

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051325\
 Data File : VD080314.D
 Acq On : 13 May 2025 21:08
 Operator : RP/MD
 Sample : Q1980-06
 Misc : 4.08G/10ml/MSVOA_D/SOIL/B
 ALS Vial : 18 Sample Multiplier: 1

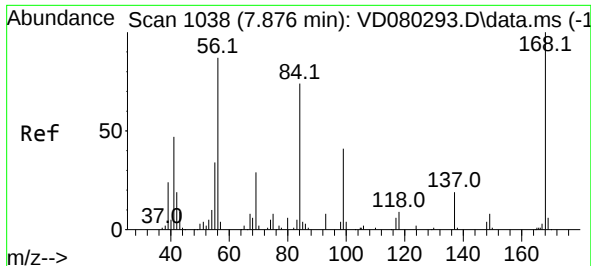
Instrument :
 MSVOA_D
 ClientSampleId :
 3836RE

Quant Time: May 14 01:37:14 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	49250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	132244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.576	117	90778	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	16764	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	57898	90.908	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 181.820%#			
35) Dibromofluoromethane	7.806	113	61433	69.310	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 138.620%			
50) Toluene-d8	10.270	98	140034	40.098	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 80.200%			
62) 4-Bromofluorobenzene	12.570	95	30646	27.340	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 54.680%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.871	85	67	Below Cal	#	43
3) Chloromethane	2.147	50	309	Below Cal		97
11) Tert butyl alcohol	5.053	59	3204	82.904	ug/l #	68
16) Acetone	4.018	43	1237	Below Cal	#	62
20) Methylene Chloride	4.812	84	1510	Below Cal	#	64
29) Tetrahydrofuran	7.423	42	145	1.269	ug/l #	60
31) Cyclohexane	7.876	56	1592	1.539	ug/l #	8
38) Carbon Tetrachloride	7.882	117	4764	3.448	ug/l #	14
49) 1,4-Dioxane	9.164	88	69	10.014	ug/l #	1
52) Toluene	10.329	92	2600	1.040	ug/l	99
68) m/p-Xylenes	11.794	106	2831	2.129	ug/l	93
69) o-Xylene	12.123	106	1570	1.292	ug/l	92
73) Isopropylbenzene	12.417	105	3012	2.770	ug/l	95
74) N-amyl acetate	12.211	43	2260	7.241	ug/l #	81
75) 1,1,2,2-Tetrachloroethane	12.658	83	268	1.121	ug/l #	29
76) 1,2,3-Trichloropropane	12.570	75	16151	99.824	ug/l #	100
78) n-propylbenzene	12.758	91	6427	4.710	ug/l	96
79) 2-Chlorotoluene	12.858	91	1087	1.369	ug/l #	50
80) 1,3,5-Trimethylbenzene	12.899	105	7962	8.584	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.570	75	16151	189.483	ug/l #	16
83) tert-Butylbenzene	13.211	119	3920	5.065	ug/l #	43
84) 1,2,4-Trimethylbenzene	13.205	105	23842	25.124	ug/l	95
85) sec-Butylbenzene	13.346	105	4880	4.089	ug/l	90
86) p-Isopropyltoluene	13.399	119	5018	5.002	ug/l	91
89) n-Butylbenzene	13.782	91	9743	10.005	ug/l #	77
90) Hexachloroethane	14.058	117	1846	8.317	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.458	75	80	2.099	ug/l #	2
95) Naphthalene	15.323	128	4276	7.086	ug/l #	90

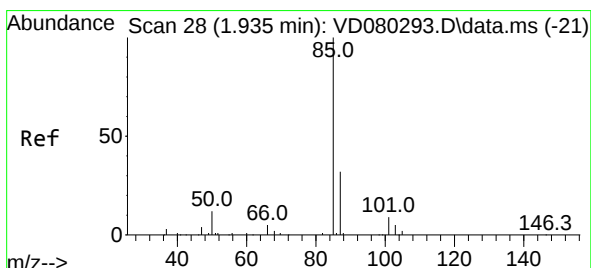
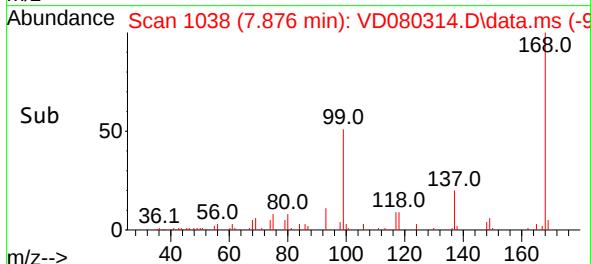
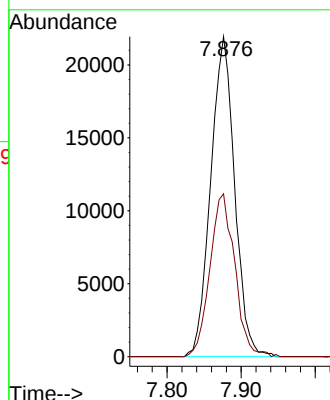
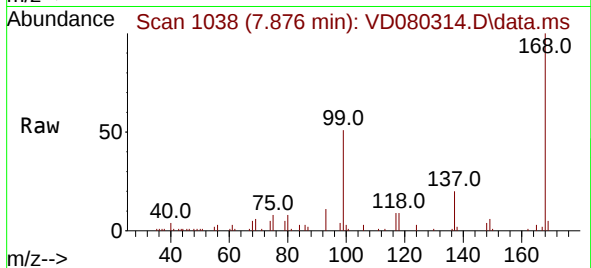
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 10
Delta R.T. 0.001 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

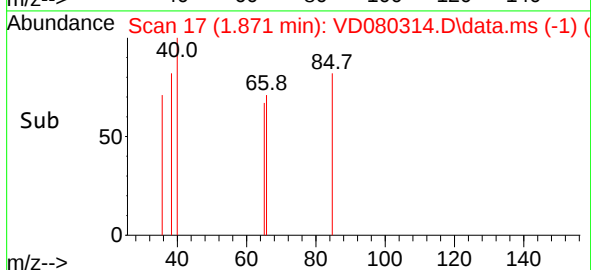
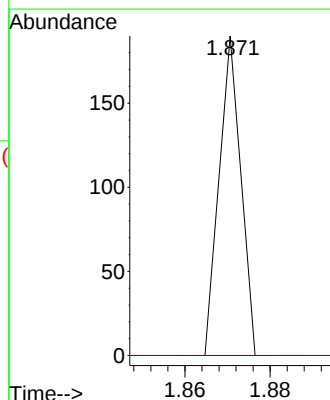
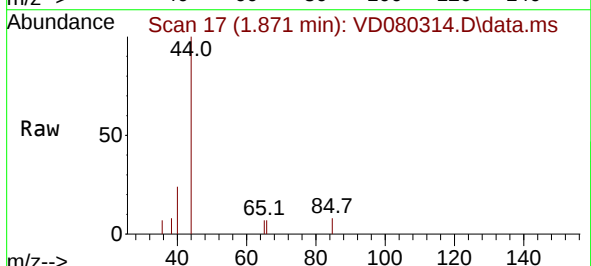
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MSVOA_D
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3836RE

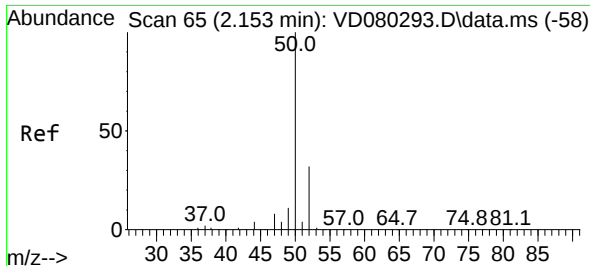
Tgt Ion:168 Resp: 49250
Ion Ratio Lower Upper
168 100
99 50.9 46.0 69.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.871 min Scan# 17
Delta R.T. -0.063 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion: 85 Resp: 67
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

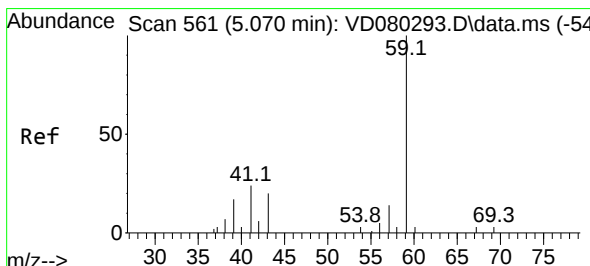
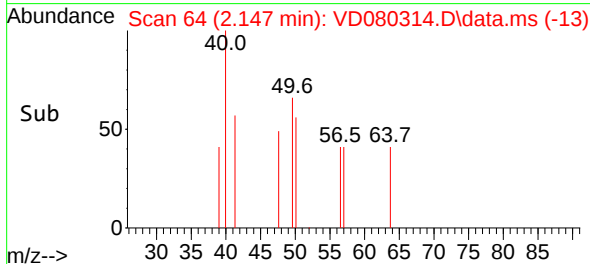
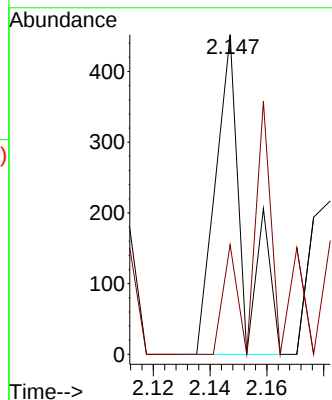
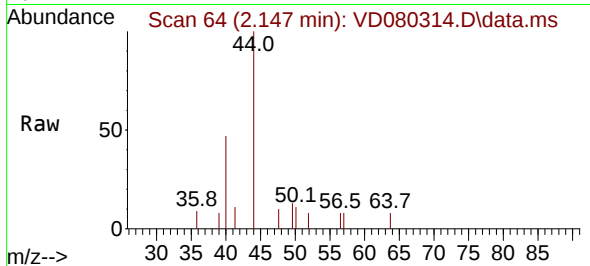




#3
Chloromethane
Concen: Below Cal
RT: 2.147 min Scan# 64
Delta R.T. 0.001 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

