

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051425\
 Data File : VD080332.D
 Acq On : 14 May 2025 19:43
 Operator : RP/MD
 Sample : Q2010-03
 Misc : 7.09G/10ml/MSVOA_D/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-14

Quant Time: May 15 03:39:32 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	73306	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.782	114	183730	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	170522	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	67737	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	63194	66.662	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 133.320%	
35) Dibromofluoromethane	7.806	113	70279	57.071	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.140%	
50) Toluene-d8	10.270	98	240789	49.627	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.260%	
62) 4-Bromofluorobenzene	12.570	95	62932	40.410	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 80.820%	

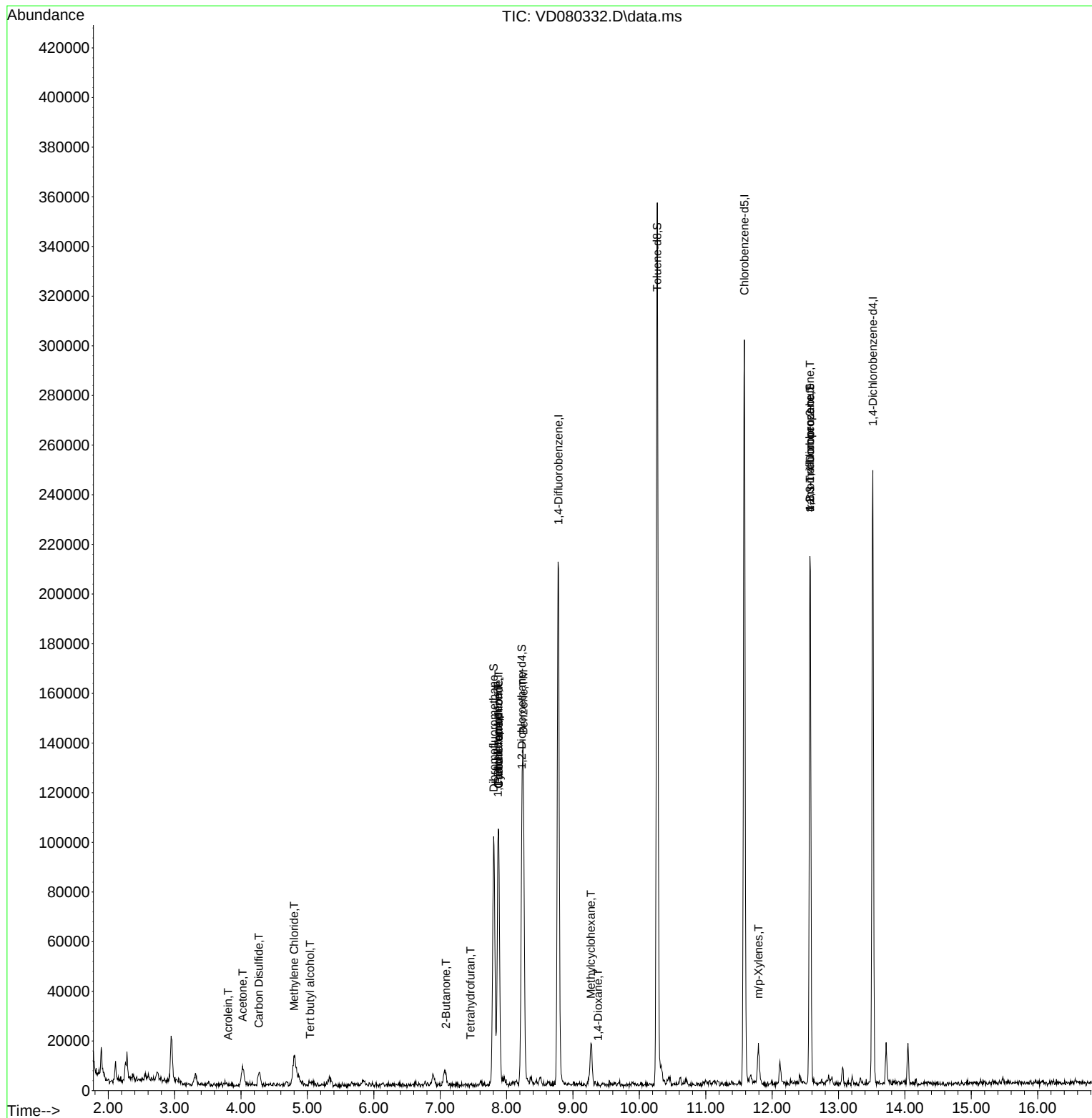
Target Compounds				Qvalue		
3) Chloromethane	2.147	50	208	Below Cal	#	39
11) Tert butyl alcohol	5.041	59	1599	27.797	ug/l #	82
13) Acrolein	3.806	56	227	2.243	ug/l #	78
16) Acetone	4.023	43	11912	69.382	ug/l	100
17) Carbon Disulfide	4.271	76	10946	3.551	ug/l	96
20) Methylene Chloride	4.800	84	8269	4.701	ug/l	95
25) 2-Butanone	7.088	43	1889	7.242	ug/l	97
29) Tetrahydrofuran	7.459	42	265	1.558	ug/l #	32
31) Cyclohexane	7.882	56	6663	4.326	ug/l #	80
36) 1,1-Dichloropropene	7.870	75	6983	3.794	ug/l #	43
38) Carbon Tetrachloride	7.882	117	7225	3.764	ug/l #	21
39) Methylcyclohexane	9.270	83	5691	2.665	ug/l	93
40) Benzene	8.253	78	100122	17.363	ug/l	100
49) 1,4-Dioxane	9.376	88	53	5.536	ug/l #	21
68) m/p-Xylenes	11.794	106	4426	1.772	ug/l	99
76) 1,2,3-Trichloropropane	12.570	75	32780	50.141	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	32780	95.177	ug/l #	16

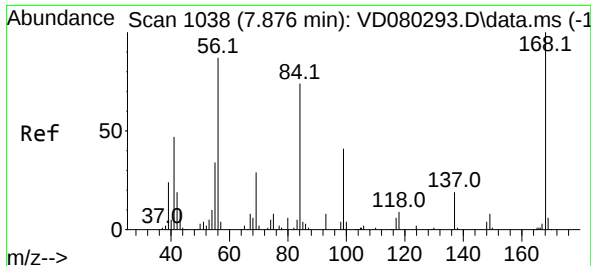
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 15 03:39:32 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

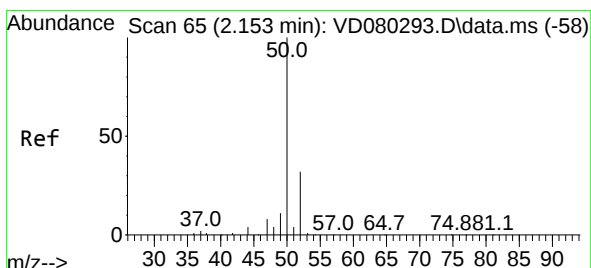
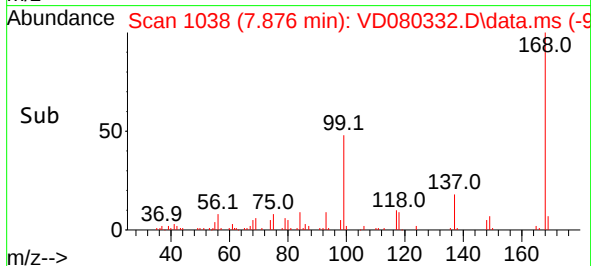
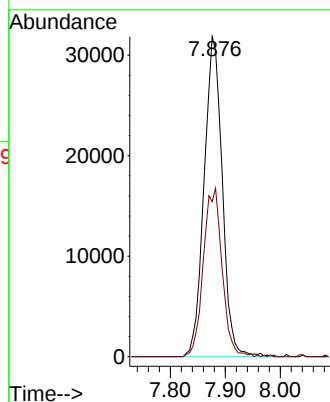
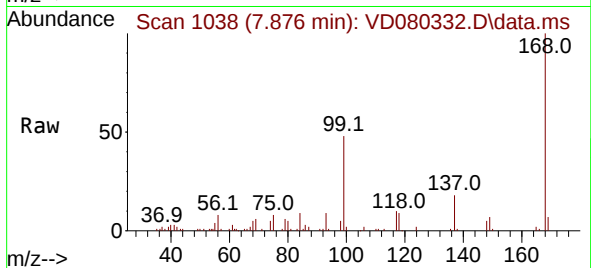




