

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122921\
 Data File : VN070376.D
 Acq On : 30 Dec 2021 4:36
 Operator : JC/MD
 Sample : M5007-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 30 07:18:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 27 18:47:12 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

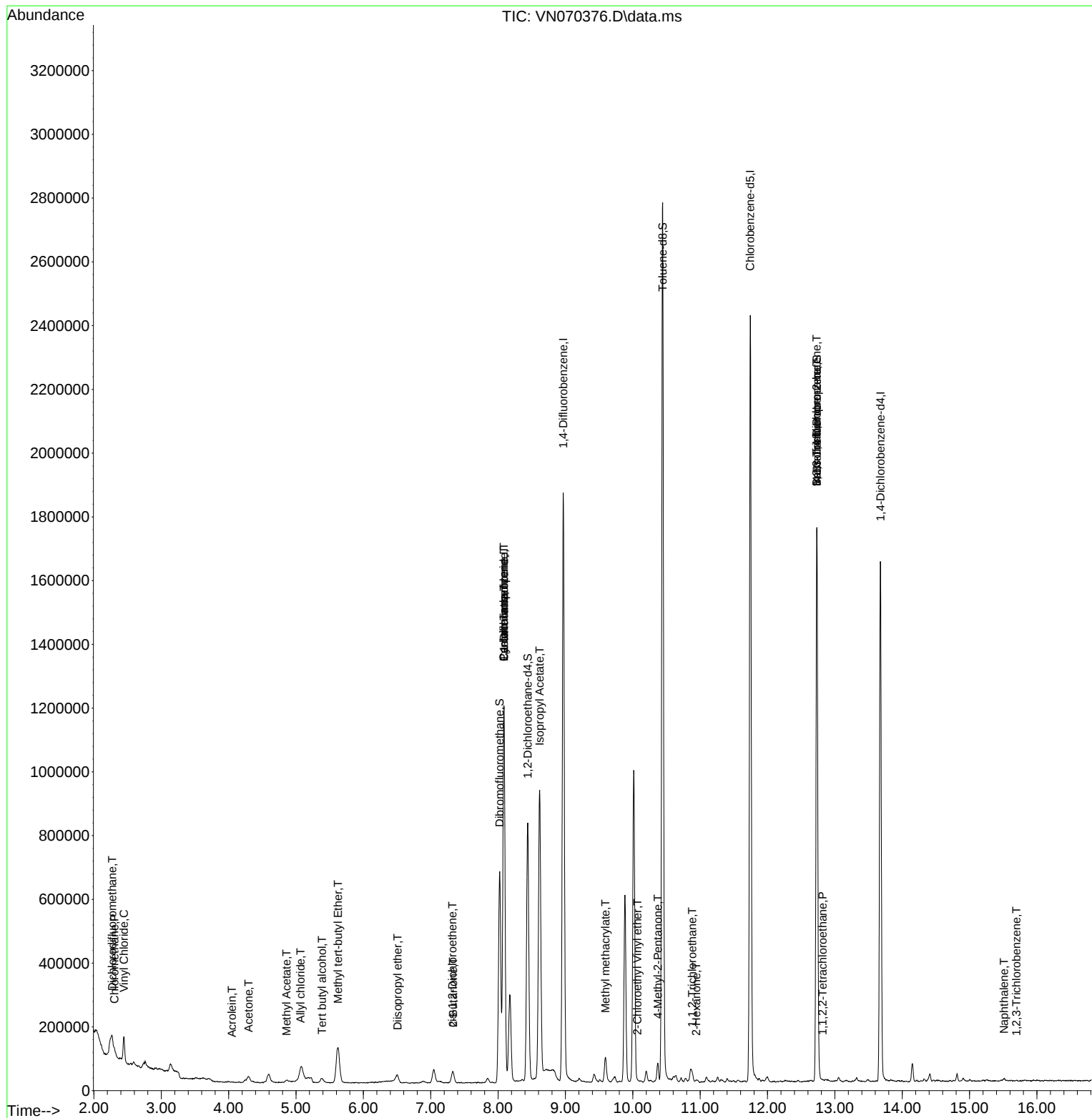
Internal Standards						
1) Pentafluorobenzene	8.088	168	897970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1581326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1370813	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	447850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	693153	53.687	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 107.380%			
35) Dibromofluoromethane	8.024	113	490728	51.289	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 102.580%			
50) Toluene-d8	10.443	98	1903029	48.689	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 97.380%			
62) 4-Bromofluorobenzene	12.733	95	631592	44.740	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 89.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.271	85	3898	0.383	ug/l	96
3) Chloromethane	2.303	50	4360	0.315	ug/l	91
4) Vinyl Chloride	2.445	62	12862	1.020	ug/l #	88
11) Tert butyl alcohol	5.385	59	23259	10.819	ug/l #	71
13) Acrolein	4.047	56	631	0.362	ug/l #	78
14) Allyl chloride	5.068	41	13055	0.630	ug/l #	54
16) Acetone	4.296	43	32489	3.876	ug/l	100
18) Methyl Acetate	4.859	43	6219	0.257	ug/l	91
19) Methyl tert-butyl Ether	5.624	73	162572	4.787	ug/l #	88
22) Diisopropyl ether	6.506	45	31423	0.778	ug/l #	87
25) 2-Butanone	7.332	43	4254	0.403	ug/l #	68
27) cis-1,2-Dichloroethene	7.324	96	15511	1.342	ug/l	94
31) Cyclohexane	8.088	56	22404	1.100	ug/l #	2
36) 1,1-Dichloropropene	8.086	75	73918	4.670	ug/l #	49
38) Carbon Tetrachloride	8.086	117	89704	5.935	ug/l #	17
43) Isopropyl Acetate	8.617	43	229273	7.088	ug/l #	55
48) Methyl methacrylate	9.593	41	22034	1.428	ug/l #	31
51) 4-Methyl-2-Pentanone	10.371	43	7313	0.360	ug/l #	82
55) 1,1,2-Trichloroethane	10.880	97	6758	0.582	ug/l #	28
58) 2-Chloroethyl Vinyl ether	10.068	63	251	18.560	ug/l #	45
59) 2-Hexanone	10.945	43	4330	0.292	ug/l	63
71) Bromoform	12.731	173	3046	0.395	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.817	83	85	0.453	ug/l #	93
76) 1,2,3-Trichloropropane	12.731	75	338367	26.859	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	338367	92.309	ug/l #	5
95) Naphthalene	15.512	128	5858	2.074	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.697	180	476	0.892	ug/l #	76

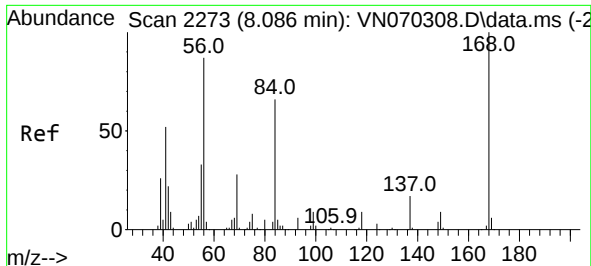
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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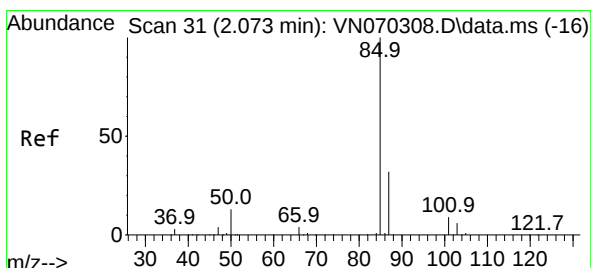
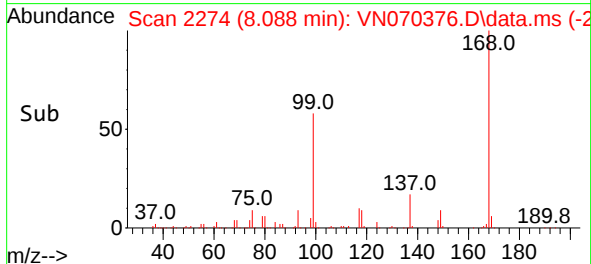
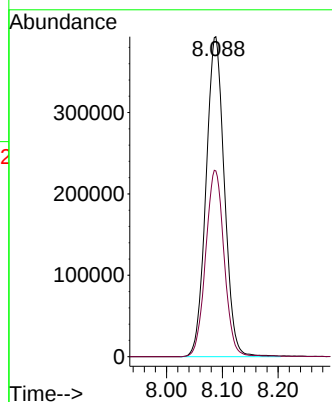
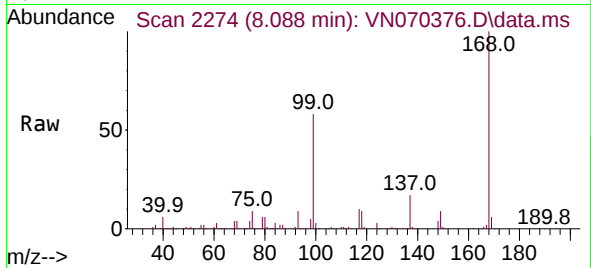




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

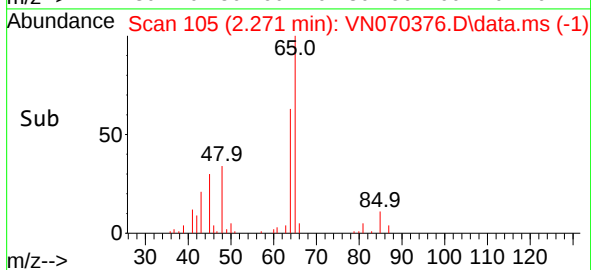
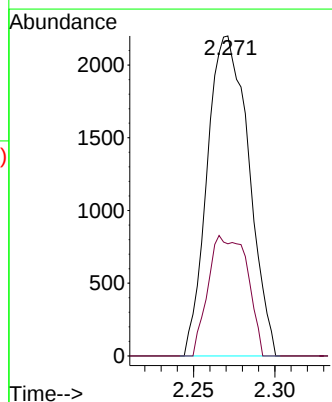
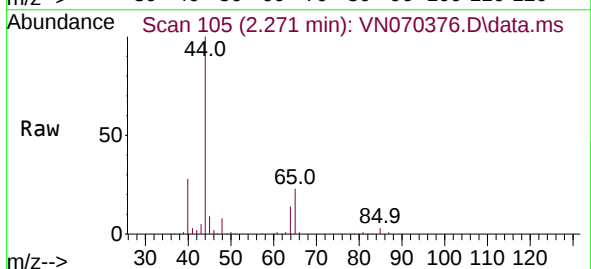
Instrument :
MSVOA_N
ClientSampleId :

