

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041219\
 Data File : VN054991.D
 Acq On : 12 Apr 2019 10:44
 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
 4/17/2019 9:35:33 AM

Quant Time: Apr 12 23:14:57 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	74925	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	402346	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	351693	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	165313	28.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.50%
60) 4-Bromofluorobenzene	12.40	95	163236	29.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.37%
63) Toluene-d8	10.09	98	501601	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	89030	20.204	ug/l 96
3) Chloromethane	2.06	50	121266	20.371	ug/l 94
4) Vinyl Chloride	2.19	62	103443	20.095	ug/l 99
5) Bromomethane	2.56	94	60193	20.216	ug/l 98
6) Chloroethane	2.71	64	57751	20.032	ug/l 98
7) Trichlorofluoromethane	3.02	101	135277	20.565	ug/l 96
8) Diethyl Ether	3.41	74	44295	20.972	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	75505	20.998	ug/l 97
10) 1,1-Dichloroethene	3.73	96	65988	19.849	ug/l 96
11) Methyl Iodide	3.94	142	103741	20.620	ug/l 99
12) Methyl Acetate	4.33	43	86598	21.178	ug/l 95
13) Acrolein	3.61	56	32341	90.242	ug/l 95
14) Acrylonitrile	4.99	53	171160	102.166	ug/l 98
15) Acetone	3.82	58	41223	99.438	ug/l 98
16) Carbon Disulfide	4.04	76	214429	19.229	ug/l 98
17) Allyl chloride	4.32	41	163767	20.003	ug/l 95
18) Methylene Chloride	4.54	84	100243	20.399	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	87878	20.306	ug/l 91
20) Diisopropyl ether	5.96	45	337780	20.366	ug/l 99
21) 1,1-Dichloroethane	5.85	63	181972	20.542	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	102984	20.473	ug/l 99
23) tert-Butyl Alcohol	4.82	59	27873	104.342	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	229269	20.538	ug/l # 68
25) Chloroform	7.37	83	175399	20.670	ug/l 99
26) Cyclohexane	7.65	56	165761	20.167	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	133121	21.245	ug/l 99
30) 2-Butanone	6.84	43	218105	104.860	ug/l 99
31) 2,2-Dichloropropane	6.82	77	121528	21.072	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	140292	21.182	ug/l 98
33) Carbon Tetrachloride	7.77	117	116147	20.255	ug/l 97
34) Benzene	8.04	78	386686	20.824	ug/l 99
35) Methacrylonitrile	7.18	41	52323	21.343	ug/l 91
36) 1,2-Dichloroethane	8.13	62	133370	21.015	ug/l 100
37) Trichloroethene	8.84	130	95620	20.199	ug/l 95
38) Methylcyclohexane	9.08	83	149118	20.521	ug/l 100
39) 1,2-Dichloropropane	9.12	63	109464	21.349	ug/l 98
40) Dibromomethane	9.21	93	59170	20.417	ug/l 97

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

41) Bromodichloromethane	9.40	83	123614	20.667	ug/l	99
42) Vinyl Acetate	5.90	43	1084911	103.174	ug/l	100
43) Ethyl Acetate	6.94	43	86812	20.487	ug/l #	79
44) Isopropyl Acetate	8.17	43	147827	20.586	ug/l	100
45) 1,4-Dioxane	9.20	88	16574	416.605	ug/l	94
46) Methyl methacrylate	9.20	41	79211	21.323	ug/l	97
47) n-amyl Acetate	12.07	43	101652	19.219	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	107172	19.512	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	135342	19.960	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	82562	20.975	ug/l	98
51) Ethyl methacrylate	10.43	69	91392	19.477	ug/l	96
52) 1,3-Dichloropropane	10.71	76	143917	20.865	ug/l	99
53) Dibromochloromethane	10.90	129	80047	19.742	ug/l	96
54) 1,2-Dibromoethane	11.00	107	77646	21.012	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	181957	92.757	ug/l	99
56) Bromoform	12.13	173	48603	19.077	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	427763	105.470	ug/l	99
59) 2-Hexanone	10.75	43	271227	105.268	ug/l	100
61) Tetrachloroethene	10.63	164	97624	21.330	ug/l	96
62) Toluene	10.16	91	402730	20.783	ug/l	100
64) Chlorobenzene	11.43	112	242352	20.716	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	85997	20.669	ug/l	98
66) Ethyl Benzene	11.51	91	432107	20.802	ug/l	100
67) m/p-Xylenes	11.62	106	328054	42.487	ug/l	98
68) o-Xylene	11.95	106	163463	21.422	ug/l	98
69) Styrene	11.96	104	241876	20.414	ug/l	99
70) Isopropylbenzene	12.25	105	427227	20.941	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	100964	21.637	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	79814m	20.712	ug/l	
73) Bromobenzene	12.53	156	97183	20.154	ug/l	99
74) n-propylbenzene	12.59	91	479368	20.989	ug/l	100
75) 2-Chlorotoluene	12.67	91	293799	21.329	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	348175	21.109	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	18545	19.092	ug/l	93
78) 4-Chlorotoluene	12.77	91	272537	20.765	ug/l	100
79) tert-butylbenzene	12.99	119	301594	21.133	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	339958	20.981	ug/l	99
81) sec-Butylbenzene	13.17	105	402639	21.114	ug/l	100
82) p-Isopropyltoluene	13.29	119	330658	20.546	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	165925	20.568	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	152012	19.829	ug/l	99
85) n-Butylbenzene	13.61	91	243634	19.005	ug/l	99
86) Hexachloroethane	13.87	117	51466	19.976	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	163916	20.748	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11890	19.172	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	61124	17.305	ug/l	96
90) Hexachlorobutadiene	15.01	225	54420	21.132	ug/l	99
91) Naphthalene	15.13	128	124329	16.811	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	61839	17.506	ug/l	98

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

