

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\
 Data File : VN062934.D
 Acq On : 14 Aug 2020 11:35
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

sam
 8/17/2020 9:07:23 PM

Quant Time: Aug 14 14:45:41 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	26534	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	135423	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	131387	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	71561	30.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.63%
60) 4-Bromofluorobenzene	12.37	95	67150	29.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.73%
63) Toluene-d8	10.06	98	184552	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	47536	20.896	ug/l 95
3) Chloromethane	2.03	50	35208	17.869	ug/l 97
4) Vinyl Chloride	2.16	62	36035	17.311	ug/l 99
5) Bromomethane	2.52	94	38624	21.515	ug/l 100
6) Chloroethane	2.66	64	38891	21.544	ug/l 99
7) Trichlorofluoromethane	2.98	101	82209	20.254	ug/l 96
8) Diethyl Ether	3.37	74	16626	18.715	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.71	101	27233	20.395	ug/l 97
10) 1,1-Dichloroethene	3.69	96	23545	19.233	ug/l 93
11) Methyl Iodide	3.91	142	31419	18.478	ug/l 95
12) Methyl Acetate	4.28	43	34604	18.663	ug/l 93
13) Acrolein	3.57	56	18024	76.085	ug/l 99
14) Acrylonitrile	4.93	53	73758	91.126	ug/l 98
15) Acetone	3.78	58	20909	96.718	ug/l 95
16) Carbon Disulfide	4.00	76	63003	18.045	ug/l 100
17) Allyl chloride	4.27	41	38619	18.312	ug/l 96
18) Methylene Chloride	4.50	84	30503	19.259	ug/l 90
19) trans-1,2-Dichloroethene	4.98	96	26049m	19.053	ug/l
20) Diisopropyl ether	5.90	45	92911	18.820	ug/l 94
21) 1,1-Dichloroethane	5.79	63	54559	18.882	ug/l 97
22) cis-1,2-Dichloroethene	6.78	96	32600	19.942	ug/l # 90
23) tert-Butyl Alcohol	4.73	59	31115	89.854	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	98757	18.564	ug/l 100
25) Chloroform	7.33	83	63301	20.190	ug/l 95
26) Cyclohexane	7.61	56	45844	18.740	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	40572	20.311	ug/l 100
30) 2-Butanone	6.79	43	98720	95.731	ug/l # 95
31) 2,2-Dichloropropane	6.77	77	49785	25.029	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	56265	20.557	ug/l 96
33) Carbon Tetrachloride	7.73	117	50946	20.991	ug/l 97
34) Benzene	8.00	78	119720	19.936	ug/l 95
35) Methacrylonitrile	7.12	41	17884	19.549	ug/l 90
36) 1,2-Dichloroethane	8.09	62	52541	20.144	ug/l 100
37) Trichloroethene	8.80	130	29247	19.635	ug/l 93
38) Methylcyclohexane	9.05	83	47153	19.735	ug/l 98
39) 1,2-Dichloropropane	9.09	63	32416	19.776	ug/l 95
40) Dibromomethane	9.17	93	23261	20.950	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	51098	20.505	ug/l	94
42) Vinyl Acetate	5.84	43	318384	91.341	ug/l	99
43) Ethyl Acetate	6.88	43	38839	19.174	ug/l #	94
44) Isopropyl Acetate	8.13	43	62029	18.752	ug/l	98
45) 1,4-Dioxane	9.17	88	12115	373.979	ug/l #	95
46) Methyl methacrylate	9.17	41	30159	18.232	ug/l	98
47) n-amyl Acetate	12.05	43	51521	17.459	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	50873	19.542	ug/l	99
49) cis-1,3-Dichloropropene	9.81	75	53186	20.331	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	32982	20.669	ug/l	98
51) Ethyl methacrylate	10.40	69	45359	18.672	ug/l	94
52) 1,3-Dichloropropane	10.68	76	54652	19.822	ug/l	98
53) Dibromochloromethane	10.87	129	39916	20.926	ug/l	100
54) 1,2-Dibromoethane	10.98	107	33396	20.451	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	49844	84.787	ug/l	97
56) Bromoform	12.10	173	27077	19.999	ug/l	95
58) 4-Methyl-2-Pentanone	9.95	43	209730	91.736	ug/l	99
59) 2-Hexanone	10.72	43	150824	90.350	ug/l	98
61) Tetrachloroethene	10.60	164	27892	20.534	ug/l	95
62) Toluene	10.12	91	133536	19.276	ug/l	98
64) Chlorobenzene	11.41	112	83978	19.324	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.48	131	34645	19.279	ug/l	98
66) Ethyl Benzene	11.48	91	147302	19.100	ug/l	99
67) m/p-Xylenes	11.60	106	114599	40.142	ug/l	98
68) o-Xylene	11.92	106	52181	19.040	ug/l	99
69) Styrene	11.94	104	93387	19.191	ug/l	99
70) Isopropylbenzene	12.22	105	151123	19.377	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	49954	19.459	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	48575m	19.107	ug/l	
73) Bromobenzene	12.50	156	38389	20.075	ug/l	94
74) n-propylbenzene	12.56	91	173418	19.269	ug/l	98
75) 2-Chlorotoluene	12.65	91	109192	19.326	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	134902	19.454	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	14807	18.087	ug/l	92
78) 4-Chlorotoluene	12.75	91	110512	19.231	ug/l	99
79) tert-butylbenzene	12.97	119	108770	18.990	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	127934	18.878	ug/l	99
81) sec-Butylbenzene	13.15	105	142995	18.910	ug/l	100
82) p-Isopropyltoluene	13.26	119	129339	19.130	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	65305	19.488	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	64092	19.480	ug/l	96
85) n-Butylbenzene	13.59	91	95634	16.593	ug/l	98
86) Hexachloroethane	13.85	117	27166	18.547	ug/l	97
87) 1,2-Dichlorobenzene	13.63	146	62859	18.174	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.25	75	10863	17.942	ug/l	96
89) 1,2,4-Trichlorobenzene	14.89	180	27384	17.190	ug/l	100
90) Hexachlorobutadiene	14.98	225	23542	22.120	ug/l	93
91) Naphthalene	15.10	128	63299	14.678	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	27801	17.428	ug/l	95

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

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