

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054017.D
 Acq On : 1 Mar 2019 9:16
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:12 AM

Quant Time: Mar 01 09:50:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 09:46:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	114632	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	623741	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	539925	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	243040	33.37	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.23%
60) 4-Bromofluorobenzene	12.40	95	244996	29.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.83%
63) Toluene-d8	10.09	98	793603	32.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	132125	17.299 ug/l	98
3) Chloromethane	2.06	50	173817	19.390 ug/l	100
4) Vinyl Chloride	2.19	62	174001	19.725 ug/l	98
5) Bromomethane	2.57	94	106301	18.691 ug/l	98
6) Chloroethane	2.71	64	102552	20.182 ug/l	98
7) Trichlorofluoromethane	3.02	101	213011	19.554 ug/l	97
8) Diethyl Ether	3.41	74	79931	19.749 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	135713	19.828 ug/l	99
10) 1,1-Dichloroethene	3.74	96	127102	19.029 ug/l	99
11) Methyl Iodide	3.95	142	184224	18.834 ug/l	99
12) Methyl Acetate	4.32	43	102128	19.617 ug/l	97
13) Acrolein	3.60	56	55917	89.963 ug/l	99
14) Acrylonitrile	4.99	53	250044	107.361 ug/l	97
15) Acetone	3.81	58	79236	160.081 ug/l	96
16) Carbon Disulfide	4.06	76	403264	19.626 ug/l	100
17) Allyl chloride	4.32	41	224708	21.385 ug/l	99
18) Methylene Chloride	4.55	84	149055	19.499 ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	137232	19.441 ug/l	98
20) Diisopropyl ether	5.95	45	443365	19.703 ug/l	94
21) 1,1-Dichloroethane	5.85	63	264185	20.164 ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	153232	19.271 ug/l #	86
23) tert-Butyl Alcohol	4.78	59	43775	111.497 ug/l #	100
24) Methyl tert-Butyl Ether	5.04	73	332425	19.086 ug/l	98
25) Chloroform	7.37	83	258651	20.538 ug/l	100
26) Cyclohexane	7.65	56	237569	19.440 ug/l #	99
29) 1,1-Dichloropropene	7.79	75	193807	20.513 ug/l	100
30) 2-Butanone	6.83	43	304922	129.360 ug/l	100
31) 2,2-Dichloropropane	6.82	77	192028	20.994 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	211222	21.337 ug/l	99
33) Carbon Tetrachloride	7.77	117	188566	21.761 ug/l	99
34) Benzene	8.04	78	585438	20.618 ug/l	97
35) Methacrylonitrile	7.18	41	73816	24.268 ug/l	90
36) 1,2-Dichloroethane	8.12	62	189501	22.989 ug/l	100
37) Trichloroethene	8.83	130	150653	19.585 ug/l	98
38) Methylcyclohexane	9.08	83	222229	20.110 ug/l	98
39) 1,2-Dichloropropane	9.12	63	161744	21.814 ug/l	98
40) Dibromomethane	9.21	93	91208	21.751 ug/l	99

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

41) Bromodichloromethane	9.40	83	192683	21.397	ug/l	98
42) Vinyl Acetate	5.90	43	1544711	120.118	ug/l	100
43) Ethyl Acetate	6.93	43	137504	26.121	ug/l #	73
44) Isopropyl Acetate	8.16	43	219652	22.400	ug/l	95
45) 1,4-Dioxane	9.20	88	26926	449.041	ug/l	98
46) Methyl methacrylate	9.20	41	101957	20.582	ug/l	97
47) n-amyl Acetate	12.07	43	151090	17.545	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	184490	20.073	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	222781	20.585	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	130024	21.627	ug/l	99
51) Ethyl methacrylate	10.43	69	144464	18.437	ug/l	99
52) 1,3-Dichloropropane	10.71	76	220393	21.280	ug/l	99
53) Dibromochloromethane	10.90	129	138117	20.454	ug/l	98
54) 1,2-Dibromoethane	11.00	107	121067	19.961	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	328446	73.039	ug/l	99
56) Bromoform	12.13	173	90398	19.570	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	596061	115.854	ug/l	97
59) 2-Hexanone	10.75	43	384562	108.270	ug/l	98
61) Tetrachloroethene	10.63	164	157584	19.750	ug/l	96
62) Toluene	10.16	91	611597	20.654	ug/l	99
64) Chlorobenzene	11.43	112	365902	19.692	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	134075	20.569	ug/l	99
66) Ethyl Benzene	11.51	91	627264	19.534	ug/l	99
67) m/p-Xylenes	11.62	106	482757	39.751	ug/l	100
68) o-Xylene	11.95	106	230298	19.569	ug/l	99
69) Styrene	11.96	104	365880	19.047	ug/l	99
70) Isopropylbenzene	12.25	105	610978	19.732	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	147315	22.601	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	113151m	19.824	ug/l	
73) Bromobenzene	12.53	156	151960	19.092	ug/l	98
74) n-propylbenzene	12.59	91	723357	20.637	ug/l	99
75) 2-Chlorotoluene	12.67	91	423801	20.416	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	518530	21.111	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	36739	18.318	ug/l	97
78) 4-Chlorotoluene	12.77	91	424393	20.084	ug/l	98
79) tert-butylbenzene	12.99	119	449824	20.999	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	515932	20.958	ug/l	100
81) sec-Butylbenzene	13.17	105	619153	21.827	ug/l	99
82) p-Isopropyltoluene	13.29	119	526293	21.471	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	265266	19.574	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	251871	19.066	ug/l	99
85) n-Butylbenzene	13.62	91	437310	21.939	ug/l	99
86) Hexachloroethane	13.87	117	93990	24.017	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	259754	20.628	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21113	22.650	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	117019	19.146	ug/l	99
90) Hexachlorobutadiene	15.01	225	95570	25.833	ug/l	99
91) Naphthalene	15.13	128	219804	16.950	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	120790	22.151	ug/l	97

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

