

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055781.D
 Acq On : 24 May 2019 8:56
 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
 5/28/2019 10:34:59 AM

Quant Time: May 24 13:02:58 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	56392	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	311263	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	271638	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	108402	29.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.03%
60) 4-Bromofluorobenzene	12.40	95	124727	29.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.40%
63) Toluene-d8	10.09	98	370316	29.83	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	49028	19.829	ug/l 97
3) Chloromethane	2.06	50	65787	18.706	ug/l 95
4) Vinyl Chloride	2.19	62	71076	19.802	ug/l 99
5) Bromomethane	2.52	94	45474	21.638	ug/l 97
6) Chloroethane	2.68	64	43818	20.897	ug/l 96
7) Trichlorofluoromethane	3.00	101	97029	21.547	ug/l 97
8) Diethyl Ether	3.40	74	41920	21.176	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.74	101	62170	21.850	ug/l 98
10) 1,1-Dichloroethene	3.72	96	61835	20.774	ug/l 94
11) Methyl Iodide	3.94	142	86855	20.455	ug/l 99
12) Methyl Acetate	4.32	43	66341	18.224	ug/l 100
13) Acrolein	3.60	56	47147	93.208	ug/l 99
14) Acrylonitrile	4.99	53	154185	92.899	ug/l 99
15) Acetone	3.82	58	63791	123.758	ug/l 96
16) Carbon Disulfide	4.04	76	166828	19.548	ug/l 100
17) Allyl chloride	4.31	41	100849	18.812	ug/l 98
18) Methylene Chloride	4.54	84	69231	20.308	ug/l 95
19) trans-1,2-Dichloroethene	5.03	96	65010	20.303	ug/l 97
20) Diisopropyl ether	5.95	45	195978	18.845	ug/l 97
21) 1,1-Dichloroethane	5.84	63	114919	19.552	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	76326	20.439	ug/l 96
23) tert-Butyl Alcohol	4.81	59	64312	88.231	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	198727	19.676	ug/l # 75
25) Chloroform	7.37	83	118678	20.444	ug/l 99
26) Cyclohexane	7.64	56	108936	20.091	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	87566	20.096	ug/l 97
30) 2-Butanone	6.84	43	232181	99.970	ug/l 98
31) 2,2-Dichloropropane	6.82	77	102232	20.161	ug/l 99
32) 1,1,1-Trichloroethane	7.56	97	104555	20.244	ug/l 99
33) Carbon Tetrachloride	7.77	117	91697	19.847	ug/l 97
34) Benzene	8.04	78	269120	20.005	ug/l 98
35) Methacrylonitrile	7.17	41	35141	16.393	ug/l 99
36) 1,2-Dichloroethane	8.12	62	88428	20.114	ug/l 100
37) Trichloroethene	8.83	130	78749	20.980	ug/l 100
38) Methylcyclohexane	9.08	83	113287	20.520	ug/l 97
39) 1,2-Dichloropropane	9.12	63	70050	19.370	ug/l 96
40) Dibromomethane	9.21	93	46545	19.931	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	91852	19.191	ug/l	98
42) Vinyl Acetate	5.89	43	835969	92.707	ug/l	98
43) Ethyl Acetate	6.93	43	84938	18.606	ug/l #	100
44) Isopropyl Acetate	8.17	43	134730	17.822	ug/l	90
45) 1,4-Dioxane	9.20	88	28957	407.164	ug/l	93
46) Methyl methacrylate	9.20	41	64161	18.191	ug/l	98
47) n-amyl Acetate	12.07	43	114143	18.255	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	98039	18.556	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	110752	19.152	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	67784	19.938	ug/l	99
51) Ethyl methacrylate	10.43	69	103112	18.817	ug/l	100
52) 1,3-Dichloropropane	10.71	76	109919	19.615	ug/l	100
53) Dibromochloromethane	10.90	129	77435	19.281	ug/l	98
54) 1,2-Dibromoethane	11.00	107	70764	20.115	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	195114	91.513	ug/l	99
56) Bromoform	12.13	173	59410	18.034	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	418093	92.975	ug/l	98
59) 2-Hexanone	10.75	43	305588	95.055	ug/l	99
61) Tetrachloroethene	10.63	164	80770	21.965	ug/l	96
62) Toluene	10.15	91	298332	20.423	ug/l	99
64) Chlorobenzene	11.43	112	184336	20.803	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	71202	19.943	ug/l	98
66) Ethyl Benzene	11.51	91	330586	20.713	ug/l	100
67) m/p-Xylenes	11.62	106	256600	42.322	ug/l	99
68) o-Xylene	11.95	106	123717	20.620	ug/l	99
69) Styrene	11.96	104	203079	20.516	ug/l	99
70) Isopropylbenzene	12.25	105	327544	20.865	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	94071	19.472	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	81811m	19.676	ug/l	
73) Bromobenzene	12.52	156	86682	20.872	ug/l	95
74) n-propylbenzene	12.59	91	353931	20.905	ug/l	99
75) 2-Chlorotoluene	12.67	91	217658	21.046	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	278015	21.426	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	28196	17.072	ug/l	95
78) 4-Chlorotoluene	12.77	91	203368	20.749	ug/l	99
79) tert-butylbenzene	12.99	119	246151	21.578	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	273544	21.236	ug/l	100
81) sec-Butylbenzene	13.17	105	311763	21.510	ug/l	100
82) p-Isopropyltoluene	13.29	119	286317	21.465	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	138912	21.338	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	129258	20.848	ug/l	100
85) n-Butylbenzene	13.61	91	215774	20.793	ug/l	99
86) Hexachloroethane	13.87	117	51084	19.471	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	138571	21.138	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16350	17.856	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	67295	19.018	ug/l	100
90) Hexachlorobutadiene	15.01	225	58030	21.979	ug/l	97
91) Naphthalene	15.13	128	179668	18.583	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	72035	19.478	ug/l	99

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