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 1038
Delta R.T. 0.001 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

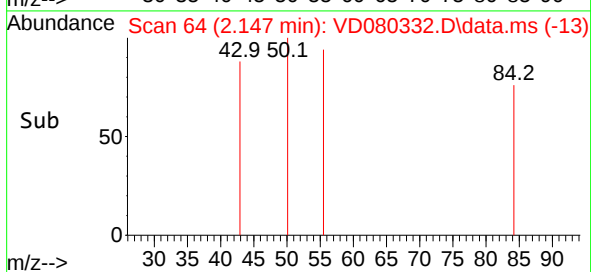
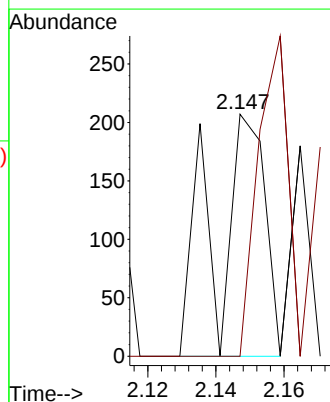
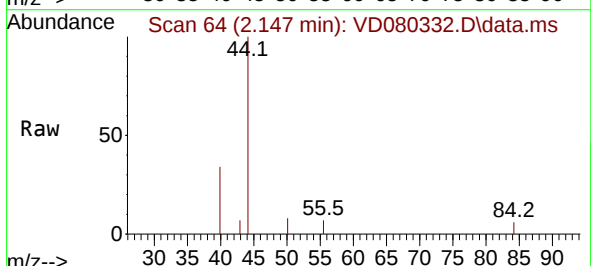
Instrument :
MSVOA_D
ClientSampleId :
TP-14

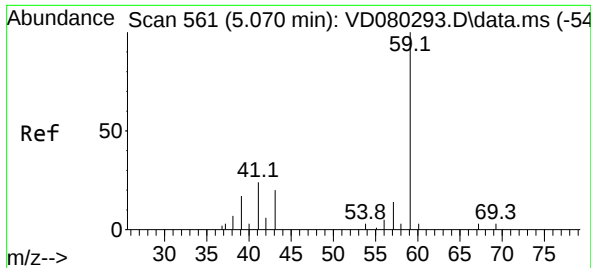
Tgt Ion:168 Resp: 73306
Ion Ratio Lower Upper
168 100
99 48.4 46.0 69.0



#3
Chloromethane
Concen: Below Cal
RT: 2.147 min Scan# 64
Delta R.T. 0.001 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

Tgt Ion: 50 Resp: 208
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#

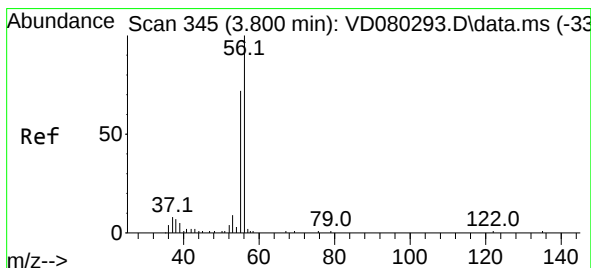
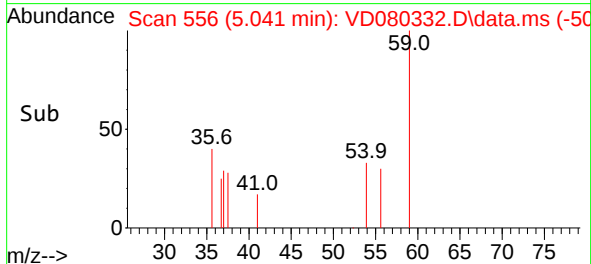
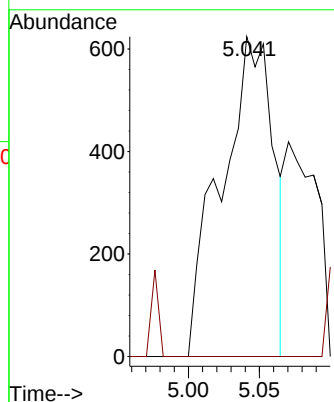
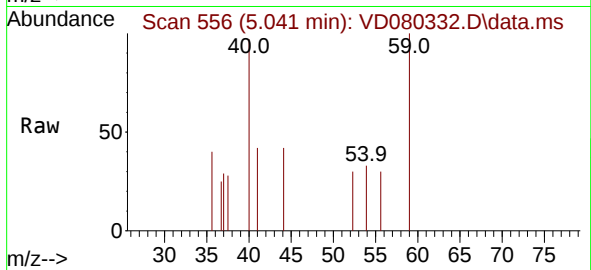




#11
Tert butyl alcohol
Concen: 27.797 ug/l
RT: 5.041 min Scan# 51
Delta R.T. -0.017 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

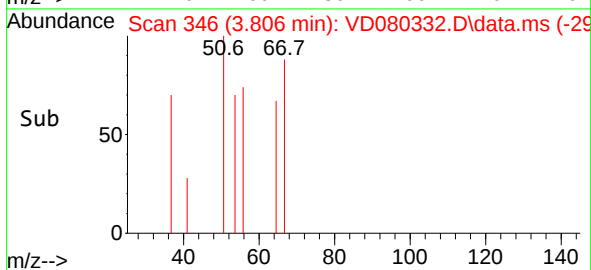
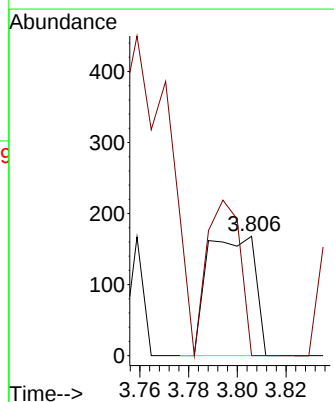
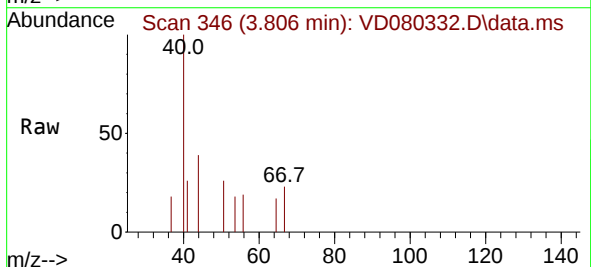
Instrument :
MSVOA_D
ClientSampleId :
TP-14

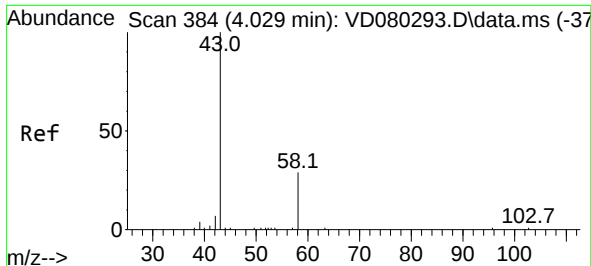
Tgt Ion: 59 Resp: 1599
Ion Ratio Lower Upper
59 100
57 0.0 4.8 7.2#



#13
Acrolein
Concen: 2.243 ug/l
RT: 3.806 min Scan# 346
Delta R.T. 0.013 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

Tgt Ion: 56 Resp: 227
Ion Ratio Lower Upper
56 100
55 91.2 58.2 87.2#





#16

Acetone

Concen: 69.382 ug/l

RT: 4.023 min Scan# 384

Delta R.T. 0.000 min

Lab File: VD080332.D

Acq: 14 May 2025 19:43

Instrument :

MSVOA_D

ClientSampleId :

