

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058953.D
 Acq On : 24 Oct 2019 12:16
 Operator : JC/SP
 Sample : VN1025WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1025WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/25/2019 2:36:47 PM

Quant Time: Oct 25 01:54:29 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	7.17	128	57338	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	308685	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	288278	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	152405	31.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.40%
60) 4-Bromofluorobenzene	12.40	95	147972	29.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.80%
63) Toluene-d8	10.08	98	420328	30.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	67738	21.804	ug/l 99
3) Chloromethane	2.04	50	89312	21.522	ug/l 98
4) Vinyl Chloride	2.17	62	93137	21.715	ug/l 98
5) Bromomethane	2.55	94	53493	20.201	ug/l 98
6) Chloroethane	2.69	64	62735	23.270	ug/l 98
7) Trichlorofluoromethane	3.00	101	119703	22.675	ug/l 98
8) Diethyl Ether	3.39	74	43232	21.472	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	67364	22.054	ug/l 98
10) 1,1-Dichloroethene	3.72	96	63458	21.152	ug/l 95
11) Methyl Iodide	3.93	142	69437	16.619	ug/l 99
12) Methyl Acetate	4.30	43	102057	21.262	ug/l 98
13) Acrolein	3.58	56	42783	80.670	ug/l 95
14) Acrylonitrile	4.96	53	202221	106.924	ug/l 97
15) Acetone	3.79	58	65377	116.454	ug/l 99
16) Carbon Disulfide	4.03	76	184889	21.130	ug/l 100
17) Allyl chloride	4.30	41	127088m	21.284	ug/l
18) Methylene Chloride	4.53	84	79331	21.837	ug/l 98
19) trans-1,2-Dichloroethene	5.02	96	70453	21.572	ug/l 95
20) Diisopropyl ether	5.93	45	267218	21.965	ug/l 97
21) 1,1-Dichloroethane	5.82	63	149572	22.202	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	81538	20.939	ug/l 97
23) tert-Butyl Alcohol	4.75	59	75613	97.745	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	226765	20.261	ug/l 97
25) Chloroform	7.35	83	144775	21.548	ug/l 100
26) Cyclohexane	7.63	56	118372	20.019	ug/l # 97
29) 1,1-Dichloropropene	7.78	75	104217	21.447	ug/l 99
30) 2-Butanone	6.81	43	292492	106.519	ug/l 99
31) 2,2-Dichloropropane	6.80	77	128085	22.364	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	126407	22.492	ug/l 99
33) Carbon Tetrachloride	7.76	117	109101	22.428	ug/l 97
34) Benzene	8.02	78	315809	22.076	ug/l 98
35) Methacrylonitrile	7.16	41	50697m	20.900	ug/l
36) 1,2-Dichloroethane	8.11	62	124810	22.819	ug/l 100
37) Trichloroethene	8.82	130	74888	21.309	ug/l 100
38) Methylcyclohexane	9.07	83	111724	19.831	ug/l 97
39) 1,2-Dichloropropane	9.11	63	87640	22.417	ug/l 98
40) Dibromomethane	9.20	93	54743	22.182	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	115742	22.956	ug/l	97
42) Vinyl Acetate	5.87	43	1091786	113.529	ug/l	99
43) Ethyl Acetate	6.91	43	116334	21.585	ug/l	99
44) Isopropyl Acetate	8.15	43	184077	21.086	ug/l	98
45) 1,4-Dioxane	9.19	88	26839	400.373	ug/l	98
46) Methyl methacrylate	9.19	41	81829	20.418	ug/l	95
47) n-amyl Acetate	12.07	43	146507	18.931	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	124089	21.221	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	132124	21.518	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	77905	22.112	ug/l	97
51) Ethyl methacrylate	10.43	69	111639	19.817	ug/l	97
52) 1,3-Dichloropropane	10.70	76	135172	21.544	ug/l	98
53) Dibromochloromethane	10.90	129	82033	21.696	ug/l	100
54) 1,2-Dibromoethane	11.00	107	79442	21.754	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	265853	94.869	ug/l	100
56) Bromoform	12.13	173	58326	22.144	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	579377	110.170	ug/l	99
59) 2-Hexanone	10.75	43	425740	103.263	ug/l	99
61) Tetrachloroethene	10.63	164	68569	22.011	ug/l	98
62) Toluene	10.15	91	335445	21.632	ug/l	99
64) Chlorobenzene	11.43	112	201029	21.205	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	78304	22.027	ug/l	98
66) Ethyl Benzene	11.51	91	355442	20.701	ug/l	98
67) m/p-Xylenes	11.62	106	264694	41.262	ug/l	100
68) o-Xylene	11.95	106	125301	20.149	ug/l	99
69) Styrene	11.97	104	203543	19.812	ug/l	99
70) Isopropylbenzene	12.25	105	340383	20.273	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	119880	21.209	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	110209m	21.518	ug/l	
73) Bromobenzene	12.53	156	82784	20.299	ug/l	97
74) n-propylbenzene	12.59	91	411100	20.918	ug/l	99
75) 2-Chlorotoluene	12.68	91	245232	20.740	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	294301	20.465	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	37292	19.113	ug/l	100
78) 4-Chlorotoluene	12.78	91	249599	20.481	ug/l	100
79) tert-butylbenzene	13.00	119	246891	20.095	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	292601	20.477	ug/l	100
81) sec-Butylbenzene	13.17	105	331116	20.026	ug/l	100
82) p-Isopropyltoluene	13.29	119	295039	19.871	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	149718	20.288	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	141306	19.170	ug/l	99
85) n-Butylbenzene	13.62	91	252066	18.543	ug/l	98
86) Hexachloroethane	13.88	117	57736	21.367	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	146714	20.139	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	24969	19.847	ug/l	93
89) 1,2,4-Trichlorobenzene	14.92	180	75147	16.336	ug/l	100
90) Hexachlorobutadiene	15.01	225	45716	19.246	ug/l	98
91) Naphthalene	15.13	128	205347	15.119	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	76158	17.008	ug/l	100

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

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