

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056680.D
 Acq On : 12 Jul 2019 10:59
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:12 AM

Quant Time: Jul 12 23:53:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55665	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	303593	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	270359	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	111702	29.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.60%
60) 4-Bromofluorobenzene	12.40	95	123972	29.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.07%
63) Toluene-d8	10.09	98	369961	29.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	159293	55.038 ug/l	98
3) Chloromethane	2.06	50	208518	50.467 ug/l	100
4) Vinyl Chloride	2.18	62	200917	51.116 ug/l	98
5) Bromomethane	2.54	94	119840	56.184 ug/l	99
6) Chloroethane	2.69	64	114361	52.391 ug/l	99
7) Trichlorofluoromethane	3.01	101	259073	51.459 ug/l	98
8) Diethyl Ether	3.41	74	103692	49.198 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	158771	49.900 ug/l	99
10) 1,1-Dichloroethene	3.73	96	158730	51.194 ug/l	95
11) Methyl Iodide	3.95	142	219564	49.812 ug/l	98
12) Methyl Acetate	4.32	43	194180	46.726 ug/l	96
13) Acrolein	3.61	56	65317	172.381 ug/l	99
14) Acrylonitrile	4.99	53	467750	255.630 ug/l	99
15) Acetone	3.81	58	171858	307.165 ug/l	95
16) Carbon Disulfide	4.05	76	413221	54.083 ug/l	99
17) Allyl chloride	4.32	41	277501	51.036 ug/l	97
18) Methylene Chloride	4.55	84	183141	49.892 ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	170309	50.588 ug/l	99
20) Diisopropyl ether	5.95	45	554408	49.751 ug/l	97
21) 1,1-Dichloroethane	5.85	63	316028	50.174 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	196824	49.785 ug/l	99
23) tert-Butyl Alcohol	4.79	59	165152	240.707 ug/l	100
24) Methyl tert-Butyl Ether	5.04	73	503415	49.339 ug/l	100
25) Chloroform	7.37	83	305832	49.443 ug/l	100
26) Cyclohexane	7.65	56	293793	50.262 ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	234030	50.737 ug/l	99
30) 2-Butanone	6.83	43	708944	273.049 ug/l	100
31) 2,2-Dichloropropane	6.82	77	231878	52.260 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	254203	51.871 ug/l	99
33) Carbon Tetrachloride	7.77	117	219499	52.461 ug/l	99
34) Benzene	8.04	78	725662	50.528 ug/l	94
35) Methacrylonitrile	7.18	41	105383m	49.279 ug/l	
36) 1,2-Dichloroethane	8.12	62	229545	49.282 ug/l	99
37) Trichloroethene	8.83	130	194745	51.469 ug/l	97
38) Methylcyclohexane	9.08	83	299305	51.662 ug/l	98
39) 1,2-Dichloropropane	9.12	63	195384	50.679 ug/l	99
40) Dibromomethane	9.21	93	123562	51.580 ug/l	99

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

41) Bromodichloromethane	9.40	83	232136	52.108	ug/l	97
42) Vinyl Acetate	5.90	43	2346568	259.169	ug/l	100
43) Ethyl Acetate	6.93	43	246173	50.159	ug/l	99
44) Isopropyl Acetate	8.17	43	387617	50.785	ug/l #	88
45) 1,4-Dioxane	9.20	88	80359	1059.995	ug/l	100
46) Methyl methacrylate	9.20	41	188840	50.273	ug/l	97
47) n-amyl Acetate	12.07	43	321906	50.905	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	251690	52.606	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	287967	52.356	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	181434	51.605	ug/l	99
51) Ethyl methacrylate	10.43	69	283431	51.535	ug/l	98
52) 1,3-Dichloropropane	10.71	76	302101	50.357	ug/l	99
53) Dibromochloromethane	10.90	129	187506	54.027	ug/l	99
54) 1,2-Dibromoethane	11.00	107	188184	51.286	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	685841	246.909	ug/l	100
56) Bromoform	12.12	173	136273	53.627	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	1255681	254.407	ug/l	100
59) 2-Hexanone	10.75	43	965766	260.131	ug/l	100
61) Tetrachloroethene	10.63	164	190191	53.879	ug/l	98
62) Toluene	10.16	91	782163	50.853	ug/l	98
64) Chlorobenzene	11.43	112	473813	51.067	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	175863	52.238	ug/l	99
66) Ethyl Benzene	11.51	91	845359	50.636	ug/l	100
67) m/p-Xylenes	11.62	106	639800	103.224	ug/l	100
68) o-Xylene	11.95	106	311230	51.177	ug/l	97
69) Styrene	11.96	104	518711	51.306	ug/l	100
70) Isopropylbenzene	12.25	105	809637	50.830	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	261409	49.913	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	213744m	48.647	ug/l	
73) Bromobenzene	12.53	156	214577	52.175	ug/l	99
74) n-propylbenzene	12.59	91	922247	50.783	ug/l	99
75) 2-Chlorotoluene	12.67	91	550729	50.862	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	696509	51.326	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	77056	53.925	ug/l	94
78) 4-Chlorotoluene	12.77	91	534603	50.874	ug/l	100
79) tert-butylbenzene	12.99	119	584460	50.581	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	692731	51.667	ug/l	99
81) sec-Butylbenzene	13.17	105	773090	50.391	ug/l	99
82) p-Isopropyltoluene	13.29	119	711988	51.379	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	359021	52.385	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	349023	52.911	ug/l	100
85) n-Butylbenzene	13.61	91	599750	51.714	ug/l	99
86) Hexachloroethane	13.87	117	110818	52.579	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	358817	51.956	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	46888	50.252	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	196595	51.634	ug/l	98
90) Hexachlorobutadiene	15.01	225	121207	50.415	ug/l	100
91) Naphthalene	15.13	128	529041	50.466	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	198100	49.700	ug/l	99

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

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