

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055250.D
 Acq On : 25 Apr 2019 17:59
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMdadoda
 4/26/2019 10:52:36 AM

Quant Time: Apr 26 04:45:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 04:33:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	70086	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	365806	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	311453	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	164560	30.78	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.60%
60) 4-Bromofluorobenzene	12.40	95	130844	27.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.23%
63) Toluene-d8	10.09	98	463208	31.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	21935	5.453 ug/l	97
3) Chloromethane	2.06	50	30781	5.593 ug/l	98
4) Vinyl Chloride	2.19	62	23895	5.059 ug/l	99
5) Bromomethane	2.56	94	14544	5.335 ug/l	88
6) Chloroethane	2.70	64	13906	5.267 ug/l	97
7) Trichlorofluoromethane	3.01	101	35778	5.805 ug/l	91
8) Diethyl Ether	3.41	74	13693	6.584 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	22188	6.363 ug/l	86
10) 1,1-Dichloroethene	3.74	96	20456	6.324 ug/l	95
11) Methyl Iodide	3.95	142	29974	6.059 ug/l	96
12) Methyl Acetate	4.33	43	28174	6.717 ug/l	91
13) Acrolein	3.61	56	7857	24.875 ug/l	86
14) Acrylonitrile	5.00	53	47463	28.460 ug/l	98
15) Acetone	3.82	58	12332	30.999 ug/l	87
16) Carbon Disulfide	4.06	76	55198	5.294 ug/l	96
17) Allyl chloride	4.33	41	41442	5.382 ug/l	98
18) Methylene Chloride	4.55	84	26584	5.724 ug/l	95
19) trans-1,2-Dichloroethene	5.04	96	22922m	5.629 ug/l	
20) Diisopropyl ether	5.96	45	83602	5.268 ug/l	91
21) 1,1-Dichloroethane	5.85	63	45953	5.480 ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	26112	5.546 ug/l	94
23) tert-Butyl Alcohol	4.79	59	10828m	38.766 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	63698	5.868 ug/l #	80
25) Chloroform	7.37	83	42420	5.308 ug/l	94
26) Cyclohexane	7.65	56	40076	5.248 ug/l #	99
29) 1,1-Dichloropropene	7.79	75	30935	5.387 ug/l	98
30) 2-Butanone	6.84	43	59383	29.698 ug/l #	94
31) 2,2-Dichloropropane	6.83	77	29414	5.495 ug/l #	86
32) 1,1,1-Trichloroethane	7.57	97	34969	5.676 ug/l	100
33) Carbon Tetrachloride	7.77	117	29133	5.517 ug/l	97
34) Benzene	8.04	78	94645	5.531 ug/l #	68
35) Methacrylonitrile	7.17	41	11986	4.975 ug/l	96
36) 1,2-Dichloroethane	8.12	62	34862	5.906 ug/l	98
37) Trichloroethene	8.84	130	24799	5.719 ug/l	96
38) Methylcyclohexane	9.08	83	33635	5.144 ug/l	97
39) 1,2-Dichloropropane	9.12	63	26770	5.607 ug/l	96
40) Dibromomethane	9.21	93	16300	6.007 ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055250.D
 Acq On : 25 Apr 2019 17:59
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMdadoda
 4/26/2019 10:52:36 AM

Quant Time: Apr 26 04:45:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 04:33:00 2019
 Response via : Initial Calibration

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

41) Bromodichloromethane	9.40	83	31693	5.695	ug/l	93
42) Vinyl Acetate	5.90	43	288956	28.844	ug/l	100
43) Ethyl Acetate	6.94	43	23238	5.552	ug/l #	82
44) Isopropyl Acetate	8.17	43	47693	6.625	ug/l	97
45) 1,4-Dioxane	9.20	88	4472	114.973	ug/l #	83
46) Methyl methacrylate	9.20	41	19519	5.367	ug/l	98
47) n-amyl Acetate	12.07	43	26814	5.197	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	26990	5.160	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	33159	5.230	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	21085	5.706	ug/l	98
51) Ethyl methacrylate	10.43	69	27413	6.053	ug/l	94
52) 1,3-Dichloropropane	10.71	76	37683	5.833	ug/l	97
53) Dibromochloromethane	10.90	129	20213	5.311	ug/l	100
54) 1,2-Dibromoethane	11.00	107	19630	5.614	ug/l	94
55) 2-Chloroethyl vinyl ether	9.69	63	31658	18.116	ug/l	97
56) Bromoform	12.13	173	12072	4.954	ug/l #	95
58) 4-Methyl-2-Pentanone	9.99	43	125669	32.190	ug/l	99
59) 2-Hexanone	10.75	43	80756	32.779	ug/l	96
61) Tetrachloroethene	10.63	164	23184	5.670	ug/l	94
62) Toluene	10.16	91	98905	5.701	ug/l	98
64) Chlorobenzene	11.43	112	54500	5.234	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	20988	5.589	ug/l	96
66) Ethyl Benzene	11.51	91	100618	5.428	ug/l	98
67) m/p-Xylenes	11.62	106	69930	10.169	ug/l	97
68) o-Xylene	11.95	106	34743	5.075	ug/l	94
69) Styrene	11.96	104	51510	4.883	ug/l	99
70) Isopropylbenzene	12.25	105	91236	5.020	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	27004	6.245	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	26410m	7.406	ug/l	
73) Bromobenzene	12.53	156	21298	4.965	ug/l	96
74) n-propylbenzene	12.59	91	96473	4.765	ug/l	100
75) 2-Chlorotoluene	12.67	91	61474	5.009	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	74384	5.076	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	5238	5.689	ug/l	95
78) 4-Chlorotoluene	12.77	91	51987	4.441	ug/l	99
79) tert-butylbenzene	12.99	119	64535	5.077	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	65251	4.514	ug/l	99
81) sec-Butylbenzene	13.17	105	83133	4.918	ug/l	95
82) p-Isopropyltoluene	13.29	119	65683	4.631	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	29803	4.192	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	25170	3.724	ug/l	97
85) n-Butylbenzene	13.61	91	38799	3.474	ug/l	98
86) Hexachloroethane	13.87	117	11098	4.813	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	31158	4.450	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.26	75	3480	5.985	ug/l #	81
89) 1,2,4-Trichlorobenzene	14.91	180	7515	2.458	ug/l	98
90) Hexachlorobutadiene	15.01	225	11683	5.148	ug/l	91
91) Naphthalene	15.13	128	18176	2.786	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	8679	2.820	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
Data File : VN055250.D
Acq On : 25 Apr 2019 17:59
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

MMdadoda
4/26/2019 10:52:36 AM

Quant Time: Apr 26 04:45:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 26 04:33:00 2019
Response via : Initial Calibration

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

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