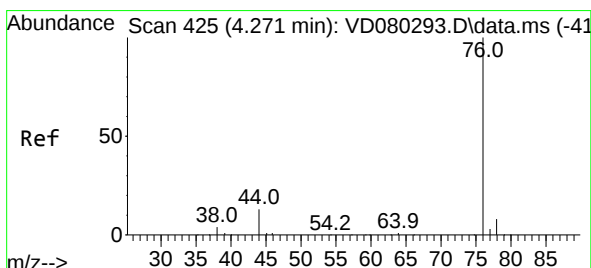
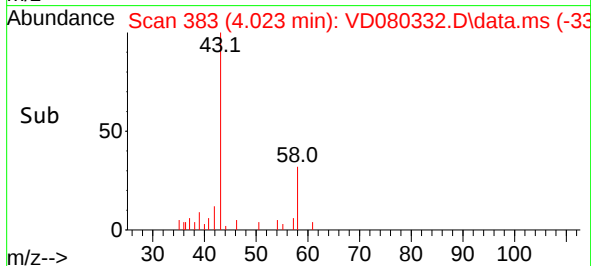
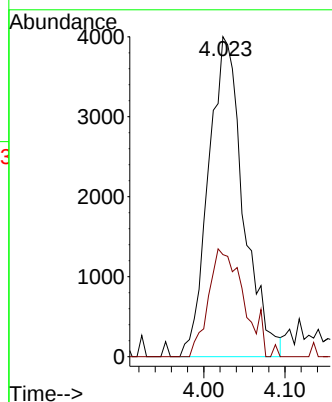
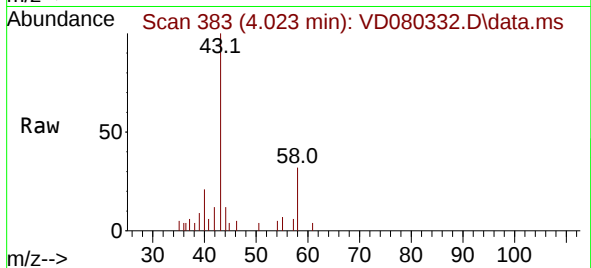
TP-14

Tgt Ion: 43 Resp: 11912

Ion Ratio Lower Upper

43 100

58 31.9 25.4 38.2



#17

Carbon Disulfide

Concen: 3.551 ug/l

RT: 4.271 min Scan# 425

Delta R.T. 0.001 min

Lab File: VD080332.D

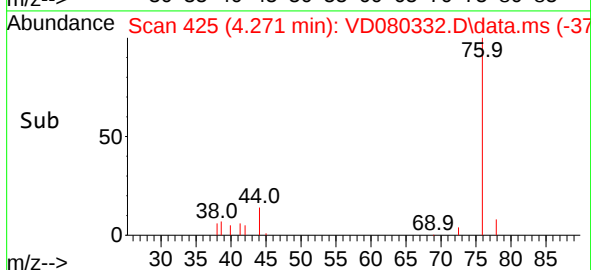
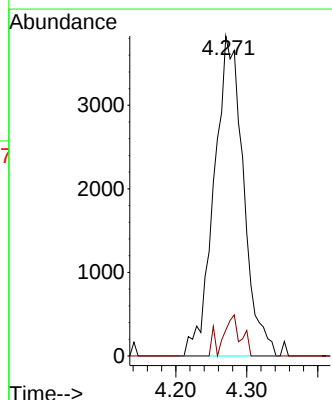
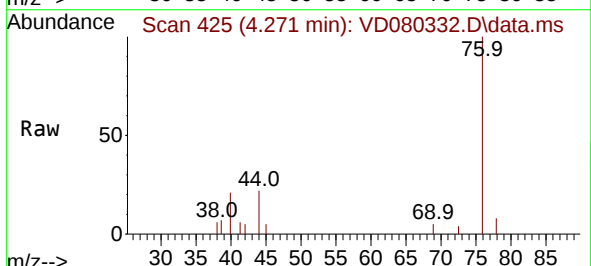
Acq: 14 May 2025 19:43

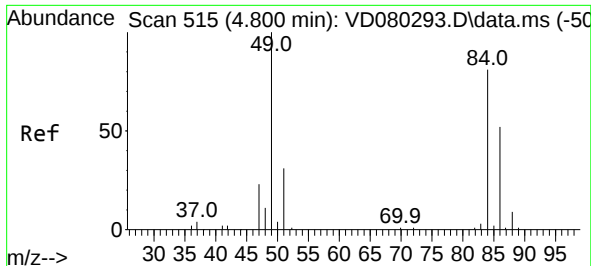
Tgt Ion: 76 Resp: 10946

Ion Ratio Lower Upper

76 100

78 8.1 7.5 11.3

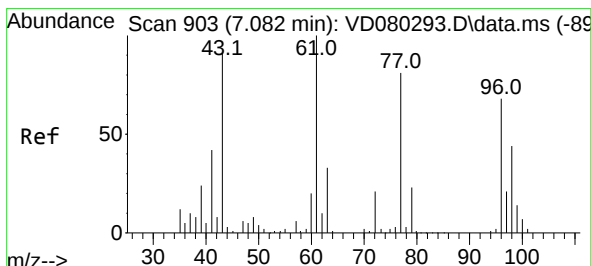
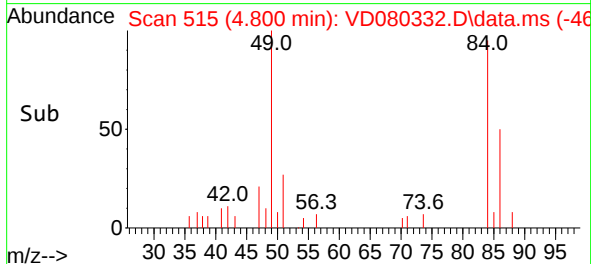
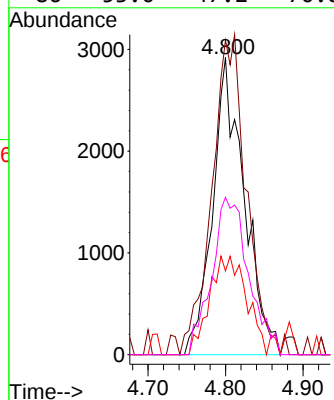
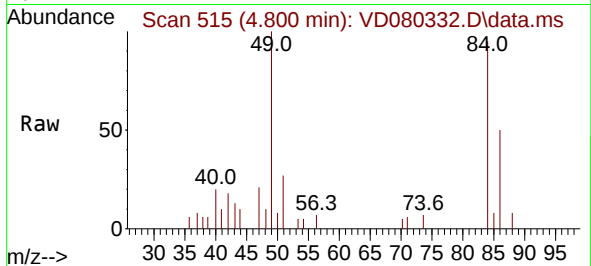




#20
Methylene Chloride
Concen: 4.701 ug/l
RT: 4.800 min Scan# 515
Delta R.T. -0.005 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

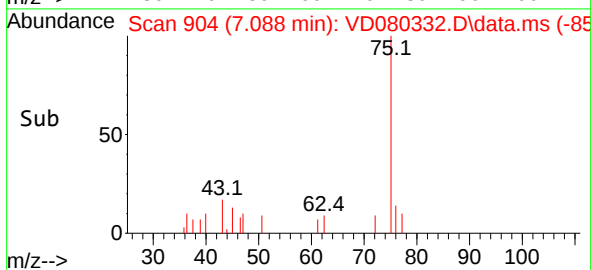
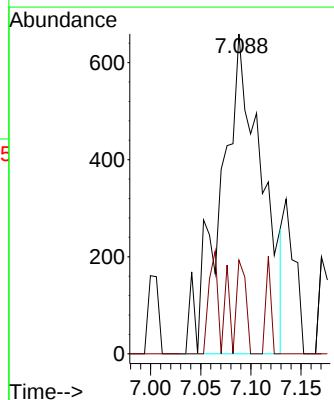
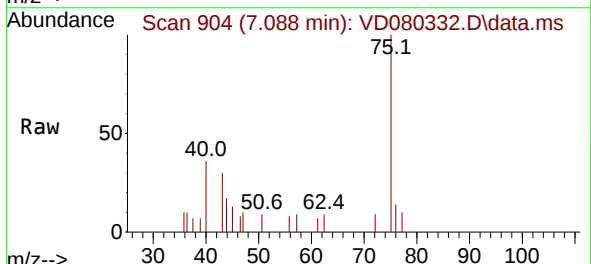
Instrument :
MSVOA_D
ClientSampleId :
TP-14

