

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051525\
 Data File : VD080354.D
 Acq On : 15 May 2025 17:44
 Operator : RP/MD
 Sample : Q2014-01
 Misc : 4.48G/10ml/MSVOA_D/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0134

Quant Time: May 16 03:00:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 07 08:57:11 2025
 Response via : Initial Calibration

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

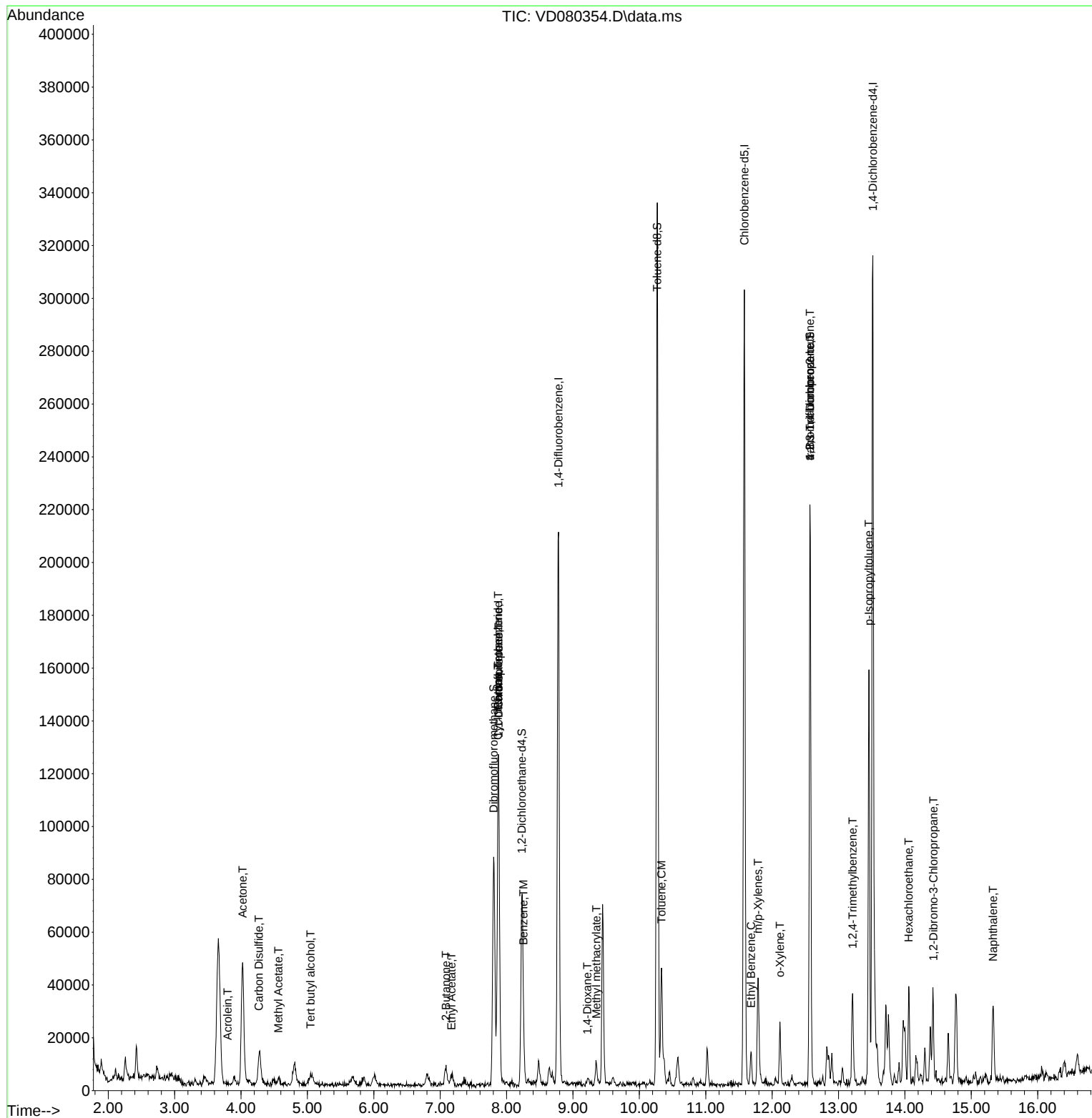
Internal Standards						
1) Pentafluorobenzene	7.876	168	92442	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.782	114	181259	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	169362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	86392	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	55550	46.469	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	92.940%		
35) Dibromofluoromethane	7.805	113	62386	51.352	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	102.700%		
50) Toluene-d8	10.270	98	230955	48.249	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.500%		
62) 4-Bromofluorobenzene	12.570	95	67074	43.657	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	87.320%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.947	85	64	Below Cal	#	43
3) Chloromethane	2.153	50	122	Below Cal		91
11) Tert butyl alcohol	5.047	59	4498	62.007	ug/l #	48
13) Acrolein	3.800	56	375	2.938	ug/l #	75
16) Acetone	4.023	43	79989	438.261	ug/l	100
17) Carbon Disulfide	4.270	76	19702	5.069	ug/l #	94
18) Methyl Acetate	4.564	43	4834	6.249	ug/l #	77
25) 2-Butanone	7.088	43	10556	32.093	ug/l	91
31) Cyclohexane	7.870	56	2899	1.493	ug/l #	34
36) 1,1-Dichloropropene	7.882	75	8308	4.576	ug/l #	46
37) Ethyl Acetate	7.170	43	6056	6.379	ug/l #	74
38) Carbon Tetrachloride	7.876	117	9242	4.881	ug/l #	19
40) Benzene	8.252	78	8768	1.541	ug/l	92
48) Methyl methacrylate	9.352	41	2810	3.435	ug/l #	30
49) 1,4-Dioxane	9.217	88	57	6.035	ug/l #	1
52) Toluene	10.335	92	17893	5.221	ug/l	99
67) Ethyl Benzene	11.682	91	7983	1.249	ug/l	96
68) m/p-Xylenes	11.788	106	12081	4.869	ug/l	95
69) o-Xylene	12.117	106	5338	2.354	ug/l	96
76) 1,2,3-Trichloropropane	12.570	75	34540	41.425	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	34540	78.632	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.211	105	18017	3.684	ug/l	99
86) p-Isopropyltoluene	13.458	119	80663	15.604	ug/l	99
90) Hexachloroethane	14.058	117	2326	2.034	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.429	75	322	1.639	ug/l #	2
95) Naphthalene	15.329	128	27020	8.689	ug/l	96

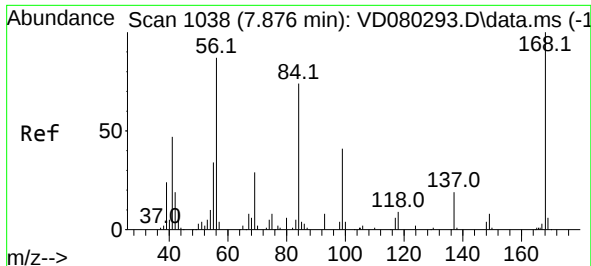
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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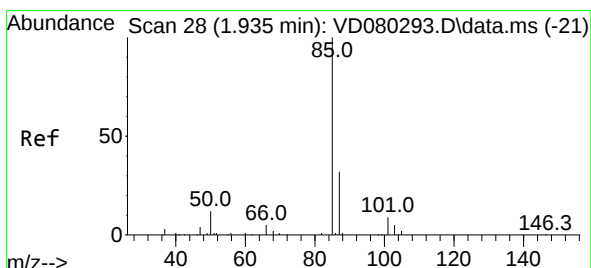
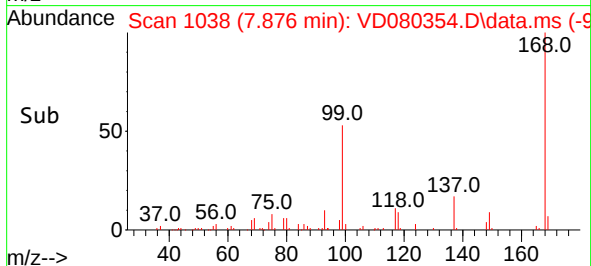
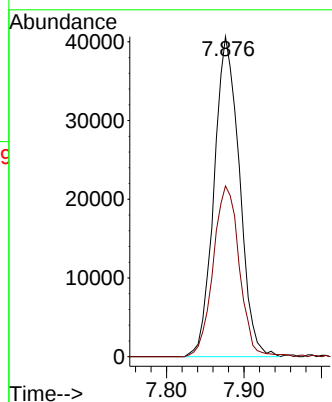
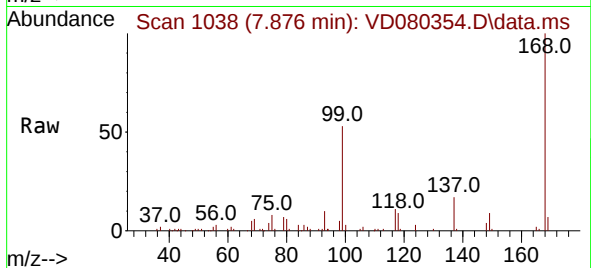




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 10
Delta R.T. 0.001 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

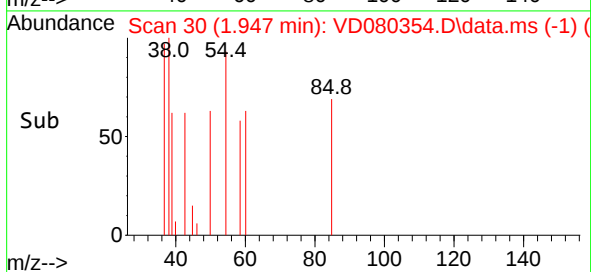
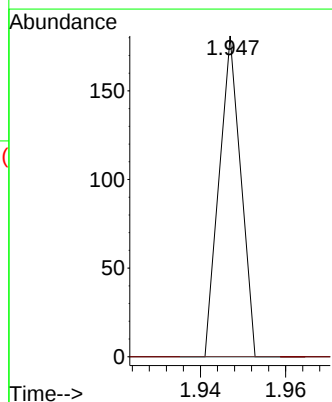
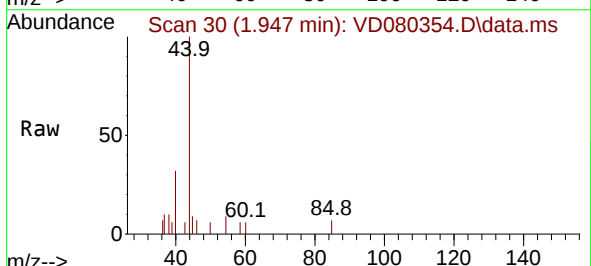
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

