

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071320\
 Data File : VN062508.D
 Acq On : 13 Jul 2020 10:00
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 7/14/2020 11:36:40 AM

Quant Time: Jul 13 10:40:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 13 10:35:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	44764	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	249617	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	226984	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	116126	38.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	128.50%
60) 4-Bromofluorobenzene	12.38	95	113828	33.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	110.17%
63) Toluene-d8	10.06	98	328409	33.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	52383	25.913	ug/l 100
3) Chloromethane	2.04	50	74490	29.547	ug/l 100
4) Vinyl Chloride	2.16	62	65553	20.824	ug/l 100
5) Bromomethane	2.54	94	30729	15.911	ug/l 100
6) Chloroethane	2.67	64	32950	15.865	ug/l 100
7) Trichlorofluoromethane	2.99	101	79974	18.411	ug/l 100
8) Diethyl Ether	3.37	74	37567	24.765	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	49996	21.102	ug/l 100
10) 1,1-Dichloroethene	3.70	96	50733	21.589	ug/l 100
11) Methyl Iodide	3.91	142	60520	19.471	ug/l 100
12) Methyl Acetate	4.28	43	67272	31.281	ug/l 100
13) Acrolein	3.57	56	52402	172.264	ug/l 100
14) Acrylonitrile	4.93	53	156594	145.568	ug/l 100
15) Acetone	3.78	58	57495	169.007	ug/l 99
16) Carbon Disulfide	4.01	76	163047	30.853	ug/l 100
17) Allyl chloride	4.27	41	112944	35.207	ug/l 100
18) Methylene Chloride	4.50	84	63619	23.092	ug/l 100
19) trans-1,2-Dichloroethene	4.99	96	55680	21.352	ug/l 100
20) Diisopropyl ether	5.90	45	225786	30.961	ug/l 100
21) 1,1-Dichloroethane	5.80	63	118448	26.205	ug/l 100
22) cis-1,2-Dichloroethene	6.78	96	63446	20.758	ug/l 100
23) tert-Butyl Alcohol	4.73	59	54310	134.171	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	187376	24.039	ug/l 100
25) Chloroform	7.33	83	107916	22.128	ug/l 100
26) Cyclohexane	7.61	56	102925	28.791	ug/l # 100
29) 1,1-Dichloropropene	7.75	75	83131	23.340	ug/l 100
30) 2-Butanone	6.79	43	239187	167.692	ug/l 100
31) 2,2-Dichloropropane	6.78	77	96422	23.144	ug/l 100
32) 1,1,1-Trichloroethane	7.53	97	90851	20.630	ug/l 100
33) Carbon Tetrachloride	7.73	117	78232	21.458	ug/l 100
34) Benzene	8.00	78	251214	22.779	ug/l 100
35) Methacrylonitrile	7.12	41	40947	32.478	ug/l 100
36) 1,2-Dichloroethane	8.09	62	89424	24.405	ug/l 100
37) Trichloroethene	8.80	130	56114	17.401	ug/l 100
38) Methylcyclohexane	9.05	83	91937	23.133	ug/l 100
39) 1,2-Dichloropropane	9.09	63	71833	25.940	ug/l 100
40) Dibromomethane	9.18	93	41426	21.241	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	87193	21.844	ug/l	100
42) Vinyl Acetate	5.84	43	946051	163.156	ug/l	100
43) Ethyl Acetate	6.88	43	90278	31.425	ug/l	100
44) Isopropyl Acetate	8.13	43	149358	29.889	ug/l	100
45) 1,4-Dioxane	9.17	88	21592	461.129	ug/l	100
46) Methyl methacrylate	9.17	41	71211	31.656	ug/l	100
47) n-amyl Acetate	12.05	43	122222	28.788	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	99309	23.234	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	108195	23.278	ug/l	100
50) 1,1,2-Trichloroethane	10.53	97	58373	20.644	ug/l	100
51) Ethyl methacrylate	10.40	69	95285	24.483	ug/l	100
52) 1,3-Dichloropropane	10.68	76	106330	22.931	ug/l	100
53) Dibromochloromethane	10.87	129	62940	19.212	ug/l	100
54) 1,2-Dibromoethane	10.98	107	57400	19.645	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	149432	104.234	ug/l	100
56) Bromoform	12.10	173	42310	18.479	ug/l	100
58) 4-Methyl-2-Pentanone	9.95	43	457069	161.021	ug/l	100
59) 2-Hexanone	10.72	43	336301	162.287	ug/l	100
61) Tetrachloroethene	10.60	164	46887	14.271	ug/l	100
62) Toluene	10.12	91	262467	22.068	ug/l	100
64) Chlorobenzene	11.41	112	148920	19.903	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	56033	19.666	ug/l	100
66) Ethyl Benzene	11.48	91	283353	21.709	ug/l	100
67) m/p-Xylenes	11.59	106	203736	40.107	ug/l	100
68) o-Xylene	11.92	106	98408	20.440	ug/l	100
69) Styrene	11.94	104	164874	20.128	ug/l	100
70) Isopropylbenzene	12.22	105	263904	20.649	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	86235	24.249	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	83842m	25.255	ug/l	100
73) Bromobenzene	12.50	156	60440	18.018	ug/l	100
74) n-propylbenzene	12.57	91	307228	21.152	ug/l	100
75) 2-Chlorotoluene	12.65	91	187348	21.663	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	219236	20.576	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	30230	24.716	ug/l	100
78) 4-Chlorotoluene	12.75	91	189168	21.135	ug/l	100
79) tert-butylbenzene	12.97	119	184497	20.069	ug/l	100
80) 1,2,4-Trimethylbenzene	13.01	105	218181	20.414	ug/l	100
81) sec-Butylbenzene	13.15	105	243163	20.469	ug/l	100
82) p-Isopropyltoluene	13.26	119	213226	19.508	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	103238	17.371	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	99358	17.051	ug/l	100
85) n-Butylbenzene	13.59	91	172188	19.093	ug/l	100
86) Hexachloroethane	13.85	117	41242	25.242	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	100176	17.749	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.24	75	16194	24.325	ug/l	100
89) 1,2,4-Trichlorobenzene	14.88	180	45992	14.279	ug/l	100
90) Hexachlorobutadiene	14.99	225	27270	18.742	ug/l	100
91) Naphthalene	15.10	128	124472	13.945	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	47562	15.026	ug/l	100

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

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