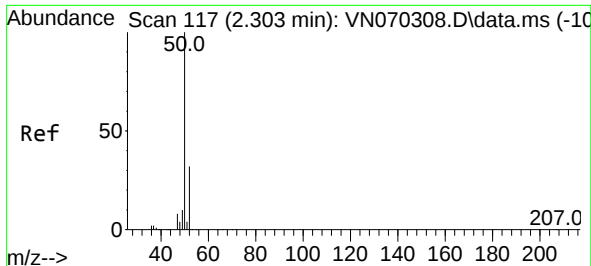
Tgt Ion:168 Resp: 897970
Ion Ratio Lower Upper
168 100
99 58.0 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.383 ug/l
RT: 2.271 min Scan# 105
Delta R.T. 0.198 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 85 Resp: 3898
Ion Ratio Lower Upper
85 100
87 35.0 16.3 48.9

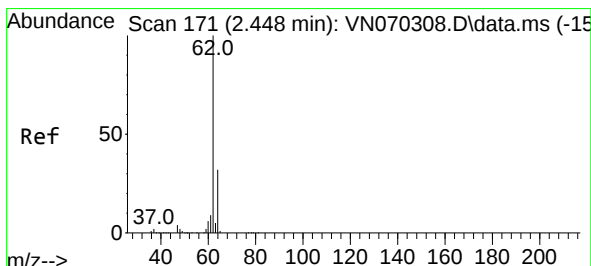
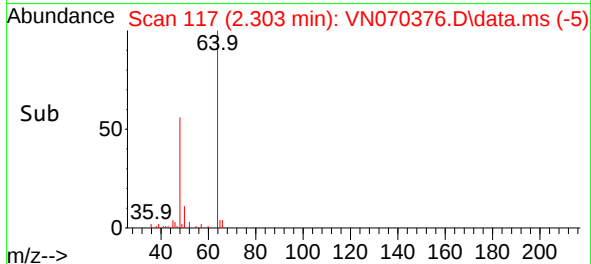
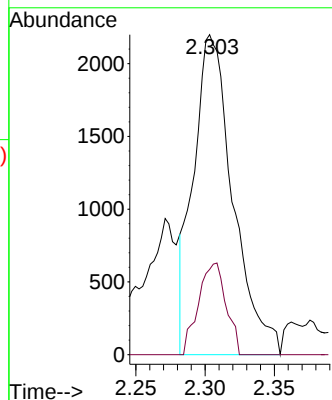
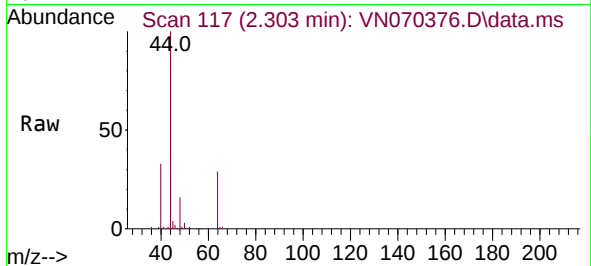




#3
Chloromethane
Concen: 0.315 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

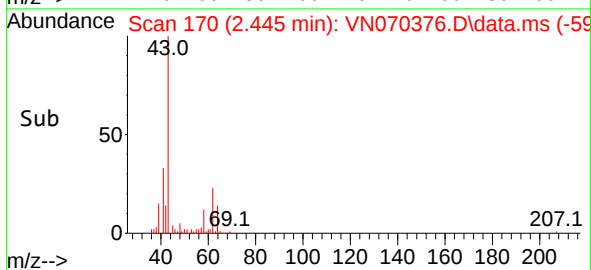
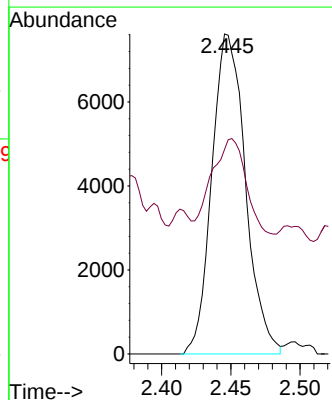
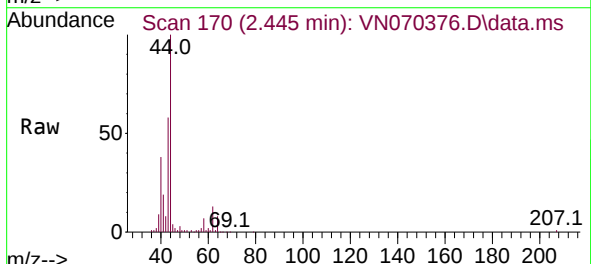
Instrument :
MSVOA_N
ClientSampleId :

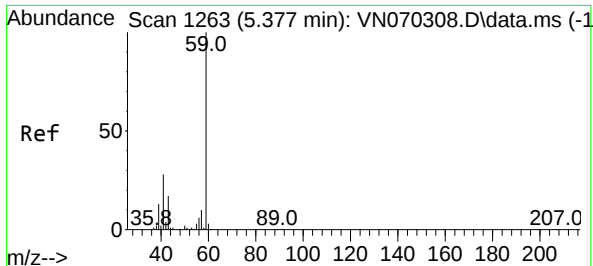
Tgt Ion: 50 Resp: 4360
Ion Ratio Lower Upper
50 100
52 26.6 25.4 38.0



#4
Vinyl Chloride
Concen: 1.020 ug/l
RT: 2.445 min Scan# 170
Delta R.T. -0.003 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 62 Resp: 12862
Ion Ratio Lower Upper
62 100
64 25.4 25.8 38.6#

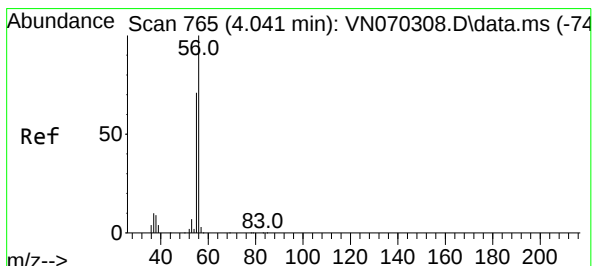
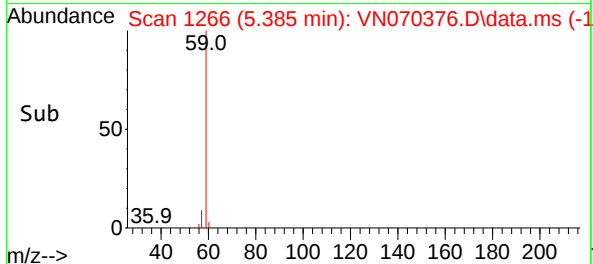
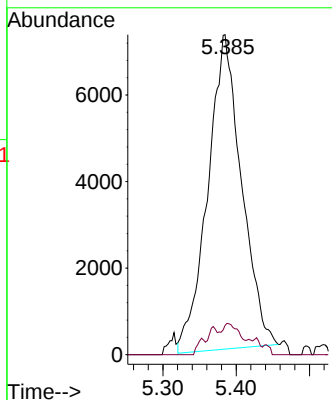
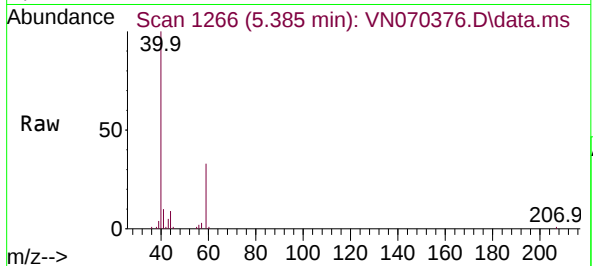




#11
Tert butyl alcohol
Concen: 10.819 ug/l
RT: 5.385 min Scan# 11
Delta R.T. 0.008 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

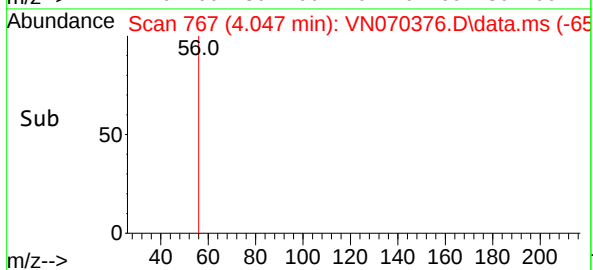
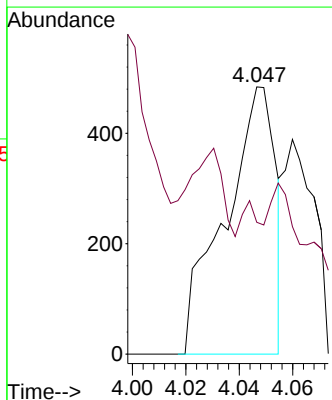
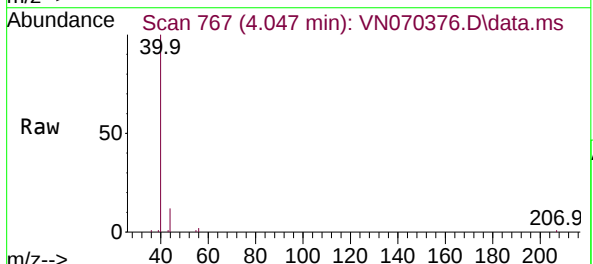
Instrument :
MSVOA_N
ClientSampleId :

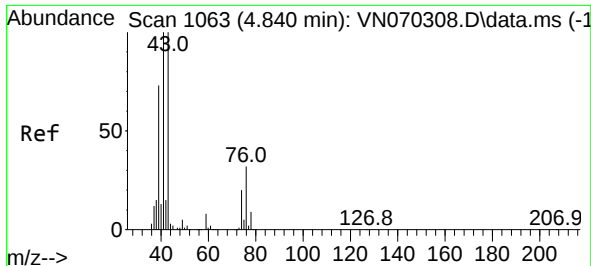
Tgt Ion: 59 Resp: 23259
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.362 ug/l
RT: 4.047 min Scan# 767
Delta R.T. 0.006 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 56 Resp: 631
Ion Ratio Lower Upper
56 100
55 52.3 56.6 85.0#





#14

Allyl chloride

Concen: 0.630 ug/l

RT: 5.068 min Scan# 1148

Delta R.T. 0.228 min

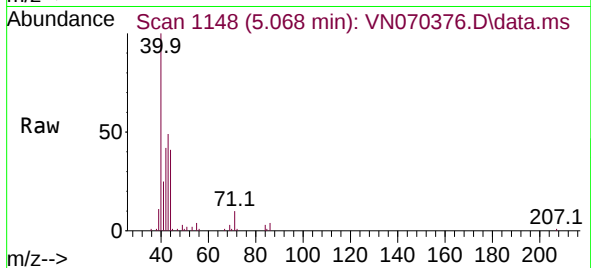
Lab File: VN070376.D

Acq: 30 Dec 2021 4:36

Instrument :

MSVOA_N

ClientSampleId :



