

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070919\
 Data File : VN056631.D
 Acq On : 9 Jul 2019 16:12
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/10/2019 9:24:47 AM

Quant Time: Jul 10 01:51:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53923	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	303227	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	267337	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	111281	29.94	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.80%
60) 4-Bromofluorobenzene	12.40	95	123863	30.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.50%
63) Toluene-d8	10.09	98	374195	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	53832	19.907	ug/l 99
3) Chloromethane	2.06	50	71609	18.246	ug/l 98
4) Vinyl Chloride	2.18	62	71916	19.469	ug/l 98
5) Bromomethane	2.53	94	35161	17.841	ug/l 96
6) Chloroethane	2.68	64	40367	19.733	ug/l 99
7) Trichlorofluoromethane	3.00	101	94691	19.971	ug/l 98
8) Diethyl Ether	3.40	74	38082	18.935	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	59721	19.879	ug/l 95
10) 1,1-Dichloroethene	3.73	96	55737	18.910	ug/l 90
11) Methyl Iodide	3.94	142	46633	11.063	ug/l 98
12) Methyl Acetate	4.32	43	71255	17.925	ug/l 95
13) Acrolein	3.60	56	30804	79.368	ug/l 99
14) Acrylonitrile	4.98	53	158487	90.802	ug/l 100
15) Acetone	3.82	58	49016	100.650	ug/l 98
16) Carbon Disulfide	4.04	76	133671	18.860	ug/l 100
17) Allyl chloride	4.32	41	98684	19.131	ug/l 97
18) Methylene Chloride	4.54	84	67674	19.419	ug/l 91
19) trans-1,2-Dichloroethene	5.03	96	61292	19.172	ug/l 96
20) Diisopropyl ether	5.95	45	203269	19.074	ug/l 98
21) 1,1-Dichloroethane	5.84	63	115520	19.216	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	70711	18.809	ug/l 93
23) tert-Butyl Alcohol	4.79	59	52495	80.401	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	183736	18.846	ug/l 99
25) Chloroform	7.37	83	114648	19.457	ug/l 98
26) Cyclohexane	7.65	56	104797	18.926	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	84053	18.772	ug/l 99
30) 2-Butanone	6.83	43	217319	87.547	ug/l 97
31) 2,2-Dichloropropane	6.82	77	82071	19.062	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	90671	18.995	ug/l 98
33) Carbon Tetrachloride	7.77	117	75940	18.767	ug/l 99
34) Benzene	8.04	78	265937	18.993	ug/l 97
35) Methacrylonitrile	7.17	41	38532	17.479	ug/l 98
36) 1,2-Dichloroethane	8.12	62	87545	19.237	ug/l 96
37) Trichloroethene	8.83	130	69763	19.104	ug/l 92
38) Methylcyclohexane	9.08	83	108119	19.267	ug/l 99
39) 1,2-Dichloropropane	9.12	63	72126	19.136	ug/l 96
40) Dibromomethane	9.21	93	44065	18.913	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	83008	19.223	ug/l	98
42) Vinyl Acetate	5.89	43	822390	93.045	ug/l	98
43) Ethyl Acetate	6.93	43	85616	17.830	ug/l	98
44) Isopropyl Acetate	8.16	43	132288	17.658	ug/l	98
45) 1,4-Dioxane	9.20	88	25985	354.480	ug/l	89
46) Methyl methacrylate	9.20	41	65535	17.803	ug/l	96
47) n-amyl Acetate	12.07	43	107511	17.265	ug/l	94
48) t-1,3-Dichloropropene	10.38	75	85865	18.553	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	102149	19.136	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	66596	19.402	ug/l	98
51) Ethyl methacrylate	10.43	69	97122	17.966	ug/l	96
52) 1,3-Dichloropropane	10.71	76	112226	19.241	ug/l	100
53) Dibromochloromethane	10.90	129	63247	18.800	ug/l	99
54) 1,2-Dibromoethane	11.00	107	67326	18.825	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	252382	91.621	ug/l	98
56) Bromoform	12.12	173	43717	17.884	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	427566	88.953	ug/l	97
59) 2-Hexanone	10.75	43	306201	85.848	ug/l	99
61) Tetrachloroethene	10.63	164	66840	19.920	ug/l	98
62) Toluene	10.15	91	287007	19.236	ug/l	99
64) Chlorobenzene	11.43	112	172201	19.157	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	61868	19.111	ug/l	100
66) Ethyl Benzene	11.51	91	306213	18.928	ug/l	99
67) m/p-Xylenes	11.62	106	233262	39.071	ug/l	95
68) o-Xylene	11.94	106	111714	18.921	ug/l	96
69) Styrene	11.96	104	185968	18.931	ug/l	98
70) Isopropylbenzene	12.25	105	299214	19.423	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	94135	18.483	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	79367m	18.531	ug/l	
73) Bromobenzene	12.52	156	77672	19.549	ug/l	94
74) n-propylbenzene	12.59	91	333973	19.109	ug/l	98
75) 2-Chlorotoluene	12.67	91	201569	19.287	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	253630	19.443	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	22297	16.253	ug/l	95
78) 4-Chlorotoluene	12.77	91	194774	19.163	ug/l	98
79) tert-butylbenzene	12.99	119	218784	19.630	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	253325	19.662	ug/l	98
81) sec-Butylbenzene	13.17	105	289423	19.583	ug/l	98
82) p-Isopropyltoluene	13.29	119	262667	19.767	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	128463	19.470	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	120720	18.967	ug/l	99
85) n-Butylbenzene	13.61	91	212866	19.062	ug/l	98
86) Hexachloroethane	13.87	117	37470	18.701	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	131306	19.597	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14411	15.791	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	63164	17.056	ug/l	98
90) Hexachlorobutadiene	15.01	225	45610	19.823	ug/l	98
91) Naphthalene	15.13	128	155524	14.965	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	66577	17.125	ug/l	98

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

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