

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\
 Data File : VN062927.D
 Acq On : 13 Aug 2020 22:32
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 9:19:56 AM

Quant Time: Aug 14 05:39:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 14 05:30:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	27216	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	138220	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	125149	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	73435	31.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.63%
60) 4-Bromofluorobenzene	12.38	95	64846	30.50	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.67%
63) Toluene-d8	10.06	98	178199	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	8800	4.921 ug/l	90
3) Chloromethane	2.03	50	9334	4.167 ug/l	94
4) Vinyl Chloride	2.16	62	9316	4.652 ug/l	100
5) Bromomethane	2.51	94	10206	8.596 ug/l	96
6) Chloroethane	2.66	64	9167	7.786 ug/l #	85
7) Trichlorofluoromethane	2.98	101	20604	7.330 ug/l	100
8) Diethyl Ether	3.37	74	4998	4.587 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	7871	5.252 ug/l	90
10) 1,1-Dichloroethene	3.70	96	7194m	4.799 ug/l	
11) Methyl Iodide	3.91	142	8147	4.342 ug/l	94
12) Methyl Acetate	4.28	43	9898m	4.809 ug/l	
13) Acrolein	3.57	56	6598	22.568 ug/l	100
14) Acrylonitrile	4.94	53	17916	18.998 ug/l #	17
15) Acetone	3.78	58	5447	19.846 ug/l	93
16) Carbon Disulfide	4.00	76	22952	4.819 ug/l #	95
17) Allyl chloride	4.27	41	11310	3.720 ug/l	94
18) Methylene Chloride	4.50	84	9354	5.054 ug/l	96
19) trans-1,2-Dichloroethene	4.99	96	7986	4.821 ug/l	91
20) Diisopropyl ether	5.90	45	22804	3.524 ug/l #	86
21) 1,1-Dichloroethane	5.80	63	15822	4.532 ug/l #	94
22) cis-1,2-Dichloroethene	6.79	96	8695m	4.594 ug/l	
23) tert-Butyl Alcohol	4.73	59	8664m	26.209 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	24940	4.384 ug/l #	58
25) Chloroform	7.33	83	16941	5.145 ug/l	96
26) Cyclohexane	7.62	56	10880	3.585 ug/l #	97
29) 1,1-Dichloropropene	7.75	75	10688	4.680 ug/l	83
30) 2-Butanone	6.79	43	25277	21.389 ug/l #	94
31) 2,2-Dichloropropane	6.78	77	11651	4.625 ug/l #	72
32) 1,1,1-Trichloroethane	7.53	97	15527	6.044 ug/l	97
33) Carbon Tetrachloride	7.74	117	14072	6.276 ug/l	97
34) Benzene	8.00	78	33674	4.972 ug/l #	67
35) Methacrylonitrile	7.12	41	3811	3.715 ug/l	89
36) 1,2-Dichloroethane	8.09	62	15330	6.045 ug/l #	85
37) Trichloroethene	8.80	130	8509	5.476 ug/l	97
38) Methylcyclohexane	9.05	83	11140	4.308 ug/l	97
39) 1,2-Dichloropropane	9.08	63	8482	4.429 ug/l	96
40) Dibromomethane	9.18	93	6235	5.469 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.37	83	13293	5.428	ug/l	95
42) Vinyl Acetate	5.85	43	95329	19.948	ug/l	99
43) Ethyl Acetate	6.89	43	11858	4.956	ug/l	99
44) Isopropyl Acetate	8.13	43	17172	4.301	ug/l	94
45) 1,4-Dioxane	9.18	88	3366	115.407	ug/l #	92
46) Methyl methacrylate	9.17	41	8444	4.423	ug/l	88
47) n-amyl Acetate	12.05	43	13245	3.880	ug/l	94
48) t-1,3-Dichloropropene	10.35	75	13387	4.793	ug/l	92
49) cis-1,3-Dichloropropene	9.81	75	13424	4.529	ug/l	94
50) 1,1,2-Trichloroethane	10.53	97	8604	5.365	ug/l	94
51) Ethyl methacrylate	10.40	69	10729	4.080	ug/l	95
52) 1,3-Dichloropropane	10.68	76	14827	5.097	ug/l	95
53) Dibromochloromethane	10.87	129	9820	5.509	ug/l	95
54) 1,2-Dibromoethane	10.98	107	8868	5.400	ug/l	92
55) 2-Chloroethyl vinyl ether	9.66	63	12775	16.051	ug/l	99
56) Bromoform	12.10	173	6748	5.501	ug/l #	99
58) 4-Methyl-2-Pentanone	9.96	43	54082	23.009	ug/l	98
59) 2-Hexanone	10.72	43	36826	21.403	ug/l	96
61) Tetrachloroethene	10.60	164	7680	6.049	ug/l	87
62) Toluene	10.13	91	36703	5.301	ug/l	98
64) Chlorobenzene	11.41	112	22617	5.463	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	9369	5.965	ug/l	97
66) Ethyl Benzene	11.48	91	36362	4.744	ug/l	100
67) m/p-Xylenes	11.59	106	25680	9.111	ug/l	95
68) o-Xylene	11.92	106	12341	4.599	ug/l	96
69) Styrene	11.94	104	21133	4.571	ug/l	98
70) Isopropylbenzene	12.22	105	36108	4.948	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	13672	5.772	ug/l	94
72) 1,2,3-Trichloropropane	12.53	75	13356m	5.707	ug/l	
73) Bromobenzene	12.50	156	9711	5.671	ug/l	99
74) n-propylbenzene	12.57	91	41524	4.812	ug/l	100
75) 2-Chlorotoluene	12.65	91	27554	5.248	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	31390	4.999	ug/l	99
77) t-1,4-Dichloro-2-butene	12.28	75	3950	4.720	ug/l	94
78) 4-Chlorotoluene	12.75	91	26591	4.978	ug/l	100
79) tert-butylbenzene	12.97	119	25372	4.897	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	28819	4.690	ug/l	99
81) sec-Butylbenzene	13.15	105	33731	4.861	ug/l	99
82) p-Isopropyltoluene	13.26	119	27634	4.504	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	15000	5.036	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	13932	4.750	ug/l	98
85) n-Butylbenzene	13.59	91	20610	3.971	ug/l	100
86) Hexachloroethane	13.85	117	7124	5.921	ug/l	89
87) 1,2-Dichlorobenzene	13.63	146	15082	5.254	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.25	75	2732	6.073	ug/l #	82
89) 1,2,4-Trichlorobenzene	14.89	180	4181	2.999	ug/l	97
90) Hexachlorobutadiene	14.99	225	4945	6.083	ug/l	91
91) Naphthalene	15.11	128	10372	2.779	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.28	180	4502	3.216	ug/l	89

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

