

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110220\
 Data File : VN064414.D
 Acq On : 2 Nov 2020 14:37
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 11/3/2020 2:20:46 PM

Quant Time: Nov 02 15:19:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 02 15:04:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	55142m	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	321391	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	294368	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	143363	29.41	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.03%
60) 4-Bromofluorobenzene	12.37	95	150301	29.11	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.03%
63) Toluene-d8	10.06	98	394384	30.14	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	184976	42.672	ug/l 99
3) Chloromethane	2.04	50	190193	46.188	ug/l 96
4) Vinyl Chloride	2.16	62	199055	49.163	ug/l 96
5) Bromomethane	2.53	94	125667	49.913	ug/l 97
6) Chloroethane	2.67	64	116469	50.986	ug/l 98
7) Trichlorofluoromethane	2.98	101	325171	51.392	ug/l 92
8) Diethyl Ether	3.37	74	96633	48.522	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.72	101	157686	48.918	ug/l 99
10) 1,1-Dichloroethene	3.70	96	152205	49.619	ug/l 98
11) Methyl Iodide	3.91	142	208586	47.915	ug/l 97
12) Methyl Acetate	4.28	43	161512	44.931	ug/l 98
13) Acrolein	3.56	56	81387	307.639	ug/l 95
14) Acrylonitrile	4.93	53	371470	236.289	ug/l 99
15) Acetone	3.77	58	131907	279.358	ug/l 94
16) Carbon Disulfide	4.01	76	430897	47.258	ug/l 99
17) Allyl chloride	4.28	41	263726	45.473	ug/l 95
18) Methylene Chloride	4.50	84	175573	49.964	ug/l 97
19) trans-1,2-Dichloroethene	4.99	96	166457	49.283	ug/l 97
20) Diisopropyl ether	5.90	45	589870	49.913	ug/l 94
21) 1,1-Dichloroethane	5.79	63	323200	48.766	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	197325	50.745	ug/l 98
23) tert-Butyl Alcohol	4.72	59	143705	204.466	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	553099	48.066	ug/l # 62
25) Chloroform	7.33	83	347133	50.476	ug/l 97
26) Cyclohexane	7.61	56	263596	48.904	ug/l 99
29) 1,1-Dichloropropene	7.75	75	260025	47.733	ug/l 87
30) 2-Butanone	6.78	43	603545	233.589	ug/l 100
31) 2,2-Dichloropropane	6.78	77	315463	48.003	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	332427	48.165	ug/l 99
33) Carbon Tetrachloride	7.73	117	305825	48.533	ug/l 98
34) Benzene	8.00	78	716596	48.420	ug/l # 92
35) Methacrylonitrile	7.14	41	133421m	50.759	ug/l
36) 1,2-Dichloroethane	8.08	62	295733	45.563	ug/l 100
37) Trichloroethene	8.80	130	200532	49.521	ug/l 98
38) Methylcyclohexane	9.05	83	232569	44.344	ug/l 97
39) 1,2-Dichloropropane	9.08	63	185512	47.206	ug/l 98
40) Dibromomethane	9.17	93	134211	48.534	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	284769	47.762	ug/l	100
42) Vinyl Acetate	5.84	43	2515101	231.377	ug/l	99
43) Ethyl Acetate	6.88	43	233410	46.133	ug/l #	79
44) Isopropyl Acetate	8.12	43	408448	43.303	ug/l #	80
45) 1,4-Dioxane	9.16	88	58071	811.538	ug/l	94
46) Methyl methacrylate	9.16	41	203462	44.281	ug/l	98
47) n-amyl Acetate	12.04	43	357662	45.039	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	316645	47.841	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	324395	47.513	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	181031	48.966	ug/l	92
51) Ethyl methacrylate	10.40	69	272222	47.985	ug/l	93
52) 1,3-Dichloropropane	10.68	76	311297	48.112	ug/l	98
53) Dibromochloromethane	10.87	129	221637	49.163	ug/l	97
54) 1,2-Dibromoethane	10.97	107	194234	49.223	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	674352	237.558	ug/l	99
56) Bromoform	12.10	173	159182	49.890	ug/l	99
58) 4-Methyl-2-Pentanone	9.95	43	1173090	222.509	ug/l	99
59) 2-Hexanone	10.72	43	898286	226.241	ug/l	99
61) Tetrachloroethene	10.60	164	195957	49.739	ug/l	98
62) Toluene	10.12	91	798837	49.142	ug/l	99
64) Chlorobenzene	11.40	112	508614	50.111	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	200122	49.978	ug/l	98
66) Ethyl Benzene	11.48	91	901853	49.037	ug/l	98
67) m/p-Xylenes	11.59	106	689220	101.181	ug/l	98
68) o-Xylene	11.92	106	325820	48.735	ug/l	96
69) Styrene	11.94	104	554973	50.181	ug/l	98
70) Isopropylbenzene	12.22	105	850461	48.325	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	237984	47.902	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	261740m	50.890	ug/l	
73) Bromobenzene	12.50	156	222297	50.909	ug/l	99
74) n-propylbenzene	12.56	91	952767	47.820	ug/l	98
75) 2-Chlorotoluene	12.65	91	596120	48.178	ug/l	96
76) 1,3,5-Trimethylbenzene	12.70	105	711268	48.118	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	94468	48.902	ug/l	92
78) 4-Chlorotoluene	12.75	91	620707	48.060	ug/l	96
79) tert-butylbenzene	12.97	119	563925	46.173	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	713037	47.753	ug/l	98
81) sec-Butylbenzene	13.14	105	718394	45.662	ug/l	100
82) p-Isopropyltoluene	13.26	119	664118	46.052	ug/l	99
83) 1,3-Dichlorobenzene	13.25	146	377412	50.074	ug/l	99
84) 1,4-Dichlorobenzene	13.33	146	379924	50.074	ug/l	99
85) n-Butylbenzene	13.59	91	534629	42.879	ug/l	96
86) Hexachloroethane	13.85	117	125432	46.945	ug/l	95
87) 1,2-Dichlorobenzene	13.62	146	369358	49.736	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	54045	44.322	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	184702	45.037	ug/l	94
90) Hexachlorobutadiene	14.98	225	96533	43.663	ug/l	99
91) Naphthalene	15.10	128	563577	46.457	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	181239	46.151	ug/l	99

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

