

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056806.D
 Acq On : 18 Jul 2019 11:42
 Operator : JC/SP
 Sample : VN0718WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0718WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 11:31:35 PM

Quant Time: Jul 19 05:48:21 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	7.19	128	50117	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	277204	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	241019	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	101571	29.92	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.73%
60) 4-Bromofluorobenzene	12.40	95	109615	29.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.07%
63) Toluene-d8	10.09	98	337065	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	58540	20.556	ug/l 97
3) Chloromethane	2.06	50	78075	20.499	ug/l 98
4) Vinyl Chloride	2.18	62	75494	20.152	ug/l 98
5) Bromomethane	2.55	94	46459	19.676	ug/l 98
6) Chloroethane	2.70	64	43289	20.224	ug/l 98
7) Trichlorofluoromethane	3.01	101	98140	20.426	ug/l 99
8) Diethyl Ether	3.41	74	39585	20.146	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	60799	20.292	ug/l 98
10) 1,1-Dichloroethene	3.73	96	58108	19.659	ug/l 94
11) Methyl Iodide	3.95	142	72485	18.453	ug/l 99
12) Methyl Acetate	4.33	43	73755	18.640	ug/l 100
13) Acrolein	3.61	56	31912	114.397	ug/l 98
14) Acrylonitrile	4.99	53	171146	98.191	ug/l 100
15) Acetone	3.82	58	51825	86.137	ug/l 98
16) Carbon Disulfide	4.05	76	146809	18.831	ug/l 99
17) Allyl chloride	4.32	41	99441	19.232	ug/l 96
18) Methylene Chloride	4.55	84	70461	20.304	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	62486	19.747	ug/l 98
20) Diisopropyl ether	5.95	45	206284	20.022	ug/l 99
21) 1,1-Dichloroethane	5.85	63	119111	20.234	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	73760	19.934	ug/l 98
23) tert-Butyl Alcohol	4.79	59	58720	96.576	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	189292	20.078	ug/l 99
25) Chloroform	7.37	83	117762	20.534	ug/l 97
26) Cyclohexane	7.65	56	107084	19.571	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	85604	19.427	ug/l 99
30) 2-Butanone	6.84	43	232428	91.106	ug/l 99
31) 2,2-Dichloropropane	6.83	77	83695	19.626	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	94777	20.179	ug/l 99
33) Carbon Tetrachloride	7.78	117	80733	19.974	ug/l 98
34) Benzene	8.04	78	273270	20.184	ug/l 100
35) Methacrylonitrile	7.18	41	44053	22.603	ug/l 90
36) 1,2-Dichloroethane	8.12	62	87726	20.171	ug/l 98
37) Trichloroethene	8.84	130	73370	19.954	ug/l 95
38) Methylcyclohexane	9.08	83	106077	19.056	ug/l 99
39) 1,2-Dichloropropane	9.12	63	73363	20.188	ug/l 99
40) Dibromomethane	9.21	93	47210	20.396	ug/l 99

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

41) Bromodichloromethane	9.40	83	85567	20.058	ug/l	99
42) Vinyl Acetate	5.90	43	852314	100.381	ug/l	100
43) Ethyl Acetate	6.93	43	89478	19.409	ug/l	96
44) Isopropyl Acetate	8.17	43	141860	19.729	ug/l #	88
45) 1,4-Dioxane	9.20	88	27081	372.274	ug/l	97
46) Methyl methacrylate	9.20	41	69055	19.990	ug/l	97
47) n-amyl Acetate	12.07	43	110733	18.830	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	89456	19.064	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	103468	19.546	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	68859	20.419	ug/l	98
51) Ethyl methacrylate	10.43	69	102728	19.805	ug/l	98
52) 1,3-Dichloropropane	10.71	76	115690	20.503	ug/l	99
53) Dibromochloromethane	10.90	129	67490	19.802	ug/l	100
54) 1,2-Dibromoethane	11.00	107	70814	20.205	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	225772	90.009	ug/l	99
56) Bromoform	12.12	173	47585	18.860	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	461764	101.792	ug/l	100
59) 2-Hexanone	10.75	43	326737	94.887	ug/l	99
61) Tetrachloroethene	10.63	164	74326	21.461	ug/l	98
62) Toluene	10.16	91	290823	20.544	ug/l	99
64) Chlorobenzene	11.43	112	174669	20.230	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	65003	20.535	ug/l	99
66) Ethyl Benzene	11.51	91	307350	20.086	ug/l	100
67) m/p-Xylenes	11.62	106	232412	40.246	ug/l	99
68) o-Xylene	11.95	106	114051	20.249	ug/l	98
69) Styrene	11.96	104	184457	19.764	ug/l	100
70) Isopropylbenzene	12.25	105	301340	20.410	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	97145	20.272	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	93361m	22.795	ug/l	
73) Bromobenzene	12.53	156	78506	20.348	ug/l	98
74) n-propylbenzene	12.59	91	326947	19.628	ug/l	100
75) 2-Chlorotoluene	12.67	91	199313	19.868	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	254342	20.197	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	24814	18.226	ug/l	99
78) 4-Chlorotoluene	12.77	91	189476	19.477	ug/l	99
79) tert-butylbenzene	12.99	119	216352	20.196	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	253661	20.311	ug/l	100
81) sec-Butylbenzene	13.17	105	278655	19.651	ug/l	100
82) p-Isopropyltoluene	13.29	119	254085	19.703	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	124020	19.287	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	115671	18.766	ug/l	99
85) n-Butylbenzene	13.61	91	192988	18.143	ug/l	99
86) Hexachloroethane	13.87	117	39369	19.457	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	125658	19.445	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15423	18.655	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	54000	15.536	ug/l	99
90) Hexachlorobutadiene	15.01	225	43337	19.176	ug/l	98
91) Naphthalene	15.13	128	135287	14.471	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	59342	16.282	ug/l	100

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

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