

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071320\
 Data File : VN062512.D
 Acq On : 13 Jul 2020 12:48
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN071320

Manual Integrations
 APPROVED

MMDadoda
 7/14/2020 11:36:47 AM

Quant Time: Jul 14 01:09:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	48965	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	275983	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	249672	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	124156	29.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.40%
60) 4-Bromofluorobenzene	12.37	95	126983	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	10.06	98	357321	30.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	60320	20.872	ug/l 97
3) Chloromethane	2.04	50	86838	20.809	ug/l 100
4) Vinyl Chloride	2.16	62	76371	20.936	ug/l 98
5) Bromomethane	2.53	94	37203	20.558	ug/l 94
6) Chloroethane	2.67	64	37593	20.934	ug/l 99
7) Trichlorofluoromethane	2.98	101	91021	21.290	ug/l 98
8) Diethyl Ether	3.37	74	42368	20.614	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	56867	20.575	ug/l 99
10) 1,1-Dichloroethene	3.70	96	57489	20.389	ug/l 98
11) Methyl Iodide	3.91	142	64553	18.695	ug/l 99
12) Methyl Acetate	4.28	43	76241	20.161	ug/l 98
13) Acrolein	3.57	56	55059	97.450	ug/l 98
14) Acrylonitrile	4.93	53	177567	100.963	ug/l 98
15) Acetone	3.78	58	52652	97.523	ug/l 94
16) Carbon Disulfide	4.01	76	187347	20.389	ug/l 99
17) Allyl chloride	4.28	41	125269	20.890	ug/l 98
18) Methylene Chloride	4.50	84	70563	20.338	ug/l 97
19) trans-1,2-Dichloroethene	4.99	96	62857	20.141	ug/l 93
20) Diisopropyl ether	5.90	45	253667	20.577	ug/l 98
21) 1,1-Dichloroethane	5.80	63	134545	20.644	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	72452	20.586	ug/l 100
23) tert-Butyl Alcohol	4.73	59	57809	98.218	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	211177	20.315	ug/l 99
25) Chloroform	7.33	83	124006	20.748	ug/l 97
26) Cyclohexane	7.61	56	118510	20.630	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	97600	20.849	ug/l 98
30) 2-Butanone	6.79	43	247406	99.652	ug/l 98
31) 2,2-Dichloropropane	6.77	77	107028	20.276	ug/l # 70
32) 1,1,1-Trichloroethane	7.53	97	102620	20.396	ug/l 99
33) Carbon Tetrachloride	7.73	117	89078	20.423	ug/l 99
34) Benzene	8.00	78	287682	20.685	ug/l 99
35) Methacrylonitrile	7.12	41	46576	21.357	ug/l 99
36) 1,2-Dichloroethane	8.09	62	100319	20.069	ug/l 99
37) Trichloroethene	8.80	130	63979	20.480	ug/l 98
38) Methylcyclohexane	9.05	83	106953	20.366	ug/l 99
39) 1,2-Dichloropropane	9.08	63	81015	20.447	ug/l 98
40) Dibromomethane	9.17	93	46919	20.547	ug/l 98

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

41) Bromodichloromethane	9.37	83	96634	19.952	ug/l	100
42) Vinyl Acetate	5.84	43	1064467	103.178	ug/l	100
43) Ethyl Acetate	6.88	43	98168	19.668	ug/l #	93
44) Isopropyl Acetate	8.13	43	165403	19.751	ug/l	96
45) 1,4-Dioxane	9.17	88	22808	398.135	ug/l	95
46) Methyl methacrylate	9.17	41	79998	20.135	ug/l	98
47) n-amyl Acetate	12.04	43	140983	19.971	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	112886	19.983	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	122768	20.132	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	65985	20.615	ug/l	98
51) Ethyl methacrylate	10.40	69	109473	20.314	ug/l	97
52) 1,3-Dichloropropane	10.68	76	120311	20.480	ug/l	100
53) Dibromochloromethane	10.87	129	70601	20.245	ug/l	100
54) 1,2-Dibromoethane	10.98	107	65603	20.024	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	150876	87.657	ug/l	99
56) Bromoform	12.10	173	47066	19.760	ug/l	98
58) 4-Methyl-2-Pentanone	9.95	43	507416	104.312	ug/l	99
59) 2-Hexanone	10.72	43	367337	102.966	ug/l	100
61) Tetrachloroethene	10.60	164	54148	21.178	ug/l	96
62) Toluene	10.12	91	297474	21.002	ug/l	99
64) Chlorobenzene	11.40	112	173960	20.901	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	63509	20.615	ug/l	99
66) Ethyl Benzene	11.48	91	324658	20.699	ug/l	98
67) m/p-Xylenes	11.59	106	235871	41.431	ug/l	99
68) o-Xylene	11.92	106	112711	20.630	ug/l	99
69) Styrene	11.94	104	188214	20.297	ug/l	99
70) Isopropylbenzene	12.22	105	306981	20.931	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	99764	21.047	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	92752m	20.116	ug/l	
73) Bromobenzene	12.50	156	70178	20.661	ug/l	98
74) n-propylbenzene	12.56	91	357456	20.504	ug/l	100
75) 2-Chlorotoluene	12.65	91	215544	20.535	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	253241	20.265	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	33941	19.683	ug/l	95
78) 4-Chlorotoluene	12.75	91	216085	20.175	ug/l	100
79) tert-butylbenzene	12.97	119	211337	20.423	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	243868	19.842	ug/l	98
81) sec-Butylbenzene	13.15	105	281438	20.252	ug/l	100
82) p-Isopropyltoluene	13.27	119	244262	19.918	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	119253	20.216	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	114395	19.653	ug/l	99
85) n-Butylbenzene	13.59	91	198854	18.903	ug/l	99
86) Hexachloroethane	13.85	117	47018	19.869	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	116029	20.455	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	17733	19.809	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	52739	18.676	ug/l	99
90) Hexachlorobutadiene	14.98	225	32709	20.884	ug/l	97
91) Naphthalene	15.10	128	148659	19.416	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	54635	19.197	ug/l	99

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

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