

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102220\
 Data File : VN064277.D
 Acq On : 23 Oct 2020 1:58
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 3:36:50 PM

Quant Time: Oct 23 05:06:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 22 16:07:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	46822	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	270319	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	242140	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	127882	33.36	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	111.20%#
60) 4-Bromofluorobenzene	12.38	95	127368	29.35	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.83%
63) Toluene-d8	10.06	98	322678	29.43	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	69390	21.601	ug/l 91
3) Chloromethane	2.04	50	66874	20.314	ug/l 97
4) Vinyl Chloride	2.16	62	67350	20.795	ug/l 99
5) Bromomethane	2.54	94	41605	21.472	ug/l 99
6) Chloroethane	2.68	64	39715	21.054	ug/l 97
7) Trichlorofluoromethane	2.99	101	111722	21.488	ug/l 99
8) Diethyl Ether	3.38	74	34926	19.786	ug/l 89
9) 1,1,2-Trichlorotrifluoroet	3.72	101	56558	20.611	ug/l 98
10) 1,1-Dichloroethene	3.70	96	53438	20.002	ug/l 97
11) Methyl Iodide	3.91	142	73923	19.196	ug/l 95
12) Methyl Acetate	4.28	43	67212	23.868	ug/l 97
13) Acrolein	3.57	56	43136	140.096	ug/l # 1
14) Acrylonitrile	4.93	53	118397	104.336	ug/l 97
15) Acetone	3.77	58	33628	109.758	ug/l 98
16) Carbon Disulfide	4.01	76	145394	19.029	ug/l 97
17) Allyl chloride	4.28	41	103942	20.923	ug/l 95
18) Methylene Chloride	4.50	84	62468m	20.443	ug/l
19) trans-1,2-Dichloroethene	5.00	96	57566	19.974	ug/l 92
20) Diisopropyl ether	5.90	45	193894	21.120	ug/l 98
21) 1,1-Dichloroethane	5.80	63	119669	21.351	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	68881m	20.445	ug/l
23) tert-Butyl Alcohol	4.73	59	55006m	104.803	ug/l
24) Methyl tert-Butyl Ether	4.99	73	185500	21.012	ug/l 98
25) Chloroform	7.33	83	123003	21.122	ug/l 93
26) Cyclohexane	7.61	56	85725	19.290	ug/l # 87
29) 1,1-Dichloropropene	7.75	75	88656	19.748	ug/l 97
30) 2-Butanone	6.78	43	191589	103.492	ug/l 99
31) 2,2-Dichloropropane	6.78	77	90762	15.925	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	116495	20.367	ug/l # 87
33) Carbon Tetrachloride	7.74	117	107656	20.645	ug/l 95
34) Benzene	8.00	78	247576	19.804	ug/l 98
35) Methacrylonitrile	7.13	41	44195	21.764	ug/l 95
36) 1,2-Dichloroethane	8.09	62	107015	21.165	ug/l 98
37) Trichloroethene	8.80	130	71136	20.667	ug/l 98
38) Methylcyclohexane	9.05	83	81115	18.892	ug/l 98
39) 1,2-Dichloropropane	9.08	63	67041	20.096	ug/l 100
40) Dibromomethane	9.18	93	46982	20.240	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	102149	20.334	ug/l	96
42) Vinyl Acetate	5.84	43	880330	100.166	ug/l	99
43) Ethyl Acetate	6.88	43	86569	21.411	ug/l #	86
44) Isopropyl Acetate	8.13	43	154284	19.876	ug/l	97
45) 1,4-Dioxane	9.16	88	19371	426.690	ug/l #	87
46) Methyl methacrylate	9.16	41	73874	20.058	ug/l	97
47) n-amyl Acetate	12.04	43	126354	18.349	ug/l	97
48) t-1,3-Dichloropropene	10.35	75	106847	18.859	ug/l	94
49) cis-1,3-Dichloropropene	9.81	75	111325	19.017	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	62347	20.049	ug/l	93
51) Ethyl methacrylate	10.40	69	93230	18.959	ug/l	97
52) 1,3-Dichloropropane	10.68	76	109733	20.468	ug/l	98
53) Dibromochloromethane	10.87	129	74602	19.061	ug/l	98
54) 1,2-Dibromoethane	10.98	107	65379	19.779	ug/l	95
55) 2-Chloroethyl vinyl ether	9.66	63	222859	92.213	ug/l	99
56) Bromoform	12.10	173	50549	18.545	ug/l	99
58) 4-Methyl-2-Pentanone	9.95	43	427894	104.283	ug/l	99
59) 2-Hexanone	10.72	43	303791	99.728	ug/l	99
61) Tetrachloroethene	10.60	164	68637	21.027	ug/l	96
62) Toluene	10.13	91	272233	19.666	ug/l	99
64) Chlorobenzene	11.41	112	171234	19.863	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	70401	20.844	ug/l	95
66) Ethyl Benzene	11.48	91	310430	19.505	ug/l	99
67) m/p-Xylenes	11.60	106	225887	38.163	ug/l	95
68) o-Xylene	11.92	106	109595	19.081	ug/l	98
69) Styrene	11.94	104	186442	19.187	ug/l	99
70) Isopropylbenzene	12.22	105	293114	19.323	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	80222	19.299	ug/l	95
72) 1,2,3-Trichloropropane	12.52	75	81311m	18.744	ug/l	
73) Bromobenzene	12.50	156	71581	19.568	ug/l	97
74) n-propylbenzene	12.56	91	332084	19.181	ug/l	98
75) 2-Chlorotoluene	12.65	91	209337	19.532	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	253550	19.643	ug/l	97
77) t-1,4-Dichloro-2-butene	12.27	75	28748	16.950	ug/l	100
78) 4-Chlorotoluene	12.75	91	215535	19.226	ug/l	100
79) tert-butylbenzene	12.97	119	204799	19.407	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	251520	19.195	ug/l	97
81) sec-Butylbenzene	13.14	105	262222	19.098	ug/l	100
82) p-Isopropyltoluene	13.26	119	236439	18.606	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	125760	19.180	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	122369	18.641	ug/l	95
85) n-Butylbenzene	13.59	91	204268	18.108	ug/l	100
86) Hexachloroethane	13.85	117	40159	18.356	ug/l	94
87) 1,2-Dichlorobenzene	13.63	146	122874	19.216	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	20167	19.155	ug/l	93
89) 1,2,4-Trichlorobenzene	14.88	180	69284	18.043	ug/l	97
90) Hexachlorobutadiene	14.98	225	37464	19.248	ug/l	98
91) Naphthalene	15.10	128	211953	18.210	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	69285	18.867	ug/l	99

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

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