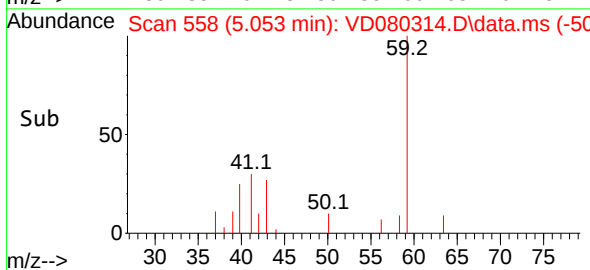
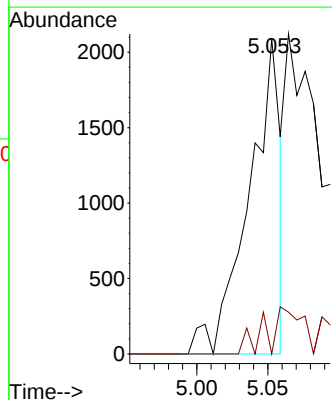
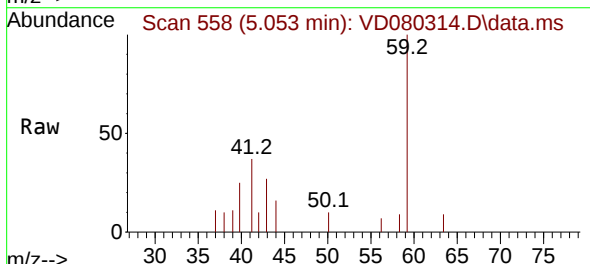
Instrument :
MSVOA_D
ClientSampleId :
3836RE

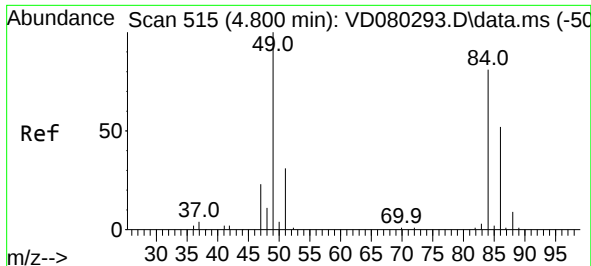
Tgt Ion: 50 Resp: 309
Ion Ratio Lower Upper
50 100
52 34.3 28.8 43.2



#11
Tert butyl alcohol
Concen: 82.904 ug/l
RT: 5.053 min Scan# 558
Delta R.T. -0.005 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

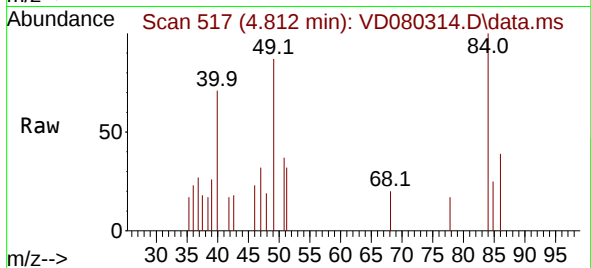
Tgt Ion: 59 Resp: 3204
Ion Ratio Lower Upper
59 100
57 16.7 4.8 7.2#



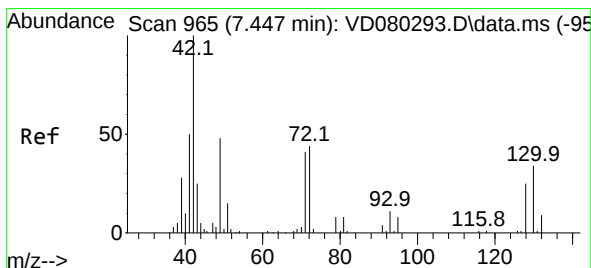
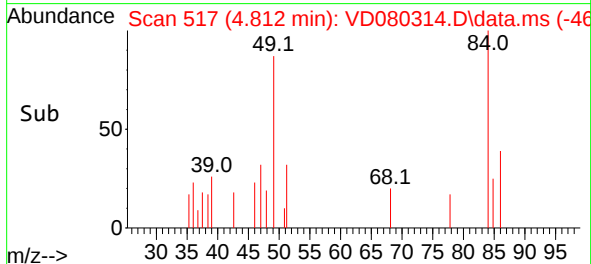
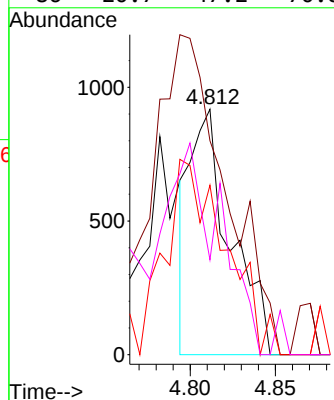


#20
Methylene Chloride
Concen: Below Cal
RT: 4.812 min Scan# 517
Delta R.T. 0.007 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Instrument :
MSVOA_D
ClientSampleId :
3836RE

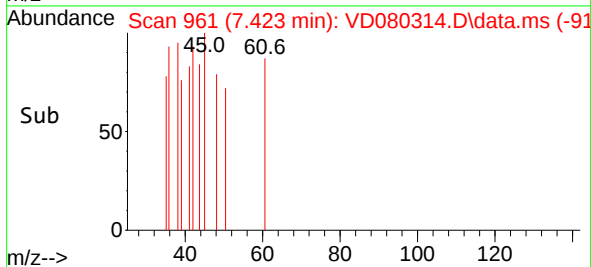
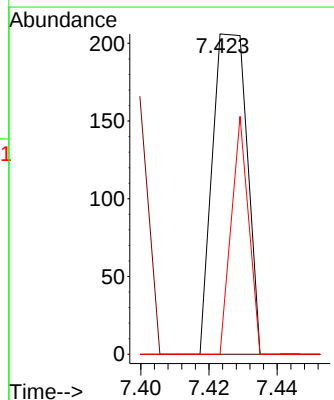
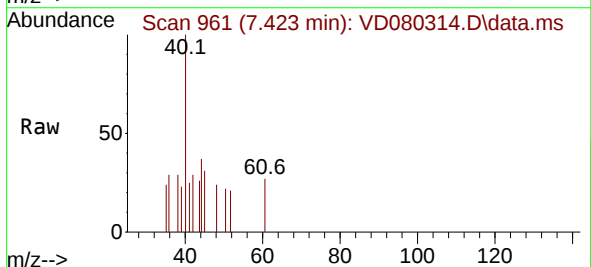


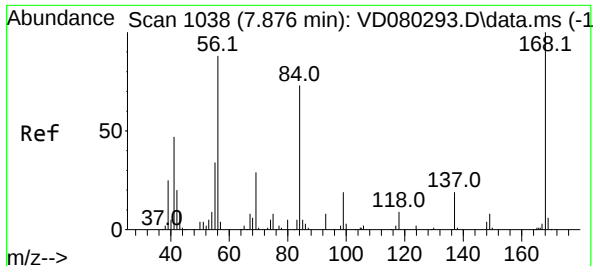
Tgt Ion:	84	Resp:	1510
Ion	Ratio	Lower	Upper
84	100		
49	87.1	86.5	129.7
51	69.1	26.9	40.3#
86	20.7	47.2	70.8#



#29
Tetrahydrofuran
Concen: 1.269 ug/l
RT: 7.423 min Scan# 961
Delta R.T. -0.023 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion:	42	Resp:	145
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.7	55.1#
71	37.2	34.4	51.6





#31

Cyclohexane

Concen: 1.539 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.005 min

Lab File: VD080314.D

Acq: 13 May 2025 21:08

Instrument :

MSVOA_D

ClientSampleId :

3836RE

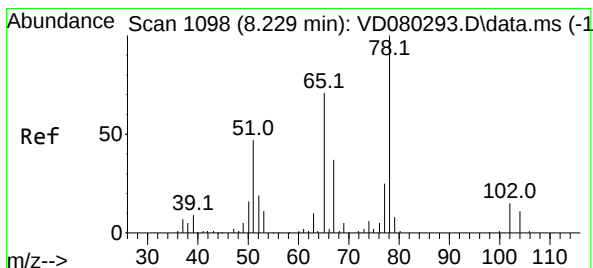
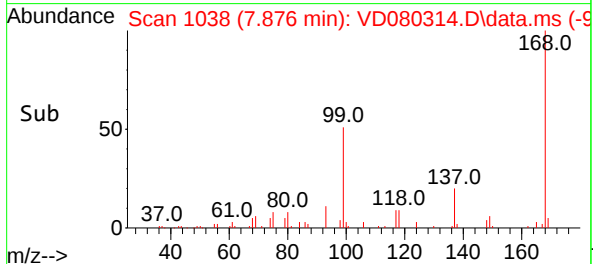
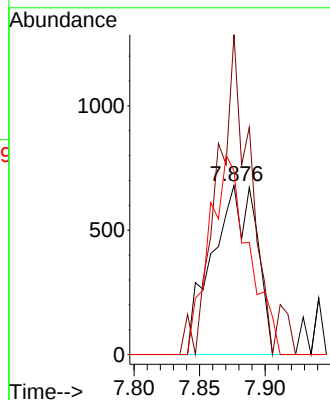
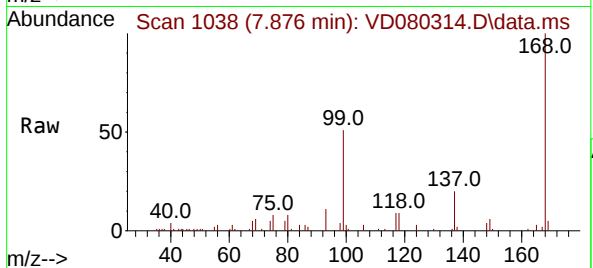
Tgt Ion: 56 Resp: 1592

Ion Ratio Lower Upper

56 100

69 189.1 27.3 40.9#

84 108.7 70.2 105.4#



#33

1,2-Dichloroethane-d4

Concen: 90.908 ug/l

RT: 8.229 min Scan# 1098

Delta R.T. 0.001 min

Lab File: VD080314.D

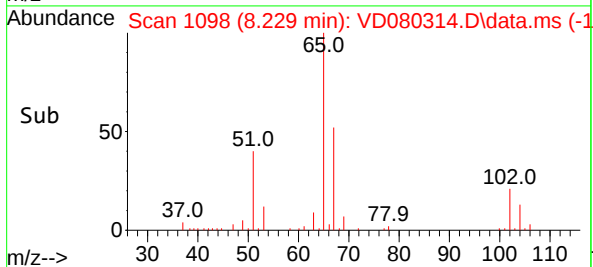
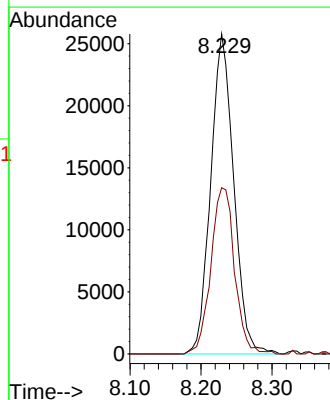
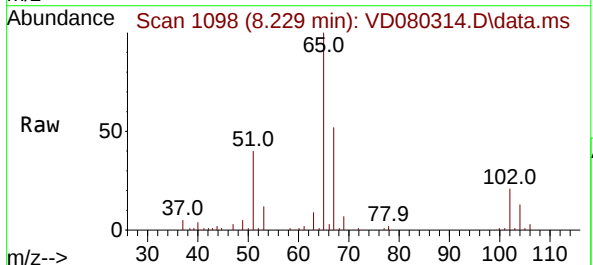
Acq: 13 May 2025 21:08

