

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001259.D
 Acq On : 30 Apr 2018 12:18
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:05 AM

Quant Time: Apr 30 13:31:32 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Apr 30 13:23:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	39917	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	217576	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	210252	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	85150	14.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	46.97%#
60) 4-Bromofluorobenzene	11.14	95	109676	15.61	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	52.03%#
63) Toluene-d8	8.72	98	268232	14.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	46.93%#

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	404235	155.62	ug/l	99
3) Chloromethane	1.32	50	369119	151.40	ug/l	97
4) Vinyl Chloride	1.41	62	375227	145.59	ug/l	100
5) Bromomethane	1.64	94	269641	136.91	ug/l	100
6) Chloroethane	1.71	64	231843	147.38	ug/l	100
7) Trichlorofluoromethane	1.92	101	627944	146.94	ug/l	100
8) Diethyl Ether	2.19	74	217793	146.75	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	347169	142.39	ug/l	94
10) 1,1-Dichloroethene	2.37	96	324065	147.77	ug/l	92
11) Methyl Iodide	2.51	142	468387	184.15	ug/l	95
12) Methyl Acetate	2.78	43	433019	150.81	ug/l	97
13) Acrolein	2.30	56	265203	155.94	ug/l	100
14) Acrylonitrile	3.16	53	876895	154.13	ug/l	100
15) Acetone	2.45	58	254383	141.25	ug/l	89
16) Carbon Disulfide	2.57	76	907969	157.74	ug/l	98
17) Allyl chloride	2.73	41	589789	152.52	ug/l	97
18) Methylene Chloride	2.86	84	340965	141.44	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	349390	147.78	ug/l	92
20) Diisopropyl ether	3.88	45	1178052	155.39	ug/l	97
21) 1,1-Dichloroethane	3.70	63	574199	137.62	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	382325	144.09	ug/l	97
23) tert-Butyl Alcohol	3.09	59	372440	161.82	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	1123968	149.87	ug/l	96
25) Chloroform	5.23	83	657964	146.61	ug/l	100
26) Cyclohexane	5.58	56	553373	147.90	ug/l	# 94
29) 1,1-Dichloropropene	5.81	75	494373	154.23	ug/l	99
30) 2-Butanone	4.71	43	1270011	154.74	ug/l	97
31) 2,2-Dichloropropane	4.59	77	537629	153.48	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	607482	157.26	ug/l	99
33) Carbon Tetrachloride	5.79	117	555923	160.31	ug/l	96
34) Benzene	6.15	78	1428898	149.50	ug/l	95
35) Methacrylonitrile	5.07	41	293873	163.13	ug/l	93
36) 1,2-Dichloroethane	6.21	62	549522	149.87	ug/l	100
37) Trichloroethene	7.22	130	426538	146.60	ug/l	97
38) Methylcyclohexane	7.46	83	579068	153.35	ug/l	96
39) 1,2-Dichloropropane	7.52	63	362694	149.66	ug/l	99
40) Dibromomethane	7.67	93	256868	150.92	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	516588	163.31	ug/l	99
42) Vinyl Acetate	3.83	43	5105717	159.05	ug/l	98
43) Ethyl Acetate	4.87	43	504473	160.89	ug/l	99
44) Isopropyl Acetate	6.47	43	872535	164.26	ug/l	98
45) 1,4-Dioxane	7.76	88	162080	168.86	ug/l	96
46) Methyl methacrylate	7.79	41	463074	168.50	ug/l	90
47) n-amyl Acetate	10.91	43	907745	182.28	ug/l	96
48) t-1,3-Dichloropropene	8.45	75	622115	168.12	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	608046	172.53	ug/l	92
50) 1,1,2-Trichloroethane	9.22	97	392085	156.20	ug/l	99
51) Ethyl methacrylate	9.19	69	606710	173.52	ug/l	93
52) 1,3-Dichloropropane	9.38	76	625866	153.75	ug/l	99
53) Dibromochloromethane	9.59	129	468200	172.68	ug/l	98
54) 1,2-Dibromoethane	9.68	107	424627	158.54	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	1379405	157.80	ug/l	100
56) Bromoform	10.87	173	420548	194.97	ug/l #	98
58) 4-Methyl-2-Pentanone	8.66	43	2809613	164.04	ug/l	99
59) 2-Hexanone	9.51	43	2184629	163.62	ug/l	97
61) Tetrachloroethene	9.34	164	438057	132.85	ug/l	91
62) Toluene	8.79	91	1688642	149.30	ug/l	99
64) Chlorobenzene	10.15	112	1142253	149.79	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	434176	157.55	ug/l	96
66) Ethyl Benzene	10.26	91	1916532	152.44	ug/l	99
67) m/p-Xylenes	10.37	106	1545095	155.29	ug/l	98
68) o-Xylene	10.71	106	749797	156.10	ug/l	100
69) Styrene	10.72	104	1289919	162.76	ug/l	99
70) Isopropylbenzene	11.02	105	2028396	155.35	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	626080	165.72	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	578376m	172.60	ug/l	
73) Bromobenzene	11.26	156	591617	156.06	ug/l	96
74) n-propylbenzene	11.37	91	2314383	157.34	ug/l	99
75) 2-Chlorotoluene	11.43	91	1382113	155.25	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	1757983	158.72	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	196359	205.29	ug/l	93
78) 4-Chlorotoluene	11.52	91	1677902	158.76	ug/l	99
79) tert-butylbenzene	12.07	119	1904557	161.23	ug/l	94
80) 1,2,4-Trimethylbenzene	11.81	105	1771202	156.71	ug/l	100
81) sec-Butylbenzene	11.95	105	2025143	157.14	ug/l	99
82) p-Isopropyltoluene	12.07	119	1904557	161.23	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	1077271	155.79	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	1108531	157.63	ug/l	99
85) n-Butylbenzene	12.40	91	1693676	167.08	ug/l	97
86) Hexachloroethane	12.60	117	322574	184.00	ug/l	70
87) 1,2-Dichlorobenzene	12.40	146	1085386	158.41	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	136444	174.88	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	836886	161.95	ug/l	98
90) Hexachlorobutadiene	13.79	225	390625	163.07	ug/l	97
91) Naphthalene	13.84	128	2210573	165.69	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	820431	160.56	ug/l	97

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