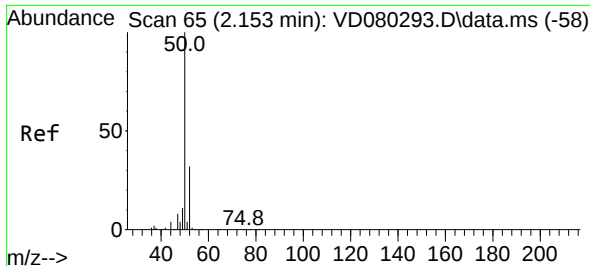
Tgt Ion:168 Resp: 92442
Ion Ratio Lower Upper
168 100
99 53.3 46.0 69.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.947 min Scan# 30
Delta R.T. 0.013 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 85 Resp: 64
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

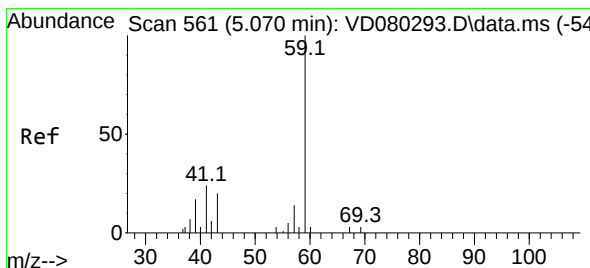
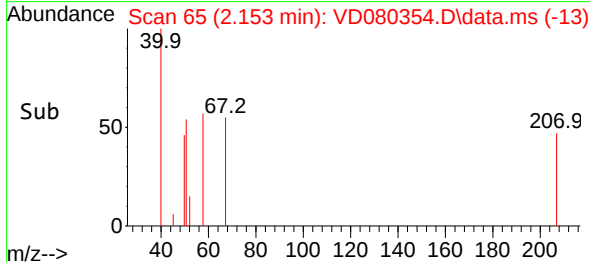
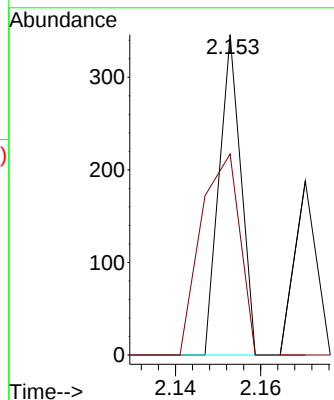
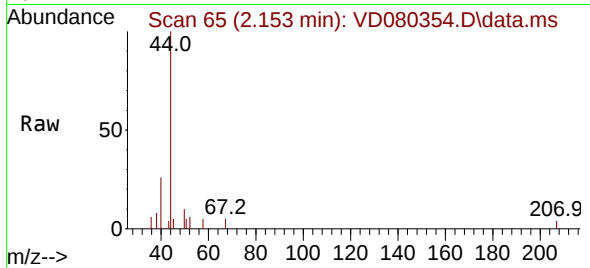




#3
Chloromethane
Concen: Below Cal
RT: 2.153 min Scan# 61
Delta R.T. 0.007 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

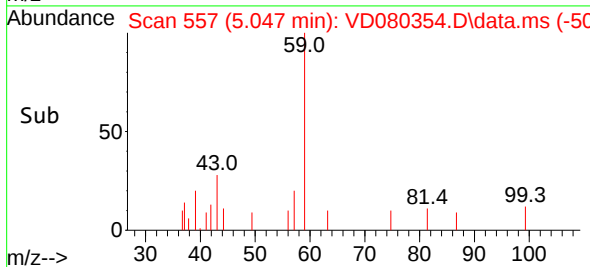
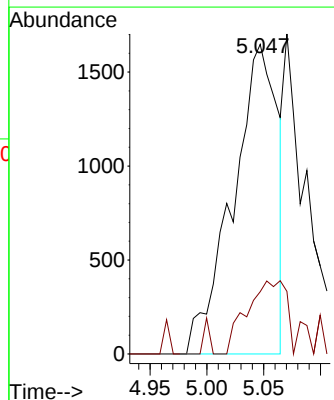
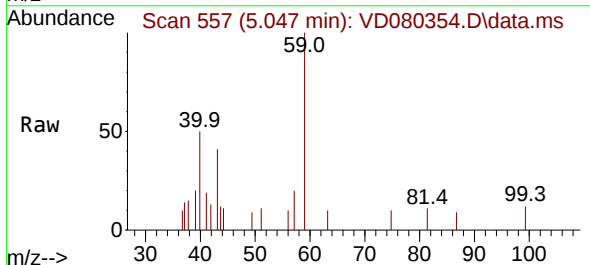
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

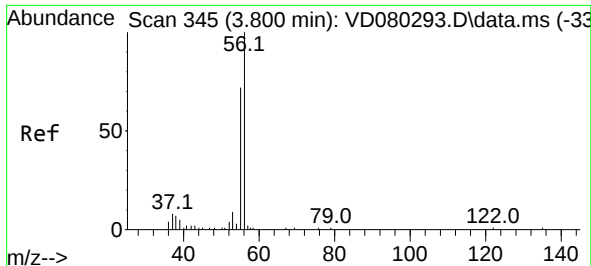
Tgt Ion: 50 Resp: 122
Ion Ratio Lower Upper
50 100
52 41.3 28.8 43.2



#11
Tert butyl alcohol
Concen: 62.007 ug/l
RT: 5.047 min Scan# 557
Delta R.T. -0.011 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 59 Resp: 4498
Ion Ratio Lower Upper
59 100
57 23.5 4.8 7.2#

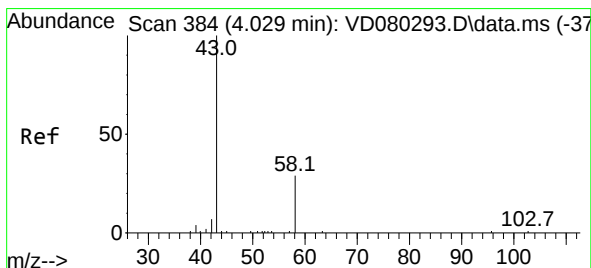
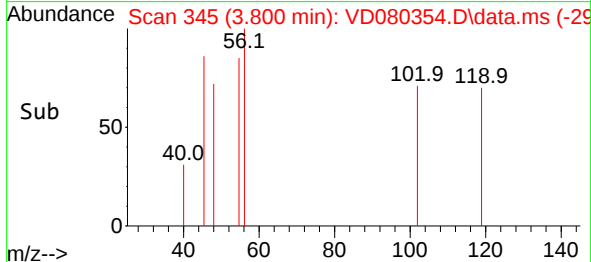
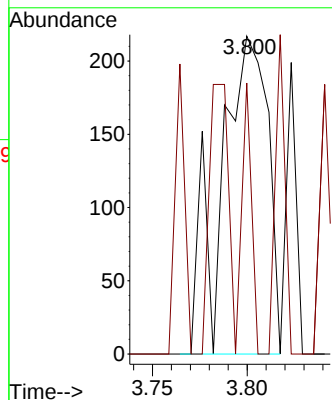
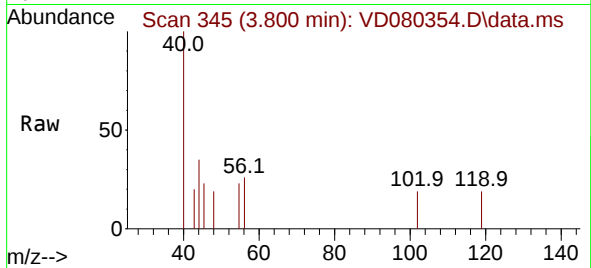




#13
Acrolein
Concen: 2.938 ug/l
RT: 3.800 min Scan# 345
Delta R.T. 0.007 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

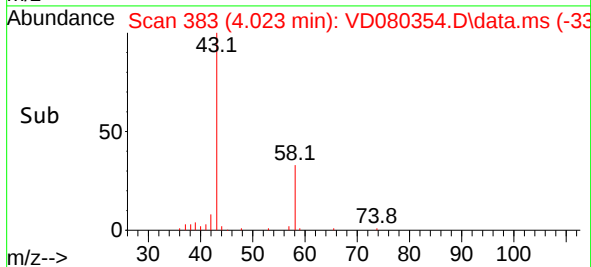
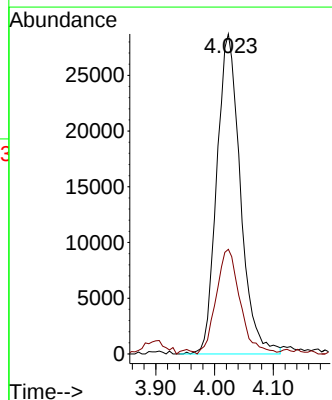
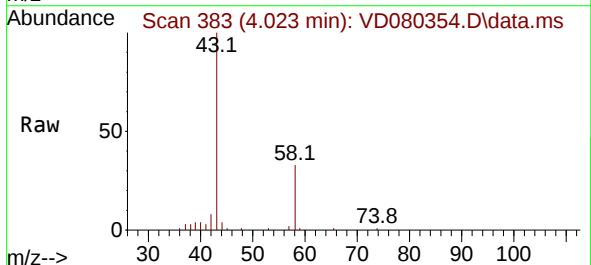
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

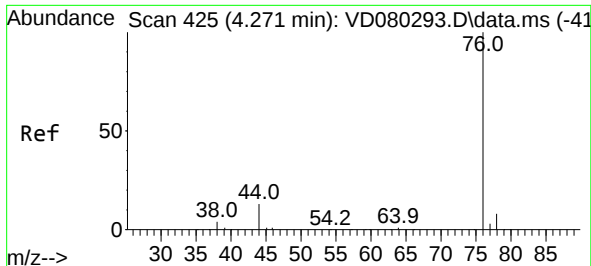
Tgt Ion: 56 Resp: 375
Ion Ratio Lower Upper
56 100
55 52.0 58.2 87.2#



#16
Acetone
Concen: 438.261 ug/l
RT: 4.023 min Scan# 383
Delta R.T. 0.000 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 43 Resp: 79989
Ion Ratio Lower Upper
43 100
58 31.9 25.4 38.2





