

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055885.D
 Acq On : 29 May 2019 18:18
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/30/2019 9:35:29 AM

Quant Time: May 30 09:19:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53399	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	281345	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	250801	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	105963	30.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.20%
60) 4-Bromofluorobenzene	12.40	95	110580	28.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.47%
63) Toluene-d8	10.09	98	350556	30.59	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	43658	18.647	ug/l 100
3) Chloromethane	2.06	50	60290	18.104	ug/l 99
4) Vinyl Chloride	2.19	62	65462	19.260	ug/l 99
5) Bromomethane	2.54	94	43430	21.824	ug/l 100
6) Chloroethane	2.69	64	41511	20.906	ug/l 95
7) Trichlorofluoromethane	3.01	101	87005	20.404	ug/l 98
8) Diethyl Ether	3.40	74	39483	21.063	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	53891	20.002	ug/l 98
10) 1,1-Dichloroethene	3.72	96	54176	19.221	ug/l 98
11) Methyl Iodide	3.94	142	78058	19.413	ug/l 99
12) Methyl Acetate	4.33	43	67455	19.568	ug/l 99
13) Acrolein	3.60	56	39343	82.139	ug/l 97
14) Acrylonitrile	4.99	53	155821	99.147	ug/l 100
15) Acetone	3.82	58	47787	97.906	ug/l 96
16) Carbon Disulfide	4.04	76	133160	16.478	ug/l 100
17) Allyl chloride	4.31	41	92144	18.152	ug/l 95
18) Methylene Chloride	4.55	84	63965	19.815	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	59096	19.490	ug/l 96
20) Diisopropyl ether	5.96	45	188222	19.113	ug/l 96
21) 1,1-Dichloroethane	5.84	63	108296	19.458	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	70391	19.906	ug/l 96
23) tert-Butyl Alcohol	4.82	59	59620	86.379	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	189181	19.781	ug/l 99
25) Chloroform	7.37	83	110845	20.165	ug/l 100
26) Cyclohexane	7.65	56	97574	19.004	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	79695	20.234	ug/l 99
30) 2-Butanone	6.84	43	215074	102.451	ug/l 99
31) 2,2-Dichloropropane	6.82	77	82838	18.074	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	92033	19.714	ug/l 100
33) Carbon Tetrachloride	7.77	117	78484	18.794	ug/l 98
34) Benzene	8.04	78	252809	20.791	ug/l 100
35) Methacrylonitrile	7.17	41	36386	18.779	ug/l 96
36) 1,2-Dichloroethane	8.12	62	83263	20.954	ug/l 99
37) Trichloroethene	8.83	130	68168	20.093	ug/l 99
38) Methylcyclohexane	9.08	83	97878	19.615	ug/l 98
39) 1,2-Dichloropropane	9.12	63	66009	20.193	ug/l 96
40) Dibromomethane	9.21	93	43833	20.766	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	81223	18.775	ug/l	98
42) Vinyl Acetate	5.90	43	799194	98.054	ug/l	100
43) Ethyl Acetate	6.93	43	85190	20.645	ug/l #	100
44) Isopropyl Acetate	8.17	43	135668	19.855	ug/l #	87
45) 1,4-Dioxane	9.20	88	26497	412.193	ug/l	97
46) Methyl methacrylate	9.20	41	61820	19.391	ug/l	98
47) n-amyl Acetate	12.07	43	104579	18.504	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	83303	17.444	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	97863	18.723	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	64895	21.118	ug/l	99
51) Ethyl methacrylate	10.43	69	96917	19.567	ug/l	99
52) 1,3-Dichloropropane	10.71	76	105128	20.755	ug/l	98
53) Dibromochloromethane	10.90	129	64002	17.631	ug/l	99
54) 1,2-Dibromoethane	11.00	107	65660	20.649	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	168147	87.251	ug/l	100
56) Bromoform	12.13	173	45970	15.438	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	419649	101.074	ug/l	99
59) 2-Hexanone	10.75	43	290149	97.751	ug/l	99
61) Tetrachloroethene	10.63	164	69288	20.408	ug/l	95
62) Toluene	10.16	91	276898	20.531	ug/l	100
64) Chlorobenzene	11.43	112	165782	20.264	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	61226	18.574	ug/l	99
66) Ethyl Benzene	11.51	91	295595	20.060	ug/l	100
67) m/p-Xylenes	11.62	106	221822	39.626	ug/l	100
68) o-Xylene	11.95	106	110386	19.927	ug/l	99
69) Styrene	11.96	104	174995	19.148	ug/l	99
70) Isopropylbenzene	12.25	105	292130	20.155	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	89216	20.001	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	73714m	19.201	ug/l	
73) Bromobenzene	12.52	156	72632	18.942	ug/l	99
74) n-propylbenzene	12.59	91	304048	19.451	ug/l	100
75) 2-Chlorotoluene	12.67	91	188391	19.729	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	234149	19.544	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	21028	13.790	ug/l	86
78) 4-Chlorotoluene	12.77	91	171889	18.994	ug/l	100
79) tert-butylbenzene	12.99	119	208772	19.822	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	230430	19.375	ug/l	99
81) sec-Butylbenzene	13.17	105	267254	19.971	ug/l	99
82) p-Isopropyltoluene	13.29	119	232327	18.864	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	109659	18.244	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	100168	17.499	ug/l	98
85) n-Butylbenzene	13.61	91	170833	17.830	ug/l	99
86) Hexachloroethane	13.87	117	39303	16.225	ug/l	87
87) 1,2-Dichlorobenzene	13.65	146	113906	18.819	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14070	16.643	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	46283	14.166	ug/l	98
90) Hexachlorobutadiene	15.01	225	41685	17.100	ug/l	97
91) Naphthalene	15.13	128	136234	15.261	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	52578	15.398	ug/l	94

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

