

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055143.D
 Acq On : 19 Apr 2019 15:39
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/22/2019 10:07:17 AM

Quant Time: Apr 20 04:22:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	72626	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	387383	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	332398	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	169648	30.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.17%
60) 4-Bromofluorobenzene	12.40	95	149536	28.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.33%
63) Toluene-d8	10.09	98	481480	30.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	79123	18.524	ug/l 98
3) Chloromethane	2.06	50	106786	18.507	ug/l 98
4) Vinyl Chloride	2.19	62	89601	17.957	ug/l 100
5) Bromomethane	2.56	94	49406	17.118	ug/l 94
6) Chloroethane	2.70	64	49760	17.806	ug/l 99
7) Trichlorofluoromethane	3.02	101	134630	21.115	ug/l 99
8) Diethyl Ether	3.41	74	53382	26.075	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	83361	23.917	ug/l 95
10) 1,1-Dichloroethene	3.74	96	78278	24.291	ug/l 96
11) Methyl Iodide	3.96	142	116264	23.841	ug/l 92
12) Methyl Acetate	4.33	43	108301	27.323	ug/l 99
13) Acrolein	3.61	56	32959	94.878	ug/l 97
14) Acrylonitrile	4.99	53	196548	121.034	ug/l 99
15) Acetone	3.82	58	46338	115.314	ug/l 84
16) Carbon Disulfide	4.06	76	201573	18.648	ug/l 99
17) Allyl chloride	4.33	41	164717	20.756	ug/l 99
18) Methylene Chloride	4.55	84	96597	20.279	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	84156	20.061	ug/l 98
20) Diisopropyl ether	5.95	45	337986	21.023	ug/l 96
21) 1,1-Dichloroethane	5.85	63	176457	20.550	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	98859	20.275	ug/l 98
23) tert-Butyl Alcohol	4.79	59	39699	153.317	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	246550	22.785	ug/l # 65
25) Chloroform	7.37	83	173567	21.102	ug/l 96
26) Cyclohexane	7.66	56	149874	18.811	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	122873	20.367	ug/l 99
30) 2-Butanone	6.84	43	246476	123.077	ug/l 100
31) 2,2-Dichloropropane	6.83	77	107743	19.404	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	134847	21.146	ug/l 99
33) Carbon Tetrachloride	7.78	117	112586	20.393	ug/l 95
34) Benzene	8.04	78	371151	20.760	ug/l 98
35) Methacrylonitrile	7.17	41	44449	18.831	ug/l 96
36) 1,2-Dichloroethane	8.13	62	130787	21.404	ug/l 100
37) Trichloroethene	8.84	130	92745	20.349	ug/l 93
38) Methylcyclohexane	9.08	83	124275	17.763	ug/l 99
39) 1,2-Dichloropropane	9.12	63	107197	21.714	ug/l 98
40) Dibromomethane	9.21	93	61495	22.038	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	120440	20.914	ug/l	100
42) Vinyl Acetate	5.90	43	1161159	114.690	ug/l	100
43) Ethyl Acetate	6.93	43	106056	25.995	ug/l	97
44) Isopropyl Acetate	8.17	43	179839	26.011	ug/l #	83
45) 1,4-Dioxane	9.20	88	20711	540.701	ug/l	95
46) Methyl methacrylate	9.20	41	87675	24.513	ug/l	94
47) n-amyl Acetate	12.07	43	119578	23.482	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	111379	21.061	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	135600	20.771	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	84175	22.210	ug/l	98
51) Ethyl methacrylate	10.43	69	103137	22.829	ug/l	99
52) 1,3-Dichloropropane	10.71	76	147760	22.250	ug/l	98
53) Dibromochloromethane	10.90	129	81372	20.844	ug/l	97
54) 1,2-Dibromoethane	11.01	107	79781	22.423	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	195333	103.422	ug/l	99
56) Bromoform	12.13	173	52831	21.537	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	519981	135.650	ug/l	100
59) 2-Hexanone	10.75	43	324364	133.200	ug/l	99
61) Tetrachloroethene	10.63	164	88269	20.405	ug/l	96
62) Toluene	10.16	91	385030	21.023	ug/l	99
64) Chlorobenzene	11.43	112	223813	20.242	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	84226	21.418	ug/l	99
66) Ethyl Benzene	11.51	91	395701	20.155	ug/l	99
67) m/p-Xylenes	11.62	106	291705	39.972	ug/l	98
68) o-Xylene	11.95	106	147550	20.459	ug/l	98
69) Styrene	11.96	104	216760	19.356	ug/l	98
70) Isopropylbenzene	12.25	105	382498	19.837	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	108077	24.506	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	95709m	26.278	ug/l	
73) Bromobenzene	12.53	156	89523	19.643	ug/l	97
74) n-propylbenzene	12.59	91	406963	18.853	ug/l	100
75) 2-Chlorotoluene	12.67	91	259210	19.910	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	301577	19.346	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	20123	21.919	ug/l	97
78) 4-Chlorotoluene	12.77	91	241992	19.508	ug/l	98
79) tert-butylbenzene	12.99	119	260742	19.331	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	291825	19.056	ug/l	99
81) sec-Butylbenzene	13.17	105	335973	18.641	ug/l	98
82) p-Isopropyltoluene	13.29	119	268408	17.646	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	144073	18.896	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	131471	18.145	ug/l	99
85) n-Butylbenzene	13.61	91	186320	15.377	ug/l	98
86) Hexachloroethane	13.87	117	44720	18.366	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	147134	19.705	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13720	23.407	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	46752	14.005	ug/l	94
90) Hexachlorobutadiene	15.01	225	40654	16.703	ug/l	99
91) Naphthalene	15.13	128	118061	16.890	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	54005	16.176	ug/l	99

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

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