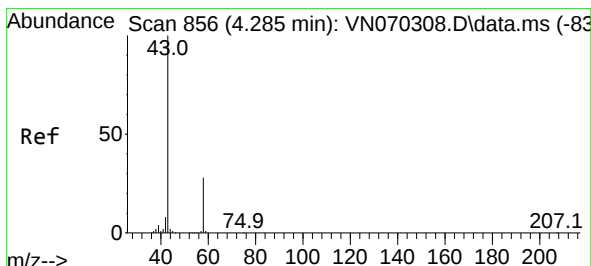
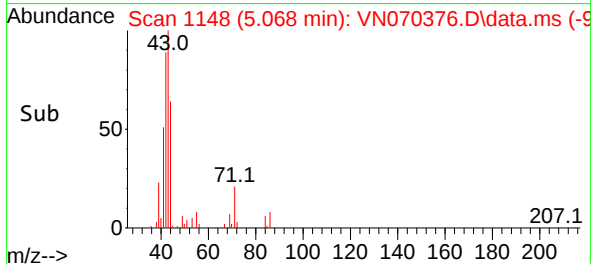
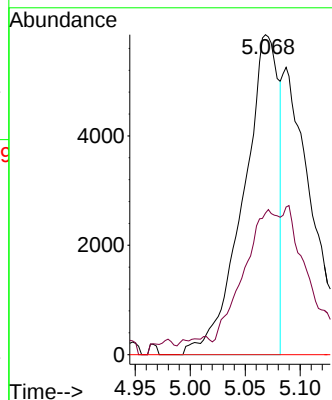
Tgt Ion: 41 Resp: 13055

Ion Ratio Lower Upper

41 100

39 40.8 61.2 91.8#

76 0.0 26.0 39.0#



#16

Acetone

Concen: 3.876 ug/l

RT: 4.296 min Scan# 860

Delta R.T. 0.011 min

Lab File: VN070376.D

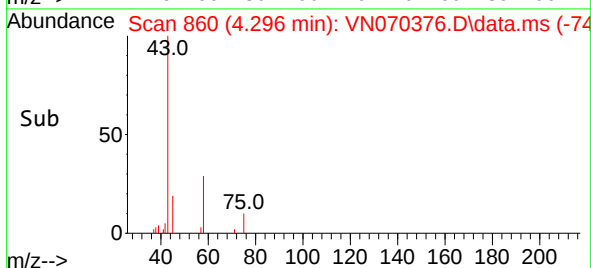
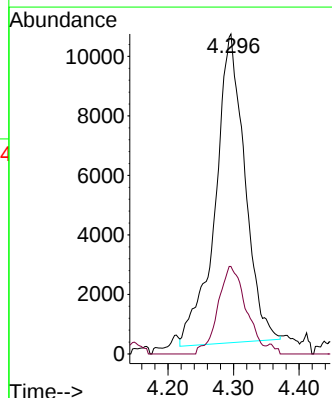
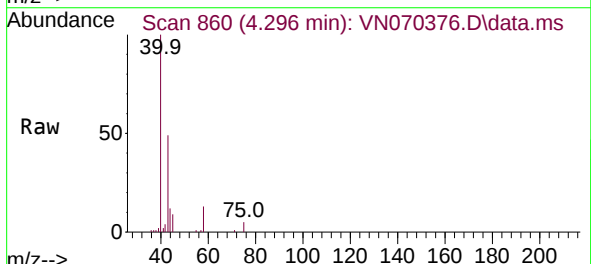
Acq: 30 Dec 2021 4:36

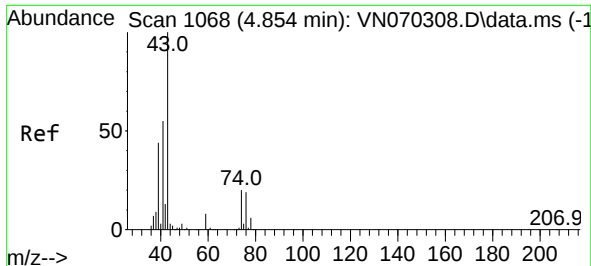
Tgt Ion: 43 Resp: 32489

Ion Ratio Lower Upper

43 100

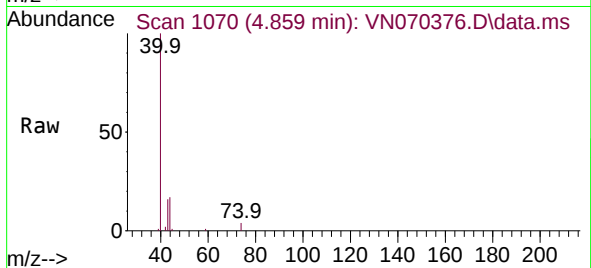
58 28.7 23.1 34.7



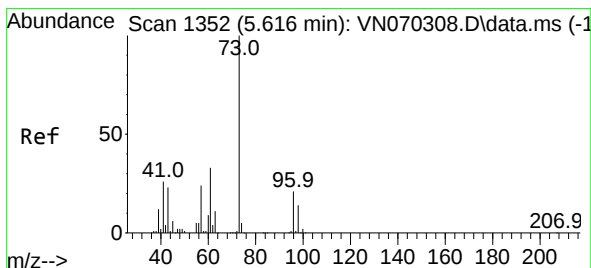
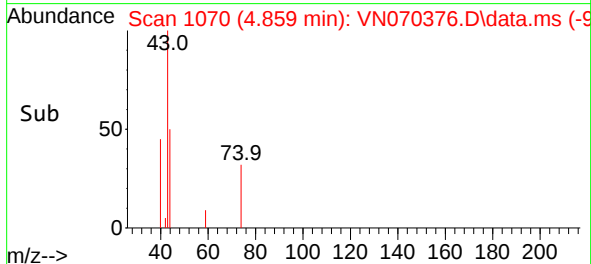
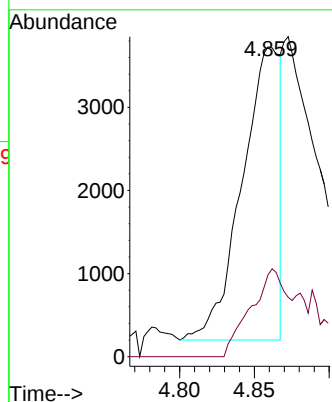


#18
Methyl Acetate
Concen: 0.257 ug/l
RT: 4.859 min Scan# 1068
Delta R.T. 0.005 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Instrument :
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ClientSampleId :

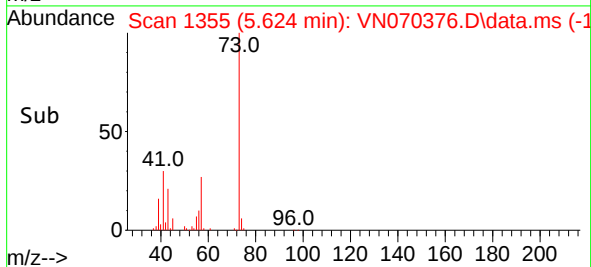
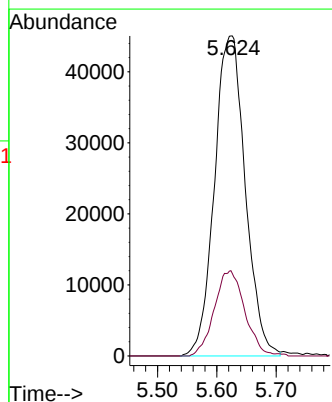
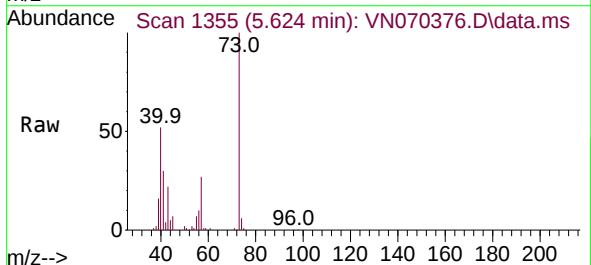


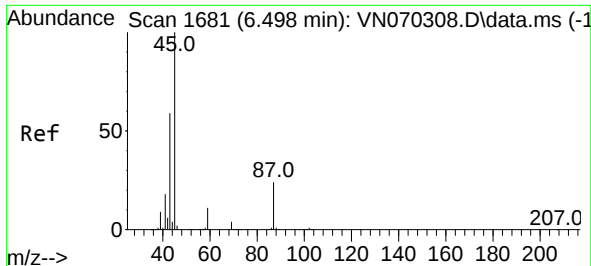
Tgt Ion: 43 Resp: 6219
Ion Ratio Lower Upper
43 100
74 28.5 19.4 29.2



#19
Methyl tert-butyl Ether
Concen: 4.787 ug/l
RT: 5.624 min Scan# 1355
Delta R.T. 0.008 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

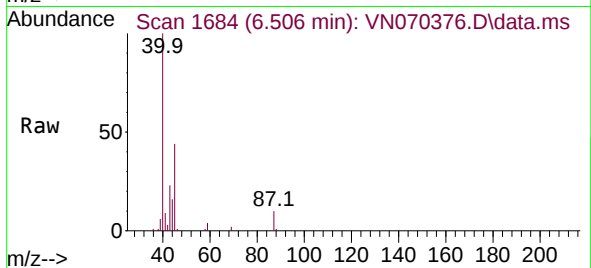
Tgt Ion: 73 Resp: 162572
Ion Ratio Lower Upper
73 100
57 26.7 16.8 25.2#



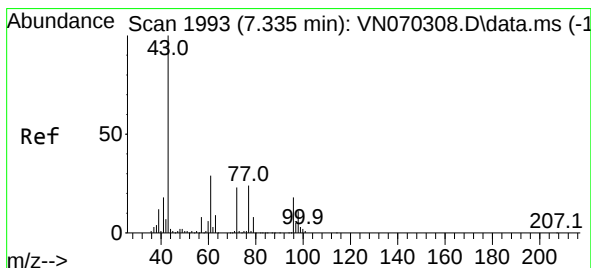
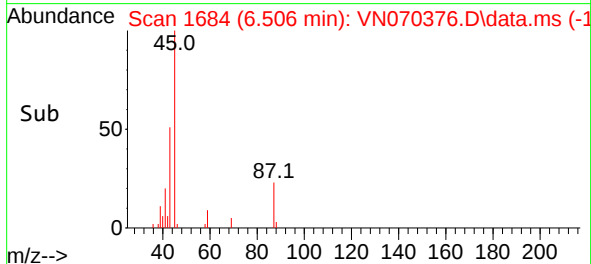
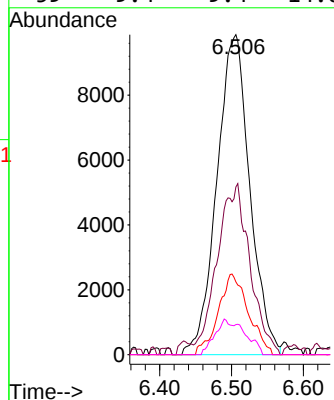


#22
Diisopropyl ether
Concen: 0.778 ug/l
RT: 6.506 min Scan# 1
Delta R.T. 0.008 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

