

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101219\
 Data File : VN058687.D
 Acq On : 11 Oct 2019 8:43
 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
 10/14/2019 4:59:16 PM

Quant Time: Oct 11 17:31:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	60493	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	328894	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	307446	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	154595	30.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.37%
60) 4-Bromofluorobenzene	12.40	95	158925	29.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.50%
63) Toluene-d8	10.08	98	429788	29.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	71525	21.822 ug/l	98
3) Chloromethane	2.04	50	90784	20.736 ug/l	100
4) Vinyl Chloride	2.17	62	90010	19.892 ug/l	96
5) Bromomethane	2.55	94	56169	20.105 ug/l	98
6) Chloroethane	2.69	64	58423	20.541 ug/l	97
7) Trichlorofluoromethane	3.00	101	118709	21.314 ug/l	98
8) Diethyl Ether	3.39	74	42677	20.091 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	66517	20.641 ug/l	98
10) 1,1-Dichloroethene	3.72	96	61698	19.493 ug/l	99
11) Methyl Iodide	3.93	142	85809	19.467 ug/l	99
12) Methyl Acetate	4.30	43	101340	20.012 ug/l	99
13) Acrolein	3.58	56	46315	82.776 ug/l	94
14) Acrylonitrile	4.96	53	197884	99.174 ug/l	100
15) Acetone	3.79	58	60224	101.680 ug/l	88
16) Carbon Disulfide	4.03	76	182861	19.808 ug/l	96
17) Allyl chloride	4.30	41	111172	17.647 ug/l	99
18) Methylene Chloride	4.53	84	77297	20.168 ug/l	97
19) trans-1,2-Dichloroethene	5.01	96	69428	20.149 ug/l	93
20) Diisopropyl ether	5.93	45	258421	20.134 ug/l	97
21) 1,1-Dichloroethane	5.82	63	145509	20.473 ug/l	98
22) cis-1,2-Dichloroethene	6.81	96	80411	19.573 ug/l	94
23) tert-Butyl Alcohol	4.75	59	77401	94.838 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	236182	20.002 ug/l	100
25) Chloroform	7.35	83	147125	20.755 ug/l	97
26) Cyclohexane	7.63	56	123799	19.845 ug/l	# 94
29) 1,1-Dichloropropene	7.77	75	107142	20.695 ug/l	100
30) 2-Butanone	6.81	43	305910	104.561 ug/l	100
31) 2,2-Dichloropropane	6.80	77	129911	21.289 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	124915	20.861 ug/l	99
33) Carbon Tetrachloride	7.76	117	106814	20.608 ug/l	96
34) Benzene	8.02	78	315872	20.724 ug/l	98
35) Methacrylonitrile	7.15	41	46657	18.053 ug/l	87
36) 1,2-Dichloroethane	8.10	62	122679	21.052 ug/l	100
37) Trichloroethene	8.82	130	76738	20.494 ug/l	98
38) Methylcyclohexane	9.07	83	118858	19.801 ug/l	99
39) 1,2-Dichloropropane	9.10	63	85861	20.613 ug/l	95
40) Dibromomethane	9.20	93	54525	20.736 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	110978	20.659	ug/l	98
42) Vinyl Acetate	5.87	43	1086437	106.032	ug/l	99
43) Ethyl Acetate	6.90	43	104897	18.267	ug/l	94
44) Isopropyl Acetate	8.15	43	187648	20.174	ug/l	100
45) 1,4-Dioxane	9.19	88	27649	387.113	ug/l	98
46) Methyl methacrylate	9.19	41	83753	19.614	ug/l	98
47) n-amyl Acetate	12.07	43	160015	19.406	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	124892	20.046	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	133045	20.336	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	78221	20.838	ug/l	97
51) Ethyl methacrylate	10.43	69	115653	19.268	ug/l	97
52) 1,3-Dichloropropane	10.70	76	137234	20.528	ug/l	98
53) Dibromochloromethane	10.90	129	81140	20.141	ug/l	99
54) 1,2-Dibromoethane	11.00	107	80169	20.604	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	336338	112.647	ug/l	99
56) Bromoform	12.13	173	55051	19.617	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	580838	103.561	ug/l	100
59) 2-Hexanone	10.75	43	472227	107.398	ug/l	99
61) Tetrachloroethene	10.63	164	69287	20.855	ug/l	97
62) Toluene	10.15	91	334536	20.229	ug/l	99
64) Chlorobenzene	11.43	112	203799	20.156	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	75708	19.969	ug/l	100
66) Ethyl Benzene	11.51	91	371732	20.300	ug/l	100
67) m/p-Xylenes	11.62	106	272159	39.781	ug/l	99
68) o-Xylene	11.95	106	127901	19.284	ug/l	98
69) Styrene	11.97	104	210565	19.217	ug/l	99
70) Isopropylbenzene	12.25	105	355384	19.847	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	120542	19.996	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	107405m	19.663	ug/l	
73) Bromobenzene	12.53	156	85211	19.592	ug/l	98
74) n-propylbenzene	12.59	91	435475	20.777	ug/l	100
75) 2-Chlorotoluene	12.68	91	254342	20.169	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	309121	20.156	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	39508	18.986	ug/l	99
78) 4-Chlorotoluene	12.78	91	259487	19.965	ug/l	99
79) tert-butylbenzene	13.00	119	260686	19.895	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	306207	20.093	ug/l	99
81) sec-Butylbenzene	13.18	105	353851	20.067	ug/l	99
82) p-Isopropyltoluene	13.29	119	310192	19.589	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	154828	19.673	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	149077	18.964	ug/l	98
85) n-Butylbenzene	13.62	91	285364	19.684	ug/l	100
86) Hexachloroethane	13.88	117	55537	19.272	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	152938	19.684	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	25654	19.120	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	92091	18.771	ug/l	99
90) Hexachlorobutadiene	15.02	225	49944	19.715	ug/l	98
91) Naphthalene	15.13	128	267470	18.466	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	88299	18.490	ug/l	99

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

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