

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058018.D
 Acq On : 13 Sep 2019 14:58
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 2:50:06 PM

Quant Time: Sep 14 02:11:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	75583	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	452401	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	397763	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	206682	30.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.03%
60) 4-Bromofluorobenzene	12.41	95	199459	29.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.67%
63) Toluene-d8	10.09	98	574479	30.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	96362	21.101	ug/l 100
3) Chloromethane	2.04	50	101914	17.898	ug/l 95
4) Vinyl Chloride	2.17	62	101939	17.497	ug/l 99
5) Bromomethane	2.55	94	59199	16.282	ug/l 95
6) Chloroethane	2.69	64	64816	17.902	ug/l 100
7) Trichlorofluoromethane	3.00	101	129484	19.238	ug/l 94
8) Diethyl Ether	3.39	74	55877	20.579	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	87078	20.719	ug/l 99
10) 1,1-Dichloroethene	3.72	96	79346	19.853	ug/l 94
11) Methyl Iodide	3.93	142	90260	16.880	ug/l 99
12) Methyl Acetate	4.30	43	113942	20.775	ug/l 97
13) Acrolein	3.59	56	5080m	17.071	ug/l
14) Acrylonitrile	4.96	53	229142	102.484	ug/l # 92
15) Acetone	3.80	58	57745	90.971	ug/l 96
16) Carbon Disulfide	4.03	76	162475	17.458	ug/l 97
17) Allyl chloride	4.30	41	146907m	20.060	ug/l
18) Methylene Chloride	4.53	84	101895	20.232	ug/l 98
19) trans-1,2-Dichloroethene	5.02	96	90003	20.206	ug/l 95
20) Diisopropyl ether	5.93	45	336499	19.654	ug/l 98
21) 1,1-Dichloroethane	5.83	63	196620	20.828	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	110915	20.323	ug/l 98
23) tert-Butyl Alcohol	4.76	59	69731	95.532	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	309667	20.215	ug/l # 100
25) Chloroform	7.36	83	194937	20.283	ug/l 99
26) Cyclohexane	7.64	56	154932	19.533	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	137795	19.362	ug/l 98
30) 2-Butanone	6.81	43	307034	95.680	ug/l 100
31) 2,2-Dichloropropane	6.81	77	139221	18.528	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	155026	19.374	ug/l 97
33) Carbon Tetrachloride	7.76	117	124399	19.057	ug/l 98
34) Benzene	8.03	78	419963	19.915	ug/l 95
35) Methacrylonitrile	7.15	41	58817	19.761	ug/l 96
36) 1,2-Dichloroethane	8.11	62	165980	20.283	ug/l 100
37) Trichloroethene	8.83	130	100596	19.641	ug/l 95
38) Methylcyclohexane	9.07	83	154202	19.028	ug/l 99
39) 1,2-Dichloropropane	9.11	63	117482	19.838	ug/l 97
40) Dibromomethane	9.20	93	72552	20.142	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	137114	18.882	ug/l	99
42) Vinyl Acetate	5.87	43	1340415	103.931	ug/l	99
43) Ethyl Acetate	6.91	43	113215	17.292	ug/l #	79
44) Isopropyl Acetate	8.15	43	230858	20.224	ug/l #	93
45) 1,4-Dioxane	9.19	88	32106	357.928	ug/l	97
46) Methyl methacrylate	9.19	41	105306	18.885	ug/l	98
47) n-amyl Acetate	12.07	43	189555	18.077	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	138185	17.874	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	160978	18.559	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	102131	19.548	ug/l	98
51) Ethyl methacrylate	10.43	69	150469	18.574	ug/l	97
52) 1,3-Dichloropropane	10.71	76	179351	19.629	ug/l	100
53) Dibromochloromethane	10.90	129	91792	17.790	ug/l	97
54) 1,2-Dibromoethane	11.00	107	96372	18.539	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	338363	87.899	ug/l	99
56) Bromoform	12.13	173	52668	16.477	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	666465	108.044	ug/l	99
59) 2-Hexanone	10.75	43	462572	99.931	ug/l	99
61) Tetrachloroethene	10.63	164	81299	20.103	ug/l	98
62) Toluene	10.15	91	452292	20.536	ug/l	99
64) Chlorobenzene	11.44	112	273300	20.003	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	91392	19.265	ug/l	97
66) Ethyl Benzene	11.51	91	495055	20.595	ug/l	99
67) m/p-Xylenes	11.62	106	365095	39.795	ug/l	99
68) o-Xylene	11.95	106	176388	19.625	ug/l	99
69) Styrene	11.97	104	298839	19.501	ug/l	99
70) Isopropylbenzene	12.25	105	486053	20.455	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	145988	19.658	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	124339m	18.864	ug/l	
73) Bromobenzene	12.53	156	106764	18.767	ug/l	95
74) n-propylbenzene	12.60	91	568054	20.924	ug/l	100
75) 2-Chlorotoluene	12.68	91	333007	19.693	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	406985	20.114	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	30467	15.581	ug/l	98
78) 4-Chlorotoluene	12.78	91	342723	19.870	ug/l	98
79) tert-butylbenzene	13.00	119	348163	19.724	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	404916	20.084	ug/l	100
81) sec-Butylbenzene	13.18	105	470661	20.096	ug/l	99
82) p-Isopropyltoluene	13.29	119	420563	20.051	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	204351	19.326	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	203614	19.559	ug/l	98
85) n-Butylbenzene	13.62	91	372276	19.045	ug/l	98
86) Hexachloroethane	13.88	117	54100	16.193	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	202540	19.733	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.28	75	23634	18.075	ug/l	98
89) 1,2,4-Trichlorobenzene	14.92	180	119073	18.991	ug/l	99
90) Hexachlorobutadiene	15.02	225	54855	19.050	ug/l	99
91) Naphthalene	15.13	128	337959	19.589	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	116995	19.565	ug/l	99

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

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