

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058009.D
 Acq On : 13 Sep 2019 11:40
 Operator : JC/SP
 Sample : VN0914WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 2:46:45 PM

Quant Time: Sep 14 01:59:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	73458	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	437721	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	386609	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	199332	30.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.27%
60) 4-Bromofluorobenzene	12.40	95	195825	29.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.67%
63) Toluene-d8	10.09	98	555395	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	90313	20.349 ug/l	95
3) Chloromethane	2.04	50	103631	18.726 ug/l	100
4) Vinyl Chloride	2.17	62	101381	17.905 ug/l	97
5) Bromomethane	2.55	94	57467	16.263 ug/l	92
6) Chloroethane	2.69	64	64041	18.199 ug/l	90
7) Trichlorofluoromethane	3.00	101	120434	18.411 ug/l	99
8) Diethyl Ether	3.39	74	53955	20.446 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	82609	20.224 ug/l	98
10) 1,1-Dichloroethene	3.72	96	75314	19.390 ug/l	97
11) Methyl Iodide	3.93	142	87186	16.777 ug/l	98
12) Methyl Acetate	4.30	43	112228	21.054 ug/l	95
13) Acrolein	3.59	56	4114m	14.225 ug/l	
14) Acrylonitrile	4.96	53	229789	105.747 ug/l #	92
15) Acetone	3.79	58	61498	99.686 ug/l	98
16) Carbon Disulfide	4.03	76	151385	16.737 ug/l	100
17) Allyl chloride	4.30	41	140852	19.790 ug/l	91
18) Methylene Chloride	4.53	84	98653	20.155 ug/l	96
19) trans-1,2-Dichloroethene	5.01	96	85496	19.749 ug/l	97
20) Diisopropyl ether	5.93	45	329909	19.827 ug/l	99
21) 1,1-Dichloroethane	5.83	63	187838	20.473 ug/l	100
22) cis-1,2-Dichloroethene	6.81	96	107687	20.302 ug/l	99
23) tert-Butyl Alcohol	4.76	59	73968	104.268 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	298089	20.022 ug/l #	100
25) Chloroform	7.36	83	189954	20.336 ug/l	99
26) Cyclohexane	7.64	56	150819	19.564 ug/l #	98
29) 1,1-Dichloropropene	7.78	75	133482	19.385 ug/l	99
30) 2-Butanone	6.81	43	322475	103.862 ug/l	99
31) 2,2-Dichloropropane	6.81	77	140974	19.391 ug/l	99
32) 1,1,1-Trichloroethane	7.56	97	153172	19.784 ug/l	99
33) Carbon Tetrachloride	7.76	117	119885	18.982 ug/l	95
34) Benzene	8.03	78	409418	20.066 ug/l	99
35) Methacrylonitrile	7.17	41	65801m	22.849 ug/l	
36) 1,2-Dichloroethane	8.11	62	161078	20.344 ug/l	99
37) Trichloroethene	8.83	130	98034	19.783 ug/l	96
38) Methylcyclohexane	9.07	83	150101	19.143 ug/l	98
39) 1,2-Dichloropropane	9.11	63	116749	20.375 ug/l	97
40) Dibromomethane	9.20	93	72646	20.845 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	135621	19.302	ug/l	99
42) Vinyl Acetate	5.87	43	1304399	104.530	ug/l	100
43) Ethyl Acetate	6.91	43	135746	21.429	ug/l #	85
44) Isopropyl Acetate	8.15	43	235825	21.352	ug/l #	93
45) 1,4-Dioxane	9.19	88	35254	406.204	ug/l	97
46) Methyl methacrylate	9.19	41	110848	20.546	ug/l	97
47) n-amyl Acetate	12.07	43	186110	18.343	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	135985	18.180	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	155550	18.534	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	101939	20.165	ug/l	99
51) Ethyl methacrylate	10.43	69	147428	18.809	ug/l	97
52) 1,3-Dichloropropane	10.71	76	179266	20.278	ug/l	99
53) Dibromochloromethane	10.90	129	87603	17.547	ug/l	100
54) 1,2-Dibromoethane	11.00	107	97179	19.321	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	335650	90.119	ug/l	99
56) Bromoform	12.13	173	50813	16.430	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	672457	112.161	ug/l	100
59) 2-Hexanone	10.75	43	474115	105.379	ug/l	100
61) Tetrachloroethene	10.63	164	80380	20.449	ug/l	98
62) Toluene	10.15	91	440154	20.561	ug/l	98
64) Chlorobenzene	11.43	112	264906	19.948	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	89186	19.343	ug/l	99
66) Ethyl Benzene	11.51	91	482262	20.642	ug/l	100
67) m/p-Xylenes	11.62	106	352053	39.480	ug/l	98
68) o-Xylene	11.95	106	174622	19.989	ug/l	96
69) Styrene	11.97	104	287356	19.293	ug/l	99
70) Isopropylbenzene	12.25	105	469650	20.335	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	149468	20.708	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	123827m	19.328	ug/l	
73) Bromobenzene	12.53	156	108162	19.562	ug/l	98
74) n-propylbenzene	12.60	91	554449	21.012	ug/l	99
75) 2-Chlorotoluene	12.68	91	322513	19.623	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	397037	20.188	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	28520	15.006	ug/l	98
78) 4-Chlorotoluene	12.78	91	329425	19.650	ug/l	98
79) tert-butylbenzene	13.00	119	339406	19.782	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	396809	20.250	ug/l	100
81) sec-Butylbenzene	13.18	105	461499	20.273	ug/l	100
82) p-Isopropyltoluene	13.29	119	398968	19.570	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	195973	19.068	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	193224	19.096	ug/l	98
85) n-Butylbenzene	13.62	91	359187	18.905	ug/l	98
86) Hexachloroethane	13.88	117	54293	16.720	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	196646	19.711	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	23875	18.786	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	110631	18.153	ug/l	99
90) Hexachlorobutadiene	15.02	225	51748	18.489	ug/l	97
91) Naphthalene	15.13	128	311148	18.556	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	109484	18.838	ug/l	98

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

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