#17

Carbon Disulfide

Concen: 5.069 ug/l

RT: 4.270 min Scan# 41

Delta R.T. 0.000 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

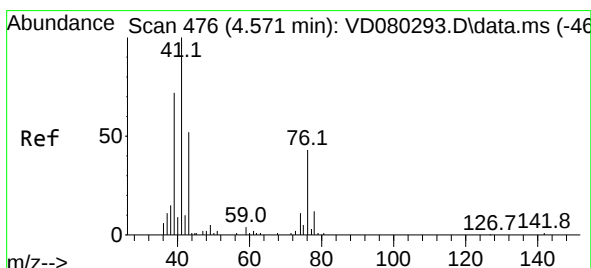
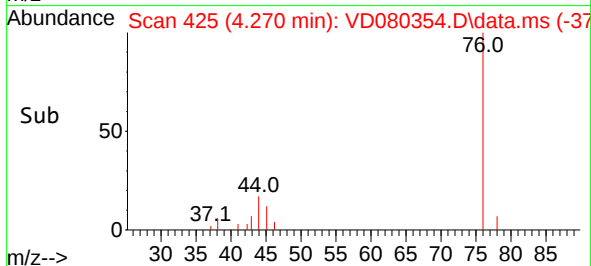
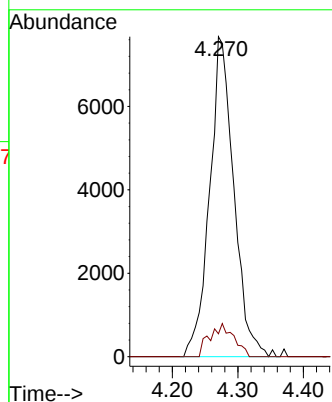
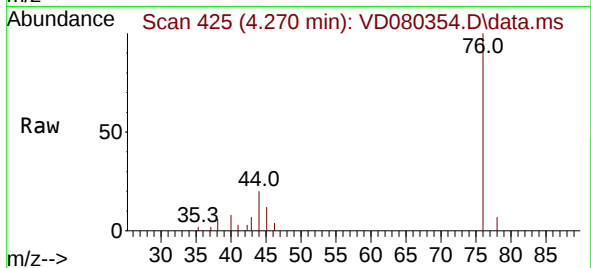
MOO-25-0134

Tgt Ion: 76 Resp: 19702

Ion Ratio Lower Upper

76 100

78 7.1 7.5 11.3#



#18

Methyl Acetate

Concen: 6.249 ug/l

RT: 4.564 min Scan# 475

Delta R.T. 0.000 min

Lab File: VD080354.D

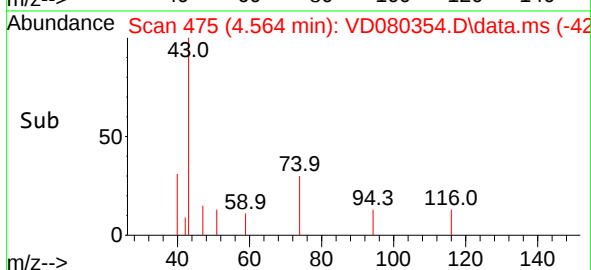
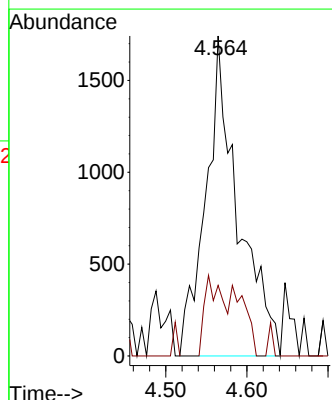
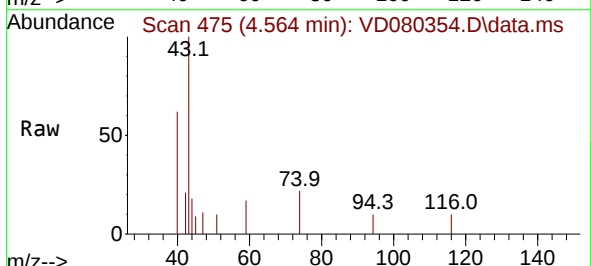
Acq: 15 May 2025 17:44

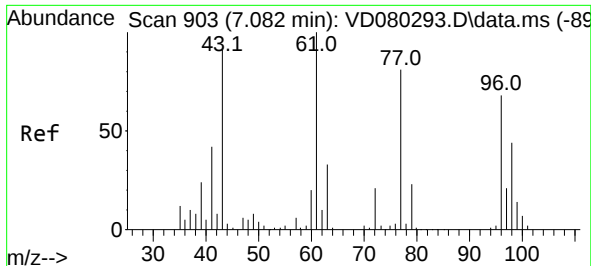
Tgt Ion: 43 Resp: 4834

Ion Ratio Lower Upper

43 100

74 14.1 20.5 30.7#





#25

2-Butanone

Concen: 32.093 ug/l

RT: 7.088 min Scan# 904

Delta R.T. 0.001 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

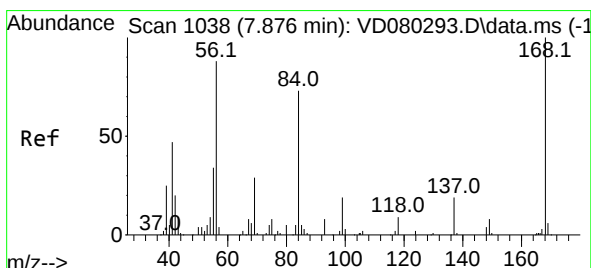
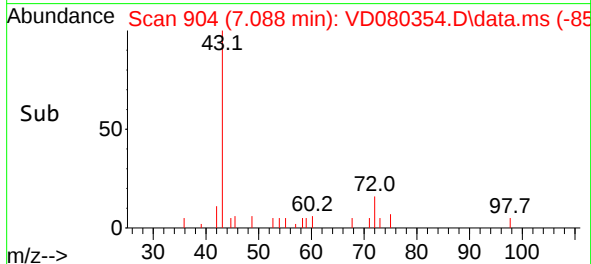
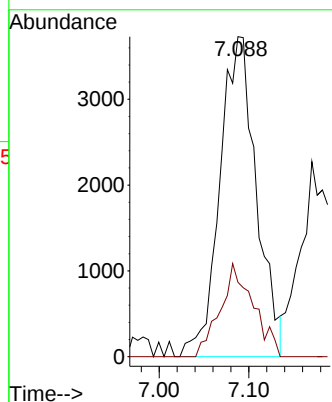
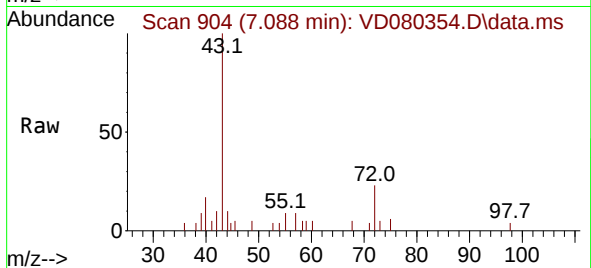
MOO-25-0134

Tgt Ion: 43 Resp: 10556

Ion Ratio Lower Upper

43 100

72 23.2 22.3 33.5



#31

Cyclohexane

Concen: 1.493 ug/l

RT: 7.870 min Scan# 1037

Delta R.T. -0.011 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

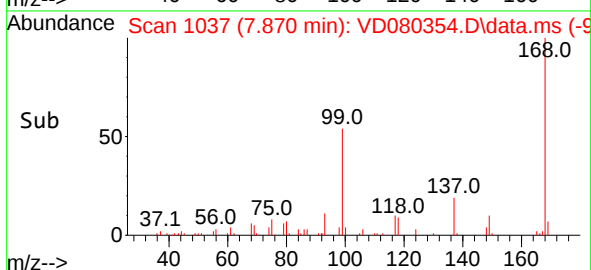
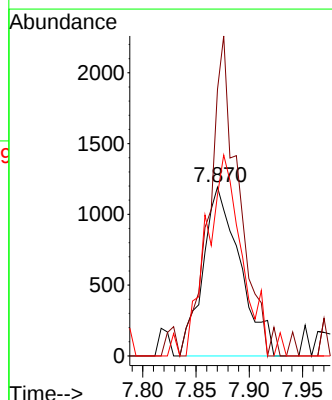
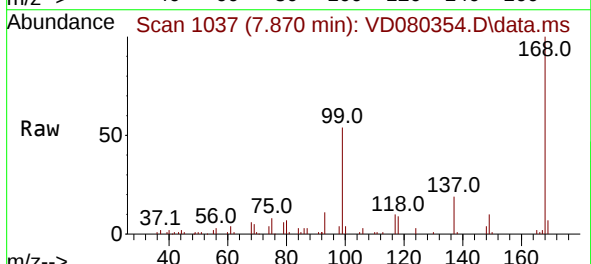
Tgt Ion: 56 Resp: 2899

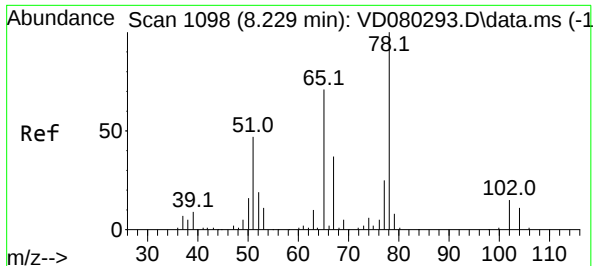
Ion Ratio Lower Upper

56 100

69 157.8 27.3 40.9#

84 95.5 70.2 105.4





#33

1,2-Dichloroethane-d4

Concen: 46.469 ug/l

RT: 8.229 min Scan# 1109

Delta R.T. 0.001 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

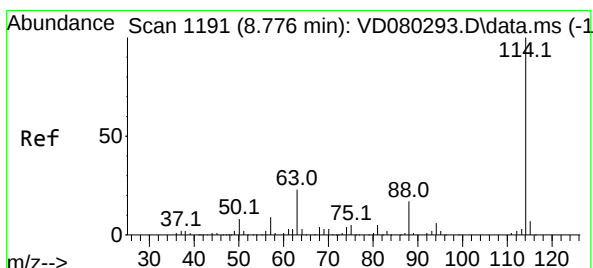
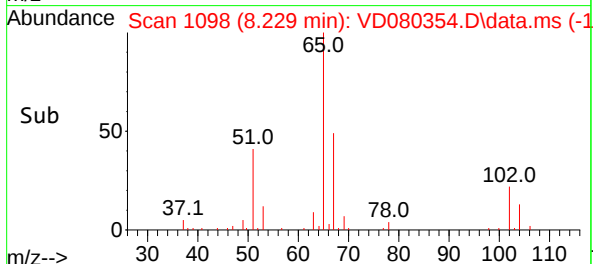
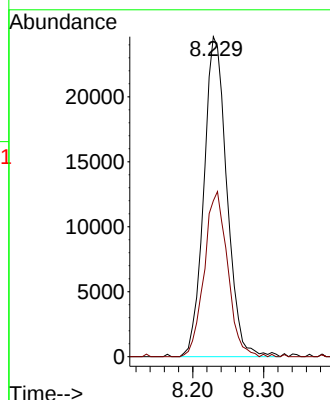
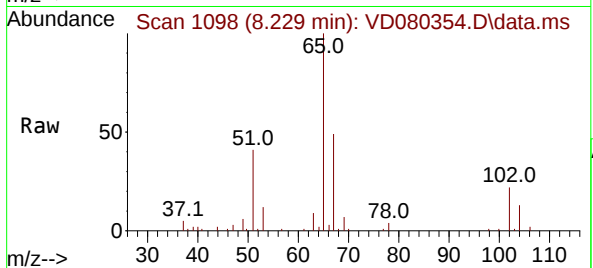
MOO-25-0134

