

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055725.D
 Acq On : 22 May 2019 17:47
 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
 5/23/2019 12:31:00 PM

Quant Time: May 23 05:47:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	58537	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	320703	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	282227	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	114548	25.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.57%
60) 4-Bromofluorobenzene	12.40	95	131441	30.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.50%
63) Toluene-d8	10.09	98	385920	28.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	121490	39.562	ug/l 98
3) Chloromethane	2.06	50	173778	40.029	ug/l 98
4) Vinyl Chloride	2.19	62	182920	49.883	ug/l 99
5) Bromomethane	2.54	94	104594	50.054	ug/l 100
6) Chloroethane	2.69	64	109229	52.623	ug/l 96
7) Trichlorofluoromethane	3.01	101	227855	43.622	ug/l 99
8) Diethyl Ether	3.40	74	102716	47.360	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	145864	43.910	ug/l 99
10) 1,1-Dichloroethene	3.72	96	151762	47.928	ug/l 99
11) Methyl Iodide	3.94	142	220043	44.992	ug/l 98
12) Methyl Acetate	4.33	43	180176	40.726	ug/l 99
13) Acrolein	3.60	56	126254	470.952	ug/l 98
14) Acrylonitrile	4.99	53	429559	260.072	ug/l 100
15) Acetone	3.82	58	131360	309.709	ug/l 99
16) Carbon Disulfide	4.04	76	432947	49.368	ug/l 100
17) Allyl chloride	4.31	41	275730	41.438	ug/l 98
18) Methylene Chloride	4.54	84	172951	44.860	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	163277	47.463	ug/l 98
20) Diisopropyl ether	5.96	45	531123	40.085	ug/l 96
21) 1,1-Dichloroethane	5.84	63	302573	43.141	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	190781	47.575	ug/l 99
23) tert-Butyl Alcohol	4.81	59	187019	407.282	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	518975	49.784	ug/l 99
25) Chloroform	7.37	83	299254	45.013	ug/l 100
26) Cyclohexane	7.65	56	278459	44.934	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	226740	45.598	ug/l 98
30) 2-Butanone	6.84	43	601407	283.139	ug/l 100
31) 2,2-Dichloropropane	6.82	77	257777	52.389	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	264552	47.306	ug/l 100
33) Carbon Tetrachloride	7.77	117	235791	49.556	ug/l 99
34) Benzene	8.04	78	694264	46.438	ug/l # 94
35) Methacrylonitrile	7.17	41	112435	49.517	ug/l 99
36) 1,2-Dichloroethane	8.12	62	225275	42.982	ug/l 100
37) Trichloroethene	8.83	130	192695	50.051	ug/l 98
38) Methylcyclohexane	9.08	83	280439	51.049	ug/l 99
39) 1,2-Dichloropropane	9.12	63	187593	44.445	ug/l 97
40) Dibromomethane	9.21	93	120376	48.514	ug/l 97

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

41) Bromodichloromethane	9.40	83	245210	47.907	ug/l	99
42) Vinyl Acetate	5.90	43	2334131	237.735	ug/l	100
43) Ethyl Acetate	6.93	43	229520	52.385	ug/l #	100
44) Isopropyl Acetate	8.17	43	393270	50.414	ug/l #	87
45) 1,4-Dioxane	9.20	88	73260	1567.706	ug/l	96
46) Methyl methacrylate	9.20	41	182230	49.492	ug/l	99
47) n-amyl Acetate	12.07	43	321547	55.068	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	277375	53.639	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	300615	50.808	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	173315	50.323	ug/l	98
51) Ethyl methacrylate	10.43	69	283286	57.469	ug/l	98
52) 1,3-Dichloropropane	10.71	76	287551	47.562	ug/l	100
53) Dibromochloromethane	10.90	129	207287	56.262	ug/l	98
54) 1,2-Dibromoethane	11.00	107	181764	53.309	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	546708	345.779	ug/l	100
56) Bromoform	12.13	173	170693	66.732	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	1159790	258.992	ug/l	100
59) 2-Hexanone	10.75	43	829259	282.698	ug/l	99
61) Tetrachloroethene	10.63	164	189742	51.538	ug/l	97
62) Toluene	10.16	91	761498	48.052	ug/l	99
64) Chlorobenzene	11.43	112	459654	48.712	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	183730	51.208	ug/l	98
66) Ethyl Benzene	11.51	91	827792	48.696	ug/l	99
67) m/p-Xylenes	11.62	106	629487	100.833	ug/l	100
68) o-Xylene	11.95	106	308541	49.741	ug/l	100
69) Styrene	11.96	104	520606	53.163	ug/l	99
70) Isopropylbenzene	12.25	105	808703	49.544	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	248702	53.634	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	205595m	50.744	ug/l	
73) Bromobenzene	12.53	156	215271	54.103	ug/l	99
74) n-propylbenzene	12.59	91	884919	48.880	ug/l	100
75) 2-Chlorotoluene	12.67	91	537051	48.331	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	673722	50.026	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	84890	71.233	ug/l	99
78) 4-Chlorotoluene	12.77	91	521367	49.492	ug/l	99
79) tert-butylbenzene	12.99	119	587037	50.393	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	667572	51.358	ug/l	99
81) sec-Butylbenzene	13.17	105	753609	49.416	ug/l	100
82) p-Isopropyltoluene	13.29	119	692791	53.504	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	345983	53.852	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	334384	55.178	ug/l	99
85) n-Butylbenzene	13.61	91	551950	55.372	ug/l	99
86) Hexachloroethane	13.87	117	136080	59.061	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	346056	53.788	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	46724	64.021	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	192109	70.384	ug/l	100
90) Hexachlorobutadiene	15.01	225	134297	59.617	ug/l	98
91) Naphthalene	15.13	128	527001	78.971	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	197937	68.919	ug/l	98

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

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