

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055728.D
 Acq On : 22 May 2019 19:27
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN052219

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:31:31 PM

Quant Time: May 23 06:27:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57129	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	308336	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	268751	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	110829	29.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.93%
60) 4-Bromofluorobenzene	12.40	95	122263	29.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.47%
63) Toluene-d8	10.09	98	374539	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	48078	19.194	ug/l 97
3) Chloromethane	2.06	50	71121	19.962	ug/l 97
4) Vinyl Chloride	2.18	62	73384	20.181	ug/l 98
5) Bromomethane	2.54	94	50434	23.689	ug/l 99
6) Chloroethane	2.69	64	44849	21.113	ug/l 96
7) Trichlorofluoromethane	3.01	101	91094	19.968	ug/l 97
8) Diethyl Ether	3.41	74	41703	20.794	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	56562	19.622	ug/l 99
10) 1,1-Dichloroethene	3.72	96	61200	20.296	ug/l 99
11) Methyl Iodide	3.94	142	79082	18.384	ug/l 98
12) Methyl Acetate	4.33	43	72361	19.621	ug/l 98
13) Acrolein	3.60	56	49287	96.182	ug/l 100
14) Acrylonitrile	4.99	53	168919	100.464	ug/l 99
15) Acetone	3.82	58	49409	94.620	ug/l 87
16) Carbon Disulfide	4.04	76	178479	20.644	ug/l 100
17) Allyl chloride	4.31	41	109767	20.212	ug/l 99
18) Methylene Chloride	4.55	84	70568	20.433	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	65322	20.137	ug/l 96
20) Diisopropyl ether	5.96	45	210244	19.956	ug/l 96
21) 1,1-Dichloroethane	5.85	63	120733	20.277	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	76424	20.201	ug/l 97
23) tert-Butyl Alcohol	4.81	59	69677	94.358	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	205087	20.044	ug/l 100
25) Chloroform	7.37	83	119052	20.244	ug/l 100
26) Cyclohexane	7.65	56	109254	19.889	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	90065	20.865	ug/l 98
30) 2-Butanone	6.84	43	229729	99.853	ug/l 99
31) 2,2-Dichloropropane	6.82	77	98738	19.657	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	104004	20.329	ug/l 99
33) Carbon Tetrachloride	7.77	117	93562	20.443	ug/l 98
34) Benzene	8.04	78	273839	20.549	ug/l 98
35) Methacrylonitrile	7.18	41	42366	19.951	ug/l 99
36) 1,2-Dichloroethane	8.12	62	89628	20.581	ug/l 100
37) Trichloroethene	8.83	130	74580	20.058	ug/l 99
38) Methylcyclohexane	9.08	83	109292	19.985	ug/l 99
39) 1,2-Dichloropropane	9.12	63	74127	20.692	ug/l 97
40) Dibromomethane	9.21	93	49100	21.225	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	96555	20.365	ug/l	100
42) Vinyl Acetate	5.90	43	912934	102.204	ug/l	100
43) Ethyl Acetate	6.93	43	91323	20.194	ug/l #	100
44) Isopropyl Acetate	8.17	43	150900	20.151	ug/l #	88
45) 1,4-Dioxane	9.20	88	28199	400.270	ug/l	96
46) Methyl methacrylate	9.20	41	69649	19.935	ug/l	98
47) n-amyl Acetate	12.07	43	122883	19.839	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	105401	20.139	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	116758	20.382	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	69485	20.633	ug/l	98
51) Ethyl methacrylate	10.43	69	110930	20.436	ug/l	98
52) 1,3-Dichloropropane	10.71	76	112040	20.184	ug/l	100
53) Dibromochloromethane	10.90	129	79528	19.990	ug/l	98
54) 1,2-Dibromoethane	11.01	107	70322	20.179	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	197960	93.729	ug/l	100
56) Bromoform	12.13	173	63302	19.398	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	456791	102.671	ug/l	100
59) 2-Hexanone	10.75	43	315535	99.204	ug/l	100
61) Tetrachloroethene	10.63	164	73313	20.152	ug/l	97
62) Toluene	10.16	91	302359	20.921	ug/l	99
64) Chlorobenzene	11.43	112	181042	20.651	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	71755	20.314	ug/l	99
66) Ethyl Benzene	11.51	91	324945	20.578	ug/l	100
67) m/p-Xylenes	11.62	106	243204	40.544	ug/l	99
68) o-Xylene	11.95	106	120072	20.228	ug/l	96
69) Styrene	11.96	104	197246	20.141	ug/l	98
70) Isopropylbenzene	12.25	105	320111	20.611	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	98413	20.589	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	88128m	21.423	ug/l	
73) Bromobenzene	12.53	156	80297	19.543	ug/l	98
74) n-propylbenzene	12.59	91	338888	20.231	ug/l	99
75) 2-Chlorotoluene	12.67	91	208018	20.330	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	261377	20.360	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	31276	19.140	ug/l	97
78) 4-Chlorotoluene	12.77	91	194231	20.029	ug/l	100
79) tert-butylbenzene	12.99	119	230469	20.420	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	256131	20.098	ug/l	99
81) sec-Butylbenzene	13.17	105	293366	20.458	ug/l	99
82) p-Isopropyltoluene	13.29	119	263287	19.950	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	125198	19.438	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	115978	18.907	ug/l	99
85) n-Butylbenzene	13.61	91	199240	19.406	ug/l	99
86) Hexachloroethane	13.87	117	52411	20.191	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	126081	19.440	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17684	19.521	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	60560	17.298	ug/l	99
90) Hexachlorobutadiene	15.01	225	49239	18.850	ug/l	99
91) Naphthalene	15.13	128	177375	18.543	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	66740	18.240	ug/l	99

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

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