

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051625\
 Data File : VD080377.D
 Acq On : 16 May 2025 17:44
 Operator : RP/MD
 Sample : Q2014-03
 Misc : 3.65G/5ml/MSVOA_D/SOIL/B
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0145

Quant Time: May 17 01:22:38 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)

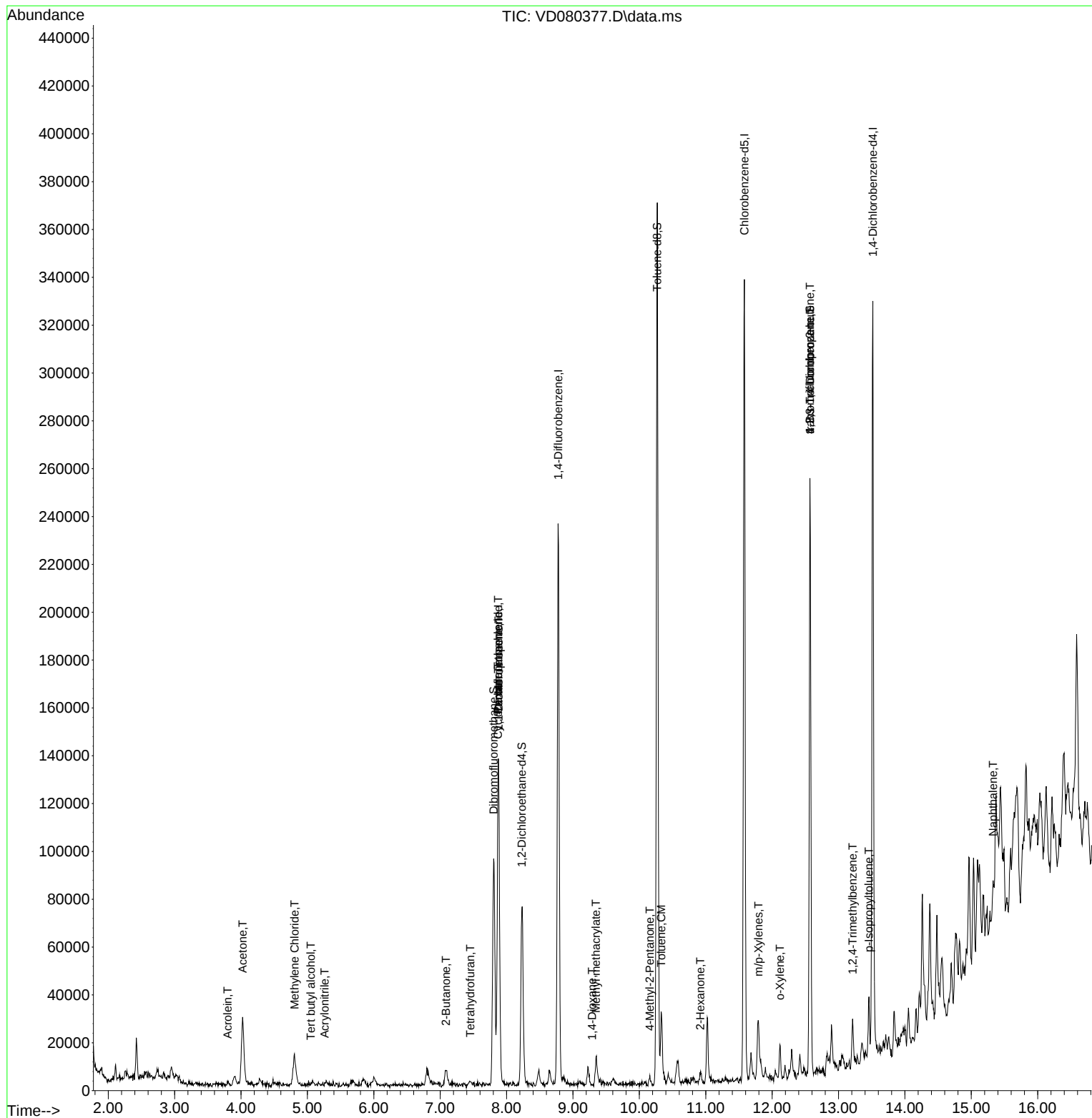
Internal Standards						
1) Pentafluorobenzene	7.876	168	102647	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	195274	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	187175	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	83393	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	58655	44.188	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.380%
35) Dibromofluoromethane	7.806	113	68016	51.968	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.940%
50) Toluene-d8	10.270	98	251940	48.856	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.720%
62) 4-Bromofluorobenzene	12.570	95	77081	46.570	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	93.140%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.923	85	56	Below Cal	#	43
3) Chloromethane	2.147	50	497	Below Cal	#	39
11) Tert butyl alcohol	5.053	59	591	7.337	ug/l #	75
13) Acrolein	3.800	56	944	6.661	ug/l #	50
15) Acrylonitrile	5.259	53	754	2.483	ug/l #	79
16) Acetone	4.023	43	48278	236.524	ug/l	97
20) Methylene Chloride	4.806	84	8695	2.498	ug/l	98
25) 2-Butanone	7.088	43	10313	28.237	ug/l	90
29) Tetrahydrofuran	7.453	42	821	3.448	ug/l #	51
31) Cyclohexane	7.870	56	2897	1.343	ug/l #	16
36) 1,1-Dichloropropene	7.882	75	9347	4.779	ug/l #	48
38) Carbon Tetrachloride	7.876	117	11231	5.506	ug/l #	18
48) Methyl methacrylate	9.347	41	4010	4.550	ug/l #	39
49) 1,4-Dioxane	9.288	88	61	5.995	ug/l #	21
51) 4-Methyl-2-Pentanone	10.158	43	2228	2.331	ug/l	96
52) Toluene	10.329	92	11976	3.243	ug/l	93
59) 2-Hexanone	10.917	43	3835	5.834	ug/l	91
68) m/p-Xylenes	11.794	106	7335	2.675	ug/l	94
69) o-Xylene	12.117	106	3119	1.245	ug/l	98
76) 1,2,3-Trichloropropane	12.570	75	40040	49.748	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	40040	94.431	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.211	105	9543	2.021	ug/l	92
86) p-Isopropyltoluene	13.458	119	13551	2.716	ug/l	99
95) Naphthalene	15.329	128	18344	6.111	ug/l #	97

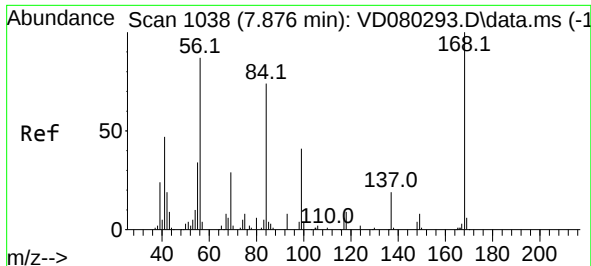
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051625\
Data File : VD080377.D
Acq On : 16 May 2025 17:44
Operator : RP/MD
Sample : Q2014-03
Misc : 3.65G/5ml/MSVOA_D/SOIL/B
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

Quant Time: May 17 01:22:38 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

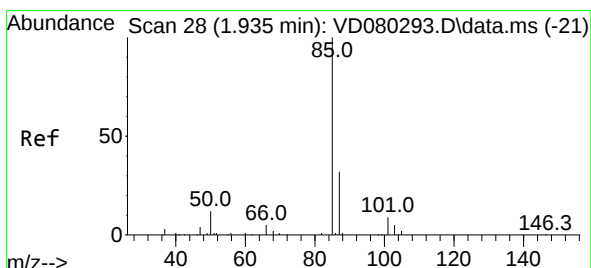
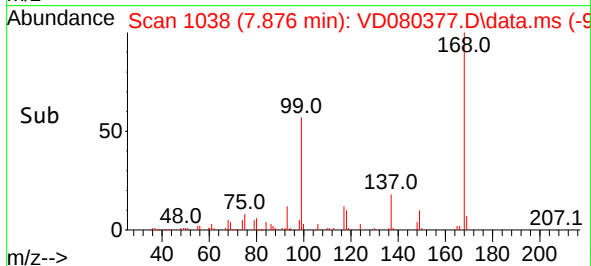
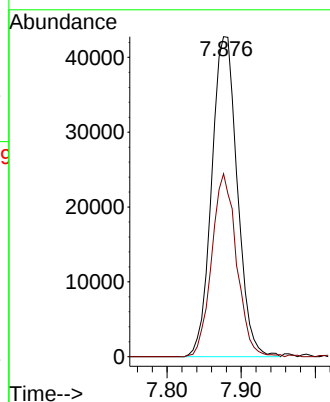
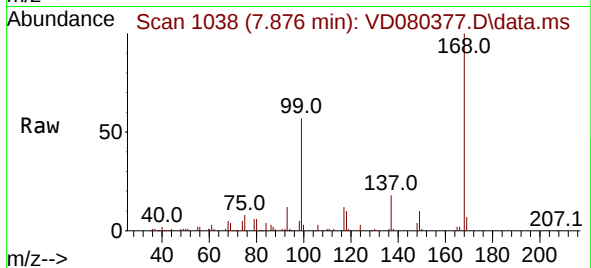




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 1038
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

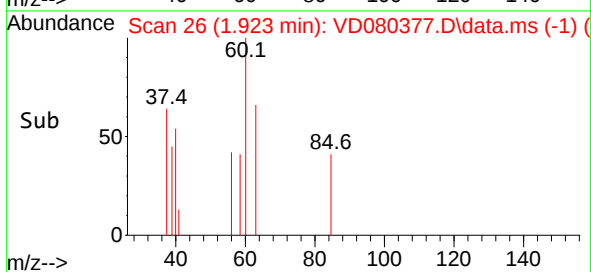
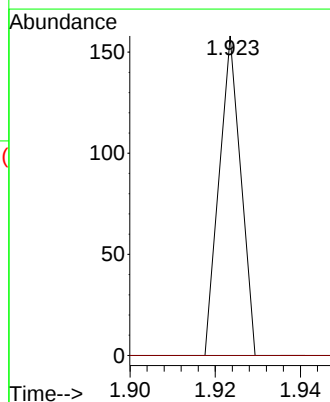
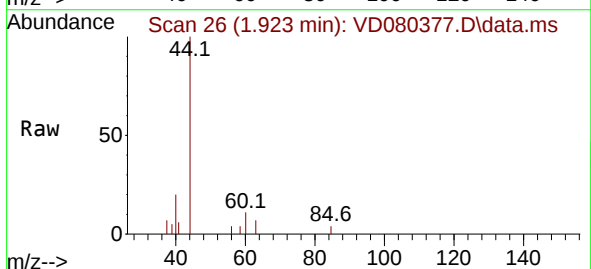
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

