

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056688.D
 Acq On : 12 Jul 2019 14:26
 Operator : JC/SP
 Sample : VN0713WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0713WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:45 AM

Quant Time: Jul 13 00:31:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	53678	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	290250	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	257440	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	108655	29.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.60%
60) 4-Bromofluorobenzene	12.40	95	115892	29.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.03%
63) Toluene-d8	10.09	98	358896	30.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	59052	19.360 ug/l	98
3) Chloromethane	2.06	50	78674	19.286 ug/l	98
4) Vinyl Chloride	2.19	62	76834	19.149 ug/l	97
5) Bromomethane	2.56	94	48454	19.159 ug/l	96
6) Chloroethane	2.70	64	43015	18.762 ug/l	96
7) Trichlorofluoromethane	3.01	101	101006	19.627 ug/l	96
8) Diethyl Ether	3.41	74	40080	19.045 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	60957	18.995 ug/l	98
10) 1,1-Dichloroethene	3.73	96	61237	19.343 ug/l	99
11) Methyl Iodide	3.95	142	74928	17.809 ug/l	97
12) Methyl Acetate	4.33	43	79888	18.851 ug/l	99
13) Acrolein	3.61	56	24653	82.512 ug/l	99
14) Acrylonitrile	4.99	53	183371	98.226 ug/l	100
15) Acetone	3.82	58	51554	80.002 ug/l	98
16) Carbon Disulfide	4.05	76	152240	18.232 ug/l	100
17) Allyl chloride	4.32	41	103892	18.760 ug/l	98
18) Methylene Chloride	4.55	84	71923	19.350 ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	64810	19.122 ug/l	99
20) Diisopropyl ether	5.95	45	215543	19.533 ug/l	99
21) 1,1-Dichloroethane	5.85	63	121805	19.319 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	76151	19.215 ug/l	99
23) tert-Butyl Alcohol	4.79	59	66141	101.565 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	193713	19.184 ug/l	99
25) Chloroform	7.37	83	119532	19.460 ug/l	99
26) Cyclohexane	7.65	56	110935	18.929 ug/l #	99
29) 1,1-Dichloropropene	7.79	75	89512	19.401 ug/l	99
30) 2-Butanone	6.84	43	251059	93.985 ug/l	99
31) 2,2-Dichloropropane	6.83	77	81000	18.140 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	96802	19.683 ug/l	99
33) Carbon Tetrachloride	7.77	117	81396	19.233 ug/l	97
34) Benzene	8.04	78	283462	19.996 ug/l	99
35) Methacrylonitrile	7.17	41	33700	16.514 ug/l	97
36) 1,2-Dichloroethane	8.13	62	89807	19.721 ug/l	100
37) Trichloroethene	8.84	130	73692	19.141 ug/l	96
38) Methylcyclohexane	9.08	83	109997	18.872 ug/l	99
39) 1,2-Dichloropropane	9.12	63	77194	20.287 ug/l	98
40) Dibromomethane	9.21	93	47699	19.681 ug/l	99

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

41) Bromodichloromethane	9.40	83	86301	19.321	ug/l	100
42) Vinyl Acetate	5.90	43	887602	99.839	ug/l	100
43) Ethyl Acetate	6.93	43	102589	21.253	ug/l	97
44) Isopropyl Acetate	8.17	43	149441	19.849	ug/l #	89
45) 1,4-Dioxane	9.20	88	31363	411.759	ug/l	96
46) Methyl methacrylate	9.20	41	73541	20.332	ug/l	100
47) n-amyl Acetate	12.07	43	114627	18.616	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	89397	18.195	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	104653	18.881	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	69781	19.763	ug/l	99
51) Ethyl methacrylate	10.43	69	103674	19.089	ug/l	99
52) 1,3-Dichloropropane	10.71	76	117797	19.938	ug/l	99
53) Dibromochloromethane	10.90	129	67472	18.907	ug/l	98
54) 1,2-Dibromoethane	11.00	107	72142	19.658	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	255962	97.458	ug/l	99
56) Bromoform	12.13	173	48405	18.323	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	491879	101.514	ug/l	100
59) 2-Hexanone	10.75	43	358616	97.502	ug/l	99
61) Tetrachloroethene	10.63	164	72291	19.542	ug/l	96
62) Toluene	10.16	91	297948	19.704	ug/l	99
64) Chlorobenzene	11.43	112	179418	19.455	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	65986	19.516	ug/l	99
66) Ethyl Benzene	11.51	91	312050	19.092	ug/l	98
67) m/p-Xylenes	11.62	106	238125	38.605	ug/l	99
68) o-Xylene	11.95	106	115567	19.209	ug/l	99
69) Styrene	11.96	104	191181	19.178	ug/l	99
70) Isopropylbenzene	12.25	105	306668	19.446	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	102973	20.118	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	89770m	20.520	ug/l	
73) Bromobenzene	12.53	156	78799	19.121	ug/l	99
74) n-propylbenzene	12.59	91	332175	18.670	ug/l	99
75) 2-Chlorotoluene	12.67	91	205219	19.152	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	259825	19.316	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	25071	17.240	ug/l	97
78) 4-Chlorotoluene	12.77	91	190902	18.372	ug/l	99
79) tert-butylbenzene	12.99	119	217936	19.046	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	255619	19.162	ug/l	99
81) sec-Butylbenzene	13.17	105	284859	18.807	ug/l	100
82) p-Isopropyltoluene	13.29	119	256280	18.605	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	123757	18.018	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	118160	17.947	ug/l	99
85) n-Butylbenzene	13.61	91	199789	17.584	ug/l	99
86) Hexachloroethane	13.87	117	39964	18.491	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	127846	18.522	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16869	19.102	ug/l	97
89) 1,2,4-Trichlorobenzene	14.90	180	58754	15.825	ug/l	98
90) Hexachlorobutadiene	15.01	225	44100	18.269	ug/l	98
91) Naphthalene	15.13	128	157494	15.772	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	66601	17.108	ug/l	98

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

