

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061396.D
 Acq On : 14 May 2020 15:46
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 5/15/2020 2:10:46 PM

Quant Time: May 14 16:08:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 15:40:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	22587	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	130754	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	120353	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	59127	29.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.83%
60) 4-Bromofluorobenzene	12.38	95	63932	31.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.70%
63) Toluene-d8	10.06	98	166334	29.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	159232	156.089	ug/l 99
3) Chloromethane	2.03	50	257599	134.090	ug/l 99
4) Vinyl Chloride	2.16	62	351551	137.067	ug/l 98
5) Bromomethane	2.53	94	169586	128.697	ug/l 98
6) Chloroethane	2.67	64	227323	129.685	ug/l 99
7) Trichlorofluoromethane	2.98	101	374666	136.357	ug/l 100
8) Diethyl Ether	3.37	74	126864	147.337	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	171367	148.391	ug/l 94
10) 1,1-Dichloroethene	3.70	96	180311	148.280	ug/l 99
11) Methyl Iodide	3.91	142	206032	158.738	ug/l 99
12) Methyl Acetate	4.27	43	218517	147.882	ug/l 99
13) Acrolein	3.56	56	164203	642.970	ug/l 99
14) Acrylonitrile	4.93	53	511954	737.802	ug/l 97
15) Acetone	3.77	58	113230	666.587	ug/l 99
16) Carbon Disulfide	4.01	76	423079	118.909	ug/l 100
17) Allyl chloride	4.27	41	358034	145.787	ug/l 100
18) Methylene Chloride	4.50	84	220254	150.538	ug/l 97
19) trans-1,2-Dichloroethene	4.99	96	218773	151.898	ug/l 93
20) Diisopropyl ether	5.90	45	829437	144.914	ug/l 92
21) 1,1-Dichloroethane	5.80	63	437367	146.685	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	252648	149.035	ug/l 98
23) tert-Butyl Alcohol	4.73	59	156437	695.336	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	736673	149.519	ug/l 100
25) Chloroform	7.33	83	424557	146.939	ug/l 97
26) Cyclohexane	7.61	56	402323	140.052	ug/l # 97
29) 1,1-Dichloropropene	7.75	75	336159	145.658	ug/l 99
30) 2-Butanone	6.78	43	700099	714.470	ug/l 99
31) 2,2-Dichloropropane	6.78	77	387622	143.311	ug/l 97
32) 1,1,1-Trichloroethane	7.53	97	381191	148.110	ug/l 100
33) Carbon Tetrachloride	7.73	117	306954	157.277	ug/l 99
34) Benzene	8.00	78	953756	146.180	ug/l # 91
35) Methacrylonitrile	7.12	41	140149	142.527	ug/l 87
36) 1,2-Dichloroethane	8.09	62	363584	144.923	ug/l 100
37) Trichloroethene	8.80	130	241689	151.521	ug/l 99
38) Methylcyclohexane	9.05	83	400453	144.276	ug/l 97
39) 1,2-Dichloropropane	9.08	63	255876	141.819	ug/l 98
40) Dibromomethane	9.18	93	164661	149.236	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	354966	148.065	ug/l	99
42) Vinyl Acetate	5.84	43	3388555	731.544	ug/l	98
43) Ethyl Acetate	6.88	43	315533	152.754	ug/l #	94
44) Isopropyl Acetate	8.13	43	576093	141.496	ug/l	99
45) 1,4-Dioxane	9.17	88	47292	2971.441	ug/l	95
46) Methyl methacrylate	9.17	41	271279	141.732	ug/l	96
47) n-amyl Acetate	12.04	43	541981	151.198	ug/l	95
48) t-1,3-Dichloropropene	10.35	75	425749	151.100	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	439589	146.612	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	226665	148.409	ug/l	99
51) Ethyl methacrylate	10.40	69	391643	148.951	ug/l	95
52) 1,3-Dichloropropane	10.68	76	411035	147.137	ug/l	99
53) Dibromochloromethane	10.87	129	257189	155.050	ug/l	100
54) 1,2-Dibromoethane	10.98	107	236273	150.311	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	898933	779.709	ug/l	99
56) Bromoform	12.10	173	169668	164.733	ug/l #	98
58) 4-Methyl-2-Pentanone	9.95	43	1612267	731.519	ug/l	99
59) 2-Hexanone	10.72	43	1153301	741.825	ug/l	99
61) Tetrachloroethene	10.60	164	231193	154.544	ug/l	96
62) Toluene	10.12	91	1056652	151.775	ug/l	97
64) Chlorobenzene	11.41	112	635568	154.875	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	233159	155.651	ug/l	98
66) Ethyl Benzene	11.48	91	1220018	152.933	ug/l	99
67) m/p-Xylenes	11.60	106	921722	314.728	ug/l	99
68) o-Xylene	11.92	106	440427	157.628	ug/l	99
69) Styrene	11.94	104	783639	164.465	ug/l	98
70) Isopropylbenzene	12.22	105	1186125	156.425	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	312010	147.116	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	320269m	161.342	ug/l	
73) Bromobenzene	12.50	156	252019	160.978	ug/l	95
74) n-propylbenzene	12.57	91	1397796	154.687	ug/l	100
75) 2-Chlorotoluene	12.65	91	802700	154.958	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	998502	157.046	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	134296	162.880	ug/l	95
78) 4-Chlorotoluene	12.75	91	861895	159.942	ug/l	99
79) tert-butylbenzene	12.97	119	823524	155.635	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	1001144	157.940	ug/l	99
81) sec-Butylbenzene	13.15	105	1146670	157.741	ug/l	99
82) p-Isopropyltoluene	13.26	119	1043432	159.845	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	479367	165.795	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	473040	165.173	ug/l	99
85) n-Butylbenzene	13.59	91	966816	160.018	ug/l	98
86) Hexachloroethane	13.85	117	147669	162.942	ug/l	84
87) 1,2-Dichlorobenzene	13.63	146	446255	161.875	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	67278	149.265	ug/l	98
89) 1,2,4-Trichlorobenzene	14.89	180	269145	172.242	ug/l	98
90) Hexachlorobutadiene	14.99	225	102360	157.792	ug/l	98
91) Naphthalene	15.10	128	850173	173.189	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	255574	167.323	ug/l	98

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

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