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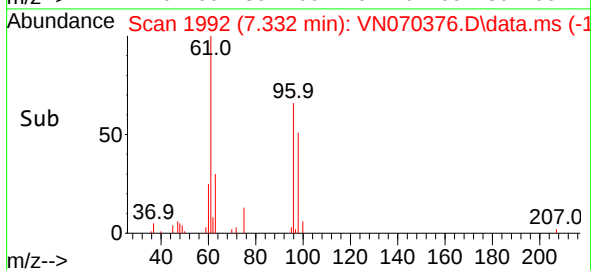
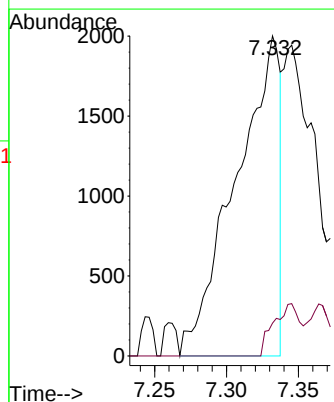
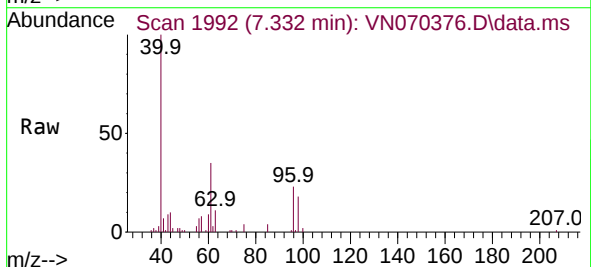


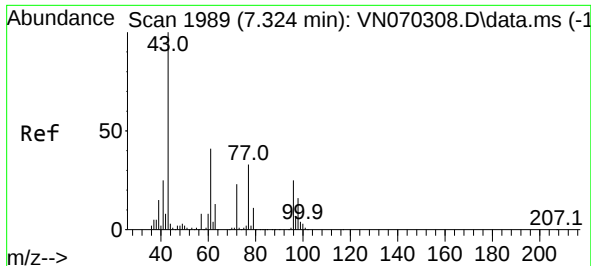
Tgt Ion	Ratio	Lower	Upper
45	100		
43	52.4	51.7	77.5
87	22.8	23.2	34.8#
59	9.4	9.4	14.0



#25
2-Butanone
Concen: 0.403 ug/l
RT: 7.332 min Scan# 1992
Delta R.T. -0.003 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	10.2	21.7	32.5#





#27

cis-1,2-Dichloroethene

Concen: 1.342 ug/l

RT: 7.324 min Scan# 1989

Delta R.T. -0.000 min

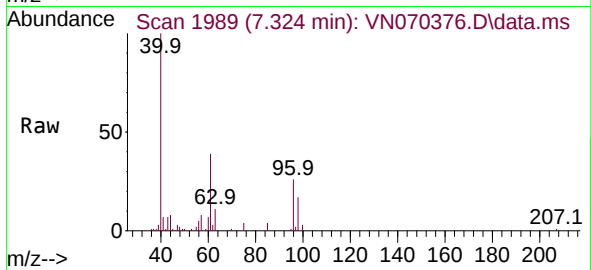
Lab File: VN070376.D

Acq: 30 Dec 2021 4:36

Instrument :

MSVOA_N

ClientSampleId :



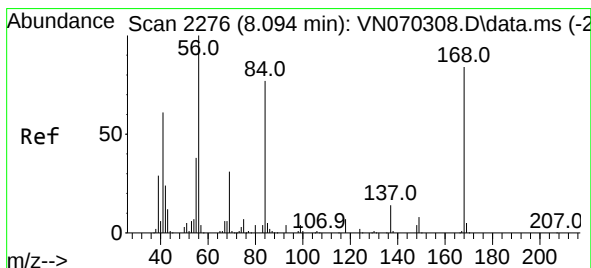
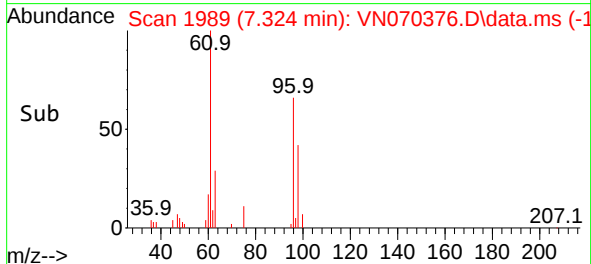
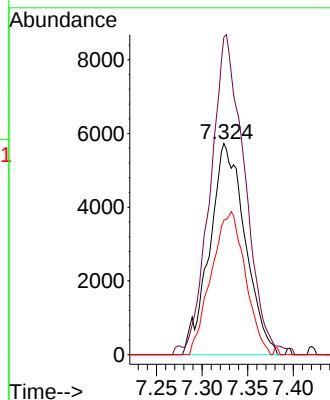
Tgt Ion: 96 Resp: 15511

Ion Ratio Lower Upper

96 100

61 147.5 0.0 275.0

98 64.7 0.0 129.6



#31

Cyclohexane

Concen: 1.100 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.006 min

Lab File: VN070376.D

Acq: 30 Dec 2021 4:36

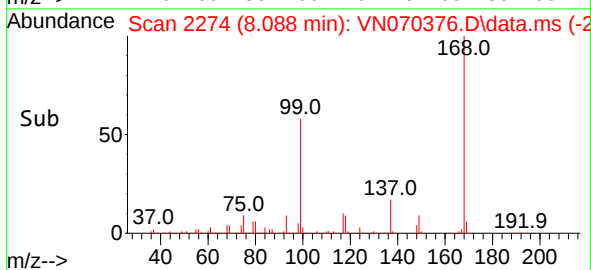
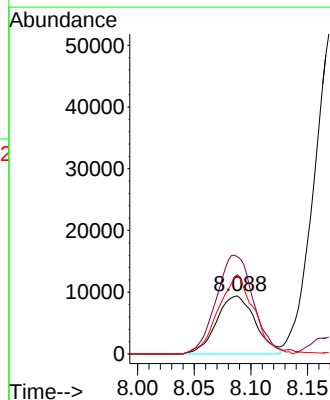
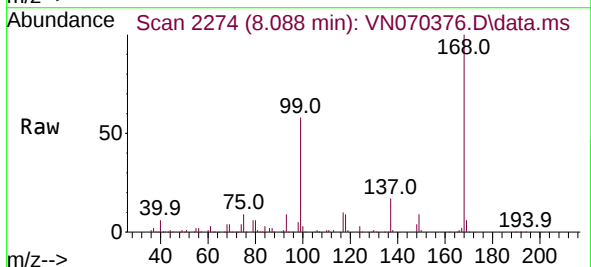
Tgt Ion: 56 Resp: 22404

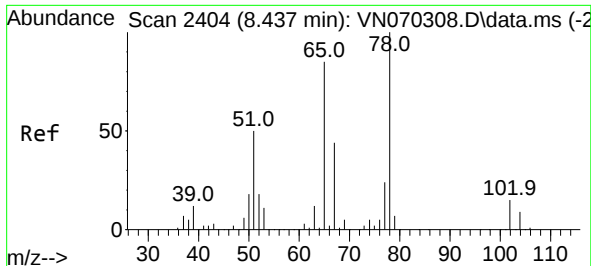
Ion Ratio Lower Upper

56 100

69 167.5 27.1 40.7#

84 137.1 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 53.687 ug/l

RT: 8.440 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN070376.D

Acq: 30 Dec 2021 4:36

Instrument :

MSVOA_N

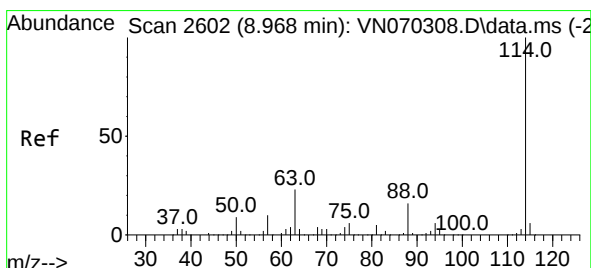
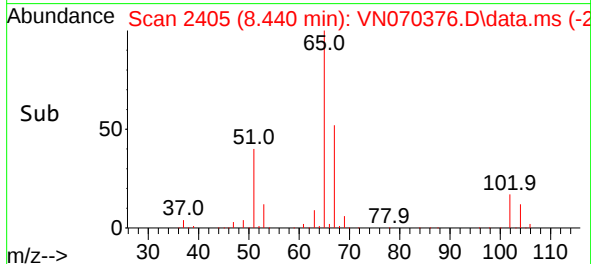
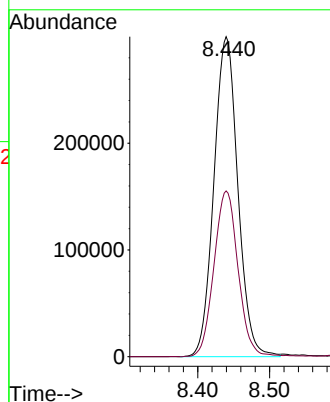
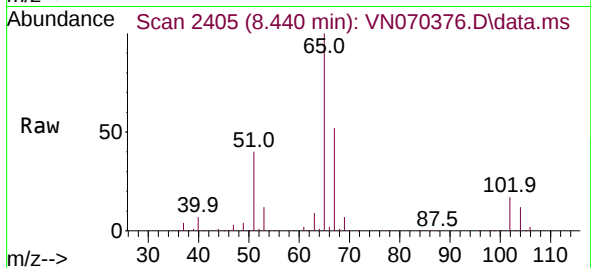
ClientSampleId :

Tgt Ion: 65 Resp: 693153

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN070376.D

Acq: 30 Dec 2021 4:36

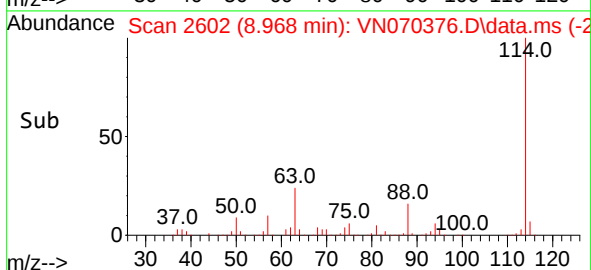
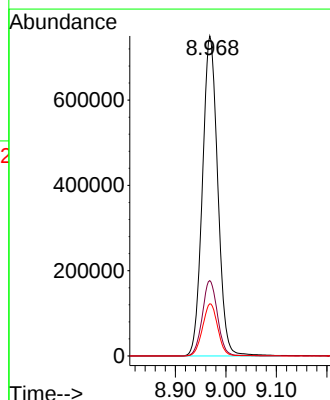
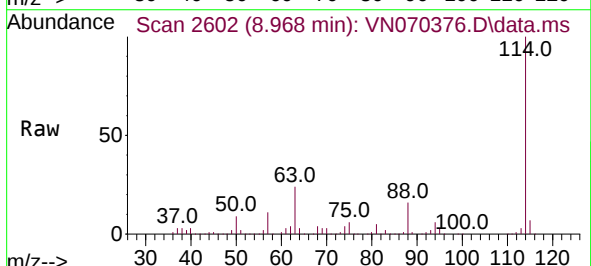
Tgt Ion: 114 Resp: 1581326