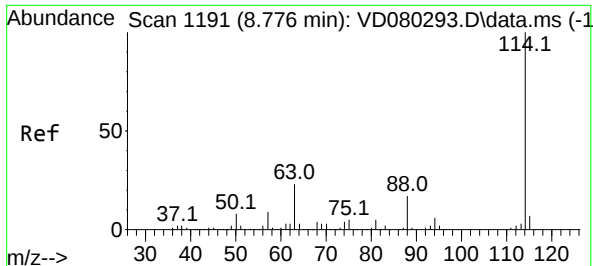
Tgt Ion: 65 Resp: 57898

Ion Ratio Lower Upper

65 100

67 53.5 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: VD080314.D

Acq: 13 May 2025 21:08

Instrument :

MSVOA_D

ClientSampleId :

3836RE

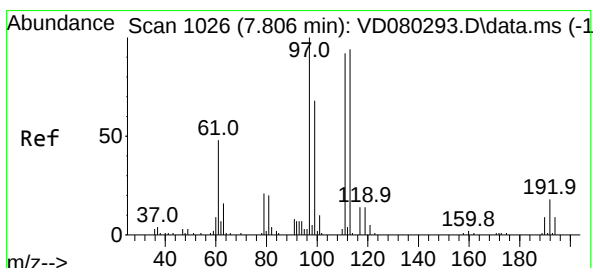
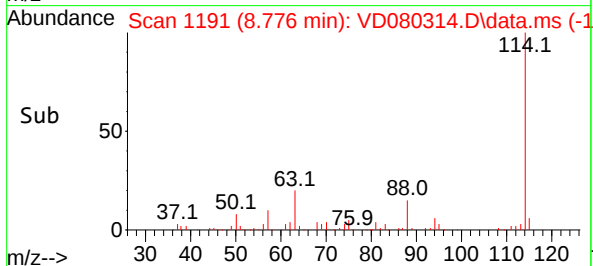
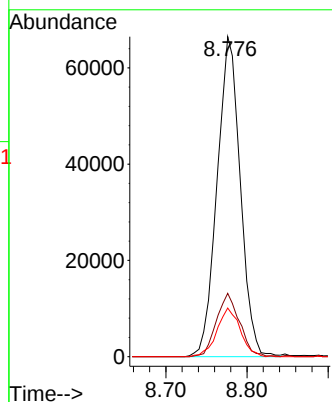
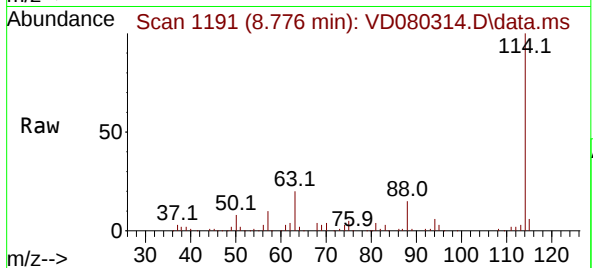
Tgt Ion:114 Resp: 132244

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.8

88 15.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 69.310 ug/l

RT: 7.806 min Scan# 1026

Delta R.T. 0.001 min

Lab File: VD080314.D

Acq: 13 May 2025 21:08

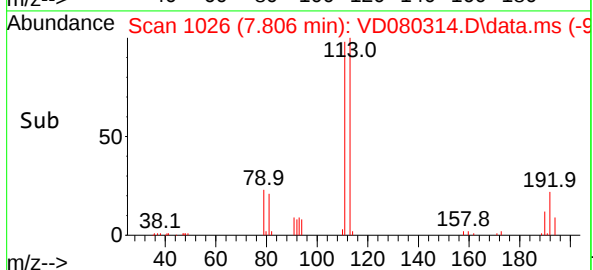
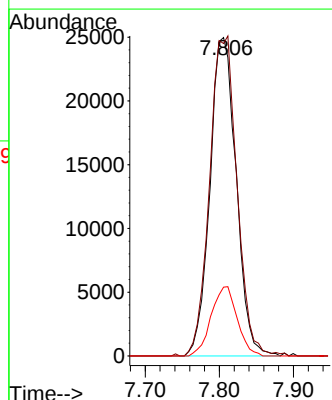
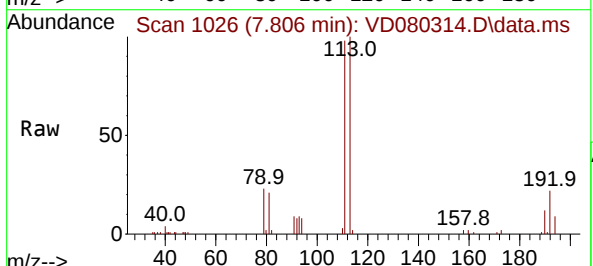
Tgt Ion:113 Resp: 61433

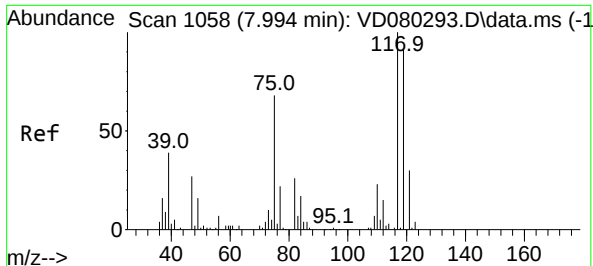
Ion Ratio Lower Upper

113 100

111 104.8 82.5 123.7

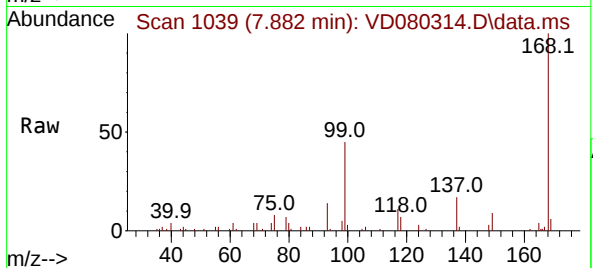
192 21.6 16.6 25.0



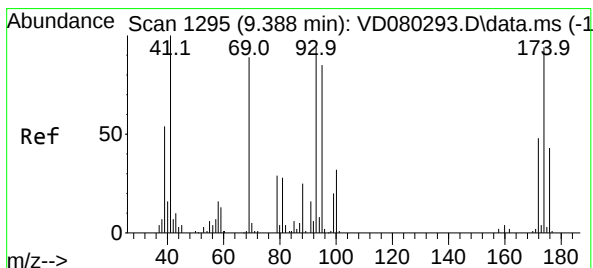
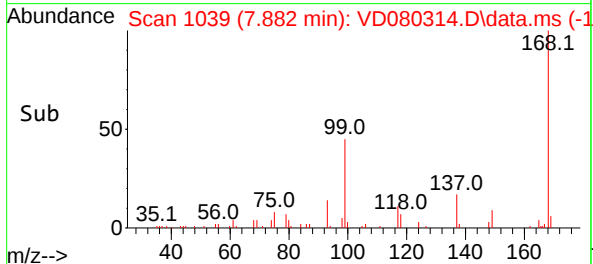
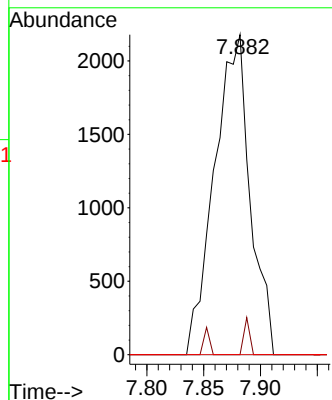


#38
Carbon Tetrachloride
Concen: 3.448 ug/l
RT: 7.882 min Scan# 1039
Delta R.T. -0.105 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Instrument :
MSVOA_D
ClientSampleId :
3836RE

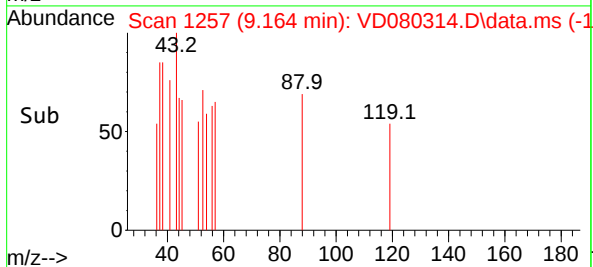
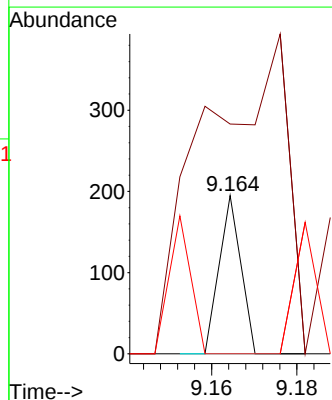
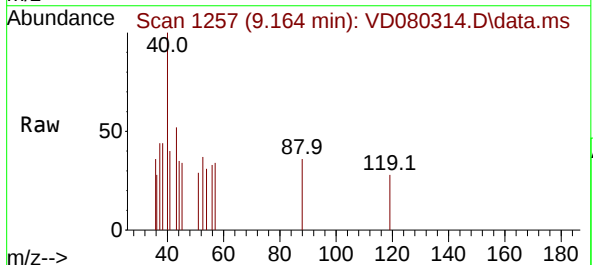


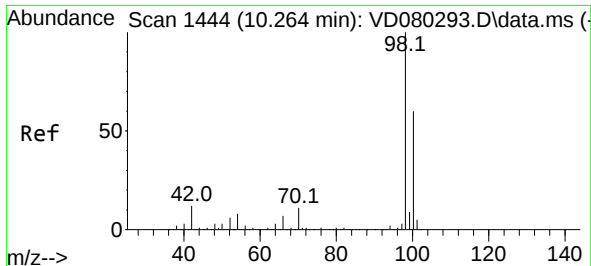
Tgt Ion:117 Resp: 4764
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.0#
121 0.0 24.5 36.7#



#49
1,4-Dioxane
Concen: 10.014 ug/l
RT: 9.164 min Scan# 1257
Delta R.T. -0.223 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion: 88 Resp: 69
Ion Ratio Lower Upper
88 100
43 843.5 29.1 43.7#
58 82.6 59.9 89.9

