

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057674.D
 Acq On : 3 Sep 2019 20:05
 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
 9/5/2019 3:21:40 PM

Quant Time: Sep 04 03:25:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	60840	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	365743	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	316384	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	194559	30.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.27%
60) 4-Bromofluorobenzene	12.40	95	151186	27.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.23%
63) Toluene-d8	10.08	98	468049	30.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	86715	19.783	ug/l 95
3) Chloromethane	2.05	50	87085	18.840	ug/l 99
4) Vinyl Chloride	2.18	62	71144	18.821	ug/l 96
5) Bromomethane	2.53	94	47829m	19.792	ug/l
6) Chloroethane	2.69	64	52962	19.187	ug/l 92
7) Trichlorofluoromethane	3.01	101	136795	18.895	ug/l 95
8) Diethyl Ether	3.40	74	45846	19.253	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	71229	18.932	ug/l 100
10) 1,1-Dichloroethene	3.73	96	65809	19.173	ug/l 93
11) Methyl Iodide	3.94	142	88098	18.535	ug/l 94
12) Methyl Acetate	4.31	43	98669	19.254	ug/l 99
13) Acrolein	3.59	56	25840	88.867	ug/l 97
14) Acrylonitrile	4.96	53	175531	94.114	ug/l 99
15) Acetone	3.80	58	43570	83.283	ug/l 99
16) Carbon Disulfide	4.04	76	154910	17.966	ug/l 99
17) Allyl chloride	4.31	41	141680	19.327	ug/l 97
18) Methylene Chloride	4.54	84	81949	19.053	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	68636	18.904	ug/l 98
20) Diisopropyl ether	5.93	45	303639	19.222	ug/l 94
21) 1,1-Dichloroethane	5.83	63	154077	18.924	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	82506	18.605	ug/l 98
23) tert-Butyl Alcohol	4.76	59	65880	97.143	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	259733	19.045	ug/l 100
25) Chloroform	7.36	83	161096	19.088	ug/l 100
26) Cyclohexane	7.64	56	129000	18.607	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	111819	19.145	ug/l 98
30) 2-Butanone	6.82	43	254351	92.191	ug/l # 98
31) 2,2-Dichloropropane	6.81	77	125452	17.355	ug/l # 71
32) 1,1,1-Trichloroethane	7.56	97	135529	18.744	ug/l 99
33) Carbon Tetrachloride	7.76	117	107928	18.381	ug/l 91
34) Benzene	8.03	78	318529	18.987	ug/l 96
35) Methacrylonitrile	7.16	41	44366	17.554	ug/l 99
36) 1,2-Dichloroethane	8.11	62	143529	19.198	ug/l # 100
37) Trichloroethene	8.83	130	77058	19.344	ug/l 99
38) Methylcyclohexane	9.07	83	120242	18.553	ug/l 98
39) 1,2-Dichloropropane	9.11	63	88324	19.253	ug/l 91
40) Dibromomethane	9.20	93	56439	18.978	ug/l 99

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

41) Bromodichloromethane	9.40	83	121062	18.835	ug/l #	97
42) Vinyl Acetate	5.88	43	1215274	100.217	ug/l	100
43) Ethyl Acetate	6.91	43	104996	18.481	ug/l #	79
44) Isopropyl Acetate	8.15	43	200489	18.876	ug/l	100
45) 1,4-Dioxane	9.19	88	25402	372.560	ug/l	94
46) Methyl methacrylate	9.19	41	102755	19.938	ug/l	99
47) n-amyl Acetate	12.07	43	145784	17.698	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	119466	17.719	ug/l	95
49) cis-1,3-Dichloropropene	9.83	75	131669	18.304	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	77540	19.333	ug/l	98
51) Ethyl methacrylate	10.43	69	121026	18.510	ug/l	99
52) 1,3-Dichloropropane	10.71	76	137663	19.284	ug/l	99
53) Dibromochloromethane	10.90	129	74108	17.704	ug/l	100
54) 1,2-Dibromoethane	11.00	107	75969	18.948	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	179735	87.004	ug/l	99
56) Bromoform	12.13	173	42166	16.244	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	574986	102.835	ug/l	99
59) 2-Hexanone	10.75	43	374779	94.722	ug/l	99
61) Tetrachloroethene	10.63	164	72572	19.976	ug/l	96
62) Toluene	10.15	91	349862	19.695	ug/l	98
64) Chlorobenzene	11.43	112	196099	18.800	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	72601	18.999	ug/l	98
66) Ethyl Benzene	11.51	91	386772	19.479	ug/l	97
67) m/p-Xylenes	11.62	106	261397	37.536	ug/l	99
68) o-Xylene	11.95	106	128327	18.506	ug/l	94
69) Styrene	11.96	104	204703	18.418	ug/l	98
70) Isopropylbenzene	12.25	105	365875	19.236	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	95487	19.081	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	89322m	18.979	ug/l	
73) Bromobenzene	12.53	156	72942	18.097	ug/l	99
74) n-propylbenzene	12.59	91	396449	18.829	ug/l	100
75) 2-Chlorotoluene	12.68	91	240288	18.230	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	295524	18.716	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	23001	16.010	ug/l	87
78) 4-Chlorotoluene	12.78	91	218590	17.454	ug/l	99
79) tert-butylbenzene	12.99	119	253723	18.710	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	281766	18.992	ug/l	99
81) sec-Butylbenzene	13.17	105	327527	18.742	ug/l	99
82) p-Isopropyltoluene	13.29	119	275006	18.528	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	104806	17.363	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	93510	16.410	ug/l	98
85) n-Butylbenzene	13.62	91	244301	18.725	ug/l	99
86) Hexachloroethane	13.88	117	47072	17.526	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	95333	17.118	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10740	14.639	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	22884	11.859	ug/l	95
90) Hexachlorobutadiene	15.01	225	41157	19.230	ug/l	96
91) Naphthalene	15.13	128	57074	11.388	ug/l	97
92) 1,2,3-Trichlorobenzene	15.29	180	23158	12.351	ug/l	94

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

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