

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055137.D
 Acq On : 19 Apr 2019 13:06
 Operator : JC/SP
 Sample : VN0419WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0419WBS01

Manual Integrations
 APPROVED

MMDadoda
 4/22/2019 10:06:32 AM

Quant Time: Apr 20 04:08:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	69992	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	369959	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	325204	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	165705	31.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.53%
60) 4-Bromofluorobenzene	12.40	95	144686	28.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.27%
63) Toluene-d8	10.09	98	468661	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	76729	18.639	ug/l 100
3) Chloromethane	2.06	50	104142	18.728	ug/l 95
4) Vinyl Chloride	2.19	62	87937	18.287	ug/l 100
5) Bromomethane	2.56	94	46824	16.834	ug/l 94
6) Chloroethane	2.70	64	48582	18.039	ug/l 99
7) Trichlorofluoromethane	3.02	101	127722	20.785	ug/l 98
8) Diethyl Ether	3.41	74	51098	25.899	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	80130	23.855	ug/l 97
10) 1,1-Dichloroethene	3.74	96	77188	24.854	ug/l 86
11) Methyl Iodide	3.95	142	112788	23.998	ug/l 97
12) Methyl Acetate	4.33	43	105057	27.502	ug/l 98
13) Acrolein	3.61	56	35397	105.730	ug/l 97
14) Acrylonitrile	5.00	53	195014	124.609	ug/l 99
15) Acetone	3.82	58	47707	123.189	ug/l 79
16) Carbon Disulfide	4.05	76	194187	18.641	ug/l 97
17) Allyl chloride	4.33	41	156892	20.514	ug/l 97
18) Methylene Chloride	4.55	84	92882	20.233	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	79777	19.733	ug/l 98
20) Diisopropyl ether	5.96	45	327267	21.123	ug/l 95
21) 1,1-Dichloroethane	5.85	63	169906	20.531	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	96801	20.600	ug/l 96
23) tert-Butyl Alcohol	4.79	59	36862	147.718	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	239119	22.930	ug/l # 67
25) Chloroform	7.37	83	163202	20.589	ug/l 97
26) Cyclohexane	7.66	56	143863	18.736	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	116657	20.247	ug/l 98
30) 2-Butanone	6.84	43	243522	127.329	ug/l 100
31) 2,2-Dichloropropane	6.83	77	103390	19.497	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	127998	21.018	ug/l 98
33) Carbon Tetrachloride	7.78	117	107473	20.383	ug/l 98
34) Benzene	8.04	78	362856	21.252	ug/l 99
35) Methacrylonitrile	7.17	41	51713	22.941	ug/l 96
36) 1,2-Dichloroethane	8.13	62	125349	21.480	ug/l 99
37) Trichloroethene	8.83	130	87497	20.102	ug/l 90
38) Methylcyclohexane	9.08	83	117830	17.635	ug/l 100
39) 1,2-Dichloropropane	9.12	63	102250	21.688	ug/l 100
40) Dibromomethane	9.21	93	57502	21.578	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	116276	21.142	ug/l	99
42) Vinyl Acetate	5.90	43	1122950	116.140	ug/l	100
43) Ethyl Acetate	6.93	43	103744	26.626	ug/l	96
44) Isopropyl Acetate	8.17	43	171257	25.936	ug/l	100
45) 1,4-Dioxane	9.20	88	20933	572.235	ug/l	97
46) Methyl methacrylate	9.20	41	81400	23.831	ug/l	96
47) n-amyl Acetate	12.07	43	119289	24.528	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	105785	20.946	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	128709	20.644	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	80652	22.283	ug/l	98
51) Ethyl methacrylate	10.43	69	98747	22.887	ug/l	96
52) 1,3-Dichloropropane	10.71	76	143839	22.679	ug/l	99
53) Dibromochloromethane	10.90	129	81166	21.770	ug/l	100
54) 1,2-Dibromoethane	11.00	107	77348	22.763	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	184618	102.352	ug/l	99
56) Bromoform	12.13	173	50606	21.602	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	509340	135.813	ug/l	99
59) 2-Hexanone	10.75	43	319482	134.097	ug/l	100
61) Tetrachloroethene	10.63	164	84430	19.950	ug/l	98
62) Toluene	10.16	91	372625	20.795	ug/l	98
64) Chlorobenzene	11.43	112	219892	20.327	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	80306	20.873	ug/l	98
66) Ethyl Benzene	11.51	91	384892	20.038	ug/l	99
67) m/p-Xylenes	11.62	106	282305	39.540	ug/l	100
68) o-Xylene	11.95	106	141436	20.046	ug/l	100
69) Styrene	11.96	104	213877	19.521	ug/l	98
70) Isopropylbenzene	12.25	105	369588	19.592	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	107107	24.824	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	87486m	24.552	ug/l	
73) Bromobenzene	12.53	156	88880	19.933	ug/l	96
74) n-propylbenzene	12.59	91	401450	19.009	ug/l	99
75) 2-Chlorotoluene	12.67	91	254986	20.019	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	294033	19.279	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	19457	21.663	ug/l	98
78) 4-Chlorotoluene	12.77	91	233903	19.273	ug/l	99
79) tert-butylbenzene	12.99	119	253171	19.184	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	285905	19.082	ug/l	99
81) sec-Butylbenzene	13.17	105	329147	18.666	ug/l	99
82) p-Isopropyltoluene	13.29	119	266193	17.887	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	140396	18.821	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	129852	18.318	ug/l	99
85) n-Butylbenzene	13.61	91	184146	15.534	ug/l	100
86) Hexachloroethane	13.87	117	44293	18.593	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	144228	19.743	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14187	24.740	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	44248	13.548	ug/l	96
90) Hexachlorobutadiene	15.01	225	40410	16.970	ug/l	99
91) Naphthalene	15.13	128	110686	16.185	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	49494	15.152	ug/l	97

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

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