

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120922\
 Data File : VN0756695.D
 Acq On : 10 Dec 2022 07:10
 Operator : JC\MD
 Sample : N5989-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 12 04:56:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120922W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 12 03:01:58 2022
 Response via : Initial Calibration

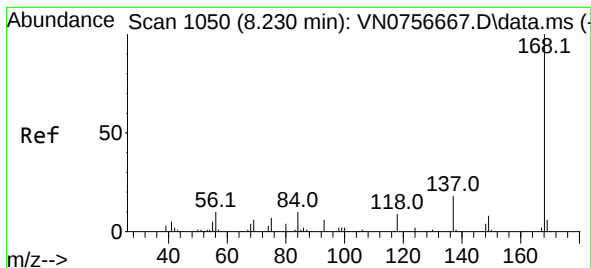
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	206081	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	346478	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	306253	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	140042	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	115854	52.984	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.960%	
35) Dibromofluoromethane	8.171	113	106423	50.344	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.680%	
50) Toluene-d8	10.571	98	401488	50.574	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.140%	
62) 4-Bromofluorobenzene	12.853	95	128717	47.422	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 94.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	626	0.347	ug/l #	40
6) Chloroethane	3.089	64	633	0.382	ug/l	90
8) Diethyl Ether	3.971	74	1905	1.619	ug/l	99
11) Tert butyl alcohol	5.536	59	76370	236.090	ug/l	98
15) Acrylonitrile	5.806	53	3059	3.661	ug/l #	19
16) Acetone	4.454	43	581	0.785	ug/l #	41
17) Carbon Disulfide	4.724	76	2398	0.513	ug/l #	74
18) Methyl Acetate	5.301	43	593	0.249	ug/l #	44
19) Methyl tert-butyl Ether	5.812	73	301478	50.765	ug/l	98
22) Diisopropyl ether	6.689	45	17964	3.591	ug/l	94
23) Vinyl Acetate	6.689	43	10676	2.799	ug/l #	65
31) Cyclohexane	8.230	56	5182	1.601	ug/l #	55
36) 1,1-Dichloropropene	8.230	75	13985	4.982	ug/l #	49
38) Carbon Tetrachloride	8.230	117	19999	6.174	ug/l #	16
39) Methylcyclohexane	9.600	83	1202	0.338	ug/l #	75
40) Benzene	8.612	78	32757	3.803	ug/l	98
42) 1,2-Dichloroethane	8.683	62	13895	4.822	ug/l	98
51) 4-Methyl-2-Pentanone	10.571	43	1474	0.635	ug/l #	1
60) Dibromochloromethane	11.106	129	726	0.295	ug/l #	11
64) Tetrachloroethene	11.100	164	1047	0.469	ug/l #	70
71) Bromoform	12.841	173	1295	0.745	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	63791	22.682	ug/l #	1
78) n-propylbenzene	13.041	91	2847	0.255	ug/l	100
79) 2-Chlorotoluene	13.041	91	2847	0.413	ug/l #	39
81) trans-1,4-Dichloro-2-b...	12.853	75	63791	72.617	ug/l #	13
82) 4-Chlorotoluene	13.041	91	2847	0.413	ug/l #	39

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

Quant Time: Dec 12 04:56:45 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120922W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 12 03:01:58 2022
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.000 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

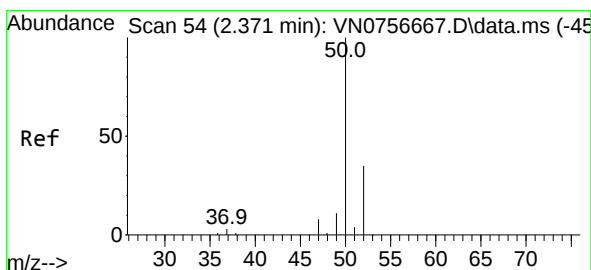
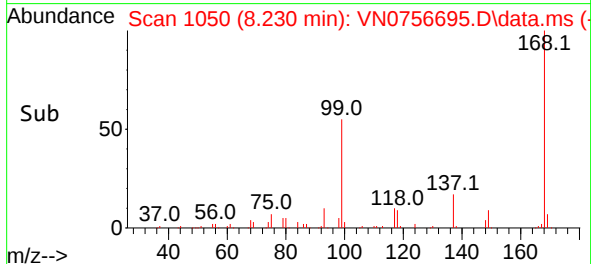
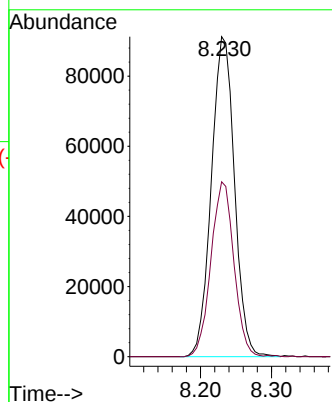
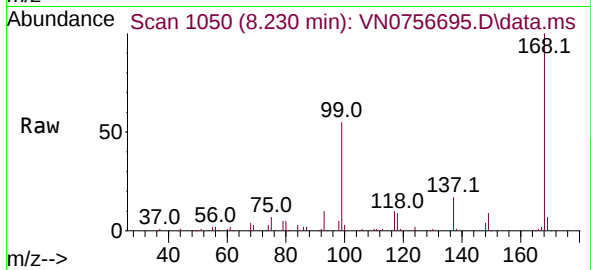
ClientSampleId :

Tgt Ion:168 Resp: 206081

Ion Ratio Lower Upper

168 100

99 54.7 41.2 61.8



#3

Chloromethane

Concen: 0.347 ug/l

RT: 2.377 min Scan# 55

Delta R.T. 0.006 min

Lab File: VN0756695.D

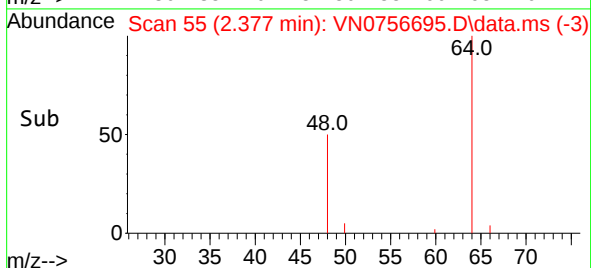
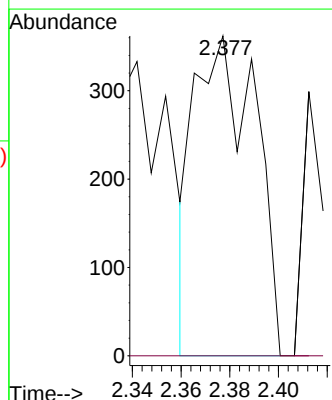
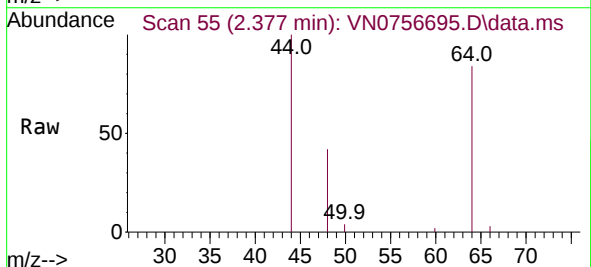
Acq: 10 Dec 2022 07:10

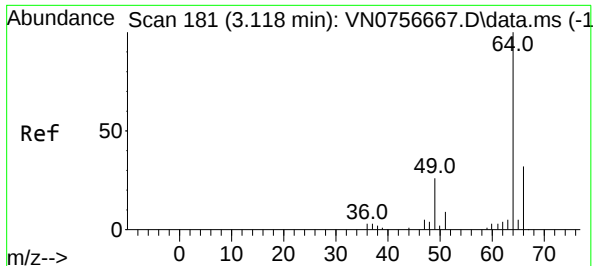
Tgt Ion: 50 Resp: 626

Ion Ratio Lower Upper

50 100

52 0.0 27.9 41.9#

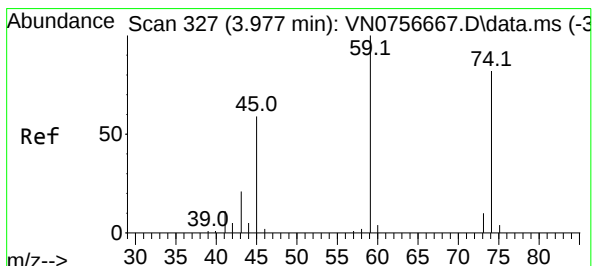
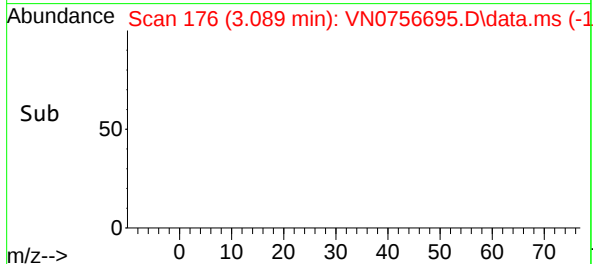
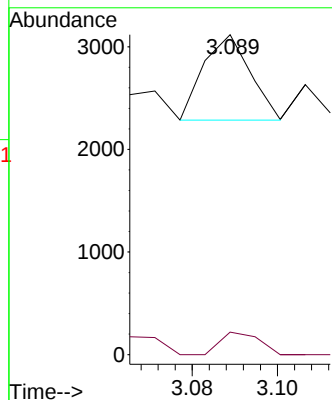
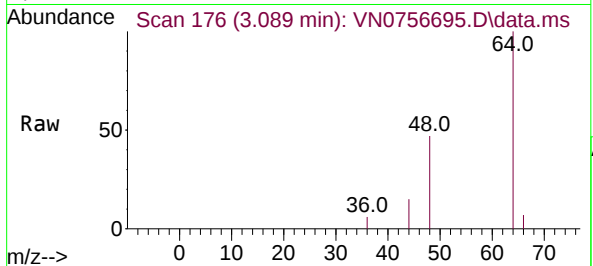




#6
Chloroethane
Concen: 0.382 ug/l
RT: 3.089 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

