

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055731.D
 Acq On : 22 May 2019 21:07
 Operator : JC/SP
 Sample : VN0522WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBS01

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:29:53 PM

Quant Time: May 23 06:34:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	56267	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	310650	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	266512	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113625	30.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.97%
60) 4-Bromofluorobenzene	12.40	95	122640	29.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.60%
63) Toluene-d8	10.09	98	375665	30.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	48628	19.711	ug/l 98
3) Chloromethane	2.06	50	70010	19.951	ug/l 98
4) Vinyl Chloride	2.18	62	73320	20.472	ug/l 100
5) Bromomethane	2.55	94	49991	23.841	ug/l 98
6) Chloroethane	2.69	64	44771	21.399	ug/l 95
7) Trichlorofluoromethane	3.01	101	92040	20.484	ug/l 99
8) Diethyl Ether	3.41	74	41343	20.931	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	57627	20.298	ug/l 99
10) 1,1-Dichloroethene	3.73	96	58707	19.767	ug/l 97
11) Methyl Iodide	3.94	142	79598	18.787	ug/l 98
12) Methyl Acetate	4.33	43	71976	19.815	ug/l 99
13) Acrolein	3.60	56	48995	97.077	ug/l 96
14) Acrylonitrile	4.99	53	168066	101.488	ug/l 99
15) Acetone	3.82	58	46824	91.043	ug/l 98
16) Carbon Disulfide	4.04	76	169536	19.910	ug/l 100
17) Allyl chloride	4.31	41	107210	20.043	ug/l 98
18) Methylene Chloride	4.55	84	68843	20.239	ug/l 97
19) trans-1,2-Dichloroethene	5.03	96	64282	20.120	ug/l 96
20) Diisopropyl ether	5.96	45	206759	19.926	ug/l 96
21) 1,1-Dichloroethane	5.84	63	118697	20.240	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	76224	20.457	ug/l 97
23) tert-Butyl Alcohol	4.81	59	70472	96.897	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	204123	20.256	ug/l 100
25) Chloroform	7.37	83	118780	20.507	ug/l 98
26) Cyclohexane	7.65	56	110788	20.478	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	87694	20.165	ug/l 98
30) 2-Butanone	6.84	43	223150	96.271	ug/l 100
31) 2,2-Dichloropropane	6.82	77	92092	18.198	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	104372	20.249	ug/l 99
33) Carbon Tetrachloride	7.77	117	92273	20.011	ug/l 99
34) Benzene	8.04	78	271194	20.199	ug/l 99
35) Methacrylonitrile	7.18	41	41908	19.588	ug/l 98
36) 1,2-Dichloroethane	8.12	62	89093	20.306	ug/l 99
37) Trichloroethene	8.84	130	73089	19.511	ug/l 98
38) Methylcyclohexane	9.08	83	108692	19.727	ug/l 98
39) 1,2-Dichloropropane	9.12	63	73093	20.251	ug/l 97
40) Dibromomethane	9.21	93	47203	20.253	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	95723	20.039	ug/l	99
42) Vinyl Acetate	5.90	43	912668	101.413	ug/l	100
43) Ethyl Acetate	6.93	43	89018	19.538	ug/l #	100
44) Isopropyl Acetate	8.17	43	148658	19.704	ug/l #	87
45) 1,4-Dioxane	9.20	88	27230	383.636	ug/l	97
46) Methyl methacrylate	9.20	41	72375	20.561	ug/l	99
47) n-amyl Acetate	12.07	43	119223	19.105	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	101502	19.250	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	114127	19.774	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	67724	19.960	ug/l	98
51) Ethyl methacrylate	10.43	69	109389	20.002	ug/l	99
52) 1,3-Dichloropropane	10.71	76	113118	20.226	ug/l	99
53) Dibromochloromethane	10.90	129	78588	19.607	ug/l	97
54) 1,2-Dibromoethane	11.01	107	69700	19.852	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	204038	95.887	ug/l	99
56) Bromoform	12.13	173	60778	18.486	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	451973	102.442	ug/l	99
59) 2-Hexanone	10.75	43	311644	98.803	ug/l	99
61) Tetrachloroethene	10.63	164	71651	19.860	ug/l	97
62) Toluene	10.16	91	294694	20.562	ug/l	99
64) Chlorobenzene	11.43	112	176114	20.257	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	70631	20.164	ug/l	98
66) Ethyl Benzene	11.51	91	320885	20.492	ug/l	98
67) m/p-Xylenes	11.62	106	242309	40.734	ug/l	100
68) o-Xylene	11.95	106	120064	20.396	ug/l	100
69) Styrene	11.96	104	193106	19.884	ug/l	100
70) Isopropylbenzene	12.25	105	312184	20.269	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	97474	20.564	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	87408m	21.426	ug/l	
73) Bromobenzene	12.53	156	78711	19.318	ug/l	97
74) n-propylbenzene	12.59	91	332920	20.042	ug/l	99
75) 2-Chlorotoluene	12.67	91	206626	20.363	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	258053	20.270	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	29579	18.254	ug/l	96
78) 4-Chlorotoluene	12.77	91	190024	19.760	ug/l	99
79) tert-butylbenzene	12.99	119	225624	20.159	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	254037	20.101	ug/l	98
81) sec-Butylbenzene	13.17	105	285421	20.071	ug/l	100
82) p-Isopropyltoluene	13.29	119	256164	19.574	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	121726	19.057	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	111623	18.350	ug/l	98
85) n-Butylbenzene	13.61	91	189672	18.629	ug/l	99
86) Hexachloroethane	13.87	117	50893	19.771	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	123799	19.248	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17405	19.374	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	53815	15.501	ug/l	98
90) Hexachlorobutadiene	15.01	225	45372	17.515	ug/l	98
91) Naphthalene	15.13	128	160683	16.939	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	61323	16.901	ug/l	99

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

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