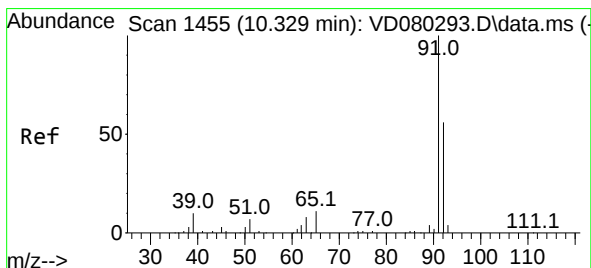
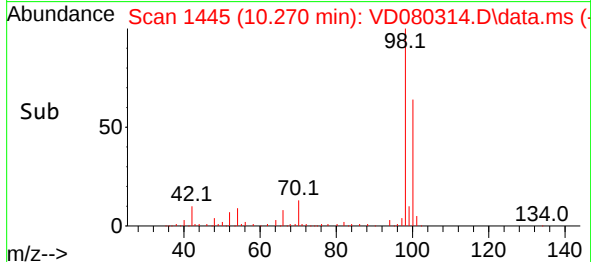
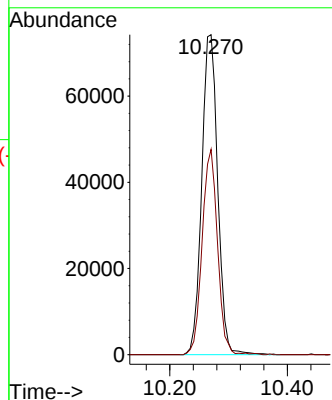
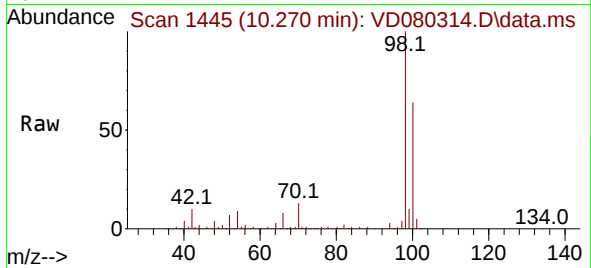




#50
Toluene-d8
Concen: 40.098 ug/l
RT: 10.270 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

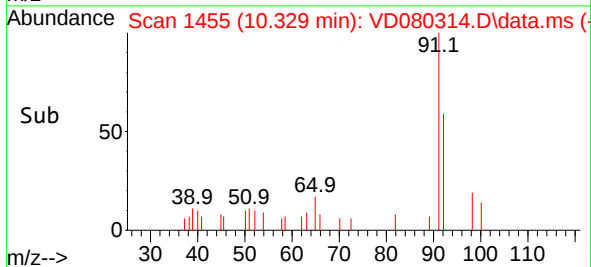
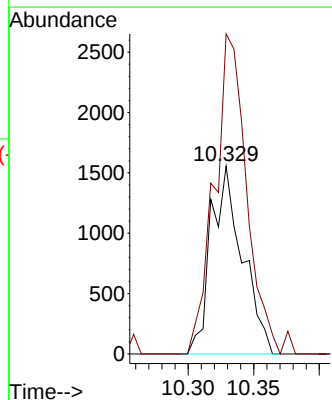
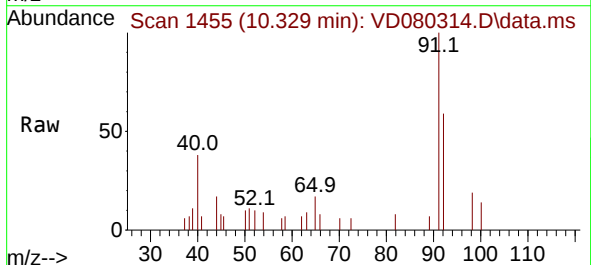
Instrument :
MSVOA_D
ClientSampleId :
3836RE

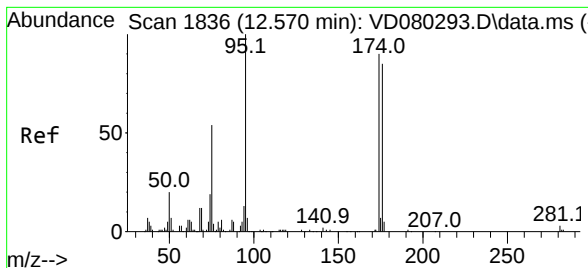
Tgt Ion: 98 Resp: 140034
Ion Ratio Lower Upper
98 100
100 61.7 50.2 75.4



#52
Toluene
Concen: 1.040 ug/l
RT: 10.329 min Scan# 1455
Delta R.T. -0.005 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion: 92 Resp: 2600
Ion Ratio Lower Upper
92 100
91 173.2 139.3 208.9

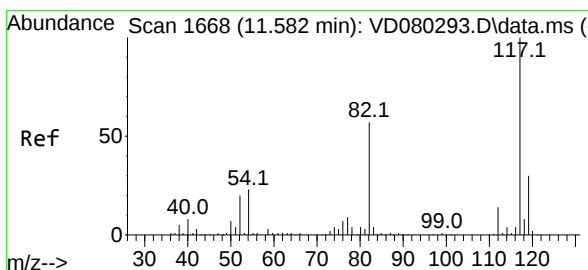
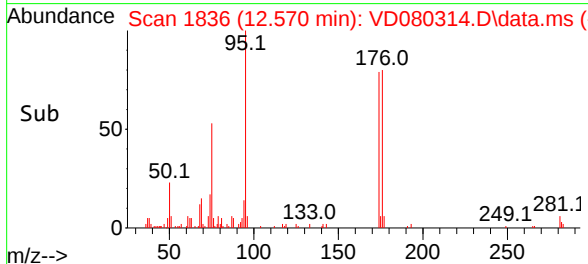
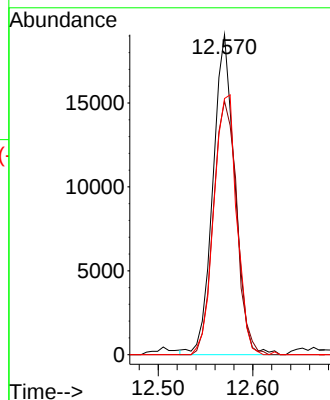
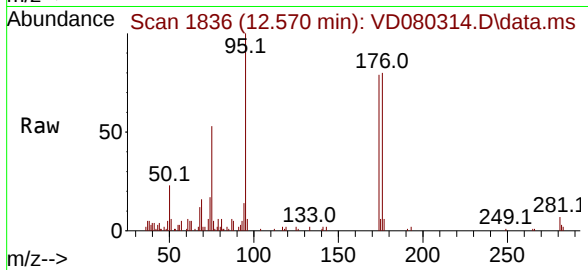




#62
4-Bromofluorobenzene
Concen: 27.340 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

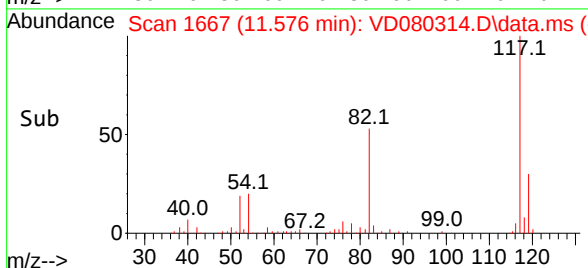
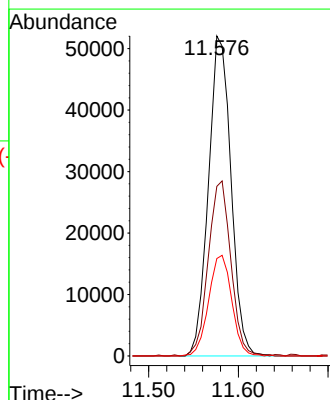
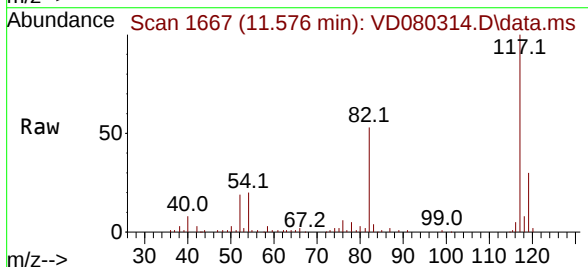
Instrument :
MSVOA_D
ClientSampleId :
3836RE

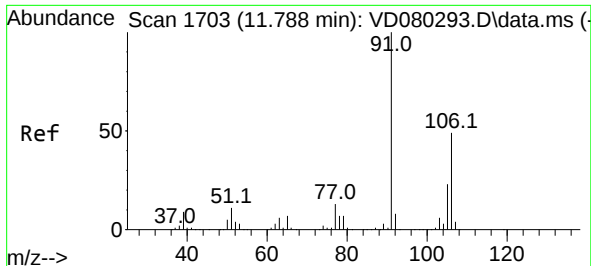
Tgt Ion: 95 Resp: 30646
Ion Ratio Lower Upper
95 100
174 84.6 0.0 173.4
176 84.9 0.0 166.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.576 min Scan# 1667
Delta R.T. -0.005 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion: 117 Resp: 90778
Ion Ratio Lower Upper
117 100
82 53.0 45.8 68.6
119 30.4 26.2 39.2

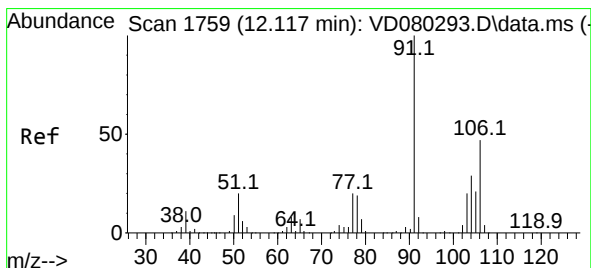
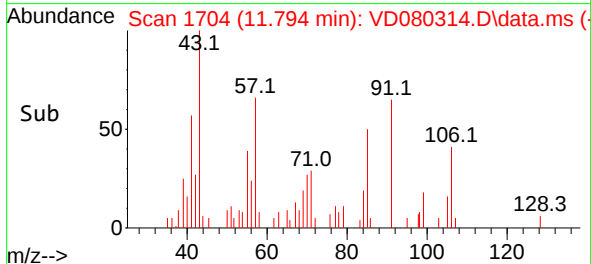
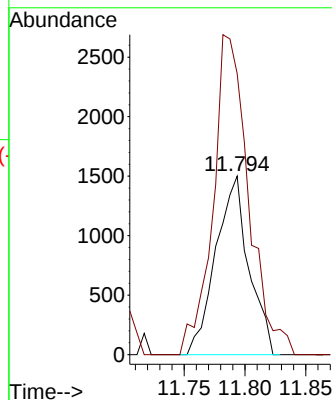
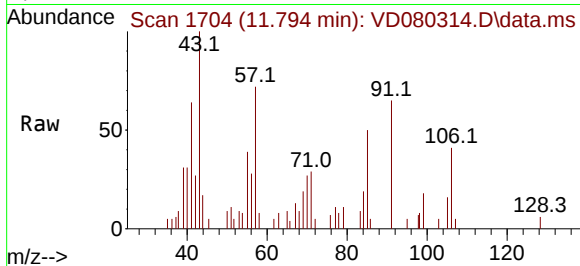