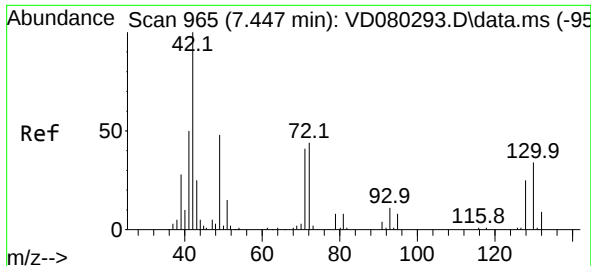
Tgt Ion: 84	Resp:	8269	
Ion	Ratio	Lower	Upper
84	100		
49	105.8	86.5	129.7
51	28.1	26.9	40.3
86	53.0	47.2	70.8



#25
2-Butanone
Concen: 7.242 ug/l
RT: 7.088 min Scan# 904
Delta R.T. 0.001 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

Tgt Ion: 43	Resp:	1889	
Ion	Ratio	Lower	Upper
43	100		
72	29.3	22.3	33.5





#29

Tetrahydrofuran

Concen: 1.558 ug/l

RT: 7.459 min Scan# 9

Delta R.T. 0.013 min

Lab File: VD080332.D

Acq: 14 May 2025 19:43

Instrument :

MSVOA_D

ClientSampleId :

TP-14

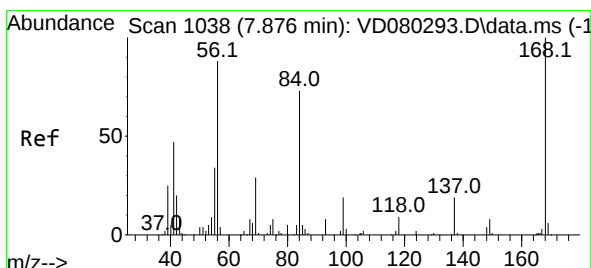
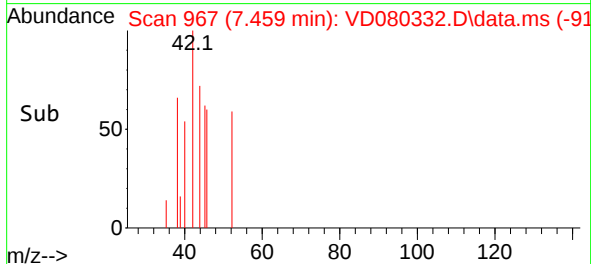
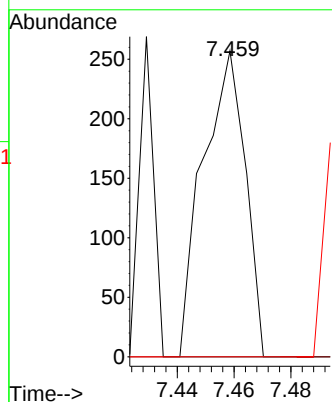
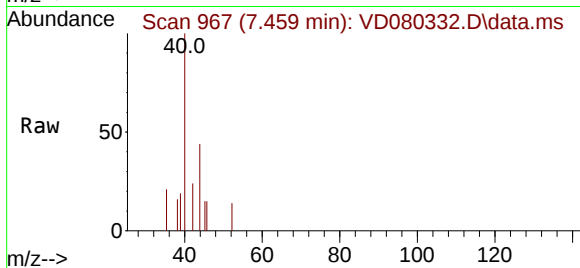
Tgt Ion: 42 Resp: 265

Ion Ratio Lower Upper

42 100

72 0.0 36.7 55.1#

71 0.0 34.4 51.6#



#31

Cyclohexane

Concen: 4.326 ug/l

RT: 7.882 min Scan# 1039

Delta R.T. 0.001 min

Lab File: VD080332.D

Acq: 14 May 2025 19:43

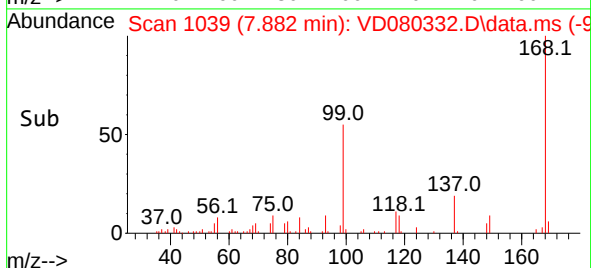
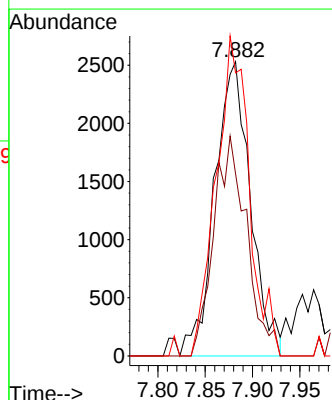
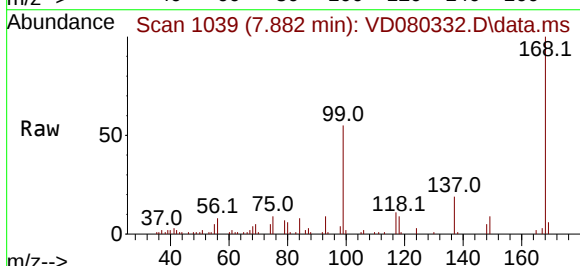
Tgt Ion: 56 Resp: 6663

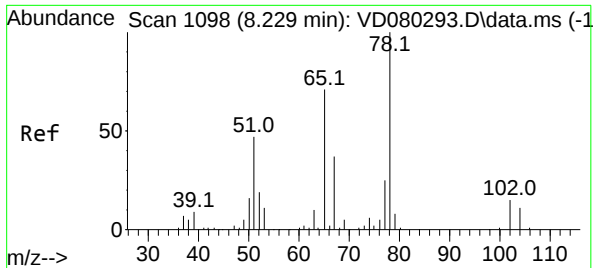
Ion Ratio Lower Upper

56 100

69 61.9 27.3 40.9#

84 96.2 70.2 105.4

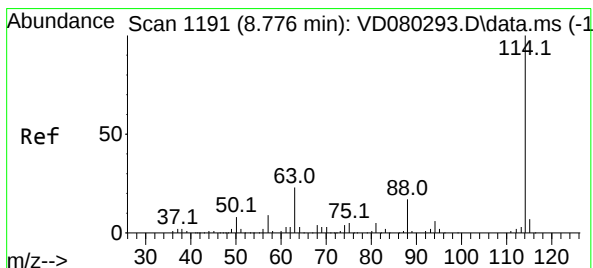
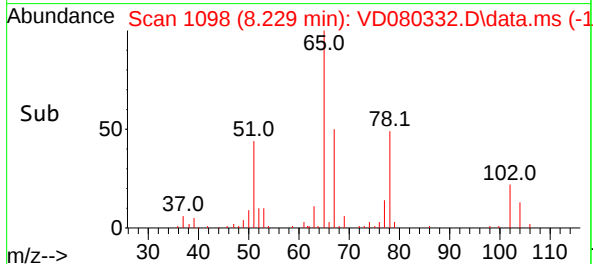
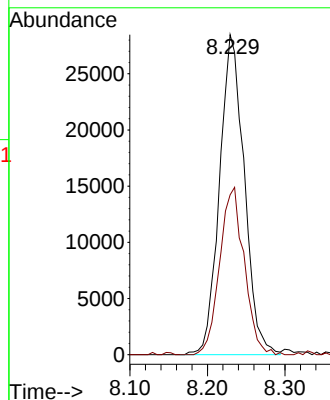
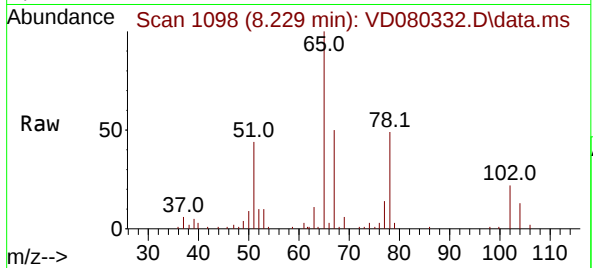




