

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090919\
 Data File : VN057787.D
 Acq On : 9 Sep 2019 8:51
 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
 9/13/2019 11:04:28 AM

Quant Time: Sep 09 12:02:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 11:48:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	68200	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	401111	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	362248	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	186211	30.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.90%
60) 4-Bromofluorobenzene	12.40	95	175358	28.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.30%
63) Toluene-d8	10.08	98	526955	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	20539	4.985	ug/l 100
3) Chloromethane	2.03	50	28969	5.638	ug/l 100
4) Vinyl Chloride	2.16	62	28212	5.367	ug/l 94
5) Bromomethane	2.54	94	19100	5.795	ug/l 99
6) Chloroethane	2.68	64	18515	5.667	ug/l 95
7) Trichlorofluoromethane	2.99	101	29780	4.903	ug/l 95
8) Diethyl Ether	3.39	74	12270	5.008	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.73	101	20472	5.398	ug/l 95
10) 1,1-Dichloroethene	3.71	96	19812	5.494	ug/l 85
11) Methyl Iodide	3.92	142	23281	4.825	ug/l 97
12) Methyl Acetate	4.30	43	25535	5.153	ug/l 100
13) Acrolein	3.59	56	9362m	34.866	ug/l
14) Acrylonitrile	4.96	53	48812	24.195	ug/l 97
15) Acetone	3.80	58	14847	25.922	ug/l 82
16) Carbon Disulfide	4.02	76	43138	5.137	ug/l 97
17) Allyl chloride	4.29	41	32557	4.927	ug/l 98
18) Methylene Chloride	4.52	84	25850m	5.688	ug/l
19) trans-1,2-Dichloroethene	5.02	96	22379	5.568	ug/l 93
20) Diisopropyl ether	5.93	45	79116	5.121	ug/l 99
21) 1,1-Dichloroethane	5.82	63	44478	5.222	ug/l # 94
22) cis-1,2-Dichloroethene	6.81	96	25966	5.273	ug/l # 90
23) tert-Butyl Alcohol	4.76	59	15515m	23.557	ug/l
24) Methyl tert-Butyl Ether	5.02	73	72414	5.240	ug/l # 100
25) Chloroform	7.35	83	46899	5.408	ug/l 100
26) Cyclohexane	7.63	56	37932	5.300	ug/l 97
29) 1,1-Dichloropropene	7.77	75	32648	5.174	ug/l 86
30) 2-Butanone	6.82	43	69432	24.404	ug/l # 76
31) 2,2-Dichloropropane	6.80	77	33968	5.099	ug/l # 78
32) 1,1,1-Trichloroethane	7.55	97	36263	5.111	ug/l 97
33) Carbon Tetrachloride	7.76	117	28152m	4.864	ug/l
34) Benzene	8.02	78	100043	5.351	ug/l # 66
35) Methacrylonitrile	7.15	41	10164	3.921	ug/l 98
36) 1,2-Dichloroethane	8.11	62	38906	5.362	ug/l 99
37) Trichloroethene	8.82	130	23932	5.270	ug/l 91
38) Methylcyclohexane	9.07	83	37198	5.177	ug/l 98
39) 1,2-Dichloropropane	9.11	63	28882	5.501	ug/l 100
40) Dibromomethane	9.20	93	16302	5.105	ug/l 94

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

41) Bromodichloromethane	9.40	83	31302	4.862	ug/l	95
42) Vinyl Acetate	5.87	43	289239	25.280	ug/l	99
43) Ethyl Acetate	6.91	43	25612	4.364	ug/l #	94
44) Isopropyl Acetate	8.15	43	49156	4.837	ug/l #	93
45) 1,4-Dioxane	9.19	88	8471	106.513	ug/l	89
46) Methyl methacrylate	9.19	41	24582	4.972	ug/l	98
47) n-amyl Acetate	12.07	43	38898m	4.186	ug/l	
48) t-1,3-Dichloropropene	10.38	75	29262	4.269	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	36521	4.749	ug/l	93
50) 1,1,2-Trichloroethane	10.56	97	23876	5.154	ug/l	96
51) Ethyl methacrylate	10.43	69	32994	4.594	ug/l	98
52) 1,3-Dichloropropane	10.70	76	40759	5.031	ug/l	97
53) Dibromochloromethane	10.90	129	20304	4.438	ug/l	100
54) 1,2-Dibromoethane	11.00	107	23260	5.047	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	77477	22.700	ug/l	97
56) Bromoform	12.13	173	10706	3.778	ug/l	90
58) 4-Methyl-2-Pentanone	9.98	43	142722	25.406	ug/l	99
59) 2-Hexanone	10.75	43	104828	24.866	ug/l	99
61) Tetrachloroethene	10.63	164	19560	5.311	ug/l	94
62) Toluene	10.15	91	108872	5.428	ug/l	98
64) Chlorobenzene	11.43	112	64758	5.204	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	20293	4.697	ug/l	98
66) Ethyl Benzene	11.51	91	115364	5.272	ug/l	97
67) m/p-Xylenes	11.62	106	84269	11.149	ug/l	99
68) o-Xylene	11.95	106	40488	4.946	ug/l	100
69) Styrene	11.96	104	66299	4.751	ug/l	99
70) Isopropylbenzene	12.25	105	111973	5.174	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	32052	4.739	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	28234m	4.771	ug/l	
73) Bromobenzene	12.53	156	26200	5.057	ug/l	93
74) n-propylbenzene	12.59	91	130523	5.279	ug/l	99
75) 2-Chlorotoluene	12.68	91	78284	5.083	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	92010	4.993	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	5965	3.350	ug/l	94
78) 4-Chlorotoluene	12.78	91	75934	4.834	ug/l	98
79) tert-butylbenzene	13.00	119	77204	4.802	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	90914	4.952	ug/l	100
81) sec-Butylbenzene	13.17	105	109881	5.152	ug/l	98
82) p-Isopropyltoluene	13.29	119	93713	4.906	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	45974	4.774	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	44860	4.732	ug/l	98
85) n-Butylbenzene	13.62	91	85249	4.789	ug/l	99
86) Hexachloroethane	13.88	117	13130	4.315	ug/l	95
87) 1,2-Dichlorobenzene	13.66	146	45297	4.846	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4985	4.186	ug/l	88
89) 1,2,4-Trichlorobenzene	14.91	180	25113	4.398	ug/l	98
90) Hexachlorobutadiene	15.01	225	11934	4.551	ug/l	92
91) Naphthalene	15.13	128	65052	4.140	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	23709	4.354	ug/l	99

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

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