Tgt Ion: 65 Resp: 55550

Ion Ratio Lower Upper

65 100

67 52.1 0.0 109.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.782 min Scan# 1192

Delta R.T. 0.007 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

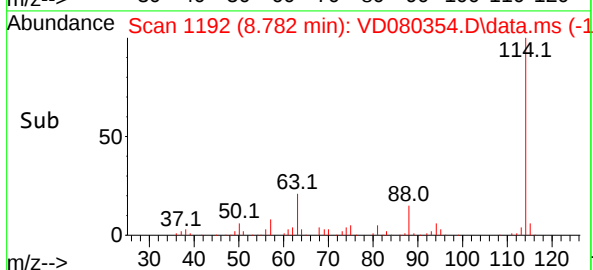
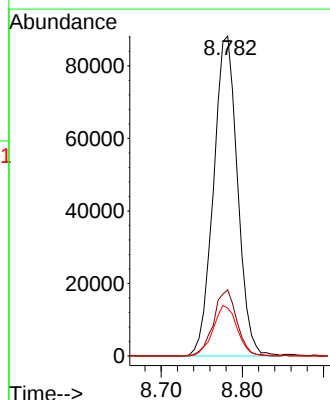
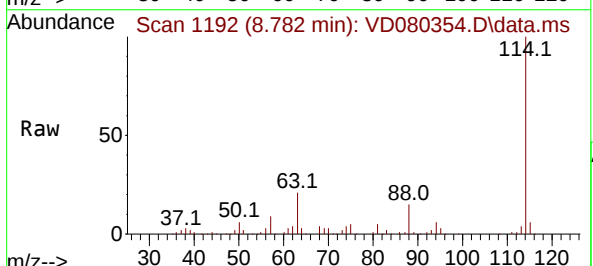
Tgt Ion: 114 Resp: 181259

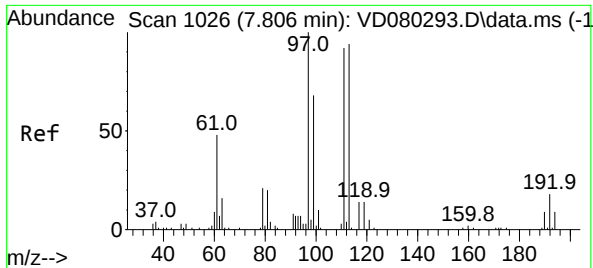
Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.8

88 15.0 0.0 30.6

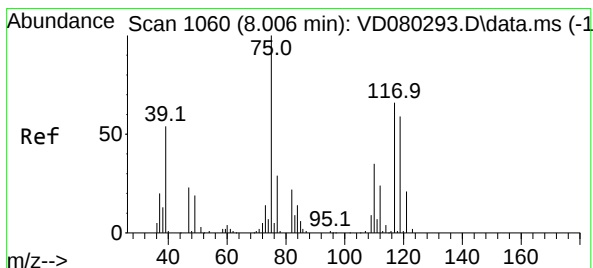
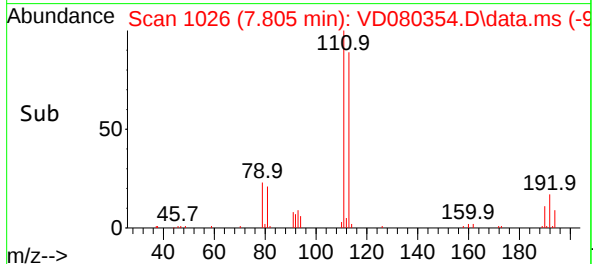
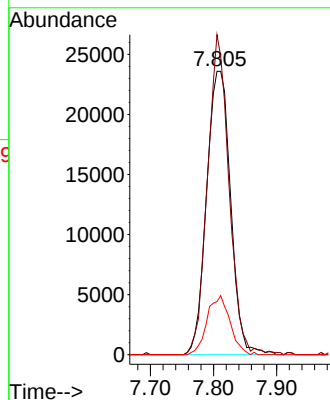
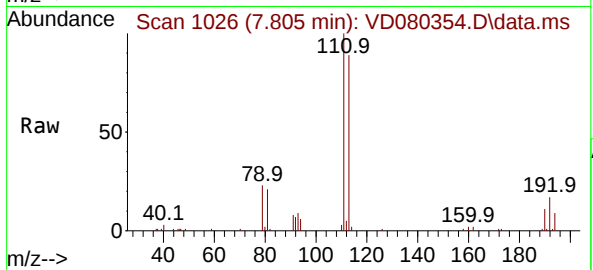




#35
Dibromofluoromethane
Concen: 51.352 ug/l
RT: 7.805 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

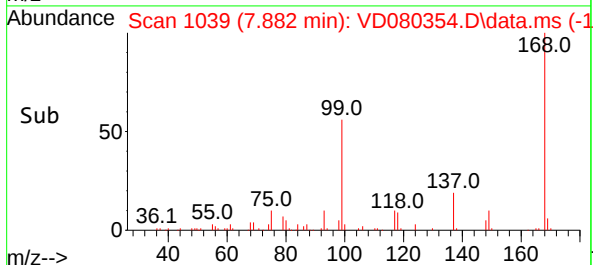
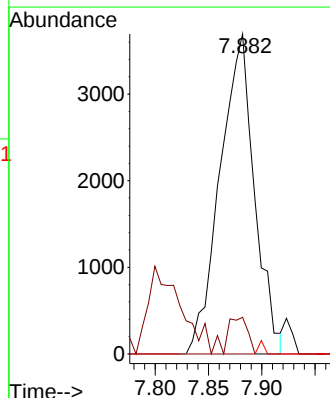
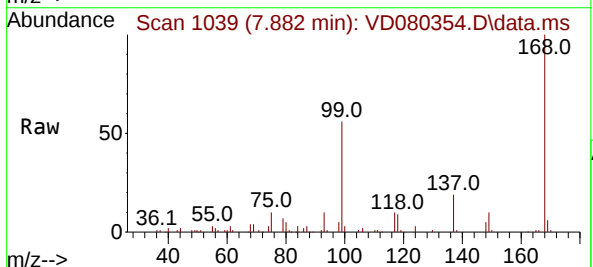
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

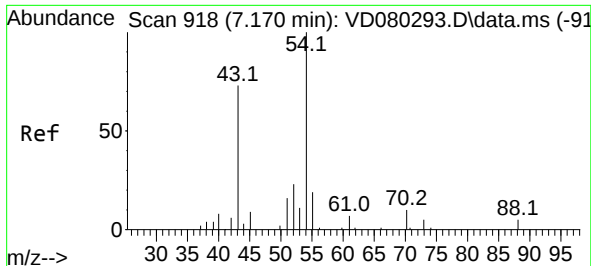
Tgt Ion:113 Resp: 62386
Ion Ratio Lower Upper
113 100
111 101.5 82.5 123.7
192 19.9 16.6 25.0



#36
1,1-Dichloropropene
Concen: 4.576 ug/l
RT: 7.882 min Scan# 1039
Delta R.T. -0.123 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 75 Resp: 8308
Ion Ratio Lower Upper
75 100
110 6.2 18.4 55.0#
77 0.0 25.6 38.4#





#37

Ethyl Acetate

Concen: 6.379 ug/l

RT: 7.170 min Scan# 918

Delta R.T. 0.001 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0134

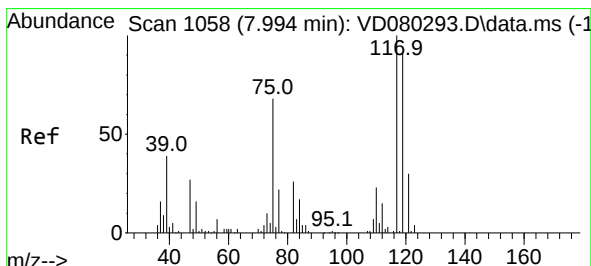
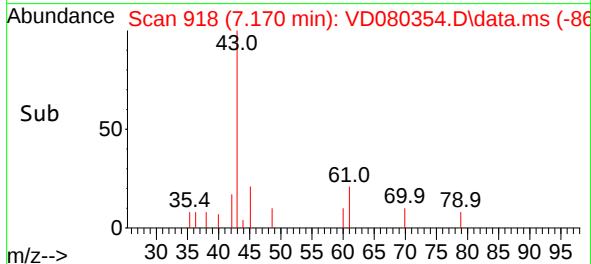
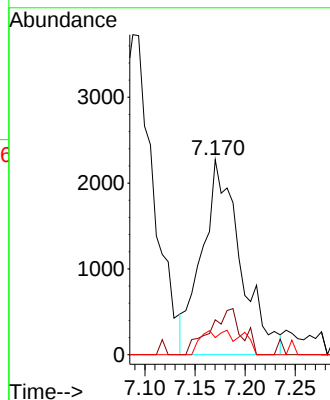
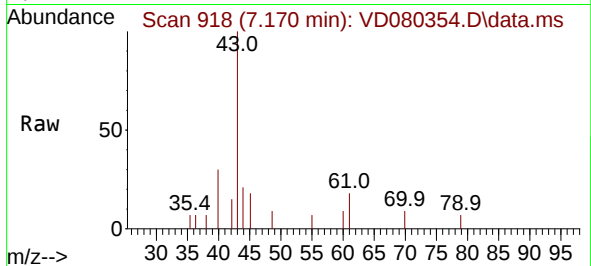
Tgt Ion: 43 Resp: 6056

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

70 5.1 9.4 14.2#



#38

Carbon Tetrachloride

Concen: 4.881 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.111 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

