

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058336.D
 Acq On : 24 Sep 2019 10:08
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:22:47 AM

Quant Time: Sep 25 01:24:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:14:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	96929	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	574742	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	502625	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	261719	30.74	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.47%
60) 4-Bromofluorobenzene	12.41	95	250243	28.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.53%
63) Toluene-d8	10.08	98	729002	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	27463	4.650 ug/l	94
3) Chloromethane	2.03	50	33292	4.634 ug/l	98
4) Vinyl Chloride	2.17	62	33735	4.609 ug/l	95
5) Bromomethane	2.54	94	17737	4.053 ug/l	99
6) Chloroethane	2.69	64	22063	4.894 ug/l	98
7) Trichlorofluoromethane	3.00	101	39743	4.778 ug/l	100
8) Diethyl Ether	3.39	74	18426	5.286 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	28085	5.200 ug/l	97
10) 1,1-Dichloroethene	3.72	96	27506	5.302 ug/l	96
11) Methyl Iodide	3.93	142	20061	3.089 ug/l	99
12) Methyl Acetate	4.30	43	35490	5.087 ug/l	96
13) Acrolein	3.60	56	3468m	9.785 ug/l	
14) Acrylonitrile	4.97	53	70196	24.431 ug/l	99
15) Acetone	3.80	58	22410	27.631 ug/l	95
16) Carbon Disulfide	4.03	76	68016	5.464 ug/l	98
17) Allyl chloride	4.30	41	48883	5.118 ug/l	88
18) Methylene Chloride	4.53	84	33081	5.123 ug/l	91
19) trans-1,2-Dichloroethene	5.01	96	30273	5.237 ug/l	92
20) Diisopropyl ether	5.93	45	101222	4.637 ug/l	95
21) 1,1-Dichloroethane	5.83	63	61980	5.151 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	35073	5.010 ug/l	97
23) tert-Butyl Alcohol	4.76	59	27579	28.909 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	98170	5.022 ug/l	96
25) Chloroform	7.36	83	62409	5.089 ug/l	94
26) Cyclohexane	7.64	56	54311	5.233 ug/l	# 99
29) 1,1-Dichloropropene	7.78	75	46062	5.023 ug/l	98
30) 2-Butanone	6.82	43	105049	25.500 ug/l	99
31) 2,2-Dichloropropane	6.80	77	46459	4.803 ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	49637	4.858 ug/l	99
33) Carbon Tetrachloride	7.76	117	39853	4.715 ug/l	95
34) Benzene	8.03	78	134948	5.006 ug/l	# 68
35) Methacrylonitrile	7.16	41	20230	5.201 ug/l	97
36) 1,2-Dichloroethane	8.11	62	53549	5.123 ug/l	100
37) Trichloroethene	8.83	130	34173	5.189 ug/l	94
38) Methylcyclohexane	9.07	83	54339	5.155 ug/l	99
39) 1,2-Dichloropropane	9.11	63	36211	4.818 ug/l	98
40) Dibromomethane	9.20	93	22742	4.946 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	41374	4.461	ug/l #	99
42) Vinyl Acetate	5.87	43	409681	24.804	ug/l	99
43) Ethyl Acetate	6.91	43	40536	4.864	ug/l	99
44) Isopropyl Acetate	8.15	43	74103	5.011	ug/l	96
45) 1,4-Dioxane	9.19	88	12171	102.927	ug/l	94
46) Methyl methacrylate	9.19	41	34194	4.783	ug/l	98
47) n-amyl Acetate	12.08	43	56264	4.199	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	43985	4.430	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	48354	4.332	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	31415	4.738	ug/l	97
51) Ethyl methacrylate	10.43	69	46110	4.460	ug/l	97
52) 1,3-Dichloropropane	10.71	76	57428	4.927	ug/l	99
53) Dibromochloromethane	10.90	129	26737	4.038	ug/l	100
54) 1,2-Dibromoethane	11.00	107	32357	4.872	ug/l	94
55) 2-Chloroethyl vinyl ether	9.69	63	93248	19.628	ug/l	99
56) Bromoform	12.13	173	15493	3.779	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	208909	26.577	ug/l	98
59) 2-Hexanone	10.75	43	153664	26.028	ug/l	99
61) Tetrachloroethene	10.63	164	27586	5.342	ug/l	94
62) Toluene	10.15	91	143950	5.154	ug/l	99
64) Chlorobenzene	11.44	112	85275	4.925	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	28180	4.674	ug/l	97
66) Ethyl Benzene	11.51	91	155051	5.072	ug/l	99
67) m/p-Xylenes	11.62	106	113869	9.752	ug/l	100
68) o-Xylene	11.95	106	54449	4.752	ug/l	96
69) Styrene	11.97	104	88669	4.566	ug/l	99
70) Isopropylbenzene	12.26	105	147837	4.914	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	45180	4.806	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	38365m	4.599	ug/l	
73) Bromobenzene	12.53	156	34701	4.781	ug/l	98
74) n-propylbenzene	12.60	91	170367	4.945	ug/l	100
75) 2-Chlorotoluene	12.68	91	99672	4.636	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	122867	4.779	ug/l	100
77) t-1,4-Dichloro-2-butene	12.31	75	7881	3.116	ug/l	85
78) 4-Chlorotoluene	12.78	91	102105	4.635	ug/l	99
79) tert-butylbenzene	13.00	119	107916	4.844	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	121303	4.724	ug/l	100
81) sec-Butylbenzene	13.18	105	141165	4.739	ug/l	99
82) p-Isopropyltoluene	13.30	119	124832	4.699	ug/l	98
83) 1,3-Dichlorobenzene	13.29	146	63255	4.714	ug/l	95
84) 1,4-Dichlorobenzene	13.37	146	60218	4.545	ug/l	100
85) n-Butylbenzene	13.62	91	108994	4.414	ug/l	98
86) Hexachloroethane	13.88	117	16493	3.859	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	61230	4.682	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.28	75	8085	4.789	ug/l	95
89) 1,2,4-Trichlorobenzene	14.92	180	34723	4.331	ug/l	97
90) Hexachlorobutadiene	15.02	225	18470	4.985	ug/l	96
91) Naphthalene	15.14	128	96007	4.378	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	34375	4.510	ug/l	99

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

