

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086658.D
 Acq On : 15 May 2025 20:25
 Operator : JC\MD
 Sample : Q1966-05 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SILICA-GELDL

Quant Time: May 16 05:34:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

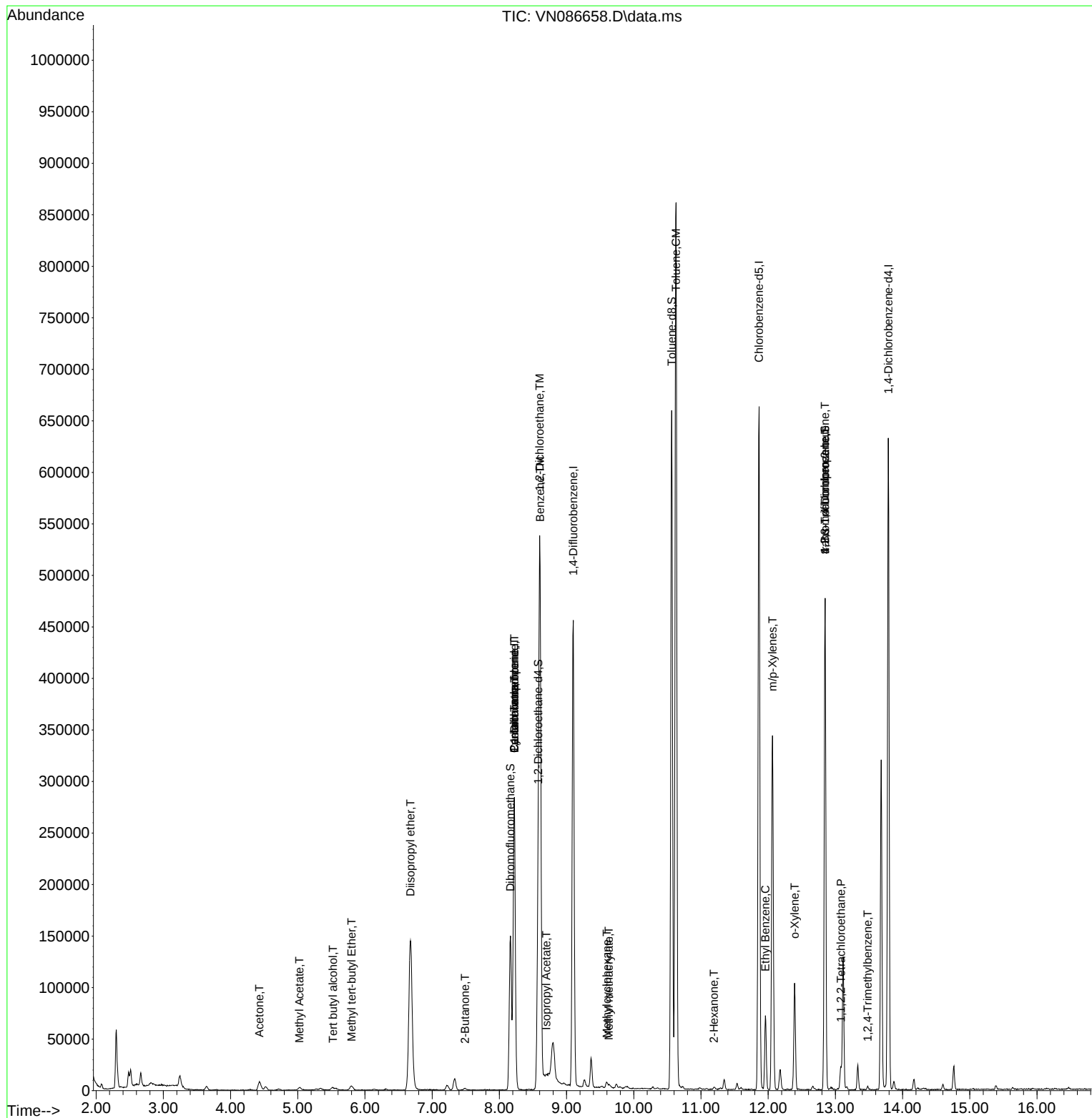
Internal Standards						
1) Pentafluorobenzene	8.224	168	212344	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	405296	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	393725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	174812	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	133877	43.478	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	86.960%	
35) Dibromofluoromethane	8.165	113	112238	59.668	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	119.340%	
50) Toluene-d8	10.565	98	468664	46.619	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	93.240%	
62) 4-Bromofluorobenzene	12.847	95	175687	47.913	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	95.820%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	4919	8.755	ug/l #	79
16) Acetone	4.430	43	16106	9.642	ug/l	94
18) Methyl Acetate	5.024	43	5404	1.462	ug/l	99
19) Methyl tert-butyl Ether	5.800	73	5520	0.601	ug/l #	68
22) Diisopropyl ether	6.677	45	5750	0.595	ug/l #	1
25) 2-Butanone	7.488	43	3608	1.882	ug/l #	78
31) Cyclohexane	8.224	56	7051	1.413	ug/l #	8
36) 1,1-Dichloropropene	8.224	75	17339	4.615	ug/l #	49
38) Carbon Tetrachloride	8.224	117	20930	5.850	ug/l #	16
39) Methylcyclohexane	9.600	83	2477	0.555	ug/l	98
40) Benzene	8.606	78	531813	44.180	ug/l	97
42) 1,2-Dichloroethane	8.600	62	4442	1.157	ug/l	77
43) Isopropyl Acetate	8.700	43	21925	1.256	ug/l #	55
48) Methyl methacrylate	9.629	41	778	0.224	ug/l #	13
52) Toluene	10.629	92	396668	52.811	ug/l	100
59) 2-Hexanone	11.194	43	919	0.306	ug/l #	50
67) Ethyl Benzene	11.959	91	54150	3.415	ug/l	98
68) m/p-Xylenes	12.065	106	113517	19.107	ug/l	95
69) o-Xylene	12.394	106	28280	4.813	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.082	83	1462	0.356	ug/l #	29
76) 1,2,3-Trichloropropane	12.847	75	87819	21.288	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	87819	51.126	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.482	105	2503	0.210	ug/l	96

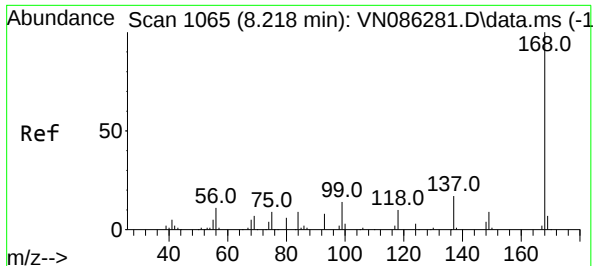
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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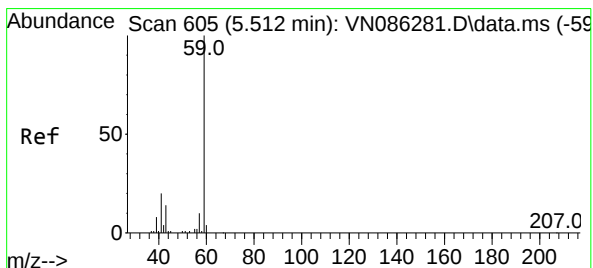
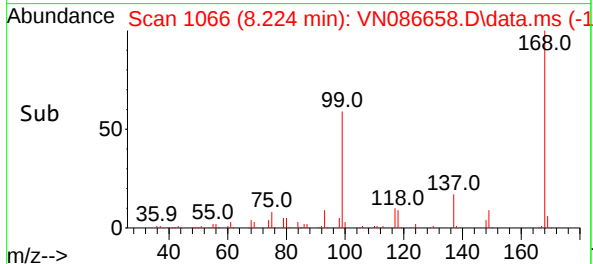
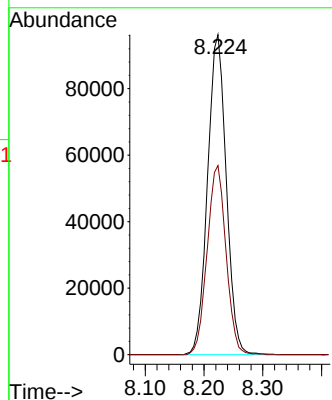
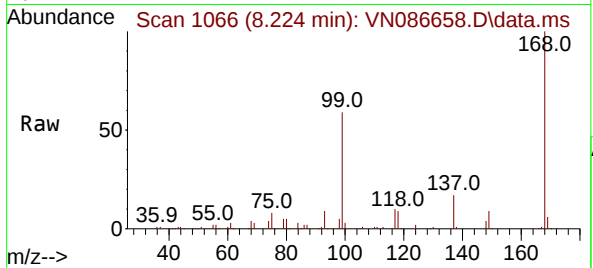




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

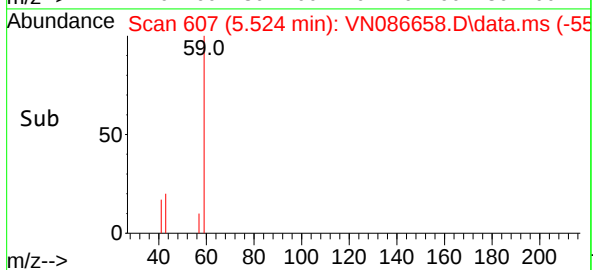
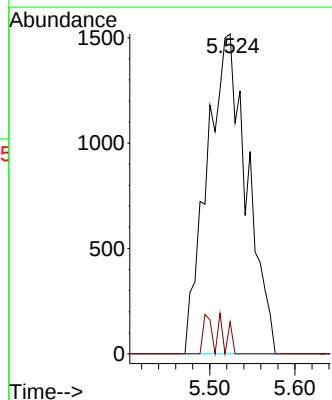
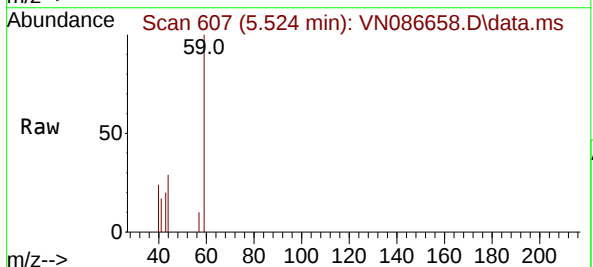
Instrument :
MSVOA_N
ClientSampleId :
SILICA-GELDL

