

Data Path : W:\HPCHEM1\MSVOA X\Data\VX050918\
 Data File : VX001553.D
 Acq On : 09 May 2018 13:11
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/10/2018 1:51:57 PM

Quant Time: May 10 04:37:22 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	57016	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.87	114	303914	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	283811	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	125630	30.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.83%
60) 4-Bromofluorobenzene	11.14	95	135780	28.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.20%
63) Toluene-d8	8.72	98	377704	31.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.43%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	58811	15.73	ug/l	98
3) Chloromethane	1.32	50	52905	15.16	ug/l	96
4) Vinyl Chloride	1.40	62	56867	15.54	ug/l	99
5) Bromomethane	1.64	94	38589	13.96	ug/l	99
6) Chloroethane	1.73	64	36454	16.28	ug/l	99
7) Trichlorofluoromethane	1.93	101	89932	14.79	ug/l	100
8) Diethyl Ether	2.19	74	32997	15.63	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	53450	15.50	ug/l	94
10) 1,1-Dichloroethene	2.37	96	46328	14.83	ug/l	91
11) Methyl Iodide	2.51	142	65732	17.30	ug/l	95
12) Methyl Acetate	2.78	43	74232	18.08	ug/l	99
13) Acrolein	2.29	56	14698	30.01	ug/l	98
14) Acrylonitrile	3.15	53	136922	83.79	ug/l	98
15) Acetone	2.45	58	42530	83.64	ug/l	100
16) Carbon Disulfide	2.57	76	106465	12.82	ug/l	99
17) Allyl chloride	2.73	41	84401	15.23	ug/l	91
18) Methylene Chloride	2.86	84	51774	15.21	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	49272	14.63	ug/l	94
20) Diisopropyl ether	3.87	45	164234	15.06	ug/l	97
21) 1,1-Dichloroethane	3.70	63	92880	15.85	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	55076	14.65	ug/l	96
23) tert-Butyl Alcohol	3.07	59	63044	94.40	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	158800	14.83	ug/l	97
25) Chloroform	5.21	83	96528	15.13	ug/l	95
26) Cyclohexane	5.57	56	76809	14.41	ug/l	# 96
29) 1,1-Dichloropropene	5.80	75	67740	15.04	ug/l	99
30) 2-Butanone	4.71	43	191012	82.78	ug/l	97
31) 2,2-Dichloropropane	4.59	77	72141	14.68	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	81855	15.02	ug/l	98
33) Carbon Tetrachloride	5.78	117	73338	14.94	ug/l	98
34) Benzene	6.15	78	200352	15.02	ug/l	94
35) Methacrylonitrile	5.07	41	41448	16.19	ug/l	90
36) 1,2-Dichloroethane	6.20	62	80842	15.79	ug/l	98
37) Trichloroethene	7.21	130	61982	15.32	ug/l	96
38) Methylcyclohexane	7.46	83	79854	15.07	ug/l	94
39) 1,2-Dichloropropane	7.52	63	50806	15.02	ug/l	95
40) Dibromomethane	7.67	93	36255	15.23	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	65772	14.63	ug/l	98
42) Vinyl Acetate	3.82	43	685304	75.51	ug/l	99
43) Ethyl Acetate	4.87	43	67041	15.09	ug/l	97
44) Isopropyl Acetate	6.47	43	110578	14.63	ug/l	100
45) 1,4-Dioxane	7.76	88	24368	354.58	ug/l	95
46) Methyl methacrylate	7.78	41	59422	15.11	ug/l	89
47) n-amyl Acetate	10.90	43	93358	12.87	ug/l	95
48) t-1,3-Dichloropropene	8.44	75	73752	13.93	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	68001	13.41	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	54047	15.29	ug/l	97
51) Ethyl methacrylate	9.19	69	71051	14.11	ug/l	97
52) 1,3-Dichloropropane	9.38	76	88105	15.42	ug/l	98
53) Dibromochloromethane	9.59	129	53408	13.69	ug/l	97
54) 1,2-Dibromoethane	9.68	107	55032	14.54	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	197098	79.88	ug/l	98
56) Bromoform	10.86	173	40192	12.59	ug/l #	96
58) 4-Methyl-2-Pentanone	8.65	43	374832	79.57	ug/l	99
59) 2-Hexanone	9.50	43	288022	78.48	ug/l	98
61) Tetrachloroethene	9.34	164	76046	17.48	ug/l	90
62) Toluene	8.79	91	228820	15.00	ug/l	97
64) Chlorobenzene	10.14	112	150417	14.62	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	55418	14.75	ug/l	97
66) Ethyl Benzene	10.26	91	245018	14.39	ug/l	99
67) m/p-Xylenes	10.37	106	197109	29.15	ug/l	97
68) o-Xylene	10.71	106	94223	14.41	ug/l	99
69) Styrene	10.72	104	153874	14.14	ug/l	100
70) Isopropylbenzene	11.02	105	255264	14.38	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	73561	14.13	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	63787m	13.69	ug/l	
73) Bromobenzene	11.26	156	72325	14.02	ug/l	97
74) n-propylbenzene	11.37	91	290306	14.48	ug/l	99
75) 2-Chlorotoluene	11.43	91	175515	14.50	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	217996	14.41	ug/l	65
77) t-1,4-Dichloro-2-butene	11.08	75	17480	12.61	ug/l	80
78) 4-Chlorotoluene	11.52	91	200126	13.87	ug/l	99
79) tert-butylbenzene	12.07	119	242604	14.99	ug/l	93
80) 1,2,4-Trimethylbenzene	11.81	105	221878	14.41	ug/l	99
81) sec-Butylbenzene	11.95	105	262989	14.97	ug/l	99
82) p-Isopropyltoluene	12.07	119	242604	14.99	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	133987	14.24	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	133687	13.94	ug/l	99
85) n-Butylbenzene	12.40	91	194497	13.90	ug/l	97
86) Hexachloroethane	12.60	117	33850	13.68	ug/l	73
87) 1,2-Dichlorobenzene	12.40	146	133821	14.31	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	15563	14.30	ug/l	93
89) 1,2,4-Trichlorobenzene	13.65	180	97938	13.82	ug/l	98
90) Hexachlorobutadiene	13.79	225	55613	16.90	ug/l	98
91) Naphthalene	13.84	128	263375	14.32	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	100281	14.34	ug/l	96

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

