

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056577.D
 Acq On : 3 Jul 2019 9:56
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:04:51 AM

Quant Time: Jul 03 10:49:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 10:45:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	50268	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	279107	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	247439	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	104763	30.29	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.97%
60) 4-Bromofluorobenzene	12.40	95	115714	32.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.87%
63) Toluene-d8	10.09	98	342785	29.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	125470	50.301	ug/l 99
3) Chloromethane	2.06	50	178198	47.913	ug/l 99
4) Vinyl Chloride	2.18	62	170676	49.292	ug/l 100
5) Bromomethane	2.52	94	92954m	48.277	ug/l
6) Chloroethane	2.68	64	94342	49.013	ug/l 98
7) Trichlorofluoromethane	3.00	101	220465	49.347	ug/l 97
8) Diethyl Ether	3.41	74	93658	50.139	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	140887	49.469	ug/l 94
10) 1,1-Dichloroethene	3.73	96	134982	49.463	ug/l 92
11) Methyl Iodide	3.95	142	195611	54.361	ug/l 99
12) Methyl Acetate	4.32	43	170500	42.275	ug/l 98
13) Acrolein	3.60	56	81509	209.517	ug/l 97
14) Acrylonitrile	4.99	53	408016	258.553	ug/l 99
15) Acetone	3.82	58	112652	241.864	ug/l 93
16) Carbon Disulfide	4.05	76	324616	53.306	ug/l 100
17) Allyl chloride	4.32	41	239985	51.854	ug/l 98
18) Methylene Chloride	4.55	84	159818	48.001	ug/l 94
19) trans-1,2-Dichloroethene	5.04	96	145514	48.334	ug/l 90
20) Diisopropyl ether	5.95	45	499075	50.270	ug/l 96
21) 1,1-Dichloroethane	5.85	63	276933	49.139	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	173330	49.284	ug/l 94
23) tert-Butyl Alcohol	4.80	59	147449	236.061	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	450964	49.966	ug/l 99
25) Chloroform	7.37	83	269915	47.984	ug/l 99
26) Cyclohexane	7.65	56	257598	50.513	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	204488	49.989	ug/l 98
30) 2-Butanone	6.84	43	569873	246.380	ug/l 98
31) 2,2-Dichloropropane	6.82	77	194501	49.553	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	219786	50.411	ug/l 99
33) Carbon Tetrachloride	7.77	117	185770	51.274	ug/l 98
34) Benzene	8.04	78	639421	48.489	ug/l 94
35) Methacrylonitrile	7.17	41	92231	44.504	ug/l 98
36) 1,2-Dichloroethane	8.12	62	203803	46.779	ug/l 97
37) Trichloroethene	8.83	130	166345	49.158	ug/l 93
38) Methylcyclohexane	9.08	83	258987	51.064	ug/l 98
39) 1,2-Dichloropropane	9.12	63	170449	48.142	ug/l 94
40) Dibromomethane	9.21	93	106192	49.092	ug/l 94

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

41) Bromodichloromethane	9.40	83	196325	51.066	ug/l	99
42) Vinyl Acetate	5.90	43	2062836	262.472	ug/l	98
43) Ethyl Acetate	6.93	43	220574	49.485	ug/l	98
44) Isopropyl Acetate	8.17	43	341871	50.413	ug/l #	87
45) 1,4-Dioxane	9.20	88	66024	953.633	ug/l	90
46) Methyl methacrylate	9.20	41	167112	49.706	ug/l	97
47) n-amyl Acetate	12.07	43	294227	56.207	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	215555	56.035	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	249340	54.456	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	157203	49.206	ug/l	97
51) Ethyl methacrylate	10.43	69	250117	52.162	ug/l	97
52) 1,3-Dichloropropane	10.71	76	267221	49.217	ug/l	99
53) Dibromochloromethane	10.90	129	155650	54.143	ug/l	99
54) 1,2-Dibromoethane	11.00	107	166239	51.489	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	645028	267.037	ug/l	98
56) Bromoform	12.13	173	112371	55.980	ug/l #	99
58) 4-Methyl-2-Pentanone	9.98	43	1105485	241.523	ug/l	97
59) 2-Hexanone	10.75	43	822135	245.907	ug/l	99
61) Tetrachloroethene	10.63	164	150927	45.982	ug/l	98
62) Toluene	10.16	91	675201	46.958	ug/l	99
64) Chlorobenzene	11.43	112	408477	48.054	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	150218	50.767	ug/l	98
66) Ethyl Benzene	11.51	91	739233	48.916	ug/l	98
67) m/p-Xylenes	11.62	106	554210	101.297	ug/l	95
68) o-Xylene	11.95	106	269111	48.312	ug/l	95
69) Styrene	11.96	104	457895	52.119	ug/l	98
70) Isopropylbenzene	12.25	105	713095	49.976	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	232507	48.093	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	189758m	45.080	ug/l	
73) Bromobenzene	12.53	156	184392	50.773	ug/l	91
74) n-propylbenzene	12.59	91	813900	51.880	ug/l	98
75) 2-Chlorotoluene	12.67	91	481657	49.703	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	599189	49.744	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	63980	62.168	ug/l	99
78) 4-Chlorotoluene	12.77	91	473474	52.773	ug/l	98
79) tert-butylbenzene	12.99	119	508519	48.550	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	599163	51.583	ug/l	99
81) sec-Butylbenzene	13.17	105	682473	50.560	ug/l	99
82) p-Isopropyltoluene	13.29	119	623057	53.117	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	310025	54.693	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	299225	56.061	ug/l	98
85) n-Butylbenzene	13.61	91	530620	57.395	ug/l	97
86) Hexachloroethane	13.87	117	91964	55.385	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	308764	51.716	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	40551	52.493	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	173885	66.570	ug/l	98
90) Hexachlorobutadiene	15.01	225	105206	49.943	ug/l	99
91) Naphthalene	15.13	128	496981	68.510	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	182999	62.012	ug/l	99

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