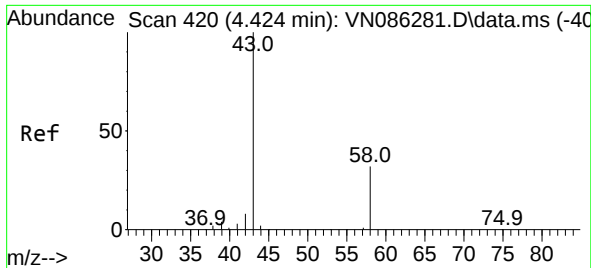
Tgt Ion:168 Resp: 212344
Ion Ratio Lower Upper
168 100
99 59.1 52.5 78.7



#11
Tert butyl alcohol
Concen: 8.755 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 59 Resp: 4919
Ion Ratio Lower Upper
59 100
57 2.5 8.3 12.5#





#16

Acetone

Concen: 9.642 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086658.D

Acq: 15 May 2025 20:25

Instrument :

MSVOA_N

ClientSampleId :

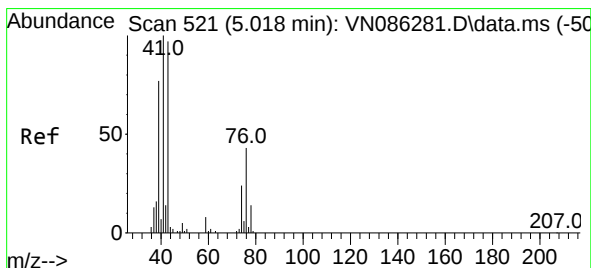
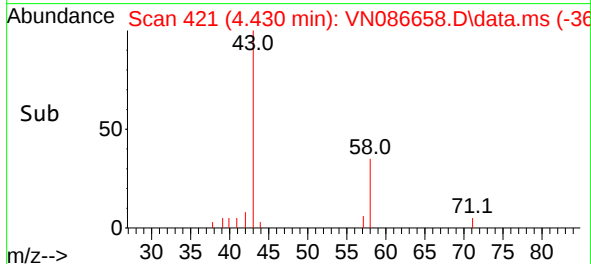
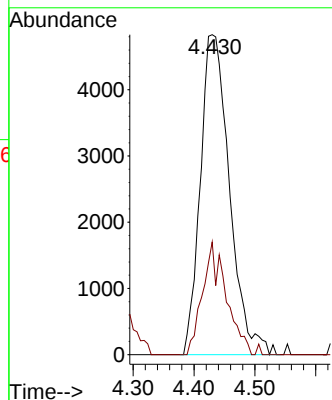
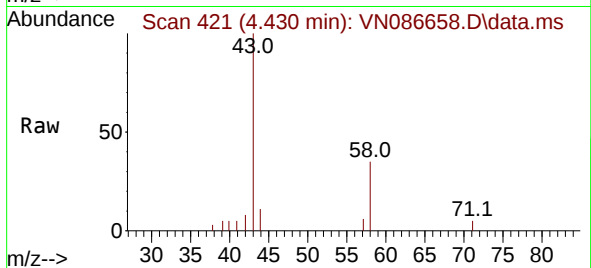
SILICA-GELDL

Tgt Ion: 43 Resp: 16106

Ion Ratio Lower Upper

43 100

58 35.2 25.3 37.9



#18

Methyl Acetate

Concen: 1.462 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086658.D

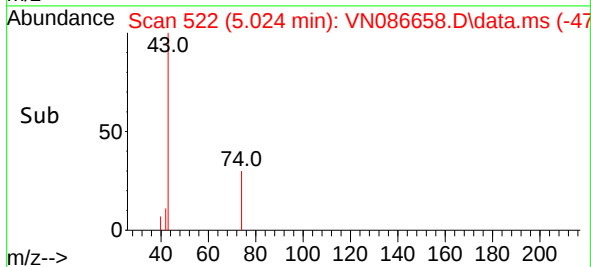
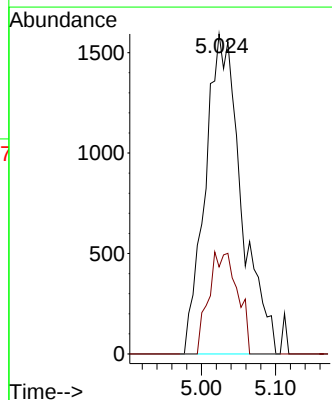
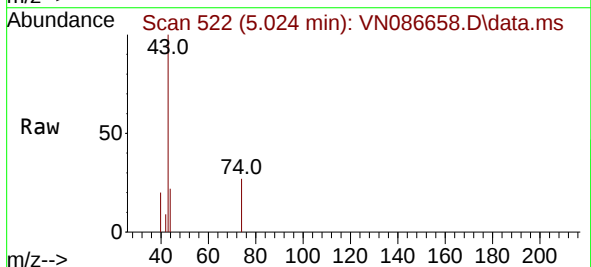
Acq: 15 May 2025 20:25

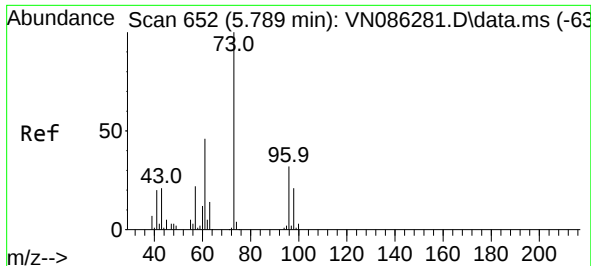
Tgt Ion: 43 Resp: 5404

Ion Ratio Lower Upper

43 100

74 25.4 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 0.601 ug/l

RT: 5.800 min Scan# 61

Delta R.T. 0.012 min

Lab File: VN086658.D

Acq: 15 May 2025 20:25

Instrument :

MSVOA_N

ClientSampleId :

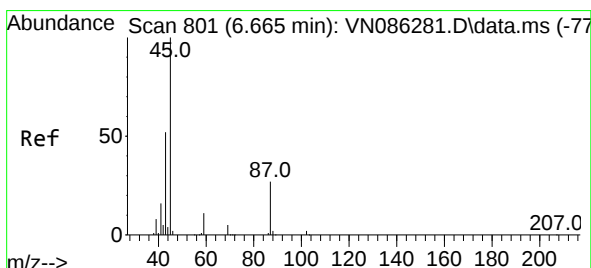
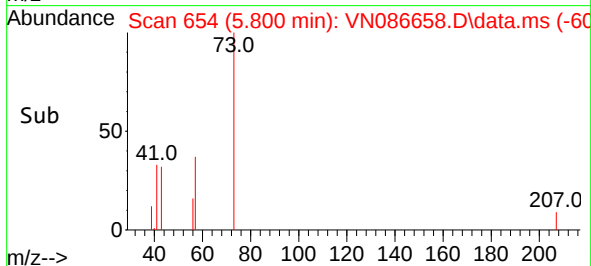
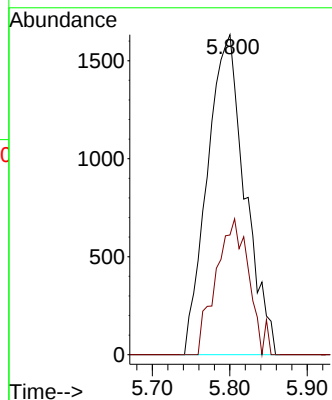
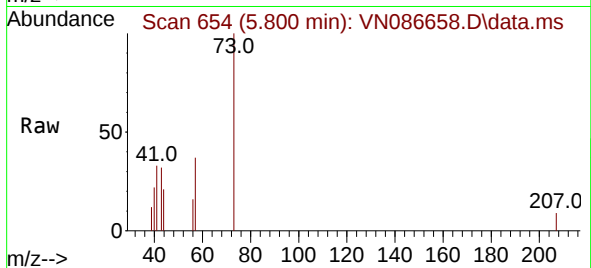
SILICA-GELDL