#68
m/p-Xylenes
Concen: 2.129 ug/l
RT: 11.794 min Scan# 11
Delta R.T. 0.001 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

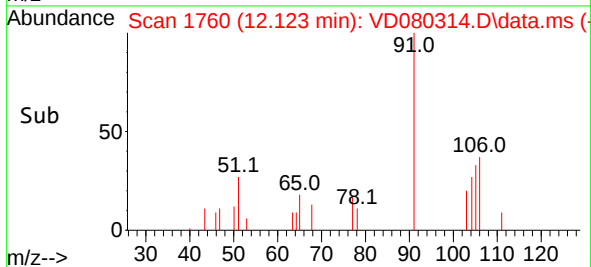
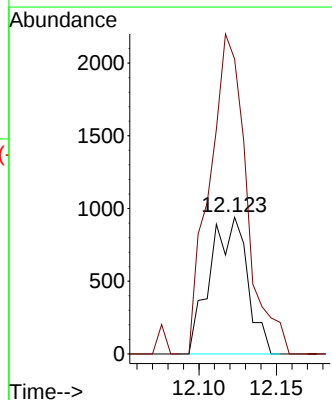
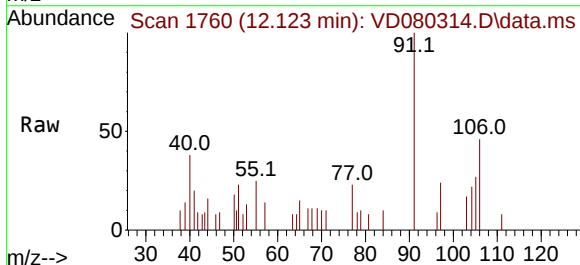
Instrument :
MSVOA_D
ClientSampleId :
3836RE

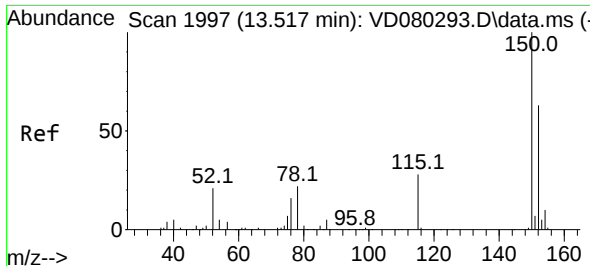
Tgt Ion:106 Resp: 2831
Ion Ratio Lower Upper
106 100
91 192.9 162.6 244.0



#69
o-Xylene
Concen: 1.292 ug/l
RT: 12.123 min Scan# 1760
Delta R.T. 0.007 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion:106 Resp: 1570
Ion Ratio Lower Upper
106 100
91 233.2 110.5 331.5

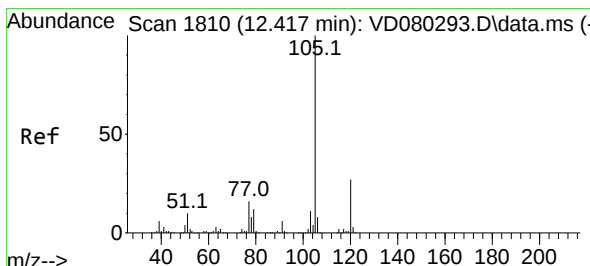
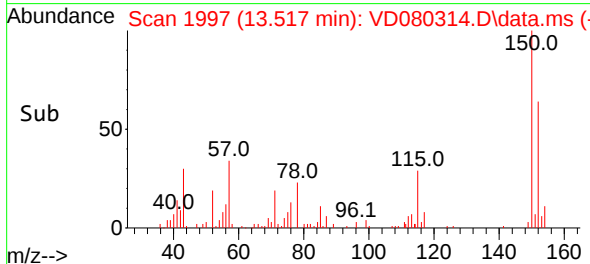
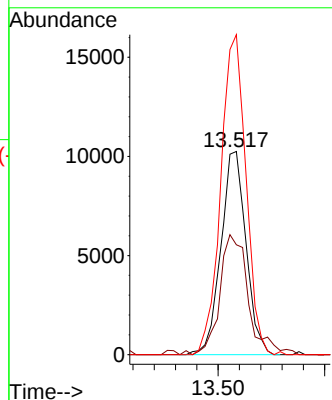
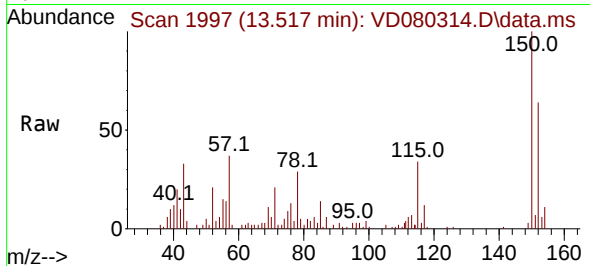




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.517 min Scan# 1997
 Delta R.T. 0.001 min
 Lab File: VD080314.D
 Acq: 13 May 2025 21:08

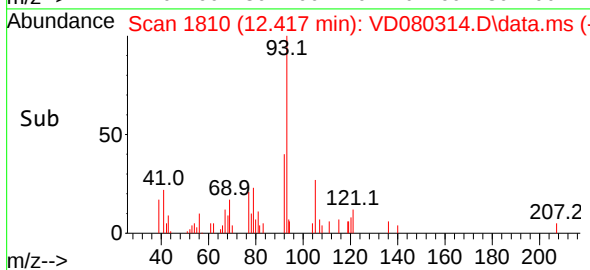
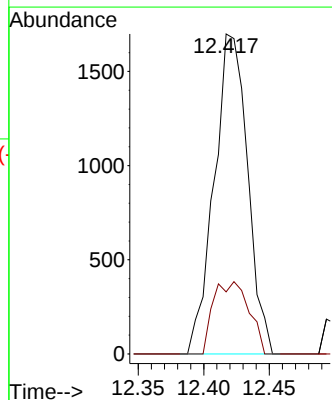
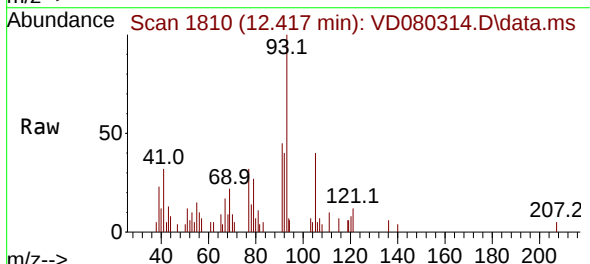
Instrument :
 MSVOA_D
 ClientSampleId :
 3836RE

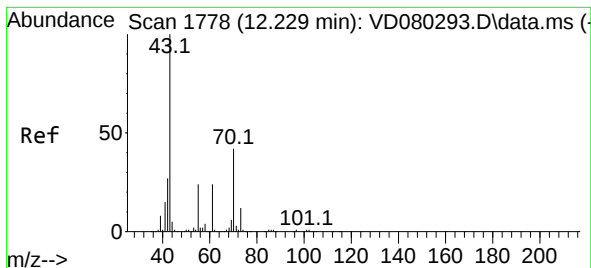
Tgt Ion:152 Resp: 16764
 Ion Ratio Lower Upper
 152 100
 115 66.9 28.9 86.8
 150 158.0 0.0 354.8



#73
 Isopropylbenzene
 Concen: 2.770 ug/l
 RT: 12.417 min Scan# 1810
 Delta R.T. -0.005 min
 Lab File: VD080314.D
 Acq: 13 May 2025 21:08

Tgt Ion:105 Resp: 3012
 Ion Ratio Lower Upper
 105 100
 120 24.0 13.3 39.9





#74

N-amy1 acetate

Concen: 7.241 ug/l

RT: 12.211 min Scan# 1

Delta R.T. -0.023 min

Lab File: VD080314.D

Acq: 13 May 2025 21:08

Instrument :

MSVOA_D

ClientSampleId :

3836RE

Tgt Ion: 43 Resp: 2260

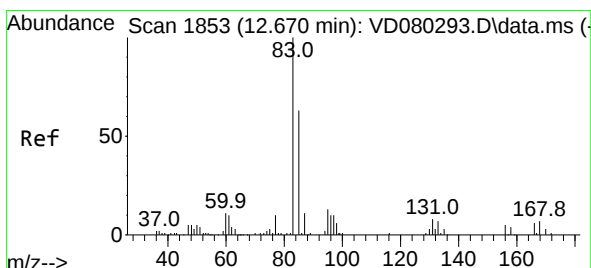
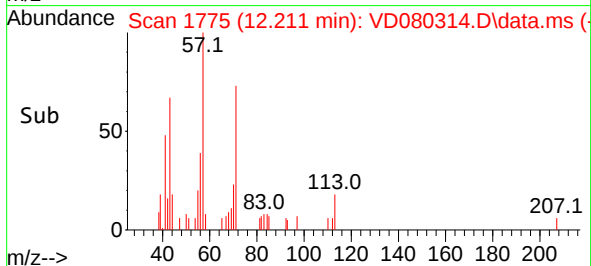
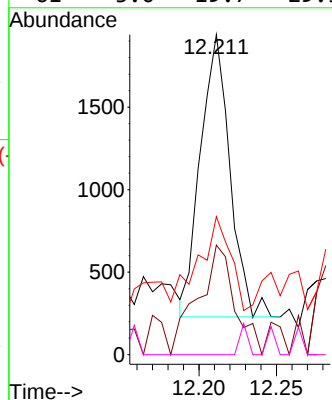
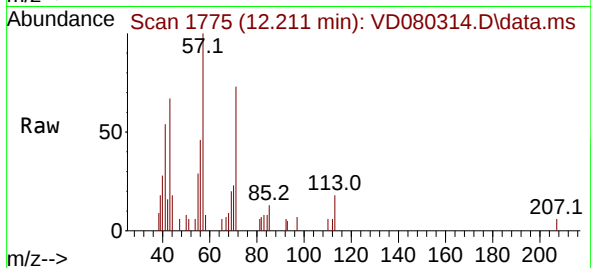
Ion Ratio Lower Upper