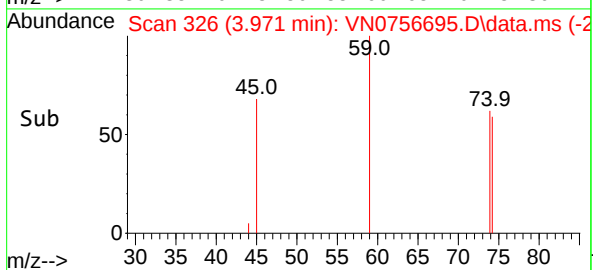
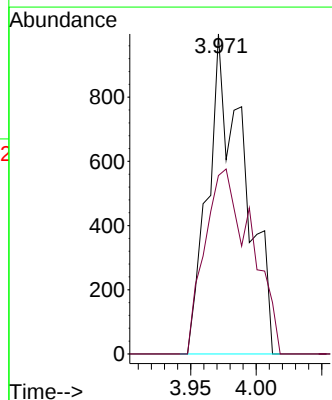
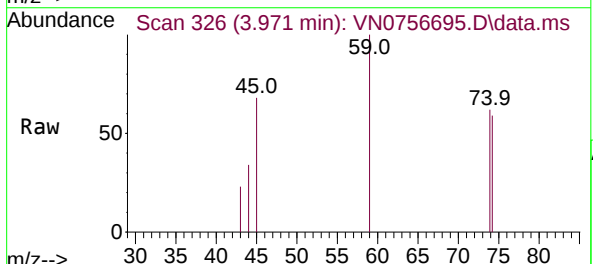
Instrument :
MSVOA_N
ClientSampleId :

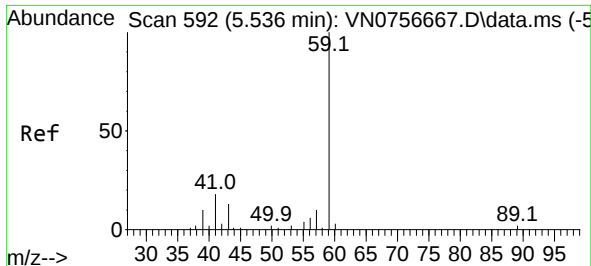
Tgt Ion: 64 Resp: 633
Ion Ratio Lower Upper
64 100
66 26.4 25.7 38.5



#8
Diethyl Ether
Concen: 1.619 ug/l
RT: 3.971 min Scan# 326
Delta R.T. -0.006 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

Tgt Ion: 74 Resp: 1905
Ion Ratio Lower Upper
74 100
45 74.5 36.8 110.4





#11

Tert butyl alcohol

Concen: 236.090 ug/l

RT: 5.536 min Scan# 592

Delta R.T. 0.000 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

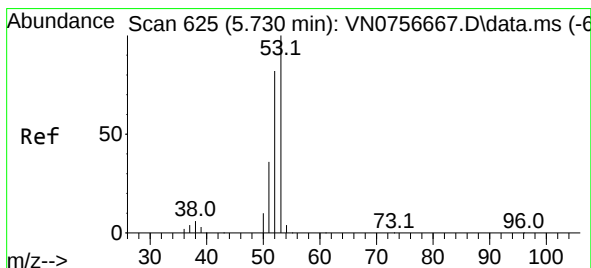
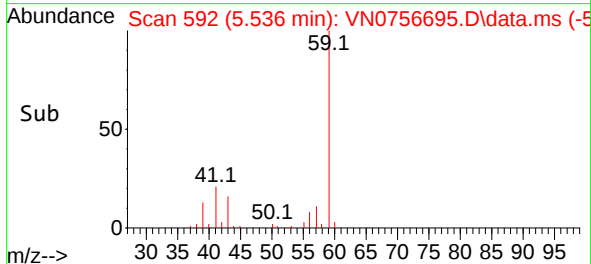
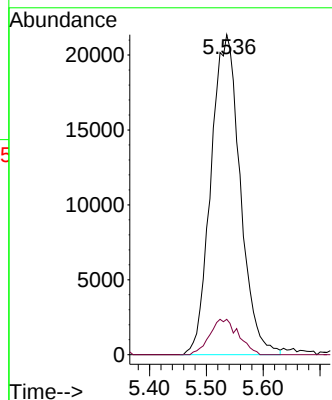
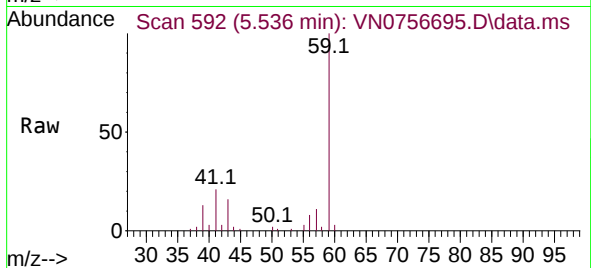
ClientSampleId :

Tgt Ion: 59 Resp: 76370

Ion Ratio Lower Upper

59 100

57 10.9 8.2 12.4



#15

Acrylonitrile

Concen: 3.661 ug/l

RT: 5.806 min Scan# 638

Delta R.T. 0.077 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

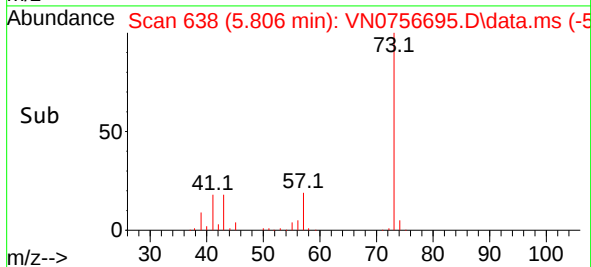
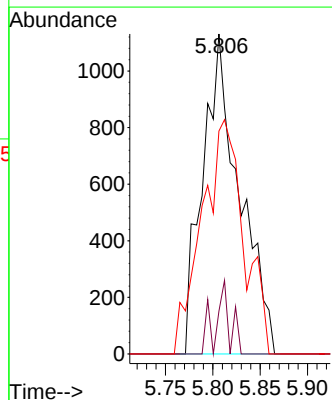
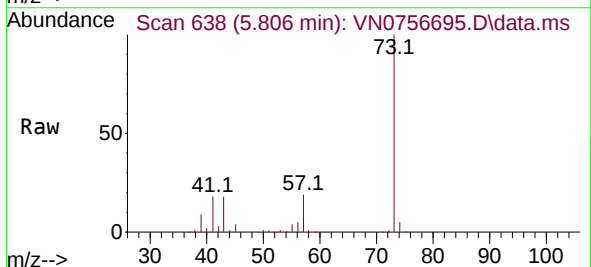
Tgt Ion: 53 Resp: 3059

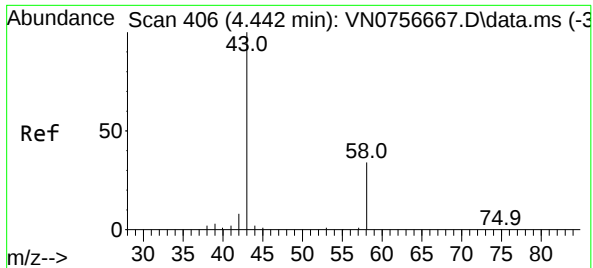
Ion Ratio Lower Upper

53 100

52 8.9 65.0 97.4#

51 83.0 28.9 43.3#





#16

Acetone

Concen: 0.785 ug/l

RT: 4.454 min Scan# 406

Delta R.T. 0.012 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

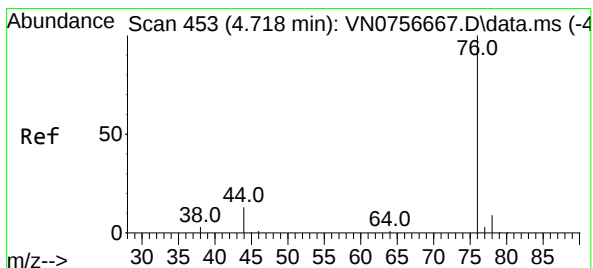
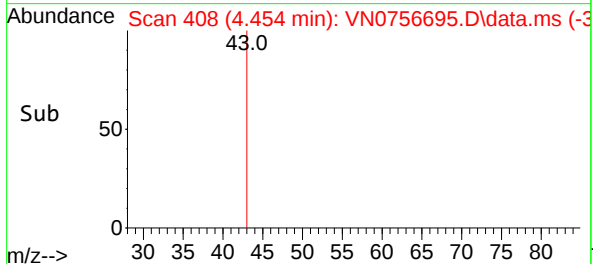
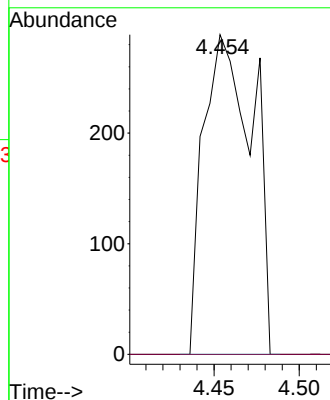
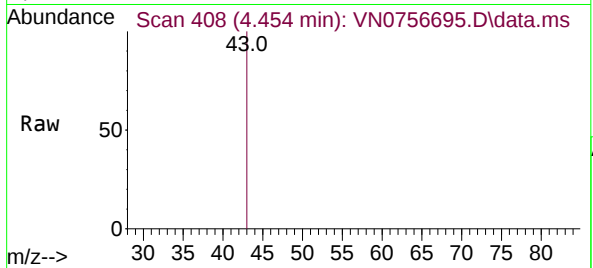
ClientSampleId :