Tgt Ion: 73 Resp: 5520

Ion Ratio Lower Upper

73 100

57 37.4 17.6 26.4#



#22

Diisopropyl ether

Concen: 0.595 ug/l

RT: 6.677 min Scan# 803

Delta R.T. 0.012 min

Lab File: VN086658.D

Acq: 15 May 2025 20:25

Tgt Ion: 45 Resp: 5750

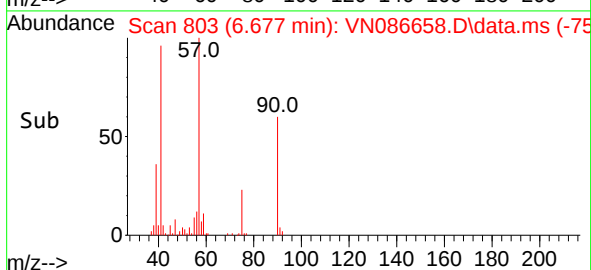
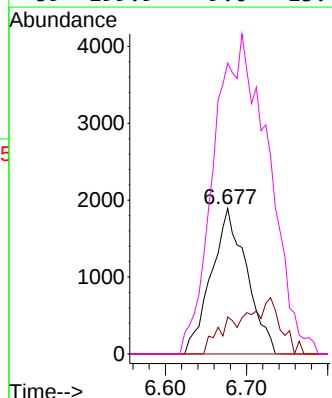
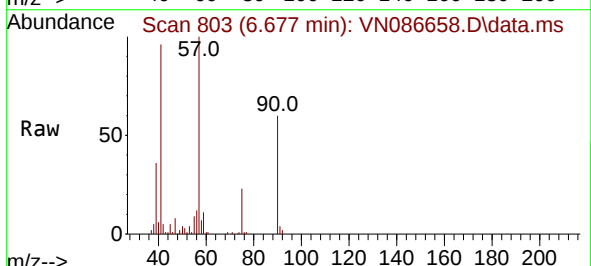
Ion Ratio Lower Upper

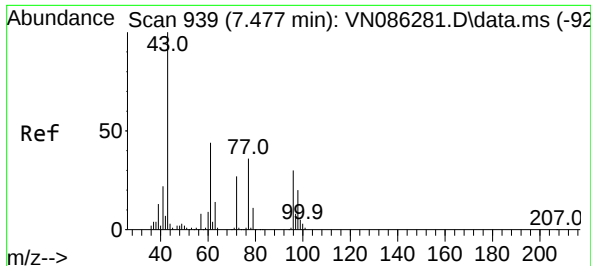
45 100

43 25.4 41.8 62.8#

87 0.0 21.6 32.4#

59 199.9 9.0 13.4#

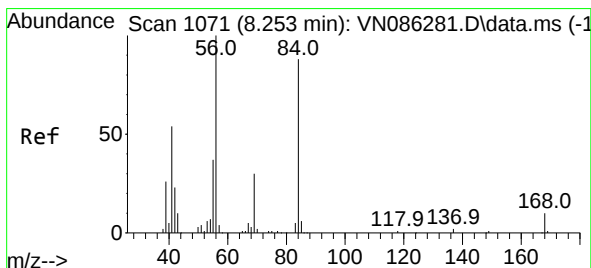
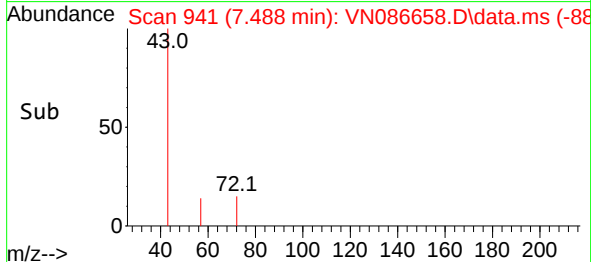
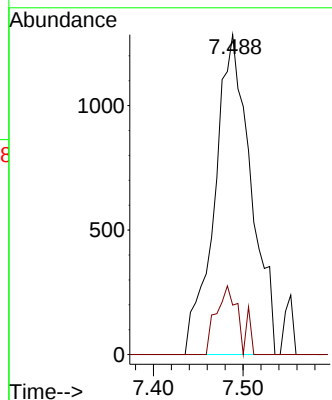
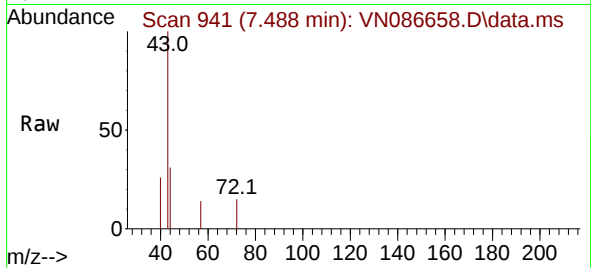




#25
2-Butanone
Concen: 1.882 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

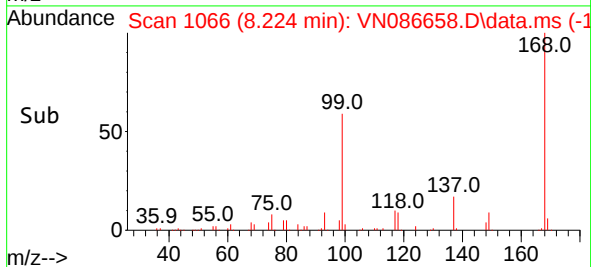
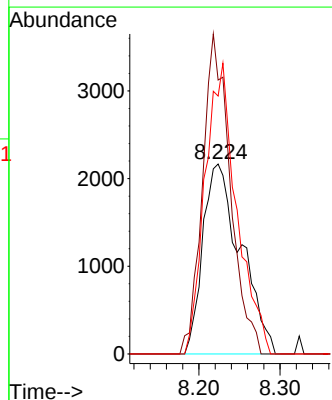
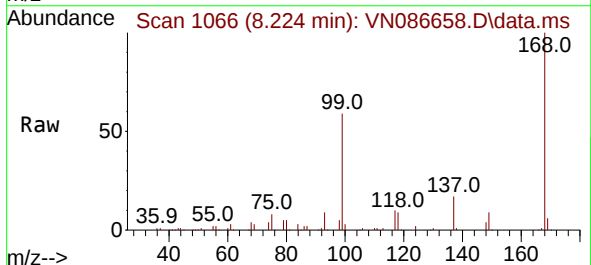
Instrument :
MSVOA_N
ClientSampleId :
SILICA-GELDL

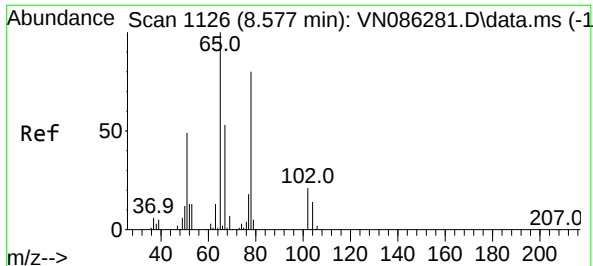
Tgt Ion: 43 Resp: 3608
Ion Ratio Lower Upper
43 100
72 15.5 21.7 32.5#



#31
Cyclohexane
Concen: 1.413 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 56 Resp: 7051
Ion Ratio Lower Upper
56 100
69 144.2 24.2 36.2#
84 135.8 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 43.478 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086658.D

Acq: 15 May 2025 20:25

Instrument :

MSVOA_N

ClientSampleId :

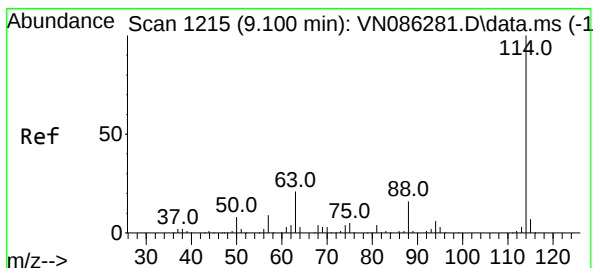
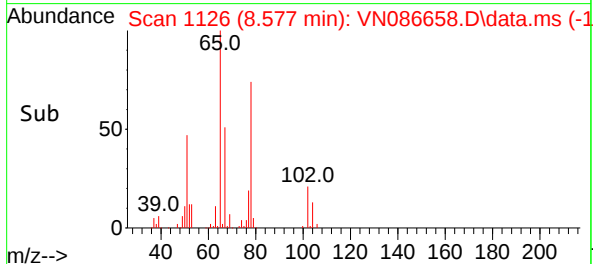
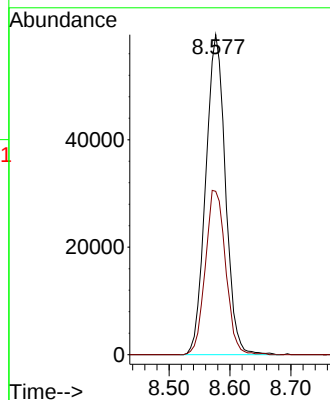
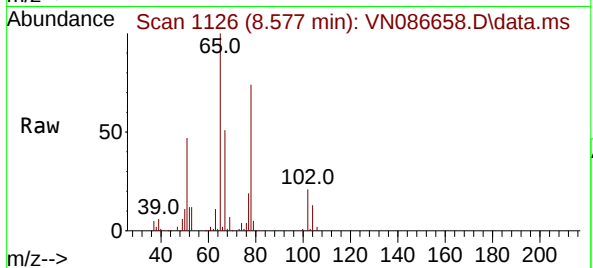
SILICA-GELDL

Tgt Ion: 65 Resp: 133877

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086658.D

Acq: 15 May 2025 20:25

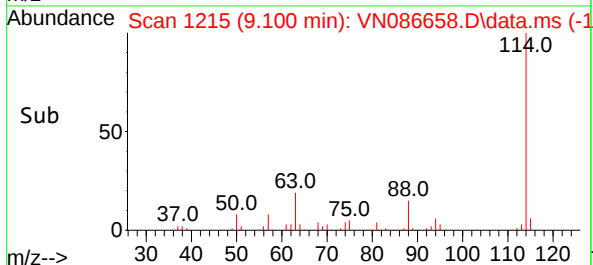
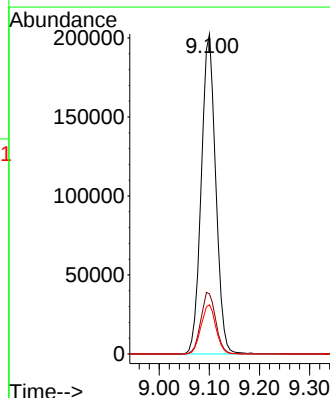
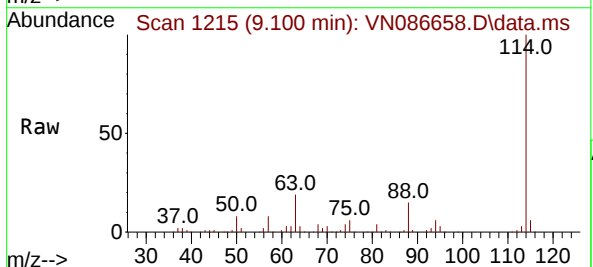
Tgt Ion: 114 Resp: 405296

