

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058343.D
 Acq On : 24 Sep 2019 13:43
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092419

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:24:04 AM

Quant Time: Sep 25 01:54:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:36:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	86757	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	508740	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	456386	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	229820	29.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.90%
60) 4-Bromofluorobenzene	12.41	95	234203	29.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.87%
63) Toluene-d8	10.09	98	655201	30.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	107989	20.699	ug/l 99
3) Chloromethane	2.04	50	125024	20.754	ug/l 99
4) Vinyl Chloride	2.17	62	122586	20.393	ug/l 95
5) Bromomethane	2.55	94	63526	19.463	ug/l 99
6) Chloroethane	2.69	64	74352	20.930	ug/l 95
7) Trichlorofluoromethane	3.00	101	145335	20.534	ug/l 100
8) Diethyl Ether	3.39	74	64700	20.563	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	98428	20.203	ug/l 98
10) 1,1-Dichloroethene	3.71	96	95687	20.091	ug/l 99
11) Methyl Iodide	3.93	142	96928	19.850	ug/l 100
12) Methyl Acetate	4.30	43	129881	20.475	ug/l 99
13) Acrolein	3.59	56	25872	143.433	ug/l 96
14) Acrylonitrile	4.96	53	268138	102.374	ug/l 99
15) Acetone	3.79	58	85146	117.243	ug/l 93
16) Carbon Disulfide	4.03	76	256888	19.409	ug/l 100
17) Allyl chloride	4.30	41	166766	18.746	ug/l 93
18) Methylene Chloride	4.53	84	116457	20.728	ug/l 97
19) trans-1,2-Dichloroethene	5.02	96	108508	20.322	ug/l 95
20) Diisopropyl ether	5.93	45	384260	20.271	ug/l 98
21) 1,1-Dichloroethane	5.82	63	219623	20.704	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	125813	20.286	ug/l 99
23) tert-Butyl Alcohol	4.75	59	95413	98.679	ug/l # 100
24) Methyl tert-Butyl Ether	5.01	73	353319	20.667	ug/l 99
25) Chloroform	7.35	83	217642	20.263	ug/l 100
26) Cyclohexane	7.63	56	195930	19.762	ug/l 99
29) 1,1-Dichloropropene	7.78	75	167800	20.207	ug/l 98
30) 2-Butanone	6.81	43	404623	107.308	ug/l 99
31) 2,2-Dichloropropane	6.81	77	177027	20.706	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	182128	20.334	ug/l 99
33) Carbon Tetrachloride	7.76	117	150425	19.767	ug/l 95
34) Benzene	8.03	78	481507	20.440	ug/l 99
35) Methacrylonitrile	7.16	41	67384	20.777	ug/l 93
36) 1,2-Dichloroethane	8.11	62	186967	20.260	ug/l 100
37) Trichloroethene	8.82	130	119548	20.271	ug/l 94
38) Methylcyclohexane	9.07	83	199979	19.915	ug/l 98
39) 1,2-Dichloropropane	9.11	63	129697	20.184	ug/l 96
40) Dibromomethane	9.20	93	82821	20.422	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	157340	19.628	ug/l	99
42) Vinyl Acetate	5.87	43	1610285	111.849	ug/l	100
43) Ethyl Acetate	6.91	43	152412	20.358	ug/l	99
44) Isopropyl Acetate	8.15	43	265392	19.802	ug/l	96
45) 1,4-Dioxane	9.19	88	43326	383.206	ug/l	96
46) Methyl methacrylate	9.19	41	125154	19.705	ug/l	95
47) n-amyl Acetate	12.08	43	225887	19.364	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	170173	19.428	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	195285	20.024	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	113664	20.054	ug/l	96
51) Ethyl methacrylate	10.43	69	176985	19.736	ug/l	98
52) 1,3-Dichloropropane	10.71	76	202788	20.145	ug/l	99
53) Dibromochloromethane	10.90	129	108498	19.054	ug/l	98
54) 1,2-Dibromoethane	11.00	107	115597	19.985	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	390324	102.793	ug/l	99
56) Bromoform	12.13	173	67975	18.926	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	794248	111.067	ug/l	99
59) 2-Hexanone	10.75	43	594737	110.012	ug/l	100
61) Tetrachloroethene	10.63	164	95674	20.010	ug/l	98
62) Toluene	10.15	91	522832	20.917	ug/l	99
64) Chlorobenzene	11.44	112	313548	20.413	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	108778	20.202	ug/l	98
66) Ethyl Benzene	11.51	91	581370	21.331	ug/l	100
67) m/p-Xylenes	11.62	106	423940	40.515	ug/l	98
68) o-Xylene	11.95	106	203743	20.024	ug/l	97
69) Styrene	11.97	104	339552	19.956	ug/l	99
70) Isopropylbenzene	12.26	105	560023	21.239	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	168653	20.125	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	139536m	19.361	ug/l	
73) Bromobenzene	12.53	156	126712	19.841	ug/l	97
74) n-propylbenzene	12.60	91	660554	21.731	ug/l	100
75) 2-Chlorotoluene	12.68	91	387633	20.386	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	473360	20.850	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	43786	18.625	ug/l	94
78) 4-Chlorotoluene	12.78	91	399005	20.475	ug/l	100
79) tert-butylbenzene	13.00	119	406337	20.671	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	475963	21.003	ug/l	100
81) sec-Butylbenzene	13.18	105	547676	21.242	ug/l	99
82) p-Isopropyltoluene	13.30	119	493187	21.242	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	235670	20.001	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	228821	19.512	ug/l	100
85) n-Butylbenzene	13.62	91	446283	20.689	ug/l	100
86) Hexachloroethane	13.88	117	71569	19.084	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	228429	19.854	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	30885	18.883	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	141198	18.784	ug/l	98
90) Hexachlorobutadiene	15.02	225	72033	19.805	ug/l	96
91) Naphthalene	15.14	128	395042	19.137	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	133570	18.502	ug/l	98

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

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