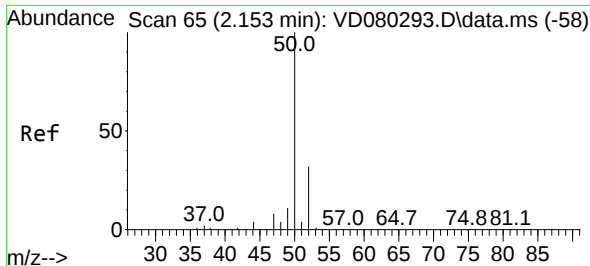
Tgt Ion:168 Resp: 102647
Ion Ratio Lower Upper
168 100
99 57.2 46.0 69.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.923 min Scan# 26
Delta R.T. -0.011 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion: 85 Resp: 56
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

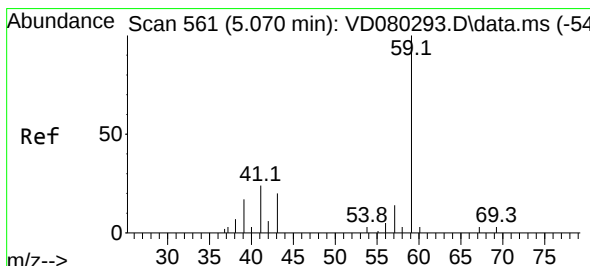
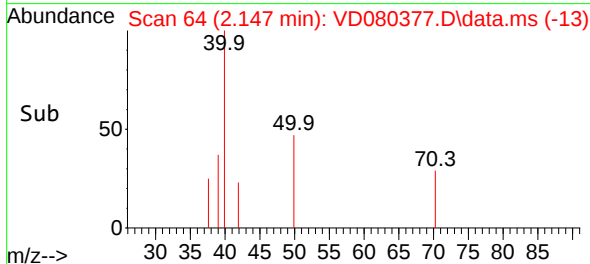
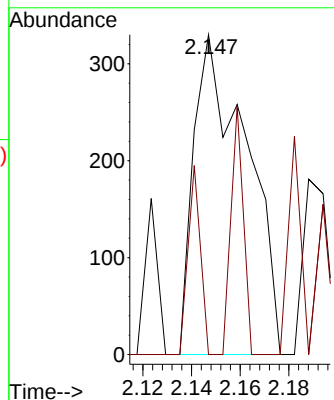
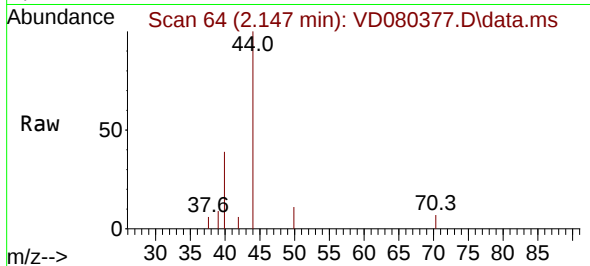




#3
Chloromethane
Concen: Below Cal
RT: 2.147 min Scan# 64
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

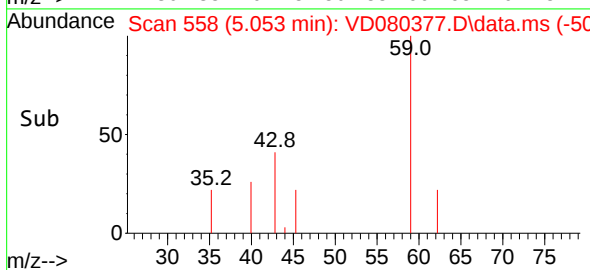
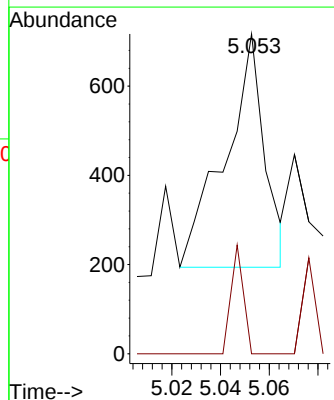
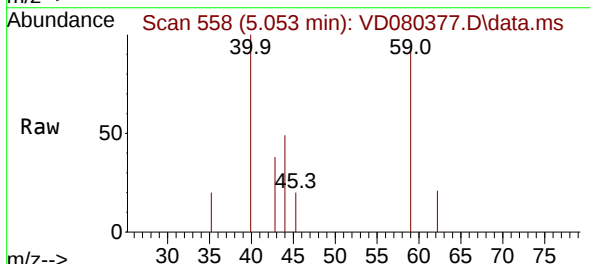
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

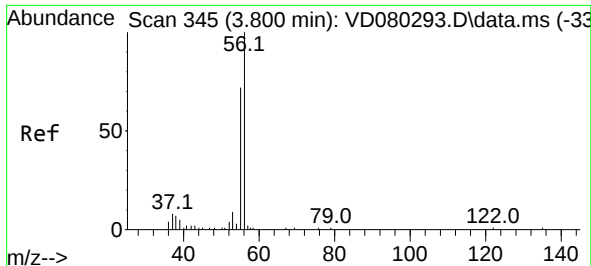
Tgt Ion: 50 Resp: 497
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#



#11
Tert butyl alcohol
Concen: 7.337 ug/l
RT: 5.053 min Scan# 558
Delta R.T. -0.005 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion: 59 Resp: 591
Ion Ratio Lower Upper
59 100
57 14.6 4.8 7.2#

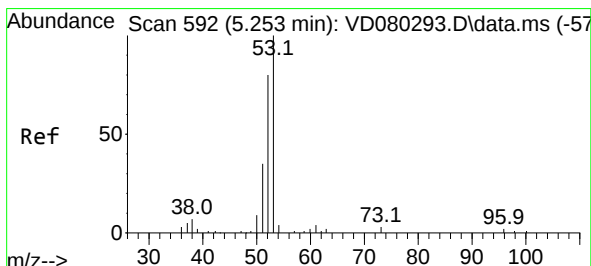
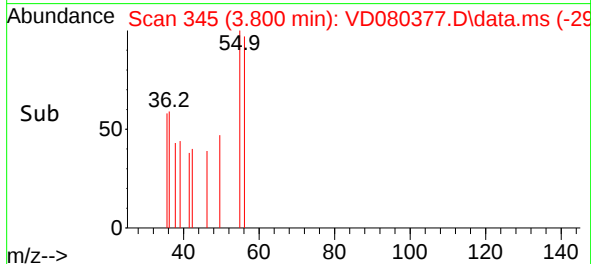
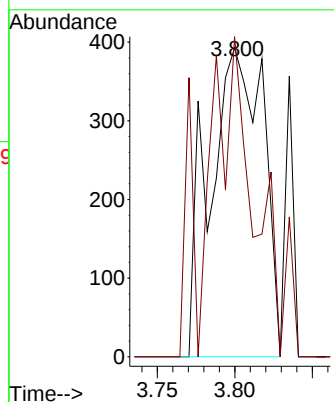
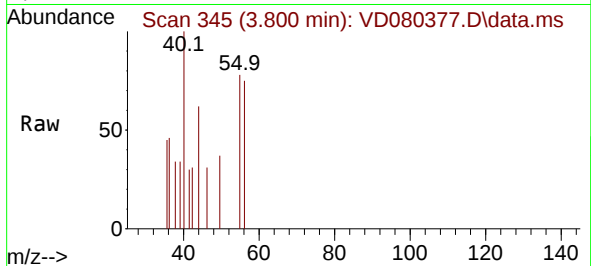




#13
Acrolein
Concen: 6.661 ug/l
RT: 3.800 min Scan# 345
Delta R.T. 0.007 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

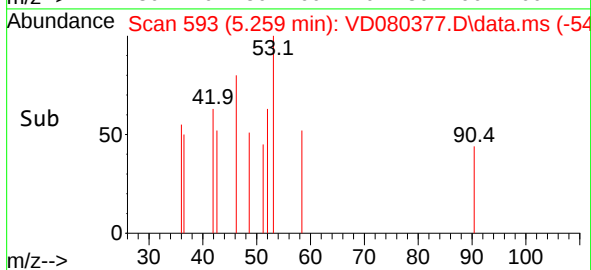
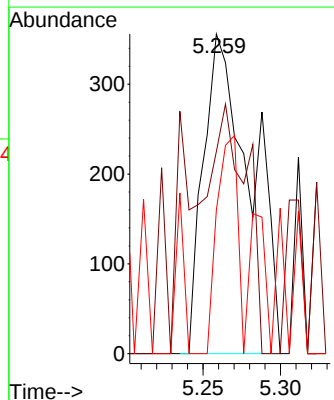
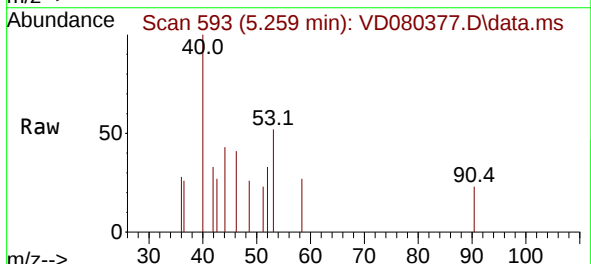
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