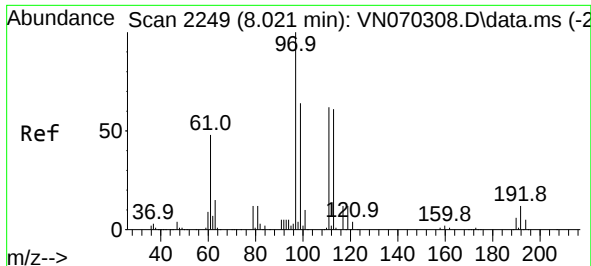
Ion Ratio Lower Upper

114 100

63 23.5 0.0 37.8

88 16.3 0.0 27.4

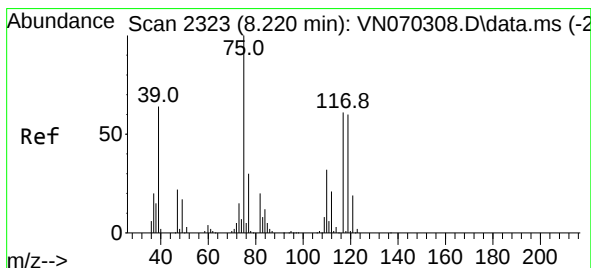
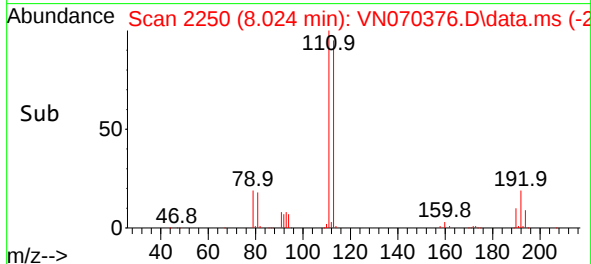
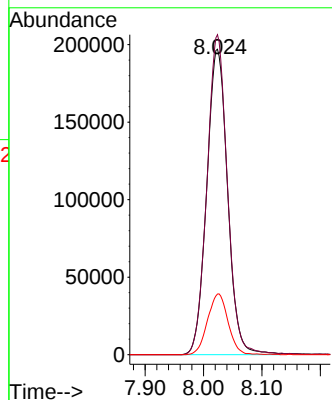
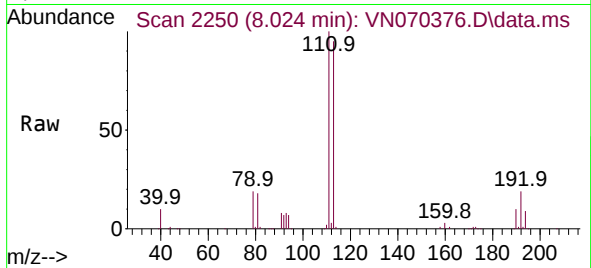




#35
Dibromofluoromethane
Concen: 51.289 ug/l
RT: 8.024 min Scan# 21
Delta R.T. 0.003 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

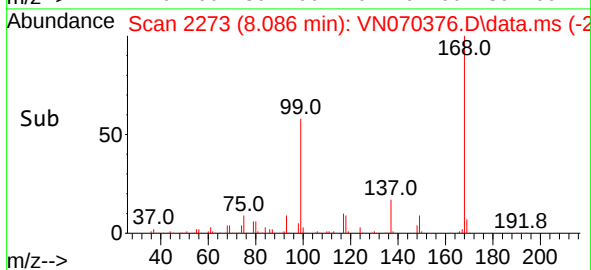
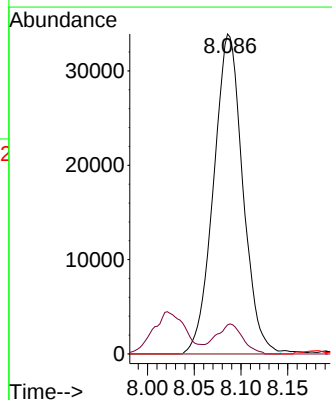
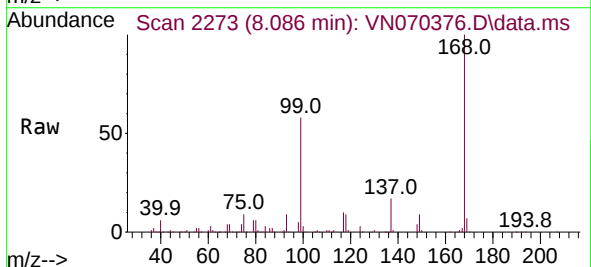
Instrument :
MSVOA_N
ClientSampleId :

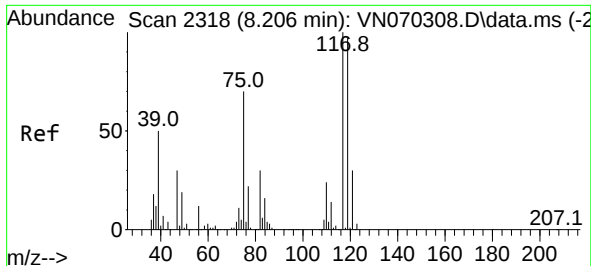
Tgt Ion:113 Resp: 490728
Ion Ratio Lower Upper
113 100
111 102.3 82.2 123.2
192 19.5 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.670 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.134 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

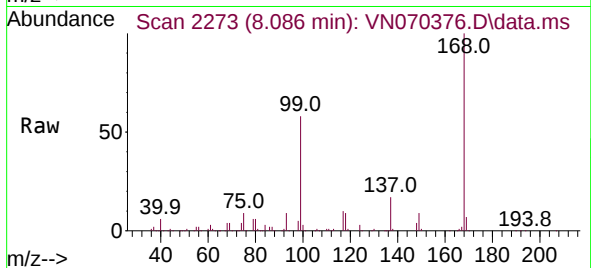
Tgt Ion: 75 Resp: 73918
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.0 24.4 36.6#



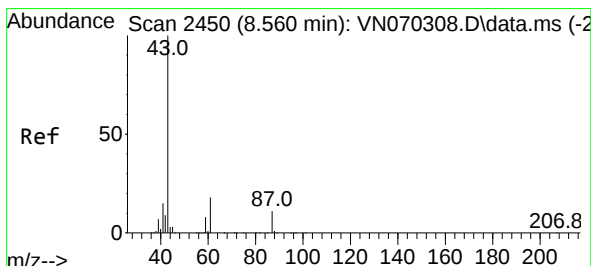
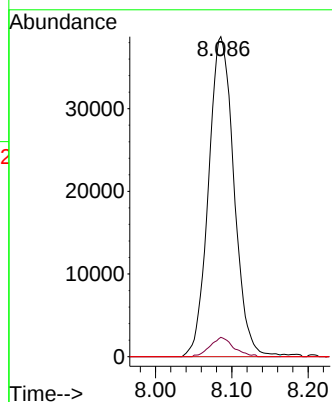
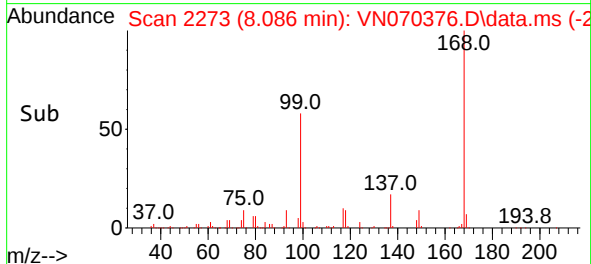


#38
Carbon Tetrachloride
Concen: 5.935 ug/l
RT: 8.086 min Scan# 2470
Delta R.T. -0.120 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

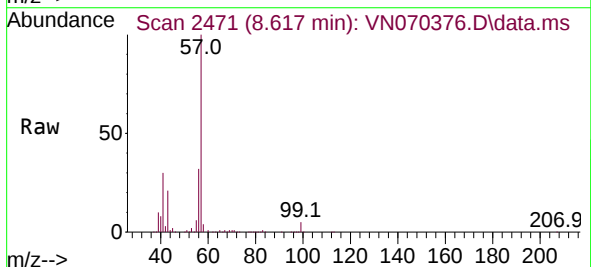
Instrument :
MSVOA_N
ClientSampleId :



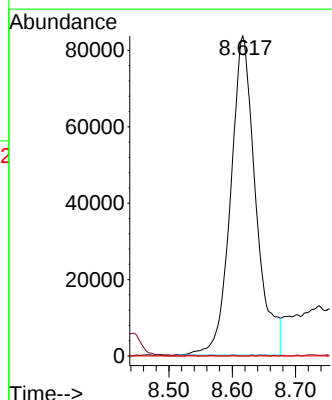
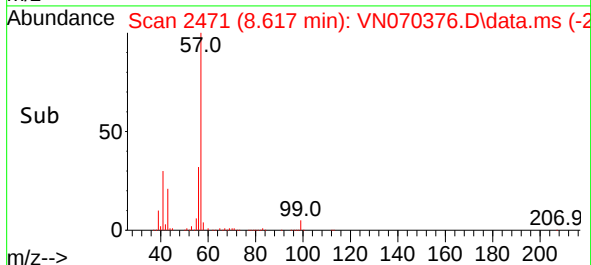
Tgt Ion: 117 Resp: 89704
Ion Ratio Lower Upper
117 100
119 6.1 76.1 114.1#
121 0.0 24.2 36.2#

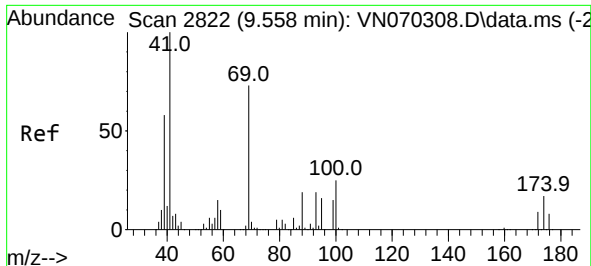


#43
Isopropyl Acetate
Concen: 7.088 ug/l
RT: 8.617 min Scan# 2471
Delta R.T. 0.057 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36