43 100

70 48.5 36.3 54.5

55 35.8 20.3 30.5#

61 3.0 19.7 29.5#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.121 ug/l

RT: 12.658 min Scan# 1851

Delta R.T. -0.011 min

Lab File: VD080314.D

Acq: 13 May 2025 21:08

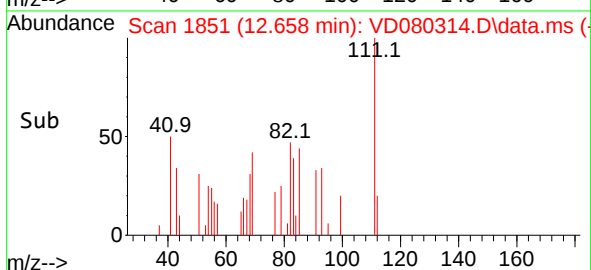
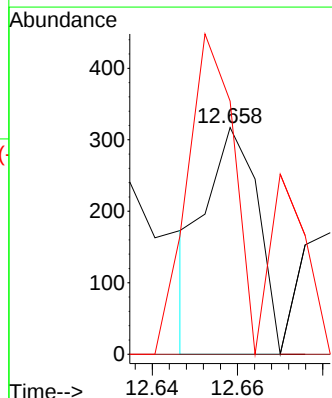
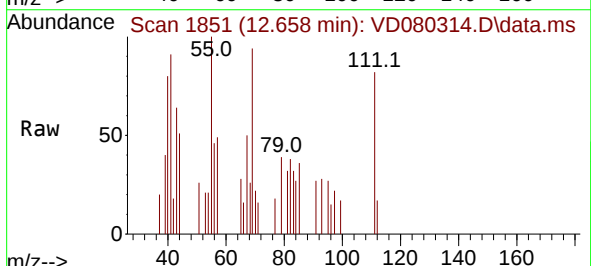
Tgt Ion: 83 Resp: 268

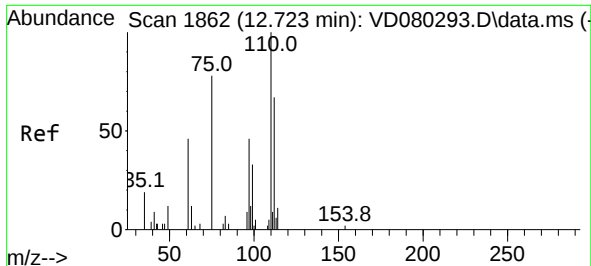
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 127.2 32.9 98.6#

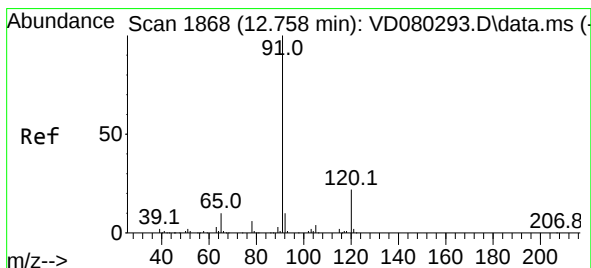
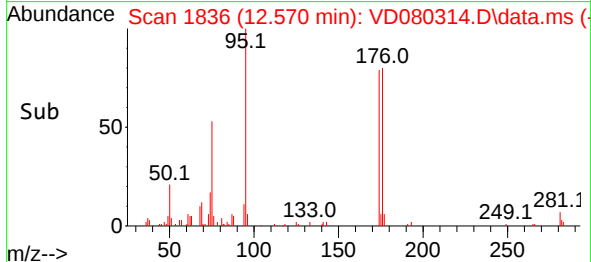
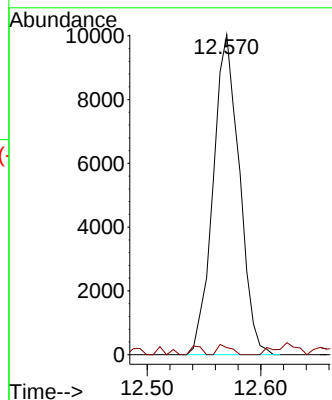
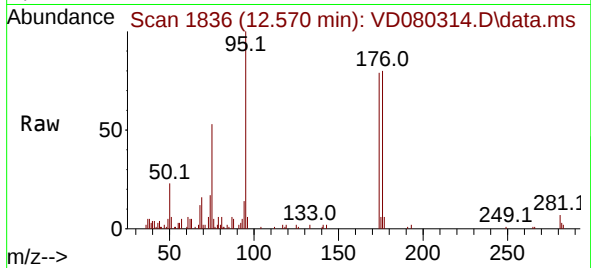




#76
1,2,3-Trichloropropane
Concen: 99.824 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. -0.152 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

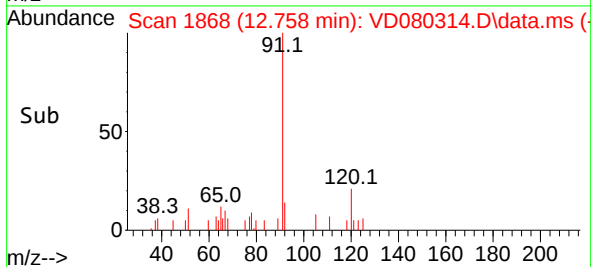
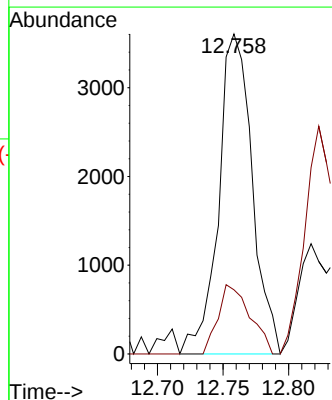
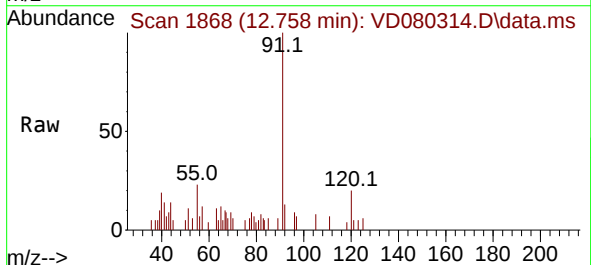
Instrument :
MSVOA_D
ClientSampleId :
3836RE

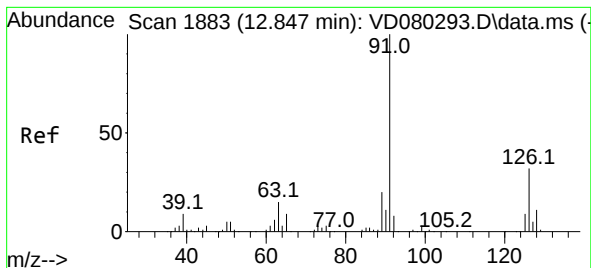
Tgt Ion: 75 Resp: 16151
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#78
n-propylbenzene
Concen: 4.710 ug/l
RT: 12.758 min Scan# 1868
Delta R.T. -0.005 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion: 91 Resp: 6427
Ion Ratio Lower Upper
91 100
120 20.6 11.2 33.5

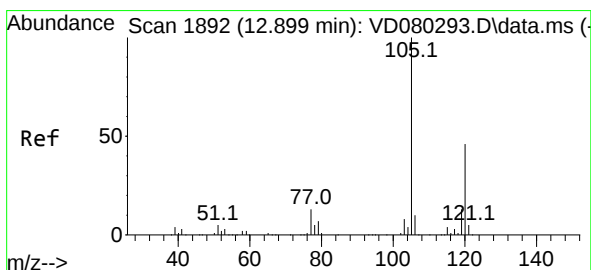
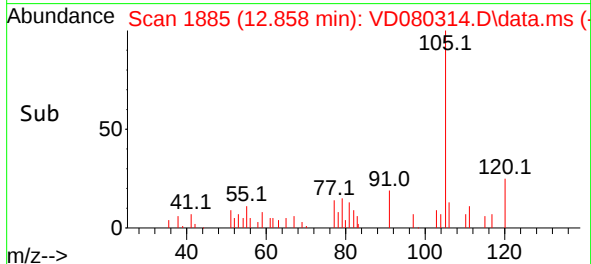
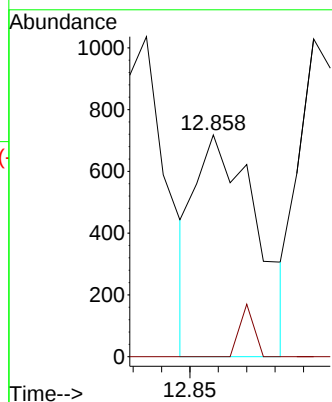
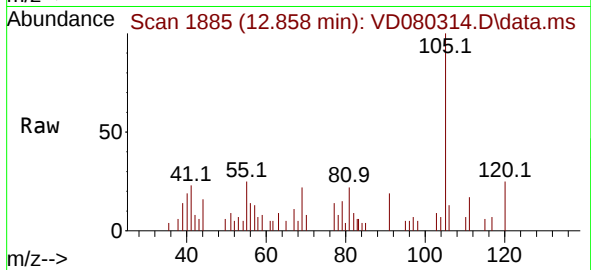




#79
2-Chlorotoluene
Concen: 1.369 ug/l
RT: 12.858 min Scan# 1885
Delta R.T. 0.012 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

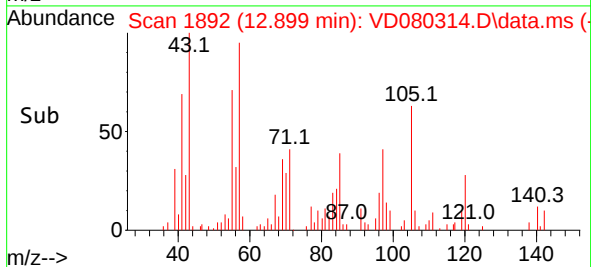
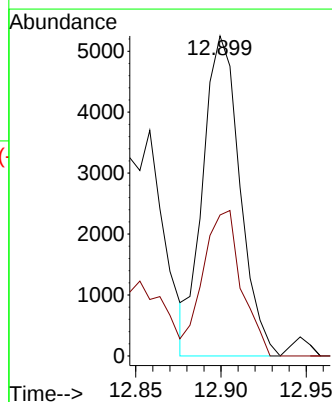
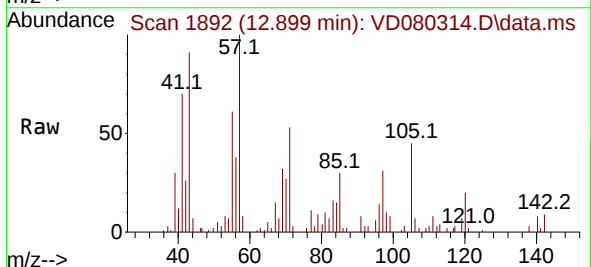
Instrument :
MSVOA_D
ClientSampleId :
3836RE