#33
1,2-Dichloroethane-d4
Concen: 66.662 ug/l
RT: 8.229 min Scan# 1098
Delta R.T. 0.001 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

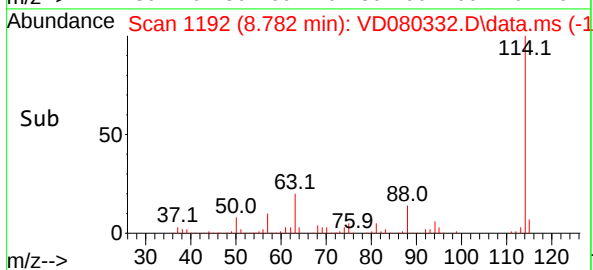
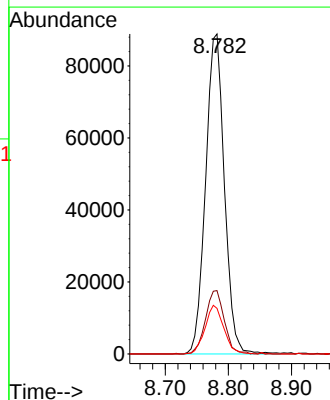
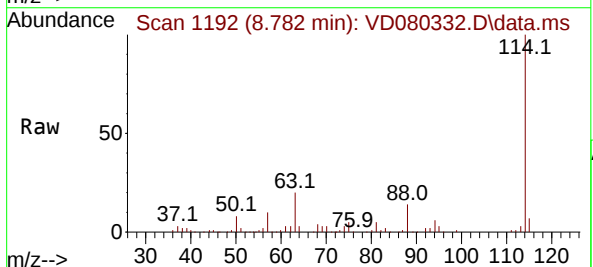
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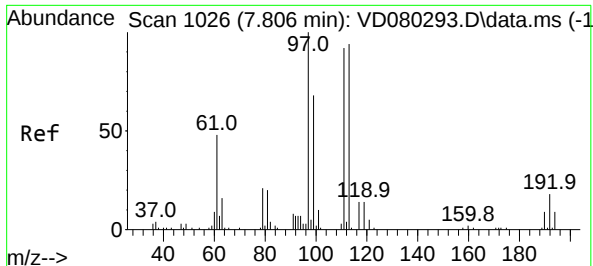
Tgt Ion: 65 Resp: 63194
Ion Ratio Lower Upper
65 100
67 51.9 0.0 109.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.782 min Scan# 1192
Delta R.T. 0.007 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

Tgt Ion: 114 Resp: 183730
Ion Ratio Lower Upper
114 100
63 19.8 0.0 38.8
88 14.3 0.0 30.6

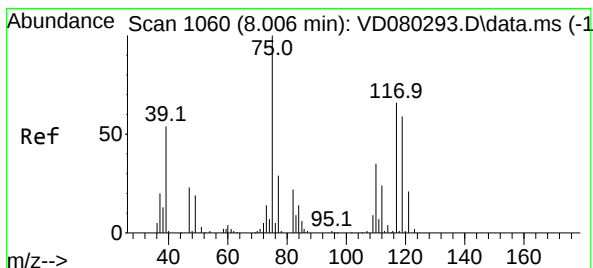
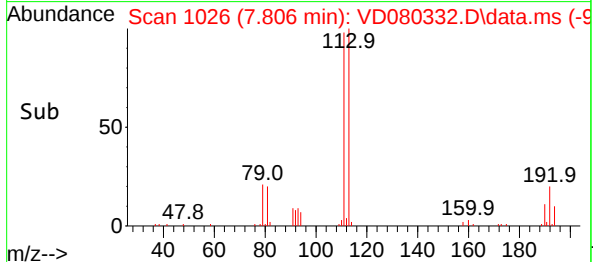
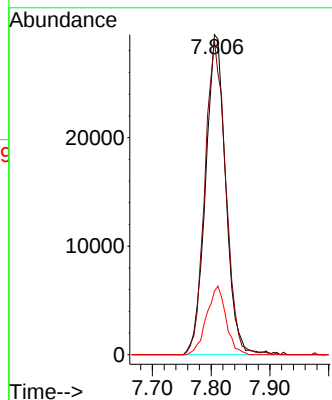
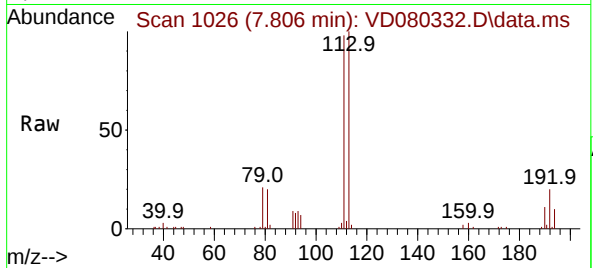




#35
Dibromofluoromethane
Concen: 57.071 ug/l
RT: 7.806 min Scan# 1037
Delta R.T. 0.001 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

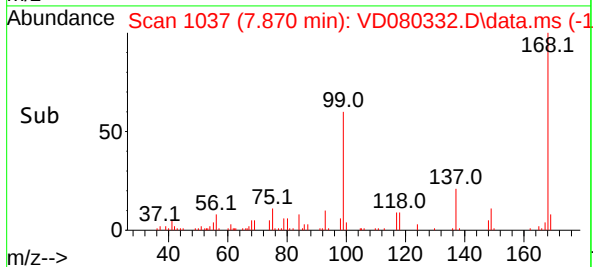
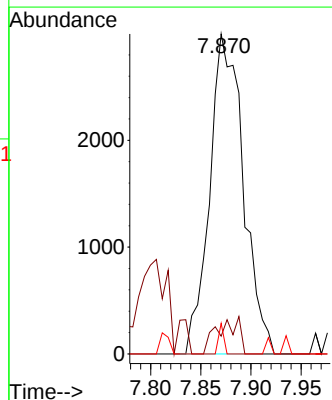
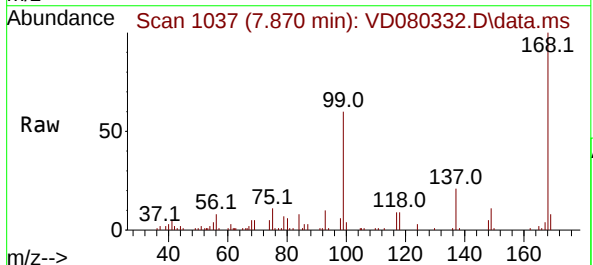
Instrument :
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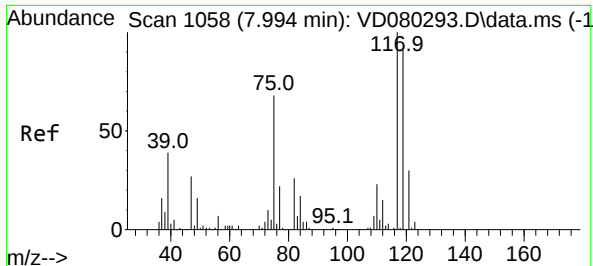
Tgt Ion:113 Resp: 70279
Ion Ratio Lower Upper
113 100
111 101.2 82.5 123.7
192 20.6 16.6 25.0



#36
1,1-Dichloropropene
Concen: 3.794 ug/l
RT: 7.870 min Scan# 1037
Delta R.T. -0.135 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

Tgt Ion: 75 Resp: 6983
Ion Ratio Lower Upper
75 100
110 3.1 18.4 55.0#
77 0.0 25.6 38.4#

