

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051418\
 Data File : VX001709.D
 Acq On : 14 May 2018 13:22
 Operator : JC/MD
 Sample : VX0514WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0514WBSD01

Manual Integrations
 APPROVED

apatel
 5/16/2018 6:19:06 PM

Quant Time: May 16 03:26:51 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 07:16:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	61484	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	317753	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	284562	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	128870	28.73	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.77%
60) 4-Bromofluorobenzene	11.14	95	135554	30.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.33%
63) Toluene-d8	8.72	98	396395	31.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.13%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	69860	23.32	ug/l	99
3) Chloromethane	1.32	50	68839	20.75	ug/l	100
4) Vinyl Chloride	1.40	62	72997	21.08	ug/l	99
5) Bromomethane	1.64	94	38218	22.32	ug/l	100
6) Chloroethane	1.73	64	46403	20.12	ug/l	97
7) Trichlorofluoromethane	1.93	101	110878	22.28	ug/l	98
8) Diethyl Ether	2.19	74	44601	20.67	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	69010	24.96	ug/l	98
10) 1,1-Dichloroethene	2.38	96	60044	21.10	ug/l	96
11) Methyl Iodide	2.51	142	67528	16.33	ug/l	99
12) Methyl Acetate	2.78	43	91624	18.94	ug/l	97
13) Acrolein	2.29	56	51401	93.69	ug/l	99
14) Acrylonitrile	3.15	53	184561	95.49	ug/l	100
15) Acetone	2.45	58	54530	105.02	ug/l	95
16) Carbon Disulfide	2.57	76	147885	20.98	ug/l	100
17) Allyl chloride	2.73	41	113668	20.94	ug/l	97
18) Methylene Chloride	2.86	84	68688	20.45	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	66224	21.44	ug/l	96
20) Diisopropyl ether	3.87	45	216872	21.38	ug/l	98
21) 1,1-Dichloroethane	3.70	63	120155	20.60	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	74293	21.33	ug/l	97
23) tert-Butyl Alcohol	3.07	59	81124	94.34	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	211993	20.50	ug/l	99
25) Chloroform	5.22	83	125633	20.91	ug/l	97
26) Cyclohexane	5.58	56	104429	24.54	ug/l	# 99
29) 1,1-Dichloropropene	5.81	75	90933	22.78	ug/l	99
30) 2-Butanone	4.71	43	256949	97.54	ug/l	99
31) 2,2-Dichloropropane	4.59	77	96407	28.09	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	110320	21.73	ug/l	98
33) Carbon Tetrachloride	5.79	117	98700	22.07	ug/l	98
34) Benzene	6.15	78	274849	21.53	ug/l	99
35) Methacrylonitrile	5.06	41	54391	19.04	ug/l	96
36) 1,2-Dichloroethane	6.20	62	104721	20.74	ug/l	100
37) Trichloroethene	7.22	130	84939	22.58	ug/l	97
38) Methylcyclohexane	7.46	83	109965	25.76	ug/l	99
39) 1,2-Dichloropropane	7.52	63	66567	20.80	ug/l	100
40) Dibromomethane	7.67	93	48054	20.96	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	90297	20.93	ug/l	97
42) Vinyl Acetate	3.82	43	931143	107.17	ug/l	100
43) Ethyl Acetate	4.86	43	97141	19.35	ug/l	97
44) Isopropyl Acetate	6.47	43	150772	19.61	ug/l	98
45) 1,4-Dioxane	7.76	88	35044	388.73	ug/l	98
46) Methyl methacrylate	7.78	41	80159	19.31	ug/l	95
47) n-amyl Acetate	10.90	43	121926	18.57	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	104599	21.97	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	93917	22.32	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	73581	21.67	ug/l	97
51) Ethyl methacrylate	9.18	69	97314	19.88	ug/l	97
52) 1,3-Dichloropropane	9.38	76	115555	20.66	ug/l	98
53) Dibromochloromethane	9.59	129	71752	20.35	ug/l	99
54) 1,2-Dibromoethane	9.68	107	74516	20.81	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	269688	103.63	ug/l	99
56) Bromoform	10.86	173	56046	19.44	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	506611	98.98	ug/l	100
59) 2-Hexanone	9.50	43	365706	95.37	ug/l	99
61) Tetrachloroethene	9.34	164	99239	23.97	ug/l	98
62) Toluene	8.79	91	308087	22.51	ug/l	100
64) Chlorobenzene	10.14	112	198465	22.07	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	71177	20.94	ug/l	99
66) Ethyl Benzene	10.26	91	319151	22.47	ug/l	97
67) m/p-Xylenes	10.37	106	257587	45.41	ug/l	99
68) o-Xylene	10.70	106	122069	21.75	ug/l	99
69) Styrene	10.72	104	202906	21.91	ug/l	98
70) Isopropylbenzene	11.02	105	333206	23.05	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	95716	19.74	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	96500m	20.54	ug/l	
73) Bromobenzene	11.26	156	96237	21.97	ug/l	99
74) n-propylbenzene	11.37	91	383714	24.11	ug/l	99
75) 2-Chlorotoluene	11.43	91	224772	22.52	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	284015	23.34	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	25269	20.91	ug/l	91
78) 4-Chlorotoluene	11.51	91	260494	22.95	ug/l	100
79) tert-butylbenzene	12.07	119	314645	24.44	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	289854	23.34	ug/l	100
81) sec-Butylbenzene	11.95	105	341222	24.22	ug/l	100
82) p-Isopropyltoluene	12.07	119	314645	24.44	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	175279	22.94	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	177189	23.07	ug/l	99
85) n-Butylbenzene	12.40	91	265118	25.90	ug/l	100
86) Hexachloroethane	12.60	117	44755	21.91	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	173903	21.95	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	19937	17.65	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	135172	24.02	ug/l	99
90) Hexachlorobutadiene	13.79	225	75402	26.18	ug/l	99
91) Naphthalene	13.84	128	358304	21.26	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	139507	23.44	ug/l	99

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

