

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054018.D
 Acq On : 1 Mar 2019 9:43
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:18 AM

Quant Time: Mar 01 10:05:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 09:50:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	114413	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	633359	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	559433	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	245112	30.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.03%
60) 4-Bromofluorobenzene	12.40	95	261884	31.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.87%
63) Toluene-d8	10.09	98	795221	28.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	321059	46.939	ug/l 100
3) Chloromethane	2.06	50	431301	49.066	ug/l 98
4) Vinyl Chloride	2.19	62	426644	47.825	ug/l 98
5) Bromomethane	2.57	94	261592	47.040	ug/l 97
6) Chloroethane	2.71	64	252326	48.038	ug/l 99
7) Trichlorofluoromethane	3.02	101	523741	48.166	ug/l 99
8) Diethyl Ether	3.41	74	201320	52.026	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	330201	45.883	ug/l 98
10) 1,1-Dichloroethene	3.74	96	313310	48.530	ug/l 97
11) Methyl Iodide	3.96	142	480137	54.636	ug/l 99
12) Methyl Acetate	4.32	43	276653	52.828	ug/l 98
13) Acrolein	3.61	56	122705	323.259	ug/l 98
14) Acrylonitrile	4.99	53	677538	277.435	ug/l 99
15) Acetone	3.81	58	194074	248.225	ug/l 97
16) Carbon Disulfide	4.06	76	1027284	49.980	ug/l 99
17) Allyl chloride	4.33	41	585887	53.268	ug/l 99
18) Methylene Chloride	4.55	84	364299	48.472	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	347205	50.039	ug/l 97
20) Diisopropyl ether	5.95	45	1155737	54.947	ug/l 98
21) 1,1-Dichloroethane	5.85	63	662805	49.512	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	385546	50.933	ug/l 97
23) tert-Butyl Alcohol	4.78	59	122252	285.780	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	897627	55.917	ug/l 99
25) Chloroform	7.37	83	641333	49.214	ug/l 99
26) Cyclohexane	7.65	56	618882	53.896	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	499078	50.893	ug/l 99
30) 2-Butanone	6.83	43	820283	268.674	ug/l 99
31) 2,2-Dichloropropane	6.82	77	485420	48.749	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	530786	48.903	ug/l 98
33) Carbon Tetrachloride	7.77	117	467721	48.631	ug/l 99
34) Benzene	8.04	78	1479099	50.052	ug/l # 94
35) Methacrylonitrile	7.17	41	170255	48.161	ug/l 96
36) 1,2-Dichloroethane	8.12	62	465154	47.009	ug/l 100
37) Trichloroethene	8.83	130	379294	47.998	ug/l 98
38) Methylcyclohexane	9.08	83	588124	52.641	ug/l 100
39) 1,2-Dichloropropane	9.12	63	399376	48.595	ug/l 98
40) Dibromomethane	9.21	93	231925	49.094	ug/l 99

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

41) Bromodichloromethane	9.40	83	490582	49.415	ug/l	99
42) Vinyl Acetate	5.89	43	4226993	285.552	ug/l	100
43) Ethyl Acetate	6.93	43	336042	53.984	ug/l #	67
44) Isopropyl Acetate	8.16	43	588328	53.745	ug/l	96
45) 1,4-Dioxane	9.20	88	74847	1531.849	ug/l	96
46) Methyl methacrylate	9.20	41	286306	58.155	ug/l	98
47) n-amyl Acetate	12.07	43	460234	66.962	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	499668	54.838	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	587794	53.104	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	324360	48.630	ug/l	99
51) Ethyl methacrylate	10.43	69	414153	61.512	ug/l	99
52) 1,3-Dichloropropane	10.71	76	567609	51.503	ug/l	99
53) Dibromochloromethane	10.90	129	361162	51.854	ug/l	99
54) 1,2-Dibromoethane	11.00	107	316330	52.844	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	986131	324.183	ug/l	99
56) Bromoform	12.13	173	241872	54.812	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	1666985	281.499	ug/l	98
59) 2-Hexanone	10.75	43	1094482	286.844	ug/l	99
61) Tetrachloroethene	10.63	164	374474	43.702	ug/l	98
62) Toluene	10.16	91	1562531	49.067	ug/l	100
64) Chlorobenzene	11.43	112	940135	48.562	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	345553	48.521	ug/l	99
66) Ethyl Benzene	11.51	91	1640777	51.318	ug/l	100
67) m/p-Xylenes	11.62	106	1264055	105.283	ug/l	100
68) o-Xylene	11.95	106	605324	51.898	ug/l	100
69) Styrene	11.96	104	985637	56.201	ug/l	100
70) Isopropylbenzene	12.25	105	1602765	52.117	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	394034	51.815	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	304010m	52.636	ug/l	
73) Bromobenzene	12.53	156	401609	51.618	ug/l	98
74) n-propylbenzene	12.59	91	1908369	52.841	ug/l	100
75) 2-Chlorotoluene	12.67	91	1113267	51.668	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1367051	53.012	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	110492	61.086	ug/l	98
78) 4-Chlorotoluene	12.77	91	1123169	53.308	ug/l	99
79) tert-butylbenzene	12.99	119	1178637	51.715	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1378284	54.849	ug/l	100
81) sec-Butylbenzene	13.17	105	1633291	51.941	ug/l	99
82) p-Isopropyltoluene	13.29	119	1407126	53.915	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	719145	53.911	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	688020	55.606	ug/l	100
85) n-Butylbenzene	13.61	91	1254194	59.513	ug/l	100
86) Hexachloroethane	13.87	117	249841	50.137	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	700354	53.101	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	60277	57.052	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	378568	72.592	ug/l	100
90) Hexachlorobutadiene	15.01	225	250788	48.314	ug/l	100
91) Naphthalene	15.13	128	782791	84.934	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	365847	66.257	ug/l	98

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

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