

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057577.D
 Acq On : 30 Aug 2019 9:33
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 10:00:23 AM

Quant Time: Aug 30 23:38:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 30 23:13:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	87043	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	515015	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	450959	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	213997	26.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	88.10%
60) 4-Bromofluorobenzene	12.40	95	196624	26.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.33%
63) Toluene-d8	10.08	98	636263	28.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.97%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	97475	21.229	ug/l 100
3) Chloromethane	2.06	50	85312	13.557	ug/l 100
4) Vinyl Chloride	2.18	62	135457	16.527	ug/l 100
5) Bromomethane	2.56	94	125402	21.999	ug/l 100
6) Chloroethane	2.70	64	96716	17.323	ug/l 100
7) Trichlorofluoromethane	3.01	101	310966	22.125	ug/l 100
8) Diethyl Ether	3.40	74	100948	19.338	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	191344	23.711	ug/l 100
10) 1,1-Dichloroethene	3.72	96	168734	21.967	ug/l 100
11) Methyl Iodide	3.93	142	287406	33.958	ug/l 100
12) Methyl Acetate	4.31	43	85141	12.241	ug/l 100
13) Acrolein	3.60	56	54347	62.305	ug/l 100
14) Acrylonitrile	4.97	53	174126	71.073	ug/l 100
15) Acetone	3.81	58	104419	90.248	ug/l 100
16) Carbon Disulfide	4.03	76	166835	13.462	ug/l 100
17) Allyl chloride	4.30	41	116758m	12.466	ug/l
18) Methylene Chloride	4.53	84	93657	17.544	ug/l 100
19) trans-1,2-Dichloroethene	5.02	96	90832	17.873	ug/l 100
20) Diisopropyl ether	5.94	45	280573	13.866	ug/l 100
21) 1,1-Dichloroethane	5.83	63	172899	16.034	ug/l 100
22) cis-1,2-Dichloroethene	6.81	96	118498	19.061	ug/l 100
23) tert-Butyl Alcohol	4.80	59	65151	72.766	ug/l 100
24) Methyl tert-Butyl Ether	5.03	73	296349	17.633	ug/l 100
25) Chloroform	7.36	83	203619	18.397	ug/l 100
26) Cyclohexane	7.64	56	145619	15.239	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	141537	16.691	ug/l 100
30) 2-Butanone	6.82	43	241990	62.878	ug/l 100
31) 2,2-Dichloropropane	6.81	77	167105	17.209	ug/l 100
32) 1,1,1-Trichloroethane	7.56	97	187396	18.860	ug/l 100
33) Carbon Tetrachloride	7.76	117	155619	18.819	ug/l 100
34) Benzene	8.03	78	426153	17.073	ug/l 100
35) Methacrylonitrile	7.16	41	44421	11.595	ug/l 100
36) 1,2-Dichloroethane	8.11	62	161389	16.526	ug/l 100
37) Trichloroethene	8.82	130	121210	20.445	ug/l 100
38) Methylcyclohexane	9.07	83	174120	17.972	ug/l 100
39) 1,2-Dichloropropane	9.11	63	102944	14.879	ug/l 100
40) Dibromomethane	9.20	93	79984	18.148	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	160898	17.284	ug/l	100
42) Vinyl Acetate	5.88	43	1094898	63.042	ug/l	100
43) Ethyl Acetate	6.92	43	92793	12.335	ug/l	100
44) Isopropyl Acetate	8.16	43	182306	12.636	ug/l	100
45) 1,4-Dioxane	9.20	88	30563	334.819	ug/l	100
46) Methyl methacrylate	9.19	41	86629	12.604	ug/l	100
47) n-amyl Acetate	12.07	43	144228	12.266	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	154300	15.881	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	171062	16.087	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	108303	18.652	ug/l	100
51) Ethyl methacrylate	10.43	69	138815	14.896	ug/l	100
52) 1,3-Dichloropropane	10.70	76	174856	16.884	ug/l	100
53) Dibromochloromethane	10.90	129	116655	18.714	ug/l	100
54) 1,2-Dibromoethane	11.00	107	110621	18.482	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	162791	69.659	ug/l	100
56) Bromoform	12.13	173	73303	19.277	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	510323	63.349	ug/l	100
59) 2-Hexanone	10.75	43	355079	63.623	ug/l	100
61) Tetrachloroethene	10.63	164	117504	22.234	ug/l	100
62) Toluene	10.15	91	487463	18.138	ug/l	100
64) Chlorobenzene	11.43	112	297686	19.845	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	113306	19.880	ug/l	100
66) Ethyl Benzene	11.51	91	531125	18.334	ug/l	100
67) m/p-Xylenes	11.62	106	398968	39.052	ug/l	100
68) o-Xylene	11.95	106	197502	19.648	ug/l	100
69) Styrene	11.96	104	311834	19.217	ug/l	100
70) Isopropylbenzene	12.25	105	544903	20.050	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	132775	17.443	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	113128m	16.512	ug/l	100
73) Bromobenzene	12.53	156	120565	21.381	ug/l	100
74) n-propylbenzene	12.59	91	555828	18.181	ug/l	100
75) 2-Chlorotoluene	12.67	91	336241	18.684	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	445746	19.979	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	29376	12.466	ug/l	100
78) 4-Chlorotoluene	12.77	91	321877	18.649	ug/l	100
79) tert-butylbenzene	12.99	119	398583	20.787	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	431114	20.556	ug/l	100
81) sec-Butylbenzene	13.17	105	503600	20.028	ug/l	100
82) p-Isopropyltoluene	13.29	119	437802	20.421	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	185268	20.961	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	175887	20.434	ug/l	100
85) n-Butylbenzene	13.62	91	319510	17.483	ug/l	100
86) Hexachloroethane	13.88	117	74318	17.897	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	186959	21.543	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18051	14.326	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	49789	15.353	ug/l	100
90) Hexachlorobutadiene	15.01	225	59700	23.759	ug/l	100
91) Naphthalene	15.13	128	148456	14.558	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	50302	15.711	ug/l	100

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

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