

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090919\
 Data File : VN057797.D
 Acq On : 9 Sep 2019 13:14
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/13/2019 11:05:09 AM

Quant Time: Sep 09 16:27:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	69979	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	418049	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	376146	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	189273	30.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.93%
60) 4-Bromofluorobenzene	12.40	95	188237	29.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.47%
63) Toluene-d8	10.08	98	545386	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	86733	20.514 ug/l	99
3) Chloromethane	2.03	50	109489	20.768 ug/l	100
4) Vinyl Chloride	2.16	62	114235	21.178 ug/l	98
5) Bromomethane	2.54	94	70662	20.991 ug/l	88
6) Chloroethane	2.68	64	69161	20.631 ug/l	97
7) Trichlorofluoromethane	2.99	101	128691	20.651 ug/l	100
8) Diethyl Ether	3.39	74	52774	20.992 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	80746	20.751 ug/l	99
10) 1,1-Dichloroethene	3.71	96	75252	20.337 ug/l	89
11) Methyl Iodide	3.93	142	100182	20.236 ug/l	97
12) Methyl Acetate	4.31	43	105515	20.779 ug/l #	91
13) Acrolein	3.59	56	25079	91.025 ug/l	91
14) Acrylonitrile	4.96	53	214655	103.693 ug/l #	90
15) Acetone	3.80	58	56762	96.583 ug/l	97
16) Carbon Disulfide	4.03	76	169330	19.652 ug/l	99
17) Allyl chloride	4.30	41	138513	20.428 ug/l	96
18) Methylene Chloride	4.53	84	95954	20.578 ug/l	92
19) trans-1,2-Dichloroethene	5.02	96	84039	20.378 ug/l	96
20) Diisopropyl ether	5.93	45	323752	20.424 ug/l	98
21) 1,1-Dichloroethane	5.82	63	179367	20.522 ug/l	97
22) cis-1,2-Dichloroethene	6.81	96	101792	20.145 ug/l	100
23) tert-Butyl Alcohol	4.77	59	73922m	109.384 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	292011	20.589 ug/l #	100
25) Chloroform	7.36	83	179788	20.204 ug/l	100
26) Cyclohexane	7.64	56	144498	19.676 ug/l #	100
29) 1,1-Dichloropropene	7.78	75	130962	19.914 ug/l	98
30) 2-Butanone	6.82	43	297172	100.216 ug/l	99
31) 2,2-Dichloropropane	6.81	77	132507	19.084 ug/l	99
32) 1,1,1-Trichloroethane	7.56	97	143879	19.458 ug/l	97
33) Carbon Tetrachloride	7.76	117	112410	18.636 ug/l	99
34) Benzene	8.03	78	391501	20.091 ug/l	99
35) Methacrylonitrile	7.15	41	59165	21.512 ug/l	95
36) 1,2-Dichloroethane	8.11	62	150595	19.915 ug/l	99
37) Trichloroethene	8.82	130	93512	19.758 ug/l	98
38) Methylcyclohexane	9.07	83	142492	19.028 ug/l	98
39) 1,2-Dichloropropane	9.11	63	108561	19.838 ug/l	95
40) Dibromomethane	9.20	93	66448	19.964 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	128732	19.184	ug/l	98
42) Vinyl Acetate	5.87	43	1267903	106.387	ug/l	99
43) Ethyl Acetate	6.91	43	123171	20.359	ug/l #	78
44) Isopropyl Acetate	8.15	43	206605	19.586	ug/l #	92
45) 1,4-Dioxane	9.19	88	34526	416.536	ug/l	97
46) Methyl methacrylate	9.19	41	100279	19.461	ug/l	99
47) n-amyl Acetate	12.07	43	185894	19.184	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	132682	18.573	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	150792	18.813	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	94879	19.652	ug/l	95
51) Ethyl methacrylate	10.43	69	148476	19.834	ug/l	98
52) 1,3-Dichloropropane	10.71	76	168834	19.997	ug/l	98
53) Dibromochloromethane	10.90	129	85795	17.994	ug/l	98
54) 1,2-Dibromoethane	11.00	107	92739	19.306	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	354874	99.764	ug/l	99
56) Bromoform	12.13	173	50678	17.157	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	643294	110.282	ug/l	100
59) 2-Hexanone	10.75	43	462762	105.717	ug/l	100
61) Tetrachloroethene	10.63	164	77359	20.228	ug/l	100
62) Toluene	10.15	91	426932	20.498	ug/l	99
64) Chlorobenzene	11.43	112	261231	20.219	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	88717	19.776	ug/l	96
66) Ethyl Benzene	11.51	91	469346	20.648	ug/l	100
67) m/p-Xylenes	11.62	106	345970	39.877	ug/l	99
68) o-Xylene	11.95	106	169821	19.980	ug/l	97
69) Styrene	11.97	104	288320	19.896	ug/l	99
70) Isopropylbenzene	12.25	105	462091	20.564	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	141327	20.124	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	125132m	20.076	ug/l	
73) Bromobenzene	12.53	156	103490	19.237	ug/l	100
74) n-propylbenzene	12.59	91	538939	20.993	ug/l	100
75) 2-Chlorotoluene	12.68	91	316641	19.802	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	385247	20.134	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	30915	16.718	ug/l	98
78) 4-Chlorotoluene	12.78	91	318636	19.535	ug/l	99
79) tert-butylbenzene	13.00	119	335961	20.126	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	386464	20.271	ug/l	100
81) sec-Butylbenzene	13.17	105	448228	20.238	ug/l	100
82) p-Isopropyltoluene	13.29	119	396783	20.005	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	189969	18.998	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	191284	19.430	ug/l	98
85) n-Butylbenzene	13.62	91	362313	19.600	ug/l	98
86) Hexachloroethane	13.88	117	54214	17.160	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	191522	19.731	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	22742	18.393	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	114736	19.351	ug/l	96
90) Hexachlorobutadiene	15.01	225	51167	18.790	ug/l	98
91) Naphthalene	15.13	128	331053	20.292	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	112207	19.843	ug/l	98

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

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