

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010419\
 Data File : VN053279.D
 Acq On : 4 Jan 2019 10:24
 Operator : MD\SY
 Sample : VN0104WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0104WBS01

Manual Integrations
 APPROVED

MMDadoda
 1/7/2019 11:09:57 AM

Quant Time: Jan 05 00:10:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	149729	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	840786	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	760607	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	281975	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	12.40	95	344094	29.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.53%
63) Toluene-d8	10.09	98	1033427	30.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	195770	19.624	ug/l 98
3) Chloromethane	2.06	50	230795	19.711	ug/l 99
4) Vinyl Chloride	2.19	62	217928	18.914	ug/l 96
5) Bromomethane	2.57	94	143308	19.291	ug/l 96
6) Chloroethane	2.71	64	127866	19.265	ug/l 99
7) Trichlorofluoromethane	3.02	101	275924	19.392	ug/l 100
8) Diethyl Ether	3.41	74	101818	19.260	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	173629	19.422	ug/l 96
10) 1,1-Dichloroethene	3.74	96	162744	18.654	ug/l 96
11) Methyl Iodide	3.96	142	250888	19.637	ug/l 99
12) Methyl Acetate	4.33	43	138060	20.303	ug/l 95
13) Acrolein	3.61	56	77594	95.575	ug/l 100
14) Acrylonitrile	4.99	53	306427	100.730	ug/l 97
15) Acetone	3.82	58	80996	125.279	ug/l 87
16) Carbon Disulfide	4.06	76	492292	18.343	ug/l 100
17) Allyl chloride	4.33	41	249274	18.162	ug/l 97
18) Methylene Chloride	4.55	84	193174	19.347	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	171958	18.650	ug/l 94
20) Diisopropyl ether	5.95	45	568857	19.354	ug/l 96
21) 1,1-Dichloroethane	5.85	63	327446	19.134	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	200002	19.257	ug/l 97
23) tert-Butyl Alcohol	4.77	59	47081	91.808	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	436462	19.185	ug/l 96
25) Chloroform	7.37	83	323980	19.695	ug/l 98
26) Cyclohexane	7.66	56	292352	18.316	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	248866	19.540	ug/l 99
30) 2-Butanone	6.83	43	346051	108.910	ug/l 96
31) 2,2-Dichloropropane	6.83	77	237252	19.243	ug/l # 81
32) 1,1,1-Trichloroethane	7.57	97	266327	19.959	ug/l 97
33) Carbon Tetrachloride	7.78	117	227122	19.445	ug/l 99
34) Benzene	8.04	78	763955	19.960	ug/l 96
35) Methacrylonitrile	7.18	41	90906	22.172	ug/l 95
36) 1,2-Dichloroethane	8.12	62	224698	20.222	ug/l 98
37) Trichloroethene	8.84	130	206749	19.940	ug/l 92
38) Methylcyclohexane	9.08	83	286145	19.209	ug/l 96
39) 1,2-Dichloropropane	9.12	63	200674	20.078	ug/l 98
40) Dibromomethane	9.21	93	116626	20.633	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	241481	19.894	ug/l	97
42) Vinyl Acetate	5.90	43	1726528	99.599	ug/l	98
43) Ethyl Acetate	6.93	43	152258	21.457	ug/l #	69
44) Isopropyl Acetate	8.17	43	269781	20.410	ug/l	99
45) 1,4-Dioxane	9.20	88	28582	353.611	ug/l	95
46) Methyl methacrylate	9.20	41	132532	19.847	ug/l	96
47) n-amyl Acetate	12.07	43	223903	19.289	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	236602	19.098	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	283067	19.404	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	166274	20.517	ug/l	99
51) Ethyl methacrylate	10.43	69	209445	19.829	ug/l	94
52) 1,3-Dichloropropane	10.71	76	287614	20.601	ug/l	99
53) Dibromochloromethane	10.90	129	179983	19.773	ug/l	97
54) 1,2-Dibromoethane	11.00	107	162535	19.880	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	604801	99.775	ug/l	98
56) Bromoform	12.13	173	120816	19.403	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	758972	104.718	ug/l	98
59) 2-Hexanone	10.75	43	519090	103.743	ug/l	97
61) Tetrachloroethene	10.63	164	232690	20.702	ug/l	95
62) Toluene	10.16	91	820403	19.667	ug/l	98
64) Chlorobenzene	11.43	112	513996	19.636	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	179327	19.530	ug/l	99
66) Ethyl Benzene	11.51	91	877023	19.388	ug/l	99
67) m/p-Xylenes	11.62	106	676377	39.535	ug/l	98
68) o-Xylene	11.95	106	324800	19.591	ug/l	98
69) Styrene	11.96	104	536744	19.835	ug/l	99
70) Isopropylbenzene	12.25	105	859610	19.707	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	180610	19.669	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	160273m	19.932	ug/l	
73) Bromobenzene	12.53	156	224143	19.991	ug/l	93
74) n-propylbenzene	12.59	91	963782	19.519	ug/l	98
75) 2-Chlorotoluene	12.67	91	585312	20.015	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	678753	19.616	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	50273	17.794	ug/l	98
78) 4-Chlorotoluene	12.77	91	573642	19.271	ug/l	99
79) tert-butylbenzene	12.99	119	600179	19.889	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	686035	19.782	ug/l	100
81) sec-Butylbenzene	13.17	105	789287	19.752	ug/l	100
82) p-Isopropyltoluene	13.29	119	667500	19.331	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	360397	18.878	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	349466	18.779	ug/l	99
85) n-Butylbenzene	13.62	91	510794	18.190	ug/l	99
86) Hexachloroethane	13.88	117	98354	17.840	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	326363	18.398	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15860	12.078	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	54677	6.350	ug/l	99
90) Hexachlorobutadiene	15.01	225	67534	12.958	ug/l	97
91) Naphthalene	15.13	128	82459	4.514	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	32560	4.239	ug/l	98

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

