

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063032.D
 Acq On : 20 Aug 2020 12:36
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 9:22:03 AM

Quant Time: Aug 20 13:55:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 13:39:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	31926	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	161719	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	153206	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	69705	30.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.70%
60) 4-Bromofluorobenzene	12.38	95	65964	27.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.83%
63) Toluene-d8	10.06	98	210908	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	8347	3.657 ug/l	92
3) Chloromethane	2.04	50	10215	4.044 ug/l	98
4) Vinyl Chloride	2.16	62	10593	4.166 ug/l	100
5) Bromomethane	2.52	94	8026	5.121 ug/l	98
6) Chloroethane	2.67	64	6712	4.466 ug/l	97
7) Trichlorofluoromethane	2.98	101	14342	4.677 ug/l	99
8) Diethyl Ether	3.38	74	4991	4.894 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.72	101	9268	5.590 ug/l	98
10) 1,1-Dichloroethene	3.70	96	7716	5.179 ug/l	96
11) Methyl Iodide	3.91	142	7848	3.839 ug/l	89
12) Methyl Acetate	4.29	43	9570	4.819 ug/l	98
13) Acrolein	3.58	56	4788	23.525 ug/l	100
14) Acrylonitrile	4.94	53	20023	23.027 ug/l	96
15) Acetone	3.78	58	6428	25.542 ug/l	95
16) Carbon Disulfide	4.01	76	19935	4.984 ug/l	96
17) Allyl chloride	4.28	41	13855	5.068 ug/l	99
18) Methylene Chloride	4.50	84	13005	6.239 ug/l	95
19) trans-1,2-Dichloroethene	4.99	96	8505	5.191 ug/l	97
20) Diisopropyl ether	5.90	45	28516	4.454 ug/l	91
21) 1,1-Dichloroethane	5.80	63	18683	5.317 ug/l	99
22) cis-1,2-Dichloroethene	6.78	96	10592m	5.217 ug/l	
23) tert-Butyl Alcohol	4.73	59	8053m	28.269 ug/l	
24) Methyl tert-Butyl Ether	5.00	73	25112	4.595 ug/l	96
25) Chloroform	7.33	83	18724	5.350 ug/l	99
26) Cyclohexane	7.61	56	12007	3.969 ug/l	# 98
29) 1,1-Dichloropropene	7.75	75	11456	4.878 ug/l	99
30) 2-Butanone	6.79	43	27540	25.159 ug/l	97
31) 2,2-Dichloropropane	6.77	77	15494	5.428 ug/l	98
32) 1,1,1-Trichloroethane	7.53	97	15013	5.307 ug/l	100
33) Carbon Tetrachloride	7.73	117	12692	5.269 ug/l	95
34) Benzene	8.00	78	38247	5.082 ug/l	# 63
35) Methacrylonitrile	7.13	41	4484	4.392 ug/l	81
36) 1,2-Dichloroethane	8.09	62	13725	5.345 ug/l	96
37) Trichloroethene	8.81	130	9586	5.201 ug/l	97
38) Methylcyclohexane	9.05	83	11717	3.978 ug/l	99
39) 1,2-Dichloropropane	9.09	63	11153	5.092 ug/l	99
40) Dibromomethane	9.18	93	6658	5.235 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	14871	5.277	ug/l	91
42) Vinyl Acetate	5.85	43	108729	26.220	ug/l	99
43) Ethyl Acetate	6.89	43	10798	5.168	ug/l	99
44) Isopropyl Acetate	8.13	43	17337	4.943	ug/l	99
45) 1,4-Dioxane	9.17	88	2913	88.674	ug/l	97
46) Methyl methacrylate	9.17	41	7969	4.615	ug/l	98
47) n-amyl Acetate	12.05	43	13125	4.216	ug/l	94
48) t-1,3-Dichloropropene	10.36	75	14237	4.783	ug/l	91
49) cis-1,3-Dichloropropene	9.81	75	15066	4.650	ug/l	94
50) 1,1,2-Trichloroethane	10.54	97	10448	5.328	ug/l	91
51) Ethyl methacrylate	10.40	69	11073	4.151	ug/l	97
52) 1,3-Dichloropropane	10.68	76	16137	4.981	ug/l	98
53) Dibromochloromethane	10.87	129	10386	4.827	ug/l	98
54) 1,2-Dibromoethane	10.98	107	9139	4.858	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	9225	16.834	ug/l	98
56) Bromoform	12.10	173	7600	4.823	ug/l #	89
58) 4-Methyl-2-Pentanone	9.95	43	50866	23.080	ug/l	98
59) 2-Hexanone	10.72	43	36648	23.310	ug/l	95
61) Tetrachloroethene	10.60	164	9129	5.435	ug/l	96
62) Toluene	10.13	91	41635	5.128	ug/l	98
64) Chlorobenzene	11.41	112	24738	4.924	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	9953	4.998	ug/l	98
66) Ethyl Benzene	11.48	91	40124	4.533	ug/l	98
67) m/p-Xylenes	11.60	106	28593	8.623	ug/l	99
68) o-Xylene	11.92	106	14106	4.429	ug/l	99
69) Styrene	11.94	104	22034	3.960	ug/l	96
70) Isopropylbenzene	12.22	105	37192	4.292	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	14166	5.098	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	11816m	4.920	ug/l	
73) Bromobenzene	12.50	156	11345	4.855	ug/l	95
74) n-propylbenzene	12.57	91	44689	4.300	ug/l	99
75) 2-Chlorotoluene	12.65	91	28587	4.615	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	30363	4.106	ug/l	94
77) t-1,4-Dichloro-2-butene	12.27	75	3549	4.073	ug/l	99
78) 4-Chlorotoluene	12.75	91	28123	4.403	ug/l	99
79) tert-butylbenzene	12.97	119	26002	4.179	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	27466	3.816	ug/l	97
81) sec-Butylbenzene	13.15	105	35014	4.085	ug/l	99
82) p-Isopropyltoluene	13.26	119	29345	3.862	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	17724	4.344	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	17059	4.278	ug/l	96
85) n-Butylbenzene	13.59	91	23549	3.730	ug/l	98
86) Hexachloroethane	13.85	117	6844	4.574	ug/l	94
87) 1,2-Dichlorobenzene	13.63	146	16828	4.307	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.25	75	1935	4.390	ug/l	90
89) 1,2,4-Trichlorobenzene	14.89	180	6617	3.432	ug/l	99
90) Hexachlorobutadiene	14.98	225	7471	5.235	ug/l	95
91) Naphthalene	15.10	128	15900	3.732	ug/l	97
92) 1,2,3-Trichlorobenzene	15.29	180	7296	3.790	ug/l	97

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

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