

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090919\
 Data File : VN057788.D
 Acq On : 9 Sep 2019 9:35
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 9/13/2019 11:04:32 AM

Quant Time: Sep 09 12:05:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 11:48:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	67099	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	411024	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	364707	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	186547	31.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.77%
60) 4-Bromofluorobenzene	12.40	95	181759	29.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.07%
63) Toluene-d8	10.08	98	533708	30.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.63%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.84	85	79785	19.680	ug/l 100
3) Chloromethane	2.03	50	100231	19.828	ug/l 100
4) Vinyl Chloride	2.16	62	104711	20.246	ug/l 100
5) Bromomethane	2.54	94	67151	20.708	ug/l 100
6) Chloroethane	2.68	64	65600	20.409	ug/l 100
7) Trichlorofluoromethane	2.99	101	134803	22.560	ug/l 100
8) Diethyl Ether	3.39	74	47683	19.781	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	74225	19.893	ug/l 100
10) 1,1-Dichloroethene	3.71	96	69173	19.496	ug/l 100
11) Methyl Iodide	3.93	142	92040	19.389	ug/l 100
12) Methyl Acetate	4.30	43	97588	20.015	ug/l 100
13) Acrolein	3.59	56	23613	89.382	ug/l 100
14) Acrylonitrile	4.96	53	196183	98.837	ug/l 100
15) Acetone	3.80	58	60190	106.812	ug/l 100
16) Carbon Disulfide	4.03	76	154179	18.661	ug/l 100
17) Allyl chloride	4.30	41	123815	19.045	ug/l 100
18) Methylene Chloride	4.53	84	87047	19.469	ug/l 100
19) trans-1,2-Dichloroethene	5.02	96	77087	19.494	ug/l 100
20) Diisopropyl ether	5.93	45	294768	19.394	ug/l 100
21) 1,1-Dichloroethane	5.83	63	166670	19.887	ug/l 100
22) cis-1,2-Dichloroethene	6.81	96	94798	19.566	ug/l 100
23) tert-Butyl Alcohol	4.77	59	65764	101.489	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	267492	19.672	ug/l # 100
25) Chloroform	7.36	83	166830	19.553	ug/l 100
26) Cyclohexane	7.64	56	135874	19.296	ug/l 100
29) 1,1-Dichloropropene	7.78	75	121470	18.786	ug/l 100
30) 2-Butanone	6.82	43	282174	96.785	ug/l 100
31) 2,2-Dichloropropane	6.81	77	124006	18.165	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	136769	18.813	ug/l 100
33) Carbon Tetrachloride	7.76	117	107062	18.053	ug/l 100
34) Benzene	8.03	78	362909	18.942	ug/l 100
35) Methacrylonitrile	7.16	41	47047m	17.712	ug/l 100
36) 1,2-Dichloroethane	8.11	62	140696	18.924	ug/l 100
37) Trichloroethene	8.83	130	87196	18.738	ug/l 100
38) Methylcyclohexane	9.07	83	136333	18.517	ug/l 100
39) 1,2-Dichloropropane	9.11	63	100912	18.755	ug/l 100
40) Dibromomethane	9.20	93	62181	19.001	ug/l 100

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

41) Bromodichloromethane	9.40	83	119329	18.087	ug/l	100
42) Vinyl Acetate	5.87	43	1176963	100.388	ug/l	100
43) Ethyl Acetate	6.91	43	114804	19.090	ug/l	100
44) Isopropyl Acetate	8.15	43	188694	18.120	ug/l #	92
45) 1,4-Dioxane	9.19	88	30103	369.382	ug/l	100
46) Methyl methacrylate	9.19	41	91736	18.108	ug/l	100
47) n-amyl Acetate	12.07	43	168276	17.672	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	121948	17.362	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	139984	17.763	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	89572	18.870	ug/l	100
51) Ethyl methacrylate	10.43	69	132157	17.956	ug/l	100
52) 1,3-Dichloropropane	10.71	76	155956	18.787	ug/l	100
53) Dibromochloromethane	10.90	129	79664	16.994	ug/l	100
54) 1,2-Dibromoethane	11.00	107	86576	18.331	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	342604	97.961	ug/l	100
56) Bromoform	12.13	173	47430	16.332	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	582716	103.030	ug/l	100
59) 2-Hexanone	10.75	43	422276	99.494	ug/l	100
61) Tetrachloroethene	10.63	164	70707	19.068	ug/l	100
62) Toluene	10.15	91	394752	19.548	ug/l	100
64) Chlorobenzene	11.43	112	239993	19.158	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	79360	18.245	ug/l	100
66) Ethyl Benzene	11.51	91	435180	19.751	ug/l	100
67) m/p-Xylenes	11.62	106	318155	41.807	ug/l	100
68) o-Xylene	11.95	106	152593	18.516	ug/l	100
69) Styrene	11.97	104	260700	18.554	ug/l	100
70) Isopropylbenzene	12.25	105	430170	19.744	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	128501	18.872	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	113155m	18.990	ug/l	
73) Bromobenzene	12.53	156	94372	18.093	ug/l	100
74) n-propylbenzene	12.59	91	497796	19.998	ug/l	100
75) 2-Chlorotoluene	12.68	91	289925	18.700	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	357465	19.268	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	27735	15.469	ug/l	100
78) 4-Chlorotoluene	12.78	91	289813	18.325	ug/l	100
79) tert-butylbenzene	13.00	119	308790	19.079	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	356567	19.289	ug/l	100
81) sec-Butylbenzene	13.17	105	412680	19.217	ug/l	100
82) p-Isopropyltoluene	13.29	119	370828	19.282	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	176974	18.254	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	171091	17.924	ug/l	100
85) n-Butylbenzene	13.62	91	340587	19.003	ug/l	100
86) Hexachloroethane	13.88	117	50540	16.499	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	170997	18.169	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.28	75	20958	17.481	ug/l	100
89) 1,2,4-Trichlorobenzene	14.92	180	100860	17.544	ug/l	100
90) Hexachlorobutadiene	15.01	225	49252	18.654	ug/l	100
91) Naphthalene	15.13	128	289120	18.278	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	98568	17.978	ug/l	100

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