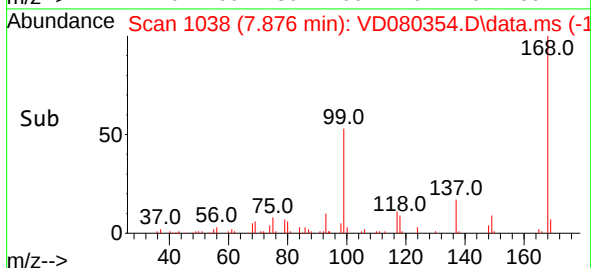
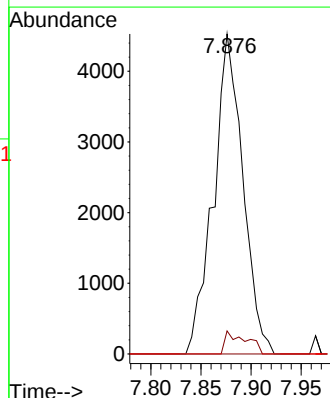
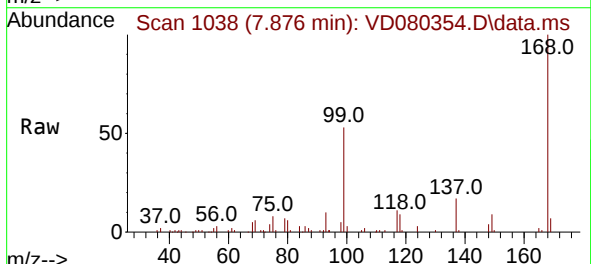
Tgt Ion: 117 Resp: 9242

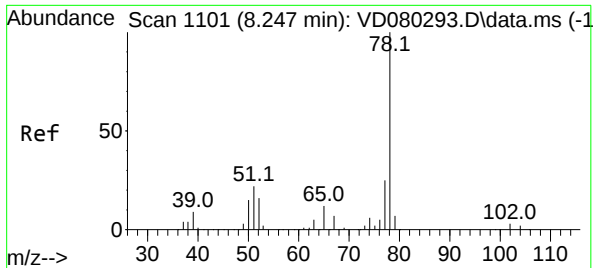
Ion Ratio Lower Upper

117 100

119 7.2 73.4 110.0#

121 0.0 24.5 36.7#

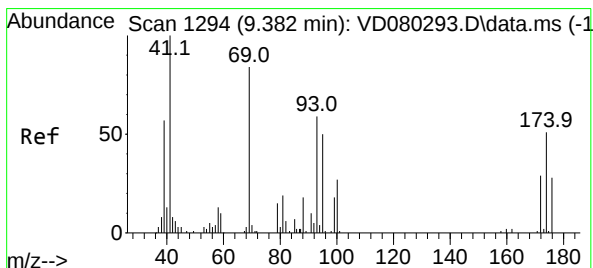
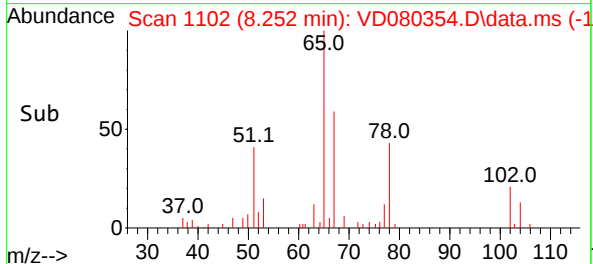
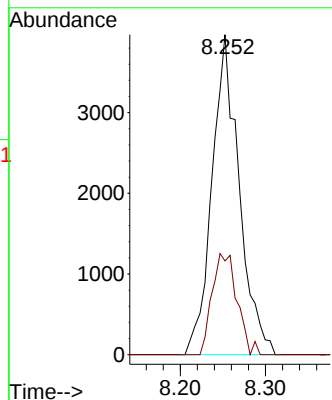
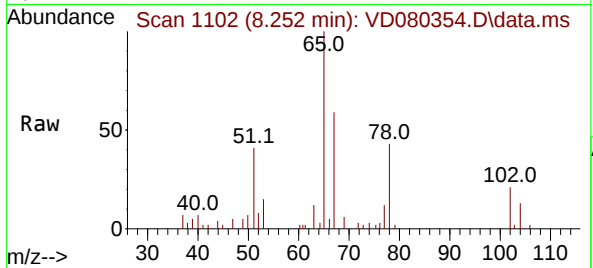




#40
Benzene
Concen: 1.541 ug/l
RT: 8.252 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

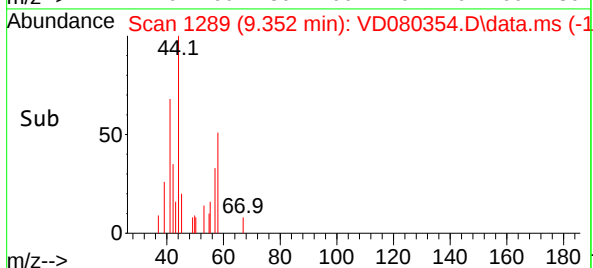
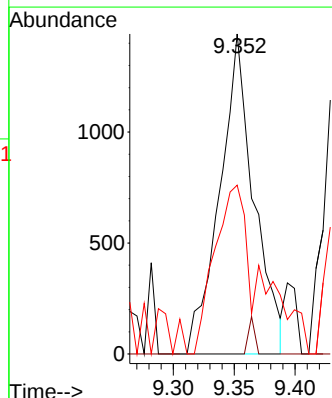
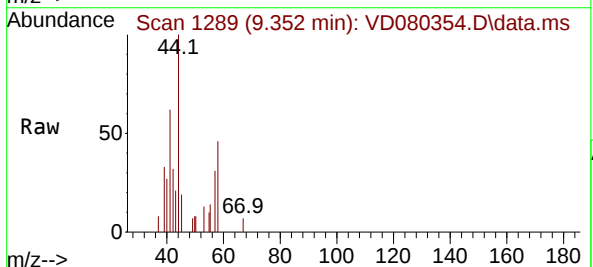
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

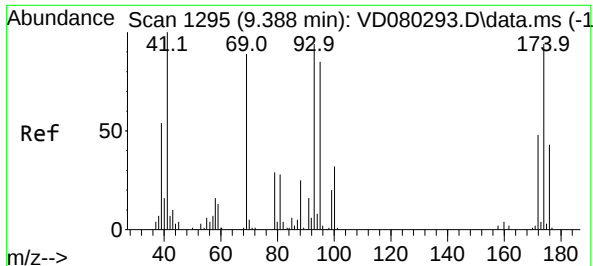
Tgt Ion: 78 Resp: 8768
Ion Ratio Lower Upper
78 100
77 29.3 20.2 30.4



#48
Methyl methacrylate
Concen: 3.435 ug/l
RT: 9.352 min Scan# 1289
Delta R.T. -0.029 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 41 Resp: 2810
Ion Ratio Lower Upper
41 100
69 2.1 74.0 111.0#
39 71.7 41.9 62.9#





#49

1,4-Dioxane

Concen: 6.035 ug/l

RT: 9.217 min Scan# 1

Delta R.T. -0.170 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0134

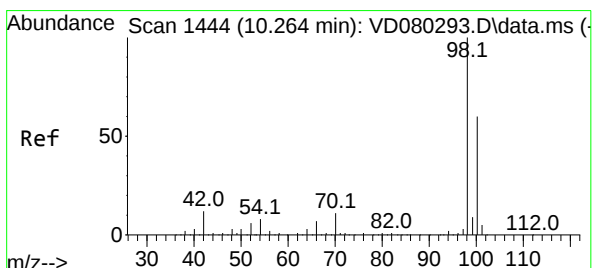
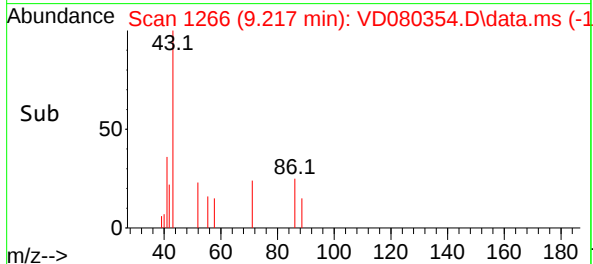
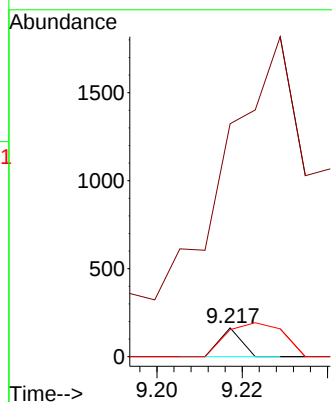
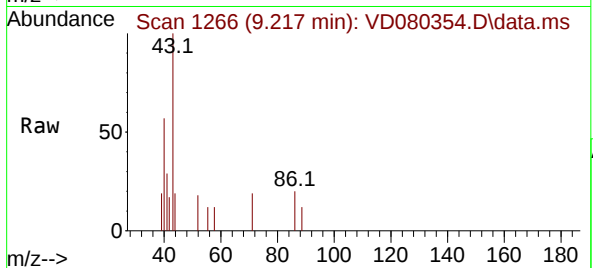
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 6457.9 29.1 43.7#

58 310.5 59.9 89.9#



#50

Toluene-d8

Concen: 48.249 ug/l

RT: 10.270 min Scan# 1445

Delta R.T. 0.001 min

Lab File: VD080354.D

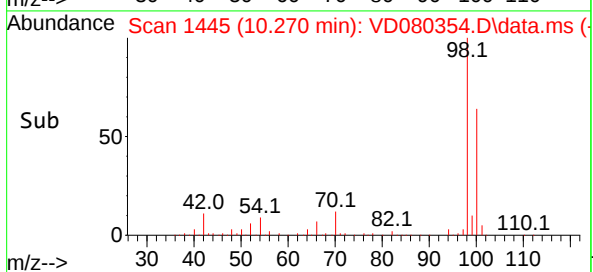
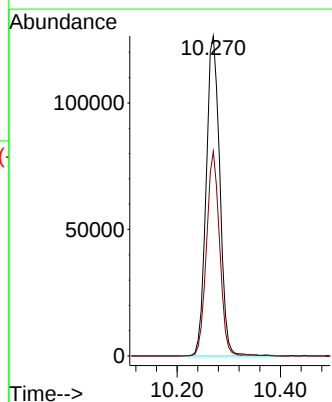
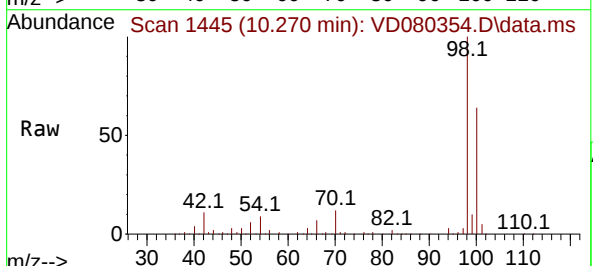
Acq: 15 May 2025 17:44