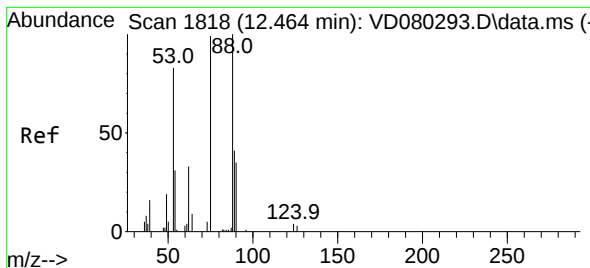
Tgt Ion: 91 Resp: 1087
Ion Ratio Lower Upper
91 100
126 5.5 17.2 51.5#



#80
1,3,5-Trimethylbenzene
Concen: 8.584 ug/l
RT: 12.899 min Scan# 1892
Delta R.T. -0.005 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion: 105 Resp: 7962
Ion Ratio Lower Upper
105 100
120 47.0 25.0 75.0

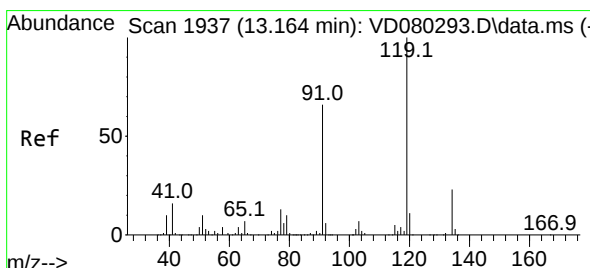
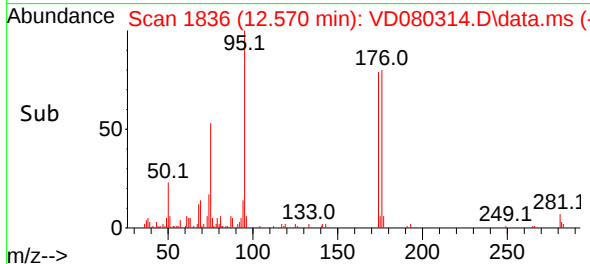
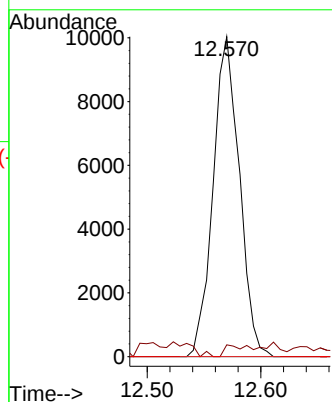
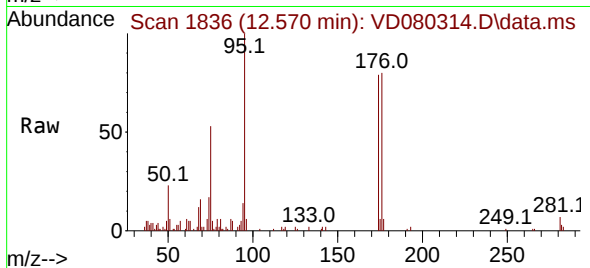




#81
 trans-1,4-Dichloro-2-butene
 Concen: 189.483 ug/l
 RT: 12.570 min Scan# 11
 Delta R.T. 0.101 min
 Lab File: VD080314.D
 Acq: 13 May 2025 21:08

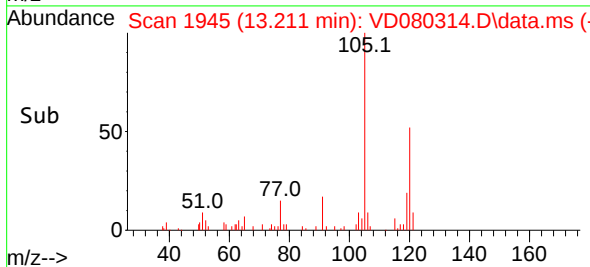
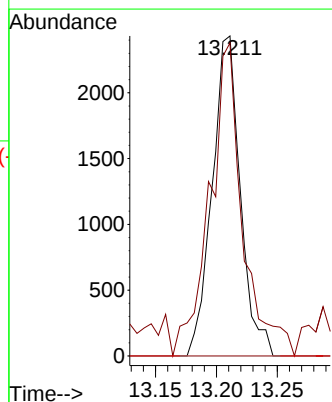
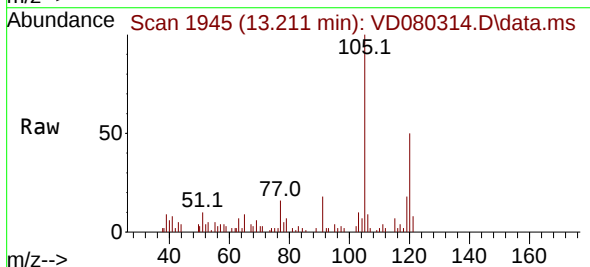
Instrument :
 MSVOA_D
 ClientSampleId :
 3836RE

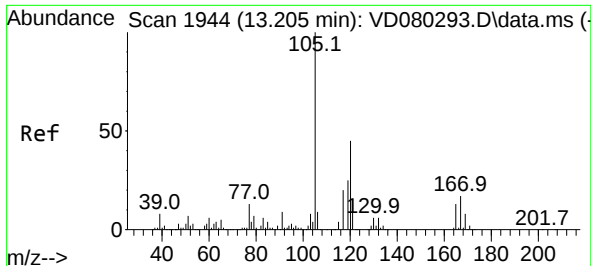
Tgt Ion: 75 Resp: 16151
 Ion Ratio Lower Upper
 75 100
 53 2.1 68.7 103.1#
 89 0.0 36.1 54.1#



#83
 tert-Butylbenzene
 Concen: 5.065 ug/l
 RT: 13.211 min Scan# 1945
 Delta R.T. 0.048 min
 Lab File: VD080314.D
 Acq: 13 May 2025 21:08

Tgt Ion: 119 Resp: 3920
 Ion Ratio Lower Upper
 119 100
 91 113.5 33.3 99.9#
 134 0.0 13.5 40.5#

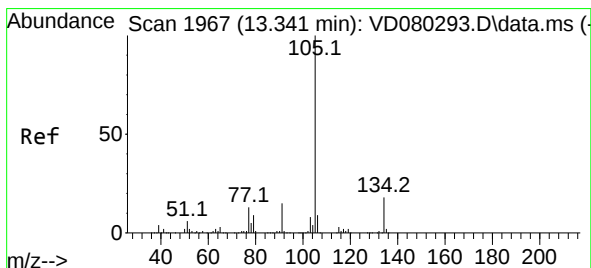
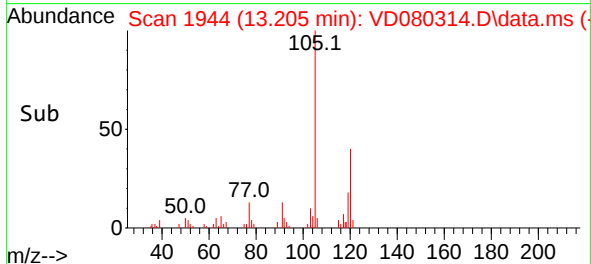
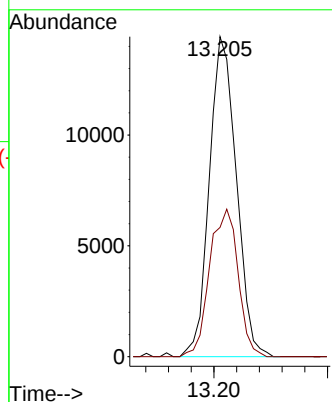
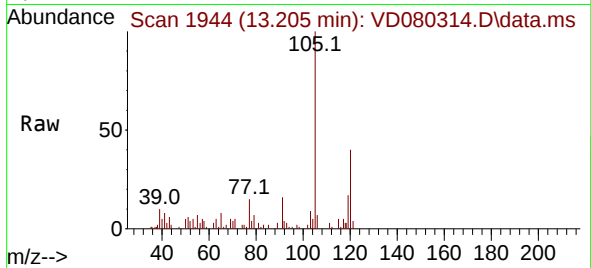




#84
1,2,4-Trimethylbenzene
Concen: 25.124 ug/l
RT: 13.205 min Scan# 1944
Delta R.T. -0.005 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

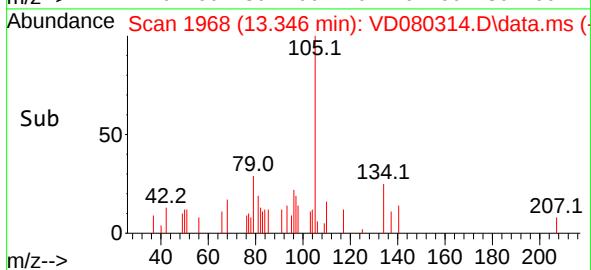
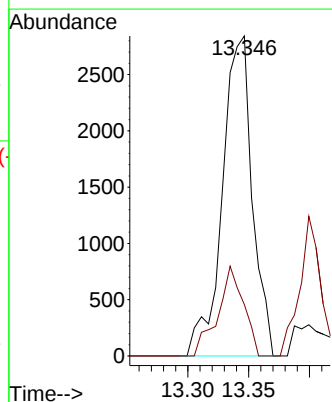
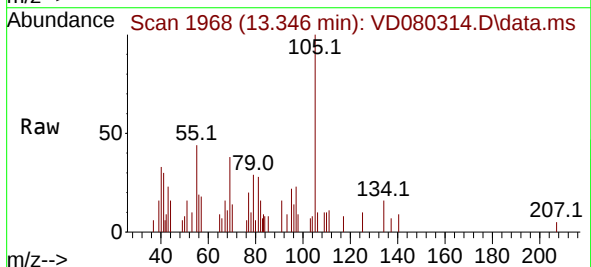
Instrument :
MSVOA_D
ClientSampleId :
3836RE

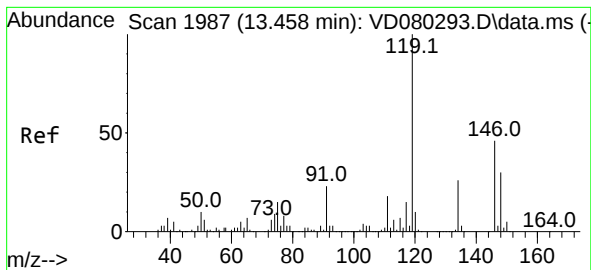
Tgt Ion:105 Resp: 23842
Ion Ratio Lower Upper
105 100
120 48.6 22.8 68.4



#85
sec-Butylbenzene
Concen: 4.089 ug/l
RT: 13.346 min Scan# 1968
Delta R.T. 0.006 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Tgt Ion:105 Resp: 4880
Ion Ratio Lower Upper
105 100
134 24.1 9.8 29.3





