

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063033.D
 Acq On : 20 Aug 2020 13:00
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 9:21:55 AM

Quant Time: Aug 20 13:45:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 13:39:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	31648	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	163490	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	156271	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	68787	30.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.27%
60) 4-Bromofluorobenzene	12.38	95	71545	28.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.57%
63) Toluene-d8	10.06	98	216029	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	45618	20.160	ug/l 100
3) Chloromethane	2.03	50	50333	20.102	ug/l 100
4) Vinyl Chloride	2.16	62	49733	19.731	ug/l 100
5) Bromomethane	2.53	94	30485	19.620	ug/l 100
6) Chloroethane	2.67	64	29263	19.643	ug/l 100
7) Trichlorofluoromethane	2.98	101	59081	19.437	ug/l 100
8) Diethyl Ether	3.37	74	18828	18.624	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	30614	18.627	ug/l 100
10) 1,1-Dichloroethene	3.70	96	27546	18.652	ug/l 100
11) Methyl Iodide	3.91	142	36063	17.798	ug/l 100
12) Methyl Acetate	4.28	43	37866	19.235	ug/l 100
13) Acrolein	3.57	56	17433	86.406	ug/l 100
14) Acrylonitrile	4.93	53	81682	94.761	ug/l 100
15) Acetone	3.78	58	23643	94.772	ug/l 100
16) Carbon Disulfide	4.01	76	74396	18.764	ug/l 100
17) Allyl chloride	4.27	41	49011	18.086	ug/l 100
18) Methylene Chloride	4.50	84	39211	18.976	ug/l 100
19) trans-1,2-Dichloroethene	4.99	96	29905	18.414	ug/l 100
20) Diisopropyl ether	5.90	45	120231	18.943	ug/l 100
21) 1,1-Dichloroethane	5.80	63	65458	18.792	ug/l 100
22) cis-1,2-Dichloroethene	6.78	96	36763	18.267	ug/l 100
23) tert-Butyl Alcohol	4.74	59	27129	96.068	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	99522	18.369	ug/l 100
25) Chloroform	7.33	83	64294	18.534	ug/l 100
26) Cyclohexane	7.61	56	55733	18.586	ug/l # 100
29) 1,1-Dichloropropene	7.75	75	43468	18.308	ug/l 100
30) 2-Butanone	6.79	43	102513	92.635	ug/l 100
31) 2,2-Dichloropropane	6.78	77	52672	18.251	ug/l 100
32) 1,1,1-Trichloroethane	7.53	97	53311	18.643	ug/l 100
33) Carbon Tetrachloride	7.73	117	44762	18.382	ug/l 100
34) Benzene	8.00	78	142900	18.781	ug/l 100
35) Methacrylonitrile	7.13	41	20689	20.047	ug/l 100
36) 1,2-Dichloroethane	8.09	62	49015	18.883	ug/l 100
37) Trichloroethene	8.80	130	34713	18.629	ug/l 100
38) Methylcyclohexane	9.05	83	52866	17.752	ug/l 100
39) 1,2-Dichloropropane	9.09	63	41593	18.783	ug/l 100
40) Dibromomethane	9.18	93	24158	18.790	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	52568	18.451	ug/l	100
42) Vinyl Acetate	5.85	43	370672	88.420	ug/l	100
43) Ethyl Acetate	6.89	43	39854	18.868	ug/l	100
44) Isopropyl Acetate	8.13	43	64760	18.263	ug/l	100
45) 1,4-Dioxane	9.17	88	11943	359.617	ug/l	100
46) Methyl methacrylate	9.17	41	31416	17.995	ug/l	100
47) n-amyl Acetate	12.05	43	53555	17.017	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	54408	18.082	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	60596	18.501	ug/l	100
50) 1,1,2-Trichloroethane	10.54	97	37021	18.675	ug/l	100
51) Ethyl methacrylate	10.40	69	47474	17.602	ug/l	100
52) 1,3-Dichloropropane	10.68	76	61485	18.774	ug/l	100
53) Dibromochloromethane	10.87	129	40373	18.559	ug/l	100
54) 1,2-Dibromoethane	10.98	107	35591	18.716	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	43907	79.256	ug/l	100
56) Bromoform	12.10	173	28020	17.590	ug/l	100
58) 4-Methyl-2-Pentanone	9.95	43	212130	94.363	ug/l	100
59) 2-Hexanone	10.72	43	146740	91.505	ug/l	100
61) Tetrachloroethene	10.60	164	32262	18.832	ug/l	100
62) Toluene	10.12	91	153017	18.476	ug/l	100
64) Chlorobenzene	11.41	112	94722	18.483	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	37405	18.415	ug/l	100
66) Ethyl Benzene	11.48	91	160152	17.739	ug/l	100
67) m/p-Xylenes	11.60	106	121572	35.945	ug/l	100
68) o-Xylene	11.92	106	57749	17.775	ug/l	100
69) Styrene	11.94	104	100556	17.718	ug/l	100
70) Isopropylbenzene	12.22	105	157940	17.871	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	53317	18.812	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	47313m	19.315	ug/l	
73) Bromobenzene	12.50	156	42662	17.900	ug/l	100
74) n-propylbenzene	12.57	91	187725	17.707	ug/l	100
75) 2-Chlorotoluene	12.65	91	113050	17.892	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	134957	17.893	ug/l	100
77) t-1,4-Dichloro-2-butene	12.28	75	15291	17.204	ug/l	100
78) 4-Chlorotoluene	12.75	91	115892	17.790	ug/l	100
79) tert-butylbenzene	12.97	119	110183	17.362	ug/l	100
80) 1,2,4-Trimethylbenzene	13.01	105	129942	17.699	ug/l	100
81) sec-Butylbenzene	13.15	105	152309	17.423	ug/l	100
82) p-Isopropyltoluene	13.26	119	132846	17.141	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	74013	17.786	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	71108	17.484	ug/l	100
85) n-Butylbenzene	13.59	91	103095	16.007	ug/l	100
86) Hexachloroethane	13.85	117	26937	17.648	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	71832	18.023	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.25	75	8002	17.800	ug/l	100
89) 1,2,4-Trichlorobenzene	14.88	180	30359	15.436	ug/l	100
90) Hexachlorobutadiene	14.98	225	25348	17.412	ug/l	100
91) Naphthalene	15.10	128	63520	14.616	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	31384	15.983	ug/l	100

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