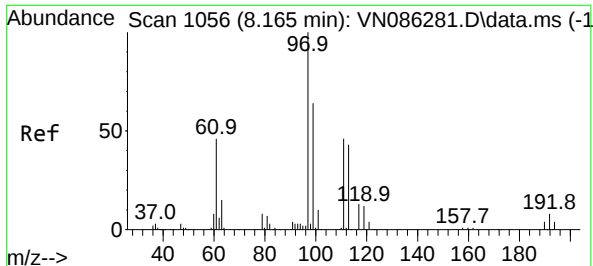
Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.6

88 15.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 59.668 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086658.D

Acq: 15 May 2025 20:25

Instrument :

MSVOA_N

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SILICA-GELDL

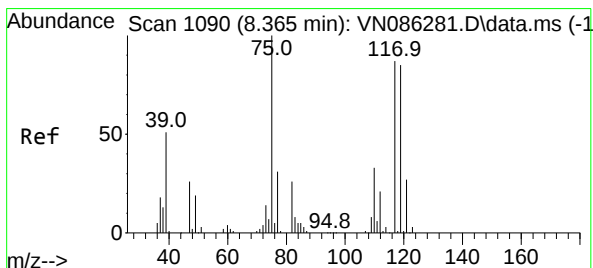
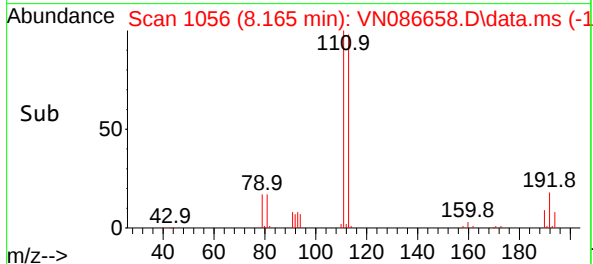
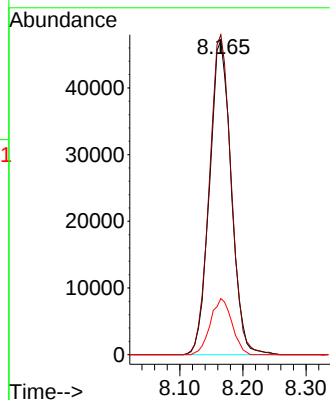
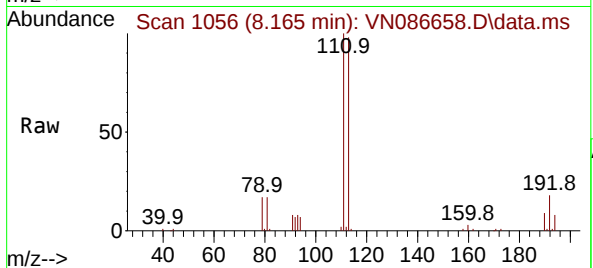
Tgt Ion:113 Resp: 112238

Ion Ratio Lower Upper

113 100

111 102.4 83.4 125.0

192 17.7 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.615 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086658.D

Acq: 15 May 2025 20:25

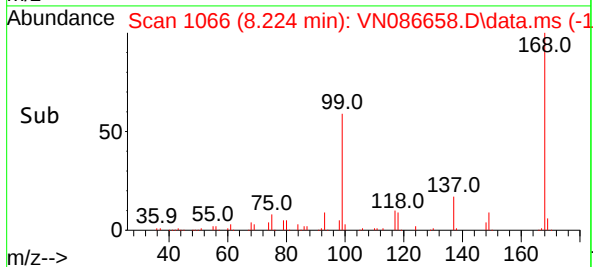
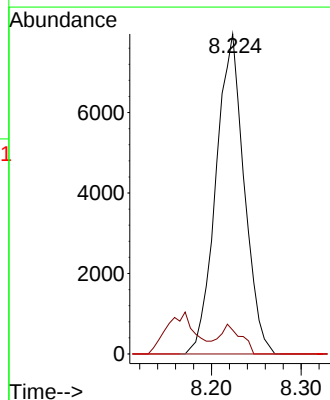
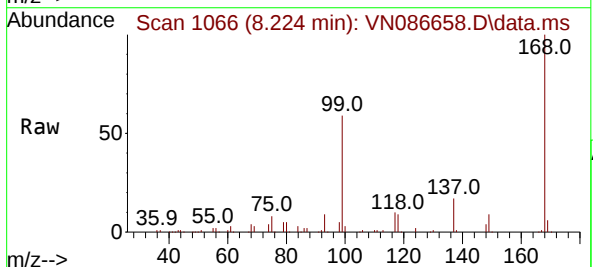
Tgt Ion: 75 Resp: 17339

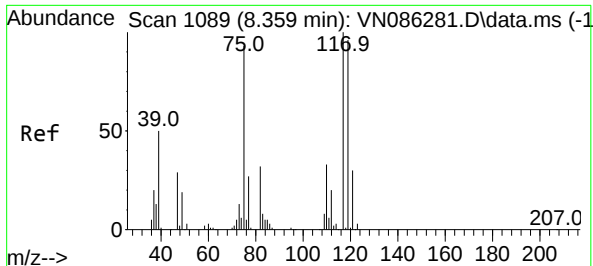
Ion Ratio Lower Upper

75 100

110 6.9 16.8 50.4#

77 0.0 24.9 37.3#

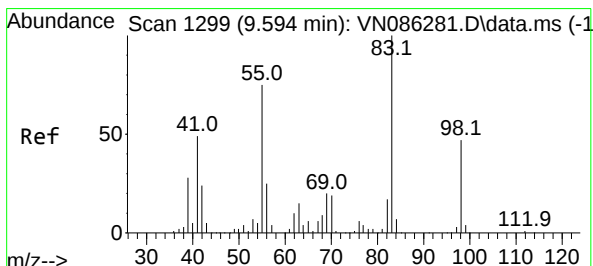
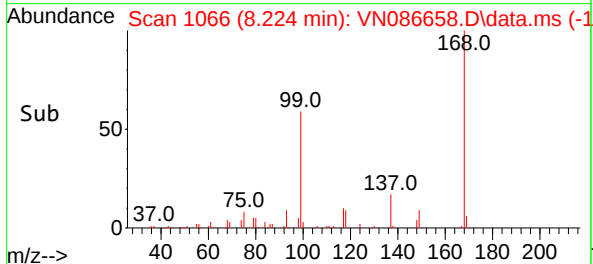
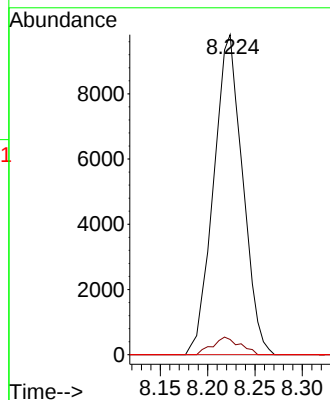
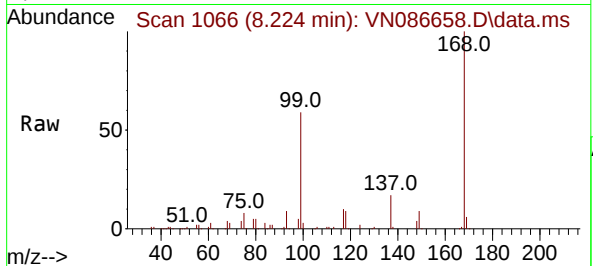




#38
Carbon Tetrachloride
Concen: 5.850 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

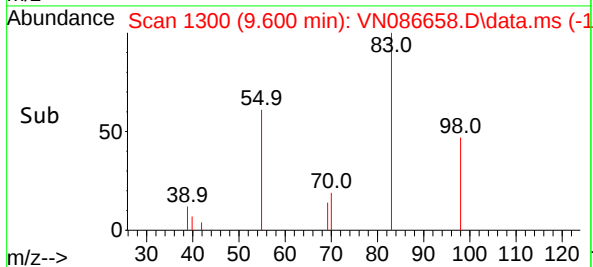
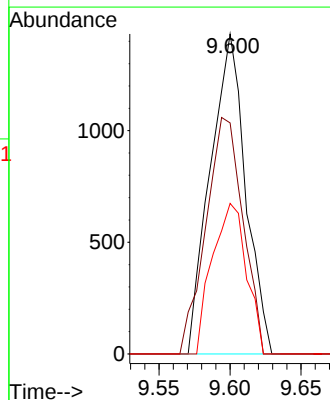
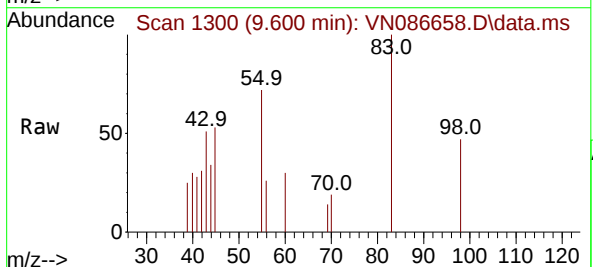
Instrument :
MSVOA_N
ClientSampleId :
SILICA-GELDL