#86

p-Isopropyltoluene

Concen: 5.002 ug/l

RT: 13.399 min Scan# 1987

Delta R.T. -0.058 min

Lab File: VD080314.D

Acq: 13 May 2025 21:08

Instrument :

MSVOA_D

ClientSampleId :

3836RE

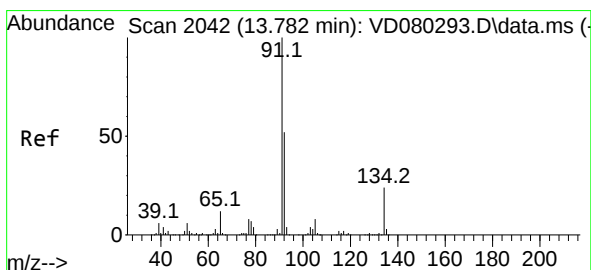
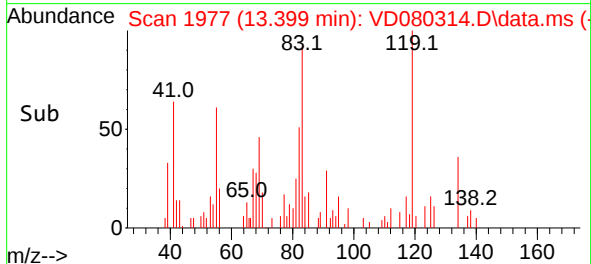
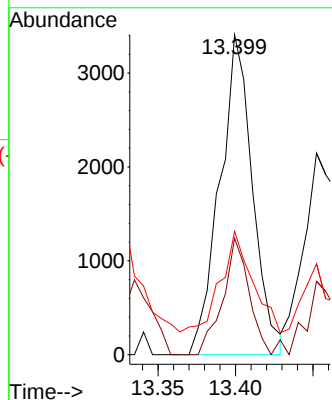
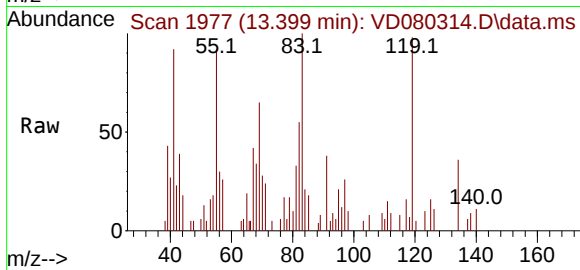
Tgt Ion:119 Resp: 5018

Ion Ratio Lower Upper

119 100

134 29.0 13.1 39.1

91 30.2 12.2 36.4



#89

n-Butylbenzene

Concen: 10.005 ug/l

RT: 13.782 min Scan# 2042

Delta R.T. -0.005 min

Lab File: VD080314.D

Acq: 13 May 2025 21:08

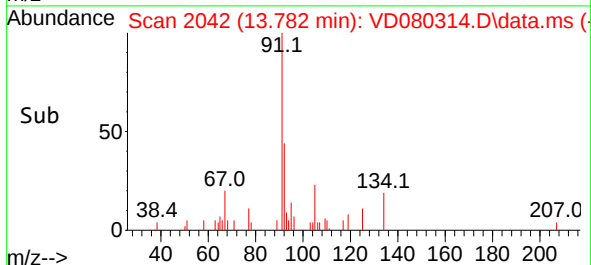
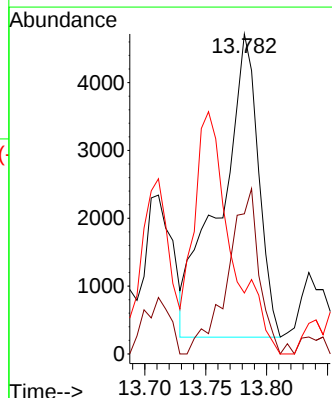
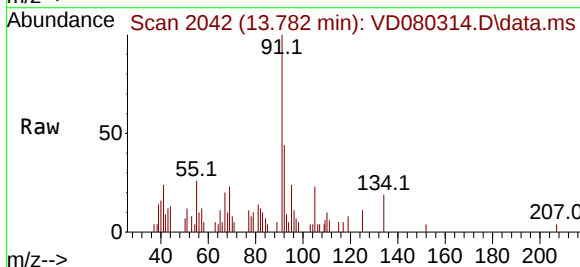
Tgt Ion: 91 Resp: 9743

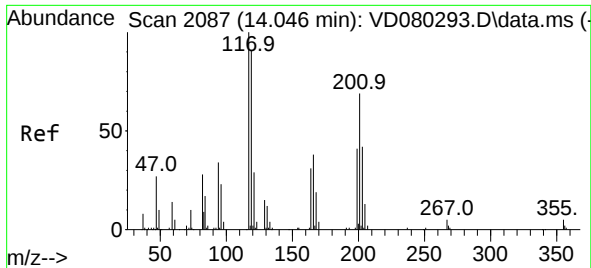
Ion Ratio Lower Upper

91 100

92 45.0 26.3 78.9

134 0.0 12.3 36.8#

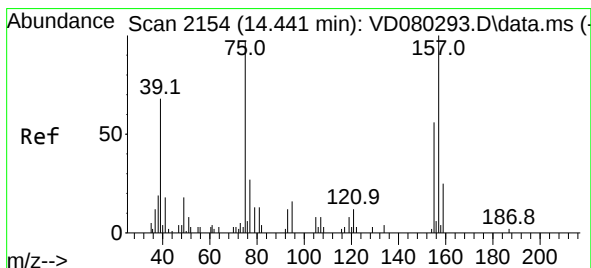
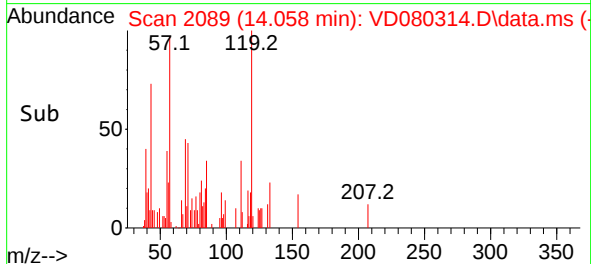
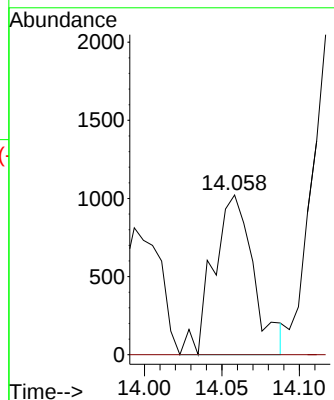
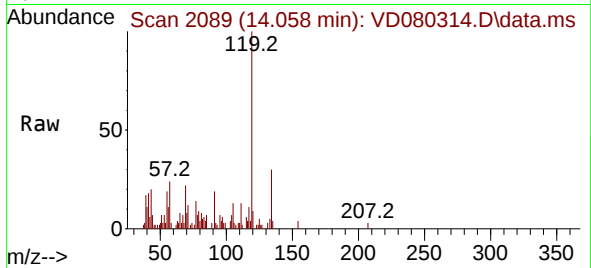




#90
Hexachloroethane
Concen: 8.317 ug/l
RT: 14.058 min Scan# 2089
Delta R.T. 0.007 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

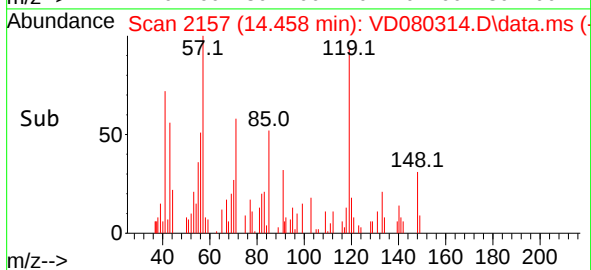
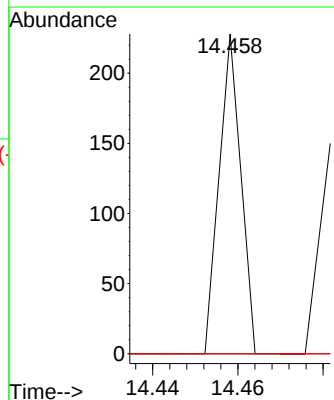
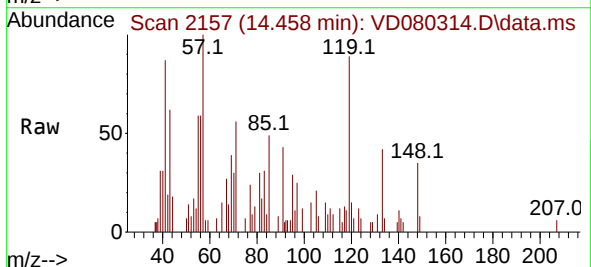
Instrument :
MSVOA_D
ClientSampleId :
3836RE

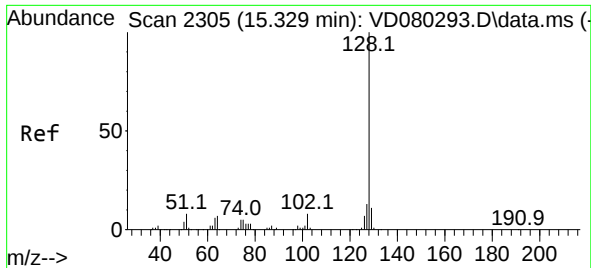
Tgt Ion:117 Resp: 1846
Ion Ratio Lower Upper
117 100
201 0.0 37.5 112.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.099 ug/l
RT: 14.458 min Scan# 2157
Delta R.T. 0.018 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

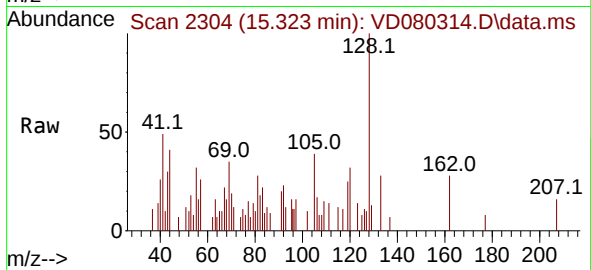
Tgt Ion: 75 Resp: 80
Ion Ratio Lower Upper
75 100
155 0.0 40.6 122.0#
157 0.0 53.3 159.9#





#95
Naphthalene
Concen: 7.086 ug/l
RT: 15.323 min Scan# 21
Delta R.T. -0.005 min
Lab File: VD080314.D
Acq: 13 May 2025 21:08

Instrument :
MSVOA_D
ClientSampleId :
3836RE



Tgt Ion:128 Resp: 4276
Ion Ratio Lower Upper
128 100
127 9.9 11.8 17.8#
129 13.0 8.3 12.5#

