

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081019\
 Data File : VN057173.D
 Acq On : 10 Aug 2019 13:51
 Operator : JC/SP
 Sample : VN0810WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 Client Sampled :
 VN0810WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:55:50 PM

Quant Time: Aug 12 01:14:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:53:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	189174	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	1021576	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.90	117	887793	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	361387	29.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.70%
60) 4-Bromofluorobenzene	11.92	95	374987	28.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.57%
63) Toluene-d8	9.56	98	1242757	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	204549	19.824	ug/l 97
3) Chloromethane	2.00	50	240621	20.131	ug/l 99
4) Vinyl Chloride	2.11	62	235969	19.406	ug/l 98
5) Bromomethane	2.44	94	176053	20.325	ug/l 100
6) Chloroethane	2.55	64	153989	19.529	ug/l 100
7) Trichlorofluoromethane	2.83	101	349533	19.278	ug/l 98
8) Diethyl Ether	3.14	74	130891	19.369	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.44	101	207347	18.906	ug/l 99
10) 1,1-Dichloroethene	3.43	96	208463	19.224	ug/l 99
11) Methyl Iodide	3.63	142	315571	18.650	ug/l 99
12) Methyl Acetate	3.89	43	210503	18.635	ug/l 99
13) Acrolein	3.31	56	120297	96.567	ug/l 99
14) Acrylonitrile	4.45	53	450756	95.645	ug/l 99
15) Acetone	3.47	58	119965	76.699	ug/l 94
16) Carbon Disulfide	3.72	76	546000	18.664	ug/l 99
17) Allyl chloride	3.91	41	292607	18.304	ug/l 99
18) Methylene Chloride	4.10	84	233231	18.972	ug/l 97
19) trans-1,2-Dichloroethene	4.51	96	217362	18.697	ug/l 95
20) Diisopropyl ether	5.32	45	644156	19.757	ug/l 94
21) 1,1-Dichloroethane	5.25	63	390406	19.226	ug/l 99
22) cis-1,2-Dichloroethene	6.21	96	253935	19.192	ug/l 99
23) tert-Butyl Alcohol	4.23	59	124461	80.031	ug/l # 100
24) Methyl tert-Butyl Ether	4.49	73	623694	19.559	ug/l 100
25) Chloroform	6.76	83	399180	19.118	ug/l 98
26) Cyclohexane	7.07	56	333881	19.234	ug/l # 99
29) 1,1-Dichloropropene	7.20	75	295313	19.223	ug/l 99
30) 2-Butanone	6.20	43	534877	88.434	ug/l 100
31) 2,2-Dichloropropane	6.21	77	295447	17.987	ug/l 99
32) 1,1,1-Trichloroethane	6.98	97	342874	19.272	ug/l 100
33) Carbon Tetrachloride	7.19	117	302688	19.112	ug/l 99
34) Benzene	7.46	78	911013	19.426	ug/l 99
35) Methacrylonitrile	6.55	41	121498	19.876	ug/l 95
36) 1,2-Dichloroethane	7.54	62	288244	19.240	ug/l 100
37) Trichloroethene	8.27	130	255867	19.201	ug/l 98
38) Methylcyclohexane	8.52	83	351680	19.183	ug/l 100
39) 1,2-Dichloropropane	8.56	63	232744	19.254	ug/l 94
40) Dibromomethane	8.65	93	153785	19.762	ug/l 99

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

41) Bromodichloromethane	8.85	83	302912	19.576	ug/l	98
42) Vinyl Acetate	5.27	43	2485894	98.865	ug/l	100
43) Ethyl Acetate	6.28	43	198493	17.794	ug/l #	88
44) Isopropyl Acetate	7.56	43	385071	19.012	ug/l	96
45) 1,4-Dioxane	8.64	88	63712	337.089	ug/l	98
46) Methyl methacrylate	8.64	41	179275	19.414	ug/l	99
47) n-amyl Acetate	11.59	43	271484	18.219	ug/l	100
48) t-1,3-Dichloropropene	9.86	75	314811	19.080	ug/l	98
49) cis-1,3-Dichloropropene	9.30	75	352332	18.838	ug/l	99
50) 1,1,2-Trichloroethane	10.04	97	221298	19.897	ug/l	96
51) Ethyl methacrylate	9.90	69	306442	19.524	ug/l	99
52) 1,3-Dichloropropane	10.19	76	365076	19.693	ug/l	100
53) Dibromochloromethane	10.39	129	241700	19.286	ug/l	99
54) 1,2-Dibromoethane	10.50	107	229673	19.782	ug/l	98
55) 2-Chloroethyl vinyl ether	9.15	63	380708	85.905	ug/l	99
56) Bromoform	11.64	173	173016	18.682	ug/l	99
58) 4-Methyl-2-Pentanone	9.45	43	1133340	99.373	ug/l	99
59) 2-Hexanone	10.24	43	758439	92.498	ug/l	99
61) Tetrachloroethene	10.11	164	261013	19.155	ug/l	97
62) Toluene	9.63	91	992281	19.636	ug/l	100
64) Chlorobenzene	10.93	112	608282	19.571	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.01	131	236097	19.808	ug/l	99
66) Ethyl Benzene	11.01	91	1061702	19.600	ug/l	99
67) m/p-Xylenes	11.13	106	787041	38.528	ug/l	100
68) o-Xylene	11.46	106	391316	19.731	ug/l	98
69) Styrene	11.47	104	591188	18.590	ug/l	99
70) Isopropylbenzene	11.76	105	1035245	19.388	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.02	83	292854	20.026	ug/l	99
72) 1,2,3-Trichloropropane	12.08	75	226412m	17.690	ug/l	
73) Bromobenzene	12.04	156	258010	18.635	ug/l	98
74) n-propylbenzene	12.11	91	1031640	18.404	ug/l	100
75) 2-Chlorotoluene	12.20	91	655806	18.915	ug/l	99
76) 1,3,5-Trimethylbenzene	12.26	105	866796	19.280	ug/l	88
77) t-1,4-Dichloro-2-butene	11.82	75	74930	17.396	ug/l	97
78) 4-Chlorotoluene	12.30	91	580269	18.021	ug/l	100
79) tert-butylbenzene	12.52	119	773854	19.529	ug/l	99
80) 1,2,4-Trimethylbenzene	12.57	105	813015	19.176	ug/l	98
81) sec-Butylbenzene	12.70	105	930978	18.633	ug/l	99
82) p-Isopropyltoluene	12.82	119	807554	18.152	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	359119	17.034	ug/l	99
84) 1,4-Dichlorobenzene	12.90	146	329055	16.779	ug/l	99
85) n-Butylbenzene	13.15	91	584012	18.155	ug/l	99
86) Hexachloroethane	13.41	117	144056	17.808	ug/l	98
87) 1,2-Dichlorobenzene	13.19	146	367945	17.599	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.81	75	35428	17.267	ug/l	92
89) 1,2,4-Trichlorobenzene	14.45	180	104476	17.356	ug/l	100
90) Hexachlorobutadiene	14.55	225	156901	17.407	ug/l	99
91) Naphthalene	14.67	128	195819	12.339	ug/l	99
92) 1,2,3-Trichlorobenzene	14.83	180	112954	18.458	ug/l	96

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

