

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\
 Data File : VN062932.D
 Acq On : 14 Aug 2020 00:57
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN081420

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:45:02 PM

Quant Time: Aug 14 06:34:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 14 06:20:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	28891	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	148948	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	147680	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	78614	30.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.53%
60) 4-Bromofluorobenzene	12.38	95	74665	28.71	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.70%
63) Toluene-d8	10.06	98	192936	27.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	53393	21.556	ug/l 97
3) Chloromethane	2.03	50	56463	26.318	ug/l 98
4) Vinyl Chloride	2.16	62	71189	31.409	ug/l 99
5) Bromomethane	2.52	94	41778	21.373	ug/l 98
6) Chloroethane	2.66	64	40082	20.392	ug/l 98
7) Trichlorofluoromethane	2.98	101	85624	19.375	ug/l 99
8) Diethyl Ether	3.37	74	18087	18.699	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.72	101	28289	19.457	ug/l 97
10) 1,1-Dichloroethene	3.69	96	25895	19.427	ug/l 94
11) Methyl Iodide	3.91	142	30663	16.562	ug/l 94
12) Methyl Acetate	4.28	43	41957	20.783	ug/l # 90
13) Acrolein	3.57	56	25156	97.528	ug/l 93
14) Acrylonitrile	4.93	53	87375	99.143	ug/l 96
15) Acetone	3.78	58	23861	101.369	ug/l 100
16) Carbon Disulfide	4.01	76	70349	18.505	ug/l 99
17) Allyl chloride	4.28	41	46578	20.284	ug/l 91
18) Methylene Chloride	4.50	84	34933	20.257	ug/l 95
19) trans-1,2-Dichloroethene	5.00	96	27271	18.319	ug/l 98
20) Diisopropyl ether	5.90	45	114075	21.222	ug/l 93
21) 1,1-Dichloroethane	5.80	63	63029	20.033	ug/l 97
22) cis-1,2-Dichloroethene	6.78	96	34917	19.617	ug/l # 87
23) tert-Butyl Alcohol	4.73	59	36176	95.947	ug/l # 100
24) Methyl tert-Butyl Ether	5.00	73	110888	19.144	ug/l 100
25) Chloroform	7.33	83	66202	19.392	ug/l 99
26) Cyclohexane	7.62	56	54690	20.532	ug/l # 94
29) 1,1-Dichloropropene	7.75	75	44182	20.109	ug/l 98
30) 2-Butanone	6.79	43	112452	99.145	ug/l 99
31) 2,2-Dichloropropane	6.77	77	39115	17.879	ug/l # 78
32) 1,1,1-Trichloroethane	7.53	97	60951	20.247	ug/l 96
33) Carbon Tetrachloride	7.73	117	52185	19.549	ug/l 96
34) Benzene	8.00	78	133338	20.187	ug/l 98
35) Methacrylonitrile	7.13	41	20763	20.635	ug/l 84
36) 1,2-Dichloroethane	8.09	62	57440	20.023	ug/l 99
37) Trichloroethene	8.80	130	30761	18.777	ug/l 90
38) Methylcyclohexane	9.05	83	48802	18.570	ug/l 99
39) 1,2-Dichloropropane	9.09	63	35822	19.869	ug/l 98
40) Dibromomethane	9.18	93	24343	19.934	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	54000	19.702	ug/l	99
42) Vinyl Acetate	5.84	43	390545	101.870	ug/l	99
43) Ethyl Acetate	6.88	43	43525	19.536	ug/l #	86
44) Isopropyl Acetate	8.13	43	73586	20.226	ug/l	99
45) 1,4-Dioxane	9.17	88	13497	378.808	ug/l	90
46) Methyl methacrylate	9.17	41	36763	20.207	ug/l	96
47) n-amyl Acetate	12.05	43	62876	19.372	ug/l	99
48) t-1,3-Dichloropropene	10.36	75	56031	19.569	ug/l	93
49) cis-1,3-Dichloropropene	9.81	75	57156	19.865	ug/l	97
50) 1,1,2-Trichloroethane	10.54	97	35853	20.428	ug/l	99
51) Ethyl methacrylate	10.40	69	53006	19.839	ug/l	97
52) 1,3-Dichloropropane	10.68	76	62639	20.656	ug/l	97
53) Dibromochloromethane	10.88	129	41658	19.856	ug/l	100
54) 1,2-Dibromoethane	10.98	107	37821	21.058	ug/l	94
55) 2-Chloroethyl vinyl ether	9.66	63	54792	84.741	ug/l	97
56) Bromoform	12.10	173	30067	20.191	ug/l	98
58) 4-Methyl-2-Pentanone	9.95	43	233473	90.855	ug/l	100
59) 2-Hexanone	10.72	43	189904	101.210	ug/l	99
61) Tetrachloroethene	10.60	164	28622	18.747	ug/l	95
62) Toluene	10.12	91	138725	17.816	ug/l	99
64) Chlorobenzene	11.41	112	93182	19.076	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	38435	19.028	ug/l	97
66) Ethyl Benzene	11.48	91	161653	18.648	ug/l	99
67) m/p-Xylenes	11.60	106	125346	39.062	ug/l	98
68) o-Xylene	11.92	106	59599	19.348	ug/l	95
69) Styrene	11.94	104	102180	18.682	ug/l	99
70) Isopropylbenzene	12.22	105	164609	18.777	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	57428	19.902	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	55705m	19.494	ug/l	
73) Bromobenzene	12.50	156	40643	18.909	ug/l	99
74) n-propylbenzene	12.57	91	188232	18.607	ug/l	100
75) 2-Chlorotoluene	12.65	91	116442	18.335	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	142387	18.268	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	16195	17.600	ug/l	96
78) 4-Chlorotoluene	12.75	91	117113	18.131	ug/l	98
79) tert-butylbenzene	12.97	119	119204	18.515	ug/l	99
80) 1,2,4-Trimethylbenzene	13.02	105	139669	18.336	ug/l	100
81) sec-Butylbenzene	13.15	105	155908	18.343	ug/l	98
82) p-Isopropyltoluene	13.26	119	137955	18.153	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	69500	18.451	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	67294	18.197	ug/l	97
85) n-Butylbenzene	13.59	91	106058	16.371	ug/l	98
86) Hexachloroethane	13.85	117	27741	16.850	ug/l	95
87) 1,2-Dichlorobenzene	13.63	146	67883	17.461	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.25	75	11374	16.713	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	27777	15.513	ug/l	98
90) Hexachlorobutadiene	14.99	225	21213	17.732	ug/l	95
91) Naphthalene	15.10	128	79079	16.315	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	29435	16.416	ug/l	98

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

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