

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054977.D
 Acq On : 11 Apr 2019 14:54
 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
 4/12/2019 1:41:07 PM

Quant Time: Apr 12 07:48:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:37:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	69541	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	389900	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	342093	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	164167	32.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.77%
60) 4-Bromofluorobenzene	12.40	95	155395	29.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.53%
63) Toluene-d8	10.09	98	494336	29.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	84882	24.315	ug/l 100
3) Chloromethane	2.06	50	109803	23.763	ug/l 100
4) Vinyl Chloride	2.19	62	95799	20.902	ug/l 100
5) Bromomethane	2.56	94	54369	19.395	ug/l 100
6) Chloroethane	2.71	64	53277	19.856	ug/l 100
7) Trichlorofluoromethane	3.02	101	124854	22.337	ug/l 100
8) Diethyl Ether	3.41	74	39058	18.961	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	68398	19.203	ug/l 100
10) 1,1-Dichloroethene	3.73	96	62135	18.716	ug/l 100
11) Methyl Iodide	3.94	142	90527	18.549	ug/l 100
12) Methyl Acetate	4.33	43	73585	25.786	ug/l 100
13) Acrolein	3.61	56	32005	116.957	ug/l 100
14) Acrylonitrile	5.00	53	148643	110.717	ug/l 100
15) Acetone	3.82	58	44396	114.209	ug/l 100
16) Carbon Disulfide	4.04	76	194325	18.134	ug/l 100
17) Allyl chloride	4.31	41	148750	25.002	ug/l 100
18) Methylene Chloride	4.54	84	89565	22.972	ug/l 100
19) trans-1,2-Dichloroethene	5.03	96	79521	21.892	ug/l 100
20) Diisopropyl ether	5.96	45	300273	25.123	ug/l 100
21) 1,1-Dichloroethane	5.84	63	163005	23.123	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	91225	22.486	ug/l 100
23) tert-Butyl Alcohol	4.81	59	22708	95.856	ug/l # 100
24) Methyl tert-Butyl Ether	5.06	73	199836	22.219	ug/l 100
25) Chloroform	7.37	83	156572	23.044	ug/l 100
26) Cyclohexane	7.65	56	149106	23.369	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	118323	22.110	ug/l 100
30) 2-Butanone	6.84	43	202852	120.272	ug/l 100
31) 2,2-Dichloropropane	6.82	77	107085	20.377	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	123233	21.413	ug/l 100
33) Carbon Tetrachloride	7.77	117	104869	20.627	ug/l 100
34) Benzene	8.04	78	348203	21.898	ug/l 100
35) Methacrylonitrile	7.18	41	46871	24.357	ug/l 100
36) 1,2-Dichloroethane	8.12	62	120213	23.280	ug/l 100
37) Trichloroethene	8.83	130	90112	21.638	ug/l 100
38) Methylcyclohexane	9.08	83	137107	21.734	ug/l 100
39) 1,2-Dichloropropane	9.12	63	96130	21.980	ug/l 100
40) Dibromomethane	9.21	93	55070	22.030	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	109321	20.715	ug/l	100
42) Vinyl Acetate	5.90	43	938491	108.733	ug/l	100
43) Ethyl Acetate	6.94	43	77724	22.066	ug/l	100
44) Isopropyl Acetate	8.17	43	125133	20.383	ug/l	100
45) 1,4-Dioxane	9.21	88	15367	470.876	ug/l	100
46) Methyl methacrylate	9.20	41	63786	21.590	ug/l	100
47) n-amyl Acetate	12.07	43	90183	20.340	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	91460	17.589	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	120019	19.504	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	73264	20.975	ug/l	100
51) Ethyl methacrylate	10.43	69	79282	19.286	ug/l	100
52) 1,3-Dichloropropane	10.71	76	128548	21.500	ug/l	100
53) Dibromochloromethane	10.90	129	71621	18.893	ug/l	100
54) 1,2-Dibromoethane	11.00	107	65136	19.795	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	177799	94.056	ug/l	100
56) Bromoform	12.12	173	42414	17.024	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	370415	111.049	ug/l	100
59) 2-Hexanone	10.75	43	246213	112.939	ug/l	100
61) Tetrachloroethene	10.63	164	90438	21.525	ug/l	100
62) Toluene	10.15	91	371016	22.110	ug/l	100
64) Chlorobenzene	11.43	112	223933	21.873	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	76896	20.577	ug/l	100
66) Ethyl Benzene	11.51	91	391670	22.333	ug/l	100
67) m/p-Xylenes	11.62	106	297197	45.218	ug/l	100
68) o-Xylene	11.95	106	145732	22.785	ug/l	100
69) Styrene	11.96	104	220912	22.043	ug/l	100
70) Isopropylbenzene	12.25	105	393428	23.424	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	88443	21.493	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	74839m	23.809	ug/l	100
73) Bromobenzene	12.53	156	91116	21.651	ug/l	100
74) n-propylbenzene	12.59	91	441270	22.183	ug/l	100
75) 2-Chlorotoluene	12.67	91	266371	22.784	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	321549	22.712	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	15397	14.417	ug/l	100
78) 4-Chlorotoluene	12.77	91	247593	21.343	ug/l	100
79) tert-butylbenzene	12.99	119	276794	22.262	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	307600	21.975	ug/l	100
81) sec-Butylbenzene	13.17	105	371988	21.907	ug/l	100
82) p-Isopropyltoluene	13.29	119	312567	21.634	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	150821	20.500	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	140758	20.086	ug/l	100
85) n-Butylbenzene	13.61	91	233021	18.842	ug/l	100
86) Hexachloroethane	13.87	117	47175	17.546	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	149406	20.924	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11236	19.335	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	56267	16.107	ug/l	100
90) Hexachlorobutadiene	15.01	225	51861	19.634	ug/l	100
91) Naphthalene	15.13	128	108228	15.610	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	59100	16.966	ug/l	100

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

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