

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055255.D
 Acq On : 25 Apr 2019 20:31
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042619

Manual Integrations
 APPROVED

MMdadoda
 4/26/2019 10:58:04 AM

Quant Time: Apr 26 05:29:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 05:19:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	69608	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	380495	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	325945	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	162127	29.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.37%
60) 4-Bromofluorobenzene	12.40	95	146496	29.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.60%
63) Toluene-d8	10.09	98	470074	30.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	71606	18.862	ug/l 100
3) Chloromethane	2.06	50	103476	19.490	ug/l 91
4) Vinyl Chloride	2.19	62	85000	19.644	ug/l 99
5) Bromomethane	2.56	94	51568	21.392	ug/l 98
6) Chloroethane	2.70	64	48191	19.993	ug/l 95
7) Trichlorofluoromethane	3.02	101	128536	20.207	ug/l 94
8) Diethyl Ether	3.41	74	51183	19.821	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	79309	19.589	ug/l 99
10) 1,1-Dichloroethene	3.74	96	73206	19.422	ug/l 99
11) Methyl Iodide	3.95	142	108215	18.256	ug/l 96
12) Methyl Acetate	4.33	43	112026	20.477	ug/l 93
13) Acrolein	3.61	56	23714	97.440	ug/l 99
14) Acrylonitrile	4.99	53	196602	101.174	ug/l 99
15) Acetone	3.82	58	42917	91.676	ug/l 94
16) Carbon Disulfide	4.05	76	199998	19.522	ug/l 99
17) Allyl chloride	4.33	41	161642	19.914	ug/l 98
18) Methylene Chloride	4.55	84	89781	19.186	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	81190	19.771	ug/l 96
20) Diisopropyl ether	5.96	45	334847	20.234	ug/l 97
21) 1,1-Dichloroethane	5.85	63	168288	19.569	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	93174	19.585	ug/l 98
23) tert-Butyl Alcohol	4.80	59	40689	102.562	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	245747	20.007	ug/l 98
25) Chloroform	7.37	83	164740	20.387	ug/l 98
26) Cyclohexane	7.65	56	145682	19.506	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	119854	19.876	ug/l 99
30) 2-Butanone	6.84	43	233422	95.517	ug/l 99
31) 2,2-Dichloropropane	6.82	77	108374	18.975	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	131361	19.596	ug/l 99
33) Carbon Tetrachloride	7.78	117	108703	19.448	ug/l 96
34) Benzene	8.04	78	352555	19.529	ug/l 99
35) Methacrylonitrile	7.17	41	53742	19.068	ug/l 97
36) 1,2-Dichloroethane	8.12	62	127132	19.740	ug/l 100
37) Trichloroethene	8.84	130	90428	19.846	ug/l 98
38) Methylcyclohexane	9.08	83	123099	19.081	ug/l 99
39) 1,2-Dichloropropane	9.12	63	100176	19.384	ug/l 96
40) Dibromomethane	9.21	93	59182	19.764	ug/l 98

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

41) Bromodichloromethane	9.40	83	118133	19.398	ug/l	95
42) Vinyl Acetate	5.90	43	1142366	97.616	ug/l	100
43) Ethyl Acetate	6.93	43	101825	20.105	ug/l	94
44) Isopropyl Acetate	8.17	43	184022	19.746	ug/l #	81
45) 1,4-Dioxane	9.20	88	19946	412.965	ug/l	96
46) Methyl methacrylate	9.20	41	86261	19.658	ug/l	99
47) n-amyl Acetate	12.07	43	120579	18.187	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	113210	18.893	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	133084	19.144	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	81511	19.970	ug/l	97
51) Ethyl methacrylate	10.43	69	102849	18.535	ug/l	96
52) 1,3-Dichloropropane	10.71	76	140010	19.373	ug/l	99
53) Dibromochloromethane	10.90	129	80864	19.157	ug/l	99
54) 1,2-Dibromoethane	11.00	107	77361	19.535	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	155101	92.734	ug/l	99
56) Bromoform	12.13	173	49765	17.988	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	505336	99.308	ug/l	99
59) 2-Hexanone	10.75	43	316435	97.139	ug/l	100
61) Tetrachloroethene	10.63	164	84031	19.868	ug/l	97
62) Toluene	10.16	91	363705	19.722	ug/l	97
64) Chlorobenzene	11.43	112	216774	19.842	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	82653	20.281	ug/l	97
66) Ethyl Benzene	11.51	91	392769	20.038	ug/l	100
67) m/p-Xylenes	11.62	106	286793	39.956	ug/l	99
68) o-Xylene	11.95	106	144989	20.240	ug/l	96
69) Styrene	11.96	104	215007	19.374	ug/l	100
70) Isopropylbenzene	12.25	105	383955	20.361	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	104854	20.175	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	84216m	18.692	ug/l	
73) Bromobenzene	12.53	156	87440	19.507	ug/l	98
74) n-propylbenzene	12.59	91	412425	19.598	ug/l	99
75) 2-Chlorotoluene	12.67	91	260117	20.151	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	302648	19.557	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	21564	17.983	ug/l	96
78) 4-Chlorotoluene	12.77	91	235820	19.217	ug/l	99
79) tert-butylbenzene	12.99	119	270165	20.268	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	294126	19.713	ug/l	100
81) sec-Butylbenzene	13.17	105	354174	20.100	ug/l	99
82) p-Isopropyltoluene	13.29	119	288032	19.706	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	136977	18.838	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	129233	18.830	ug/l	99
85) n-Butylbenzene	13.61	91	202684	18.187	ug/l	99
86) Hexachloroethane	13.87	117	48938	19.627	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	141770	19.485	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13607	17.886	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	49497	17.193	ug/l	97
90) Hexachlorobutadiene	15.01	225	50759	20.823	ug/l	95
91) Naphthalene	15.13	128	109957	16.529	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	53607	17.848	ug/l	99

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