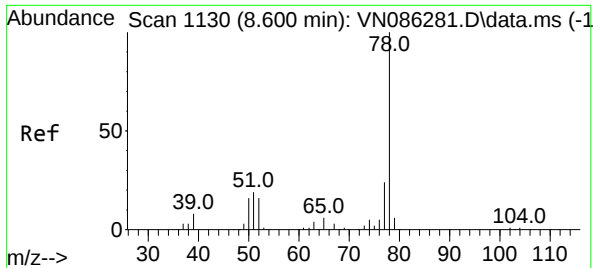
Tgt Ion:117 Resp: 20930
Ion Ratio Lower Upper
117 100
119 4.8 76.8 115.2#
121 0.0 23.8 35.8#



#39
Methylcyclohexane
Concen: 0.555 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.006 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 83 Resp: 2477
Ion Ratio Lower Upper
83 100
55 72.2 59.8 89.8
98 47.0 37.9 56.9

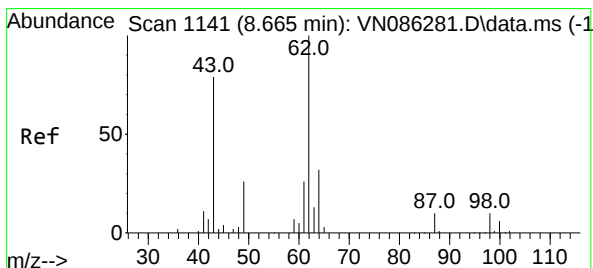
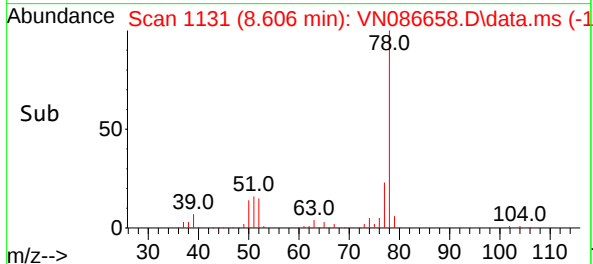
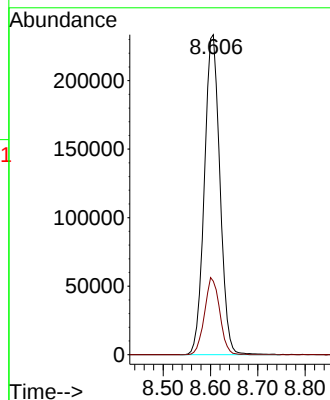
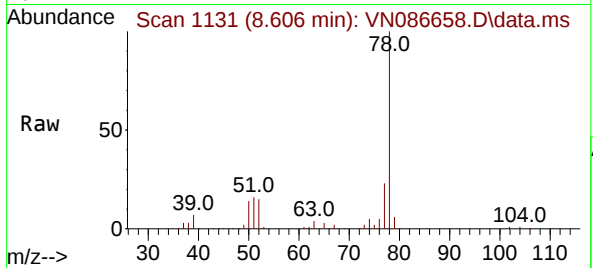




#40
Benzene
Concen: 44.180 ug/l
RT: 8.606 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

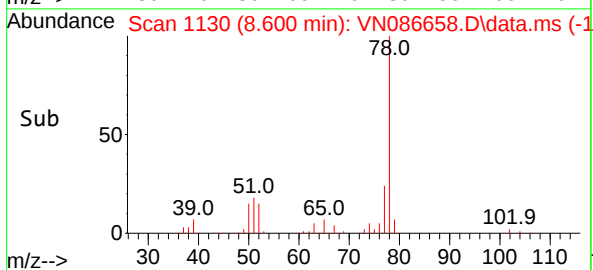
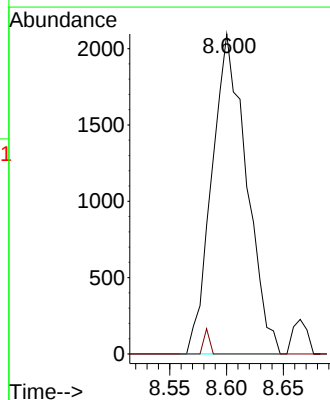
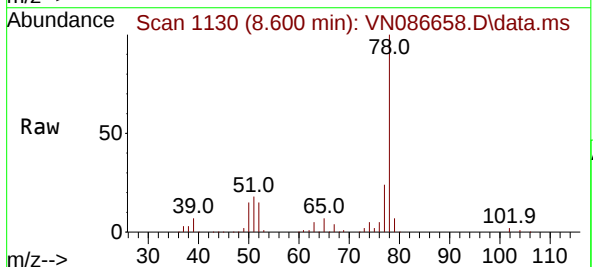
Instrument :
MSVOA_N
ClientSampleId :
SILICA-GELDL

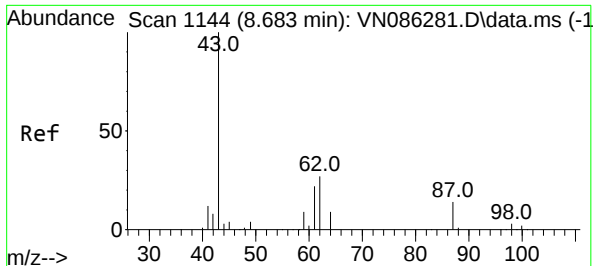
Tgt Ion: 78 Resp: 531813
Ion Ratio Lower Upper
78 100
77 23.0 19.4 29.2



#42
1,2-Dichloroethane
Concen: 1.157 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.065 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 62 Resp: 4442
Ion Ratio Lower Upper
62 100
98 1.3 0.0 19.2

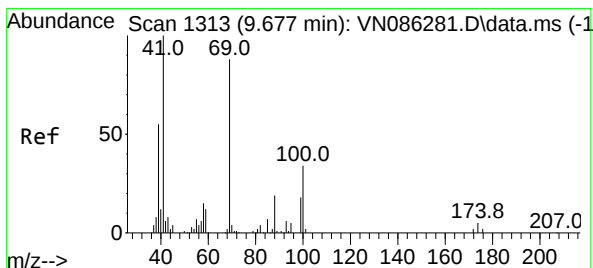
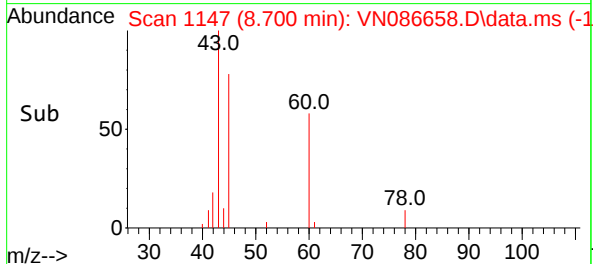
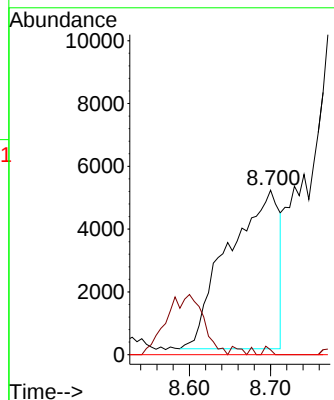
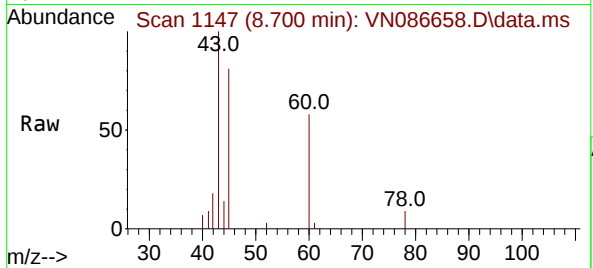




#43
Isopropyl Acetate
Concen: 1.256 ug/l
RT: 8.700 min Scan# 1144
Delta R.T. 0.017 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

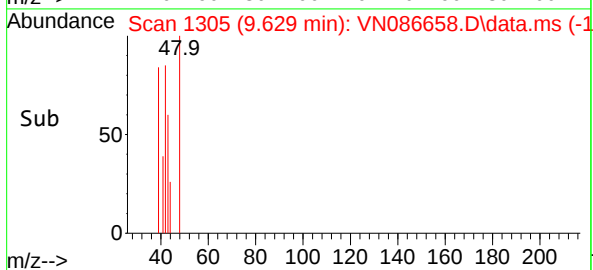
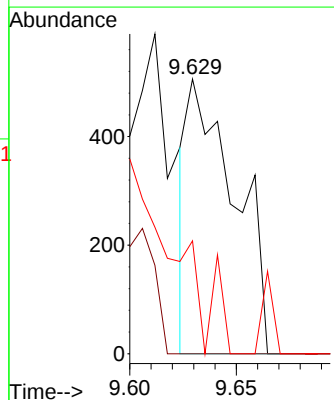
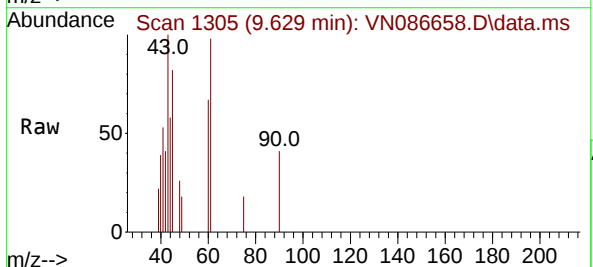
Instrument :
MSVOA_N
ClientSampleId :
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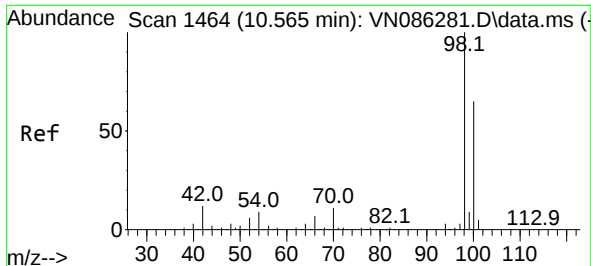
Tgt Ion: 43 Resp: 21925
Ion Ratio Lower Upper
43 100
61 0.0 20.5 30.7#
87 0.0 10.5 15.7#



