

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053018\
 Data File : VX002156.D
 Acq On : 30 May 2018 23:57
 Operator : JC/MD
 Sample : VX0530WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0530WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/31/2018 3:07:47 PM

Quant Time: May 31 04:33:17 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	50215	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	284960	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	259673	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	123194	31.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.93%
60) 4-Bromofluorobenzene	11.14	95	128861	28.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.63%
63) Toluene-d8	8.72	98	349761	30.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.73%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	47279	17.74	ug/l	100
3) Chloromethane	1.32	50	63454	20.01	ug/l	99
4) Vinyl Chloride	1.40	62	62619	19.85	ug/l	99
5) Bromomethane	1.64	94	33026	18.69	ug/l	97
6) Chloroethane	1.73	64	40966	21.95	ug/l	97
7) Trichlorofluoromethane	1.93	101	103708	21.55	ug/l	99
8) Diethyl Ether	2.19	74	40201	22.20	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	57204	22.08	ug/l	98
10) 1,1-Dichloroethene	2.37	96	52503	21.02	ug/l	99
11) Methyl Iodide	2.51	142	47240	12.04	ug/l	99
12) Methyl Acetate	2.78	43	99695	24.62	ug/l	99
13) Acrolein	2.29	56	26627	77.23	ug/l	99
14) Acrylonitrile	3.15	53	181359	108.86	ug/l	98
15) Acetone	2.45	58	47560	107.08	ug/l	90
16) Carbon Disulfide	2.57	76	116534	16.33	ug/l	99
17) Allyl chloride	2.73	41	114590	22.22	ug/l	95
18) Methylene Chloride	2.86	84	63262	22.53	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	56202	21.28	ug/l	98
20) Diisopropyl ether	3.88	45	210199	21.35	ug/l	99
21) 1,1-Dichloroethane	3.70	63	105447	20.12	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	60969	19.36	ug/l	93
23) tert-Butyl Alcohol	3.07	59	89513	103.59	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	217865	22.34	ug/l	99
25) Chloroform	5.22	83	113253	20.55	ug/l	96
26) Cyclohexane	5.57	56	88447	18.34	ug/l	# 97
29) 1,1-Dichloropropene	5.81	75	73520	18.44	ug/l	99
30) 2-Butanone	4.71	43	254885	91.66	ug/l	99
31) 2,2-Dichloropropane	4.59	77	74569	21.28	ug/l	100
32) 1,1,1-Trichloroethane	5.49	97	92331	17.73	ug/l	99
33) Carbon Tetrachloride	5.79	117	77709	16.42	ug/l	94
34) Benzene	6.15	78	233393	19.39	ug/l	99
35) Methacrylonitrile	5.07	41	56636	18.39	ug/l	95
36) 1,2-Dichloroethane	6.20	62	94584	20.17	ug/l	100
37) Trichloroethene	7.22	130	65621	19.21	ug/l	91
38) Methylcyclohexane	7.46	83	86472	18.59	ug/l	99
39) 1,2-Dichloropropane	7.52	63	63177	19.41	ug/l	100
40) Dibromomethane	7.67	93	41281	18.90	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	77581	17.12	ug/l	98
42) Vinyl Acetate	3.83	43	889224	101.07	ug/l	99
43) Ethyl Acetate	4.87	43	100091	18.34	ug/l	99
44) Isopropyl Acetate	6.47	43	165961	18.28	ug/l	100
45) 1,4-Dioxane	7.76	88	30717	355.73	ug/l #	90
46) Methyl methacrylate	7.78	41	84815	18.45	ug/l	97
47) n-amyl Acetate	10.90	43	149343	17.88	ug/l #	91
48) t-1,3-Dichloropropene	8.44	75	91799	18.03	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	84799	17.20	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	62730	20.01	ug/l	100
51) Ethyl methacrylate	9.19	69	100518	18.51	ug/l	96
52) 1,3-Dichloropropane	9.38	76	106076	20.06	ug/l	99
53) Dibromochloromethane	9.59	129	61810	16.14	ug/l	100
54) 1,2-Dibromoethane	9.68	107	65377	19.26	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	359151	140.89	ug/l	100
56) Bromoform	10.86	173	45982	13.65	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	544058	96.28	ug/l	99
59) 2-Hexanone	9.50	43	409320	93.35	ug/l	99
61) Tetrachloroethene	9.34	164	75051	18.95	ug/l	98
62) Toluene	8.79	91	261681	19.73	ug/l	99
64) Chlorobenzene	10.14	112	168279	19.61	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	62000	17.75	ug/l	100
66) Ethyl Benzene	10.26	91	287400	19.28	ug/l	99
67) m/p-Xylenes	10.37	106	219508	38.80	ug/l	100
68) o-Xylene	10.70	106	111799	19.73	ug/l	98
69) Styrene	10.71	104	180283	18.95	ug/l	100
70) Isopropylbenzene	11.02	105	294299	19.40	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	90310	18.99	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	93093m	20.79	ug/l	
73) Bromobenzene	11.26	156	79114	19.42	ug/l	98
74) n-propylbenzene	11.37	91	329784	19.47	ug/l	99
75) 2-Chlorotoluene	11.43	91	202556	19.40	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	246696	19.13	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	24088	14.85	ug/l	87
78) 4-Chlorotoluene	11.51	91	229916	19.36	ug/l	100
79) tert-butylbenzene	12.07	119	256443	18.96	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	252333	19.35	ug/l	100
81) sec-Butylbenzene	11.95	105	290272	19.20	ug/l	100
82) p-Isopropyltoluene	12.07	119	256443	18.96	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	138701	19.21	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	137652	19.15	ug/l	99
85) n-Butylbenzene	12.39	91	212256	18.71	ug/l	100
86) Hexachloroethane	12.60	117	37511	13.94	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	144994	19.50	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20513	14.81	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	99486	18.84	ug/l	100
90) Hexachlorobutadiene	13.79	225	51822	18.45	ug/l	98
91) Naphthalene	13.84	128	312903	18.78	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	103343	18.74	ug/l	99

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

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