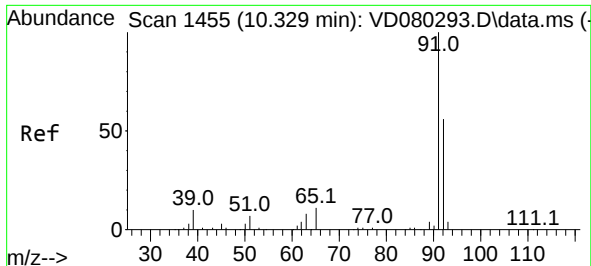
Tgt Ion: 98 Resp: 230955

Ion Ratio Lower Upper

98 100

100 61.2 50.2 75.4

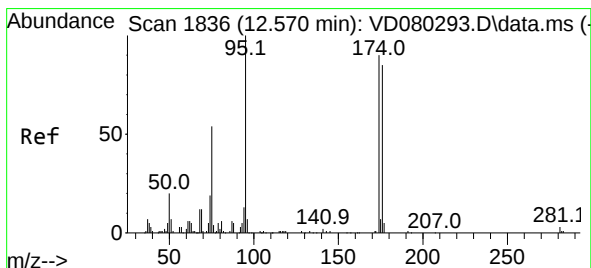
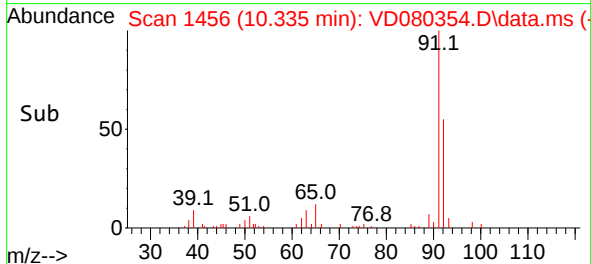
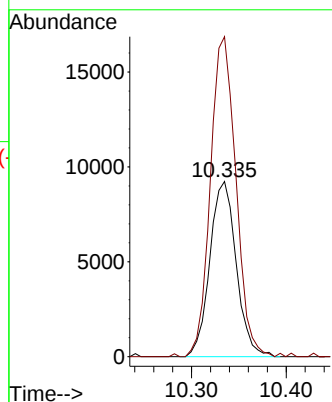
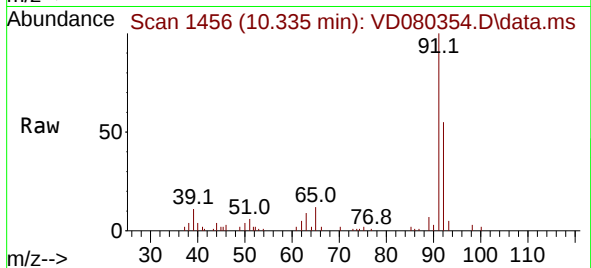




#52
Toluene
Concen: 5.221 ug/l
RT: 10.335 min Scan# 1455
Delta R.T. 0.001 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

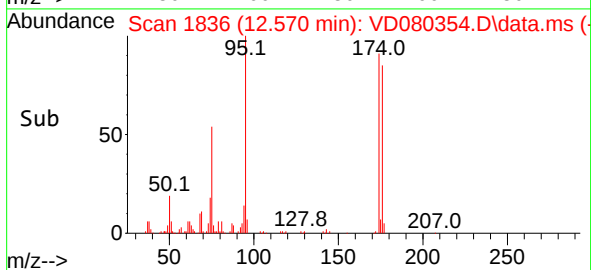
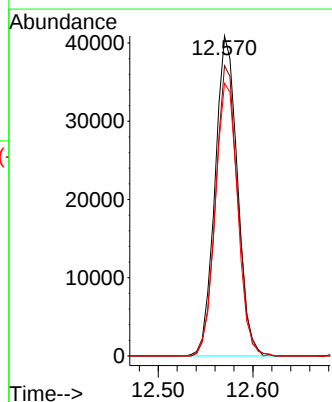
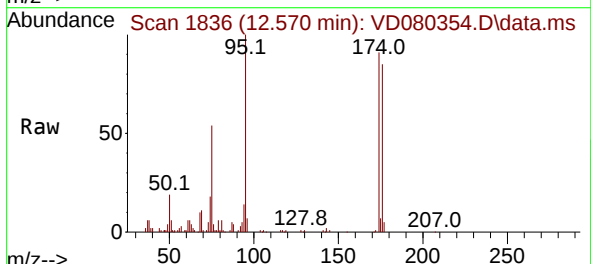
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

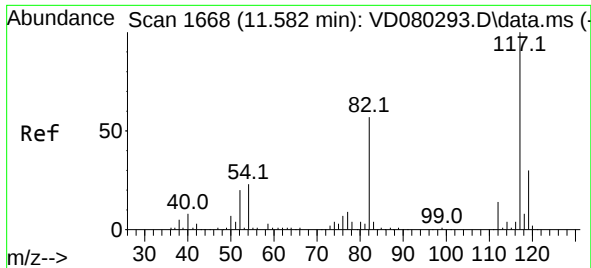
Tgt Ion: 92 Resp: 17893
Ion Ratio Lower Upper
92 100
91 176.1 139.3 208.9



#62
4-Bromofluorobenzene
Concen: 43.657 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 95 Resp: 67074
Ion Ratio Lower Upper
95 100
174 89.6 0.0 173.4
176 85.8 0.0 166.6

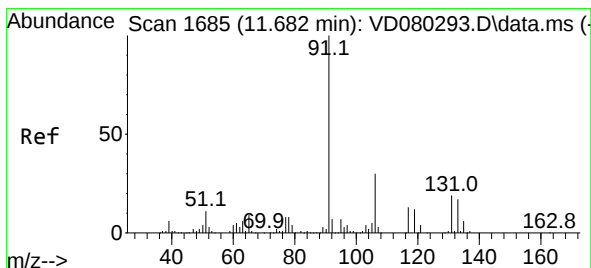
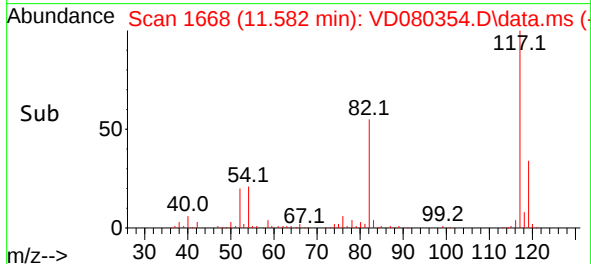
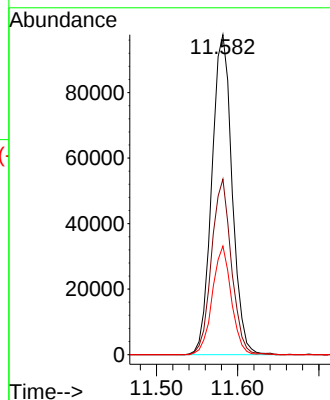
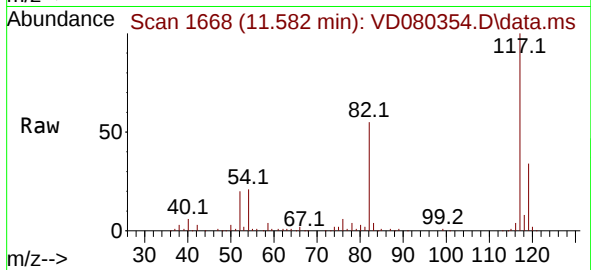




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 1668
Delta R.T. 0.001 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

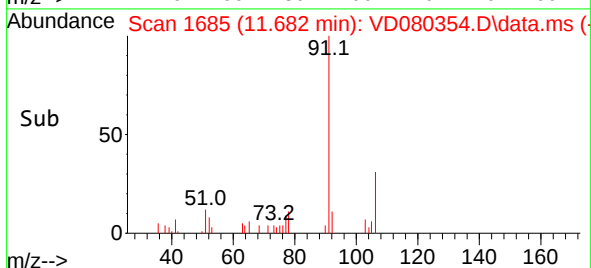
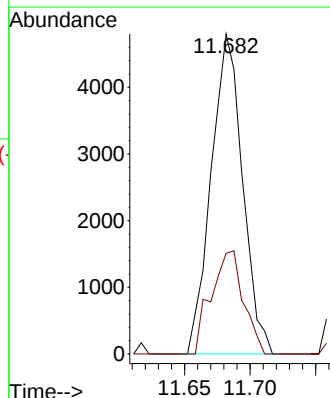
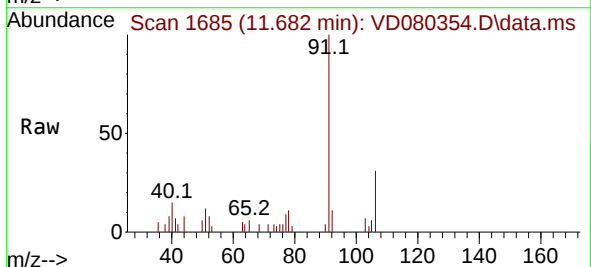
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

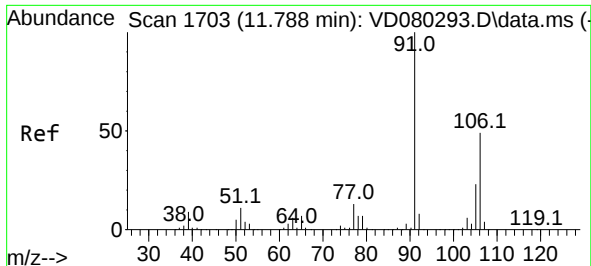
Tgt Ion:117 Resp: 169362
Ion Ratio Lower Upper
117 100
82 54.8 45.8 68.6
119 34.0 26.2 39.2



#67
Ethyl Benzene
Concen: 1.249 ug/l
RT: 11.682 min Scan# 1685
Delta R.T. 0.001 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 91 Resp: 7983
Ion Ratio Lower Upper
91 100
106 31.4 23.6 35.4