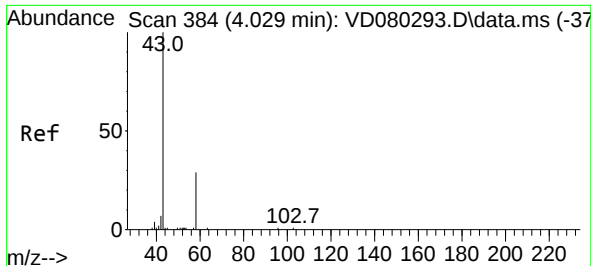
Tgt Ion: 56 Resp: 944
Ion Ratio Lower Upper
56 100
55 30.6 58.2 87.2#



#15
Acrylonitrile
Concen: 2.483 ug/l
RT: 5.259 min Scan# 593
Delta R.T. 0.007 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion: 53 Resp: 754
Ion Ratio Lower Upper
53 100
52 61.1 66.2 99.4#
51 29.7 30.3 45.5#

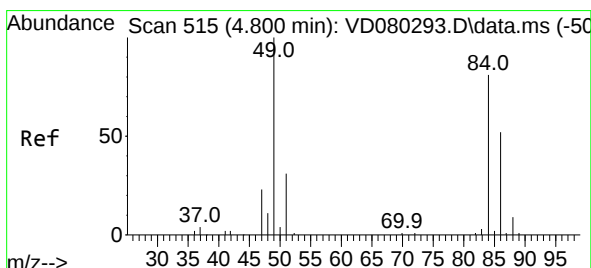
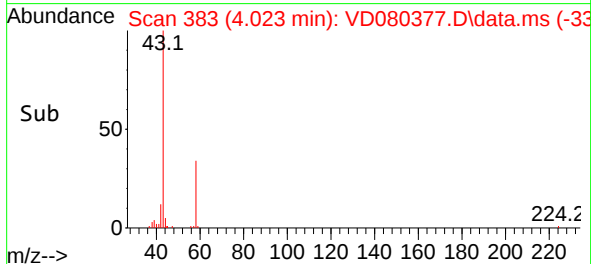
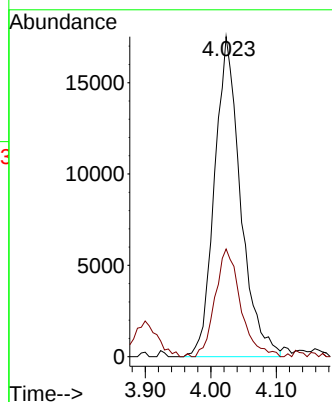
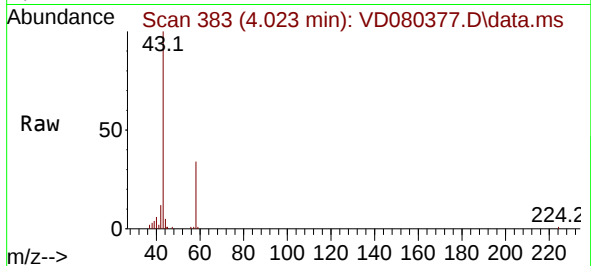




#16
Acetone
Concen: 236.524 ug/l
RT: 4.023 min Scan# 384
Delta R.T. 0.000 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

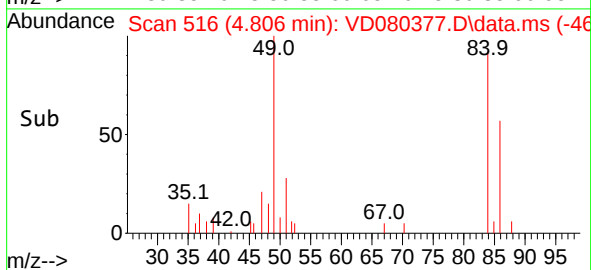
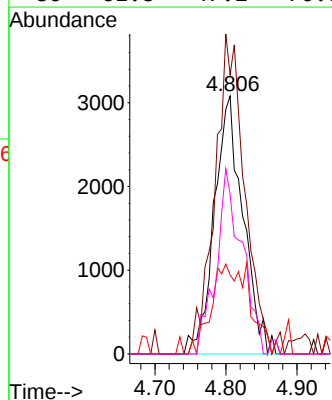
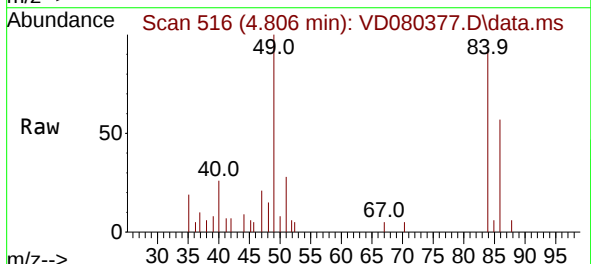
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

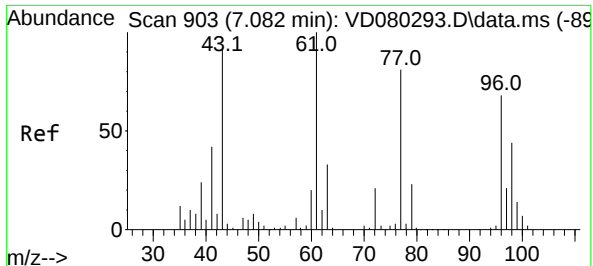
Tgt Ion: 43 Resp: 48278
Ion Ratio Lower Upper
43 100
58 33.6 25.4 38.2



#20
Methylene Chloride
Concen: 2.498 ug/l
RT: 4.806 min Scan# 516
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion: 84 Resp: 8695
Ion Ratio Lower Upper
84 100
49 108.2 86.5 129.7
51 30.6 26.9 40.3
86 61.8 47.2 70.8





#25

2-Butanone

Concen: 28.237 ug/l

RT: 7.088 min Scan# 903

Delta R.T. 0.001 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

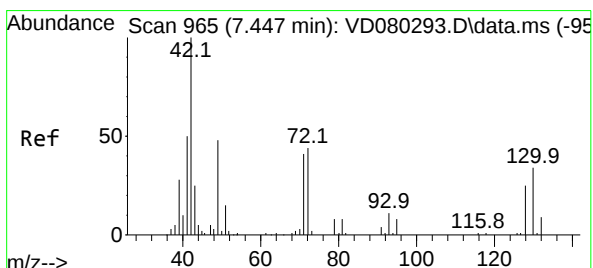
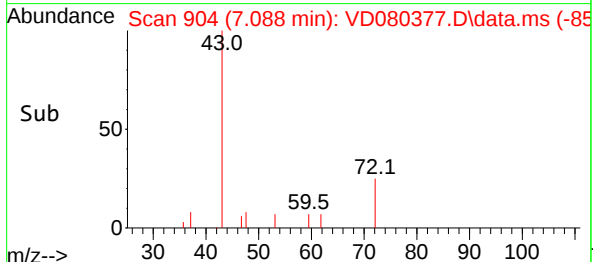
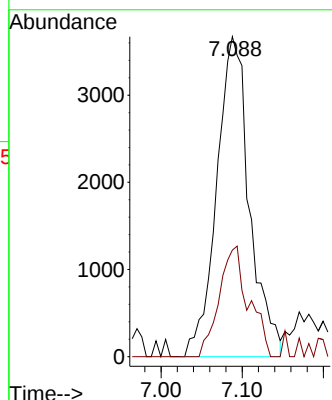
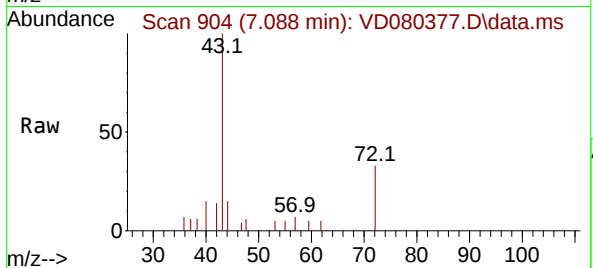
MOO-25-0145

Tgt Ion: 43 Resp: 10313

Ion Ratio Lower Upper

43 100

72 33.3 22.3 33.5



#29

Tetrahydrofuran

Concen: 3.448 ug/l

RT: 7.453 min Scan# 966

Delta R.T. 0.007 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

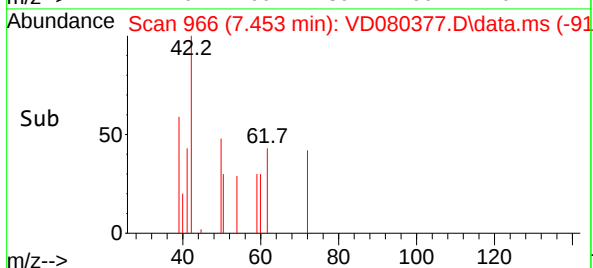
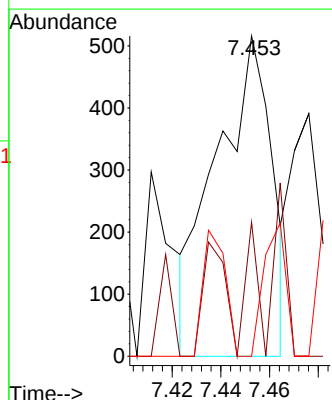
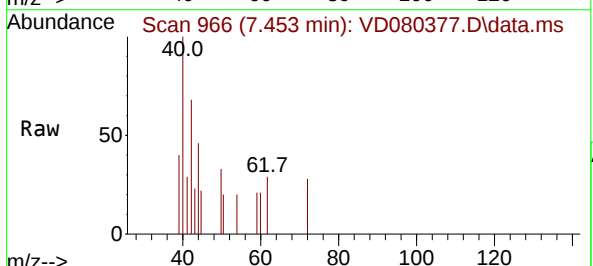
Tgt Ion: 42 Resp: 821