#48
Methyl methacrylate
Concen: 0.224 ug/l
RT: 9.629 min Scan# 1305
Delta R.T. -0.047 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 41 Resp: 778
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 0.0 45.2 67.8#

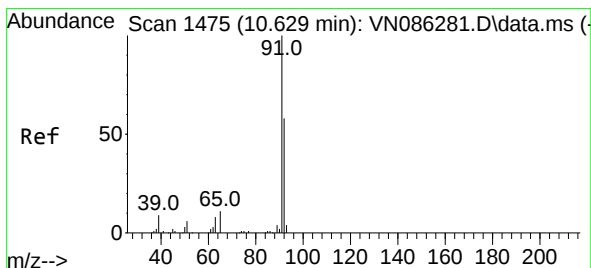
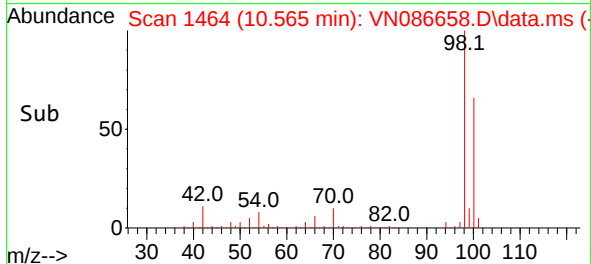
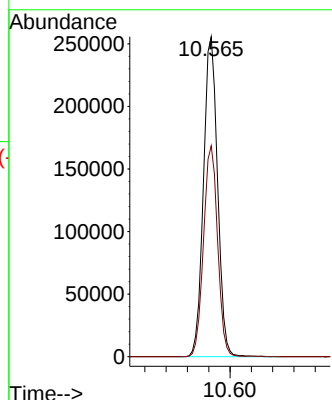
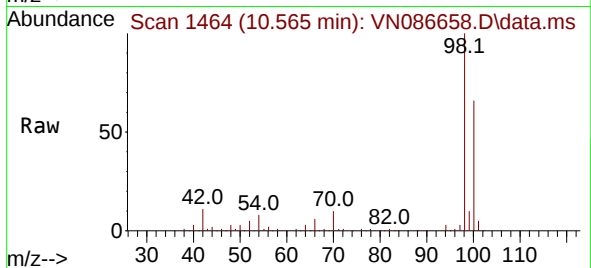




#50
Toluene-d8
Concen: 46.619 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

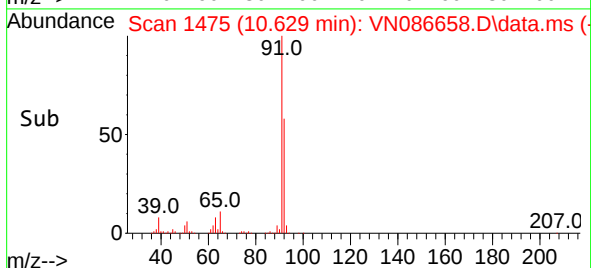
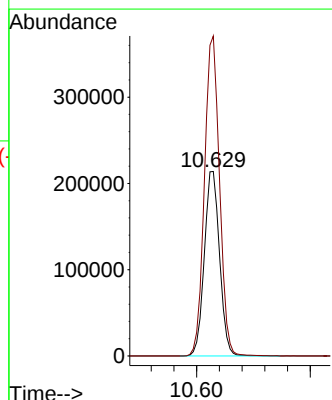
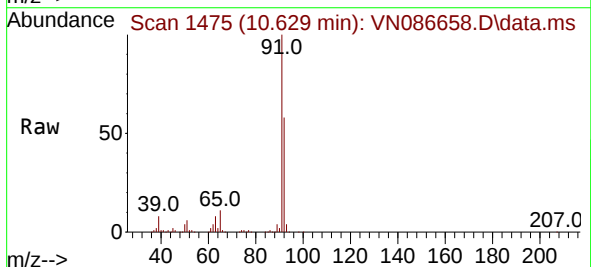
Instrument :
MSVOA_N
ClientSampleId :
SILICA-GELDL

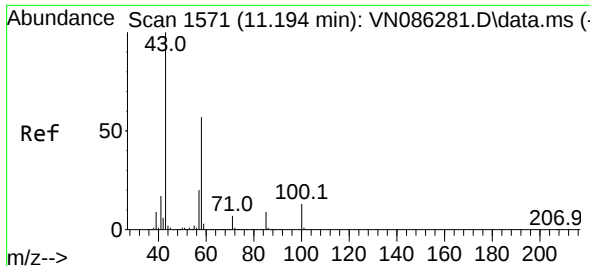
Tgt Ion: 98 Resp: 468664
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#52
Toluene
Concen: 52.811 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 92 Resp: 396668
Ion Ratio Lower Upper
92 100
91 171.8 137.3 205.9

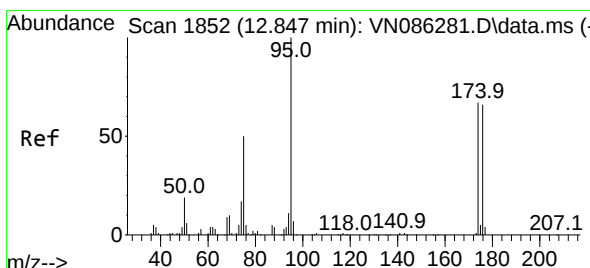
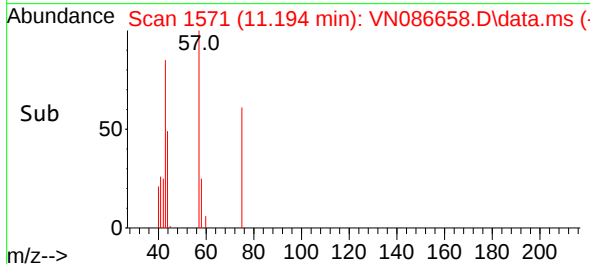
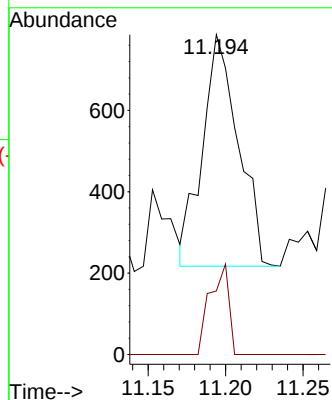
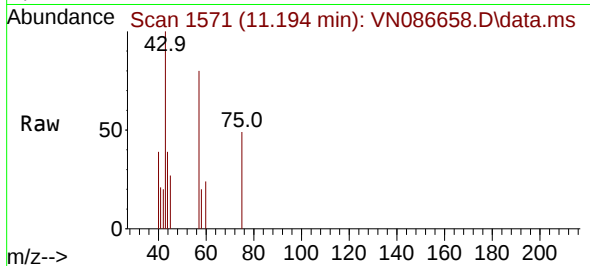




#59
2-Hexanone
Concen: 0.306 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

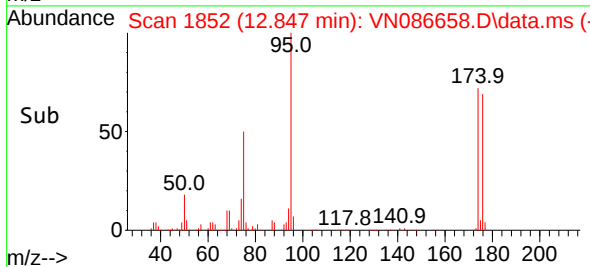
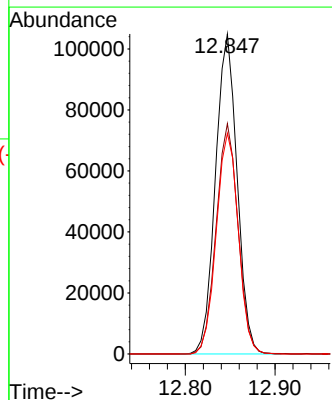
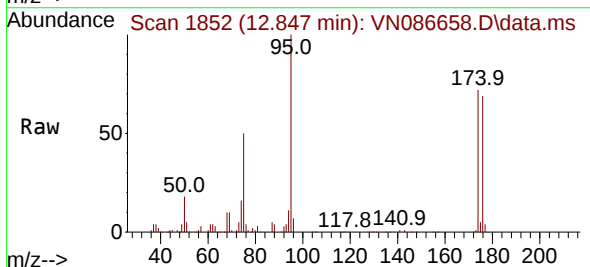
Instrument :
MSVOA_N
ClientSampleId :
SILICA-GELDL

