

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056689.D
 Acq On : 12 Jul 2019 14:49
 Operator : JC/SP
 Sample : VN0713WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0713WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:49 AM

Quant Time: Jul 13 00:33:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53067	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	289342	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	252700	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	107432	29.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.63%
60) 4-Bromofluorobenzene	12.40	95	113730	29.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.03%
63) Toluene-d8	10.09	98	358475	31.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	58959	19.552	ug/l 98
3) Chloromethane	2.06	50	81132	20.118	ug/l 99
4) Vinyl Chloride	2.18	62	78646	19.827	ug/l 100
5) Bromomethane	2.56	94	48511	19.403	ug/l 96
6) Chloroethane	2.70	64	43905	19.371	ug/l 100
7) Trichlorofluoromethane	3.01	101	99695	19.596	ug/l 100
8) Diethyl Ether	3.41	74	40643	19.535	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	61017	19.233	ug/l 99
10) 1,1-Dichloroethene	3.73	96	60427	19.307	ug/l 97
11) Methyl Iodide	3.95	142	77072	18.530	ug/l 98
12) Methyl Acetate	4.33	43	78234	18.673	ug/l 94
13) Acrolein	3.61	56	24422	82.680	ug/l 98
14) Acrylonitrile	4.99	53	180044	97.554	ug/l 98
15) Acetone	3.82	58	49912	78.346	ug/l 99
16) Carbon Disulfide	4.05	76	151782	18.387	ug/l 99
17) Allyl chloride	4.32	41	103329	18.873	ug/l 96
18) Methylene Chloride	4.55	84	70846	19.280	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	64794	19.338	ug/l 99
20) Diisopropyl ether	5.95	45	213413	19.563	ug/l 99
21) 1,1-Dichloroethane	5.85	63	120145	19.275	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	76395	19.499	ug/l 98
23) tert-Butyl Alcohol	4.79	59	62476	97.042	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	193372	19.370	ug/l 99
25) Chloroform	7.37	83	117243	19.307	ug/l 98
26) Cyclohexane	7.65	56	110214	19.023	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	88393	19.219	ug/l 99
30) 2-Butanone	6.84	43	237798	89.300	ug/l 98
31) 2,2-Dichloropropane	6.82	77	81236	18.250	ug/l # 74
32) 1,1,1-Trichloroethane	7.57	97	96507	19.685	ug/l 99
33) Carbon Tetrachloride	7.77	117	81284	19.267	ug/l 96
34) Benzene	8.04	78	275786	19.515	ug/l 100
35) Methacrylonitrile	7.18	41	41319	20.311	ug/l 98
36) 1,2-Dichloroethane	8.12	62	89482	19.712	ug/l 100
37) Trichloroethene	8.84	130	73745	19.214	ug/l 97
38) Methylcyclohexane	9.08	83	108194	18.621	ug/l 99
39) 1,2-Dichloropropane	9.12	63	74544	19.652	ug/l 99
40) Dibromomethane	9.21	93	47318	19.585	ug/l 98

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

41) Bromodichloromethane	9.40	83	86227	19.365	ug/l	99
42) Vinyl Acetate	5.90	43	875063	98.737	ug/l	100
43) Ethyl Acetate	6.93	43	94043	19.543	ug/l	97
44) Isopropyl Acetate	8.17	43	145022	19.322	ug/l #	87
45) 1,4-Dioxane	9.20	88	29486	388.331	ug/l	96
46) Methyl methacrylate	9.20	41	68518	19.003	ug/l	97
47) n-amyl Acetate	12.07	43	112910	18.395	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	88339	18.036	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	102849	18.614	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	69259	19.676	ug/l	98
51) Ethyl methacrylate	10.43	69	103736	19.160	ug/l	99
52) 1,3-Dichloropropane	10.71	76	115442	19.601	ug/l	98
53) Dibromochloromethane	10.90	129	67375	18.939	ug/l	99
54) 1,2-Dibromoethane	11.00	107	71373	19.510	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	256702	98.047	ug/l	99
56) Bromoform	12.12	173	47865	18.176	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	477059	100.303	ug/l	100
59) 2-Hexanone	10.75	43	341809	94.676	ug/l	99
61) Tetrachloroethene	10.63	164	74424	20.496	ug/l	98
62) Toluene	10.16	91	298425	20.106	ug/l	98
64) Chlorobenzene	11.43	112	176638	19.513	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	65329	19.684	ug/l	99
66) Ethyl Benzene	11.51	91	308337	19.219	ug/l	99
67) m/p-Xylenes	11.62	106	235842	38.953	ug/l	99
68) o-Xylene	11.95	106	116187	19.674	ug/l	97
69) Styrene	11.96	104	187308	19.142	ug/l	99
70) Isopropylbenzene	12.25	105	303653	19.616	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	100369	19.977	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	86661m	20.181	ug/l	
73) Bromobenzene	12.52	156	78653	19.444	ug/l	99
74) n-propylbenzene	12.59	91	326800	18.713	ug/l	99
75) 2-Chlorotoluene	12.67	91	205875	19.573	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	255236	19.331	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	24371	17.073	ug/l	95
78) 4-Chlorotoluene	12.77	91	190142	18.642	ug/l	99
79) tert-butylbenzene	12.99	119	216639	19.288	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	252124	19.254	ug/l	98
81) sec-Butylbenzene	13.17	105	282627	19.010	ug/l	99
82) p-Isopropyltoluene	13.29	119	256989	19.007	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	123103	18.259	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	116428	18.016	ug/l	100
85) n-Butylbenzene	13.61	91	194393	17.430	ug/l	99
86) Hexachloroethane	13.87	117	38383	18.093	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	128947	19.032	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.26	75	16078	18.548	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	58250	15.984	ug/l	97
90) Hexachlorobutadiene	15.01	225	42602	17.980	ug/l	99
91) Naphthalene	15.13	128	157128	16.030	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	64895	16.982	ug/l	99

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

