

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051827.D
 Acq On : 12 Oct 2018 9:52
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:51 AM

Quant Time: Oct 12 10:24:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 09:52:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	165680	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	906239	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	856949	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	281343	27.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	91.43%
60) 4-Bromofluorobenzene	12.40	95	392208	32.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	107.37%
63) Toluene-d8	10.09	98	1080092	28.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.97%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	1027906	162.32	ug/l	100
3) Chloromethane	2.06	50	969414	140.74	ug/l	99
4) Vinyl Chloride	2.18	62	1455608	141.70	ug/l	98
5) Bromomethane	2.55	94	1300544	143.67	ug/l	86
6) Chloroethane	2.69	64	1014865	136.04	ug/l	100
7) Trichlorofluoromethane	3.01	101	2181965	150.81	ug/l	96
8) Diethyl Ether	3.41	74	617211	145.51	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1190715m	143.01	ug/l	
10) 1,1-Dichloroethene	3.73	96	1109739	144.39	ug/l	84
11) Methyl Iodide	3.95	142	1868488	173.86	ug/l	94
12) Methyl Acetate	4.33	43	706667	148.99	ug/l	90
13) Acrolein	3.61	56	222588	704.58	ug/l	90
14) Acrylonitrile	4.99	53	1603102	759.07	ug/l #	61
15) Acetone	3.82	58	370978	699.29	ug/l	99
16) Carbon Disulfide	4.05	76	3100631	156.01	ug/l	98
17) Allyl chloride	4.32	41	1308945	143.23	ug/l	75
18) Methylene Chloride	4.55	84	1256876	146.72	ug/l #	87
19) trans-1,2-Dichloroethene	5.04	96	1298645	148.87	ug/l	81
20) Diisopropyl ether	5.96	45	2894389	141.97	ug/l #	79
21) 1,1-Dichloroethane	5.85	63	2004203	140.39	ug/l #	97
22) cis-1,2-Dichloroethene	6.83	96	1500715	145.88	ug/l #	80
23) tert-Butyl Alcohol	4.79	59	422436	759.58	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	3215800	145.43	ug/l #	68
25) Chloroform	7.37	83	2431522	144.33	ug/l	97
26) Cyclohexane	7.65	56	1670821	137.51	ug/l #	69
29) 1,1-Dichloropropene	7.79	75	1755159	150.31	ug/l	94
30) 2-Butanone	6.84	43	1775125	721.52	ug/l #	85
31) 2,2-Dichloropropane	6.83	77	2010031	145.37	ug/l #	77
32) 1,1,1-Trichloroethane	7.57	97	2343847	151.68	ug/l #	93
33) Carbon Tetrachloride	7.77	117	2174707	156.56	ug/l	92
34) Benzene	8.04	78	5163962m	149.31	ug/l	
35) Methacrylonitrile	7.19	41	532125m	170.40	ug/l	
36) 1,2-Dichloroethane	8.13	62	1638042m	147.56	ug/l	
37) Trichloroethene	8.83	130	1635182	153.07	ug/l	95
38) Methylcyclohexane	9.08	83	2243129	149.64	ug/l	78
39) 1,2-Dichloropropane	9.12	63	1187651	144.97	ug/l	96
40) Dibromomethane	9.21	93	925370	154.05	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1936083	156.56	ug/l	95
42) Vinyl Acetate	5.90	43	10491218	766.71	ug/l #	87
43) Ethyl Acetate	6.93	43	809894	153.47	ug/l	98
44) Isopropyl Acetate	8.17	43	1607103	152.22	ug/l	96
45) 1,4-Dioxane	9.20	88	275517	3306.58	ug/l #	73
46) Methyl methacrylate	9.20	41	756467	156.15	ug/l	71
47) n-amyl Acetate	12.07	43	1525163m	178.62	ug/l	
48) t-1,3-Dichloropropene	10.38	75	1975096	165.77	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	2121202	160.36	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	1304526	158.00	ug/l	94
51) Ethyl methacrylate	10.43	69	1541507	164.47	ug/l	84
52) 1,3-Dichloropropane	10.71	76	1960999	152.84	ug/l	98
53) Dibromochloromethane	10.90	129	1735729	173.38	ug/l	96
54) 1,2-Dibromoethane	11.01	107	1411619	164.22	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	3428186	865.20	ug/l #	92
56) Bromoform	12.13	173	1270246	198.69	ug/l	95
58) 4-Methyl-2-Pentanone	9.99	43	4226328	733.80	ug/l #	85
59) 2-Hexanone	10.75	43	2875674	741.64	ug/l #	89
61) Tetrachloroethene	10.63	164	1601840	145.24	ug/l	97
62) Toluene	10.16	91	6387570	150.05	ug/l	98
64) Chlorobenzene	11.43	112	4322206	156.33	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	1686097	159.56	ug/l	100
66) Ethyl Benzene	11.51	91	7174852	153.13	ug/l	98
67) m/p-Xylenes	11.62	106	5954701	315.37	ug/l	95
68) o-Xylene	11.95	106	2908443	155.88	ug/l	88
69) Styrene	11.96	104	4763408	169.36	ug/l	96
70) Isopropylbenzene	12.25	105	7791611	156.78	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	1540759	157.04	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	1270952m	144.49	ug/l	
73) Bromobenzene	12.53	156	2088262	173.36	ug/l	78
74) n-propylbenzene	12.59	91	8548835	160.76	ug/l	93
75) 2-Chlorotoluene	12.68	91	4915138	156.85	ug/l	91
76) 1,3,5-Trimethylbenzene	12.73	105	6569781	160.69	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	469091	192.33	ug/l	90
78) 4-Chlorotoluene	12.77	91	5063845	166.59	ug/l	89
79) tert-butylbenzene	12.99	119	5883458	155.39	ug/l	93
80) 1,2,4-Trimethylbenzene	13.04	105	6612514	162.13	ug/l	96
81) sec-Butylbenzene	13.17	105	7882314	160.14	ug/l	95
82) p-Isopropyltoluene	13.29	119	7308323	167.54	ug/l	95
83) 1,3-Dichlorobenzene	13.28	146	3829843	182.26	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	3706826	188.99	ug/l	99
85) n-Butylbenzene	13.62	91	5793053	178.67	ug/l	93
86) Hexachloroethane	13.88	117	1284941	171.78	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	3614733	176.34	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	243187	168.49	ug/l #	64
89) 1,2,4-Trichlorobenzene	14.91	180	2038341	227.38	ug/l	99
90) Hexachlorobutadiene	15.01	225	1076296	159.36	ug/l	97
91) Naphthalene	15.13	128	4225949	233.74	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	1897501	213.08	ug/l	93

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

