

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000111.D
 Acq On : 20 Feb 2018 16:30
 Operator : JC/MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:04:39 PM

Quant Time: Feb 21 06:15:19 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 05:38:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	16093	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	98850	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	92480	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	38999	31.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.27%
60) 4-Bromofluorobenzene	11.15	95	45602	30.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.00%
63) Toluene-d8	8.73	98	119971	30.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	10813	11.08	ug/l	95
3) Chloromethane	1.32	50	10854	10.72	ug/l	96
4) Vinyl Chloride	1.40	62	12845	10.80	ug/l	98
5) Bromomethane	1.65	94	11250	10.50	ug/l	98
6) Chloroethane	1.73	64	8273	11.05	ug/l	98
7) Trichlorofluoromethane	1.93	101	22198	10.93	ug/l	99
8) Diethyl Ether	2.20	74	7503	10.10	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	12577	11.19	ug/l	98
10) 1,1-Dichloroethene	2.38	96	11746	10.89	ug/l	96
11) Methyl Iodide	2.51	142	9409	10.86	ug/l	91
12) Methyl Acetate	2.79	43	20762	10.80	ug/l	98
13) Acrolein	2.30	56	11991	54.65	ug/l	97
14) Acrylonitrile	3.16	53	44608	53.44	ug/l	99
15) Acetone	2.45	58	14454	50.79	ug/l	97
16) Carbon Disulfide	2.57	76	32334	10.66	ug/l	96
17) Allyl chloride	2.73	41	19152	10.57	ug/l	99
18) Methylene Chloride	2.86	84	12950	11.27	ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	12644	10.92	ug/l	95
20) Diisopropyl ether	3.89	45	28565	10.32	ug/l #	96
21) 1,1-Dichloroethane	3.70	63	19831	10.07	ug/l	99
22) cis-1,2-Dichloroethene	4.61	96	11172	10.38	ug/l	97
23) tert-Butyl Alcohol	3.09	59	24779	51.03	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	39772	10.79	ug/l	99
25) Chloroform	5.23	83	19740	10.59	ug/l	95
26) Cyclohexane	5.58	56	15654	10.66	ug/l #	98
29) 1,1-Dichloropropene	5.81	75	14987	10.52	ug/l	98
30) 2-Butanone	4.73	43	56627	49.74	ug/l	100
31) 2,2-Dichloropropane	4.60	77	16205	10.55	ug/l	98
32) 1,1,1-Trichloroethane	5.51	97	17355	10.01	ug/l	99
33) Carbon Tetrachloride	5.79	117	15642	10.22	ug/l	95
34) Benzene	6.15	78	42670	10.25	ug/l	93
35) Methacrylonitrile	5.07	41	10420	10.27	ug/l	93
36) 1,2-Dichloroethane	6.21	62	16302	10.37	ug/l #	89
37) Trichloroethene	7.23	130	12168	9.83	ug/l	95
38) Methylcyclohexane	7.47	83	18032	10.74	ug/l	98
39) 1,2-Dichloropropane	7.53	63	10234	9.73	ug/l	99
40) Dibromomethane	7.68	93	8055	10.19	ug/l	98

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

41) Bromodichloromethane	7.91	83	15023	9.85	ug/l #	94
42) Vinyl Acetate	3.84	43	136098	49.73	ug/l	99
43) Ethyl Acetate	4.89	43	19537	9.82	ug/l	100
44) Isopropyl Acetate	6.49	43	28915	10.18	ug/l	98
45) 1,4-Dioxane	7.78	88	6905	196.28	ug/l	99
46) Methyl methacrylate	7.79	41	14400	10.38	ug/l	100
47) n-amyl Acetate	10.91	43	24367	9.98	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	17401	9.72	ug/l	96
49) cis-1,3-Dichloropropene	9.05	75	16650	9.62	ug/l	94
50) 1,1,2-Trichloroethane	9.23	97	11842	10.38	ug/l	96
51) Ethyl methacrylate	9.20	69	17795	10.24	ug/l	96
52) 1,3-Dichloropropane	9.38	76	18660	9.84	ug/l	99
53) Dibromochloromethane	9.59	129	12199	9.44	ug/l	96
54) 1,2-Dibromoethane	9.68	107	12914	9.93	ug/l	96
55) 2-Chloroethyl vinyl ether	8.32	63	40893	46.15	ug/l	99
56) Bromoform	10.87	173	9537	9.29	ug/l	99
58) 4-Methyl-2-Pentanone	8.67	43	102138	49.02	ug/l	99
59) 2-Hexanone	9.51	43	86246	48.61	ug/l	99
61) Tetrachloroethene	9.35	164	11138	9.90	ug/l	95
62) Toluene	8.79	91	49435	10.17	ug/l	99
64) Chlorobenzene	10.15	112	33092	10.21	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	11580	10.02	ug/l	99
66) Ethyl Benzene	10.26	91	56161	10.06	ug/l	95
67) m/p-Xylenes	10.37	106	43001	20.08	ug/l	100
68) o-Xylene	10.71	106	20944	9.91	ug/l	100
69) Styrene	10.72	104	34175	9.78	ug/l	99
70) Isopropylbenzene	11.02	105	56659	9.93	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.28	83	19627	9.97	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	17510m	9.68	ug/l	
73) Bromobenzene	11.26	156	14566	9.88	ug/l	98
74) n-propylbenzene	11.37	91	66112	9.89	ug/l	99
75) 2-Chlorotoluene	11.43	91	38263	9.80	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	47676	9.89	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	5607	8.89	ug/l	90
78) 4-Chlorotoluene	11.52	91	46199	10.03	ug/l	100
79) tert-butylbenzene	11.78	119	46670m	9.63	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	47897	9.59	ug/l	99
81) sec-Butylbenzene	11.96	105	58992	9.84	ug/l	100
82) p-Isopropyltoluene	12.07	119	51648	9.63	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	27627	9.74	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	28848	9.88	ug/l	99
85) n-Butylbenzene	12.40	91	49030	9.78	ug/l	99
86) Hexachloroethane	12.60	117	8435	9.61	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	26853	9.44	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	5481	10.01	ug/l	91
89) 1,2,4-Trichlorobenzene	13.65	180	19561	9.60	ug/l	99
90) Hexachlorobutadiene	13.79	225	8411	9.91	ug/l	97
91) Naphthalene	13.84	128	70233	9.61	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	19789	9.54	ug/l	99

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