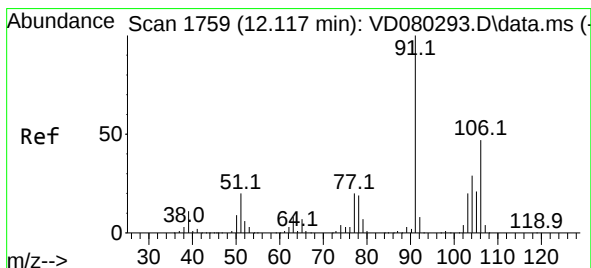
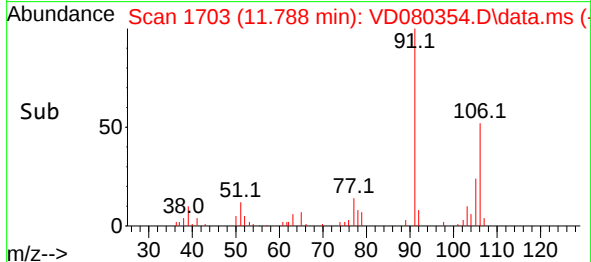
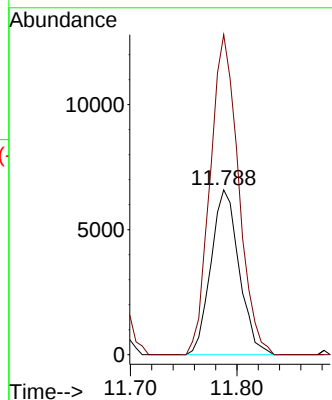
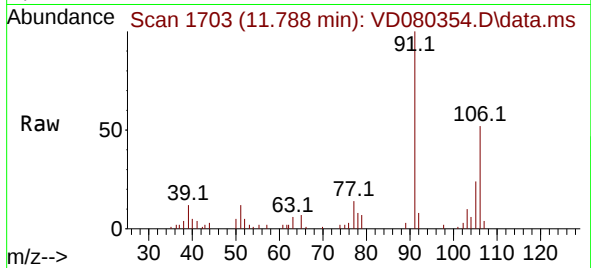




#68
m/p-Xylenes
Concen: 4.869 ug/l
RT: 11.788 min Scan# 1703
Delta R.T. -0.005 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

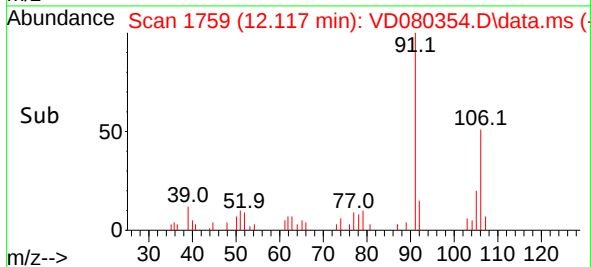
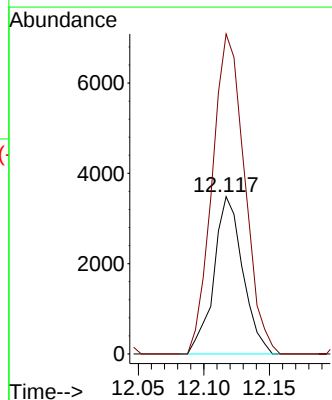
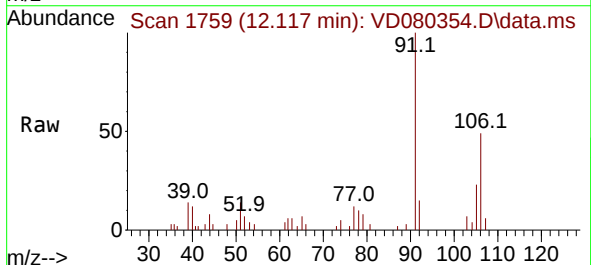
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

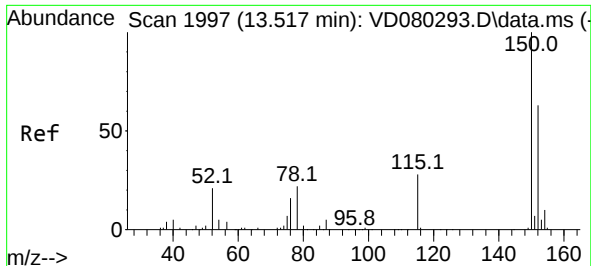
Tgt Ion:106 Resp: 12081
Ion Ratio Lower Upper
106 100
91 195.7 162.6 244.0



#69
o-Xylene
Concen: 2.354 ug/l
RT: 12.117 min Scan# 1759
Delta R.T. 0.001 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion:106 Resp: 5338
Ion Ratio Lower Upper
106 100
91 227.6 110.5 331.5

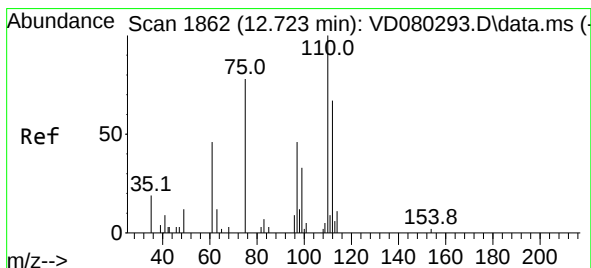
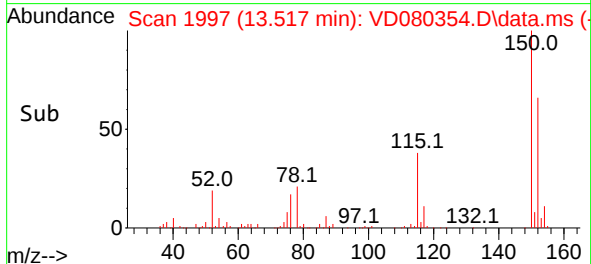
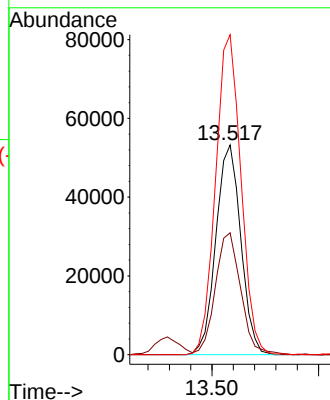
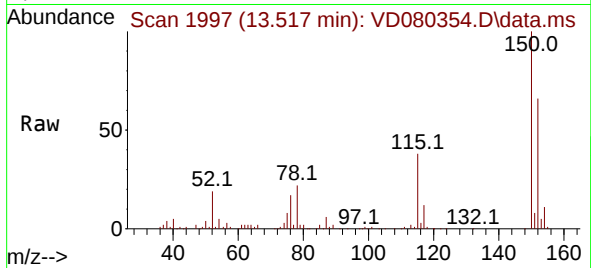




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.517 min Scan# 1997
 Delta R.T. 0.001 min
 Lab File: VD080354.D
 Acq: 15 May 2025 17:44

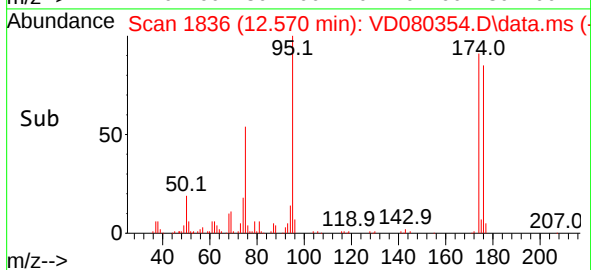
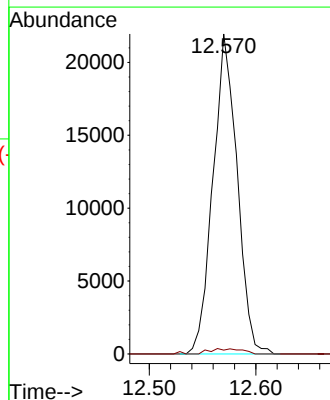
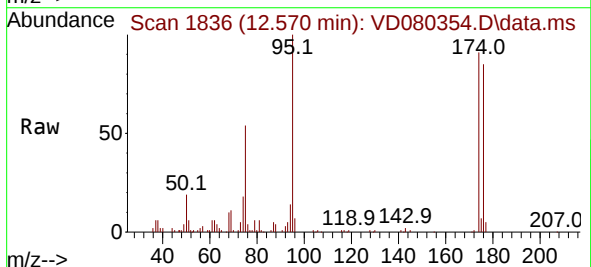
Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0134

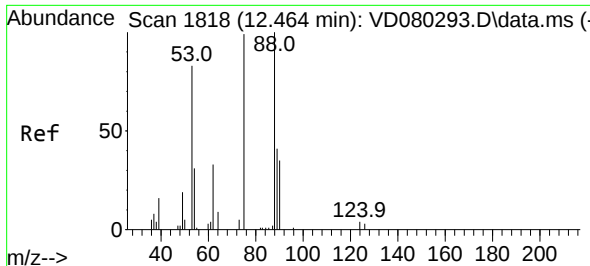
Tgt Ion:152 Resp: 86392
 Ion Ratio Lower Upper
 152 100
 115 59.3 28.9 86.8
 150 155.3 0.0 354.8



#76
 1,2,3-Trichloropropane
 Concen: 41.425 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. -0.152 min
 Lab File: VD080354.D
 Acq: 15 May 2025 17:44

Tgt Ion: 75 Resp: 34540
 Ion Ratio Lower Upper
 75 100
 77 2.2 0.0 0.0#

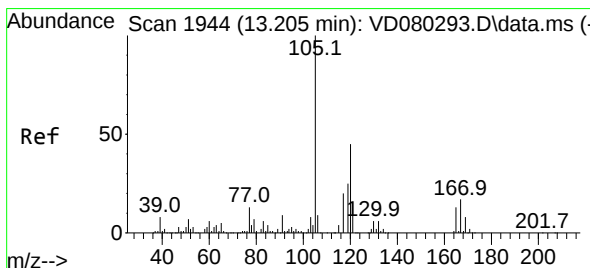
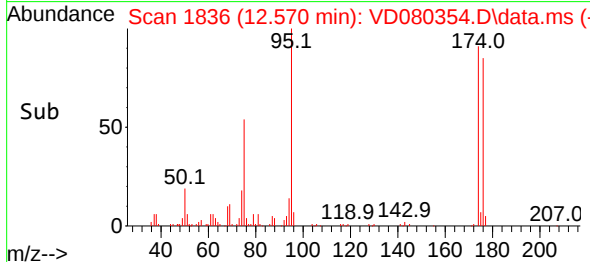
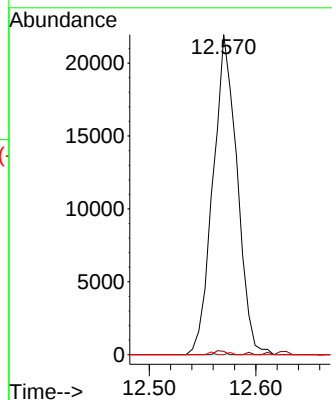
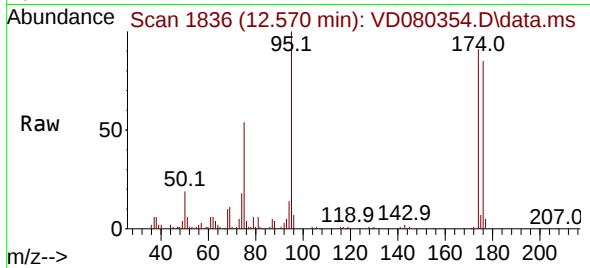