Tgt Ion: 43 Resp: 581

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.4#



#17

Carbon Disulfide

Concen: 0.513 ug/l

RT: 4.724 min Scan# 454

Delta R.T. 0.006 min

Lab File: VN0756695.D

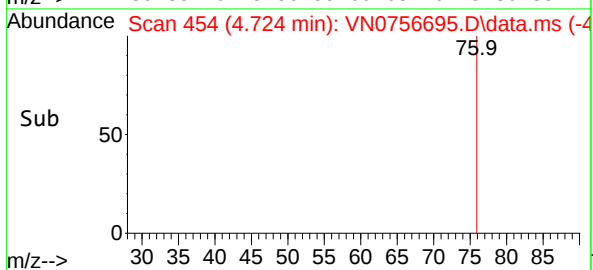
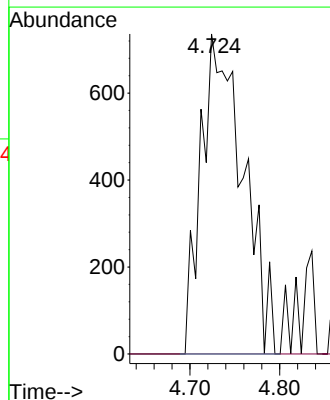
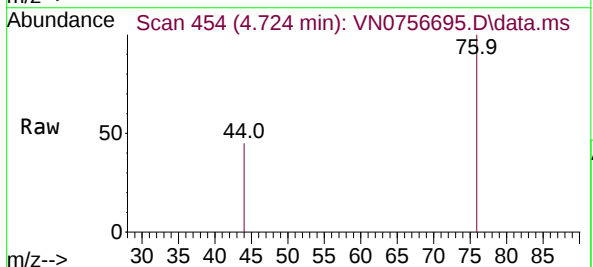
Acq: 10 Dec 2022 07:10

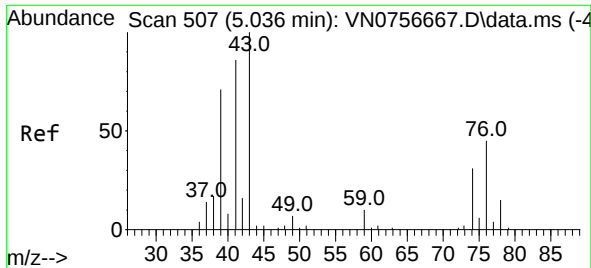
Tgt Ion: 76 Resp: 2398

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#

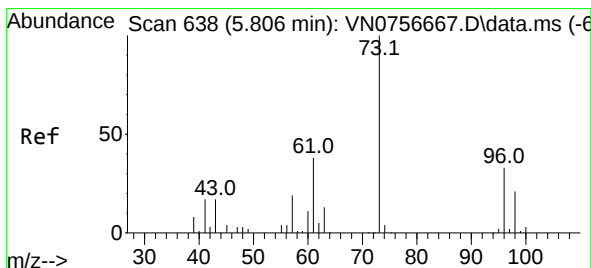
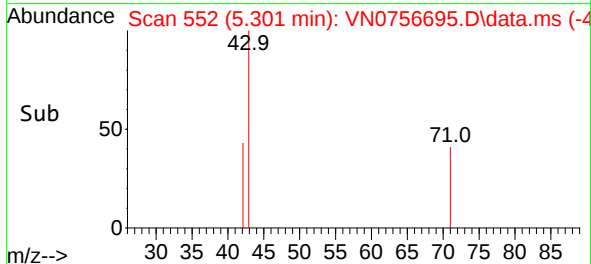
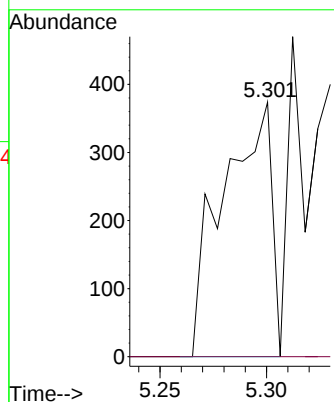
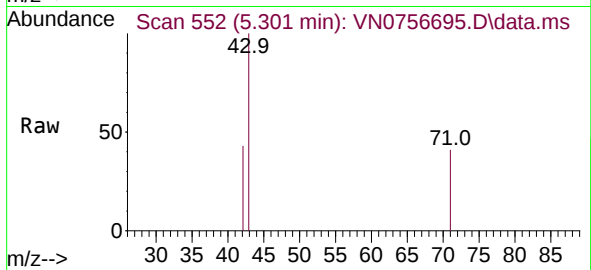




#18
Methyl Acetate
Concen: 0.249 ug/l
RT: 5.301 min Scan# 51
Delta R.T. 0.265 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

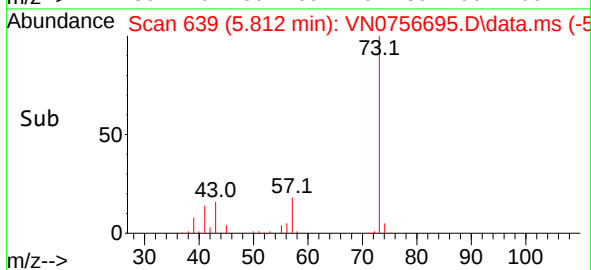
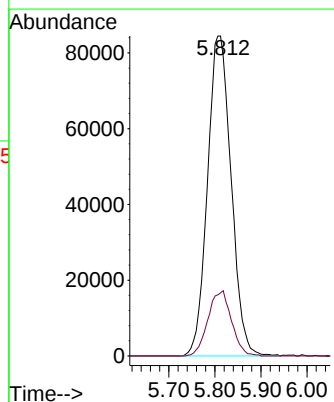
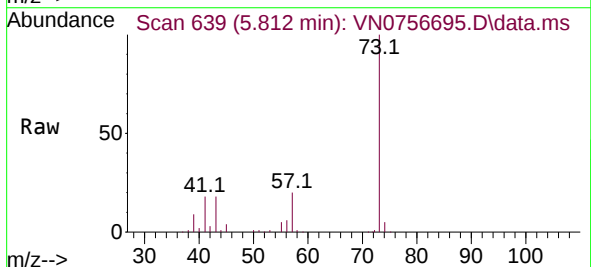
Instrument :
MSVOA_N
ClientSampleId :

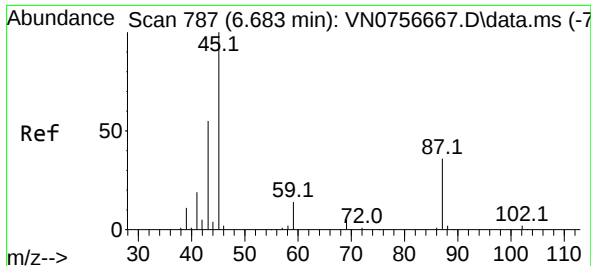
Tgt Ion: 43 Resp: 593
Ion Ratio Lower Upper
43 100
74 0.0 24.5 36.7#



#19
Methyl tert-butyl Ether
Concen: 50.765 ug/l
RT: 5.812 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

Tgt Ion: 73 Resp: 301478
Ion Ratio Lower Upper
73 100
57 19.7 15.1 22.7





#22

Diisopropyl ether

Concen: 3.591 ug/l

RT: 6.689 min Scan# 788

Delta R.T. 0.006 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 45 Resp: 17964

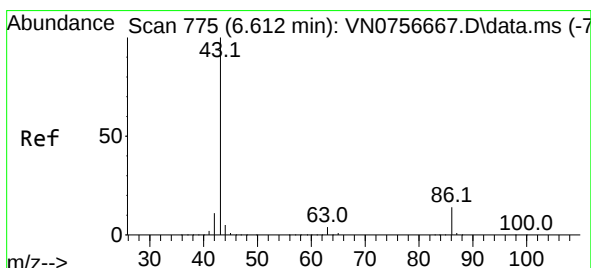
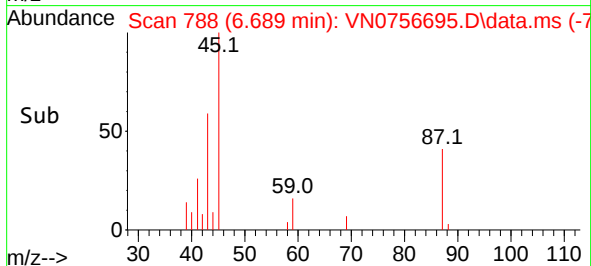
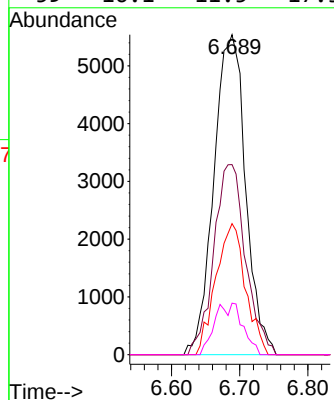
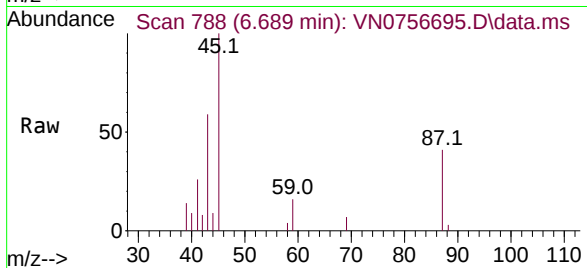
Ion Ratio Lower Upper

