

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112618\
 Data File : VN052459.D
 Acq On : 26 Nov 2018 14:40
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 11/27/2018 3:52:11 PM

Quant Time: Nov 27 00:48:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:15:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	181896	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1037024	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	939222	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	361749	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	12.40	95	438686	30.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.77%
63) Toluene-d8	10.09	98	1278105	29.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.83%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	1507404	145.51	ug/l	100
3) Chloromethane	2.06	50	2009519	146.26	ug/l	100
4) Vinyl Chloride	2.19	62	2043685	147.38	ug/l	97
5) Bromomethane	2.56	94	1193528	150.95	ug/l	97
6) Chloroethane	2.71	64	1210957	146.85	ug/l	100
7) Trichlorofluoromethane	3.02	101	2516157	147.03	ug/l	99
8) Diethyl Ether	3.41	74	960650	152.02	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1565778	144.33	ug/l	98
10) 1,1-Dichloroethene	3.74	96	1534836	150.47	ug/l	98
11) Methyl Iodide	3.96	142	2327141	164.32	ug/l	99
12) Methyl Acetate	4.32	43	1346589	155.37	ug/l	99
13) Acrolein	3.61	56	863374	848.06	ug/l	99
14) Acrylonitrile	4.99	53	2863448	775.41	ug/l	98
15) Acetone	3.82	58	697852	729.70	ug/l	99
16) Carbon Disulfide	4.06	76	4864473	150.63	ug/l	100
17) Allyl chloride	4.33	41	2671796	150.19	ug/l	99
18) Methylene Chloride	4.55	84	1720658	145.69	ug/l	99
19) trans-1,2-Dichloroethene	5.05	96	1650034	150.31	ug/l	99
20) Diisopropyl ether	5.95	45	5612897	150.14	ug/l	96
21) 1,1-Dichloroethane	5.85	63	3187627	149.61	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	1895188	150.64	ug/l	99
23) tert-Butyl Alcohol	4.78	59	463773	844.24	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	4162596	155.56	ug/l	98
25) Chloroform	7.37	83	3031898	147.50	ug/l	100
26) Cyclohexane	7.66	56	3031877	150.87	ug/l #	100
29) 1,1-Dichloropropene	7.80	75	2448176	154.59	ug/l	100
30) 2-Butanone	6.83	43	3321470	783.81	ug/l	100
31) 2,2-Dichloropropane	6.83	77	2301677	157.87	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	2546745	154.55	ug/l	98
33) Carbon Tetrachloride	7.78	117	2240702	155.41	ug/l	100
34) Benzene	8.04	78	7225200	151.75	ug/l #	91
35) Methacrylonitrile	7.17	41	848883	116.07	ug/l	98
36) 1,2-Dichloroethane	8.13	62	2183278	151.32	ug/l	100
37) Trichloroethene	8.84	130	1841228	152.50	ug/l	98
38) Methylcyclohexane	9.08	83	3011742	153.63	ug/l	98
39) 1,2-Dichloropropane	9.12	63	1947919	152.62	ug/l	97
40) Dibromomethane	9.21	93	1061929	153.97	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	2356068	154.62	ug/l	98
42) Vinyl Acetate	5.90	43	18650893	813.46	ug/l	99
43) Ethyl Acetate	6.93	43	1436871	76.22	ug/l #	66
44) Isopropyl Acetate	8.16	43	2616945	165.60	ug/l #	79
45) 1,4-Dioxane	9.20	88	282061	3262.59	ug/l	96
46) Methyl methacrylate	9.20	41	1374046	167.46	ug/l	98
47) n-amyl Acetate	12.07	43	2293872	175.07	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	2483373	168.08	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	2905932	161.43	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	1499352	153.36	ug/l	99
51) Ethyl methacrylate	10.43	69	2047675	166.77	ug/l	98
52) 1,3-Dichloropropane	10.71	76	2666112	153.21	ug/l	100
53) Dibromochloromethane	10.90	129	1713117	159.16	ug/l	97
54) 1,2-Dibromoethane	11.01	107	1528126	159.96	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	5790056	805.58	ug/l	100
56) Bromoform	12.13	173	1147534	163.11	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	7099225	779.66	ug/l	100
59) 2-Hexanone	10.75	43	4843488	778.68	ug/l	99
61) Tetrachloroethene	10.63	164	1670340	144.40	ug/l	98
62) Toluene	10.16	91	7693108	148.58	ug/l	100
64) Chlorobenzene	11.44	112	4768887	150.90	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	1685271	153.63	ug/l	99
66) Ethyl Benzene	11.51	91	8516520	152.62	ug/l	99
67) m/p-Xylenes	11.62	106	6307484	303.39	ug/l	100
68) o-Xylene	11.95	106	3064759	151.88	ug/l	99
69) Styrene	11.97	104	5075922	155.85	ug/l	100
70) Isopropylbenzene	12.25	105	8137454	151.57	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	1792108	153.45	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	1561602m	160.12	ug/l	
73) Bromobenzene	12.53	156	2003983	154.33	ug/l	99
74) n-propylbenzene	12.59	91	9594826	153.38	ug/l	99
75) 2-Chlorotoluene	12.68	91	5521591	152.07	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	6584743	151.84	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	553507	174.77	ug/l	93
78) 4-Chlorotoluene	12.78	91	5634769	155.40	ug/l	100
79) tert-butylbenzene	12.99	119	5728165	151.68	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	6690202	154.18	ug/l	100
81) sec-Butylbenzene	13.17	105	8028388	152.62	ug/l	100
82) p-Isopropyltoluene	13.29	119	6970909	155.63	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	3573612	156.48	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	3507644	158.97	ug/l	99
85) n-Butylbenzene	13.62	91	6242131	162.24	ug/l	99
86) Hexachloroethane	13.88	117	1203732	158.61	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	3328826	153.17	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	272535	166.59	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	1954955	182.59	ug/l	99
90) Hexachlorobutadiene	15.01	225	1051667	149.73	ug/l	100
91) Naphthalene	15.13	128	4048734	187.25	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	1769463	179.33	ug/l	97

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

