

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054986.D
 Acq On : 11 Apr 2019 19:23
 Operator : JC/SP
 Sample : VN0411WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0411WBS01

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:53 PM

Quant Time: Apr 12 08:26:59 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	76129	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	407119	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	351847	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	171720	29.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.63%
60) 4-Bromofluorobenzene	12.40	95	161472	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	10.09	98	510987	30.55	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	83631	18.678	ug/l 98
3) Chloromethane	2.06	50	118248	19.550	ug/l 93
4) Vinyl Chloride	2.19	62	101545	19.414	ug/l 100
5) Bromomethane	2.57	94	60993	20.160	ug/l 91
6) Chloroethane	2.71	64	57750	19.714	ug/l 96
7) Trichlorofluoromethane	3.02	101	130585	19.538	ug/l 94
8) Diethyl Ether	3.42	74	42790	19.939	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	69504	19.024	ug/l 98
10) 1,1-Dichloroethene	3.73	96	65046	19.256	ug/l 98
11) Methyl Iodide	3.95	142	98768	19.321	ug/l 100
12) Methyl Acetate	4.33	43	84549	20.349	ug/l 98
13) Acrolein	3.61	56	37042	101.725	ug/l 97
14) Acrylonitrile	5.00	53	168099	98.752	ug/l 99
15) Acetone	3.82	58	33045	78.450	ug/l 98
16) Carbon Disulfide	4.04	76	208559	18.407	ug/l 99
17) Allyl chloride	4.32	41	162510	19.536	ug/l 99
18) Methylene Chloride	4.55	84	97461	19.519	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	86234	19.611	ug/l 97
20) Diisopropyl ether	5.96	45	330591	19.617	ug/l 99
21) 1,1-Dichloroethane	5.85	63	177628	19.734	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	100987	19.758	ug/l 98
23) tert-Butyl Alcohol	4.82	59	26851	98.926	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	232399	20.489	ug/l # 65
25) Chloroform	7.37	83	171276	19.865	ug/l 98
26) Cyclohexane	7.65	56	157142	18.816	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	126058	19.882	ug/l 98
30) 2-Butanone	6.85	43	198455	94.294	ug/l 98
31) 2,2-Dichloropropane	6.82	77	112770	19.324	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	138614	20.683	ug/l 98
33) Carbon Tetrachloride	7.77	117	112610	19.408	ug/l 98
34) Benzene	8.04	78	376350	20.030	ug/l 99
35) Methacrylonitrile	7.18	41	54922	22.141	ug/l 99
36) 1,2-Dichloroethane	8.13	62	130928	20.389	ug/l # 89
37) Trichloroethene	8.83	130	96729	20.194	ug/l 93
38) Methylcyclohexane	9.08	83	135611	18.443	ug/l 99
39) 1,2-Dichloropropane	9.12	63	104810	20.202	ug/l 94
40) Dibromomethane	9.21	93	60763	20.721	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	120146	19.852	ug/l	99
42) Vinyl Acetate	5.90	43	1078967	101.406	ug/l	100
43) Ethyl Acetate	6.94	43	77868	18.161	ug/l #	83
44) Isopropyl Acetate	8.17	43	149727	20.606	ug/l	100
45) 1,4-Dioxane	9.20	88	17341	430.774	ug/l	99
46) Methyl methacrylate	9.20	41	72381	19.256	ug/l	96
47) n-amyl Acetate	12.07	43	102155	19.088	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	103410	18.606	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	130916	19.081	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	81285	20.408	ug/l	98
51) Ethyl methacrylate	10.43	69	92631	19.510	ug/l	96
52) 1,3-Dichloropropane	10.71	76	142399	20.403	ug/l	100
53) Dibromochloromethane	10.90	129	79720	19.431	ug/l	98
54) 1,2-Dibromoethane	11.01	107	74578	19.945	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	179995	90.681	ug/l	99
56) Bromoform	12.13	173	47276	18.339	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	427530	105.367	ug/l	99
59) 2-Hexanone	10.75	43	254960	98.912	ug/l	98
61) Tetrachloroethene	10.63	164	93596	20.441	ug/l	96
62) Toluene	10.16	91	397212	20.489	ug/l	100
64) Chlorobenzene	11.43	112	232367	19.854	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	86183	20.704	ug/l	99
66) Ethyl Benzene	11.51	91	411942	19.822	ug/l	98
67) m/p-Xylenes	11.62	106	313713	40.612	ug/l	97
68) o-Xylene	11.95	106	152365	19.959	ug/l	99
69) Styrene	11.96	104	230314	19.429	ug/l	98
70) Isopropylbenzene	12.25	105	408629	20.021	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	100714	21.574	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	87339m	22.655	ug/l	
73) Bromobenzene	12.53	156	96485	20.000	ug/l	98
74) n-propylbenzene	12.59	91	448359	19.622	ug/l	99
75) 2-Chlorotoluene	12.67	91	276388	20.056	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	324732	19.680	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	17506	18.015	ug/l	96
78) 4-Chlorotoluene	12.77	91	255254	19.440	ug/l	100
79) tert-butylbenzene	12.99	119	282828	19.809	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	319043	19.681	ug/l	100
81) sec-Butylbenzene	13.17	105	374322	19.621	ug/l	100
82) p-Isopropyltoluene	13.29	119	304181	18.892	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	156110	19.343	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	141570	18.459	ug/l	100
85) n-Butylbenzene	13.61	91	217303	16.943	ug/l	99
86) Hexachloroethane	13.87	117	49544	19.222	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	154318	19.525	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12133	19.556	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	58000	16.414	ug/l	98
90) Hexachlorobutadiene	15.01	225	46347	17.990	ug/l	97
91) Naphthalene	15.13	128	121476	16.418	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	60235	17.044	ug/l	99

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

