

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051476.D
 Acq On : 25 Sep 2018 10:49
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:21:28 AM

Quant Time: Sep 26 01:48:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	115740	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	624888	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	567418	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	229617	28.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.10%
60) 4-Bromofluorobenzene	12.40	95	266309	31.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.57%
63) Toluene-d8	10.09	98	791833	29.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	708798	142.989	ug/l 99
3) Chloromethane	2.06	50	1297480	152.235	ug/l 97
4) Vinyl Chloride	2.18	62	1430829	157.336	ug/l 100
5) Bromomethane	2.55	94	913775	153.737	ug/l 87
6) Chloroethane	2.70	64	900426	160.632	ug/l 99
7) Trichlorofluoromethane	3.01	101	1940880	164.422	ug/l 95
8) Diethyl Ether	3.41	74	584507	164.694	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	960422	160.223	ug/l # 41
10) 1,1-Dichloroethene	3.73	96	917543	168.044	ug/l 97
11) Methyl Iodide	3.95	142	1500215	186.325	ug/l 96
12) Methyl Acetate	4.32	43	795824	165.828	ug/l 91
13) Acrolein	3.61	56	599169	936.308	ug/l 90
14) Acrylonitrile	4.99	53	1730792	887.838	ug/l # 60
15) Acetone	3.82	58	384942	801.749	ug/l 96
16) Carbon Disulfide	4.05	76	2806300	162.038	ug/l 97
17) Allyl chloride	4.32	41	1693575	175.704	ug/l 98
18) Methylene Chloride	4.55	84	1055905	161.930	ug/l 95
19) trans-1,2-Dichloroethene	5.04	96	1004528	169.953	ug/l 98
20) Diisopropyl ether	5.95	45	3367897	175.975	ug/l # 82
21) 1,1-Dichloroethane	5.85	63	1928222	167.260	ug/l 95
22) cis-1,2-Dichloroethene	6.83	96	1154304	174.526	ug/l 96
23) tert-Butyl Alcohol	4.79	59	332025	904.434	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	2657719	178.717	ug/l # 64
25) Chloroform	7.37	83	1912047	166.287	ug/l 96
26) Cyclohexane	7.65	56	1790934	182.474	ug/l 97
29) 1,1-Dichloropropene	7.79	75	1533915	174.337	ug/l 100
30) 2-Butanone	6.84	43	1935843	851.768	ug/l # 99
31) 2,2-Dichloropropane	6.83	77	1576623	167.991	ug/l # 80
32) 1,1,1-Trichloroethane	7.57	97	1691769	168.425	ug/l 98
33) Carbon Tetrachloride	7.78	117	1560035	169.264	ug/l 92
34) Benzene	8.04	78	4408899	168.780	ug/l # 61
35) Methacrylonitrile	7.17	41	543973	166.094	ug/l 90
36) 1,2-Dichloroethane	8.13	62	1407985	165.532	ug/l 98
37) Trichloroethene	8.84	130	1170856	169.114	ug/l 99
38) Methylcyclohexane	9.08	83	1885609	184.874	ug/l 92
39) 1,2-Dichloropropane	9.12	63	1187652	167.130	ug/l 97
40) Dibromomethane	9.21	93	675374	166.983	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1513432	170.196	ug/l	95
42) Vinyl Acetate	5.90	43	11556410	914.441	ug/l	98
43) Ethyl Acetate	6.93	43	883307	186.792	ug/l	99
44) Isopropyl Acetate	8.17	43	1626656	178.854	ug/l	99
45) 1,4-Dioxane	9.20	88	197773	3574.362	ug/l	91
46) Methyl methacrylate	9.20	41	843271	187.232	ug/l	97
47) n-amyl Acetate	12.07	43	1444807	198.799	ug/l #	76
48) t-1,3-Dichloropropene	10.38	75	1625477	184.085	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	1838229	179.848	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	958078	165.673	ug/l	94
51) Ethyl methacrylate	10.43	69	1299755	189.908	ug/l	98
52) 1,3-Dichloropropane	10.71	76	1672039	171.384	ug/l	97
53) Dibromochloromethane	10.90	129	1167935	175.578	ug/l	97
54) 1,2-Dibromoethane	11.00	107	967465	173.387	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	3246548	960.633	ug/l	100
56) Bromoform	12.13	173	796566	177.622	ug/l	94
58) 4-Methyl-2-Pentanone	9.99	43	4328833	868.088	ug/l	95
59) 2-Hexanone	10.75	43	2867236	873.625	ug/l	94
61) Tetrachloroethene	10.63	164	1086131	164.530	ug/l	96
62) Toluene	10.16	91	4881034	168.034	ug/l	98
64) Chlorobenzene	11.43	112	3057100	171.656	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	1158551	168.257	ug/l	99
66) Ethyl Benzene	11.51	91	5424150	181.004	ug/l	98
67) m/p-Xylenes	11.62	106	4151772	359.881	ug/l	98
68) o-Xylene	11.95	106	1990991	181.201	ug/l	95
69) Styrene	11.96	104	3243914	186.896	ug/l	99
70) Isopropylbenzene	12.25	105	5376373	182.832	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	1144591	165.352	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	961084m	176.065	ug/l	
73) Bromobenzene	12.53	156	1316673	177.666	ug/l	96
74) n-propylbenzene	12.59	91	6502745	190.214	ug/l	99
75) 2-Chlorotoluene	12.67	91	3607798	178.826	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	4471683	184.292	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	376539	200.019	ug/l	93
78) 4-Chlorotoluene	12.77	91	3698450	184.827	ug/l	97
79) tert-butylbenzene	12.99	119	3865096	182.955	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	4540828	186.156	ug/l	98
81) sec-Butylbenzene	13.17	105	5389271	185.446	ug/l	99
82) p-Isopropyltoluene	13.29	119	4818251	192.060	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	2392993	184.092	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	2327163	190.618	ug/l	97
85) n-Butylbenzene	13.61	91	4185367	203.196	ug/l	95
86) Hexachloroethane	13.87	117	880963	175.243	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	2231505	181.088	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	182806	178.936	ug/l #	87
89) 1,2,4-Trichlorobenzene	14.91	180	1404289	228.786	ug/l	98
90) Hexachlorobutadiene	15.01	225	808214	169.896	ug/l	97
91) Naphthalene	15.13	128	2755315	237.896	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	1315501	212.302	ug/l	93

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

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