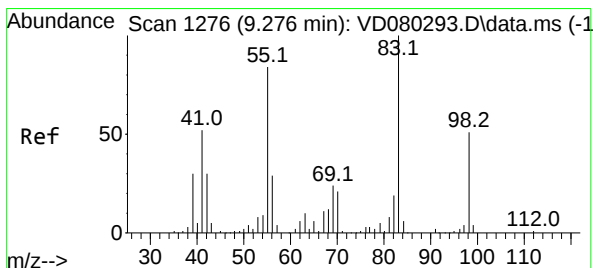
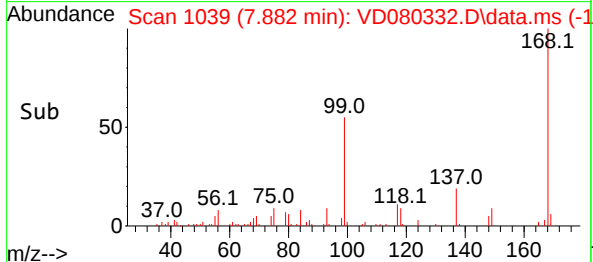
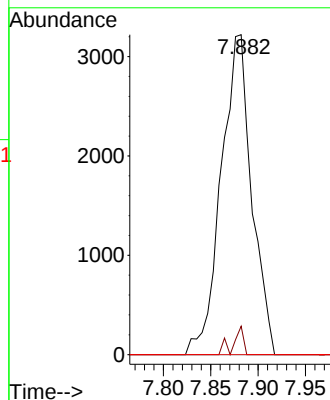
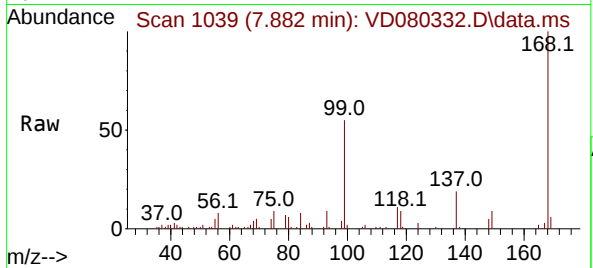




#38
Carbon Tetrachloride
Concen: 3.764 ug/l
RT: 7.882 min Scan# 1058
Delta R.T. -0.105 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

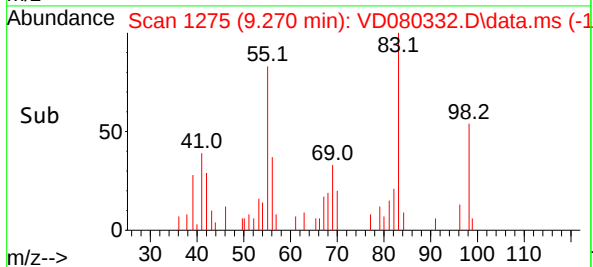
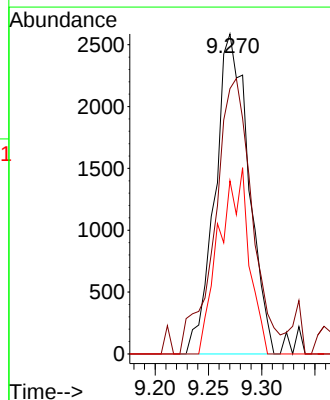
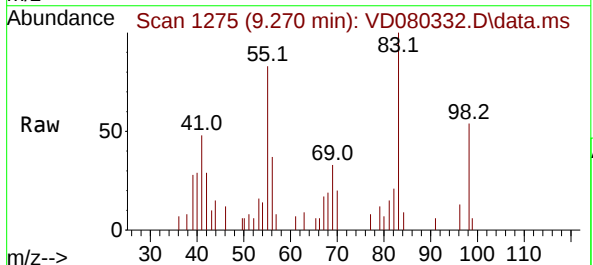
Instrument :
MSVOA_D
ClientSampleId :
TP-14

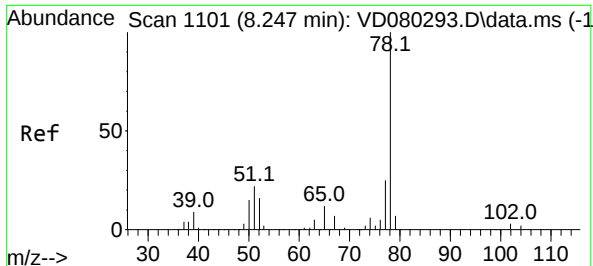
Tgt Ion:117 Resp: 7225
Ion Ratio Lower Upper
117 100
119 8.9 73.4 110.0#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 2.665 ug/l
RT: 9.270 min Scan# 1275
Delta R.T. -0.005 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

Tgt Ion: 83 Resp: 5691
Ion Ratio Lower Upper
83 100
55 82.9 62.0 93.0
98 54.1 38.7 58.1





#40

Benzene

Concen: 17.363 ug/l

RT: 8.253 min Scan# 1101

Delta R.T. 0.001 min

Lab File: VD080332.D

Acq: 14 May 2025 19:43

Instrument :

MSVOA_D

ClientSampleId :

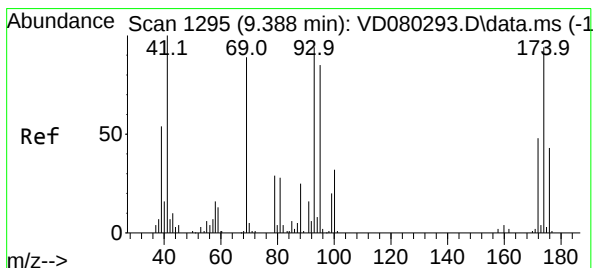
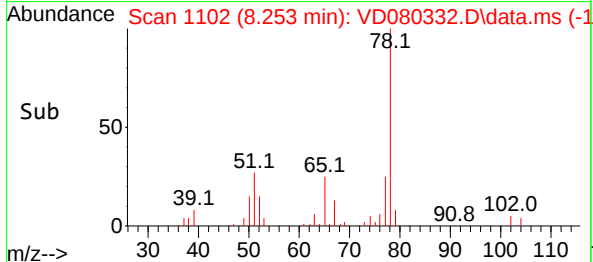
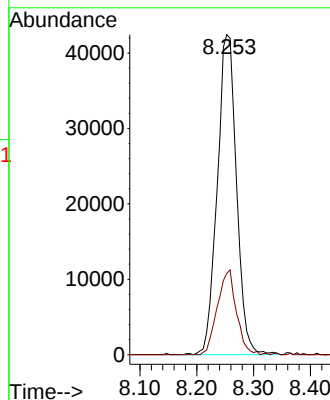
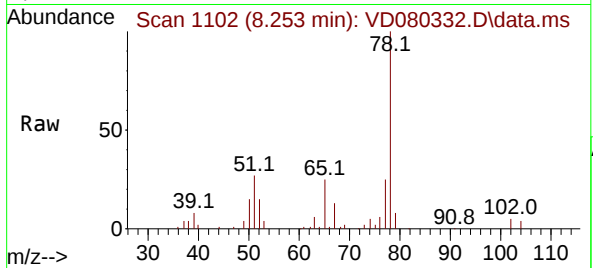
TP-14

Tgt Ion: 78 Resp: 100122

Ion Ratio Lower Upper

78 100

77 25.4 20.2 30.4



#49

1,4-Dioxane

Concen: 5.536 ug/l

RT: 9.376 min Scan# 1293

Delta R.T. -0.011 min

Lab File: VD080332.D

Acq: 14 May 2025 19:43

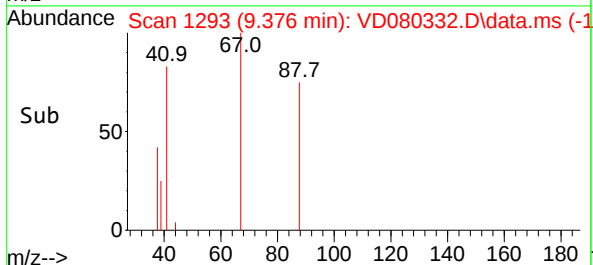
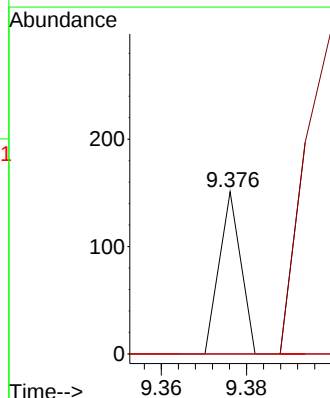
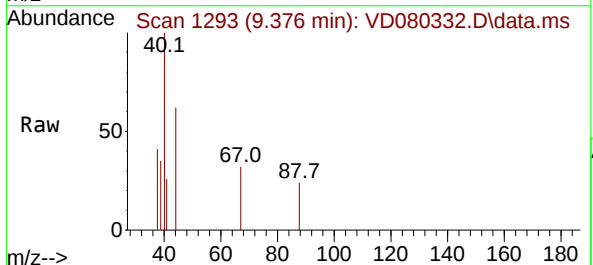
Tgt Ion: 88 Resp: 53

