

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063044.D
 Acq On : 20 Aug 2020 18:25
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 9:20:55 AM

Quant Time: Aug 21 06:35:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 14:01:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	28160	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	142154	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	138331	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	60628	30.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.30%
60) 4-Bromofluorobenzene	12.38	95	66564	30.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.50%
63) Toluene-d8	10.06	98	192643	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	42607	21.162	ug/l 99
3) Chloromethane	2.03	50	48535	21.785	ug/l 98
4) Vinyl Chloride	2.16	62	46885	20.905	ug/l 98
5) Bromomethane	2.49	94	24477	17.705	ug/l 96
6) Chloroethane	2.64	64	27127	20.465	ug/l 99
7) Trichlorofluoromethane	2.97	101	54638	20.202	ug/l 99
8) Diethyl Ether	3.37	74	17760	19.744	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.71	101	27559	18.845	ug/l 97
10) 1,1-Dichloroethene	3.69	96	24746	18.831	ug/l 94
11) Methyl Iodide	3.91	142	34706	19.249	ug/l 98
12) Methyl Acetate	4.28	43	35954	20.526	ug/l 93
13) Acrolein	3.57	56	15434	85.973	ug/l 95
14) Acrylonitrile	4.93	53	76758	100.078	ug/l 94
15) Acetone	3.78	58	19804	89.217	ug/l 94
16) Carbon Disulfide	4.00	76	67258	19.065	ug/l 100
17) Allyl chloride	4.27	41	44204	18.332	ug/l 99
18) Methylene Chloride	4.50	84	48773	26.527	ug/l 98
19) trans-1,2-Dichloroethene	4.99	96	27717	19.181	ug/l 97
20) Diisopropyl ether	5.90	45	113816	20.153	ug/l 99
21) 1,1-Dichloroethane	5.80	63	60844	19.631	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	34119	19.053	ug/l 97
23) tert-Butyl Alcohol	4.74	59	19806	78.823	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	93325	19.359	ug/l 99
25) Chloroform	7.33	83	61084	19.789	ug/l 100
26) Cyclohexane	7.61	56	50701	19.002	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	38669	18.731	ug/l 98
30) 2-Butanone	6.79	43	94610	98.325	ug/l 100
31) 2,2-Dichloropropane	6.78	77	43641	17.392	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	49487	19.903	ug/l 99
33) Carbon Tetrachloride	7.73	117	42220	19.940	ug/l 97
34) Benzene	8.00	78	132580	20.040	ug/l 99
35) Methacrylonitrile	7.13	41	16542	18.088	ug/l 94
36) 1,2-Dichloroethane	8.08	62	45429	20.128	ug/l 99
37) Trichloroethene	8.80	130	31146	19.224	ug/l 95
38) Methylcyclohexane	9.05	83	45650	17.630	ug/l 98
39) 1,2-Dichloropropane	9.08	63	39105	20.310	ug/l 97
40) Dibromomethane	9.17	93	23353	20.890	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	48697	19.657	ug/l	97
42) Vinyl Acetate	5.84	43	347033	95.206	ug/l	99
43) Ethyl Acetate	6.88	43	38860	21.159	ug/l	99
44) Isopropyl Acetate	8.13	43	62899	20.401	ug/l	99
45) 1,4-Dioxane	9.17	88	7387	255.816	ug/l	94
46) Methyl methacrylate	9.17	41	29651	19.533	ug/l	98
47) n-amyl Acetate	12.05	43	54744	20.005	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	49160	18.790	ug/l	95
49) cis-1,3-Dichloropropene	9.81	75	54084	18.991	ug/l	97
50) 1,1,2-Trichloroethane	10.54	97	35459	20.572	ug/l	97
51) Ethyl methacrylate	10.40	69	45296	19.316	ug/l	97
52) 1,3-Dichloropropane	10.68	76	57899	20.332	ug/l	100
53) Dibromochloromethane	10.88	129	38028	20.105	ug/l	100
54) 1,2-Dibromoethane	10.98	107	33753	20.413	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	55609	115.446	ug/l	99
56) Bromoform	12.10	173	27658	19.969	ug/l	96
58) 4-Methyl-2-Pentanone	9.95	43	211613	106.341	ug/l	99
59) 2-Hexanone	10.72	43	146563	103.247	ug/l	99
61) Tetrachloroethene	10.60	164	29818	19.663	ug/l	94
62) Toluene	10.12	91	142215	19.398	ug/l	100
64) Chlorobenzene	11.41	112	88816	19.579	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	36072	20.062	ug/l	97
66) Ethyl Benzene	11.49	91	148831	18.623	ug/l	99
67) m/p-Xylenes	11.60	106	115778	38.672	ug/l	99
68) o-Xylene	11.92	106	55229	19.204	ug/l	100
69) Styrene	11.94	104	97683	19.444	ug/l	99
70) Isopropylbenzene	12.23	105	150220	19.202	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	52358	20.870	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	45354m	20.374	ug/l	
73) Bromobenzene	12.50	156	41458	19.651	ug/l	97
74) n-propylbenzene	12.57	91	178081	18.976	ug/l	100
75) 2-Chlorotoluene	12.65	91	110162	19.696	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	128623	19.265	ug/l	100
77) t-1,4-Dichloro-2-butene	12.28	75	15483	19.679	ug/l	93
78) 4-Chlorotoluene	12.75	91	111273	19.296	ug/l	98
79) tert-butylbenzene	12.97	119	109221	19.443	ug/l	97
80) 1,2,4-Trimethylbenzene	13.02	105	122214	18.805	ug/l	99
81) sec-Butylbenzene	13.15	105	146954	18.990	ug/l	100
82) p-Isopropyltoluene	13.26	119	123912	18.062	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	71977	19.540	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	68245	18.956	ug/l	99
85) n-Butylbenzene	13.59	91	95616	16.772	ug/l	99
86) Hexachloroethane	13.85	117	26048	19.278	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	71437	20.249	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	8091	20.332	ug/l	99
89) 1,2,4-Trichlorobenzene	14.89	180	27262	15.659	ug/l	99
90) Hexachlorobutadiene	14.98	225	22841	17.725	ug/l	98
91) Naphthalene	15.11	128	56670	14.731	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	26517	15.256	ug/l	98

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

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