

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081019\
 Data File : VN057168.D
 Acq On : 10 Aug 2019 11:26
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:55:37 PM

Quant Time: Aug 11 03:47:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:32:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	167688	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	948193	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.90	117	869042	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	333170	30.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.60%
60) 4-Bromofluorobenzene	11.92	95	414941	32.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.90%
63) Toluene-d8	9.56	98	1161616	28.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	1434477	156.833	ug/l 99
3) Chloromethane	2.00	50	1666618	157.300	ug/l 99
4) Vinyl Chloride	2.11	62	1694745	157.231	ug/l 98
5) Bromomethane	2.42	94	1177378	153.339	ug/l 99
6) Chloroethane	2.54	64	1080716	154.619	ug/l 99
7) Trichlorofluoromethane	2.82	101	2493668	155.156	ug/l 100
8) Diethyl Ether	3.14	74	936253	156.299	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.44	101	1487958	153.053	ug/l 99
10) 1,1-Dichloroethene	3.43	96	1495801	155.616	ug/l 98
11) Methyl Iodide	3.63	142	2493459	166.247	ug/l 98
12) Methyl Acetate	3.89	43	1492175	149.025	ug/l 98
13) Acrolein	3.31	56	850114	769.854	ug/l 98
14) Acrylonitrile	4.45	53	3343648	800.390	ug/l 99
15) Acetone	3.48	58	983420	709.309	ug/l 94
16) Carbon Disulfide	3.72	76	4170204	160.816	ug/l 100
17) Allyl chloride	3.91	41	2179546	153.807	ug/l 98
18) Methylene Chloride	4.10	84	1657395	152.092	ug/l 97
19) trans-1,2-Dichloroethene	4.50	96	1592237	154.513	ug/l 98
20) Diisopropyl ether	5.32	45	4421438	152.990	ug/l 89
21) 1,1-Dichloroethane	5.25	63	2734243	151.904	ug/l 99
22) cis-1,2-Dichloroethene	6.21	96	1809834	154.307	ug/l 98
23) tert-Butyl Alcohol	4.24	59	1101597	799.113	ug/l 100
24) Methyl tert-Butyl Ether	4.49	73	4477271	158.400	ug/l 99
25) Chloroform	6.76	83	2811956	151.930	ug/l 100
26) Cyclohexane	7.07	56	2399221	155.921	ug/l # 99
29) 1,1-Dichloropropene	7.20	75	2181809	153.010	ug/l 100
30) 2-Butanone	6.20	43	4224187	752.459	ug/l 100
31) 2,2-Dichloropropane	6.21	77	2302695	151.042	ug/l 100
32) 1,1,1-Trichloroethane	6.98	97	2522866	152.778	ug/l 99
33) Carbon Tetrachloride	7.18	117	2278932	155.032	ug/l 96
34) Benzene	7.46	78	6535457	150.148	ug/l # 95
35) Methacrylonitrile	6.55	41	905805	159.647	ug/l 93
36) 1,2-Dichloroethane	7.54	62	2081246	149.674	ug/l 99
37) Trichloroethene	8.27	130	1856516	150.097	ug/l 99
38) Methylcyclohexane	8.53	83	2647751	155.605	ug/l 99
39) 1,2-Dichloropropane	8.56	63	1694632	87.986	ug/l 97
40) Dibromomethane	8.65	93	1093374	151.378	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	2247105	156.462	ug/l	97
42) Vinyl Acetate	5.26	43	18079954	774.698	ug/l	99
43) Ethyl Acetate	6.28	43	1649427	159.308	ug/l	100
44) Isopropyl Acetate	7.56	43	2917008	155.169	ug/l	97
45) 1,4-Dioxane	8.64	88	533093	3038.786	ug/l	97
46) Methyl methacrylate	8.64	41	1386493	161.763	ug/l	97
47) n-amyl Acetate	11.58	43	2484400	179.632	ug/l	98
48) t-1,3-Dichloropropene	9.85	75	2499427	163.208	ug/l	100
49) cis-1,3-Dichloropropene	9.30	75	2755909	175.151	ug/l	99
50) 1,1,2-Trichloroethane	10.04	97	1575685	152.636	ug/l	97
51) Ethyl methacrylate	9.90	69	2407300	165.243	ug/l	99
52) 1,3-Dichloropropane	10.19	76	2611596	151.775	ug/l	99
53) Dibromochloromethane	10.39	129	1876041	161.279	ug/l	99
54) 1,2-Dibromoethane	10.50	107	1698167	157.588	ug/l	98
55) 2-Chloroethyl vinyl ether	9.15	63	3782210	919.487	ug/l	100
56) Bromoform	11.64	173	1453398	169.083	ug/l	99
58) 4-Methyl-2-Pentanone	9.45	43	8449434	756.841	ug/l	99
59) 2-Hexanone	10.24	43	6036814	752.125	ug/l	98
61) Tetrachloroethene	10.11	164	1766519	132.439	ug/l	97
62) Toluene	9.63	91	7198748	145.530	ug/l	100
64) Chlorobenzene	10.93	112	4593270	150.974	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.01	131	1736342	148.822	ug/l	98
66) Ethyl Benzene	11.01	91	8085213	152.480	ug/l	100
67) m/p-Xylenes	11.13	106	6128515	306.483	ug/l	99
68) o-Xylene	11.46	106	2968147	152.890	ug/l	99
69) Styrene	11.47	104	5115400	164.324	ug/l	99
70) Isopropylbenzene	11.76	105	7981490	152.705	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.02	83	2122299	148.255	ug/l	100
72) 1,2,3-Trichloropropane	12.08	75	1930770m	152.115	ug/l	
73) Bromobenzene	12.04	156	2157581	159.194	ug/l	96
74) n-propylbenzene	12.11	91	9046495	164.871	ug/l	100
75) 2-Chlorotoluene	12.20	91	5325224	156.910	ug/l	99
76) 1,3,5-Trimethylbenzene	12.26	105	6857327	162.297	ug/l	88
77) t-1,4-Dichloro-2-butene	11.82	75	749421	177.739	ug/l	90
78) 4-Chlorotoluene	12.30	91	5345576	169.594	ug/l	99
79) tert-butylbenzene	12.52	119	5905816	152.255	ug/l	98
80) 1,2,4-Trimethylbenzene	12.57	105	6729709	162.149	ug/l	99
81) sec-Butylbenzene	12.70	105	7874340	161.004	ug/l	99
82) p-Isopropyltoluene	12.82	119	7273514	167.017	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	3601267	174.506	ug/l	98
84) 1,4-Dichlorobenzene	12.90	146	3525185	183.635	ug/l	99
85) n-Butylbenzene	13.15	91	5855062	185.944	ug/l	99
86) Hexachloroethane	13.41	117	1290344	162.949	ug/l	99
87) 1,2-Dichlorobenzene	13.19	146	3444289	168.296	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.81	75	365724	182.091	ug/l	95
89) 1,2,4-Trichlorobenzene	14.45	180	1766501	215.435	ug/l	98
90) Hexachlorobutadiene	14.55	225	1325735	150.258	ug/l	99
91) Naphthalene	14.67	128	3651523	235.050	ug/l	100
92) 1,2,3-Trichlorobenzene	14.83	180	1580535	209.780	ug/l	97

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

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