

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064032.D
 Acq On : 9 Oct 2020 12:14
 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

MMDadoda
 10/12/2020 2:10:04 PM

Quant Time: Oct 10 01:40:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 16:42:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	54785	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	291118	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	273982	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	141664	28.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.97%
60) 4-Bromofluorobenzene	12.38	95	136277	29.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.97%
63) Toluene-d8	10.06	98	377144	30.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	73574	19.842	ug/l 96
3) Chloromethane	2.04	50	76797	20.014	ug/l 94
4) Vinyl Chloride	2.16	62	72358	18.955	ug/l 100
5) Bromomethane	2.54	94	44206	17.992	ug/l 98
6) Chloroethane	2.68	64	43542	18.182	ug/l 99
7) Trichlorofluoromethane	2.99	101	109957	18.247	ug/l 95
8) Diethyl Ether	3.38	74	37789	19.367	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	3.72	101	57497	18.362	ug/l 96
10) 1,1-Dichloroethene	3.70	96	52883	17.988	ug/l 91
11) Methyl Iodide	3.91	142	63161	16.839	ug/l 91
12) Methyl Acetate	4.28	43	69467	19.200	ug/l 96
13) Acrolein	3.57	56	12318	34.978	ug/l 96
14) Acrylonitrile	4.93	53	136415	91.703	ug/l 96
15) Acetone	3.77	58	58567	136.011	ug/l # 60
16) Carbon Disulfide	4.01	76	162174	18.602	ug/l 99
17) Allyl chloride	4.27	41	112773	20.610	ug/l 86
18) Methylene Chloride	4.50	84	65650	18.630	ug/l # 89
19) trans-1,2-Dichloroethene	4.99	96	60432	18.199	ug/l 90
20) Diisopropyl ether	5.90	45	212993	19.364	ug/l 94
21) 1,1-Dichloroethane	5.79	63	121679	18.273	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	67779	17.980	ug/l 88
23) tert-Butyl Alcohol	4.72	59	56495	88.538	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	181676	18.421	ug/l # 91
25) Chloroform	7.32	83	126155	18.069	ug/l 99
26) Cyclohexane	7.61	56	89133	18.583	ug/l # 94
29) 1,1-Dichloropropene	7.75	75	92226	18.090	ug/l 98
30) 2-Butanone	6.78	43	270132	108.032	ug/l 95
31) 2,2-Dichloropropane	6.78	77	109602	17.989	ug/l 97
32) 1,1,1-Trichloroethane	7.52	97	112752	17.336	ug/l 97
33) Carbon Tetrachloride	7.73	117	95520	16.763	ug/l 94
34) Benzene	8.00	78	258219	17.814	ug/l 95
35) Methacrylonitrile	7.12	41	43914	18.478	ug/l 90
36) 1,2-Dichloroethane	8.08	62	109559	17.203	ug/l # 94
37) Trichloroethene	8.80	130	65297	17.193	ug/l 85
38) Methylcyclohexane	9.05	83	79133	18.384	ug/l 98
39) 1,2-Dichloropropane	9.08	63	72356	18.371	ug/l 99
40) Dibromomethane	9.17	93	47177	17.151	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.37	83	98247	17.185	ug/l	97
42) Vinyl Acetate	5.84	43	962614	92.758	ug/l	98
43) Ethyl Acetate	6.88	43	88985	16.618	ug/l #	84
44) Isopropyl Acetate	8.12	43	161315	18.178	ug/l	92
45) 1,4-Dioxane	9.16	88	19402	341.009	ug/l #	94
46) Methyl methacrylate	9.16	41	77452	17.542	ug/l	83
47) n-amyl Acetate	12.05	43	133220	16.884	ug/l	93
48) t-1,3-Dichloropropene	10.35	75	106705	17.272	ug/l	94
49) cis-1,3-Dichloropropene	9.81	75	114491	17.872	ug/l #	86
50) 1,1,2-Trichloroethane	10.53	97	64684	17.611	ug/l	99
51) Ethyl methacrylate	10.40	69	90622	17.010	ug/l	78
52) 1,3-Dichloropropane	10.68	76	110061	17.493	ug/l	96
53) Dibromochloromethane	10.87	129	74286	17.573	ug/l	99
54) 1,2-Dibromoethane	10.97	107	66755	17.334	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	230088	80.931	ug/l	99
56) Bromoform	12.10	173	49161	16.782	ug/l #	93
58) 4-Methyl-2-Pentanone	9.95	43	483315	90.895	ug/l	94
59) 2-Hexanone	10.72	43	384018	96.960	ug/l	94
61) Tetrachloroethene	10.60	164	59028	16.982	ug/l	93
62) Toluene	10.12	91	282353	17.944	ug/l	99
64) Chlorobenzene	11.41	112	167558	17.569	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	67010	17.964	ug/l	96
66) Ethyl Benzene	11.48	91	306937	17.763	ug/l	97
67) m/p-Xylenes	11.59	106	226030	35.175	ug/l	96
68) o-Xylene	11.92	106	107629	17.580	ug/l	96
69) Styrene	11.94	104	180798	17.308	ug/l	95
70) Isopropylbenzene	12.22	105	287202	17.655	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	89980	17.498	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	88879m	16.950	ug/l	
73) Bromobenzene	12.50	156	70114	17.005	ug/l	88
74) n-propylbenzene	12.57	91	333111	17.516	ug/l	98
75) 2-Chlorotoluene	12.65	91	205460	17.712	ug/l	96
76) 1,3,5-Trimethylbenzene	12.71	105	241550	17.608	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	32209	17.270	ug/l	92
78) 4-Chlorotoluene	12.75	91	214694	17.478	ug/l	97
79) tert-butylbenzene	12.97	119	193337	17.592	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	242854	17.659	ug/l	98
81) sec-Butylbenzene	13.14	105	260573	18.038	ug/l	98
82) p-Isopropyltoluene	13.26	119	230805	17.678	ug/l	95
83) 1,3-Dichlorobenzene	13.26	146	123677	16.866	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	122031	16.752	ug/l	95
85) n-Butylbenzene	13.59	91	196199	17.176	ug/l	99
86) Hexachloroethane	13.85	117	39949	17.754	ug/l	80
87) 1,2-Dichlorobenzene	13.63	146	121717	16.915	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.24	75	19318	15.722	ug/l	90
89) 1,2,4-Trichlorobenzene	14.88	180	57095	15.610	ug/l #	97
90) Hexachlorobutadiene	14.98	225	34255	17.682	ug/l	97
91) Naphthalene	15.10	128	172649	15.430	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	57673	16.189	ug/l	96

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

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