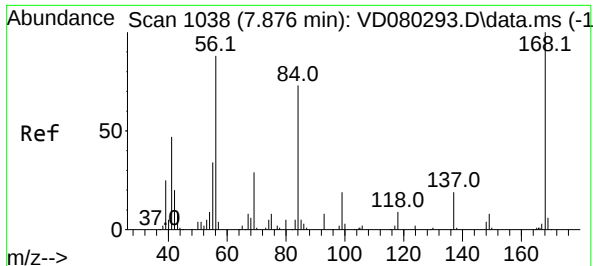
Ion Ratio Lower Upper

42 100

72 9.3 36.7 55.1#

71 16.3 34.4 51.6#





#31

Cyclohexane

Concen: 1.343 ug/l

RT: 7.870 min Scan# 1037

Delta R.T. -0.011 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0145

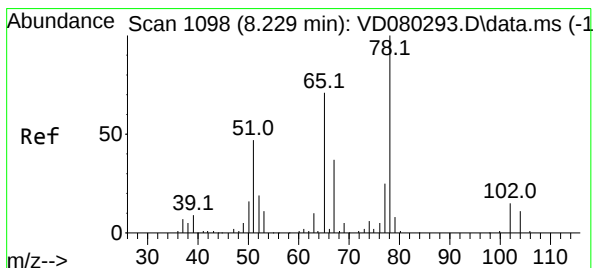
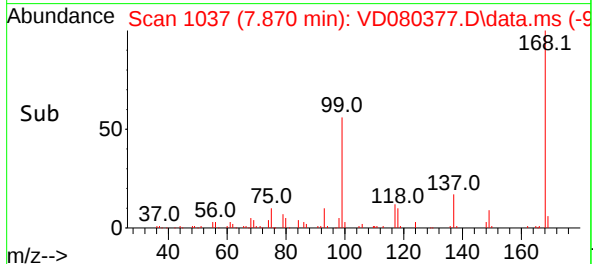
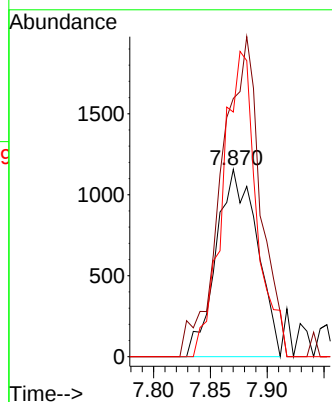
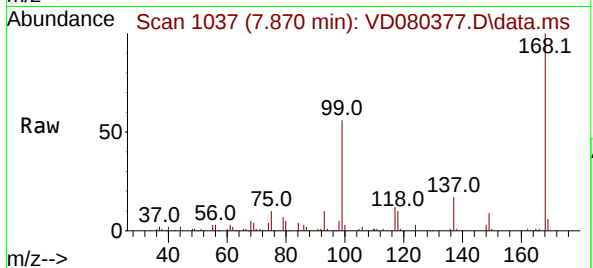
Tgt Ion: 56 Resp: 2897

Ion Ratio Lower Upper

56 100

69 137.9 27.3 40.9#

84 130.6 70.2 105.4#



#33

1,2-Dichloroethane-d4

Concen: 44.188 ug/l

RT: 8.229 min Scan# 1098

Delta R.T. 0.001 min

Lab File: VD080377.D

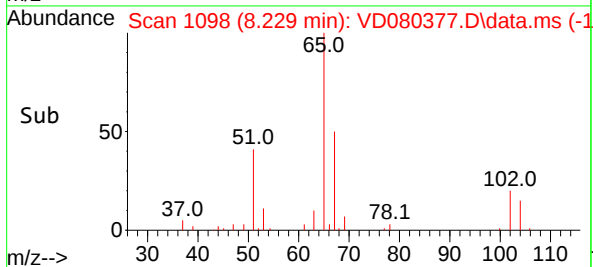
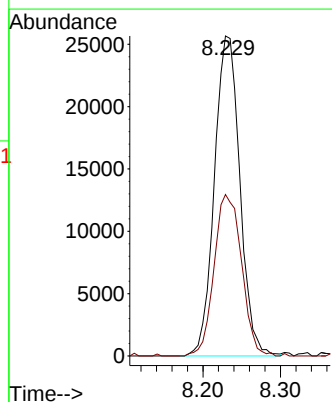
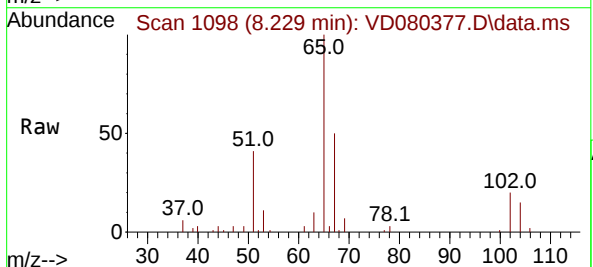
Acq: 16 May 2025 17:44

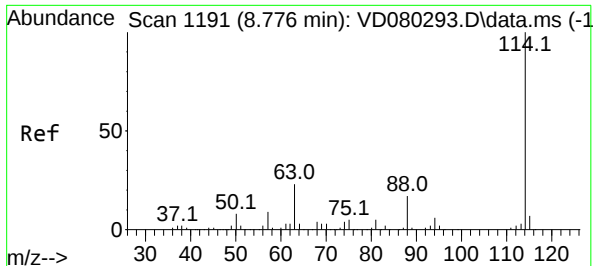
Tgt Ion: 65 Resp: 58655

Ion Ratio Lower Upper

65 100

67 54.3 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.776 min Scan# 1191

Delta R.T. 0.001 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0145

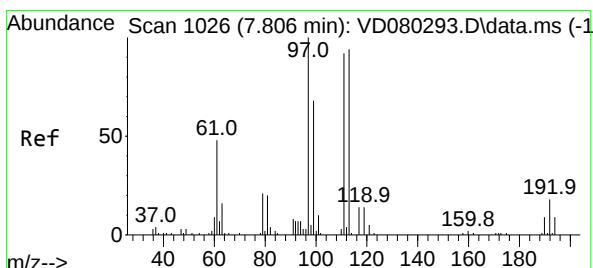
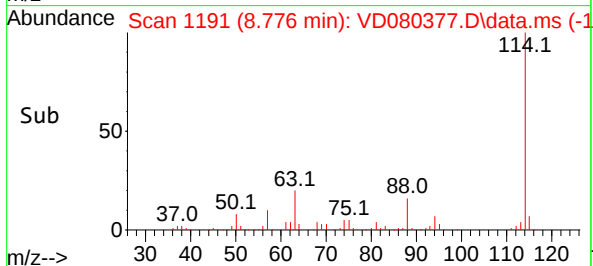
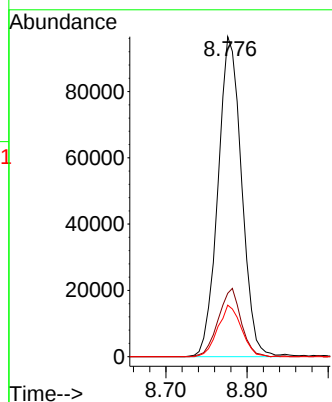
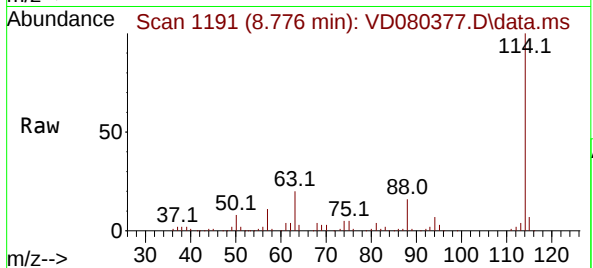
Tgt Ion:114 Resp: 195274

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.8

88 16.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.968 ug/l

RT: 7.806 min Scan# 1026

Delta R.T. 0.001 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

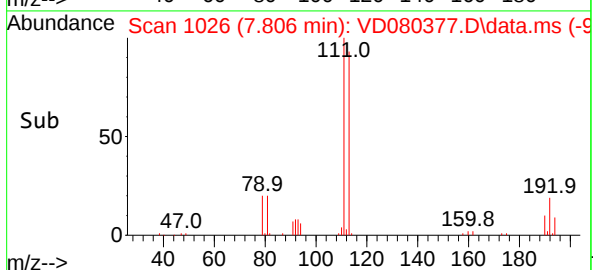
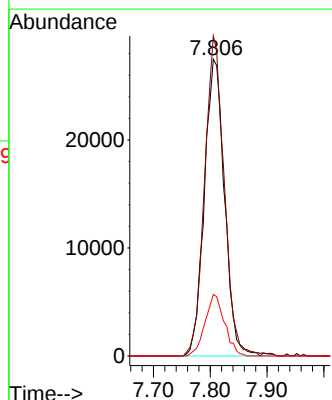
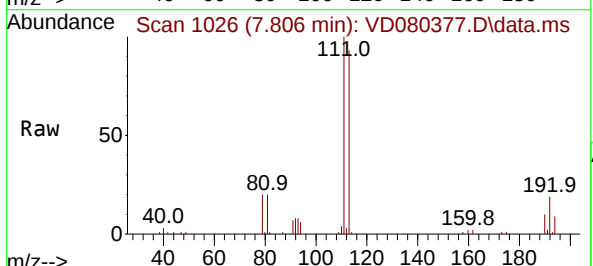
Tgt Ion:113 Resp: 68016