Tgt Ion: 43 Resp: 229273
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#

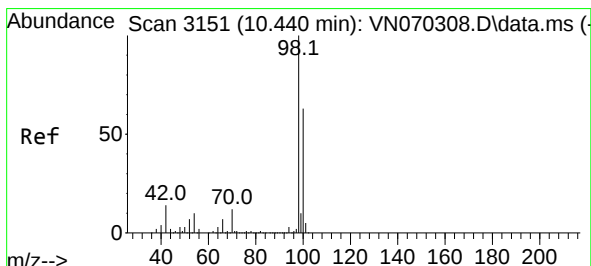
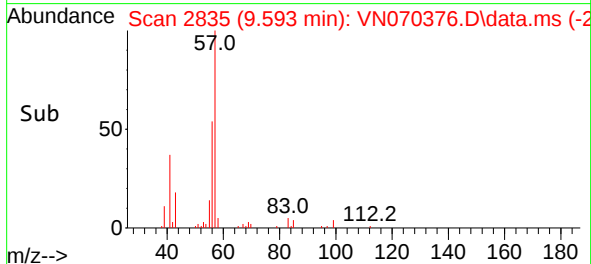
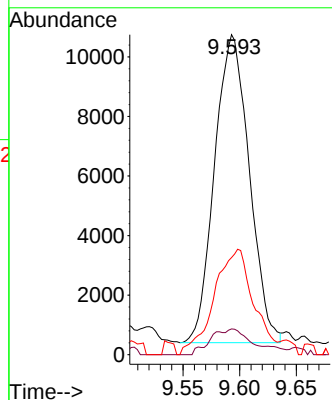
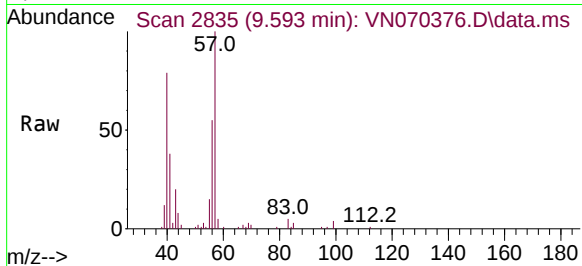




#48
Methyl methacrylate
Concen: 1.428 ug/l
RT: 9.593 min Scan# 21
Delta R.T. 0.035 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

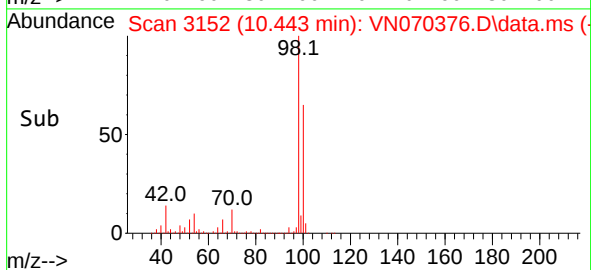
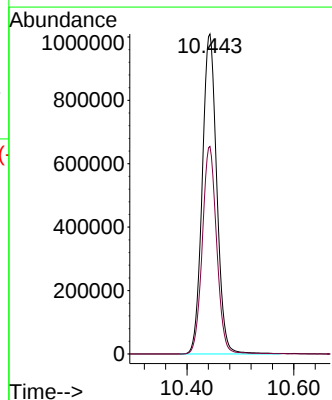
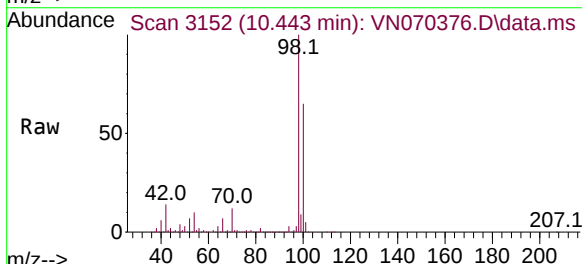
Instrument :
MSVOA_N
ClientSampleId :

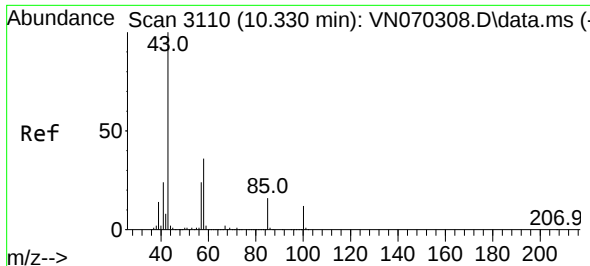
Tgt Ion: 41 Resp: 22034
Ion Ratio Lower Upper
41 100
69 4.0 72.4 108.6#
39 38.8 58.4 87.6#



#50
Toluene-d8
Concen: 48.689 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 98 Resp: 1903029
Ion Ratio Lower Upper
98 100
100 64.0 50.4 75.6

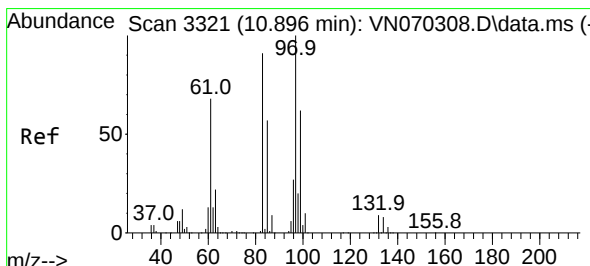
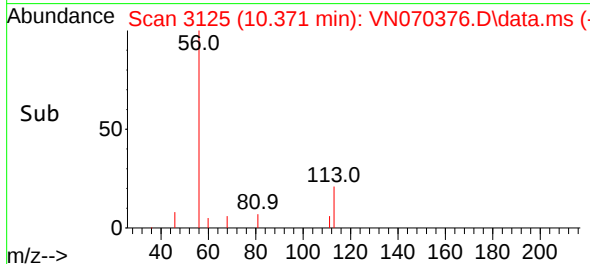
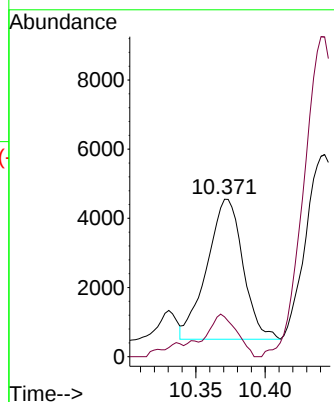
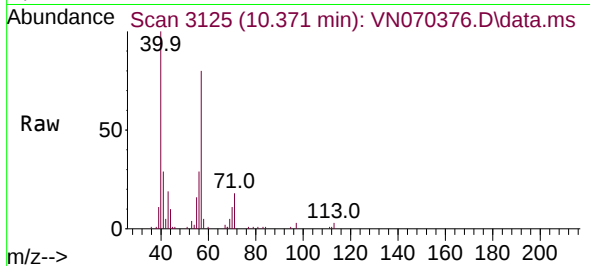




#51
4-Methyl-2-Pentanone
Concen: 0.360 ug/l
RT: 10.371 min Scan# 3110
Delta R.T. 0.041 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

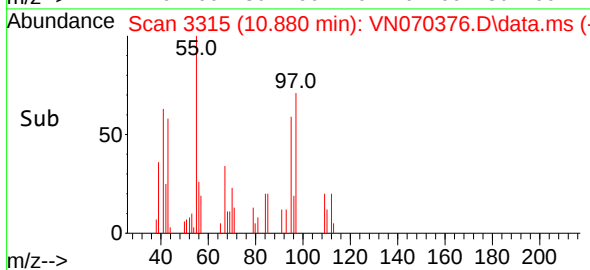
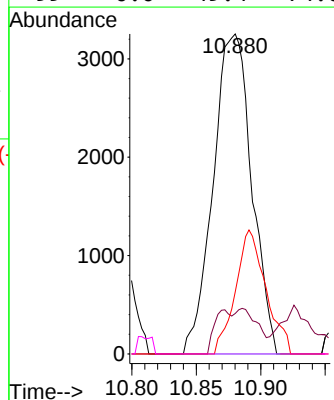
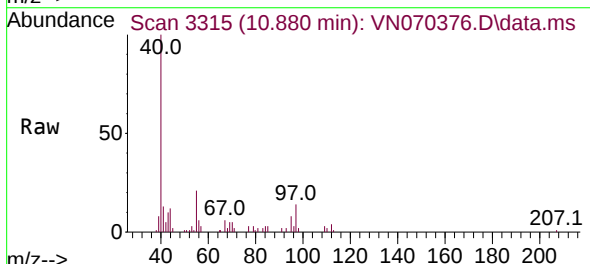
Instrument :
MSVOA_N
ClientSampleId :

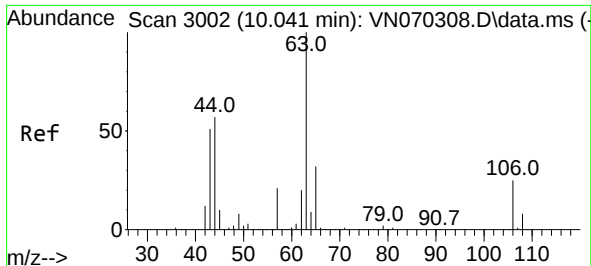
Tgt Ion: 43 Resp: 7313
Ion Ratio Lower Upper
43 100
58 27.1 30.4 45.6#



#55
1,1,2-Trichloroethane
Concen: 0.582 ug/l
RT: 10.880 min Scan# 3315
Delta R.T. -0.016 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 97 Resp: 6758
Ion Ratio Lower Upper
97 100
83 12.7 67.8 101.6#
85 19.4 45.4 68.2#
99 0.0 49.4 74.0#

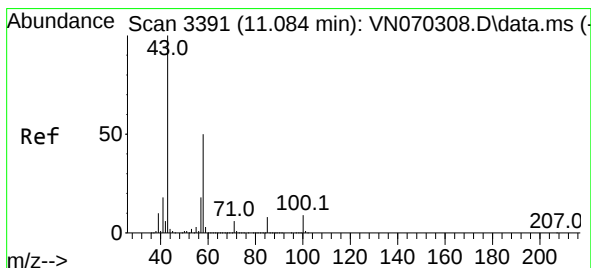
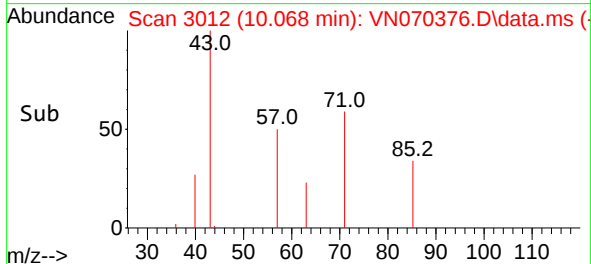
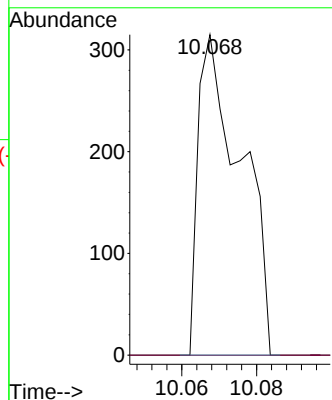
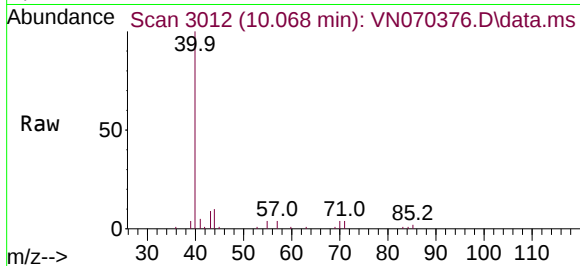




#58
2-Chloroethyl Vinyl ether
Concen: 18.560 ug/l
RT: 10.068 min Scan# 3002
Delta R.T. 0.027 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

