

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056239.D
 Acq On : 12 Jun 2019 10:47
 Operator : JC/SP
 Sample : VN0612WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0612WBS01

Manual Integrations
 APPROVED

MMDadoda
 6/13/2019 9:42:15 AM

Quant Time: Jun 13 04:55:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	50388	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	251085	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	221957	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	92419	29.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.47%
60) 4-Bromofluorobenzene	12.40	95	94957	28.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.20%
63) Toluene-d8	10.09	98	308763	30.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	59722	21.073	ug/l 98
3) Chloromethane	2.06	50	67336	20.336	ug/l 97
4) Vinyl Chloride	2.19	62	65169	19.303	ug/l 100
5) Bromomethane	2.55	94	43603	20.551	ug/l 98
6) Chloroethane	2.69	64	37706	19.746	ug/l 95
7) Trichlorofluoromethane	3.01	101	83201	19.918	ug/l 98
8) Diethyl Ether	3.40	74	31874	17.992	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	51551	19.993	ug/l 96
10) 1,1-Dichloroethene	3.72	96	50533	19.212	ug/l 99
11) Methyl Iodide	3.94	142	77946	18.783	ug/l 98
12) Methyl Acetate	4.33	43	59905	18.953	ug/l 98
13) Acrolein	3.60	56	15377	99.815	ug/l 98
14) Acrylonitrile	4.99	53	135750	96.310	ug/l 99
15) Acetone	3.82	58	42668	92.452	ug/l 97
16) Carbon Disulfide	4.04	76	122669	19.601	ug/l 100
17) Allyl chloride	4.31	41	78763	19.327	ug/l 96
18) Methylene Chloride	4.54	84	59899	19.671	ug/l 95
19) trans-1,2-Dichloroethene	5.03	96	53698	19.126	ug/l 97
20) Diisopropyl ether	5.95	45	164061	19.431	ug/l 98
21) 1,1-Dichloroethane	5.84	63	95656	19.494	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	63363	19.336	ug/l 99
23) tert-Butyl Alcohol	4.81	59	39774	72.496	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	156479	18.668	ug/l 100
25) Chloroform	7.37	83	99443	20.295	ug/l 100
26) Cyclohexane	7.65	56	84749	18.616	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	71422	21.029	ug/l 99
30) 2-Butanone	6.84	43	183407	102.576	ug/l 99
31) 2,2-Dichloropropane	6.82	77	65162	20.624	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	80222	21.379	ug/l 98
33) Carbon Tetrachloride	7.77	117	70660	22.226	ug/l 98
34) Benzene	8.04	78	228307	21.097	ug/l 99
35) Methacrylonitrile	7.18	41	33140	21.949	ug/l 98
36) 1,2-Dichloroethane	8.12	62	74881	22.091	ug/l 98
37) Trichloroethene	8.83	130	63777	21.061	ug/l 99
38) Methylcyclohexane	9.08	83	86839	20.168	ug/l 99
39) 1,2-Dichloropropane	9.12	63	59423	21.440	ug/l 96
40) Dibromomethane	9.21	93	39584	21.541	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	72649	22.078	ug/l	99
42) Vinyl Acetate	5.90	43	658941	103.371	ug/l	100
43) Ethyl Acetate	6.93	43	69357	20.268	ug/l	94
44) Isopropyl Acetate	8.17	43	104298	19.630	ug/l	98
45) 1,4-Dioxane	9.20	88	21158	372.260	ug/l	91
46) Methyl methacrylate	9.20	41	51346	19.453	ug/l	98
47) n-amyl Acetate	12.07	43	80673	18.360	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	66700	19.261	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	80219	19.783	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	57258	20.978	ug/l	97
51) Ethyl methacrylate	10.43	69	77671	18.809	ug/l	98
52) 1,3-Dichloropropane	10.71	76	90587	20.472	ug/l	97
53) Dibromochloromethane	10.90	129	59691	22.340	ug/l	99
54) 1,2-Dibromoethane	11.00	107	58539	20.553	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	118649	82.031	ug/l	99
56) Bromoform	12.13	173	42481	21.978	ug/l #	95
58) 4-Methyl-2-Pentanone	9.99	43	344780	102.583	ug/l	98
59) 2-Hexanone	10.75	43	242561	100.972	ug/l	98
61) Tetrachloroethene	10.63	164	66124	21.376	ug/l	99
62) Toluene	10.16	91	245170	20.461	ug/l	100
64) Chlorobenzene	11.43	112	149166	20.524	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	57214	21.831	ug/l	98
66) Ethyl Benzene	11.51	91	255484	20.019	ug/l	100
67) m/p-Xylenes	11.62	106	198071	40.548	ug/l	99
68) o-Xylene	11.95	106	95576	19.986	ug/l	100
69) Styrene	11.96	104	150781	19.406	ug/l	99
70) Isopropylbenzene	12.25	105	253892	20.320	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	78152	20.746	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	66274m	20.322	ug/l	
73) Bromobenzene	12.53	156	66342	20.004	ug/l	99
74) n-propylbenzene	12.59	91	259697	19.695	ug/l	100
75) 2-Chlorotoluene	12.67	91	163112	19.944	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	208343	20.271	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	16892	18.153	ug/l	96
78) 4-Chlorotoluene	12.77	91	144272	18.888	ug/l	100
79) tert-butylbenzene	12.99	119	186455	20.477	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	198146	19.818	ug/l	99
81) sec-Butylbenzene	13.17	105	233945	20.309	ug/l	100
82) p-Isopropyltoluene	13.29	119	204015	19.589	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	99318	19.216	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	87786	17.831	ug/l	99
85) n-Butylbenzene	13.61	91	132885	17.096	ug/l	98
86) Hexachloroethane	13.87	117	33796	20.815	ug/l	92
87) 1,2-Dichlorobenzene	13.65	146	101404	19.302	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11216	18.967	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	35179	18.101	ug/l	99
90) Hexachlorobutadiene	15.01	225	42813	22.323	ug/l	99
91) Naphthalene	15.13	128	89040	12.761	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	42750	15.545	ug/l	99

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

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