#81
trans-1,4-Dichloro-2-butene
Concen: 78.632 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.101 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

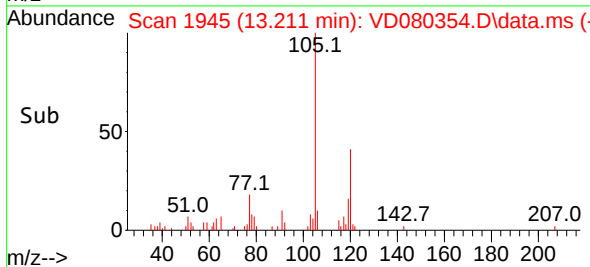
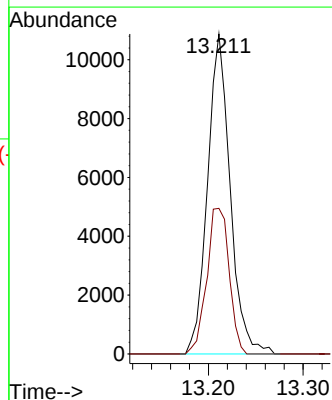
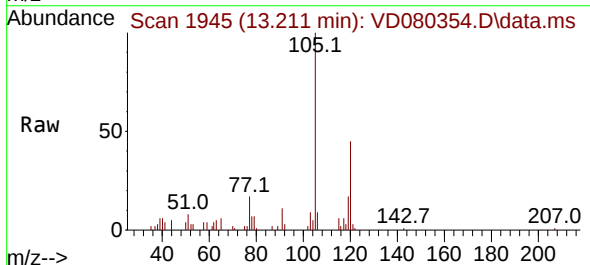
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0134

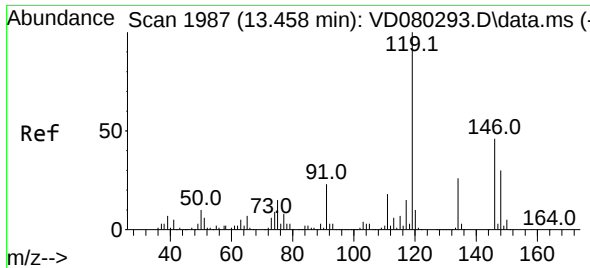
Tgt Ion: 75 Resp: 34540
Ion Ratio Lower Upper
75 100
53 0.5 68.7 103.1#
89 0.2 36.1 54.1#



#84
1,2,4-Trimethylbenzene
Concen: 3.684 ug/l
RT: 13.211 min Scan# 1945
Delta R.T. 0.001 min
Lab File: VD080354.D
Acq: 15 May 2025 17:44

Tgt Ion: 105 Resp: 18017
Ion Ratio Lower Upper
105 100
120 45.0 22.8 68.4

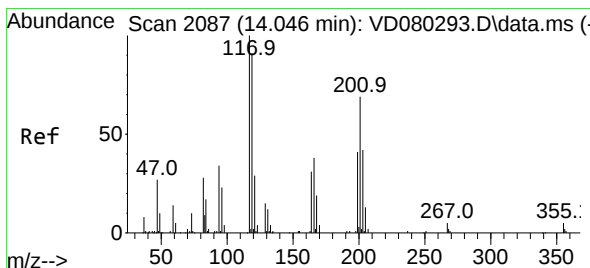
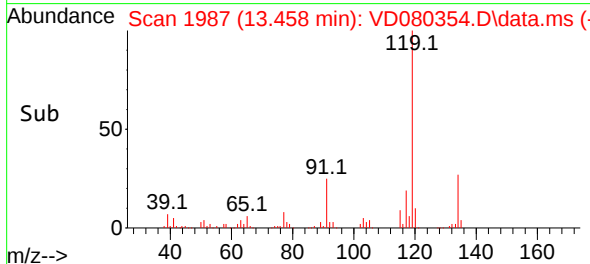
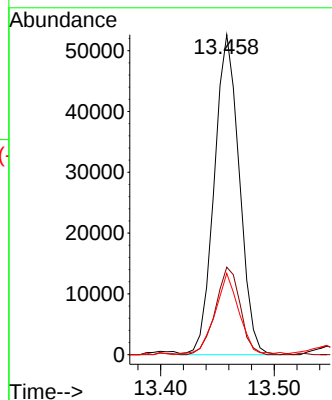
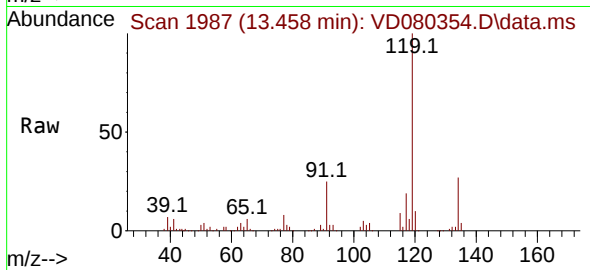




#86
 p-Isopropyltoluene
 Concen: 15.604 ug/l
 RT: 13.458 min Scan# 1987
 Delta R.T. 0.001 min
 Lab File: VD080354.D
 Acq: 15 May 2025 17:44

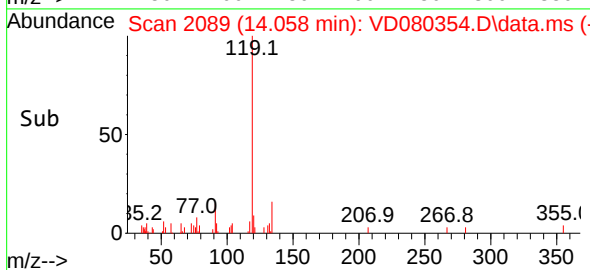
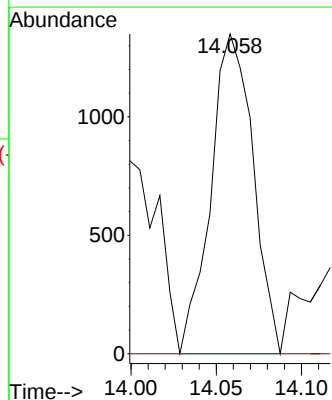
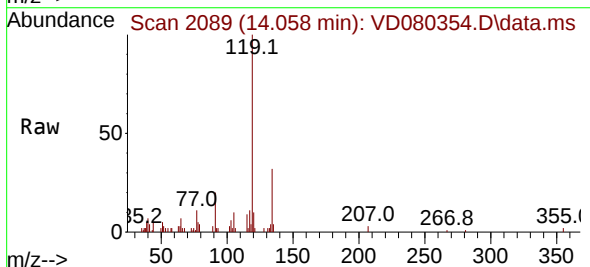
Instrument :
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 ClientSampleId :
 MOO-25-0134

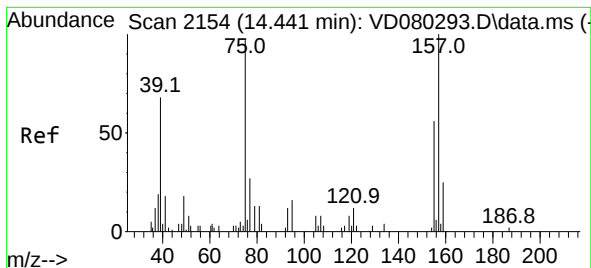
Tgt Ion:119 Resp: 80663
 Ion Ratio Lower Upper
 119 100
 134 26.9 13.1 39.1
 91 24.7 12.2 36.4



#90
 Hexachloroethane
 Concen: 2.034 ug/l
 RT: 14.058 min Scan# 2089
 Delta R.T. 0.007 min
 Lab File: VD080354.D
 Acq: 15 May 2025 17:44

Tgt Ion:117 Resp: 2326
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.5 112.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.639 ug/l

RT: 14.429 min Scan# 2154

Delta R.T. -0.011 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0134

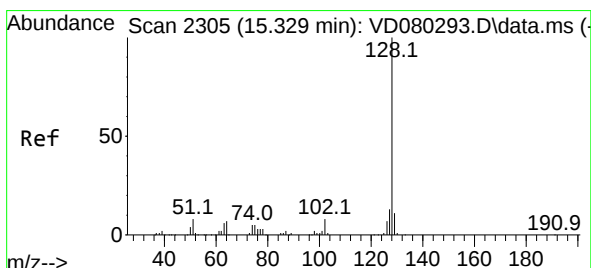
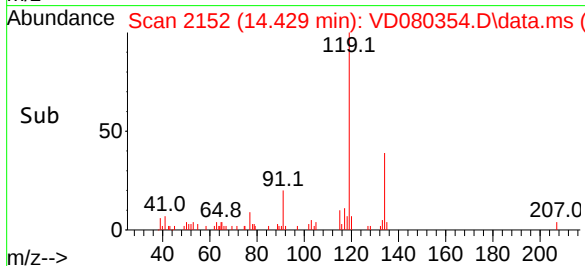
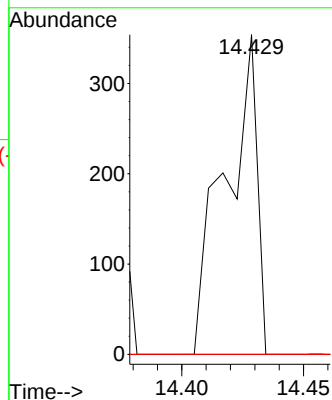
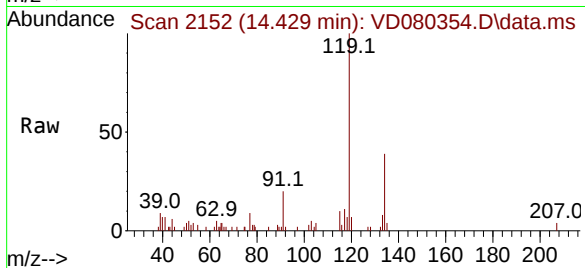
Tgt Ion: 75 Resp: 322

Ion Ratio Lower Upper

75 100

155 0.0 40.6 122.0#

157 0.0 53.3 159.9#



#95

Naphthalene

Concen: 8.689 ug/l

RT: 15.329 min Scan# 2305

Delta R.T. 0.001 min

Lab File: VD080354.D

Acq: 15 May 2025 17:44

Tgt Ion:128 Resp: 27020

Ion Ratio Lower Upper

128 100

127 12.4 11.8 17.8

129 9.5 8.3 12.5

