

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056900.D
 Acq On : 24 Jul 2019 1:55
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:20:34 PM

Quant Time: Jul 24 04:18:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 03:39:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59166	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	313841	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	274517	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	115734	29.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.63%
60) 4-Bromofluorobenzene	12.40	95	119971	29.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.20%
63) Toluene-d8	10.09	98	394737	30.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	71706	20.271	ug/l 96
3) Chloromethane	2.06	50	89732	20.787	ug/l 99
4) Vinyl Chloride	2.19	62	84273	20.249	ug/l 99
5) Bromomethane	2.56	94	52807	20.666	ug/l 95
6) Chloroethane	2.71	64	46539	20.160	ug/l 99
7) Trichlorofluoromethane	3.02	101	101464	20.020	ug/l 98
8) Diethyl Ether	3.41	74	37580	19.899	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	63480	19.944	ug/l 98
10) 1,1-Dichloroethene	3.73	96	63682	20.161	ug/l 97
11) Methyl Iodide	3.95	142	92378	19.768	ug/l 98
12) Methyl Acetate	4.33	43	67083	17.354	ug/l 96
13) Acrolein	3.60	56	41143	94.042	ug/l 97
14) Acrylonitrile	4.99	53	145133	97.351	ug/l 92
15) Acetone	3.82	58	38287	99.336	ug/l 92
16) Carbon Disulfide	4.04	76	166436	19.541	ug/l 98
17) Allyl chloride	4.32	41	101041	19.116	ug/l 99
18) Methylene Chloride	4.55	84	74169	20.175	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	67145	20.086	ug/l 97
20) Diisopropyl ether	5.96	45	218894	20.397	ug/l 96
21) 1,1-Dichloroethane	5.85	63	126068	20.214	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	78382	20.231	ug/l 97
23) tert-Butyl Alcohol	4.81	59	53679	107.895	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	186099	19.487	ug/l 98
25) Chloroform	7.37	83	120515	19.808	ug/l 100
26) Cyclohexane	7.65	56	112972	19.719	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	91334	20.507	ug/l 98
30) 2-Butanone	6.84	43	175109	97.863	ug/l 100
31) 2,2-Dichloropropane	6.82	77	69724	16.870	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	99629	20.359	ug/l 100
33) Carbon Tetrachloride	7.77	117	83880	19.639	ug/l 96
34) Benzene	8.04	78	285818	20.367	ug/l 98
35) Methacrylonitrile	7.17	41	29066	16.266	ug/l 98
36) 1,2-Dichloroethane	8.12	62	90105	20.654	ug/l 100
37) Trichloroethene	8.83	130	75595	20.093	ug/l 99
38) Methylcyclohexane	9.08	83	110393	19.485	ug/l 98
39) 1,2-Dichloropropane	9.12	63	75738	20.219	ug/l 100
40) Dibromomethane	9.21	93	46502	20.237	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	87183	19.744	ug/l	99
42) Vinyl Acetate	5.90	43	785332	98.555	ug/l	100
43) Ethyl Acetate	6.93	43	73757	20.107	ug/l	98
44) Isopropyl Acetate	8.17	43	119984	19.623	ug/l #	87
45) 1,4-Dioxane	9.20	88	23695	407.068	ug/l	97
46) Methyl methacrylate	9.20	41	59487	19.502	ug/l	97
47) n-amyl Acetate	12.07	43	92095	18.815	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	85493	18.606	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	101923	19.035	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	68204	20.673	ug/l	98
51) Ethyl methacrylate	10.43	69	91882	19.254	ug/l	98
52) 1,3-Dichloropropane	10.71	76	111743	20.069	ug/l	100
53) Dibromochloromethane	10.90	129	66291	19.330	ug/l	99
54) 1,2-Dibromoethane	11.00	107	68118	20.238	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	191209	92.518	ug/l	98
56) Bromoform	12.13	173	44970	18.953	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	367211	99.680	ug/l	99
59) 2-Hexanone	10.75	43	248227	98.884	ug/l	100
61) Tetrachloroethene	10.63	164	79233	20.594	ug/l	99
62) Toluene	10.15	91	302997	20.294	ug/l	100
64) Chlorobenzene	11.43	112	181104	20.138	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	67990	19.960	ug/l	98
66) Ethyl Benzene	11.51	91	313599	19.933	ug/l	99
67) m/p-Xylenes	11.62	106	236670	40.340	ug/l	100
68) o-Xylene	11.95	106	116592	20.213	ug/l	99
69) Styrene	11.96	104	184724	19.762	ug/l	100
70) Isopropylbenzene	12.25	105	306973	20.212	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	85842	20.179	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	77434m	20.689	ug/l	
73) Bromobenzene	12.52	156	77117	19.677	ug/l	99
74) n-propylbenzene	12.59	91	328591	19.787	ug/l	100
75) 2-Chlorotoluene	12.67	91	205493	20.410	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	260157	20.347	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	19757	16.812	ug/l	95
78) 4-Chlorotoluene	12.77	91	186308	19.467	ug/l	100
79) tert-butylbenzene	12.99	119	221880	20.110	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	251519	20.179	ug/l	100
81) sec-Butylbenzene	13.17	105	285281	19.804	ug/l	100
82) p-Isopropyltoluene	13.29	119	254491	19.671	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	117764	19.084	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	109341	18.741	ug/l	98
85) n-Butylbenzene	13.61	91	185000	18.211	ug/l	99
86) Hexachloroethane	13.87	117	42141	19.464	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	123478	20.146	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12067	18.336	ug/l	92
89) 1,2,4-Trichlorobenzene	14.90	180	48740	19.564	ug/l	99
90) Hexachlorobutadiene	15.00	225	44869	19.916	ug/l	98
91) Naphthalene	15.13	128	122012	18.937	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	57220	17.659	ug/l	99

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

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