

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011819\
 Data File : VN053466.D
 Acq On : 18 Jan 2019 12:14
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 10:48:00 AM

Quant Time: Jan 19 00:19:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	131059	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	735236	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	655724	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	247723	29.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.17%
60) 4-Bromofluorobenzene	12.40	95	305507	30.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.50%
63) Toluene-d8	10.09	98	885582	29.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	128017	14.660	ug/l 98
3) Chloromethane	2.06	50	166705	16.266	ug/l 98
4) Vinyl Chloride	2.19	62	170104	16.866	ug/l 96
5) Bromomethane	2.57	94	115202	17.717	ug/l 99
6) Chloroethane	2.71	64	100186	17.245	ug/l 99
7) Trichlorofluoromethane	3.03	101	234321	18.814	ug/l 98
8) Diethyl Ether	3.41	74	87191	18.843	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	143626	18.354	ug/l 94
10) 1,1-Dichloroethene	3.74	96	138103	18.085	ug/l 94
11) Methyl Iodide	3.96	142	207591	18.562	ug/l 99
12) Methyl Acetate	4.33	43	125721	21.122	ug/l 98
13) Acrolein	3.61	56	68025	95.725	ug/l 99
14) Acrylonitrile	4.99	53	270115	101.442	ug/l 99
15) Acetone	3.82	58	67533	119.336	ug/l 93
16) Carbon Disulfide	4.06	76	388418	16.534	ug/l 100
17) Allyl chloride	4.33	41	221930	18.474	ug/l 98
18) Methylene Chloride	4.56	84	163114	18.663	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	151733	18.801	ug/l 90
20) Diisopropyl ether	5.95	45	483329	18.786	ug/l 98
21) 1,1-Dichloroethane	5.86	63	281461	18.790	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	171346	18.848	ug/l 96
23) tert-Butyl Alcohol	4.78	59	39316	87.588	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	383108	19.239	ug/l 97
25) Chloroform	7.37	83	279028	19.379	ug/l 99
26) Cyclohexane	7.66	56	244929	17.530	ug/l # 94
29) 1,1-Dichloropropene	7.79	75	209148	18.779	ug/l 98
30) 2-Butanone	6.84	43	302808	108.982	ug/l 98
31) 2,2-Dichloropropane	6.83	77	208166	19.308	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	232856	19.956	ug/l 97
33) Carbon Tetrachloride	7.78	117	200481	19.628	ug/l 98
34) Benzene	8.04	78	651209	19.456	ug/l 99
35) Methacrylonitrile	7.18	41	67477	18.820	ug/l 96
36) 1,2-Dichloroethane	8.12	62	194354	20.002	ug/l 99
37) Trichloroethene	8.84	130	178769	19.716	ug/l 93
38) Methylcyclohexane	9.08	83	251853	19.334	ug/l 97
39) 1,2-Dichloropropane	9.12	63	170325	19.488	ug/l 97
40) Dibromomethane	9.21	93	101469	20.529	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	207866	19.583	ug/l	99
42) Vinyl Acetate	5.90	43	1530079	100.938	ug/l	97
43) Ethyl Acetate	6.93	43	129613	20.888	ug/l #	68
44) Isopropyl Acetate	8.17	43	236542	20.464	ug/l	96
45) 1,4-Dioxane	9.20	88	23028	325.798	ug/l	90
46) Methyl methacrylate	9.20	41	116745	19.993	ug/l	93
47) n-amyl Acetate	12.07	43	203986	20.095	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	211009	19.477	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	246757	19.343	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	145097	20.474	ug/l	99
51) Ethyl methacrylate	10.43	69	183370	19.853	ug/l	93
52) 1,3-Dichloropropane	10.71	76	245916	20.143	ug/l	100
53) Dibromochloromethane	10.90	129	160674	20.186	ug/l	97
54) 1,2-Dibromoethane	11.01	107	144878	20.264	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	514597	97.081	ug/l	98
56) Bromoform	12.13	173	109978	20.198	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	666468	106.663	ug/l	98
59) 2-Hexanone	10.75	43	452652	104.935	ug/l	96
61) Tetrachloroethene	10.63	164	196522	20.281	ug/l	96
62) Toluene	10.16	91	700530	19.480	ug/l	100
64) Chlorobenzene	11.43	112	440471	19.518	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	157853	19.941	ug/l	98
66) Ethyl Benzene	11.51	91	749862	19.228	ug/l	99
67) m/p-Xylenes	11.62	106	572325	38.803	ug/l	99
68) o-Xylene	11.95	106	283628	19.844	ug/l	96
69) Styrene	11.96	104	459826	19.710	ug/l	99
70) Isopropylbenzene	12.25	105	741603	19.721	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	167405	21.148	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	146430m	21.124	ug/l	
73) Bromobenzene	12.53	156	196379	20.316	ug/l	93
74) n-propylbenzene	12.59	91	851289	19.998	ug/l	98
75) 2-Chlorotoluene	12.68	91	504338	20.005	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	603380	20.227	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	48108	19.751	ug/l	95
78) 4-Chlorotoluene	12.77	91	508563	19.817	ug/l	99
79) tert-butylbenzene	12.99	119	535220	20.573	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	612904	20.500	ug/l	98
81) sec-Butylbenzene	13.17	105	730858	21.215	ug/l	100
82) p-Isopropyltoluene	13.29	119	633714	21.288	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	338532	20.569	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	331444	20.659	ug/l	99
85) n-Butylbenzene	13.62	91	521189	21.529	ug/l	99
86) Hexachloroethane	13.88	117	95227	20.036	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	331945	21.705	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21701	19.169	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	138439	18.651	ug/l	99
90) Hexachlorobutadiene	15.01	225	108188	24.079	ug/l	98
91) Naphthalene	15.13	128	234484	14.889	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	104361	15.759	ug/l	98

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

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