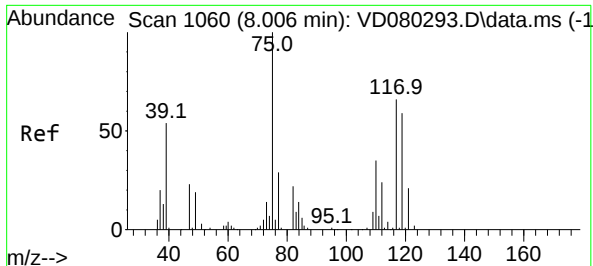
Ion Ratio Lower Upper

113 100

111 103.6 82.5 123.7

192 19.9 16.6 25.0





#36

1,1-Dichloropropene

Concen: 4.779 ug/l

RT: 7.882 min Scan# 1039

Delta R.T. -0.123 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0145

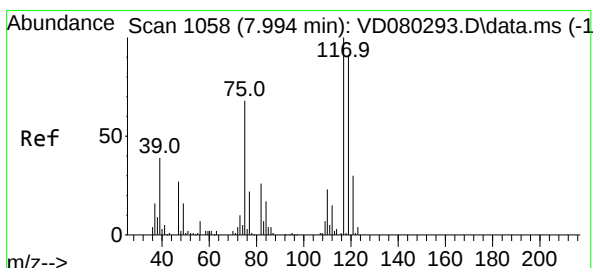
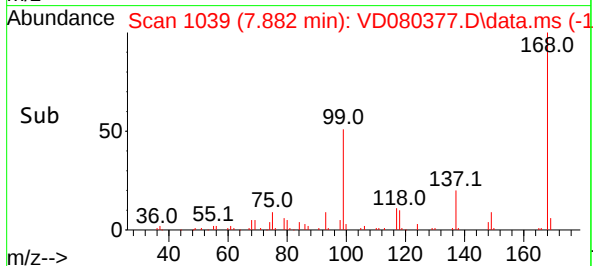
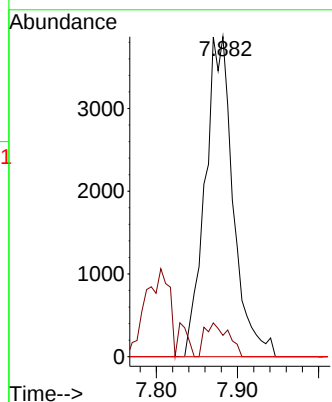
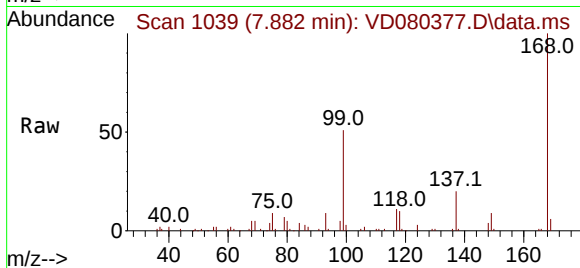
Tgt Ion: 75 Resp: 9347

Ion Ratio Lower Upper

75 100

110 8.8 18.4 55.0#

77 0.0 25.6 38.4#



#38

Carbon Tetrachloride

Concen: 5.506 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.111 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

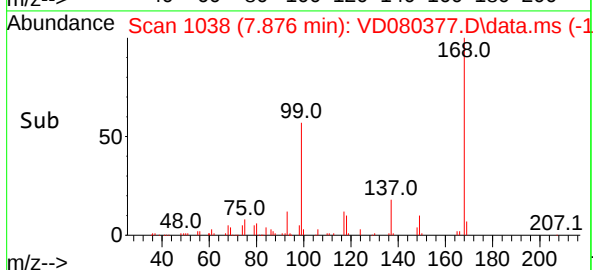
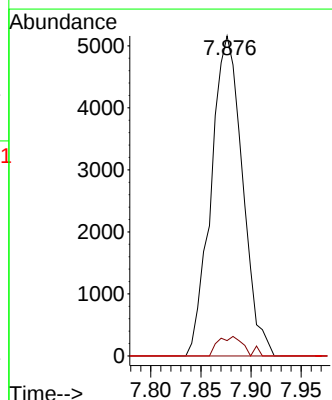
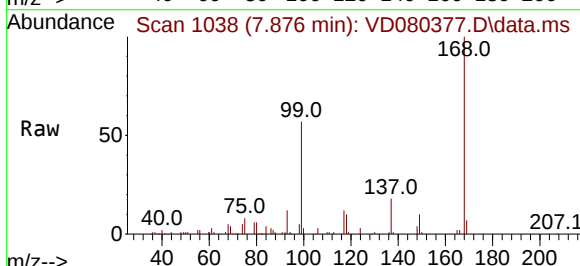
Tgt Ion: 117 Resp: 11231

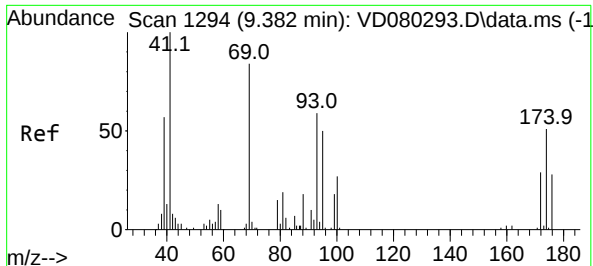
Ion Ratio Lower Upper

117 100

119 4.8 73.4 110.0#

121 0.0 24.5 36.7#





#48

Methyl methacrylate

Concen: 4.550 ug/l

RT: 9.347 min Scan# 1

Delta R.T. -0.034 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0145

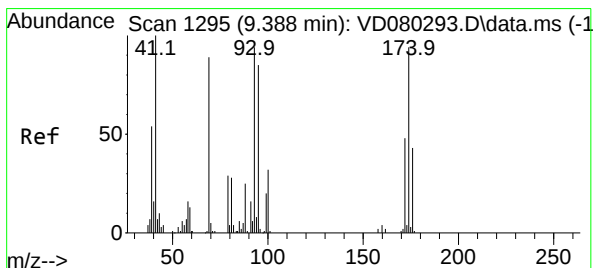
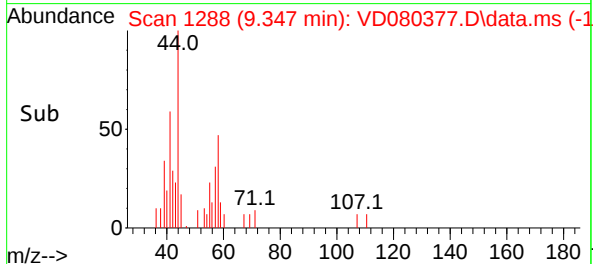
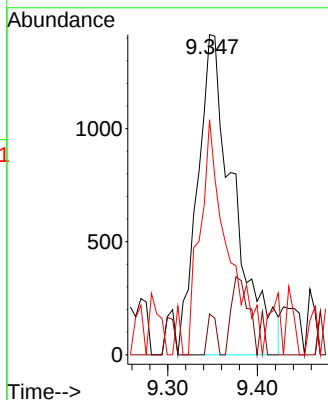
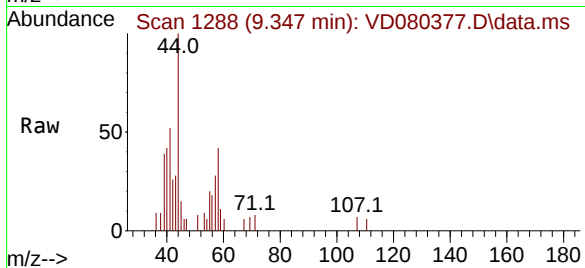
Tgt Ion: 41 Resp: 4010

Ion Ratio Lower Upper

41 100

69 3.0 74.0 111.0#

39 55.2 41.9 62.9



#49

1,4-Dioxane

Concen: 5.995 ug/l

RT: 9.288 min Scan# 1278

Delta R.T. -0.099 min

Lab File: VD080377.D

Acq: 16 May 2025 17:44

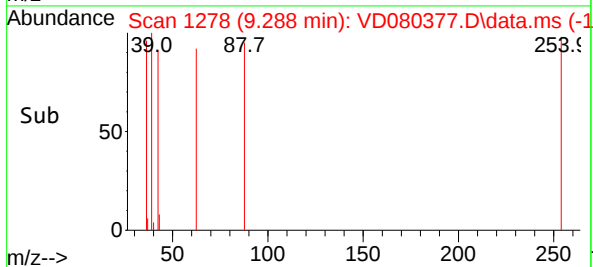
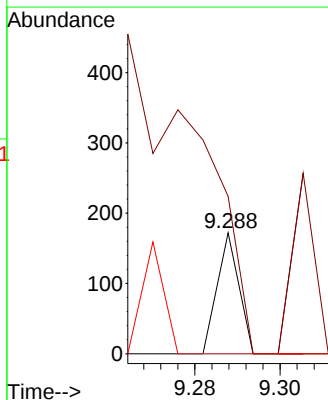
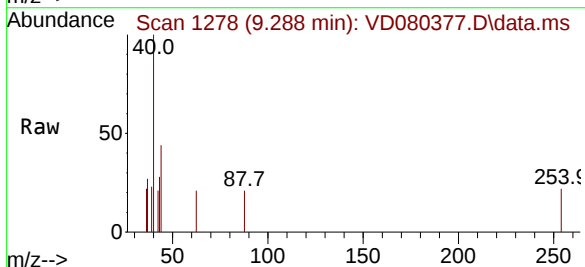
Tgt Ion: 88 Resp: 61

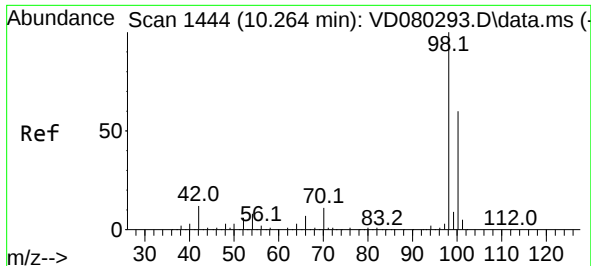
Ion Ratio Lower Upper

88 100

43 0.0 29.1 43.7#

58 0.0 59.9 89.9#

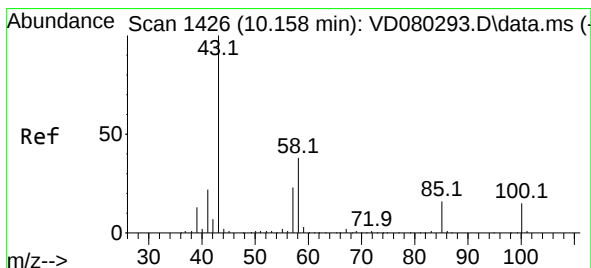
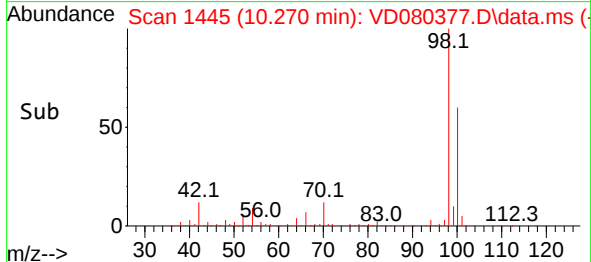
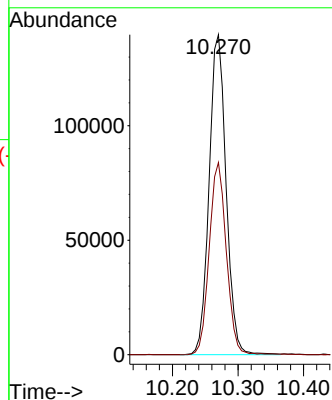
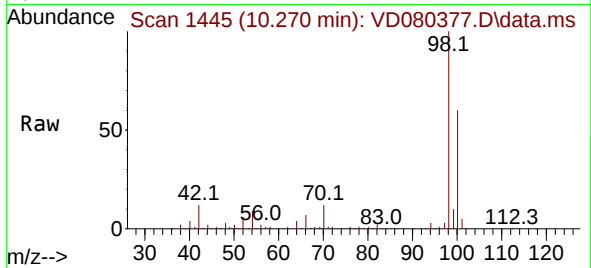




