

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\
 Data File : VN058913.D
 Acq On : 22 Oct 2019 16:52
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/23/2019 3:10:01 PM

Quant Time: Oct 23 04:45:43 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	58128	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	313178	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	290792	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	152217	30.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.83%
60) 4-Bromofluorobenzene	12.40	95	146770	28.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.17%
63) Toluene-d8	10.09	98	419256	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	65388	20.762 ug/l	95
3) Chloromethane	2.04	50	89547	21.285 ug/l	98
4) Vinyl Chloride	2.17	62	93475	21.498 ug/l	98
5) Bromomethane	2.55	94	58820	21.911 ug/l	97
6) Chloroethane	2.69	64	60240	22.041 ug/l	100
7) Trichlorofluoromethane	3.00	101	117228	21.905 ug/l	98
8) Diethyl Ether	3.39	74	41583	20.372 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	64202	20.733 ug/l	99
10) 1,1-Dichloroethene	3.72	96	61895	20.351 ug/l	97
11) Methyl Iodide	3.93	142	85459	20.176 ug/l	96
12) Methyl Acetate	4.30	43	99317	20.410 ug/l	99
13) Acrolein	3.58	56	56608	105.288 ug/l	96
14) Acrylonitrile	4.96	53	196443	102.457 ug/l	99
15) Acetone	3.80	58	62599	109.990 ug/l	92
16) Carbon Disulfide	4.03	76	180151	20.308 ug/l	99
17) Allyl chloride	4.30	41	123998	20.484 ug/l	99
18) Methylene Chloride	4.53	84	75735	20.564 ug/l	97
19) trans-1,2-Dichloroethene	5.01	96	68681	20.743 ug/l	89
20) Diisopropyl ether	5.93	45	261522	21.204 ug/l	98
21) 1,1-Dichloroethane	5.82	63	146442	21.442 ug/l	100
22) cis-1,2-Dichloroethene	6.81	96	79620	20.169 ug/l	96
23) tert-Butyl Alcohol	4.76	59	68422	87.247 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	226636	19.975 ug/l	99
25) Chloroform	7.36	83	141378	20.756 ug/l	95
26) Cyclohexane	7.63	56	118399	19.751 ug/l #	97
29) 1,1-Dichloropropene	7.78	75	103363	20.967 ug/l	99
30) 2-Butanone	6.82	43	282688	101.472 ug/l	99
31) 2,2-Dichloropropane	6.81	77	128234	22.069 ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	122617	21.505 ug/l	99
33) Carbon Tetrachloride	7.75	117	104750	21.224 ug/l	99
34) Benzene	8.02	78	307860	21.212 ug/l	97
35) Methacrylonitrile	7.15	41	42732	17.364 ug/l	84
36) 1,2-Dichloroethane	8.11	62	120930	21.793 ug/l	99
37) Trichloroethene	8.82	130	74046	20.767 ug/l	99
38) Methylcyclohexane	9.07	83	109755	19.202 ug/l	96
39) 1,2-Dichloropropane	9.11	63	86516	21.812 ug/l	97
40) Dibromomethane	9.20	93	53375	21.317 ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	110066	21.517	ug/l	99
42) Vinyl Acetate	5.87	43	1069873	109.655	ug/l	100
43) Ethyl Acetate	6.91	43	108567	19.855	ug/l	96
44) Isopropyl Acetate	8.15	43	178044	20.102	ug/l	90
45) 1,4-Dioxane	9.19	88	25505	375.015	ug/l	98
46) Methyl methacrylate	9.19	41	80055	19.688	ug/l	95
47) n-amyl Acetate	12.07	43	143610	18.291	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	121299	20.447	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	132042	21.196	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	75541	21.133	ug/l	96
51) Ethyl methacrylate	10.43	69	109822	19.214	ug/l	98
52) 1,3-Dichloropropane	10.71	76	134213	21.084	ug/l	100
53) Dibromochloromethane	10.90	129	80906	21.091	ug/l	98
54) 1,2-Dibromoethane	11.00	107	77368	20.882	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	262706	92.401	ug/l	100
56) Bromoform	12.13	173	55869	20.907	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	558789	105.336	ug/l	98
59) 2-Hexanone	10.75	43	412750	99.247	ug/l	99
61) Tetrachloroethene	10.63	164	65332	20.791	ug/l	94
62) Toluene	10.15	91	328292	20.988	ug/l	100
64) Chlorobenzene	11.43	112	196118	20.508	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	73258	20.430	ug/l	100
66) Ethyl Benzene	11.51	91	348993	20.149	ug/l	100
67) m/p-Xylenes	11.62	106	256835	39.691	ug/l	98
68) o-Xylene	11.95	106	123946	19.758	ug/l	100
69) Styrene	11.97	104	197810	19.087	ug/l	99
70) Isopropylbenzene	12.25	105	333776	19.708	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	115059	20.180	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	109367m	21.169	ug/l	
73) Bromobenzene	12.53	156	81183	19.735	ug/l	97
74) n-propylbenzene	12.59	91	401233	20.240	ug/l	100
75) 2-Chlorotoluene	12.68	91	238385	19.986	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	287616	19.828	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	37187	18.894	ug/l	96
78) 4-Chlorotoluene	12.78	91	244050	19.853	ug/l	99
79) tert-butylbenzene	13.00	119	242423	19.561	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	285238	19.789	ug/l	99
81) sec-Butylbenzene	13.17	105	328099	19.672	ug/l	100
82) p-Isopropyltoluene	13.29	119	286650	19.139	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	144694	19.438	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	137866	18.542	ug/l	98
85) n-Butylbenzene	13.62	91	248098	18.094	ug/l	100
86) Hexachloroethane	13.88	117	54527	20.005	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	145338	19.777	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	23876	18.814	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	76458	16.477	ug/l	97
90) Hexachlorobutadiene	15.01	225	45395	18.945	ug/l	99
91) Naphthalene	15.13	128	220668	16.107	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	80369	17.793	ug/l	98

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

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