45 100

43 59.4 44.9 67.3

87 40.9 28.8 43.2

59 16.1 11.5 17.3



#23

Vinyl Acetate

Concen: 2.799 ug/l

RT: 6.689 min Scan# 788

Delta R.T. 0.077 min

Lab File: VN0756695.D

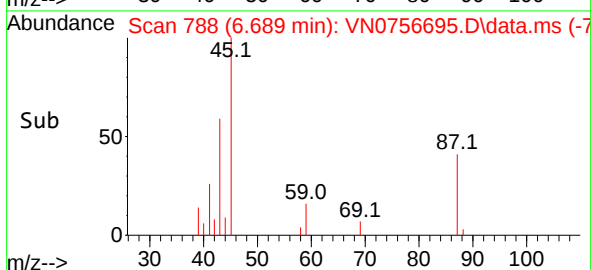
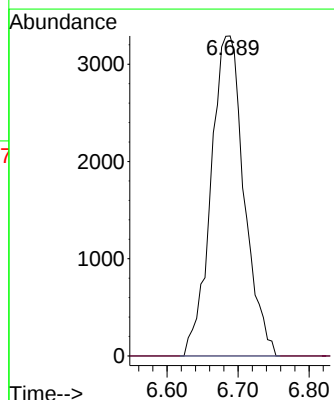
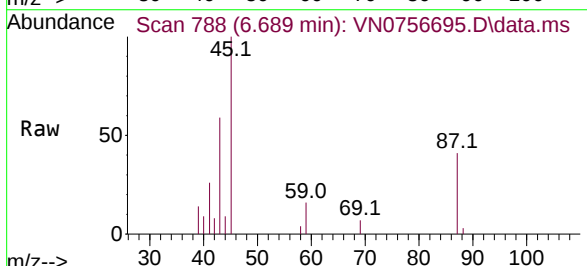
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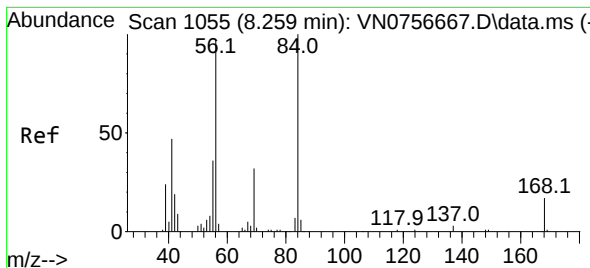
Tgt Ion: 43 Resp: 10676

Ion Ratio Lower Upper

43 100

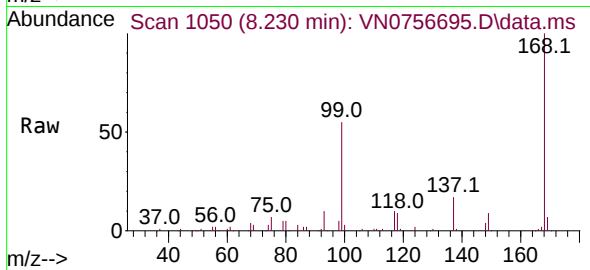
86 0.0 11.5 17.3#



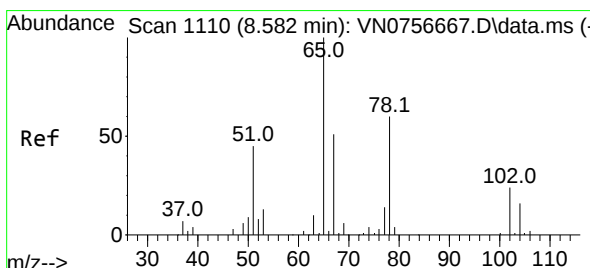
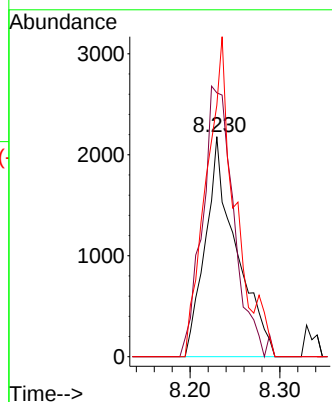
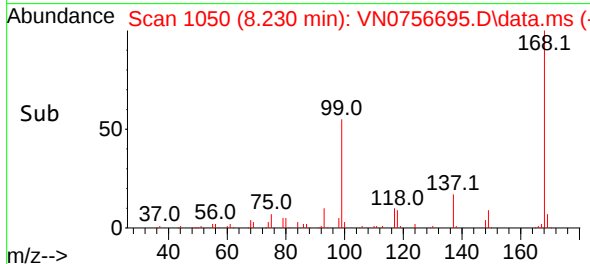


#31
Cyclohexane
Concen: 1.601 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

Instrument :
MSVOA_N
ClientSampleId :

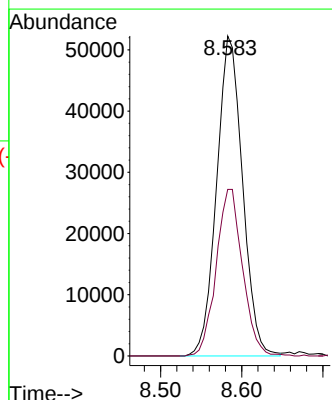
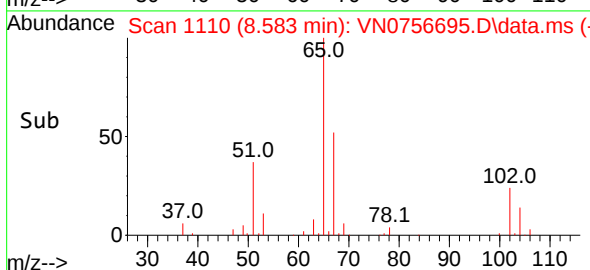
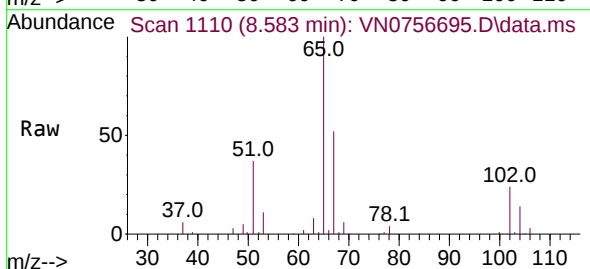


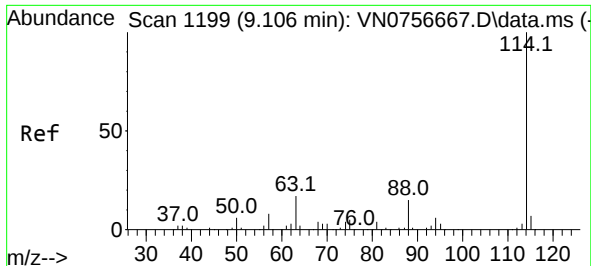
Tgt Ion: 56 Resp: 5182
Ion Ratio Lower Upper
56 100
69 120.0 26.2 39.2#
84 114.4 82.8 124.2



#33
1,2-Dichloroethane-d4
Concen: 52.984 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

Tgt Ion: 65 Resp: 115854
Ion Ratio Lower Upper
65 100
67 53.0 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

ClientSampleId :

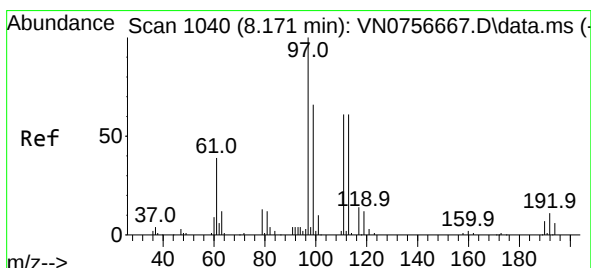
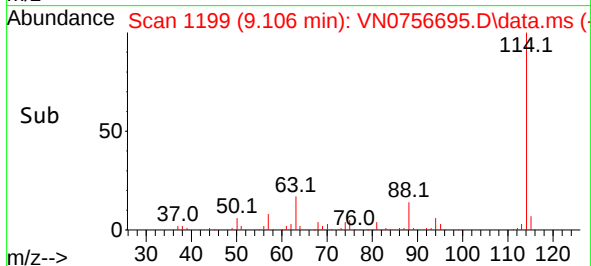
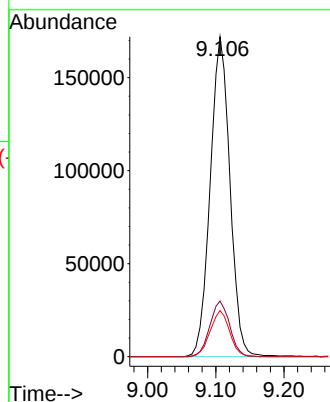
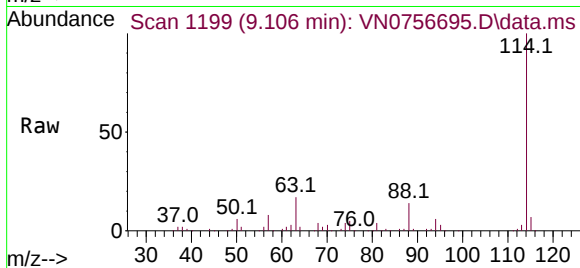
Tgt Ion:114 Resp: 346478

Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.4

88 14.4 0.0 29.2



#35

Dibromofluoromethane

Concen: 50.344 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

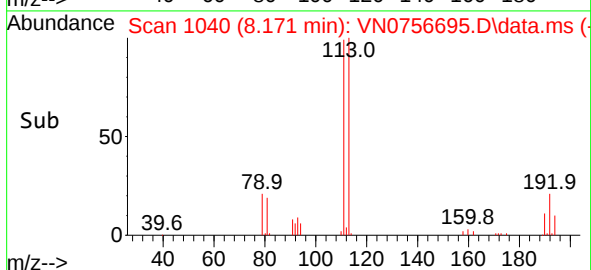
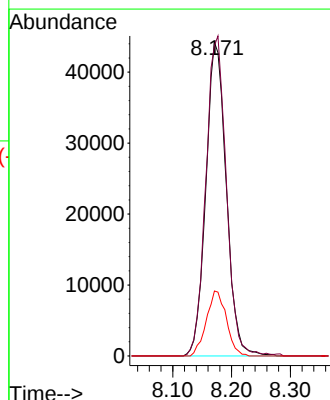
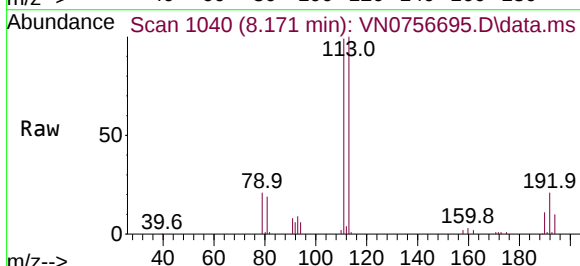
Tgt Ion:113 Resp: 106423

