

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056801.D
 Acq On : 18 Jul 2019 9:22
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 11:31:31 PM

Quant Time: Jul 19 05:39:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53414	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	294544	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	256530	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	104300	28.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.10%
60) 4-Bromofluorobenzene	12.40	95	116361	29.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.80%
63) Toluene-d8	10.09	98	359165	30.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	65738	21.659	ug/l 96
3) Chloromethane	2.06	50	84968	20.932	ug/l 98
4) Vinyl Chloride	2.18	62	82694	20.712	ug/l 99
5) Bromomethane	2.55	94	49750	19.769	ug/l 99
6) Chloroethane	2.70	64	46363	20.323	ug/l 94
7) Trichlorofluoromethane	3.01	101	108147	21.119	ug/l 96
8) Diethyl Ether	3.41	74	41551	19.841	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	67672	21.192	ug/l 99
10) 1,1-Dichloroethene	3.73	96	64134	20.358	ug/l 99
11) Methyl Iodide	3.95	142	78067	18.647	ug/l 98
12) Methyl Acetate	4.32	43	76033	18.030	ug/l 97
13) Acrolein	3.60	56	28788	96.828	ug/l 98
14) Acrylonitrile	4.99	53	178417	96.044	ug/l 98
15) Acetone	3.81	58	70927	110.609	ug/l 99
16) Carbon Disulfide	4.05	76	164721	19.825	ug/l 99
17) Allyl chloride	4.32	41	108584	19.704	ug/l 97
18) Methylene Chloride	4.55	84	74771	20.216	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	68547	20.325	ug/l 94
20) Diisopropyl ether	5.95	45	224219	20.420	ug/l 99
21) 1,1-Dichloroethane	5.85	63	127744	20.361	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	78801	19.982	ug/l 98
23) tert-Butyl Alcohol	4.78	59	62626	96.643	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	201590	20.063	ug/l 99
25) Chloroform	7.37	83	125480	20.529	ug/l 95
26) Cyclohexane	7.65	56	119720	20.529	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	95620	20.423	ug/l 99
30) 2-Butanone	6.83	43	264176	97.454	ug/l 98
31) 2,2-Dichloropropane	6.82	77	94988	20.963	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	103269	20.692	ug/l 99
33) Carbon Tetrachloride	7.77	117	89035	20.731	ug/l 94
34) Benzene	8.04	78	296366	20.601	ug/l 100
35) Methacrylonitrile	7.18	41	41047m	19.821	ug/l
36) 1,2-Dichloroethane	8.12	62	93701	20.277	ug/l 99
37) Trichloroethene	8.84	130	79472	20.341	ug/l 94
38) Methylcyclohexane	9.08	83	124273	21.011	ug/l 97
39) 1,2-Dichloropropane	9.12	63	78138	20.236	ug/l 99
40) Dibromomethane	9.21	93	49958	20.312	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	93140	20.548	ug/l	97
42) Vinyl Acetate	5.89	43	911884	101.075	ug/l	99
43) Ethyl Acetate	6.93	43	93917	19.172	ug/l	97
44) Isopropyl Acetate	8.16	43	148110	19.385	ug/l #	79
45) 1,4-Dioxane	9.20	88	30511	394.734	ug/l	98
46) Methyl methacrylate	9.20	41	70997	19.343	ug/l	97
47) n-amyl Acetate	12.07	43	115707	18.518	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	98948	19.845	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	112830	20.060	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	72055	20.109	ug/l	99
51) Ethyl methacrylate	10.43	69	107049	19.423	ug/l	98
52) 1,3-Dichloropropane	10.71	76	121886	20.329	ug/l	99
53) Dibromochloromethane	10.90	129	73841	20.390	ug/l	98
54) 1,2-Dibromoethane	11.00	107	76179	20.456	ug/l	95
55) 2-Chloroethyl vinyl ether	9.69	63	243070	91.200	ug/l	99
56) Bromoform	12.13	173	52783	19.689	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	478037	99.008	ug/l	100
59) 2-Hexanone	10.75	43	359949	98.212	ug/l	99
61) Tetrachloroethene	10.63	164	79381	21.535	ug/l	99
62) Toluene	10.15	91	314572	20.878	ug/l	98
64) Chlorobenzene	11.43	112	190554	20.736	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	69957	20.764	ug/l	98
66) Ethyl Benzene	11.51	91	333770	20.494	ug/l	99
67) m/p-Xylenes	11.62	106	253728	41.281	ug/l	99
68) o-Xylene	11.95	106	124154	20.710	ug/l	97
69) Styrene	11.96	104	201170	20.251	ug/l	99
70) Isopropylbenzene	12.25	105	324091	20.624	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	100095	19.625	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	88799m	20.370	ug/l	
73) Bromobenzene	12.53	156	83353	20.298	ug/l	100
74) n-propylbenzene	12.59	91	364207	20.543	ug/l	99
75) 2-Chlorotoluene	12.67	91	220384	20.640	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	279570	20.858	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	27054	18.670	ug/l	96
78) 4-Chlorotoluene	12.77	91	207664	20.056	ug/l	100
79) tert-butylbenzene	12.99	119	235890	20.688	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	273868	20.603	ug/l	100
81) sec-Butylbenzene	13.17	105	308194	20.420	ug/l	100
82) p-Isopropyltoluene	13.29	119	283915	20.685	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	135007	19.726	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	127272	19.400	ug/l	99
85) n-Butylbenzene	13.61	91	221442	19.559	ug/l	99
86) Hexachloroethane	13.87	117	44957	20.875	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	138627	20.155	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16966	19.280	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	62420	16.872	ug/l	100
90) Hexachlorobutadiene	15.01	225	51367	21.355	ug/l	98
91) Naphthalene	15.13	128	153884	15.465	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	67638	17.436	ug/l	99

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

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