

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001258.D
 Acq On : 30 Apr 2018 11:52
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:04 AM

Quant Time: Apr 30 13:15:32 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Apr 30 12:56:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	39948	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	219594	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	207212	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	85911	27.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.63%
60) 4-Bromofluorobenzene	11.14	95	108918	32.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	107.10%
63) Toluene-d8	8.72	98	269634	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	262842	106.02	ug/l	98
3) Chloromethane	1.32	50	226154	91.01	ug/l	97
4) Vinyl Chloride	1.40	62	245309	82.97	ug/l	99
5) Bromomethane	1.64	94	180724	66.33	ug/l	99
6) Chloroethane	1.72	64	149332	78.91	ug/l	98
7) Trichlorofluoromethane	1.93	101	408009	79.66	ug/l	99
8) Diethyl Ether	2.19	74	138892	77.65	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	226751	81.14	ug/l	94
10) 1,1-Dichloroethene	2.38	96	208414	78.08	ug/l	95
11) Methyl Iodide	2.51	142	294265	113.42	ug/l	95
12) Methyl Acetate	2.78	43	278168	58.32	ug/l	97
13) Acrolein	2.29	56	171495	298.77	ug/l	100
14) Acrylonitrile	3.15	53	558952	270.43	ug/l	99
15) Acetone	2.45	58	166008	246.35	ug/l	90
16) Carbon Disulfide	2.57	76	575553	75.39	ug/l	98
17) Allyl chloride	2.73	41	381151	83.76	ug/l	99
18) Methylene Chloride	2.86	84	220284	75.73	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	225785	77.75	ug/l	91
20) Diisopropyl ether	3.88	45	744545	103.61	ug/l	97
21) 1,1-Dichloroethane	3.70	63	374596	79.09	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	248542	92.11	ug/l	99
23) tert-Butyl Alcohol	3.07	59	231149	195.65	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	721460	78.44	ug/l	96
25) Chloroform	5.23	83	422469	89.96	ug/l	99
26) Cyclohexane	5.58	56	357058	96.15	ug/l	# 94
29) 1,1-Dichloropropene	5.81	75	320609	100.25	ug/l	99
30) 2-Butanone	4.71	43	813720	330.57	ug/l	97
31) 2,2-Dichloropropane	4.59	77	343353	99.82	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	387294	100.09	ug/l	99
33) Carbon Tetrachloride	5.79	117	355359	103.42	ug/l	97
34) Benzene	6.15	78	921201	100.11	ug/l	96
35) Methacrylonitrile	5.07	41	180746	79.75	ug/l	93
36) 1,2-Dichloroethane	6.20	62	355005	101.73	ug/l	100
37) Trichloroethene	7.22	130	275556	101.31	ug/l	96
38) Methylcyclohexane	7.47	83	374086	97.58	ug/l	96
39) 1,2-Dichloropropane	7.52	63	235166	102.36	ug/l	97
40) Dibromomethane	7.67	93	166400	94.01	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	326796	97.13	ug/l	98
42) Vinyl Acetate	3.83	43	3221747	513.49	ug/l	98
43) Ethyl Acetate	4.87	43	318106	73.57	ug/l	99
44) Isopropyl Acetate	6.47	43	550469	86.77	ug/l	98
45) 1,4-Dioxane	7.76	88	97384	1220.57	ug/l	96
46) Methyl methacrylate	7.79	41	287926	93.31	ug/l	91
47) n-amyl Acetate	10.90	43	559030	100.93	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	391429	99.94	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	380936	99.95	ug/l	94
50) 1,1,2-Trichloroethane	9.22	97	245762	94.56	ug/l	98
51) Ethyl methacrylate	9.19	69	376184	94.48	ug/l	94
52) 1,3-Dichloropropane	9.38	76	398910	95.69	ug/l	100
53) Dibromochloromethane	9.59	129	292463	101.14	ug/l	97
54) 1,2-Dibromoethane	9.68	107	268629	92.74	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	892325	513.22	ug/l	100
56) Bromoform	10.86	173	251758	107.51	ug/l #	97
58) 4-Methyl-2-Pentanone	8.66	43	1753865	386.43	ug/l	99
59) 2-Hexanone	9.51	43	1380692	359.25	ug/l	97
61) Tetrachloroethene	9.34	164	289941	115.24	ug/l	91
62) Toluene	8.79	91	1079783	100.15	ug/l	99
64) Chlorobenzene	10.15	112	723052	99.25	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	274779	106.48	ug/l	96
66) Ethyl Benzene	10.26	91	1219719	99.12	ug/l	98
67) m/p-Xylenes	10.37	106	974609	202.02	ug/l	100
68) o-Xylene	10.71	106	474602	101.28	ug/l	100
69) Styrene	10.72	104	809445	104.28	ug/l	99
70) Isopropylbenzene	11.02	105	1283275	101.31	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	389269	89.31	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	315084m	80.59	ug/l	
73) Bromobenzene	11.26	156	371385	111.84	ug/l	97
74) n-propylbenzene	11.37	91	1463869	98.60	ug/l	99
75) 2-Chlorotoluene	11.43	91	879941	103.09	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	1110033	103.41	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	116964	84.60	ug/l	92
78) 4-Chlorotoluene	11.52	91	1063697	104.02	ug/l	100
79) tert-butylbenzene	12.07	119	1188634	111.25	ug/l	94
80) 1,2,4-Trimethylbenzene	11.81	105	1119961	102.28	ug/l	99
81) sec-Butylbenzene	11.95	105	1284450	97.25	ug/l	99
82) p-Isopropyltoluene	12.07	119	1188634	100.88	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	682436	107.94	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	696268	105.67	ug/l	99
85) n-Butylbenzene	12.40	91	1056709	95.62	ug/l	98
86) Hexachloroethane	12.60	117	194677	98.91	ug/l	71
87) 1,2-Dichlorobenzene	12.40	146	682597	108.95	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	85683	70.31	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	522201	113.48	ug/l	98
90) Hexachlorobutadiene	13.79	225	240311	121.22	ug/l	97
91) Naphthalene	13.84	128	1381688	85.92	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	509134	110.05	ug/l	97

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