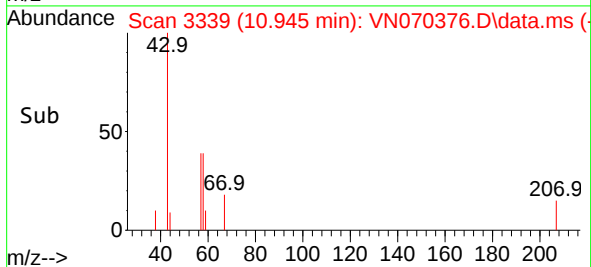
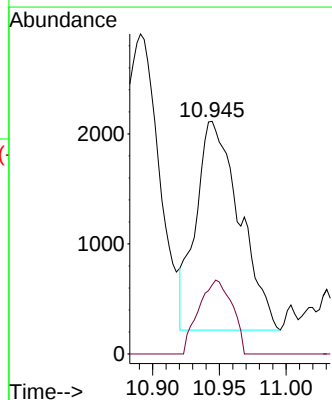
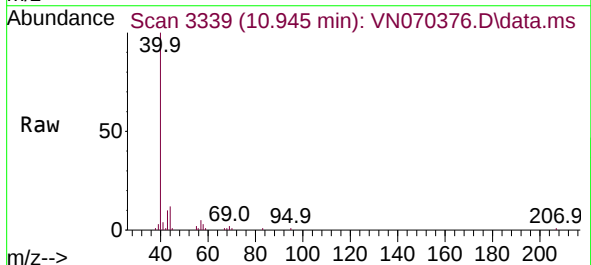
Instrument :
MSVOA_N
ClientSampleId :

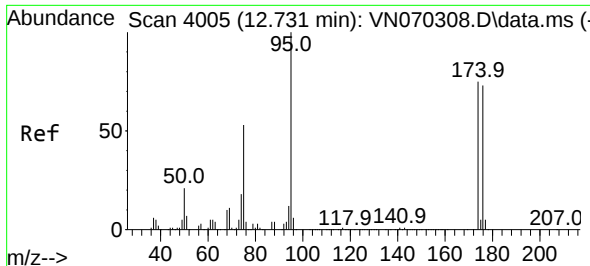
Tgt Ion: 63 Resp: 251
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 0.292 ug/l
RT: 10.945 min Scan# 3339
Delta R.T. -0.139 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 43 Resp: 4330
Ion Ratio Lower Upper
43 100
58 27.0 26.9 80.7

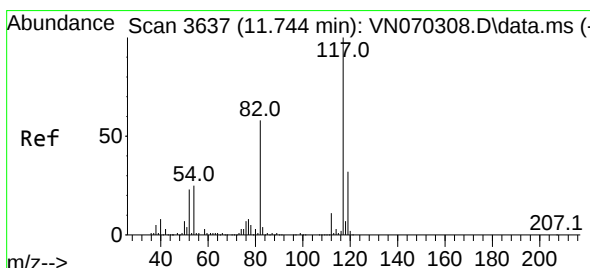
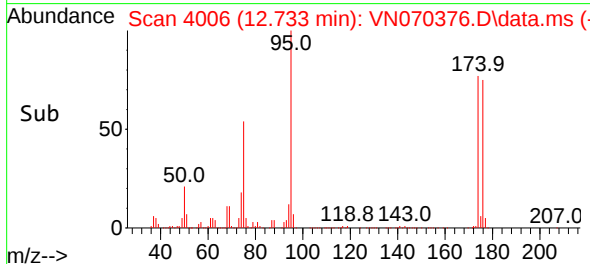
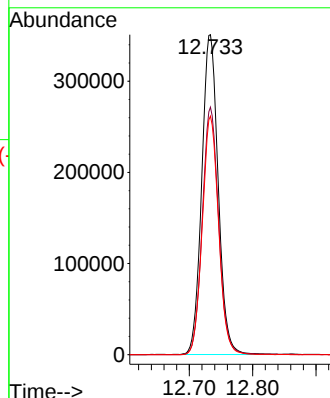
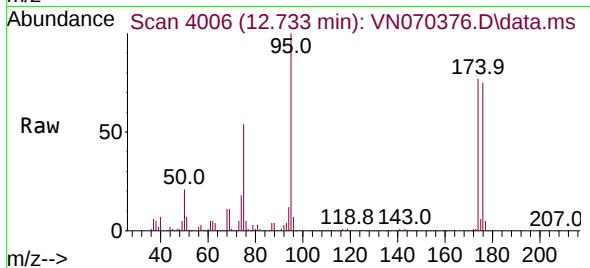




#62
4-Bromofluorobenzene
Concen: 44.740 ug/l
RT: 12.733 min Scan# 4005
Delta R.T. 0.002 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

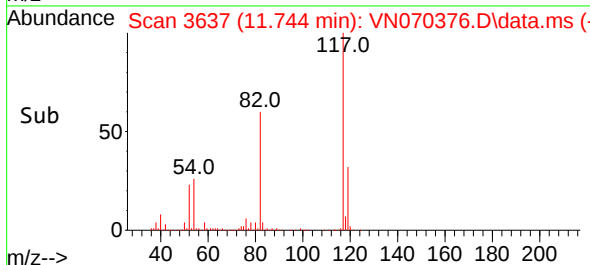
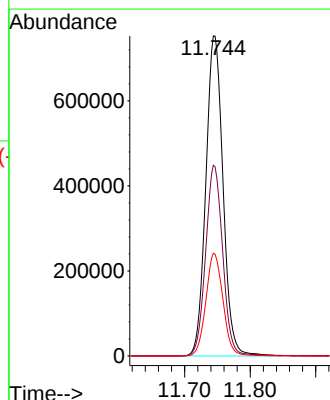
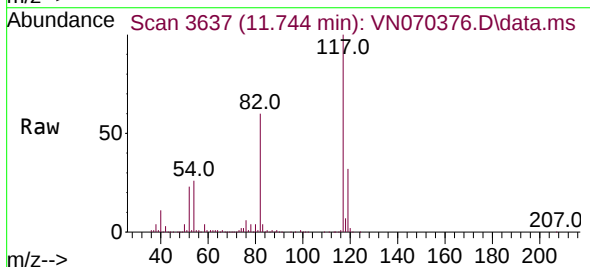
Instrument :
MSVOA_N
ClientSampleId :

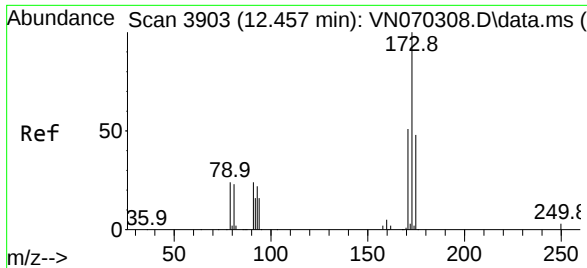
Tgt Ion: 95 Resp: 631592
Ion Ratio Lower Upper
95 100
174 76.8 0.0 187.2
176 73.9 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.000 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 117 Resp: 1370813
Ion Ratio Lower Upper
117 100
82 59.6 42.4 63.6
119 32.1 25.4 38.2





#71

Bromoform

Concen: 0.395 ug/l

RT: 12.731 min Scan# 4005

Delta R.T. 0.274 min

Lab File: VN070376.D

Acq: 30 Dec 2021 4:36

Instrument :

MSVOA_N

ClientSampleId :

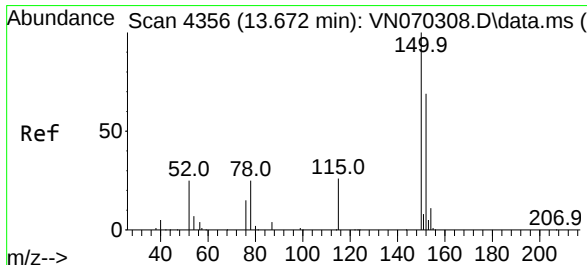
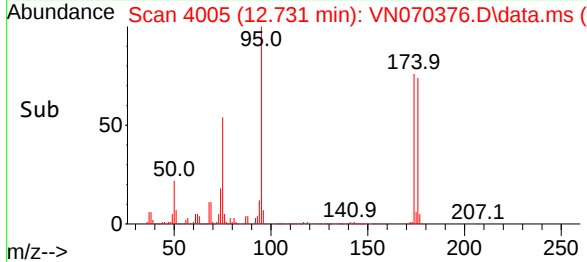
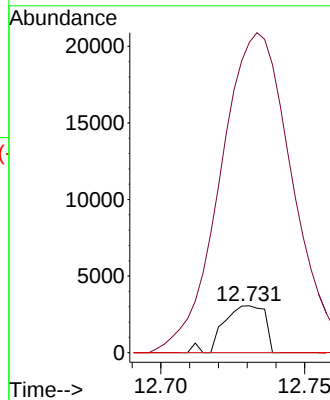
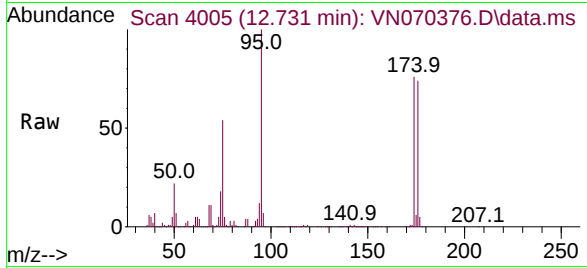
Tgt Ion:173 Resp: 3046

Ion Ratio Lower Upper

173 100

175 1071.3 24.2 72.6#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 4358

Delta R.T. 0.005 min

Lab File: VN070376.D

Acq: 30 Dec 2021 4:36

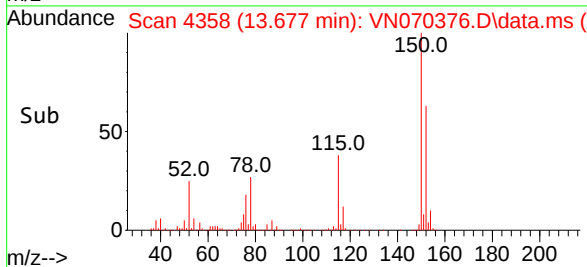
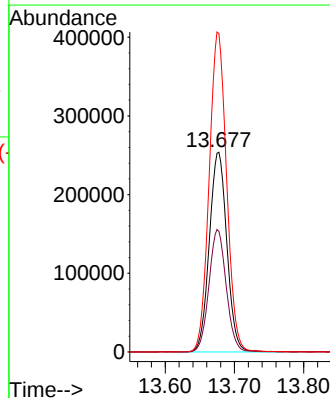
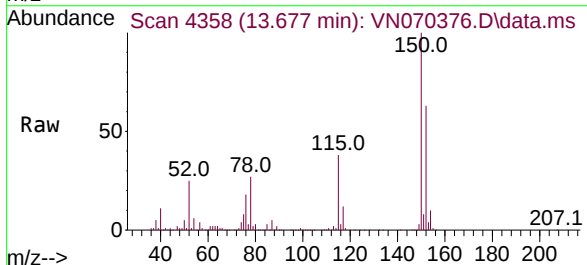
Tgt Ion:152 Resp: 447850