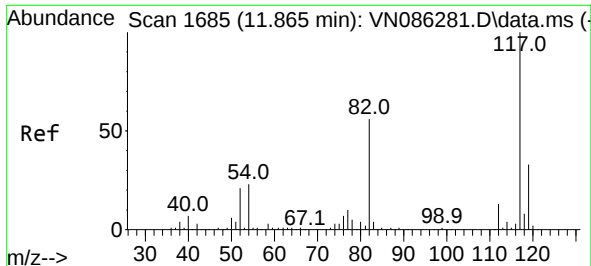
Tgt Ion: 43 Resp: 919
Ion Ratio Lower Upper
43 100
58 20.2 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 47.913 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 95 Resp: 175687
Ion Ratio Lower Upper
95 100
174 72.7 0.0 133.4
176 70.2 0.0 129.2

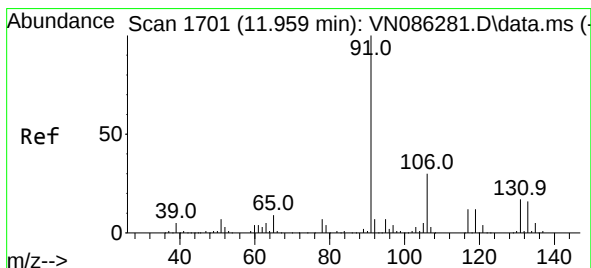
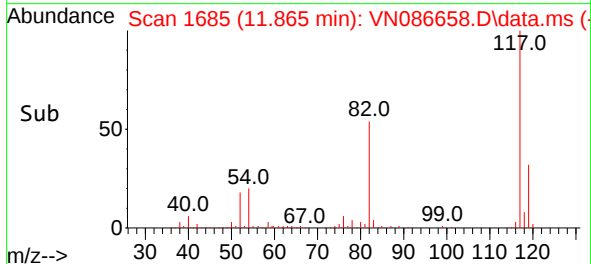
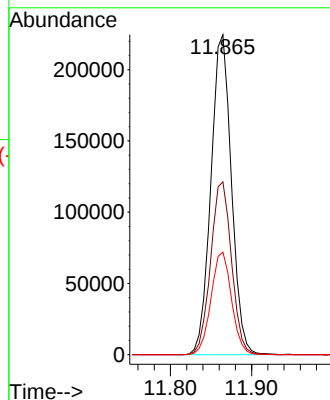
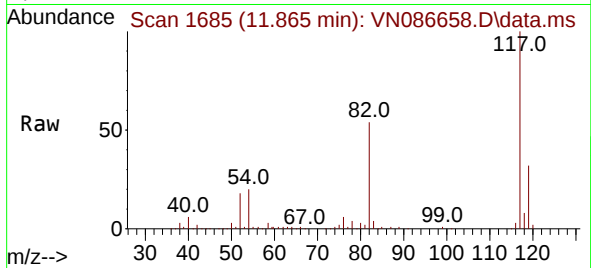




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

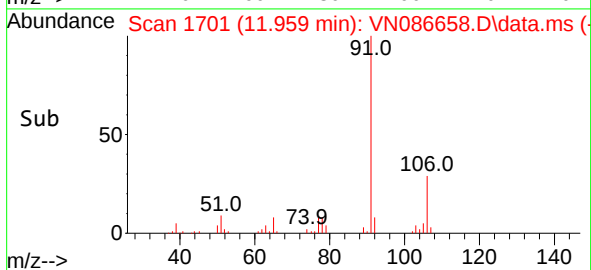
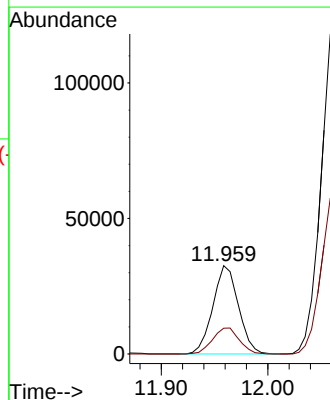
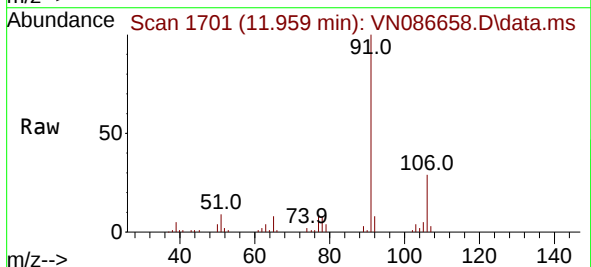
Instrument :
MSVOA_N
ClientSampleId :
SILICA-GELDL

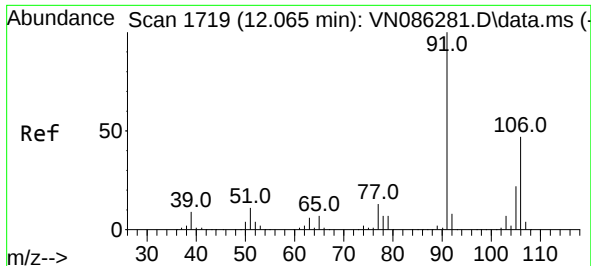
Tgt Ion:117 Resp: 393725
Ion Ratio Lower Upper
117 100
82 54.0 44.7 67.1
119 32.1 26.4 39.6



#67
Ethyl Benzene
Concen: 3.415 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 91 Resp: 54150
Ion Ratio Lower Upper
91 100
106 29.1 24.3 36.5

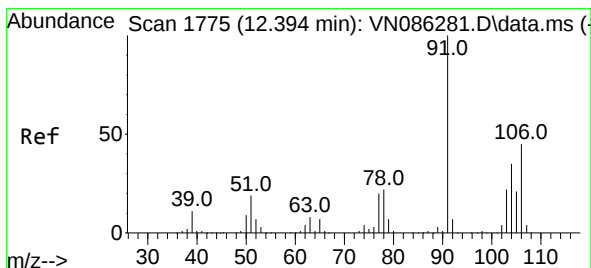
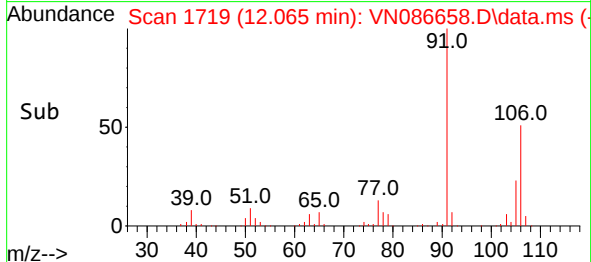
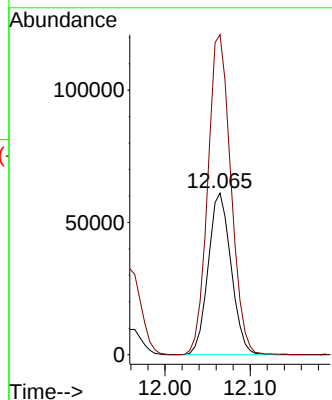
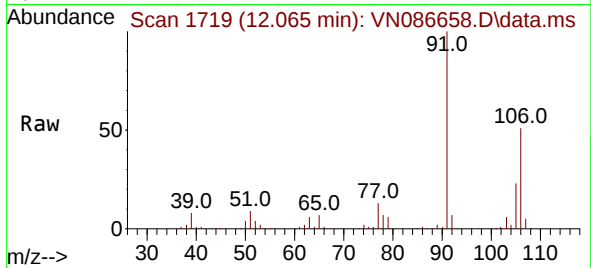




#68
m/p-Xylenes
Concen: 19.107 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

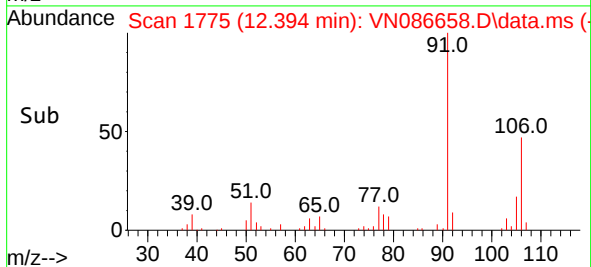
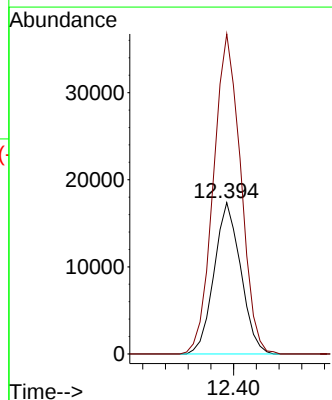
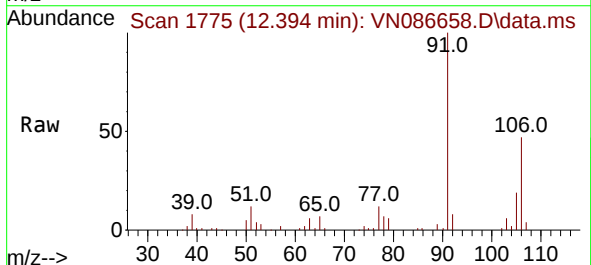
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MSVOA_N
ClientSampleId :
SILICA-GELDL

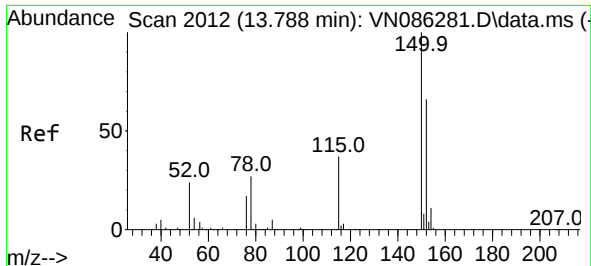
Tgt Ion:106 Resp: 113517
Ion Ratio Lower Upper
106 100
91 200.6 166.5 249.7



