

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053019\
 Data File : VN055904.D
 Acq On : 30 May 2019 17:04
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/31/2019 9:38:45 AM

Quant Time: May 31 05:18:31 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	51667	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	278619	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	241824	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102036	30.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.70%
60) 4-Bromofluorobenzene	12.40	95	106316	28.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.20%
63) Toluene-d8	10.09	98	334092	30.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	44367	19.585	ug/l 100
3) Chloromethane	2.06	50	59701	18.528	ug/l 97
4) Vinyl Chloride	2.19	62	64763	19.693	ug/l 99
5) Bromomethane	2.54	94	46291m	24.042	ug/l
6) Chloroethane	2.69	64	40281	20.967	ug/l 95
7) Trichlorofluoromethane	3.01	101	86126	20.875	ug/l 98
8) Diethyl Ether	3.40	74	38512	21.233	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	53751	20.618	ug/l 98
10) 1,1-Dichloroethene	3.72	96	54241	19.889	ug/l 97
11) Methyl Iodide	3.94	142	76501	19.664	ug/l 99
12) Methyl Acetate	4.33	43	68063	20.406	ug/l 99
13) Acrolein	3.60	56	42131	90.909	ug/l 99
14) Acrylonitrile	4.99	53	152850	100.517	ug/l 100
15) Acetone	3.82	58	48305	102.285	ug/l 95
16) Carbon Disulfide	4.04	76	129176	16.521	ug/l 99
17) Allyl chloride	4.31	41	89850	18.293	ug/l 96
18) Methylene Chloride	4.55	84	63422	20.306	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	57266	19.520	ug/l 98
20) Diisopropyl ether	5.96	45	187189	19.646	ug/l 96
21) 1,1-Dichloroethane	5.84	63	106806	19.834	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	68909	20.140	ug/l 97
23) tert-Butyl Alcohol	4.82	59	61656	92.323	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	183174	19.795	ug/l 100
25) Chloroform	7.37	83	106560	20.035	ug/l 99
26) Cyclohexane	7.65	56	94934	19.109	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	78278	20.069	ug/l 99
30) 2-Butanone	6.84	43	211104	101.544	ug/l 99
31) 2,2-Dichloropropane	6.82	77	83827	18.469	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	90645	19.607	ug/l 99
33) Carbon Tetrachloride	7.77	117	74683	18.059	ug/l 98
34) Benzene	8.04	78	250332	20.788	ug/l 99
35) Methacrylonitrile	7.18	41	38326	19.973	ug/l 98
36) 1,2-Dichloroethane	8.12	62	81965	20.829	ug/l 100
37) Trichloroethene	8.83	130	66877	19.905	ug/l 99
38) Methylcyclohexane	9.08	83	95790	19.384	ug/l 99
39) 1,2-Dichloropropane	9.12	63	65354	20.188	ug/l 98
40) Dibromomethane	9.21	93	42456	20.310	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	79359	18.524	ug/l	99
42) Vinyl Acetate	5.90	43	775496	96.077	ug/l	99
43) Ethyl Acetate	6.93	43	81549	19.956	ug/l #	100
44) Isopropyl Acetate	8.17	43	130218	19.244	ug/l #	87
45) 1,4-Dioxane	9.20	88	26516	416.525	ug/l	95
46) Methyl methacrylate	9.20	41	63245	20.033	ug/l	99
47) n-amyl Acetate	12.07	43	102567	18.326	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	81298	17.191	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	96778	18.696	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	63025	20.711	ug/l	97
51) Ethyl methacrylate	10.43	69	93245	19.010	ug/l	99
52) 1,3-Dichloropropane	10.71	76	102087	20.352	ug/l	99
53) Dibromochloromethane	10.90	129	62140	17.285	ug/l	98
54) 1,2-Dibromoethane	11.00	107	63786	20.256	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	169221	88.667	ug/l	99
56) Bromoform	12.13	173	43263	14.671	ug/l #	95
58) 4-Methyl-2-Pentanone	9.99	43	408219	101.971	ug/l	99
59) 2-Hexanone	10.75	43	282672	98.767	ug/l	100
61) Tetrachloroethene	10.63	164	68707	20.988	ug/l	98
62) Toluene	10.15	91	273659	21.044	ug/l	100
64) Chlorobenzene	11.43	112	163548	20.733	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	60098	18.908	ug/l	99
66) Ethyl Benzene	11.51	91	290791	20.466	ug/l	99
67) m/p-Xylenes	11.62	106	221515	41.040	ug/l	100
68) o-Xylene	11.95	106	109619	20.523	ug/l	99
69) Styrene	11.96	104	175783	19.948	ug/l	98
70) Isopropylbenzene	12.25	105	290280	20.771	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	87909	20.440	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	78157m	21.114	ug/l	
73) Bromobenzene	12.53	156	73026	19.752	ug/l	100
74) n-propylbenzene	12.59	91	301508	20.004	ug/l	100
75) 2-Chlorotoluene	12.67	91	188826	20.509	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	234937	20.338	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	21437	14.580	ug/l	86
78) 4-Chlorotoluene	12.77	91	172409	19.759	ug/l	99
79) tert-butylbenzene	12.99	119	209202	20.600	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	228688	19.943	ug/l	99
81) sec-Butylbenzene	13.17	105	263100	20.391	ug/l	100
82) p-Isopropyltoluene	13.29	119	236648	19.929	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	111828	19.295	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	102303	18.535	ug/l	99
85) n-Butylbenzene	13.61	91	166345	18.006	ug/l	99
86) Hexachloroethane	13.87	117	37361	15.996	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	114861	19.682	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13609	16.695	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	44967	14.274	ug/l	98
90) Hexachlorobutadiene	15.01	225	39912	16.980	ug/l	98
91) Naphthalene	15.13	128	131979	15.333	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	52077	15.818	ug/l	96

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

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