

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058970.D
 Acq On : 24 Oct 2019 18:30
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/25/2019 2:36:21 PM

Quant Time: Oct 25 03:14:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	58331	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	328835	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	304524	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	159939	32.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.70%
60) 4-Bromofluorobenzene	12.40	95	153992	28.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.37%
63) Toluene-d8	10.08	98	439122	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	63748	20.170 ug/l	98
3) Chloromethane	2.04	50	82416	19.522 ug/l	97
4) Vinyl Chloride	2.17	62	88028	20.175 ug/l	100
5) Bromomethane	2.55	94	48429	17.977 ug/l	98
6) Chloroethane	2.69	64	59431	21.670 ug/l	96
7) Trichlorofluoromethane	3.00	101	119657	22.281 ug/l	100
8) Diethyl Ether	3.39	74	40269	19.660 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.74	101	65588	21.107 ug/l	99
10) 1,1-Dichloroethene	3.72	96	60162	19.712 ug/l	96
11) Methyl Iodide	3.93	142	52860	12.436 ug/l	97
12) Methyl Acetate	4.30	43	108943	22.311 ug/l	96
13) Acrolein	3.59	56	38317	71.019 ug/l	96
14) Acrylonitrile	4.96	53	200275	104.092 ug/l	99
15) Acetone	3.79	58	58190	101.888 ug/l	99
16) Carbon Disulfide	4.03	76	177766	19.970 ug/l	100
17) Allyl chloride	4.30	41	123225	20.285 ug/l	93
18) Methylene Chloride	4.53	84	77622	21.003 ug/l	98
19) trans-1,2-Dichloroethene	5.02	96	67705	20.377 ug/l	92
20) Diisopropyl ether	5.93	45	259492	20.967 ug/l	98
21) 1,1-Dichloroethane	5.82	63	144004	21.012 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	77827	19.646 ug/l	97
23) tert-Butyl Alcohol	4.75	59	77691	98.721 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	221950	19.494 ug/l	99
25) Chloroform	7.35	83	141875	20.756 ug/l	95
26) Cyclohexane	7.64	56	116152	19.309 ug/l	# 96
29) 1,1-Dichloropropene	7.78	75	101602	19.628 ug/l	99
30) 2-Butanone	6.81	43	287884	98.417 ug/l	99
31) 2,2-Dichloropropane	6.80	77	119250	19.546 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	121226	20.249 ug/l	100
33) Carbon Tetrachloride	7.76	117	105473	20.353 ug/l	99
34) Benzene	8.02	78	302504	19.850 ug/l	97
35) Methacrylonitrile	7.16	41	49355m	19.100 ug/l	
36) 1,2-Dichloroethane	8.11	62	119075	20.437 ug/l	100
37) Trichloroethene	8.82	130	72557	19.380 ug/l	99
38) Methylcyclohexane	9.07	83	106542	17.752 ug/l	97
39) 1,2-Dichloropropane	9.11	63	85103	20.435 ug/l	98
40) Dibromomethane	9.20	93	53150	20.216 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	109480	20.384	ug/l	97
42) Vinyl Acetate	5.87	43	1066203	104.075	ug/l	99
43) Ethyl Acetate	6.91	43	117916	20.538	ug/l	99
44) Isopropyl Acetate	8.15	43	184354	19.823	ug/l	99
45) 1,4-Dioxane	9.19	88	26655	373.263	ug/l	97
46) Methyl methacrylate	9.19	41	80575	18.873	ug/l	98
47) n-amyl Acetate	12.07	43	150955	18.311	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	118994	19.103	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	126446	19.331	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	76844	20.474	ug/l	98
51) Ethyl methacrylate	10.43	69	110038	18.336	ug/l	97
52) 1,3-Dichloropropane	10.70	76	130964	19.594	ug/l	98
53) Dibromochloromethane	10.90	129	79063	19.629	ug/l	100
54) 1,2-Dibromoethane	11.00	107	76275	19.607	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	259576	86.953	ug/l	100
56) Bromoform	12.13	173	56081	19.987	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	584360	105.189	ug/l	99
59) 2-Hexanone	10.75	43	429736	98.672	ug/l	99
61) Tetrachloroethene	10.63	164	64099	19.479	ug/l	98
62) Toluene	10.15	91	321233	19.611	ug/l	100
64) Chlorobenzene	11.43	112	192545	19.226	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	74801	19.919	ug/l	98
66) Ethyl Benzene	11.51	91	343212	18.922	ug/l	99
67) m/p-Xylenes	11.62	106	253530	37.413	ug/l	99
68) o-Xylene	11.95	106	121469	18.490	ug/l	99
69) Styrene	11.97	104	193345	17.815	ug/l	98
70) Isopropylbenzene	12.25	105	329939	18.603	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	118807	19.898	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	111953m	20.692	ug/l	
73) Bromobenzene	12.53	156	78964	18.330	ug/l	96
74) n-propylbenzene	12.60	91	393258	18.943	ug/l	100
75) 2-Chlorotoluene	12.68	91	236985	18.973	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	284436	18.724	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	38317	18.590	ug/l	96
78) 4-Chlorotoluene	12.78	91	238096	18.495	ug/l	100
79) tert-butylbenzene	13.00	119	237239	18.280	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	283578	18.786	ug/l	100
81) sec-Butylbenzene	13.18	105	321094	18.384	ug/l	99
82) p-Isopropyltoluene	13.29	119	281079	17.921	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	140260	17.993	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	137510	17.660	ug/l	98
85) n-Butylbenzene	13.62	91	245804	17.118	ug/l	99
86) Hexachloroethane	13.88	117	56139	19.668	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	141373	18.370	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	24885	18.725	ug/l	100
89) 1,2,4-Trichlorobenzene	14.92	180	74876	15.409	ug/l	98
90) Hexachlorobutadiene	15.01	225	43955	17.517	ug/l	98
91) Naphthalene	15.13	128	211952	14.773	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	77303	16.342	ug/l	98

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

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