

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001621.D
 Acq On : 11 May 2018 00:22
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDICC100

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:57:36 PM

Quant Time: May 11 07:10:29 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 06:59:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	57686	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	314664	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	286791	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	124256	29.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.17%
60) 4-Bromofluorobenzene	11.15	95	138687	29.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.80%
63) Toluene-d8	8.72	98	382627	30.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.67%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	316631	87.66	ug/l	99
3) Chloromethane	1.32	50	320855	92.68	ug/l	100
4) Vinyl Chloride	1.40	62	343358	94.42	ug/l	99
5) Bromomethane	1.64	94	140541	52.84	ug/l	98
6) Chloroethane	1.71	64	223243	98.09	ug/l	95
7) Trichlorofluoromethane	1.92	101	507526	85.89	ug/l	99
8) Diethyl Ether	2.19	74	207861	97.11	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	290476	86.28	ug/l	98
10) 1,1-Dichloroethene	2.37	96	286347	92.28	ug/l	99
11) Methyl Iodide	2.51	142	457812	116.58	ug/l	99
12) Methyl Acetate	2.78	43	460176	107.48	ug/l	100
13) Acrolein	2.30	56	239608	482.40	ug/l	99
14) Acrylonitrile	3.16	53	922353	540.85	ug/l	100
15) Acetone	2.45	58	245344	478.56	ug/l	99
16) Carbon Disulfide	2.56	76	766219	94.35	ug/l	99
17) Allyl chloride	2.73	41	541040	97.38	ug/l	96
18) Methylene Chloride	2.85	84	318977	93.46	ug/l	97
19) trans-1,2-Dichloroethene	3.16	96	308274	92.30	ug/l	99
20) Diisopropyl ether	3.88	45	1028799	95.00	ug/l	99
21) 1,1-Dichloroethane	3.70	63	561652	95.92	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	350157	94.19	ug/l	97
23) tert-Butyl Alcohol	3.10	59	404979	569.91	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	995257	92.81	ug/l	99
25) Chloroform	5.22	83	587192	92.45	ug/l	97
26) Cyclohexane	5.57	56	486218	94.14	ug/l	# 99
29) 1,1-Dichloropropene	5.81	75	436495	94.87	ug/l	100
30) 2-Butanone	4.72	43	1275867	517.29	ug/l	100
31) 2,2-Dichloropropane	4.59	77	354567	73.86	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	531105	94.72	ug/l	99
33) Carbon Tetrachloride	5.79	117	485154	95.92	ug/l	98
34) Benzene	6.15	78	1297125	94.35	ug/l	99
35) Methacrylonitrile	5.07	41	279107	102.30	ug/l	96
36) 1,2-Dichloroethane	6.21	62	485270	91.02	ug/l	100
37) Trichloroethene	7.22	130	390418	93.88	ug/l	100
38) Methylcyclohexane	7.46	83	506641	95.19	ug/l	97
39) 1,2-Dichloropropane	7.52	63	319364	91.65	ug/l	99
40) Dibromomethane	7.67	93	226144	91.89	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	450914	97.06	ug/l	99
42) Vinyl Acetate	3.83	43	4419062	473.48	ug/l	99
43) Ethyl Acetate	4.87	43	496726	104.20	ug/l	99
44) Isopropyl Acetate	6.48	43	790219	100.10	ug/l	99
45) 1,4-Dioxane	7.77	88	184310	2400.26	ug/l	97
46) Methyl methacrylate	7.79	41	425812	102.71	ug/l	97
47) n-amyl Acetate	10.91	43	716704	96.25	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	519007	95.93	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	465882	91.33	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	333996	91.30	ug/l	98
51) Ethyl methacrylate	9.19	69	521358	100.16	ug/l	98
52) 1,3-Dichloropropane	9.38	76	553092	93.29	ug/l	98
53) Dibromochloromethane	9.59	129	377101	94.26	ug/l	99
54) 1,2-Dibromoethane	9.68	107	357018	90.88	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	1320900	509.39	ug/l	100
56) Bromoform	10.87	173	327118	99.72	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	2628826	535.21	ug/l	97
59) 2-Hexanone	9.51	43	1967084	517.44	ug/l	99
61) Tetrachloroethene	9.34	164	444454	101.54	ug/l	98
62) Toluene	8.79	91	1453026	94.96	ug/l	100
64) Chlorobenzene	10.15	112	953380	92.54	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	361649	96.09	ug/l	100
66) Ethyl Benzene	10.26	91	1585010	93.95	ug/l	98
67) m/p-Xylenes	10.37	106	1267292	187.98	ug/l	98
68) o-Xylene	10.71	106	620517	95.36	ug/l	99
69) Styrene	10.72	104	1040033	96.01	ug/l	99
70) Isopropylbenzene	11.02	105	1644114	93.48	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	499354	94.64	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	480044m	100.89	ug/l	
73) Bromobenzene	11.26	156	471529	91.78	ug/l	99
74) n-propylbenzene	11.37	91	1860730	93.90	ug/l	99
75) 2-Chlorotoluene	11.43	91	1100665	91.35	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	1384543	92.41	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	146748	104.69	ug/l	87
78) 4-Chlorotoluene	11.52	91	1276649	89.74	ug/l	100
79) tert-butylbenzene	12.07	119	1543787	96.42	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	1408420	92.58	ug/l	99
81) sec-Butylbenzene	11.95	105	1675971	96.46	ug/l	100
82) p-Isopropyltoluene	12.07	119	1543787	96.42	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	850062	91.37	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	861950	91.26	ug/l	99
85) n-Butylbenzene	12.40	91	1305240	95.54	ug/l	99
86) Hexachloroethane	12.60	117	255571	103.72	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	863818	92.78	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	123188	109.45	ug/l	93
89) 1,2,4-Trichlorobenzene	13.65	180	668471	96.24	ug/l	99
90) Hexachlorobutadiene	13.79	225	346730	104.03	ug/l	98
91) Naphthalene	13.84	128	1913052	103.45	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	676755	97.21	ug/l	100

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