#50
Toluene-d8
Concen: 48.856 ug/l
RT: 10.270 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

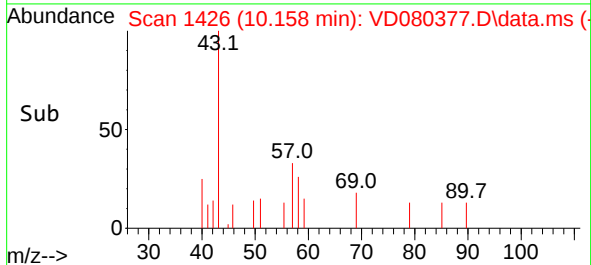
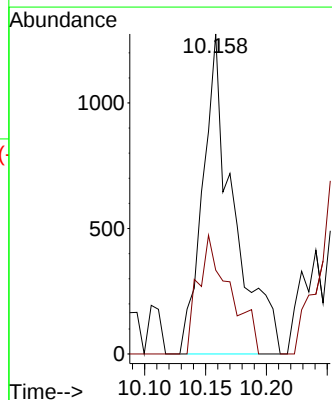
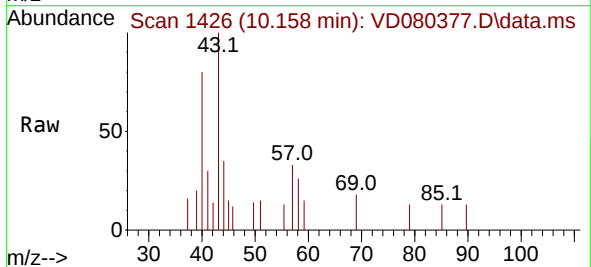
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

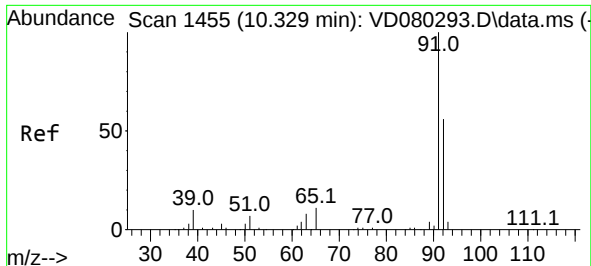
Tgt Ion: 98 Resp: 251940
Ion Ratio Lower Upper
98 100
100 60.4 50.2 75.4



#51
4-Methyl-2-Pentanone
Concen: 2.331 ug/l
RT: 10.158 min Scan# 1426
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion: 43 Resp: 2228
Ion Ratio Lower Upper
43 100
58 38.7 32.8 49.2

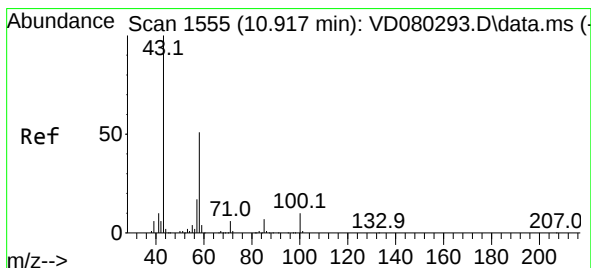
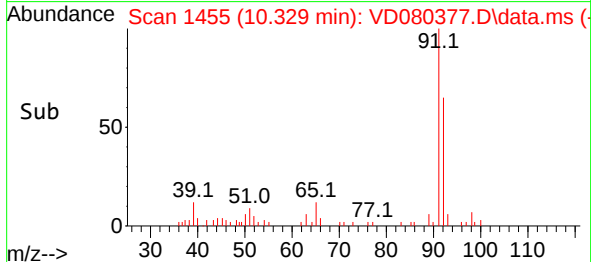
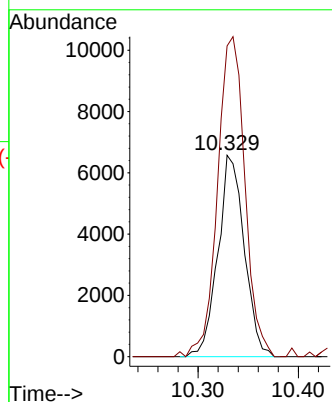
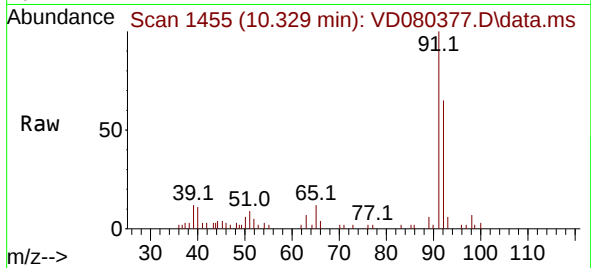




#52
Toluene
Concen: 3.243 ug/l
RT: 10.329 min Scan# 1455
Delta R.T. -0.005 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

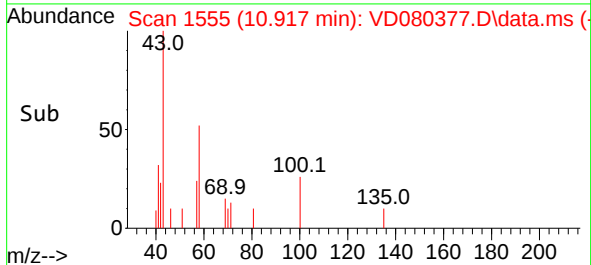
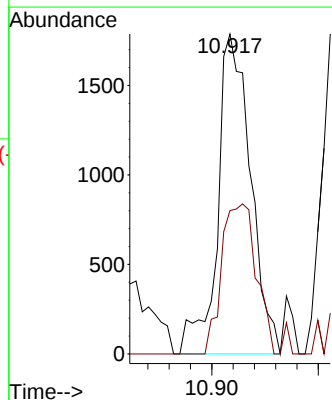
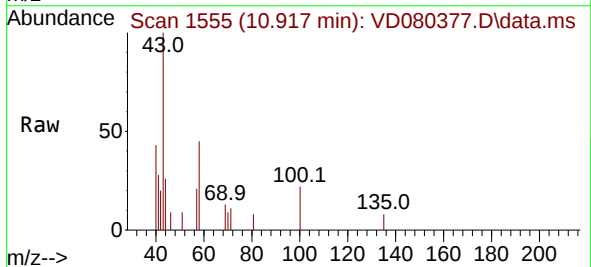
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

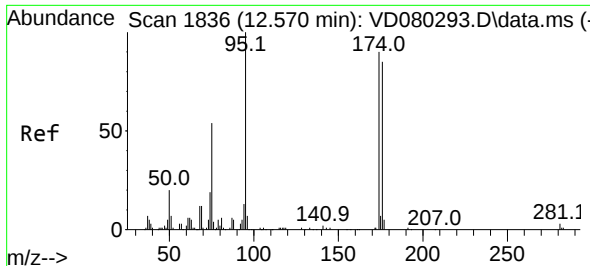
Tgt Ion: 92 Resp: 11976
Ion Ratio Lower Upper
92 100
91 165.0 139.3 208.9



#59
2-Hexanone
Concen: 5.834 ug/l
RT: 10.917 min Scan# 1555
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion: 43 Resp: 3835
Ion Ratio Lower Upper
43 100
58 49.3 27.8 83.4

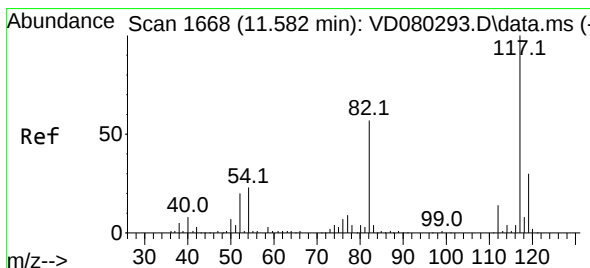
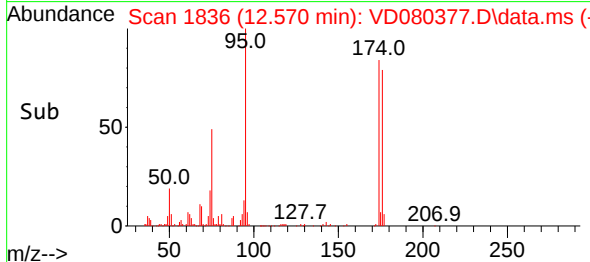
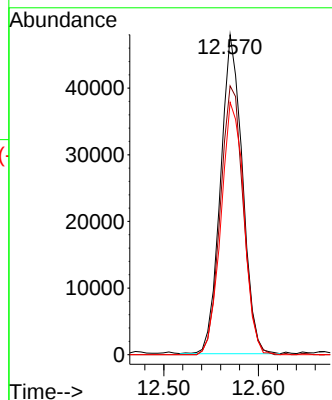
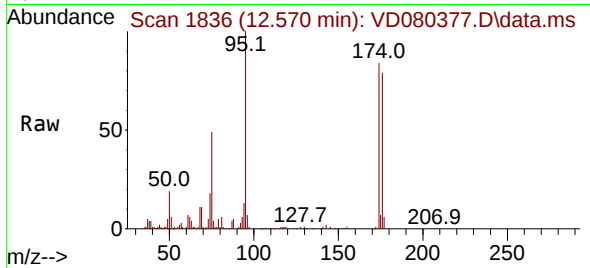