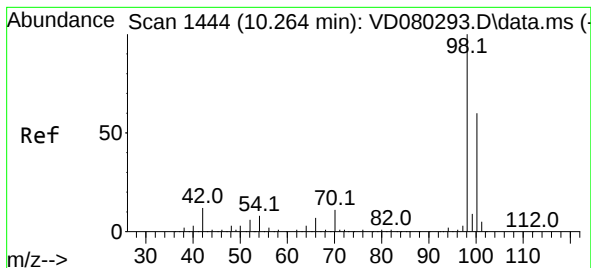
Ion Ratio Lower Upper

88 100

43 0.0 29.1 43.7#

58 0.0 59.9 89.9#





#50

Toluene-d8

Concen: 49.627 ug/l

RT: 10.270 min Scan# 1444

Delta R.T. 0.001 min

Lab File: VD080332.D

Acq: 14 May 2025 19:43

Instrument :

MSVOA_D

ClientSampleId :

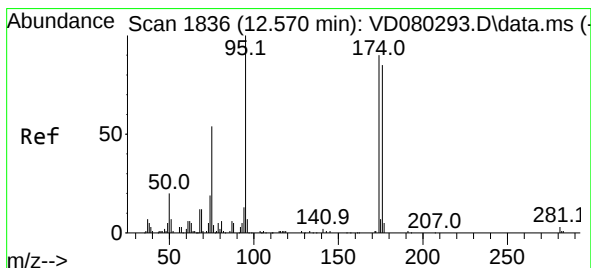
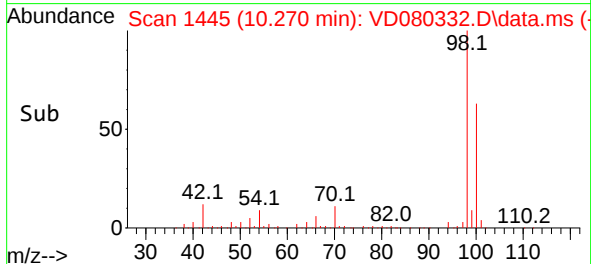
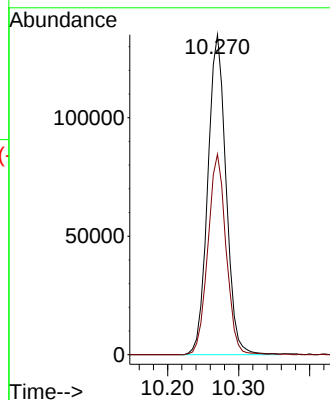
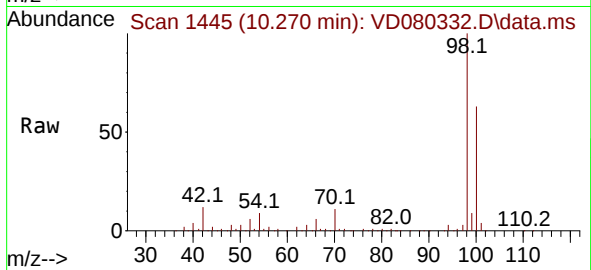
TP-14

Tgt Ion: 98 Resp: 240789

Ion Ratio Lower Upper

98 100

100 62.5 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 40.410 ug/l

RT: 12.570 min Scan# 1836

Delta R.T. 0.001 min

Lab File: VD080332.D

Acq: 14 May 2025 19:43

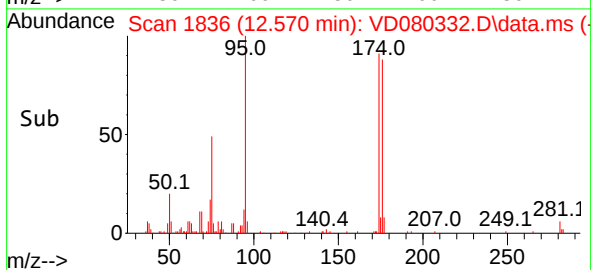
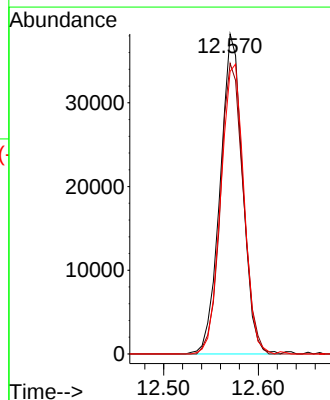
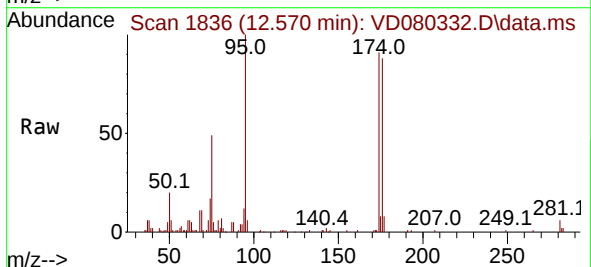
Tgt Ion: 95 Resp: 62932

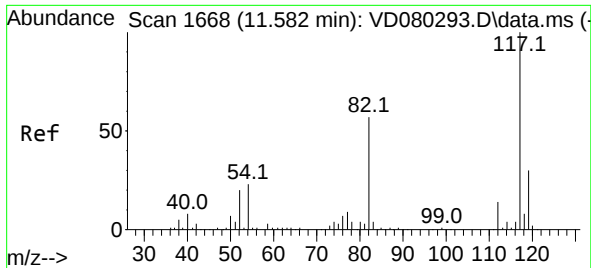
Ion Ratio Lower Upper

95 100

174 92.1 0.0 173.4

176 93.1 0.0 166.6

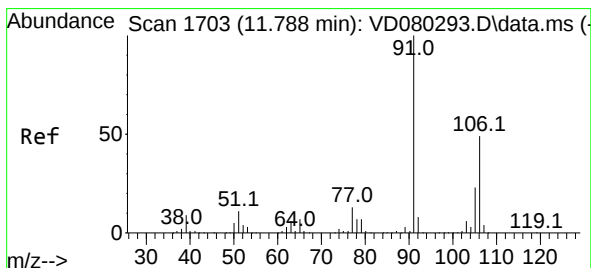
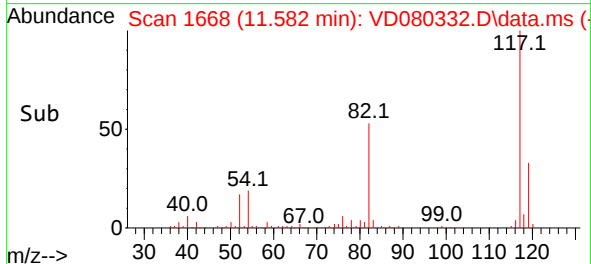
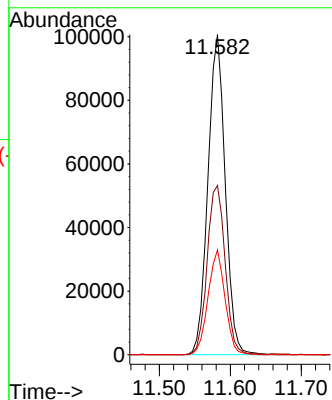
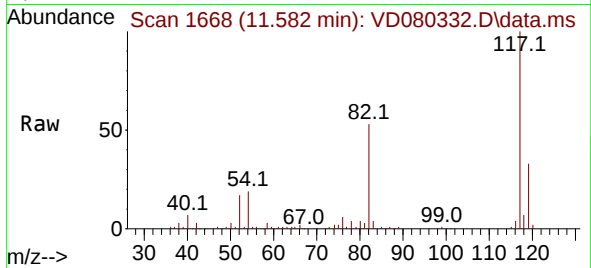




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 1704
Delta R.T. 0.001 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

