

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051676.D
 Acq On : 5 Oct 2018 10:25
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 10/8/2018 3:58:48 PM

Quant Time: Oct 05 10:55:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 10:47:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	124732	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	729596	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	741008	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	264556	31.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.33%
60) 4-Bromofluorobenzene	12.40	95	367729	32.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	109.57%
63) Toluene-d8	10.09	98	953802	26.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	89.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	737364	121.615	ug/l 99
3) Chloromethane	2.06	50	717182	67.994	ug/l 98
4) Vinyl Chloride	2.18	62	1101385	97.086	ug/l 100
5) Bromomethane	2.56	94	855943	116.062	ug/l 88
6) Chloroethane	2.70	64	732686	104.210	ug/l 99
7) Trichlorofluoromethane	3.01	101	1624593	109.488	ug/l 94
8) Diethyl Ether	3.41	74	331796	75.399	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	3.76	101	608587	81.185	ug/l # 41
10) 1,1-Dichloroethene	3.73	96	561959	82.037	ug/l 91
11) Methyl Iodide	3.95	142	847958	82.898	ug/l 93
12) Methyl Acetate	4.33	43	459146	76.792	ug/l 99
13) Acrolein	3.61	56	164287	201.413	ug/l 89
14) Acrylonitrile	4.99	53	969577	395.944	ug/l # 61
15) Acetone	3.82	58	207179	346.943	ug/l 82
16) Carbon Disulfide	4.05	76	1647726	76.274	ug/l 99
17) Allyl chloride	4.32	41	860375	71.612	ug/l 80
18) Methylene Chloride	4.55	84	655483	79.950	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	661106	88.642	ug/l 90
20) Diisopropyl ether	5.96	45	1927316	78.836	ug/l # 84
21) 1,1-Dichloroethane	5.85	63	1201916	82.444	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	767403	91.635	ug/l 90
23) tert-Butyl Alcohol	4.79	59	261747	571.465	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1868782	100.034	ug/l # 58
25) Chloroform	7.37	83	1352235	92.704	ug/l 94
26) Cyclohexane	7.65	56	1025996	82.813	ug/l # 81
29) 1,1-Dichloropropene	7.79	75	985435	81.370	ug/l 97
30) 2-Butanone	6.84	43	1120428	363.894	ug/l # 93
31) 2,2-Dichloropropane	6.83	77	1128849	87.439	ug/l # 80
32) 1,1,1-Trichloroethane	7.57	97	1294252	93.583	ug/l 97
33) Carbon Tetrachloride	7.78	117	1185607	93.922	ug/l 93
34) Benzene	8.04	78	3046661	84.503	ug/l # 61
35) Methacrylonitrile	7.17	41	251360m	64.644	ug/l
36) 1,2-Dichloroethane	8.12	62	1013222	87.203	ug/l 98
37) Trichloroethene	8.84	130	815106	85.677	ug/l 99
38) Methylcyclohexane	9.08	83	1231422	88.797	ug/l 84
39) 1,2-Dichloropropane	9.12	63	723483	73.770	ug/l 98
40) Dibromomethane	9.21	93	508205	91.059	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1119971	91.501	ug/l	95
42) Vinyl Acetate	5.90	43	7073708	408.790	ug/l #	93
43) Ethyl Acetate	6.93	43	513171	79.169	ug/l	99
44) Isopropyl Acetate	8.17	43	1113900	89.707	ug/l	100
45) 1,4-Dioxane	9.20	88	145932	1921.844	ug/l #	81
46) Methyl methacrylate	9.20	41	504802	81.887	ug/l	83
47) n-amyl Acetate	12.07	43	1038162m	105.231	ug/l	
48) t-1,3-Dichloropropene	10.38	75	1236727	102.656	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	1259893	89.531	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	756860	95.127	ug/l	96
51) Ethyl methacrylate	10.43	69	979719	105.159	ug/l	86
52) 1,3-Dichloropropane	10.71	76	1180290	87.870	ug/l	97
53) Dibromochloromethane	10.90	129	1032149	112.776	ug/l	96
54) 1,2-Dibromoethane	11.01	107	819626	107.263	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	1931915	415.782	ug/l	95
56) Bromoform	12.13	173	785520	128.079	ug/l	94
58) 4-Methyl-2-Pentanone	9.99	43	2854215	372.611	ug/l #	90
59) 2-Hexanone	10.75	43	1921900	385.358	ug/l #	92
61) Tetrachloroethene	10.63	164	826885	81.396	ug/l	96
62) Toluene	10.16	91	3772075	84.329	ug/l	98
64) Chlorobenzene	11.43	112	2468088	90.163	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	1016109	95.870	ug/l	99
66) Ethyl Benzene	11.51	91	4320053	93.984	ug/l	99
67) m/p-Xylenes	11.62	106	3558696	199.132	ug/l	98
68) o-Xylene	11.95	106	1735741	102.202	ug/l	91
69) Styrene	11.96	104	2856496	106.202	ug/l	98
70) Isopropylbenzene	12.25	105	4730271	103.905	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	972857	92.154	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	754728m	82.549	ug/l	
73) Bromobenzene	12.53	156	1181997	103.998	ug/l	86
74) n-propylbenzene	12.59	91	5240522	99.412	ug/l	95
75) 2-Chlorotoluene	12.68	91	3069078	98.450	ug/l	94
76) 1,3,5-Trimethylbenzene	12.73	105	4030074	107.024	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	308237	108.148	ug/l	92
78) 4-Chlorotoluene	12.77	91	3166632	102.272	ug/l	93
79) tert-butylbenzene	12.99	119	3557442	109.071	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	4051147	106.664	ug/l	97
81) sec-Butylbenzene	13.17	105	4790288	106.585	ug/l	97
82) p-Isopropyltoluene	13.29	119	4343816	111.861	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	2175651	109.138	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	2111634	112.607	ug/l	98
85) n-Butylbenzene	13.62	91	3507880	111.484	ug/l	94
86) Hexachloroethane	13.88	117	843244	109.358	ug/l	89
87) 1,2-Dichlorobenzene	13.65	146	2105068	110.319	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	166067	107.292	ug/l #	80
89) 1,2,4-Trichlorobenzene	14.91	180	1061705	115.063	ug/l	98
90) Hexachlorobutadiene	15.01	225	605845	83.511	ug/l	97
91) Naphthalene	15.13	128	2261547	133.419	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	996846	107.143	ug/l	93

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

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