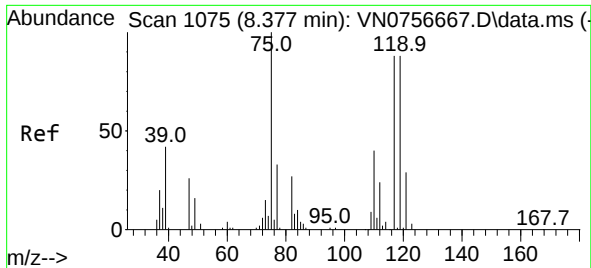
Ion Ratio Lower Upper

113 100

111 102.7 81.0 121.6

192 20.3 16.2 24.2

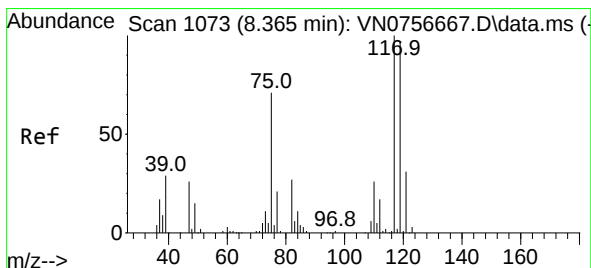
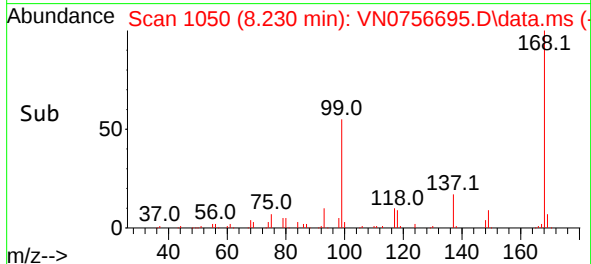
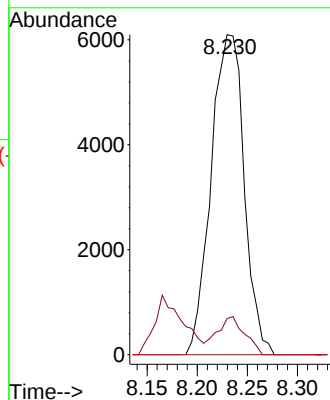
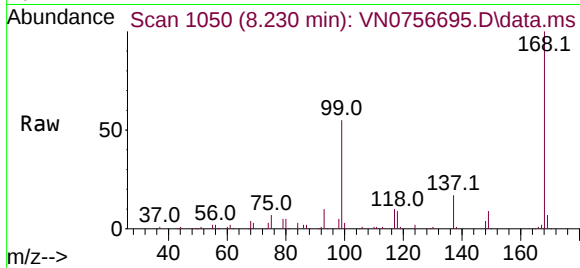




#36
 1,1-Dichloropropene
 Concen: 4.982 ug/l
 RT: 8.230 min Scan# 1050
 Delta R.T. -0.147 min
 Lab File: VN0756695.D
 Acq: 10 Dec 2022 07:10

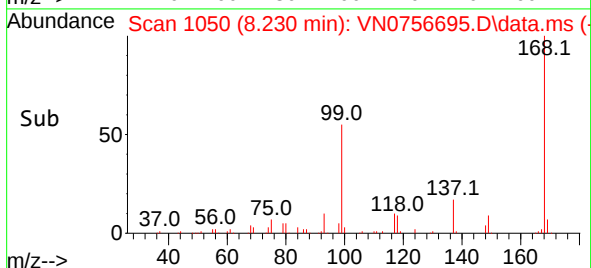
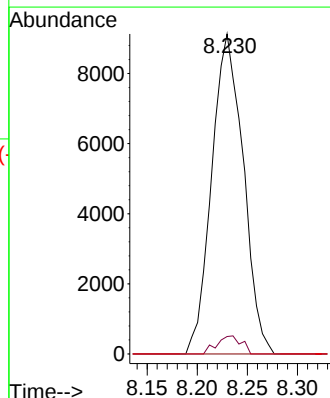
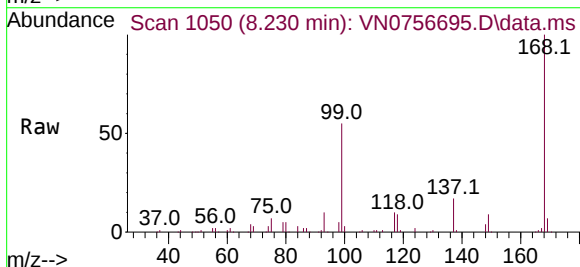
Instrument :
 MSVOA_N
 ClientSampleId :

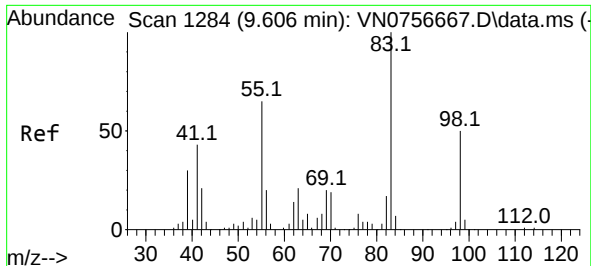
Tgt Ion: 75 Resp: 13985
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.9 56.9#
 77 0.0 25.4 38.2#



#38
 Carbon Tetrachloride
 Concen: 6.174 ug/l
 RT: 8.230 min Scan# 1050
 Delta R.T. -0.135 min
 Lab File: VN0756695.D
 Acq: 10 Dec 2022 07:10

Tgt Ion: 117 Resp: 19999
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.2 115.8#
 121 0.0 24.6 37.0#





#39

Methylcyclohexane

Concen: 0.338 ug/l

RT: 9.600 min Scan# 11283

Delta R.T. -0.006 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

ClientSampleId :

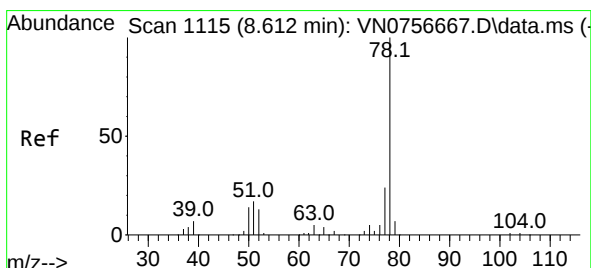
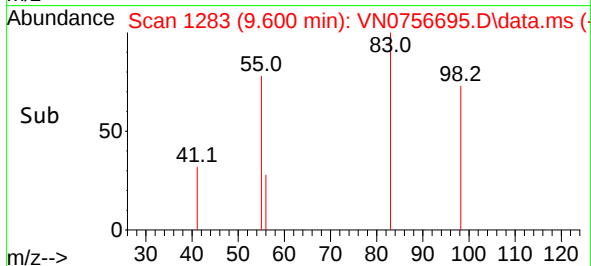
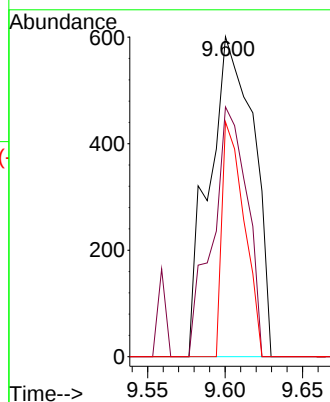
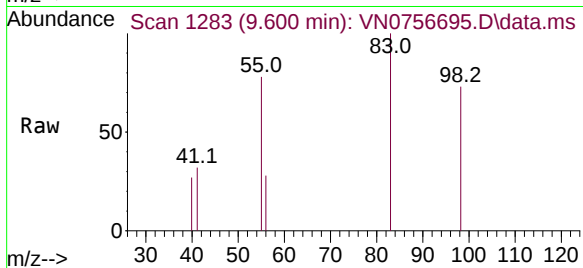
Tgt Ion: 83 Resp: 1202

Ion Ratio Lower Upper

83 100

55 78.0 51.6 77.4#

98 73.4 39.8 59.8#



#40

Benzene

Concen: 3.803 ug/l

RT: 8.612 min Scan# 1115

Delta R.T. 0.000 min

Lab File: VN0756695.D

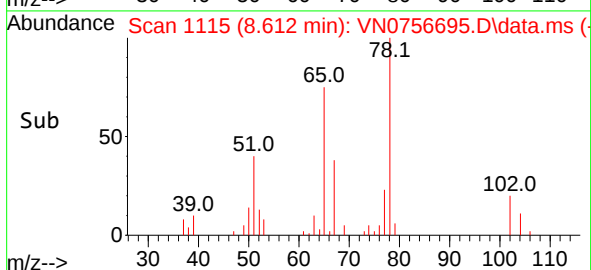
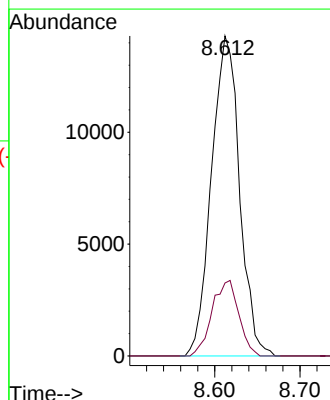
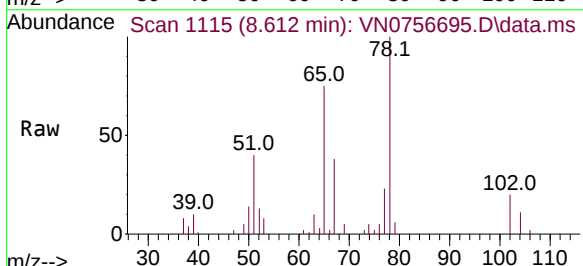
Acq: 10 Dec 2022 07:10

