

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058674.D
 Acq On : 10 Oct 2019 18:56
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN101119

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 2:47:42 PM

Quant Time: Oct 11 04:59:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	75029	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	426729	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	386352	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	195792	30.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.50%
60) 4-Bromofluorobenzene	12.41	95	197125	29.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.23%
63) Toluene-d8	10.08	98	553049	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	88333	21.729 ug/l	99
3) Chloromethane	2.04	50	114545	21.094 ug/l	100
4) Vinyl Chloride	2.17	62	122152	21.765 ug/l	97
5) Bromomethane	2.55	94	72729	20.989 ug/l	96
6) Chloroethane	2.69	64	74530	21.127 ug/l	93
7) Trichlorofluoromethane	3.00	101	147139	21.300 ug/l	100
8) Diethyl Ether	3.39	74	56368	21.395 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	84938	21.250 ug/l	98
10) 1,1-Dichloroethene	3.72	96	82223	20.945 ug/l	93
11) Methyl Iodide	3.93	142	116543	21.317 ug/l	97
12) Methyl Acetate	4.30	43	126709	20.174 ug/l	97
13) Acrolein	3.58	56	66165	95.342 ug/l	97
14) Acrylonitrile	4.96	53	256178	103.515 ug/l	99
15) Acetone	3.80	58	72547	98.756 ug/l	94
16) Carbon Disulfide	4.03	76	239043	20.877 ug/l	100
17) Allyl chloride	4.30	41	162085	20.744 ug/l	96
18) Methylene Chloride	4.53	84	99079	20.842 ug/l	98
19) trans-1,2-Dichloroethene	5.01	96	91048	21.304 ug/l	94
20) Diisopropyl ether	5.93	45	335804	21.094 ug/l	97
21) 1,1-Dichloroethane	5.83	63	186394	21.144 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	108003	21.196 ug/l	99
23) tert-Butyl Alcohol	4.76	59	103007	101.760 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	309081	21.105 ug/l	100
25) Chloroform	7.36	83	187875	21.369 ug/l	98
26) Cyclohexane	7.64	56	161573	20.882 ug/l	# 99
29) 1,1-Dichloropropene	7.78	75	135505	20.172 ug/l	99
30) 2-Butanone	6.81	43	367616	96.844 ug/l	99
31) 2,2-Dichloropropane	6.81	77	157217	19.857 ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	162344	20.896 ug/l	99
33) Carbon Tetrachloride	7.76	117	139042	20.676 ug/l	98
34) Benzene	8.03	78	407568	20.609 ug/l	98
35) Methacrylonitrile	7.16	41	62737	18.709 ug/l	90
36) 1,2-Dichloroethane	8.11	62	158353	20.943 ug/l	99
37) Trichloroethene	8.82	130	100935	20.776 ug/l	98
38) Methylcyclohexane	9.07	83	158523	20.354 ug/l	99
39) 1,2-Dichloropropane	9.11	63	109441	20.250 ug/l	99
40) Dibromomethane	9.20	93	69414	20.346 ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	142823	20.491	ug/l	99
42) Vinyl Acetate	5.87	43	1406802	105.820	ug/l	100
43) Ethyl Acetate	6.91	43	149057	20.006	ug/l	100
44) Isopropyl Acetate	8.15	43	243432	20.171	ug/l	91
45) 1,4-Dioxane	9.19	88	35199	379.833	ug/l	99
46) Methyl methacrylate	9.19	41	110926	20.021	ug/l	98
47) n-amyl Acetate	12.07	43	209065	19.542	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	160598	19.868	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	173603	20.452	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	100534	20.641	ug/l	97
51) Ethyl methacrylate	10.43	69	156627	20.111	ug/l	99
52) 1,3-Dichloropropane	10.71	76	176819	20.386	ug/l	100
53) Dibromochloromethane	10.90	129	104845	20.059	ug/l	98
54) 1,2-Dibromoethane	11.00	107	101574	20.120	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	398413	102.844	ug/l	99
56) Bromoform	12.13	173	71382	19.604	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	749595	106.354	ug/l	99
59) 2-Hexanone	10.75	43	563146	101.918	ug/l	100
61) Tetrachloroethene	10.63	164	89318	21.394	ug/l	99
62) Toluene	10.15	91	434494	20.907	ug/l	100
64) Chlorobenzene	11.43	112	264926	20.851	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	99520	20.889	ug/l	97
66) Ethyl Benzene	11.51	91	483238	20.999	ug/l	99
67) m/p-Xylenes	11.62	106	355549	41.356	ug/l	100
68) o-Xylene	11.95	106	172744	20.726	ug/l	99
69) Styrene	11.97	104	277346	20.143	ug/l	100
70) Isopropylbenzene	12.25	105	468123	20.803	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	154586	20.406	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	141225m	20.574	ug/l	
73) Bromobenzene	12.53	156	111450	20.391	ug/l	99
74) n-propylbenzene	12.60	91	553871	21.029	ug/l	100
75) 2-Chlorotoluene	12.68	91	327562	20.670	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	397583	20.629	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	48328	18.481	ug/l	96
78) 4-Chlorotoluene	12.78	91	334132	20.458	ug/l	99
79) tert-butylbenzene	13.00	119	336364	20.428	ug/l	100
80) 1,2,4-Trimethylbenzene	13.05	105	394574	20.603	ug/l	100
81) sec-Butylbenzene	13.18	105	454316	20.502	ug/l	99
82) p-Isopropyltoluene	13.29	119	410223	20.616	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	201604	20.384	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	196917	19.933	ug/l	98
85) n-Butylbenzene	13.62	91	364482	20.007	ug/l	100
86) Hexachloroethane	13.88	117	73536	20.306	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	200673	20.553	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.28	75	33586	19.919	ug/l	100
89) 1,2,4-Trichlorobenzene	14.92	180	121565	19.718	ug/l	98
90) Hexachlorobutadiene	15.02	225	64224	20.174	ug/l	99
91) Naphthalene	15.13	128	368142	20.225	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	121478	20.242	ug/l	98

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

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