

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002685.D
 Acq On : 18 Jun 2018 17:54
 Operator : JC/MD
 Sample : VX0618WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0618WBSD01

Manual Integrations
 APPROVED

MMDadoda
 6/19/2018 1:05:32 PM

Quant Time: Jun 19 05:27:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	42945	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	239911	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	220315	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	99705	30.40	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.33%
60) 4-Bromofluorobenzene	11.14	95	108199	29.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.13%
63) Toluene-d8	8.72	98	295378	30.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	40066	19.55	ug/l	100
3) Chloromethane	1.32	50	44436	19.97	ug/l	99
4) Vinyl Chloride	1.40	62	49861	20.11	ug/l	99
5) Bromomethane	1.64	94	31490	21.74	ug/l	97
6) Chloroethane	1.73	64	32838	19.69	ug/l	96
7) Trichlorofluoromethane	1.93	101	88479	20.08	ug/l	99
8) Diethyl Ether	2.19	74	32159	20.47	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	49811	19.75	ug/l	98
10) 1,1-Dichloroethene	2.37	96	43630	19.65	ug/l	98
11) Methyl Iodide	2.51	142	40513	15.84	ug/l	99
12) Methyl Acetate	2.78	43	80550	22.36	ug/l	98
13) Acrolein	2.30	56	21790	85.06	ug/l	98
14) Acrylonitrile	3.15	53	144652	106.75	ug/l	99
15) Acetone	2.45	58	41663	110.61	ug/l	91
16) Carbon Disulfide	2.57	76	103867	18.68	ug/l	99
17) Allyl chloride	2.73	41	87700	19.85	ug/l	95
18) Methylene Chloride	2.86	84	51607	20.31	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	47503	19.95	ug/l	98
20) Diisopropyl ether	3.88	45	160815	19.53	ug/l	98
21) 1,1-Dichloroethane	3.70	63	93174	21.05	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	51517	20.13	ug/l #	79
23) tert-Butyl Alcohol	3.08	59	69124	112.35	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	170981	20.63	ug/l	99
25) Chloroform	5.22	83	88563	19.94	ug/l	98
26) Cyclohexane	5.58	56	71902	19.12	ug/l #	94
29) 1,1-Dichloropropene	5.80	75	63542	19.61	ug/l	100
30) 2-Butanone	4.72	43	197601	106.59	ug/l	98
31) 2,2-Dichloropropane	4.59	77	67438	19.48	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	74990	19.16	ug/l	99
33) Carbon Tetrachloride	5.79	117	67346	19.14	ug/l	96
34) Benzene	6.15	78	189440	19.74	ug/l	98
35) Methacrylonitrile	5.07	41	41901	20.76	ug/l	98
36) 1,2-Dichloroethane	6.20	62	75175	19.96	ug/l	99
37) Trichloroethene	7.22	130	54825	19.51	ug/l	89
38) Methylcyclohexane	7.46	83	74903	19.00	ug/l	99
39) 1,2-Dichloropropane	7.53	63	49174	19.65	ug/l	96
40) Dibromomethane	7.67	93	34842	20.04	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	62123	19.02	ug/l	95
42) Vinyl Acetate	3.83	43	715200	101.72	ug/l	100
43) Ethyl Acetate	4.87	43	74793	21.09	ug/l	100
44) Isopropyl Acetate	6.47	43	119185	20.06	ug/l	99
45) 1,4-Dioxane	7.76	88	26135	449.05	ug/l #	86
46) Methyl methacrylate	7.79	41	61139	20.14	ug/l	97
47) n-amyl Acetate	10.90	43	104403	18.62	ug/l #	90
48) t-1,3-Dichloropropene	8.44	75	71969	18.77	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	65255	18.22	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	51863	20.22	ug/l	98
51) Ethyl methacrylate	9.19	69	74748	19.31	ug/l	95
52) 1,3-Dichloropropane	9.38	76	83488	19.93	ug/l	100
53) Dibromochloromethane	9.59	129	49582	18.21	ug/l	100
54) 1,2-Dibromoethane	9.68	107	52967	19.60	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	185754	101.01	ug/l	99
56) Bromoform	10.86	173	37291	17.16	ug/l	97
58) 4-Methyl-2-Pentanone	8.65	43	400099	106.96	ug/l	98
59) 2-Hexanone	9.50	43	305144	106.71	ug/l	100
61) Tetrachloroethene	9.34	164	60023	19.85	ug/l	96
62) Toluene	8.79	91	215047	20.25	ug/l	97
64) Chlorobenzene	10.14	112	140778	19.95	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	51147	19.78	ug/l	100
66) Ethyl Benzene	10.26	91	236841	19.80	ug/l	100
67) m/p-Xylenes	10.36	106	182083	39.18	ug/l	99
68) o-Xylene	10.70	106	89180	19.69	ug/l	98
69) Styrene	10.71	104	148017	19.59	ug/l	98
70) Isopropylbenzene	11.02	105	247139	19.79	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	75948	20.35	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	77079m	23.82	ug/l	
73) Bromobenzene	11.26	156	67291	19.38	ug/l	94
74) n-propylbenzene	11.37	91	281258	19.40	ug/l	99
75) 2-Chlorotoluene	11.43	91	166380	19.72	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	206671	19.49	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	18092	17.38	ug/l	77
78) 4-Chlorotoluene	11.51	91	193883	19.40	ug/l	98
79) tert-butylbenzene	12.07	119	226662	19.38	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	209757	19.37	ug/l	98
81) sec-Butylbenzene	11.95	105	252782	19.49	ug/l	99
82) p-Isopropyltoluene	12.07	119	226662	19.38	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	124348	19.46	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	124197	19.24	ug/l	99
85) n-Butylbenzene	12.39	91	193723	18.69	ug/l	98
86) Hexachloroethane	12.60	117	31982	18.04	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	126629	19.62	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	15707	18.84	ug/l	91
89) 1,2,4-Trichlorobenzene	13.65	180	93343	19.16	ug/l	99
90) Hexachlorobutadiene	13.79	225	48750	19.22	ug/l	98
91) Naphthalene	13.84	128	257158	19.92	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	95245	19.65	ug/l	100

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