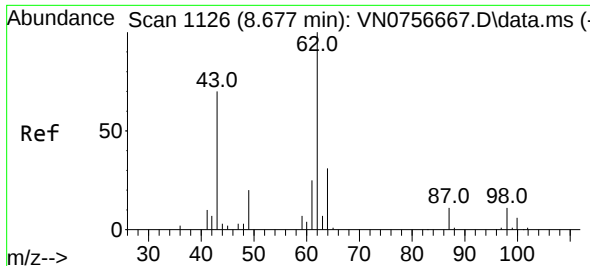
Tgt Ion: 78 Resp: 32757

Ion Ratio Lower Upper

78 100

77 22.8 19.1 28.7





#42

1,2-Dichloroethane

Concen: 4.822 ug/l

RT: 8.683 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

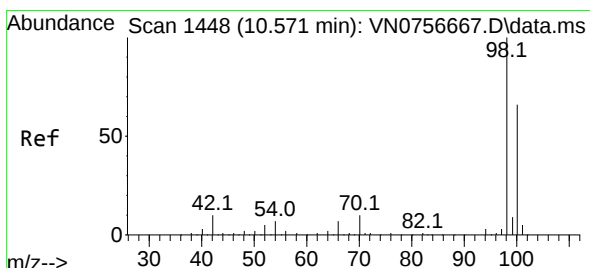
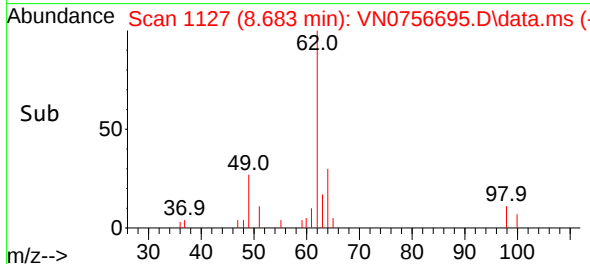
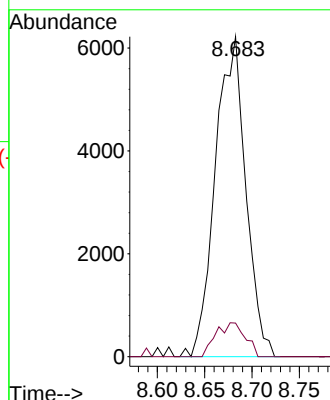
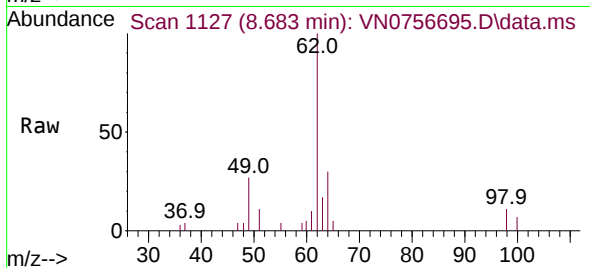
ClientSampleId :

Tgt Ion: 62 Resp: 13895

Ion Ratio Lower Upper

62 100

98 10.2 0.0 21.8



#50

Toluene-d8

Concen: 50.574 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN0756695.D

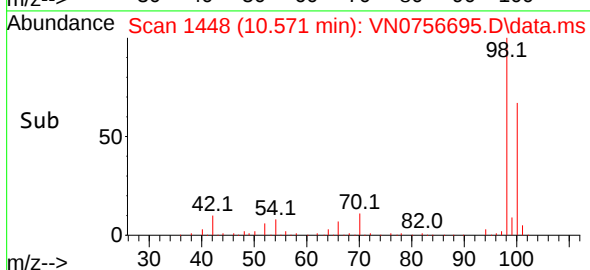
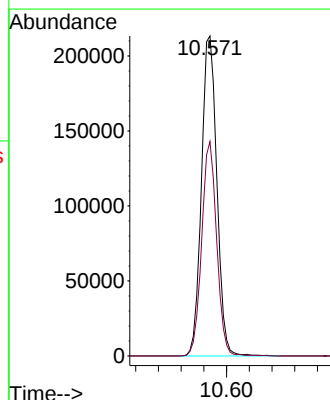
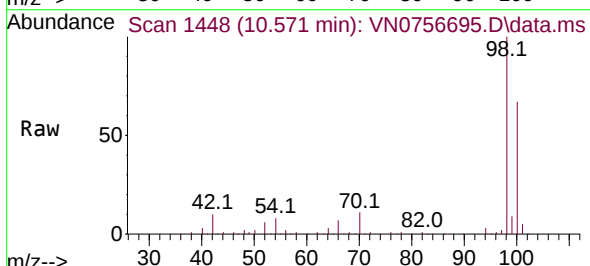
Acq: 10 Dec 2022 07:10

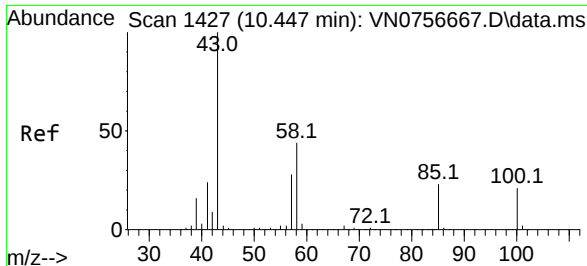
Tgt Ion: 98 Resp: 401488

Ion Ratio Lower Upper

98 100

100 65.1 52.6 78.8

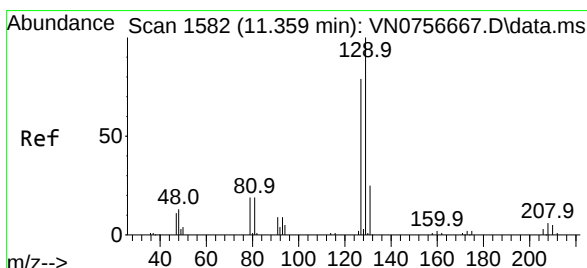
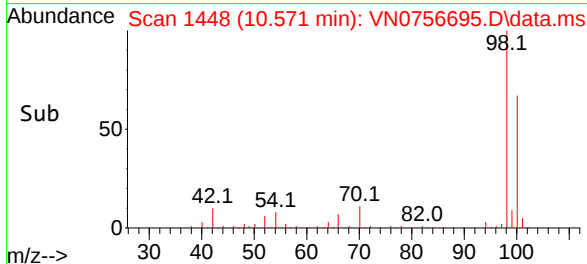
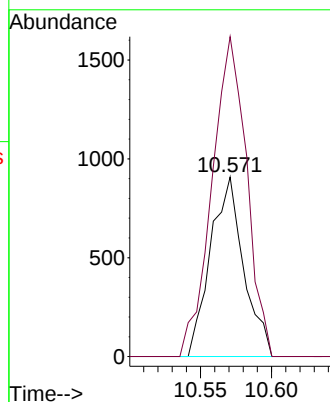
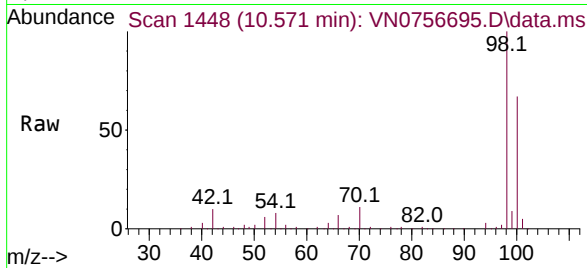




#51
4-Methyl-2-Pentanone
Concen: 0.635 ug/l
RT: 10.571 min Scan# 14
Delta R.T. 0.124 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

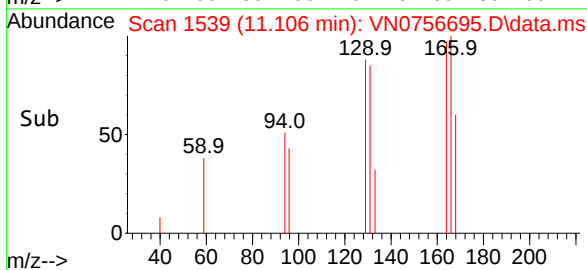
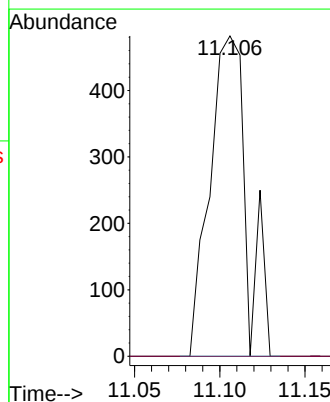
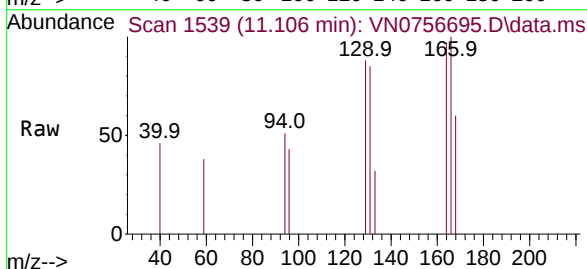
Instrument :
MSVOA_N
ClientSampleId :

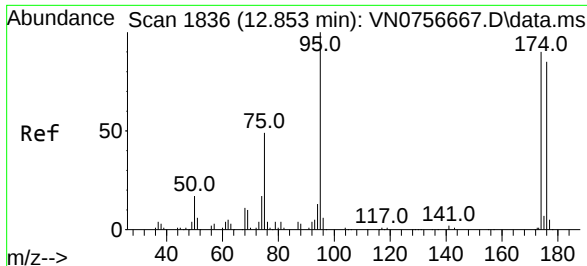
Tgt Ion: 43 Resp: 1474
Ion Ratio Lower Upper
43 100
58 186.4 35.0 52.6#



#60
Dibromochloromethane
Concen: 0.295 ug/l
RT: 11.106 min Scan# 1539
Delta R.T. -0.253 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

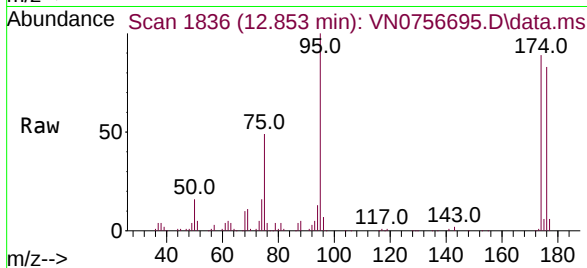
Tgt Ion: 129 Resp: 726
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



