

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\
 Data File : VN062940.D
 Acq On : 14 Aug 2020 17:14
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda

8/17/2020 5:45:11 PM

Quant Time: Aug 14 17:41:55 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	28457	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	152822	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	157048	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	75110	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	12.38	95	86147	31.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.83%
63) Toluene-d8	10.06	98	205099	27.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	51344	21.045	ug/l 100
3) Chloromethane	2.03	50	36768	17.399	ug/l 95
4) Vinyl Chloride	2.16	62	49712	22.268	ug/l 100
5) Bromomethane	2.52	94	37178	19.310	ug/l 98
6) Chloroethane	2.66	64	37696	19.471	ug/l 98
7) Trichlorofluoromethane	2.97	101	87749	20.158	ug/l 99
8) Diethyl Ether	3.37	74	17321	18.180	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.71	101	28801	20.111	ug/l 98
10) 1,1-Dichloroethene	3.69	96	24726	18.833	ug/l 95
11) Methyl Iodide	3.91	142	26747	14.667	ug/l 100
12) Methyl Acetate	4.28	43	35100	17.651	ug/l 96
13) Acrolein	3.57	56	18202	71.644	ug/l 97
14) Acrylonitrile	4.93	53	77686	89.494	ug/l 99
15) Acetone	3.78	58	24785	106.900	ug/l 84
16) Carbon Disulfide	4.00	76	66030	17.634	ug/l 98
17) Allyl chloride	4.27	41	40197	17.772	ug/l 92
18) Methylene Chloride	4.50	84	31681	18.651	ug/l 99
19) trans-1,2-Dichloroethene	4.98	96	26993	18.409	ug/l 98
20) Diisopropyl ether	5.90	45	97888	18.488	ug/l 90
21) 1,1-Dichloroethane	5.79	63	57035	18.405	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	32257	18.399	ug/l # 88
23) tert-Butyl Alcohol	4.74	59	32118	86.483	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	103710	18.178	ug/l 100
25) Chloroform	7.33	83	62202	18.499	ug/l 98
26) Cyclohexane	7.61	56	48705	18.564	ug/l # 95
29) 1,1-Dichloropropene	7.75	75	40897	18.142	ug/l 98
30) 2-Butanone	6.79	43	106731	91.716	ug/l # 96
31) 2,2-Dichloropropane	6.77	77	56384	25.119	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	57460	18.604	ug/l 96
33) Carbon Tetrachloride	7.73	117	51338	18.745	ug/l 97
34) Benzene	8.00	78	123664	18.248	ug/l 94
35) Methacrylonitrile	7.12	41	13044	12.635	ug/l 99
36) 1,2-Dichloroethane	8.09	62	53020	18.014	ug/l 99
37) Trichloroethene	8.80	130	31380	18.669	ug/l 99
38) Methylcyclohexane	9.05	83	50324	18.664	ug/l 99
39) 1,2-Dichloropropane	9.08	63	32931	17.802	ug/l 99
40) Dibromomethane	9.18	93	22698	18.116	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	51760	18.406	ug/l	98
42) Vinyl Acetate	5.84	43	339419	86.290	ug/l	100
43) Ethyl Acetate	6.88	43	41869	18.316	ug/l #	90
44) Isopropyl Acetate	8.13	43	64853	17.374	ug/l	98
45) 1,4-Dioxane	9.17	88	12547	343.218	ug/l #	95
46) Methyl methacrylate	9.17	41	31091	16.656	ug/l	95
47) n-amyl Acetate	12.05	43	71587	21.497	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	55804	18.996	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	56351	19.089	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	34718	19.279	ug/l	96
51) Ethyl methacrylate	10.40	69	49165	17.935	ug/l	97
52) 1,3-Dichloropropane	10.68	76	58148	18.689	ug/l	99
53) Dibromochloromethane	10.87	129	40901	19.001	ug/l	95
54) 1,2-Dibromoethane	10.98	107	37724	20.471	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	57499	86.673	ug/l	97
56) Bromoform	12.10	173	34687	22.703	ug/l	99
58) 4-Methyl-2-Pentanone	9.95	43	227138	83.117	ug/l	99
59) 2-Hexanone	10.72	43	186083	93.258	ug/l	98
61) Tetrachloroethene	10.60	164	29345	18.074	ug/l	96
62) Toluene	10.12	91	140149	16.925	ug/l	99
64) Chlorobenzene	11.41	112	94814	18.253	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	39004	18.158	ug/l	98
66) Ethyl Benzene	11.48	91	167818	18.205	ug/l	100
67) m/p-Xylenes	11.60	106	127037	37.228	ug/l	99
68) o-Xylene	11.92	106	66292	20.237	ug/l	96
69) Styrene	11.94	104	117690	20.234	ug/l	99
70) Isopropylbenzene	12.22	105	181879	19.510	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	55993	18.248	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	51203m	16.850	ug/l	
73) Bromobenzene	12.50	156	41718	18.251	ug/l	98
74) n-propylbenzene	12.57	91	195732	18.194	ug/l	99
75) 2-Chlorotoluene	12.65	91	118833	17.596	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	146342	17.656	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	20905	21.364	ug/l	97
78) 4-Chlorotoluene	12.75	91	122078	17.772	ug/l	99
79) tert-butylbenzene	12.97	119	124525	18.188	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	141230	17.435	ug/l	100
81) sec-Butylbenzene	13.15	105	159858	17.686	ug/l	100
82) p-Isopropyltoluene	13.27	119	146202	18.091	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	73541	18.360	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	78005	19.835	ug/l	96
85) n-Butylbenzene	13.59	91	134215	19.482	ug/l	98
86) Hexachloroethane	13.85	117	32452	18.535	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	82128	19.865	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.25	75	12508	17.283	ug/l	96
89) 1,2,4-Trichlorobenzene	14.89	180	30576	16.057	ug/l	99
90) Hexachlorobutadiene	14.98	225	25851	20.320	ug/l	95
91) Naphthalene	15.10	128	72986	14.159	ug/l	97
92) 1,2,3-Trichlorobenzene	15.28	180	29463	15.452	ug/l	94

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