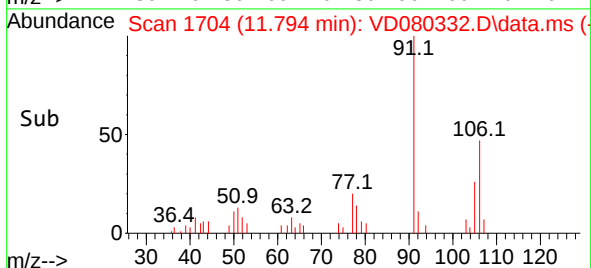
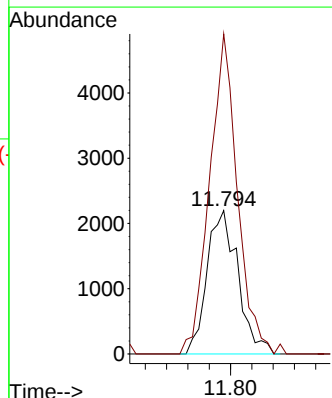
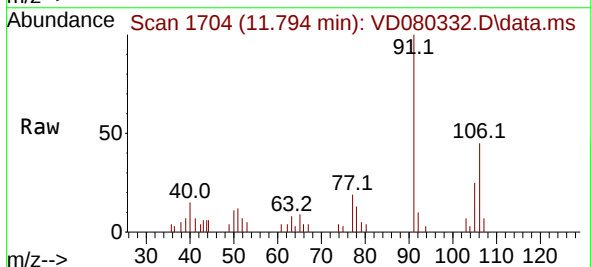
Instrument :
MSVOA_D
ClientSampleId :
TP-14

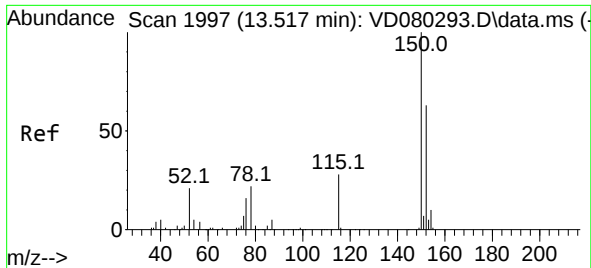
Tgt Ion:117 Resp: 170522
Ion Ratio Lower Upper
117 100
82 52.9 45.8 68.6
119 32.7 26.2 39.2



#68
m/p-Xylenes
Concen: 1.772 ug/l
RT: 11.794 min Scan# 1704
Delta R.T. 0.001 min
Lab File: VD080332.D
Acq: 14 May 2025 19:43

Tgt Ion:106 Resp: 4426
Ion Ratio Lower Upper
106 100
91 201.8 162.6 244.0

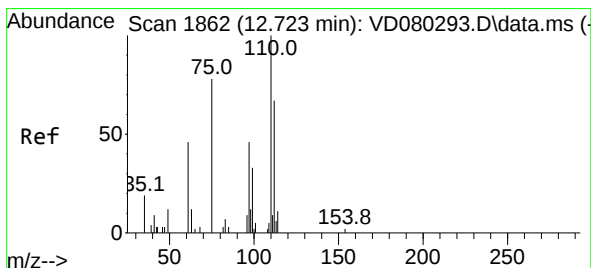
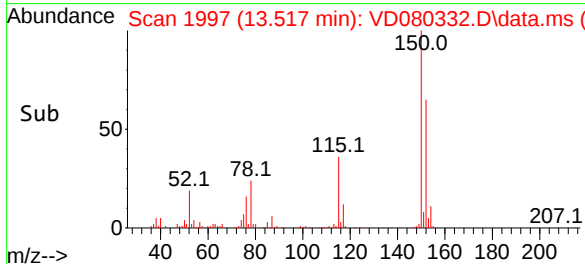
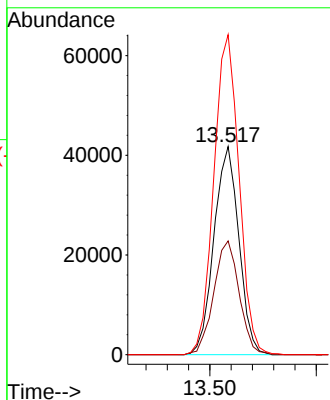
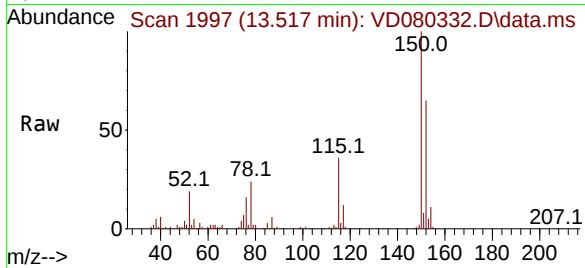




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.517 min Scan# 1997
 Delta R.T. 0.001 min
 Lab File: VD080332.D
 Acq: 14 May 2025 19:43

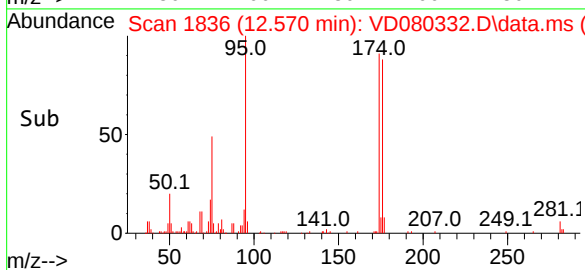
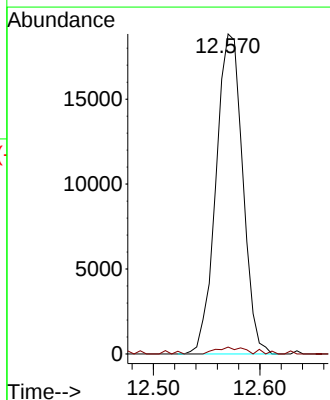
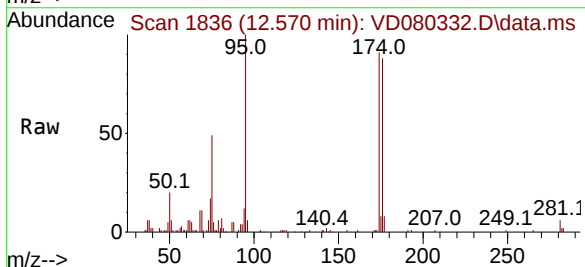
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-14

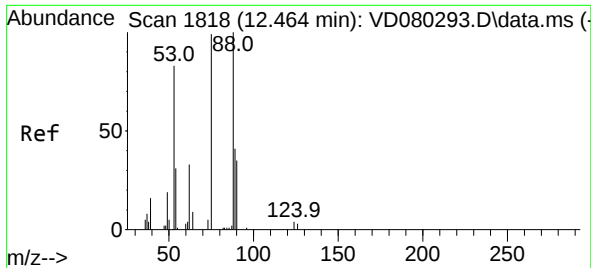
Tgt Ion:152 Resp: 67737
 Ion Ratio Lower Upper
 152 100
 115 55.9 28.9 86.8
 150 155.4 0.0 354.8



#76
 1,2,3-Trichloropropane
 Concen: 50.141 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. -0.152 min
 Lab File: VD080332.D
 Acq: 14 May 2025 19:43

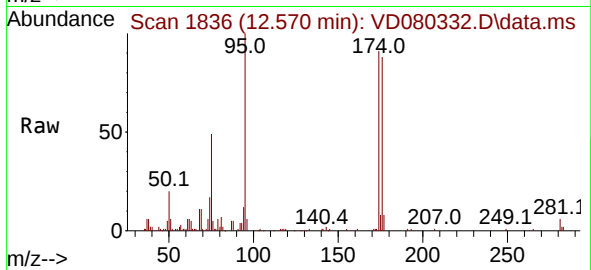
Tgt Ion: 75 Resp: 32780
 Ion Ratio Lower Upper
 75 100
 77 2.1 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.177 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. 0.101 min
 Lab File: VD080332.D
 Acq: 14 May 2025 19:43

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-14



Tgt Ion:	75	Resp:	32780
Ion	Ratio	Lower	Upper
75	100		
53	0.7	68.7	103.1#
89	0.2	36.1	54.1#