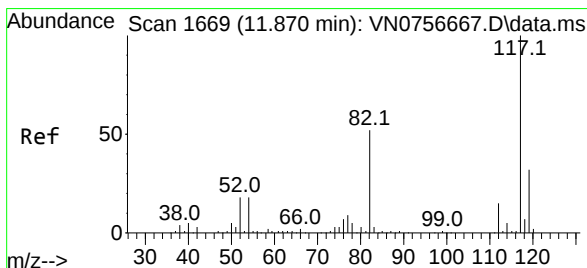
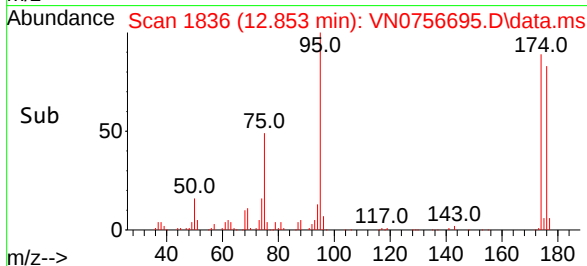
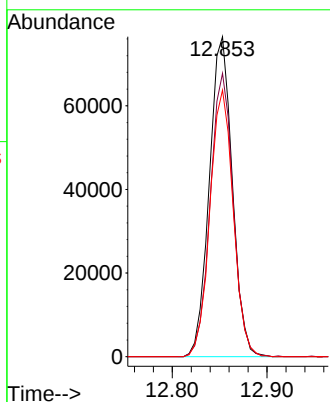


#62
4-Bromofluorobenzene
Concen: 47.422 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

Instrument :
MSVOA_N
ClientSampleId :

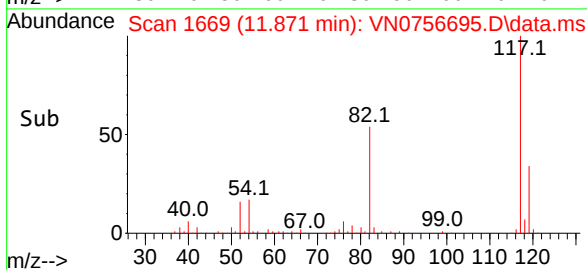
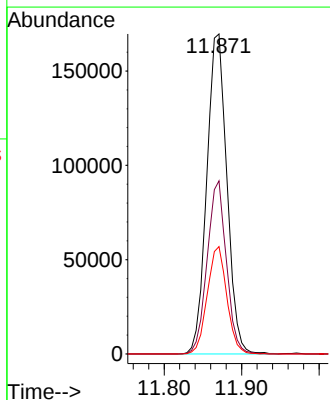
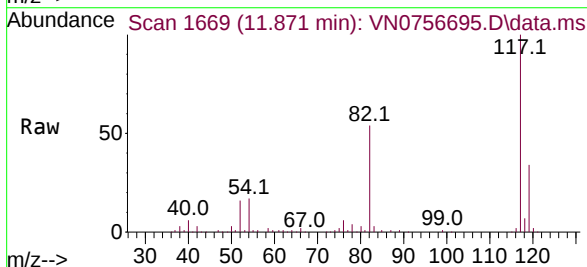


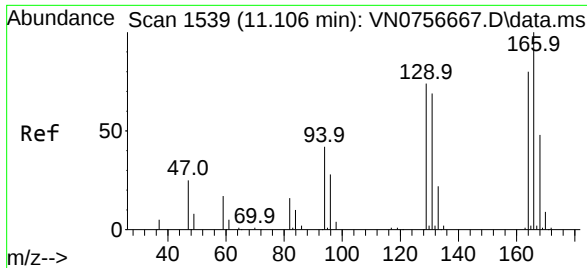
Tgt Ion: 95 Resp: 128717
Ion Ratio Lower Upper
95 100
174 88.2 0.0 178.6
176 84.3 0.0 170.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.000 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

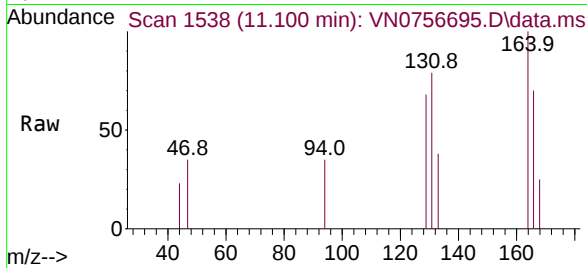
Tgt Ion: 117 Resp: 306253
Ion Ratio Lower Upper
117 100
82 54.1 41.8 62.8
119 33.5 25.8 38.6



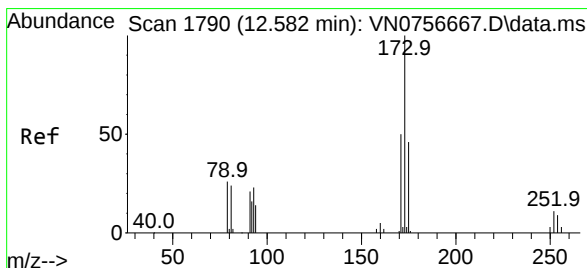
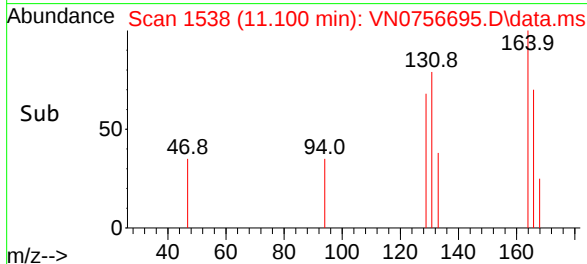
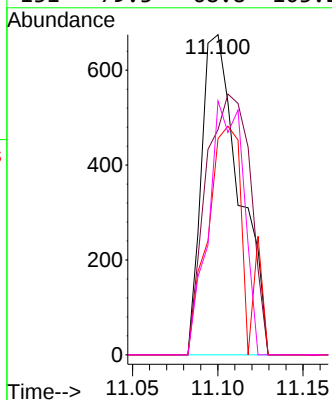


#64
Tetrachloroethene
Concen: 0.469 ug/l
RT: 11.100 min Scan# 1110
Delta R.T. -0.006 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

Instrument :
MSVOA_N
ClientSampleId :

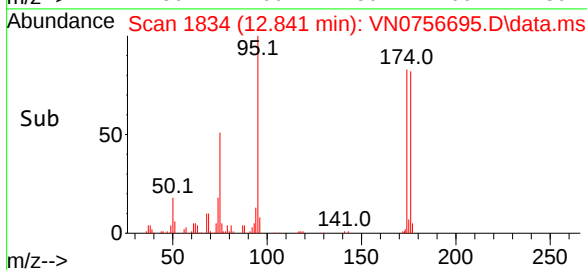
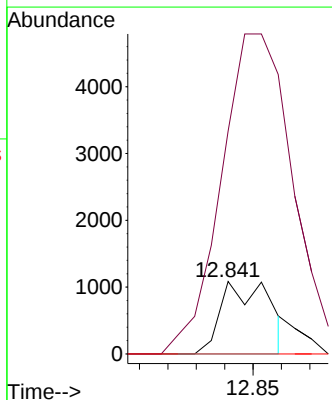
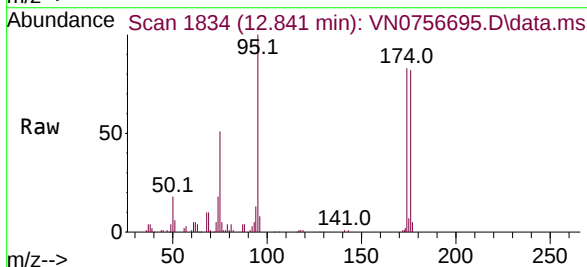


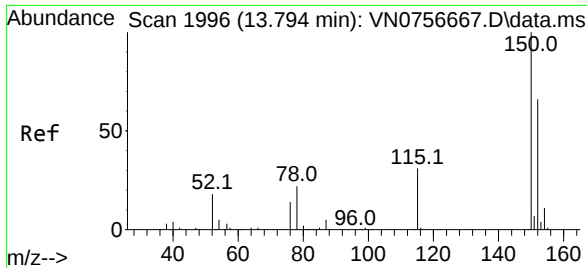
Tgt Ion:164 Resp: 1047
Ion Ratio Lower Upper
164 100
166 70.4 100.3 150.5#
129 67.6 73.9 110.9#
131 79.3 68.8 103.2



#71
Bromoform
Concen: 0.745 ug/l
RT: 12.841 min Scan# 1834
Delta R.T. 0.259 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

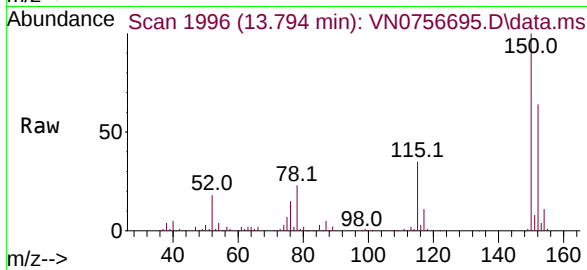
Tgt Ion:173 Resp: 1295
Ion Ratio Lower Upper
173 100
175 533.5 23.8 71.2#
254 0.0 0.0 0.0



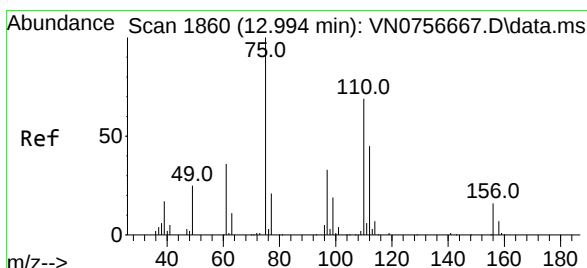
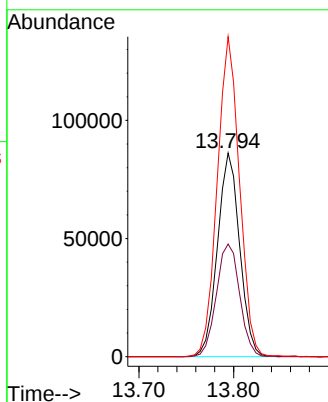
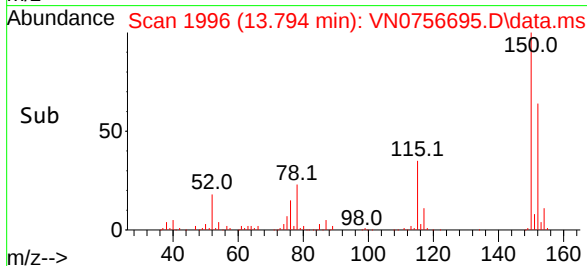