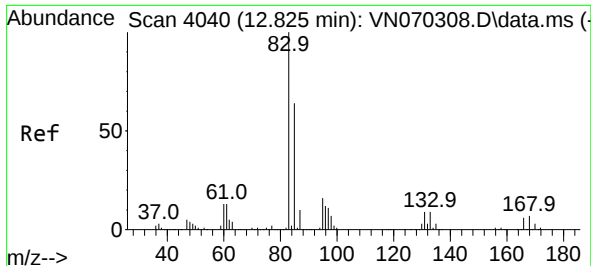
Ion Ratio Lower Upper

152 100

115 60.1 27.5 82.5

150 158.6 0.0 344.4

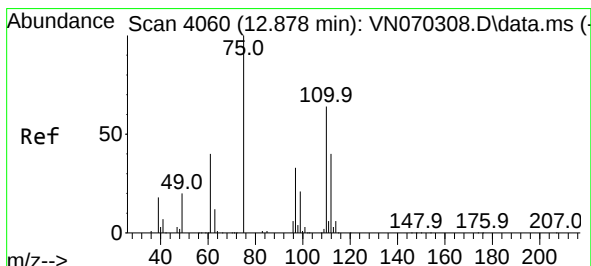
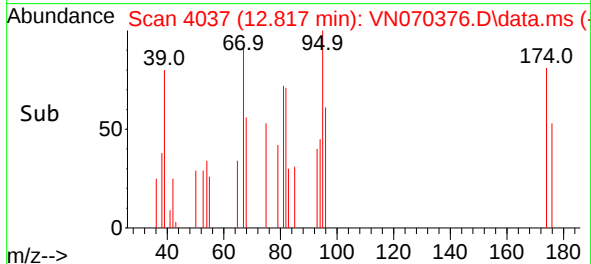
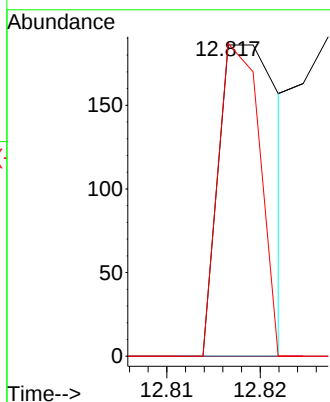
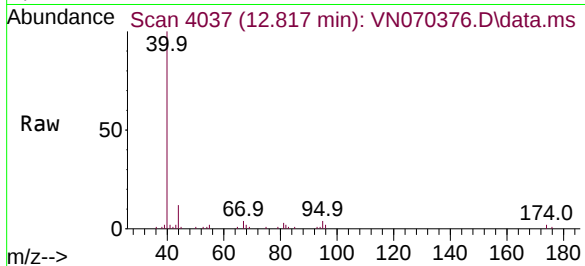




#75
1,1,2,2-Tetrachloroethane
Concen: 0.453 ug/l
RT: 12.817 min Scan# 4040
Delta R.T. -0.008 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

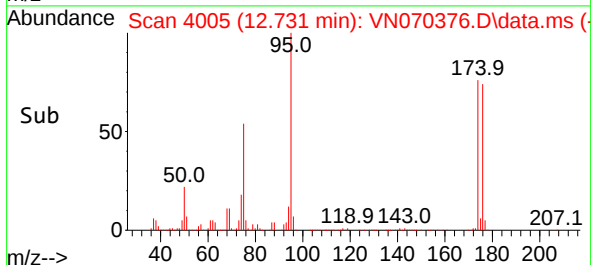
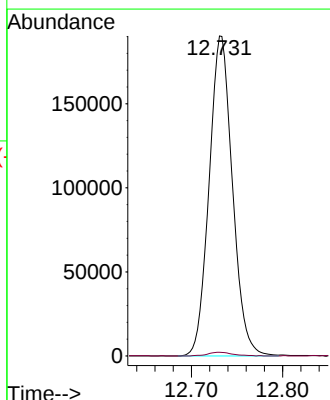
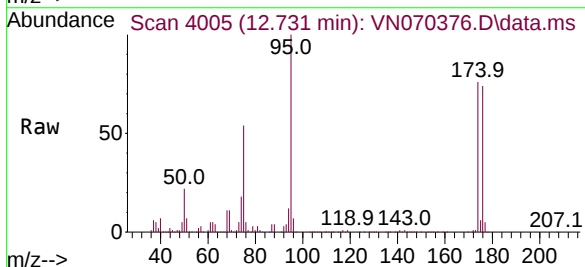
Instrument :
MSVOA_N
ClientSampleId :

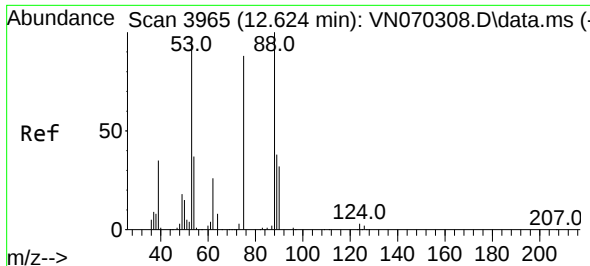
Tgt Ion: 83 Resp: 85
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 67.1 32.4 97.2



#76
1,2,3-Trichloropropane
Concen: 26.859 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.147 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

Tgt Ion: 75 Resp: 338367
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#

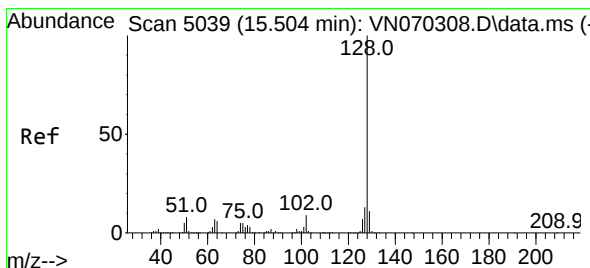
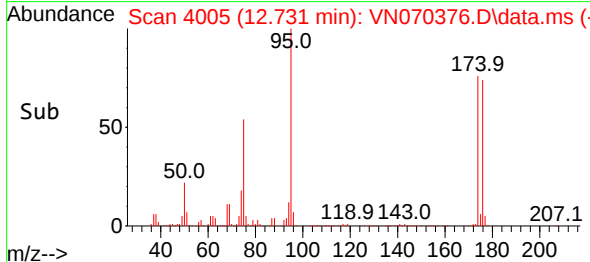
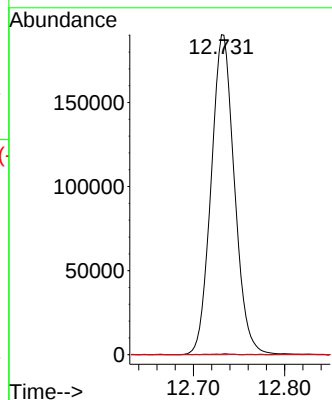
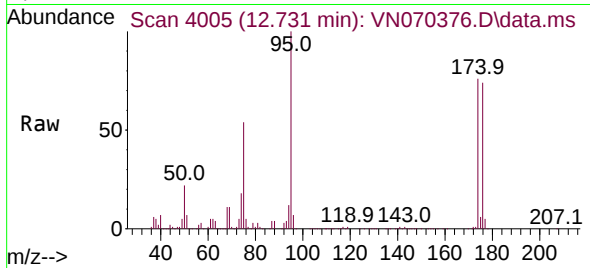




#81
trans-1,4-Dichloro-2-butene
Concen: 92.309 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.107 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

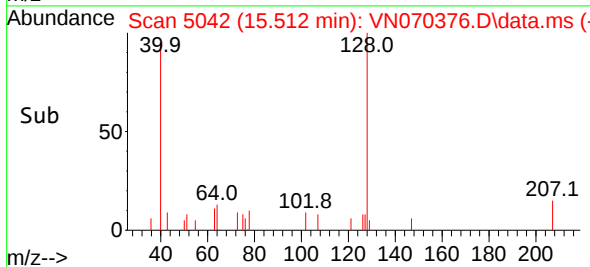
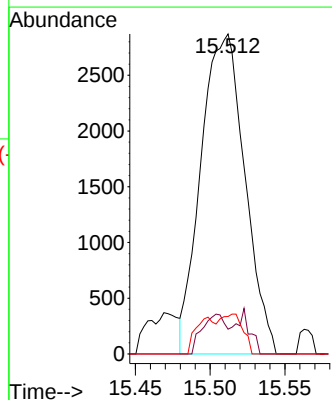
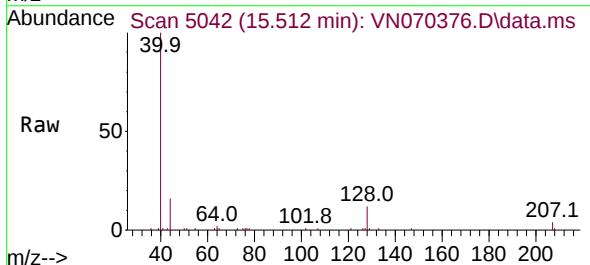
Instrument :
MSVOA_N
ClientSampleId :

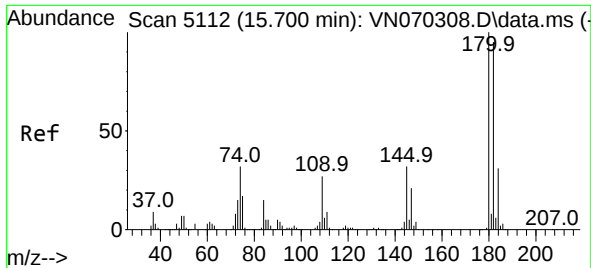
Tgt Ion: 75 Resp: 338367
Ion Ratio Lower Upper
75 100
53 0.2 90.5 135.7#
89 0.0 38.2 57.4#



#95
Naphthalene
Concen: 2.074 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.008 min
Lab File: VN070376.D
Acq: 30 Dec 2021 4:36

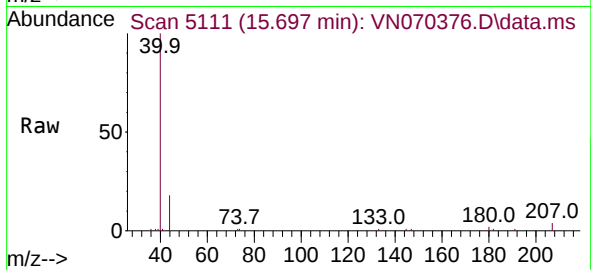
Tgt Ion: 128 Resp: 5858
Ion Ratio Lower Upper
128 100
127 4.0 10.5 15.7#
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.892 ug/l
 RT: 15.697 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VN070376.D
 Acq: 30 Dec 2021 4:36

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 476
 Ion Ratio Lower Upper
 180 100
 182 107.8 47.4 142.2
 145 0.0 15.0 45.1#

