

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\
 Data File : VN062939.D
 Acq On : 14 Aug 2020 16:40
 Operator : JC/MD
 Sample : VN0814WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0814WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:45:08 PM

Quant Time: Aug 14 17:40:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 14 06:20:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	29515	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	148779	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	127348	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	75005	28.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.83%
60) 4-Bromofluorobenzene	12.38	95	65166	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	10.06	98	185694	31.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	41861	16.543	ug/l 97
3) Chloromethane	2.03	50	41486	18.928	ug/l 95
4) Vinyl Chloride	2.16	62	57127	24.672	ug/l 98
5) Bromomethane	2.52	94	31083	15.566	ug/l 100
6) Chloroethane	2.66	64	32860	16.365	ug/l 96
7) Trichlorofluoromethane	2.98	101	72601	16.081	ug/l 99
8) Diethyl Ether	3.37	74	15240	15.422	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.72	101	25836	17.394	ug/l 96
10) 1,1-Dichloroethene	3.69	96	21964	16.130	ug/l 98
11) Methyl Iodide	3.91	142	21967	11.614	ug/l 93
12) Methyl Acetate	4.28	43	31434	15.241	ug/l 97
13) Acrolein	3.56	56	17887	67.880	ug/l 97
14) Acrylonitrile	4.93	53	66576	73.946	ug/l 94
15) Acetone	3.78	58	22464	93.416	ug/l 92
16) Carbon Disulfide	4.01	76	59925	15.430	ug/l 97
17) Allyl chloride	4.28	41	37411	15.948	ug/l 96
18) Methylene Chloride	4.49	84	26200	14.871	ug/l 98
19) trans-1,2-Dichloroethene	4.98	96	22525	14.811	ug/l 98
20) Diisopropyl ether	5.90	45	87951	16.016	ug/l 97
21) 1,1-Dichloroethane	5.80	63	48265	15.016	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	28623	15.741	ug/l # 86
23) tert-Butyl Alcohol	4.74	59	26648m	69.182	ug/l
24) Methyl tert-Butyl Ether	4.99	73	85858	14.509	ug/l # 80
25) Chloroform	7.33	83	54301	15.570	ug/l 98
26) Cyclohexane	7.61	56	43312	15.917	ug/l # 97
29) 1,1-Dichloropropene	7.75	75	35481	16.167	ug/l 98
30) 2-Butanone	6.78	43	96608	85.273	ug/l 99
31) 2,2-Dichloropropane	6.77	77	49028	22.436	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	47877	15.922	ug/l 98
33) Carbon Tetrachloride	7.73	117	42359	15.886	ug/l 92
34) Benzene	8.00	78	108997	16.521	ug/l 98
35) Methacrylonitrile	7.12	41	13502	13.434	ug/l 97
36) 1,2-Dichloroethane	8.08	62	47337	16.520	ug/l 99
37) Trichloroethene	8.80	130	30640	18.724	ug/l 98
38) Methylcyclohexane	9.05	83	40630	15.478	ug/l 97
39) 1,2-Dichloropropane	9.08	63	27804	15.439	ug/l 100
40) Dibromomethane	9.17	93	19750	16.191	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	43685	15.957	ug/l	99
42) Vinyl Acetate	5.84	43	280815	73.331	ug/l #	87
43) Ethyl Acetate	6.88	43	34715	15.599	ug/l #	83
44) Isopropyl Acetate	8.12	43	57949	15.946	ug/l	94
45) 1,4-Dioxane	9.16	88	11261	316.411	ug/l	96
46) Methyl methacrylate	9.17	41	27266	15.004	ug/l	92
47) n-amyl Acetate	12.05	43	40208	12.402	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	43156	15.090	ug/l	94
49) cis-1,3-Dichloropropene	9.81	75	45511	15.836	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	25630	14.619	ug/l	96
51) Ethyl methacrylate	10.40	69	36363	13.625	ug/l	96
52) 1,3-Dichloropropane	10.68	76	43619	14.400	ug/l	99
53) Dibromochloromethane	10.87	129	32177	15.354	ug/l	98
54) 1,2-Dibromoethane	10.98	107	25733	14.344	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	59506	92.136	ug/l	98
56) Bromoform	12.10	173	21720	14.602	ug/l	96
58) 4-Methyl-2-Pentanone	9.95	43	173421	78.260	ug/l	100
59) 2-Hexanone	10.72	43	120555	74.508	ug/l	99
61) Tetrachloroethene	10.60	164	22199	16.861	ug/l	96
62) Toluene	10.12	91	110962	16.526	ug/l	98
64) Chlorobenzene	11.41	112	68064	16.159	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	28534	16.382	ug/l	98
66) Ethyl Benzene	11.48	91	118882	15.904	ug/l	100
67) m/p-Xylenes	11.60	106	90340	32.648	ug/l	100
68) o-Xylene	11.92	106	42122	15.857	ug/l	98
69) Styrene	11.94	104	72912	15.459	ug/l	99
70) Isopropylbenzene	12.22	105	121434	16.064	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	37775	15.182	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	38982m	15.820	ug/l	
73) Bromobenzene	12.50	156	28476	15.363	ug/l	96
74) n-propylbenzene	12.57	91	139672	16.011	ug/l	99
75) 2-Chlorotoluene	12.65	91	86470	15.790	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	105755	15.735	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	12067	15.208	ug/l	95
78) 4-Chlorotoluene	12.75	91	88024	15.803	ug/l	100
79) tert-butylbenzene	12.97	119	86677	15.612	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	99322	15.121	ug/l	100
81) sec-Butylbenzene	13.15	105	114821	15.666	ug/l	100
82) p-Isopropyltoluene	13.27	119	102566	15.651	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	50077	15.417	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	51133	16.034	ug/l	93
85) n-Butylbenzene	13.59	91	77675	13.904	ug/l	97
86) Hexachloroethane	13.85	117	21050	14.827	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	49003	14.617	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.25	75	7603	12.956	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	20179	13.069	ug/l	99
90) Hexachlorobutadiene	14.98	225	17111	16.587	ug/l	96
91) Naphthalene	15.10	128	47486	11.361	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	22657	14.653	ug/l	93

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

