

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051834.D
 Acq On : 12 Oct 2018 15:50
 Operator : MD\SY
 Sample : J5164-08 10ppb
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:59 AM

Quant Time: Oct 13 03:31:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	129602	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	738893	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	643005	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	252122	31.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.57%
60) 4-Bromofluorobenzene	12.40	95	263153	28.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.60%
63) Toluene-d8	10.09	98	861369	30.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.83%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	52511	10.43	ug/l	99
3) Chloromethane	2.06	50	59436	11.17	ug/l	99
4) Vinyl Chloride	2.18	62	87604	11.02	ug/l	99
5) Bromomethane	2.56	94	81580	11.62	ug/l	90
6) Chloroethane	2.70	64	66442	11.60	ug/l	96
7) Trichlorofluoromethane	3.01	101	130425	11.51	ug/l	94
8) Diethyl Ether	3.41	74	36769	11.15	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	3.76	101	72869	11.29	ug/l #	41
10) 1,1-Dichloroethene	3.73	96	66196	11.09	ug/l	83
11) Methyl Iodide	3.95	142	84841	9.78	ug/l	96
12) Methyl Acetate	4.33	43	44653	12.05	ug/l	99
13) Acrolein	3.62	56	17783	72.84	ug/l	97
14) Acrylonitrile	4.99	53	89734	54.19	ug/l #	61
15) Acetone	3.82	58	20710	50.59	ug/l	96
16) Carbon Disulfide	4.05	76	155388	9.92	ug/l	99
17) Allyl chloride	4.32	41	71216	10.05	ug/l	83
18) Methylene Chloride	4.55	84	75685	11.34	ug/l	90
19) trans-1,2-Dichloroethene	5.04	96	74648	10.96	ug/l #	81
20) Diisopropyl ether	5.95	45	169145	10.72	ug/l #	87
21) 1,1-Dichloroethane	5.85	63	121369	11.01	ug/l #	96
22) cis-1,2-Dichloroethene	6.83	96	87324	10.91	ug/l #	80
23) tert-Butyl Alcohol	4.80	59	23149	53.08	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	191603	11.15	ug/l #	88
25) Chloroform	7.37	83	141462	10.82	ug/l	94
26) Cyclohexane	7.65	56	101033	10.81	ug/l #	74
29) 1,1-Dichloropropene	7.79	75	98564	10.35	ug/l	94
30) 2-Butanone	6.84	43	104721	52.60	ug/l #	90
31) 2,2-Dichloropropane	6.83	77	106272	9.48	ug/l #	78
32) 1,1,1-Trichloroethane	7.57	97	128560	10.18	ug/l	95
33) Carbon Tetrachloride	7.77	117	115497	10.11	ug/l	95
34) Benzene	8.04	78	300493	10.67	ug/l #	76
35) Methacrylonitrile	7.18	41	26489m	10.13	ug/l	
36) 1,2-Dichloroethane	8.13	62	99375	11.01	ug/l	98
37) Trichloroethene	8.84	130	91221	10.43	ug/l	96
38) Methylcyclohexane	9.08	83	123637	10.12	ug/l	82
39) 1,2-Dichloropropane	9.12	63	70080	10.56	ug/l	94
40) Dibromomethane	9.21	93	52852	10.73	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	99890	9.82	ug/l	94
42) Vinyl Acetate	5.90	43	585783	52.27	ug/l #	91
43) Ethyl Acetate	6.94	43	39304	9.09	ug/l	99
44) Isopropyl Acetate	8.17	43	90051	10.43	ug/l	99
45) 1,4-Dioxane	9.20	88	14492	209.04	ug/l #	70
46) Methyl methacrylate	9.20	41	42111	10.57	ug/l	77
47) n-amyl Acetate	12.07	43	63393m	8.77	ug/l	
48) t-1,3-Dichloropropene	10.38	75	93018	9.38	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	105445	9.64	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	71594	10.52	ug/l	95
51) Ethyl methacrylate	10.43	69	78885	10.13	ug/l	82
52) 1,3-Dichloropropane	10.71	76	109528	10.43	ug/l	100
53) Dibromochloromethane	10.90	129	77813	9.25	ug/l	97
54) 1,2-Dibromoethane	11.01	107	72345	10.13	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	163810	49.19	ug/l #	94
56) Bromoform	12.13	173	45929	8.27	ug/l #	91
58) 4-Methyl-2-Pentanone	9.99	43	237902	55.29	ug/l #	88
59) 2-Hexanone	10.75	43	144572	49.80	ug/l #	91
61) Tetrachloroethene	10.63	164	91881	11.17	ug/l	96
62) Toluene	10.16	91	340792	10.67	ug/l	96
64) Chlorobenzene	11.43	112	216222	10.34	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	80534	10.03	ug/l	98
66) Ethyl Benzene	11.51	91	369898	10.48	ug/l	99
67) m/p-Xylenes	11.62	106	292785	20.46	ug/l	100
68) o-Xylene	11.95	106	145723	10.33	ug/l	91
69) Styrene	11.97	104	208743	9.64	ug/l	97
70) Isopropylbenzene	12.25	105	390447	10.38	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	78634	10.58	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	65827m	11.26	ug/l	
73) Bromobenzene	12.53	156	88680	9.51	ug/l	86
74) n-propylbenzene	12.59	91	401926	9.93	ug/l	97
75) 2-Chlorotoluene	12.67	91	242633	10.23	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	309759	9.96	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	15130	7.83	ug/l	96
78) 4-Chlorotoluene	12.77	91	222851	9.56	ug/l	93
79) tert-butylbenzene	12.99	119	292698	10.23	ug/l	94
80) 1,2,4-Trimethylbenzene	13.04	105	309723	9.96	ug/l	98
81) sec-Butylbenzene	13.17	105	367338	9.81	ug/l	97
82) p-Isopropyltoluene	13.29	119	320420	9.57	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	147212	8.95	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	131262	8.48	ug/l	98
85) n-Butylbenzene	13.62	91	224288	8.88	ug/l	96
86) Hexachloroethane	13.88	117	50030	8.66	ug/l	88
87) 1,2-Dichlorobenzene	13.65	146	146628	9.21	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10718	9.66	ug/l #	90
89) 1,2,4-Trichlorobenzene	14.91	180	45515	12.06	ug/l	96
90) Hexachlorobutadiene	15.01	225	49591	9.67	ug/l	97
91) Naphthalene	15.13	128	93324	12.82	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	50398	6.96	ug/l	91

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

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