

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050040.D
 Acq On : 25 Jul 2018 10:11
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:02 PM

Quant Time: Jul 26 15:14:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 12:20:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	143496	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	753310	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	694905	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	285342	28.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.97%
60) 4-Bromofluorobenzene	12.40	95	336450	31.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.30%
63) Toluene-d8	10.09	98	959006	28.14	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	1492805	133.73	ug/l	97
3) Chloromethane	2.05	50	1510350	141.52	ug/l	100
4) Vinyl Chloride	2.18	62	1582793	138.08	ug/l	97
5) Bromomethane	2.54	94	924365	134.50	ug/l	100
6) Chloroethane	2.69	64	905070	134.54	ug/l	99
7) Trichlorofluoromethane	3.00	101	2006746	131.78	ug/l	100
8) Diethyl Ether	3.41	74	723248	154.37	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	1210909	130.30	ug/l	99
10) 1,1-Dichloroethene	3.73	96	1145747	143.41	ug/l	95
11) Methyl Iodide	3.95	142	1806715	158.45	ug/l	99
12) Methyl Acetate	4.33	43	1338990	146.41	ug/l	99
13) Acrolein	3.61	56	384993	797.27	ug/l	99
14) Acrylonitrile	4.99	53	2329844	801.83	ug/l	99
15) Acetone	3.82	58	558433	681.48	ug/l	99
16) Carbon Disulfide	4.05	76	3449264	142.41	ug/l	100
17) Allyl chloride	4.32	41	1904819	157.72	ug/l	98
18) Methylene Chloride	4.55	84	1268988	138.70	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	1218412	143.01	ug/l	99
20) Diisopropyl ether	5.96	45	3852159	149.07	ug/l	97
21) 1,1-Dichloroethane	5.85	63	2253465	140.02	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	1392741	150.60	ug/l	99
23) tert-Butyl Alcohol	4.80	59	542399	845.20	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	3311705	156.70	ug/l	100
25) Chloroform	7.37	83	2252684	136.84	ug/l	100
26) Cyclohexane	7.65	56	1983124	156.34	ug/l	# 100
29) 1,1-Dichloropropene	7.80	75	1779330	145.13	ug/l	99
30) 2-Butanone	6.84	43	2825462	780.56	ug/l	99
31) 2,2-Dichloropropane	6.83	77	1846130	137.95	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	1978830	139.72	ug/l	99
33) Carbon Tetrachloride	7.78	117	1766136	141.15	ug/l	99
34) Benzene	8.04	78	5214686	142.25	ug/l	# 91
35) Methacrylonitrile	7.18	41	652820	165.29	ug/l	95
36) 1,2-Dichloroethane	8.13	62	1648699	137.18	ug/l	99
37) Trichloroethene	8.84	130	1364906	143.13	ug/l	99
38) Methylcyclohexane	9.08	83	1972846	160.50	ug/l	97
39) 1,2-Dichloropropane	9.12	63	1367462	141.94	ug/l	98
40) Dibromomethane	9.21	93	842264	143.80	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	1784882	143.94	ug/l	98
42) Vinyl Acetate	5.90	43	13867828	809.59	ug/l	100
43) Ethyl Acetate	6.93	43	1199313	153.58	ug/l	97
44) Isopropyl Acetate	8.17	43	2185096	152.91	ug/l	100
45) 1,4-Dioxane	9.20	88	300547	3216.88	ug/l	97
46) Methyl methacrylate	9.20	41	1122958	165.13	ug/l	100
47) n-amyl Acetate	12.07	43	1953901	191.96	ug/l	98
48) t-1,3-Dichloropropene	7.80	75	1779330	144.86	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	2147584	156.70	ug/l	99
50) 1,1,2-Trichloroethane	10.57	97	1214079	144.32	ug/l	98
51) Ethyl methacrylate	10.43	69	1701445	181.53	ug/l	99
52) 1,3-Dichloropropane	10.71	76	2038657	147.53	ug/l	99
53) Dibromochloromethane	10.90	129	1430340	152.08	ug/l	100
54) 1,2-Dibromoethane	11.01	107	1249344	154.17	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	3868045	871.95	ug/l	100
56) Bromoform	12.13	173	1052139	163.14	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	6238521	756.02	ug/l	98
59) 2-Hexanone	10.76	43	4352024	791.03	ug/l	98
61) Tetrachloroethene	10.63	164	1278538	126.98	ug/l	97
62) Toluene	10.16	91	5715814	138.49	ug/l	100
64) Chlorobenzene	11.44	112	3575184	145.73	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	1344903	138.67	ug/l	99
66) Ethyl Benzene	11.51	91	6378497	156.06	ug/l	99
67) m/p-Xylenes	11.62	106	4820489	296.87	ug/l	100
68) o-Xylene	11.95	106	2337200	156.70	ug/l	100
69) Styrene	11.97	104	3830812	156.90	ug/l	100
70) Isopropylbenzene	12.25	105	6203997	153.37	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	1601593	147.36	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	1412788m	161.74	ug/l	
73) Bromobenzene	12.53	156	1613502	152.09	ug/l	98
74) n-propylbenzene	12.59	91	7208248	151.49	ug/l	100
75) 2-Chlorotoluene	12.68	91	4227205	148.48	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	5061778	148.65	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	517614	183.34	ug/l	96
78) 4-Chlorotoluene	12.78	91	4325231	153.57	ug/l	100
79) tert-butylbenzene	13.00	119	4384263	155.25	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	5184208	150.18	ug/l	100
81) sec-Butylbenzene	13.17	105	5910115	151.25	ug/l	100
82) p-Isopropyltoluene	13.29	119	5213230	156.74	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	2870179	154.32	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	2798821	159.15	ug/l	99
85) n-Butylbenzene	13.62	91	4459660	172.23	ug/l	99
86) Hexachloroethane	13.88	117	968050	147.66	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	2747226	147.58	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	268903	160.16	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	1620996	200.48	ug/l	100
90) Hexachlorobutadiene	15.01	225	830295	137.21	ug/l	98
91) Naphthalene	15.14	128	3895073	244.91	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	1572253	184.94	ug/l	99

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

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