#62
4-Bromofluorobenzene
Concen: 46.570 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

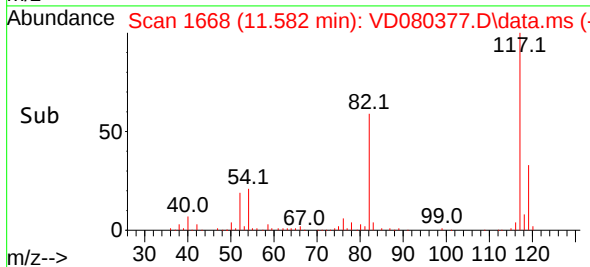
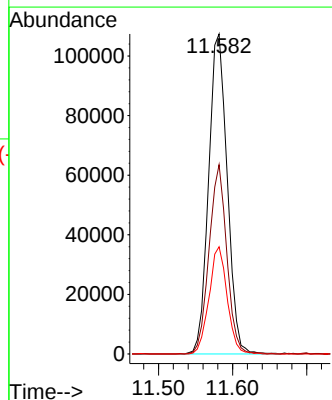
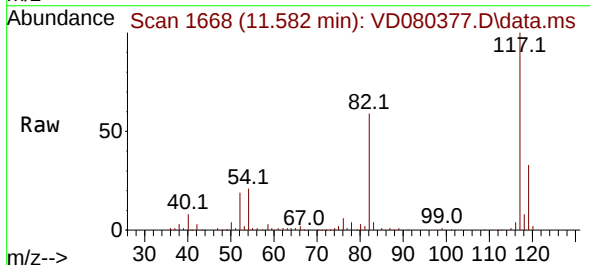
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

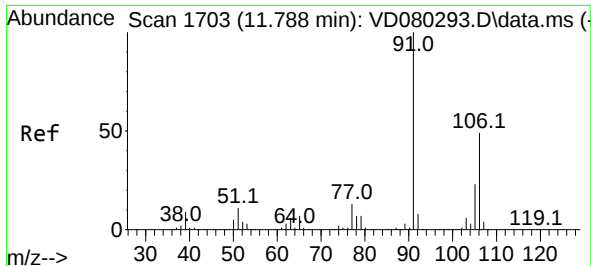
Tgt Ion: 95 Resp: 77081
Ion Ratio Lower Upper
95 100
174 88.1 0.0 173.4
176 82.6 0.0 166.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 1668
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion: 117 Resp: 187175
Ion Ratio Lower Upper
117 100
82 59.2 45.8 68.6
119 33.5 26.2 39.2

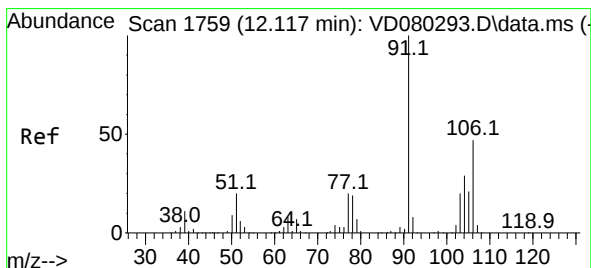
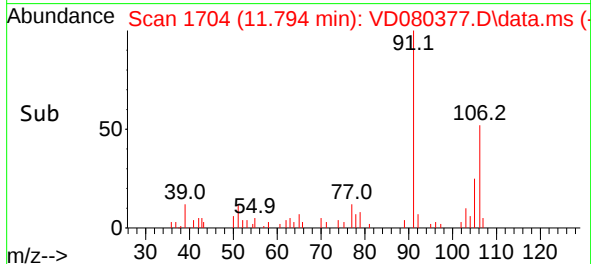
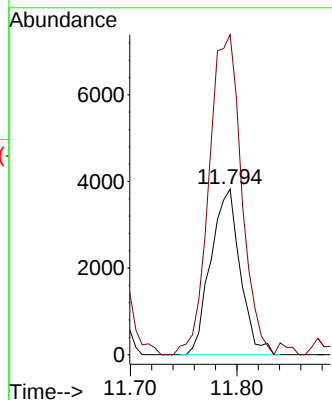
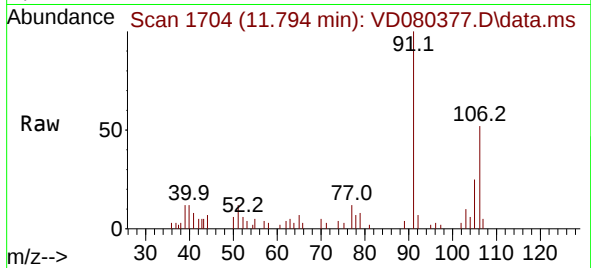




#68
m/p-Xylenes
Concen: 2.675 ug/l
RT: 11.794 min Scan# 1704
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

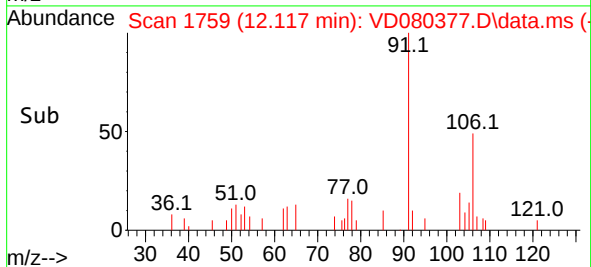
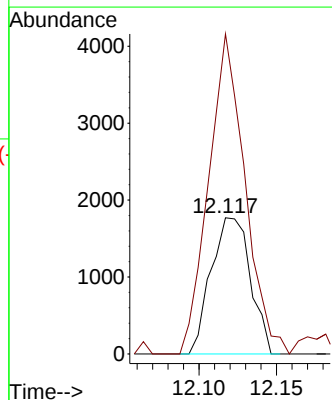
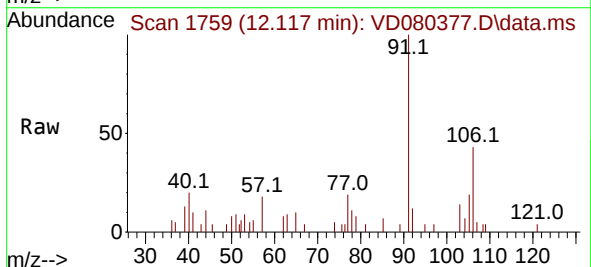
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

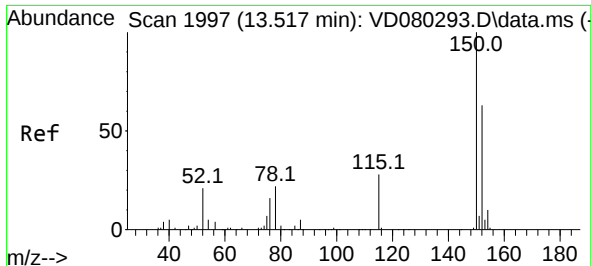
Tgt Ion:106 Resp: 7335
Ion Ratio Lower Upper
106 100
91 213.2 162.6 244.0



#69
o-Xylene
Concen: 1.245 ug/l
RT: 12.117 min Scan# 1759
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion:106 Resp: 3119
Ion Ratio Lower Upper
106 100
91 217.4 110.5 331.5

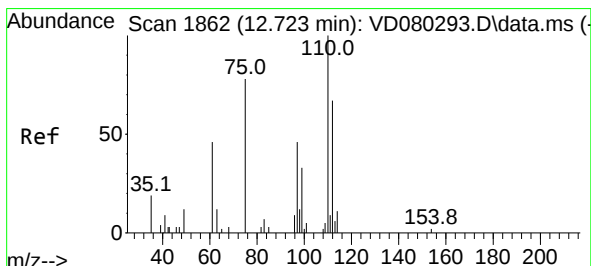
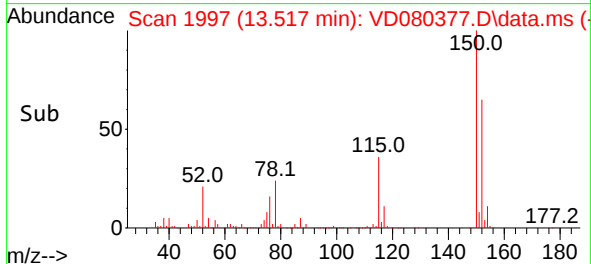
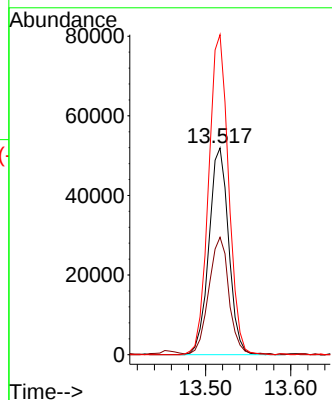
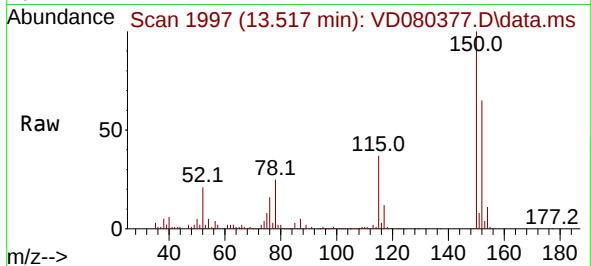




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.517 min Scan# 1997
 Delta R.T. 0.001 min
 Lab File: VD080377.D
 Acq: 16 May 2025 17:44