#69
o-Xylene
Concen: 4.813 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion:106 Resp: 28280
Ion Ratio Lower Upper
106 100
91 216.4 109.7 329.0

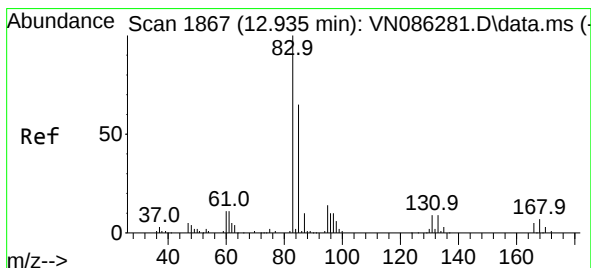
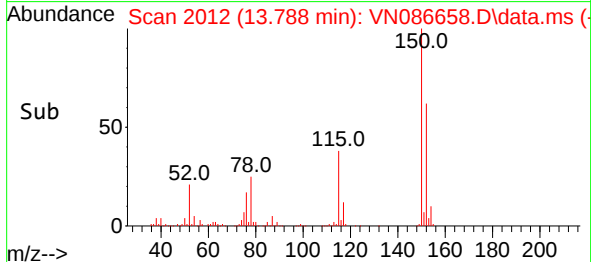
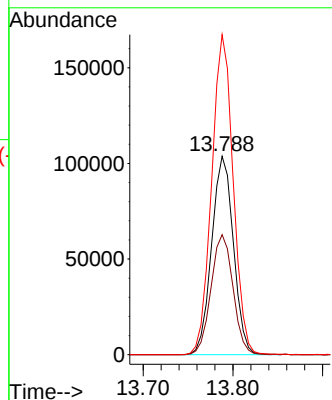
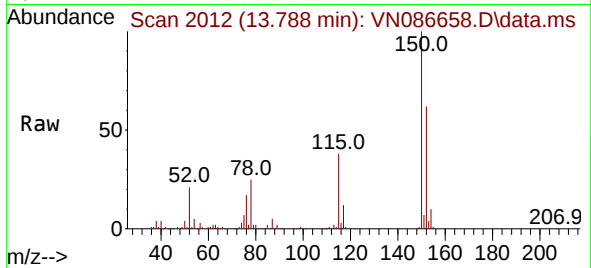




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086658.D
 Acq: 15 May 2025 20:25

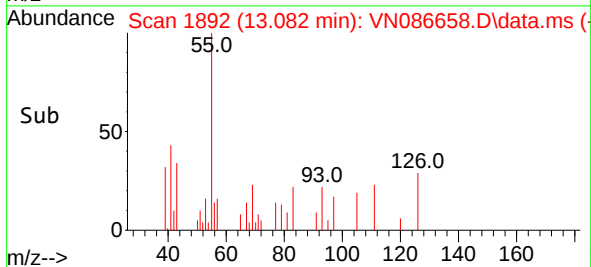
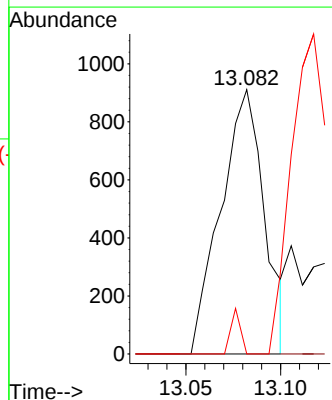
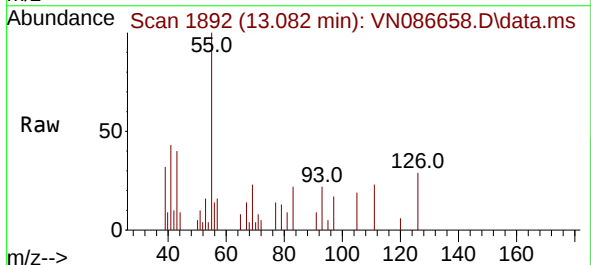
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 SILICA-GELDL

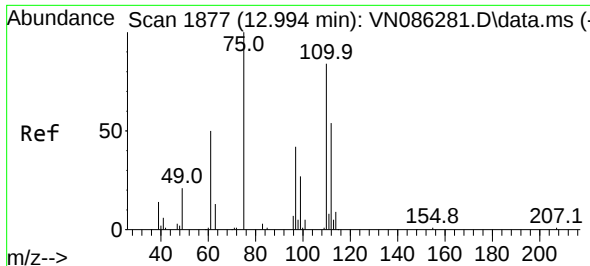
Tgt Ion:152 Resp: 174812
 Ion Ratio Lower Upper
 152 100
 115 61.1 31.9 95.9
 150 159.1 0.0 352.0



#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.356 ug/l
 RT: 13.082 min Scan# 1892
 Delta R.T. 0.147 min
 Lab File: VN086658.D
 Acq: 15 May 2025 20:25

Tgt Ion: 83 Resp: 1462
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.7 14.1#
 85 3.8 32.7 98.1#

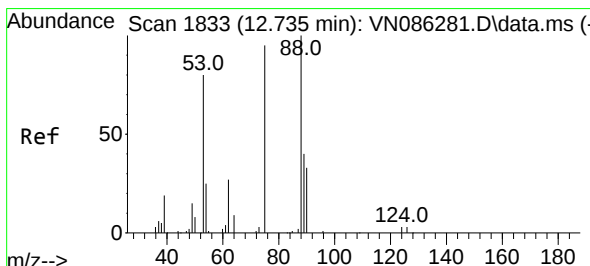
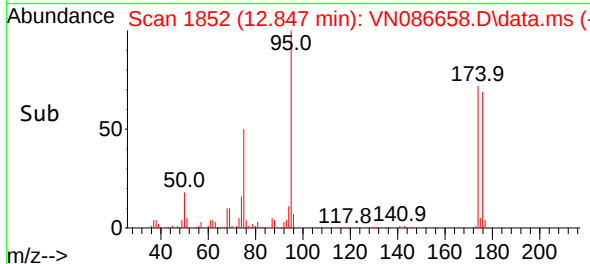
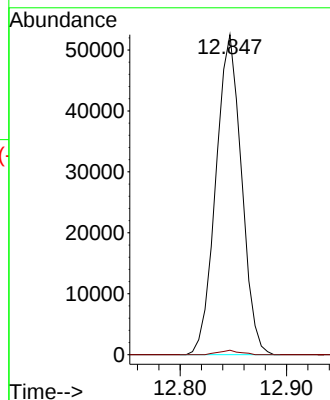
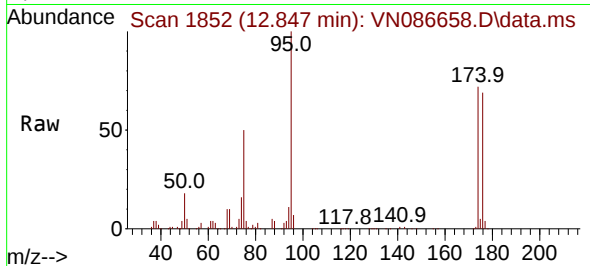




#76
1,2,3-Trichloropropane
Concen: 21.288 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

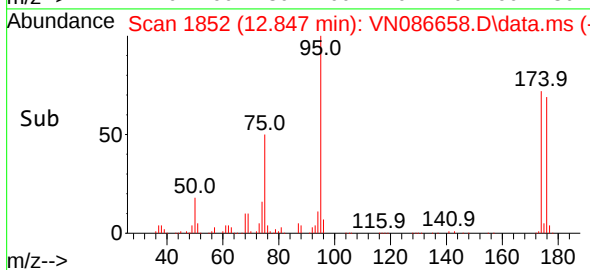
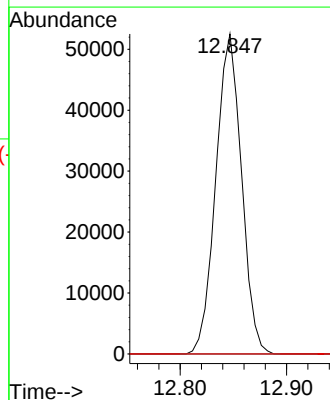
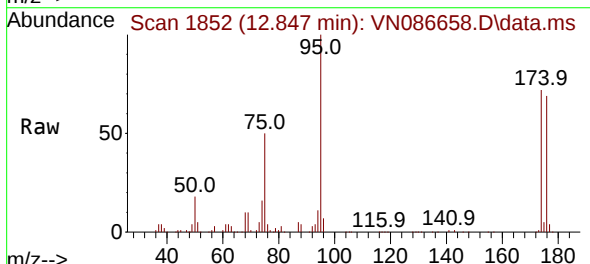
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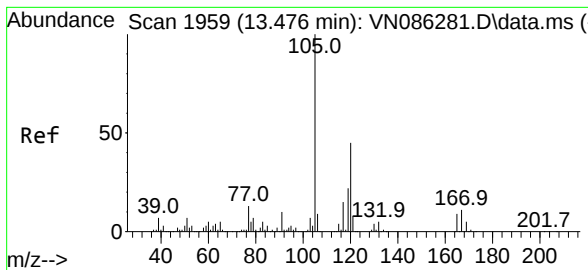
Tgt Ion: 75 Resp: 87819
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 51.126 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086658.D
Acq: 15 May 2025 20:25

Tgt Ion: 75 Resp: 87819
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#





#84
 1,2,4-Trimethylbenzene
 Concen: 0.210 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.006 min
 Lab File: VN086658.D
 Acq: 15 May 2025 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 SILICA-GELDL

Tgt Ion:105 Resp: 2503
 Ion Ratio Lower Upper
 105 100
 120 47.6 22.4 67.3

