

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011019\
 Data File : VN053331.D
 Acq On : 10 Jan 2019 9:03
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 1/11/2019 10:11:29 AM

Quant Time: Jan 11 05:56:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	163491	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	956024	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	863164	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	311099	29.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.83%
60) 4-Bromofluorobenzene	12.40	95	409360	30.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.30%
63) Toluene-d8	10.09	98	1154231	29.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	222425	20.419 ug/l	100
3) Chloromethane	2.06	50	256955	20.098 ug/l	99
4) Vinyl Chloride	2.19	62	239783	19.059 ug/l	96
5) Bromomethane	2.57	94	160186	19.748 ug/l	97
6) Chloroethane	2.71	64	144372	19.921 ug/l	98
7) Trichlorofluoromethane	3.02	101	310425	19.980 ug/l	99
8) Diethyl Ether	3.41	74	116863	20.246 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	200136	20.502 ug/l	96
10) 1,1-Dichloroethene	3.74	96	184688	19.388 ug/l	93
11) Methyl Iodide	3.96	142	285548	20.468 ug/l	99
12) Methyl Acetate	4.33	43	158625	21.364 ug/l	98
13) Acrolein	3.61	56	78424	88.466 ug/l	99
14) Acrylonitrile	4.99	53	348684	104.972 ug/l	98
15) Acetone	3.81	58	96404	136.560 ug/l	92
16) Carbon Disulfide	4.06	76	544055	18.565 ug/l	100
17) Allyl chloride	4.33	41	280389	18.710 ug/l	97
18) Methylene Chloride	4.55	84	214617	19.685 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	194886	19.358 ug/l	96
20) Diisopropyl ether	5.95	45	640394	19.954 ug/l	98
21) 1,1-Dichloroethane	5.85	63	368488	19.719 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	223571	19.714 ug/l	97
23) tert-Butyl Alcohol	4.77	59	56301	100.546 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	499177	20.095 ug/l	97
25) Chloroform	7.37	83	358958	19.984 ug/l	100
26) Cyclohexane	7.66	56	344882	19.788 ug/l	# 97
29) 1,1-Dichloropropene	7.79	75	282986	19.541 ug/l	99
30) 2-Butanone	6.83	43	413442	114.435 ug/l	98
31) 2,2-Dichloropropane	6.82	77	278425	19.860 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	300605	19.812 ug/l	97
33) Carbon Tetrachloride	7.77	117	265473	19.989 ug/l	98
34) Benzene	8.04	78	859978	19.760 ug/l	97
35) Methacrylonitrile	7.17	41	84070	18.033 ug/l	98
36) 1,2-Dichloroethane	8.12	62	254829	20.170 ug/l	98
37) Trichloroethene	8.83	130	237003	20.102 ug/l	94
38) Methylcyclohexane	9.08	83	358210	21.148 ug/l	97
39) 1,2-Dichloropropane	9.12	63	227478	20.017 ug/l	97
40) Dibromomethane	9.21	93	129299	20.118 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	271809	19.693	ug/l	99
42) Vinyl Acetate	5.90	43	2006525	101.799	ug/l	97
43) Ethyl Acetate	6.93	43	164841	20.430	ug/l #	67
44) Isopropyl Acetate	8.16	43	313985	20.891	ug/l #	78
45) 1,4-Dioxane	9.20	88	35398	385.149	ug/l	93
46) Methyl methacrylate	9.20	41	151063	19.895	ug/l	94
47) n-amyl Acetate	12.07	43	273705	20.737	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	278059	19.738	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	329001	19.834	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	189423	20.556	ug/l	99
51) Ethyl methacrylate	10.43	69	246660	20.538	ug/l	91
52) 1,3-Dichloropropane	10.71	76	324066	20.414	ug/l	99
53) Dibromochloromethane	10.90	129	210118	20.302	ug/l	98
54) 1,2-Dibromoethane	11.01	107	188655	20.294	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	586411	85.080	ug/l	98
56) Bromoform	12.13	173	145459	20.545	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	880365	107.034	ug/l	97
59) 2-Hexanone	10.75	43	640341	112.770	ug/l	98
61) Tetrachloroethene	10.63	164	264167	20.710	ug/l	97
62) Toluene	10.16	91	935212	19.756	ug/l	99
64) Chlorobenzene	11.43	112	594797	20.023	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	206816	19.847	ug/l	98
66) Ethyl Benzene	11.51	91	1026927	20.004	ug/l	99
67) m/p-Xylenes	11.62	106	794608	40.927	ug/l	98
68) o-Xylene	11.95	106	379288	20.160	ug/l	99
69) Styrene	11.96	104	623486	20.302	ug/l	99
70) Isopropylbenzene	12.25	105	1026532	20.738	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	214528	20.587	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	187843m	20.585	ug/l	
73) Bromobenzene	12.53	156	266535	20.947	ug/l	92
74) n-propylbenzene	12.59	91	1189989	21.236	ug/l	98
75) 2-Chlorotoluene	12.67	91	696591	20.991	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	845388	21.529	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	64697	20.178	ug/l	97
78) 4-Chlorotoluene	12.77	91	711427	21.060	ug/l	99
79) tert-butylbenzene	12.99	119	742470	21.681	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	852598	21.664	ug/l	99
81) sec-Butylbenzene	13.17	105	1025250	22.608	ug/l	100
82) p-Isopropyltoluene	13.29	119	891925	22.761	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	466516	21.533	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	456871	21.633	ug/l	98
85) n-Butylbenzene	13.62	91	745276	23.387	ug/l	99
86) Hexachloroethane	13.88	117	133435	21.328	ug/l	92
87) 1,2-Dichlorobenzene	13.65	146	436404	21.678	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28204	18.926	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	170596	17.460	ug/l	99
90) Hexachlorobutadiene	15.01	225	145999	24.685	ug/l	99
91) Naphthalene	15.13	128	268510	12.952	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	115948	13.301	ug/l	98

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

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