

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054016.D
 Acq On : 1 Mar 2019 8:50
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:05 AM

Quant Time: Mar 01 09:51:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 09:46:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	110616	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	589836	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	496942	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	234612	33.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.30%
60) 4-Bromofluorobenzene	12.40	95	214051	28.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.83%
63) Toluene-d8	10.09	98	741710	33.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	34255	4.648	ug/l 98
3) Chloromethane	2.06	50	43054	4.977	ug/l 99
4) Vinyl Chloride	2.18	62	44273	5.201	ug/l 98
5) Bromomethane	2.57	94	28121	5.124	ug/l 100
6) Chloroethane	2.71	64	26043	5.311	ug/l 98
7) Trichlorofluoromethane	3.02	101	53742	5.112	ug/l 99
8) Diethyl Ether	3.41	74	18129	4.642	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	36838	5.578	ug/l # 76
10) 1,1-Dichloroethene	3.74	96	31755	4.927	ug/l 91
11) Methyl Iodide	3.95	142	40521	4.293	ug/l 99
12) Methyl Acetate	4.32	43	25993	5.174	ug/l # 85
13) Acrolein	3.61	56	4860	8.103	ug/l 99
14) Acrylonitrile	4.99	53	57734	25.689	ug/l 95
15) Acetone	3.82	58	18680	39.109	ug/l 90
16) Carbon Disulfide	4.05	76	101433	5.116	ug/l 99
17) Allyl chloride	4.33	41	52129	5.141	ug/l 96
18) Methylene Chloride	4.55	84	36704	4.976	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	33978	4.988	ug/l 93
20) Diisopropyl ether	5.95	45	96397	4.439	ug/l # 87
21) 1,1-Dichloroethane	5.85	63	65693	5.196	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	36218	4.720	ug/l 97
23) tert-Butyl Alcohol	4.78	59	10119	26.709	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	75005	4.463	ug/l 97
25) Chloroform	7.37	83	63592	5.233	ug/l 96
26) Cyclohexane	7.65	56	53707	4.554	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	45507	5.093	ug/l 98
30) 2-Butanone	6.83	43	70077	31.438	ug/l # 94
31) 2,2-Dichloropropane	6.82	77	47336	5.473	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	51145	5.464	ug/l 99
33) Carbon Tetrachloride	7.77	117	44989	5.490	ug/l 100
34) Benzene	8.04	78	136800	5.095	ug/l # 68
35) Methacrylonitrile	7.17	41	15471	5.379	ug/l 95
36) 1,2-Dichloroethane	8.12	62	47350	6.074	ug/l 100
37) Trichloroethene	8.83	130	37977	5.221	ug/l 93
38) Methylcyclohexane	9.08	83	51508	4.929	ug/l 98
39) 1,2-Dichloropropane	9.12	63	38299	5.462	ug/l 98
40) Dibromomethane	9.20	93	22432	5.657	ug/l 97

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 ALS Vial : 2 Sample Multiplier: 1

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

41) Bromodichloromethane	9.40	83	46904	5.508	ug/l	100
42) Vinyl Acetate	5.90	43	324098	26.651	ug/l	100
43) Ethyl Acetate	6.93	43	25464	5.115	ug/l #	65
44) Isopropyl Acetate	8.17	43	50016	5.394	ug/l #	89
45) 1,4-Dioxane	9.19	88	2735	48.233	ug/l #	6
46) Methyl methacrylate	9.20	41	21745	4.642	ug/l	91
47) n-amyl Acetate	12.07	43	28288	3.474	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	41240	4.745	ug/l	94
49) cis-1,3-Dichloropropene	9.84	75	50413	4.926	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	31377	5.519	ug/l	96
51) Ethyl methacrylate	10.43	69	28549	3.853	ug/l	98
52) 1,3-Dichloropropane	10.71	76	50533	5.160	ug/l	96
53) Dibromochloromethane	10.90	129	32211	5.044	ug/l	98
54) 1,2-Dibromoethane	11.00	107	27126	4.729	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	63995	15.049	ug/l	99
56) Bromoform	12.13	173	19724	4.515	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	125864	26.580	ug/l	97
59) 2-Hexanone	10.75	43	80982	24.772	ug/l	95
61) Tetrachloroethene	10.63	164	39856	5.427	ug/l	97
62) Toluene	10.16	91	142148	5.216	ug/l	98
64) Chlorobenzene	11.43	112	87776	5.132	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	32412	5.403	ug/l	99
66) Ethyl Benzene	11.51	91	139682	4.726	ug/l	99
67) m/p-Xylenes	11.62	106	102221	9.145	ug/l	98
68) o-Xylene	11.95	106	50618	4.673	ug/l	99
69) Styrene	11.96	104	71598	4.050	ug/l	98
70) Isopropylbenzene	12.25	105	132593	4.653	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	33655	5.610	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	25270m	4.810	ug/l	
73) Bromobenzene	12.53	156	34148	4.661	ug/l	98
74) n-propylbenzene	12.59	91	154366	4.785	ug/l	100
75) 2-Chlorotoluene	12.67	91	93880	4.914	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	109758	4.855	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	7614	4.125	ug/l	97
78) 4-Chlorotoluene	12.77	91	89506	4.602	ug/l	100
79) tert-butylbenzene	12.99	119	98950	5.019	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	104502	4.612	ug/l	99
81) sec-Butylbenzene	13.17	105	136862	5.242	ug/l	99
82) p-Isopropyltoluene	13.29	119	110736	4.908	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	57458	4.607	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	51956	4.273	ug/l	98
85) n-Butylbenzene	13.61	91	86579	4.719	ug/l	96
86) Hexachloroethane	13.87	117	22638	6.285	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	57389	4.952	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4527	5.277	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	19399	3.449	ug/l	96
90) Hexachlorobutadiene	15.01	225	24119	7.083	ug/l	99
91) Naphthalene	15.13	128	31293	2.622	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	21255	4.235	ug/l	94

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

