

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008160.D
 Acq On : 18 Mar 2019 11:17
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:36:55 AM

Quant Time: Mar 18 11:57:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 11:50:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	55561	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	308466	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	274421	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	136659	28.76	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.87%
60) 4-Bromofluorobenzene	11.13	95	137455	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	8.71	98	400198	29.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	114958	47.389	ug/l 97
3) Chloromethane	1.33	50	141468	47.151	ug/l 95
4) Vinyl Chloride	1.41	62	147076	47.317	ug/l 99
5) Bromomethane	1.64	94	129414	62.977	ug/l 98
6) Chloroethane	1.72	64	90415	48.285	ug/l 98
7) Trichlorofluoromethane	1.93	101	178906	47.275	ug/l 98
8) Diethyl Ether	2.19	74	101823	46.640	ug/l 83
9) 1,1,2-Trichlorotrifluoroet	2.39	101	128475	47.610	ug/l 92
10) 1,1-Dichloroethene	2.37	96	122183	47.797	ug/l # 82
11) Methyl Iodide	2.51	142	161752	53.572	ug/l 97
12) Methyl Acetate	2.78	43	203660	47.870	ug/l 92
13) Acrolein	2.29	56	139321	231.708	ug/l 98
14) Acrylonitrile	3.14	53	444580	238.202	ug/l 98
15) Acetone	2.45	58	144635	219.690	ug/l 91
16) Carbon Disulfide	2.57	76	393443	48.853	ug/l 99
17) Allyl chloride	2.73	41	270120	49.898	ug/l 95
18) Methylene Chloride	2.86	84	141403	47.034	ug/l 89
19) trans-1,2-Dichloroethene	3.17	96	132256	48.149	ug/l 90
20) Diisopropyl ether	3.85	45	530429	48.711	ug/l # 85
21) 1,1-Dichloroethane	3.70	63	266658	47.654	ug/l 96
22) cis-1,2-Dichloroethene	4.60	96	149841	47.795	ug/l # 83
23) tert-Butyl Alcohol	3.05	59	164385	238.610	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	444239	48.105	ug/l 98
25) Chloroform	5.21	83	252821	47.260	ug/l 95
26) Cyclohexane	5.58	56	257130	49.453	ug/l # 85
29) 1,1-Dichloropropene	5.80	75	195613	49.693	ug/l 93
30) 2-Butanone	4.68	43	701695	235.699	ug/l 94
31) 2,2-Dichloropropane	4.59	77	198441	50.466	ug/l 93
32) 1,1,1-Trichloroethane	5.49	97	208720	49.483	ug/l 95
33) Carbon Tetrachloride	5.79	117	176540	51.253	ug/l 97
34) Benzene	6.14	78	588438	49.084	ug/l # 96
35) Methacrylonitrile	5.04	41	136885	50.423	ug/l 93
36) 1,2-Dichloroethane	6.20	62	212360	48.153	ug/l 97
37) Trichloroethene	7.21	130	140572	49.798	ug/l 86
38) Methylcyclohexane	7.46	83	240576	50.643	ug/l 90
39) 1,2-Dichloropropane	7.51	63	161370	49.503	ug/l 99
40) Dibromomethane	7.66	93	97699	49.032	ug/l 90

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

41) Bromodichloromethane	7.90	83	190911	49.860	ug/l	97
42) Vinyl Acetate	3.82	43	2338469m	249.854	ug/l	
43) Ethyl Acetate	4.84	43	245696	48.208	ug/l #	83
44) Isopropyl Acetate	6.45	43	384930	50.836	ug/l	97
45) 1,4-Dioxane	7.74	88	70783	981.866	ug/l #	85
46) Methyl methacrylate	7.77	41	203800	50.700	ug/l	89
47) n-amyl Acetate	10.90	43	333607	50.845	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	217966	53.632	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	239109	52.342	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	142330	49.634	ug/l	97
51) Ethyl methacrylate	9.18	69	235262	51.366	ug/l	91
52) 1,3-Dichloropropane	9.37	76	253176	48.524	ug/l	98
53) Dibromochloromethane	9.58	129	140218	51.214	ug/l	99
54) 1,2-Dibromoethane	9.67	107	147682	48.086	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	857751	250.977	ug/l	95
56) Bromoform	10.85	173	102118	52.599	ug/l #	99
58) 4-Methyl-2-Pentanone	8.64	43	1268252	242.784	ug/l	96
59) 2-Hexanone	9.49	43	996816	234.182	ug/l	97
61) Tetrachloroethene	9.34	164	129802	48.024	ug/l	95
62) Toluene	8.78	91	618791	49.085	ug/l	98
64) Chlorobenzene	10.13	112	368372	48.843	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	131238	50.674	ug/l	98
66) Ethyl Benzene	10.25	91	665076	50.132	ug/l	96
67) m/p-Xylenes	10.36	106	492444	100.412	ug/l	91
68) o-Xylene	10.69	106	237459	50.173	ug/l	91
69) Styrene	10.71	104	387686	50.451	ug/l	96
70) Isopropylbenzene	11.02	105	639362	50.076	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	222420	47.771	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	196126m	48.116	ug/l	
73) Bromobenzene	11.26	156	148948	49.444	ug/l	79
74) n-propylbenzene	11.36	91	757649	50.885	ug/l	94
75) 2-Chlorotoluene	11.42	91	441691	49.364	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	529482	50.214	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	71672	53.824	ug/l	93
78) 4-Chlorotoluene	11.51	91	508942	50.210	ug/l	92
79) tert-butylbenzene	12.06	119	547446	51.876	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	538012	50.719	ug/l	95
81) sec-Butylbenzene	11.94	105	633634	50.671	ug/l	96
82) p-Isopropyltoluene	12.06	119	547446	51.876	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	268200	49.434	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	266587	50.675	ug/l	96
85) n-Butylbenzene	12.38	91	510719	53.382	ug/l	97
86) Hexachloroethane	12.60	117	93009	52.142	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	266003	49.308	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	48772	50.127	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.65	180	175081	51.897	ug/l	98
90) Hexachlorobutadiene	13.78	225	90261	51.946	ug/l	98
91) Naphthalene	13.83	128	569294	51.395	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	174066	51.545	ug/l	99

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