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN0756695.D
 Acq: 10 Dec 2022 07:10

Instrument :
 MSVOA_N
 ClientSampleId :

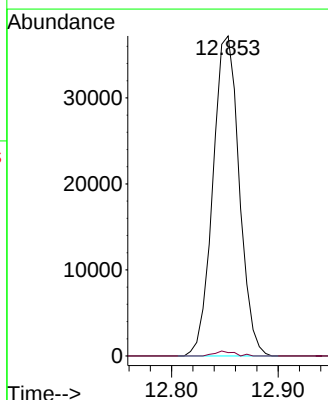
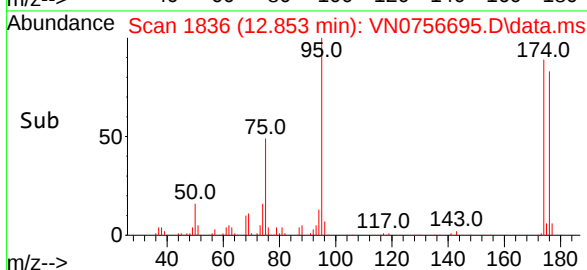
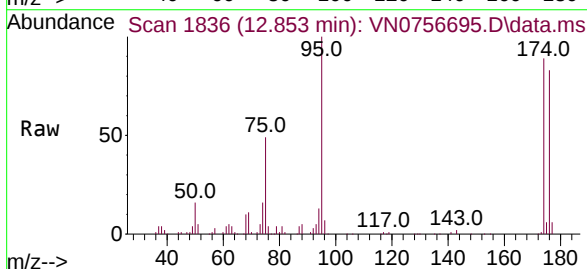


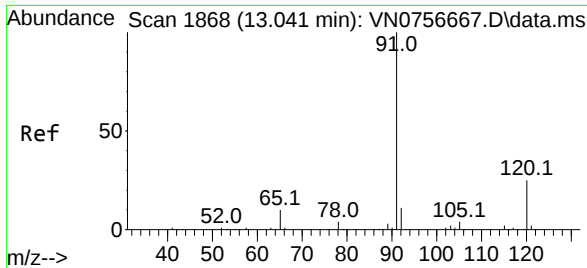
Tgt Ion:152 Resp: 140042
 Ion Ratio Lower Upper
 152 100
 115 58.2 28.4 85.2
 150 157.9 0.0 347.6



#76
 1,2,3-Trichloropropane
 Concen: 22.682 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN0756695.D
 Acq: 10 Dec 2022 07:10

Tgt Ion: 75 Resp: 63791
 Ion Ratio Lower Upper
 75 100
 77 1.1 81.8 245.4#

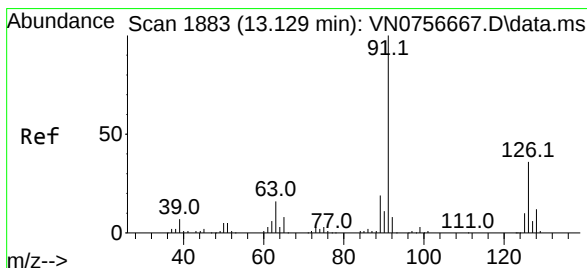
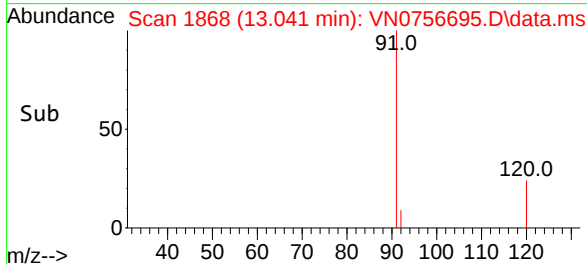
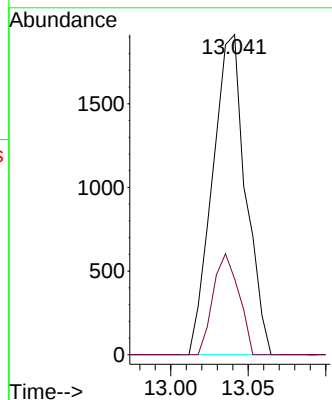
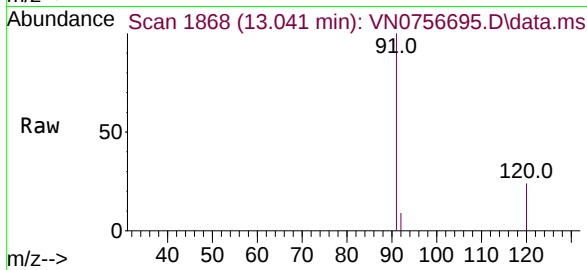




#78
n-propylbenzene
Concen: 0.255 ug/l
RT: 13.041 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

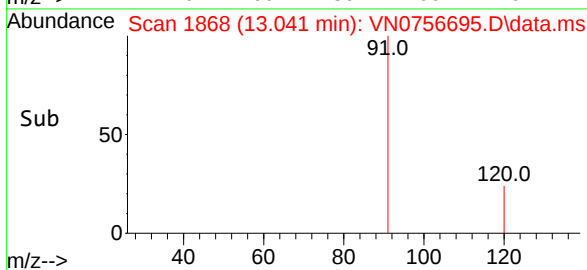
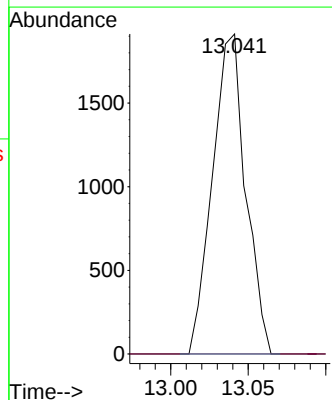
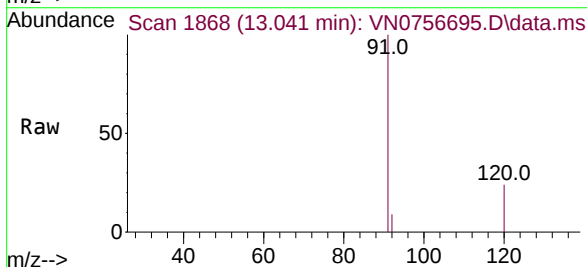
Instrument :
MSVOA_N
ClientSampleId :

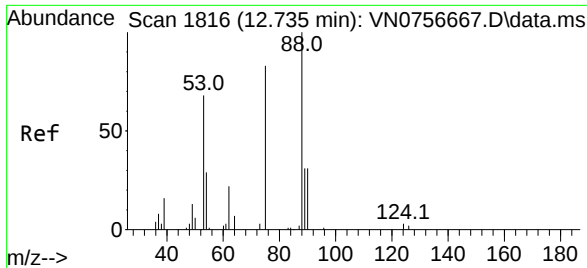
Tgt Ion: 91 Resp: 2847
Ion Ratio Lower Upper
91 100
120 24.4 12.1 36.3



#79
2-Chlorotoluene
Concen: 0.413 ug/l
RT: 13.041 min Scan# 1868
Delta R.T. -0.088 min
Lab File: VN0756695.D
Acq: 10 Dec 2022 07:10

Tgt Ion: 91 Resp: 2847
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 72.617 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.118 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Instrument :

MSVOA_N

ClientSampleId :

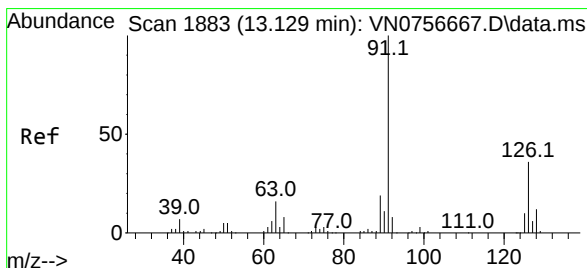
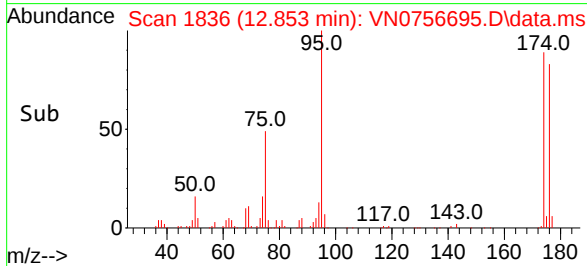
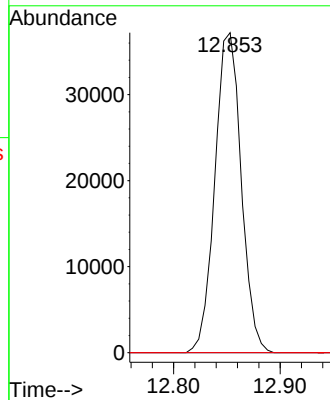
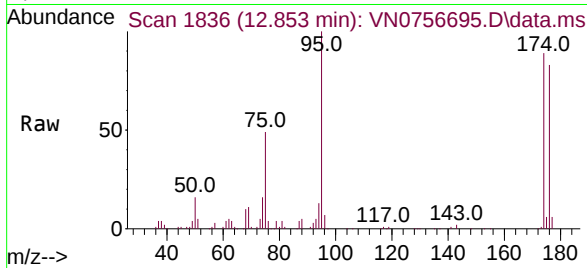
Tgt Ion: 75 Resp: 63791

Ion Ratio Lower Upper

75 100

53 0.0 72.4 108.6#

89 0.0 36.6 55.0#



#82

4-Chlorotoluene

Concen: 0.413 ug/l

RT: 13.041 min Scan# 1868

Delta R.T. -0.088 min

Lab File: VN0756695.D

Acq: 10 Dec 2022 07:10

Tgt Ion: 91 Resp: 2847

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#

