

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090519\
 Data File : VN057700.D
 Acq On : 5 Sep 2019 12:53
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/6/2019 8:26:30 AM

Quant Time: Sep 06 01:45:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	59221	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	348773	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	291575	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	187813	29.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.43%
60) 4-Bromofluorobenzene	12.40	95	139598	28.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.40%
63) Toluene-d8	10.09	98	432456	30.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	83821	19.646	ug/l 95
3) Chloromethane	2.05	50	78312	17.405	ug/l 97
4) Vinyl Chloride	2.18	62	70267	19.097	ug/l 95
5) Bromomethane	2.56	94	46868	19.925	ug/l 100
6) Chloroethane	2.70	64	48871	18.189	ug/l 93
7) Trichlorofluoromethane	3.02	101	136078	19.310	ug/l 98
8) Diethyl Ether	3.40	74	42805	18.467	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	70175	19.162	ug/l 100
10) 1,1-Dichloroethene	3.73	96	63566	19.026	ug/l 97
11) Methyl Iodide	3.94	142	81553	17.627	ug/l 97
12) Methyl Acetate	4.31	43	90709	18.185	ug/l 95
13) Acrolein	3.60	56	19044	67.285	ug/l 92
14) Acrylonitrile	4.97	53	161296	88.846	ug/l 99
15) Acetone	3.81	58	39647	77.856	ug/l 97
16) Carbon Disulfide	4.05	76	155487	18.526	ug/l 95
17) Allyl chloride	4.31	41	136829	19.176	ug/l 99
18) Methylene Chloride	4.54	84	76153	18.190	ug/l 97
19) trans-1,2-Dichloroethene	5.03	96	66896	18.929	ug/l 93
20) Diisopropyl ether	5.93	45	292057	18.995	ug/l 100
21) 1,1-Dichloroethane	5.83	63	148772	18.772	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	81717	18.931	ug/l 98
23) tert-Butyl Alcohol	4.76	59	53753	81.428	ug/l # 100
24) Methyl tert-Butyl Ether	5.03	73	249003	18.757	ug/l 98
25) Chloroform	7.36	83	157414	19.161	ug/l 100
26) Cyclohexane	7.64	56	125755	18.634	ug/l # 95
29) 1,1-Dichloropropene	7.78	75	105829	19.002	ug/l 98
30) 2-Butanone	6.82	43	231353	87.936	ug/l # 98
31) 2,2-Dichloropropane	6.82	77	122681	17.798	ug/l # 75
32) 1,1,1-Trichloroethane	7.56	97	135795	19.694	ug/l 99
33) Carbon Tetrachloride	7.76	117	109250	19.511	ug/l 93
34) Benzene	8.03	78	311325	19.460	ug/l 95
35) Methacrylonitrile	7.16	41	52363	21.726	ug/l 94
36) 1,2-Dichloroethane	8.11	62	136651	19.167	ug/l # 100
37) Trichloroethene	8.83	130	74045	19.492	ug/l 91
38) Methylcyclohexane	9.08	83	117524	19.016	ug/l 98
39) 1,2-Dichloropropane	9.11	63	85309	19.501	ug/l 92
40) Dibromomethane	9.20	93	53971	19.032	ug/l 98

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

41) Bromodichloromethane	9.40	83	114874	18.741	ug/l #	98
42) Vinyl Acetate	5.88	43	1145572	99.066	ug/l	100
43) Ethyl Acetate	6.91	43	93663	17.288	ug/l #	79
44) Isopropyl Acetate	8.15	43	188406	18.601	ug/l	100
45) 1,4-Dioxane	9.19	88	20107	309.249	ug/l #	91
46) Methyl methacrylate	9.19	41	89733	18.258	ug/l	96
47) n-amyl Acetate	12.07	43	124560	15.857	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	112894	17.559	ug/l	92
49) cis-1,3-Dichloropropene	9.83	75	124053	18.084	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	73190	19.136	ug/l	97
51) Ethyl methacrylate	10.43	69	109613	17.581	ug/l	100
52) 1,3-Dichloropropane	10.70	76	126348	18.560	ug/l	99
53) Dibromochloromethane	10.90	129	71484	17.908	ug/l	98
54) 1,2-Dibromoethane	11.00	107	71069	18.588	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	122392	62.129	ug/l	98
56) Bromoform	12.13	173	41398	16.724	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	523378	101.570	ug/l	99
59) 2-Hexanone	10.75	43	340476	93.374	ug/l	98
61) Tetrachloroethene	10.63	164	69239	20.680	ug/l	98
62) Toluene	10.15	91	319034	19.488	ug/l	100
64) Chlorobenzene	11.43	112	182872	19.024	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	70815	20.109	ug/l	95
66) Ethyl Benzene	11.51	91	362276	19.797	ug/l	98
67) m/p-Xylenes	11.62	106	241800	37.676	ug/l	98
68) o-Xylene	11.95	106	119793	18.746	ug/l	95
69) Styrene	11.96	104	178076	17.386	ug/l	98
70) Isopropylbenzene	12.25	105	340025	19.398	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	89285	19.360	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	81037m	18.683	ug/l	
73) Bromobenzene	12.53	156	66961	18.027	ug/l	99
74) n-propylbenzene	12.59	91	343942	17.726	ug/l	99
75) 2-Chlorotoluene	12.68	91	226145	18.616	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	275314	18.920	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	21015	15.872	ug/l	90
78) 4-Chlorotoluene	12.78	91	193833	16.794	ug/l	100
79) tert-butylbenzene	12.99	119	229352	18.352	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	246029	17.995	ug/l	100
81) sec-Butylbenzene	13.17	105	283677	17.614	ug/l	99
82) p-Isopropyltoluene	13.29	119	227683	16.645	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	95522	17.171	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	88057	16.768	ug/l	97
85) n-Butylbenzene	13.62	91	193071	16.058	ug/l	99
86) Hexachloroethane	13.88	117	45122	18.229	ug/l	96
87) 1,2-Dichlorobenzene	13.66	146	96803	18.861	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10384	15.358	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	22440	12.619	ug/l	92
90) Hexachlorobutadiene	15.01	225	33845	17.159	ug/l	98
91) Naphthalene	15.13	128	52645	11.399	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	22183	12.838	ug/l	93

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

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