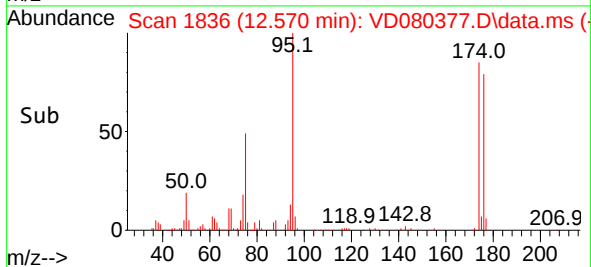
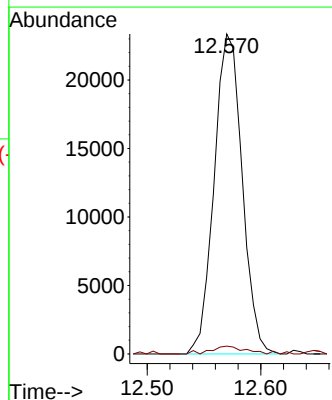
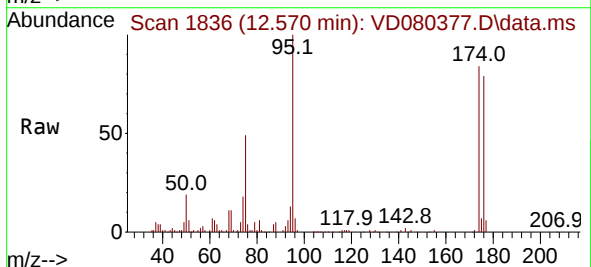
Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0145

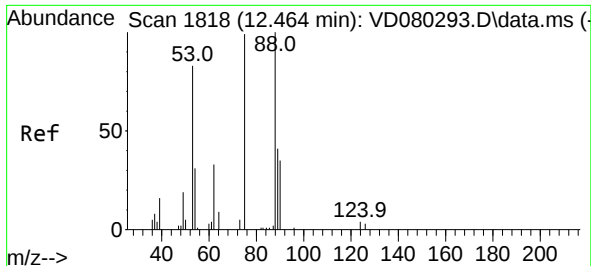
Tgt Ion:152 Resp: 83393
 Ion Ratio Lower Upper
 152 100
 115 58.3 28.9 86.8
 150 156.3 0.0 354.8



#76
 1,2,3-Trichloropropane
 Concen: 49.748 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. -0.152 min
 Lab File: VD080377.D
 Acq: 16 May 2025 17:44

Tgt Ion: 75 Resp: 40040
 Ion Ratio Lower Upper
 75 100
 77 2.9 0.0 0.0#

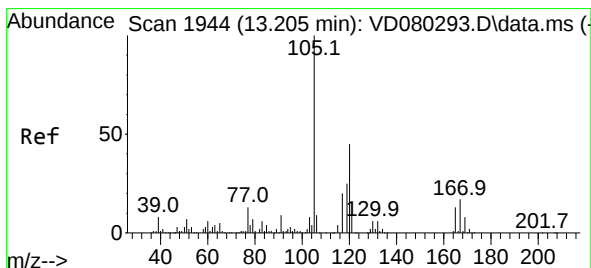
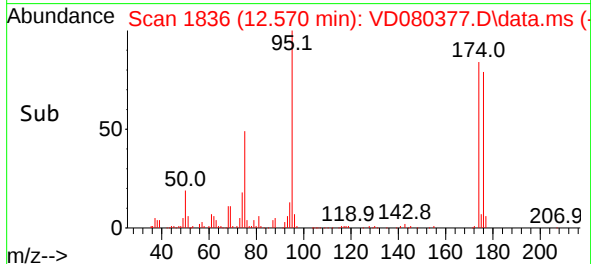
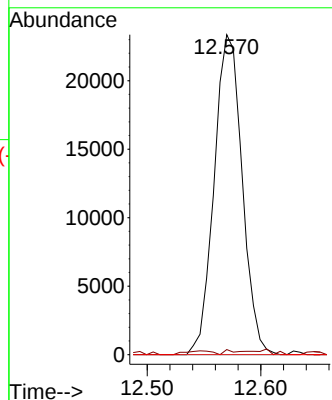
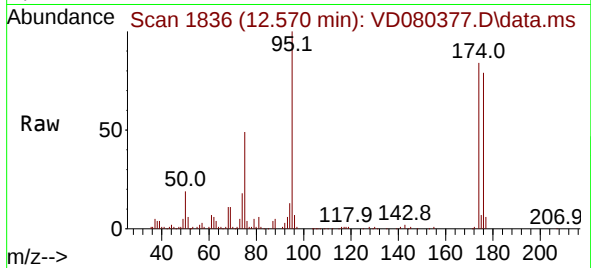




#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.431 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. 0.101 min
 Lab File: VD080377.D
 Acq: 16 May 2025 17:44

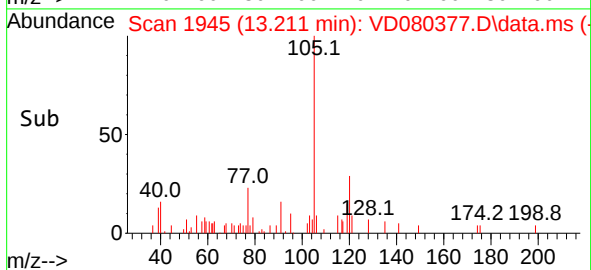
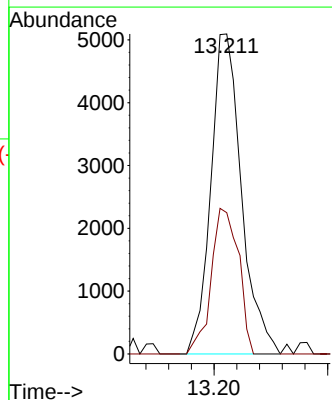
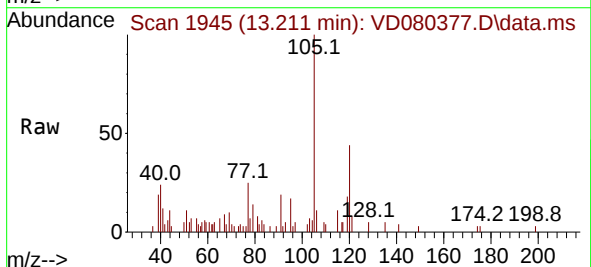
Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0145

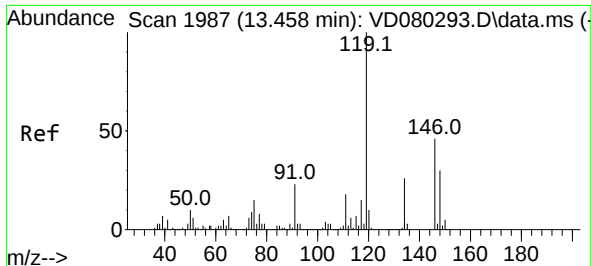
Tgt Ion: 75 Resp: 40040
 Ion Ratio Lower Upper
 75 100
 53 0.7 68.7 103.1#
 89 0.0 36.1 54.1#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.021 ug/l
 RT: 13.211 min Scan# 1945
 Delta R.T. 0.001 min
 Lab File: VD080377.D
 Acq: 16 May 2025 17:44

Tgt Ion: 105 Resp: 9543
 Ion Ratio Lower Upper
 105 100
 120 40.6 22.8 68.4

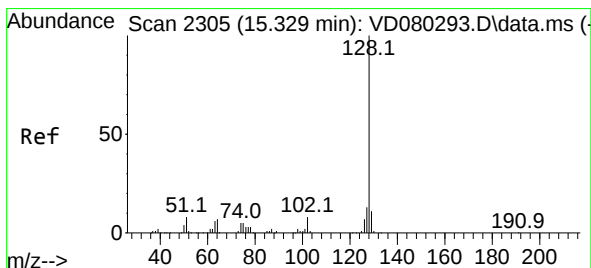
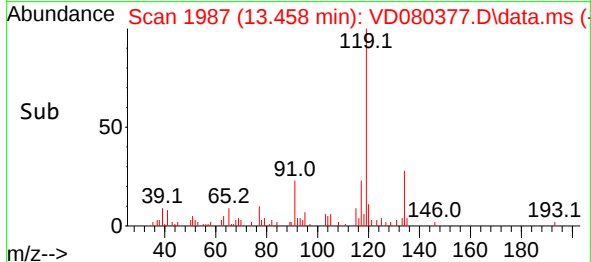
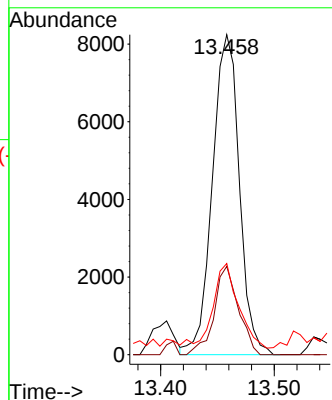
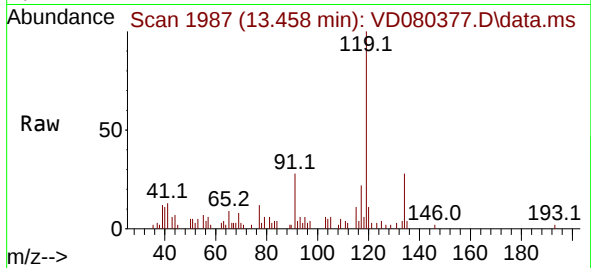




#86
p-Isopropyltoluene
Concen: 2.716 ug/l
RT: 13.458 min Scan# 1987
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

Tgt Ion:	119	Resp:	13551
Ion	Ratio	Lower	Upper
119	100		
134	24.9	13.1	39.1
91	24.3	12.2	36.4



#95
Naphthalene
Concen: 6.111 ug/l
RT: 15.329 min Scan# 2305
Delta R.T. 0.001 min
Lab File: VD080377.D
Acq: 16 May 2025 17:44

Tgt Ion:	128	Resp:	18344
Ion	Ratio	Lower	Upper
128	100		
127	15.2	11.8	17.8
129	13.0	8.3	12.5

