

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056019.D
 Acq On : 5 Jun 2019 20:33
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:43 AM

Quant Time: Jun 06 03:57:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	52992	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	295160	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	266098	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	97665	28.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.70%
60) 4-Bromofluorobenzene	12.40	95	124533	30.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.50%
63) Toluene-d8	10.09	98	351893	28.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	466604	187.127	ug/l 98
3) Chloromethane	2.06	50	531239	159.734	ug/l 99
4) Vinyl Chloride	2.18	62	538043	157.413	ug/l 99
5) Bromomethane	2.52	94	275551	134.178	ug/l 98
6) Chloroethane	2.67	64	284438	143.120	ug/l 95
7) Trichlorofluoromethane	3.00	101	654854	152.831	ug/l 96
8) Diethyl Ether	3.40	74	273839	146.987	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	402377	149.860	ug/l 99
10) 1,1-Dichloroethene	3.72	96	423218	151.799	ug/l 96
11) Methyl Iodide	3.93	142	691468	170.495	ug/l 99
12) Methyl Acetate	4.32	43	468624	137.867	ug/l 100
13) Acrolein	3.60	56	122315	294.842	ug/l 100
14) Acrylonitrile	4.99	53	1138075	740.633	ug/l 99
15) Acetone	3.82	58	353840	728.108	ug/l 96
16) Carbon Disulfide	4.03	76	1107864	145.065	ug/l 100
17) Allyl chloride	4.31	41	672152	138.226	ug/l 97
18) Methylene Chloride	4.54	84	479078	149.884	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	449062	149.795	ug/l 96
20) Diisopropyl ether	5.95	45	1364648	141.970	ug/l 95
21) 1,1-Dichloroethane	5.84	63	777202	142.948	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	522677	149.448	ug/l 100
23) tert-Butyl Alcohol	4.82	59	426259	648.265	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1331586	142.586	ug/l 97
25) Chloroform	7.37	83	779695	144.623	ug/l 99
26) Cyclohexane	7.65	56	724753	144.012	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	602813	147.480	ug/l 99
30) 2-Butanone	6.84	43	1564396	720.330	ug/l 99
31) 2,2-Dichloropropane	6.82	77	560541	123.313	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	670942	140.478	ug/l 99
33) Carbon Tetrachloride	7.77	117	586025	139.123	ug/l 99
34) Benzene	8.04	78	1868064	146.953	ug/l # 91
35) Methacrylonitrile	7.17	41	269713	133.267	ug/l 97
36) 1,2-Dichloroethane	8.12	62	576517	140.245	ug/l 99
37) Trichloroethene	8.83	130	530077	149.016	ug/l 98
38) Methylcyclohexane	9.08	83	763731	147.525	ug/l 97
39) 1,2-Dichloropropane	9.12	63	486195	143.493	ug/l 96
40) Dibromomethane	9.21	93	321244	145.930	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	609899	139.716	ug/l	99
42) Vinyl Acetate	5.89	43	5775743	697.474	ug/l	100
43) Ethyl Acetate	6.93	43	584957	138.062	ug/l	100
44) Isopropyl Acetate	8.17	43	976319	141.010	ug/l	98
45) 1,4-Dioxane	9.20	88	205885	3064.798	ug/l	93
46) Methyl methacrylate	9.20	41	474717	146.504	ug/l	99
47) n-amyl Acetate	12.07	43	832370	145.820	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	687419	144.256	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	766454	144.733	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	482103	150.415	ug/l	99
51) Ethyl methacrylate	10.43	69	753802	148.521	ug/l	100
52) 1,3-Dichloropropane	10.71	76	780060	148.157	ug/l	99
53) Dibromochloromethane	10.90	129	531437	146.626	ug/l	98
54) 1,2-Dibromoethane	11.00	107	512550	154.556	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	1437123	741.855	ug/l	99
56) Bromoform	12.13	173	408459	141.294	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	2977125	692.134	ug/l	100
59) 2-Hexanone	10.75	43	2164201	702.513	ug/l	98
61) Tetrachloroethene	10.63	164	527516	146.002	ug/l	99
62) Toluene	10.15	91	2087176	146.254	ug/l	99
64) Chlorobenzene	11.43	112	1308309	151.255	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	486445	143.013	ug/l	99
66) Ethyl Benzene	11.51	91	2290521	147.651	ug/l	100
67) m/p-Xylenes	11.62	106	1778098	301.508	ug/l	99
68) o-Xylene	11.95	106	862151	148.096	ug/l	99
69) Styrene	11.96	104	1487457	155.365	ug/l	99
70) Isopropylbenzene	12.25	105	2229572	146.258	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	671713	143.897	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	592181m	148.215	ug/l	
73) Bromobenzene	12.53	156	621548	154.180	ug/l	99
74) n-propylbenzene	12.59	91	2516597	154.223	ug/l	100
75) 2-Chlorotoluene	12.67	91	1488812	149.036	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1894438	150.828	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	207898	139.236	ug/l	91
78) 4-Chlorotoluene	12.77	91	1498294	158.916	ug/l	100
79) tert-butylbenzene	12.99	119	1616315	146.605	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1882418	151.624	ug/l	100
81) sec-Butylbenzene	13.17	105	2139421	152.586	ug/l	99
82) p-Isopropyltoluene	13.29	119	1998051	155.556	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	1049007	166.966	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	1030494	172.834	ug/l	100
85) n-Butylbenzene	13.61	91	1643685	166.550	ug/l	99
86) Hexachloroethane	13.87	117	330916	137.520	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	1022456	161.607	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	123567	146.949	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	643072	192.144	ug/l	98
90) Hexachlorobutadiene	15.01	225	354921	141.755	ug/l	100
91) Naphthalene	15.13	128	1713623	188.008	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	643889	183.697	ug/l	99

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

