

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080619\
 Data File : VN057105.D
 Acq On : 6 Aug 2019 16:03
 Operator : JC/SP
 Sample : VN0806WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0806WBS02

Manual Integrations
 APPROVED

MMdadoda
 8/9/2019 12:51:38 AM

Quant Time: Aug 07 04:26:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	76446	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	414785	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	355229	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	149645	29.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.70%
60) 4-Bromofluorobenzene	12.40	95	148358	27.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.90%
63) Toluene-d8	10.08	98	500294	29.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	100166	21.915	ug/l 94
3) Chloromethane	2.05	50	110666	19.842	ug/l 99
4) Vinyl Chloride	2.18	62	104460	19.426	ug/l 99
5) Bromomethane	2.54	94	66500	20.142	ug/l 94
6) Chloroethane	2.69	64	55301	18.540	ug/l 100
7) Trichlorofluoromethane	3.00	101	147973	22.597	ug/l 98
8) Diethyl Ether	3.40	74	53749	22.028	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	90054	21.898	ug/l 96
10) 1,1-Dichloroethene	3.72	96	85280	20.896	ug/l 98
11) Methyl Iodide	3.94	142	111738	18.506	ug/l 99
12) Methyl Acetate	4.31	43	92185	18.457	ug/l 93
13) Acrolein	3.59	56	62638	110.811	ug/l 98
14) Acrylonitrile	4.97	53	191613	99.475	ug/l 100
15) Acetone	3.81	58	64365	129.248	ug/l 99
16) Carbon Disulfide	4.04	76	214900	19.528	ug/l 100
17) Allyl chloride	4.31	41	129483	18.960	ug/l 99
18) Methylene Chloride	4.54	84	98249	20.684	ug/l 97
19) trans-1,2-Dichloroethene	5.03	96	88952	20.595	ug/l 97
20) Diisopropyl ether	5.94	45	276711	19.956	ug/l 99
21) 1,1-Dichloroethane	5.83	63	164205	20.377	ug/l 97
22) cis-1,2-Dichloroethene	6.81	96	101578	20.292	ug/l 99
23) tert-Butyl Alcohol	4.77	59	61785	96.116	ug/l # 100
24) Methyl tert-Butyl Ether	5.03	73	255511	20.708	ug/l 98
25) Chloroform	7.36	83	167829	21.349	ug/l 96
26) Cyclohexane	7.64	56	149909	20.251	ug/l # 98
29) 1,1-Dichloropropene	7.78	75	121694	20.674	ug/l 99
30) 2-Butanone	6.82	43	253084	107.020	ug/l 99
31) 2,2-Dichloropropane	6.81	77	127931	23.421	ug/l 98
32) 1,1,1-Trichloroethane	7.56	97	138450	21.407	ug/l 99
33) Carbon Tetrachloride	7.76	117	118774	21.041	ug/l 97
34) Benzene	8.03	78	379851	20.481	ug/l 98
35) Methacrylonitrile	7.16	41	44550	18.864	ug/l 96
36) 1,2-Dichloroethane	8.11	62	122383	21.226	ug/l 99
37) Trichloroethene	8.82	130	103263	20.768	ug/l 100
38) Methylcyclohexane	9.07	83	155561	20.776	ug/l 98
39) 1,2-Dichloropropane	9.11	63	96699	19.533	ug/l 97
40) Dibromomethane	9.20	93	63550	20.925	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	120521	20.652	ug/l	99
42) Vinyl Acetate	5.88	43	1039593	98.713	ug/l	98
43) Ethyl Acetate	6.92	43	97256	20.061	ug/l	99
44) Isopropyl Acetate	8.15	43	171021	21.164	ug/l #	82
45) 1,4-Dioxane	9.19	88	31865	414.201	ug/l	97
46) Methyl methacrylate	9.19	41	76862	19.066	ug/l	98
47) n-amyl Acetate	12.07	43	114981	17.774	ug/l	98
48) t-1,3-Dichloropropene	10.37	75	123738	20.376	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	144928	20.480	ug/l	97
50) 1,1,2-Trichloroethane	10.55	97	90700	20.801	ug/l	99
51) Ethyl methacrylate	10.42	69	124430	19.729	ug/l	99
52) 1,3-Dichloropropane	10.70	76	151898	20.641	ug/l	99
53) Dibromochloromethane	10.90	129	94065	20.754	ug/l	98
54) 1,2-Dibromoethane	11.00	107	94287	21.196	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	195948	71.737	ug/l	98
56) Bromoform	12.12	173	65353	20.840	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	477006	100.064	ug/l	98
59) 2-Hexanone	10.75	43	338010	104.056	ug/l	98
61) Tetrachloroethene	10.63	164	105739	21.239	ug/l	97
62) Toluene	10.15	91	406050	21.017	ug/l	100
64) Chlorobenzene	11.43	112	245960	21.135	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.50	131	94828	21.513	ug/l	98
66) Ethyl Benzene	11.51	91	425780	20.914	ug/l	98
67) m/p-Xylenes	11.62	106	320537	42.222	ug/l	100
68) o-Xylene	11.94	106	157592	21.113	ug/l	100
69) Styrene	11.96	104	242161	20.021	ug/l	100
70) Isopropylbenzene	12.25	105	419110	21.325	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	116582	21.179	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	101144m	20.883	ug/l	
73) Bromobenzene	12.52	156	105616	20.826	ug/l	96
74) n-propylbenzene	12.59	91	430602	20.038	ug/l	100
75) 2-Chlorotoluene	12.67	91	267691	20.547	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	350631	21.192	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	29563	19.441	ug/l	93
78) 4-Chlorotoluene	12.77	91	236800	19.121	ug/l	100
79) tert-butylbenzene	12.99	119	312367	21.878	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	335954	20.829	ug/l	99
81) sec-Butylbenzene	13.17	105	382606	20.526	ug/l	100
82) p-Isopropyltoluene	13.29	119	336833	20.120	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	149840	18.765	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	132609	17.565	ug/l	99
85) n-Butylbenzene	13.61	91	233562	17.768	ug/l	98
86) Hexachloroethane	13.87	117	59519	21.244	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	151526	19.105	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15077	17.704	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	47203	16.656	ug/l	98
90) Hexachlorobutadiene	15.00	225	66988	22.978	ug/l	97
91) Naphthalene	15.12	128	111967	15.667	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	56004	13.357	ug/l	99

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

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