

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
 Data File : VW032091.D
 Acq On : 14 Aug 2025 14:16
 Operator : SY/MD
 Sample : Q2820-08
 Misc : 7.14g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 18 03:52:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

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

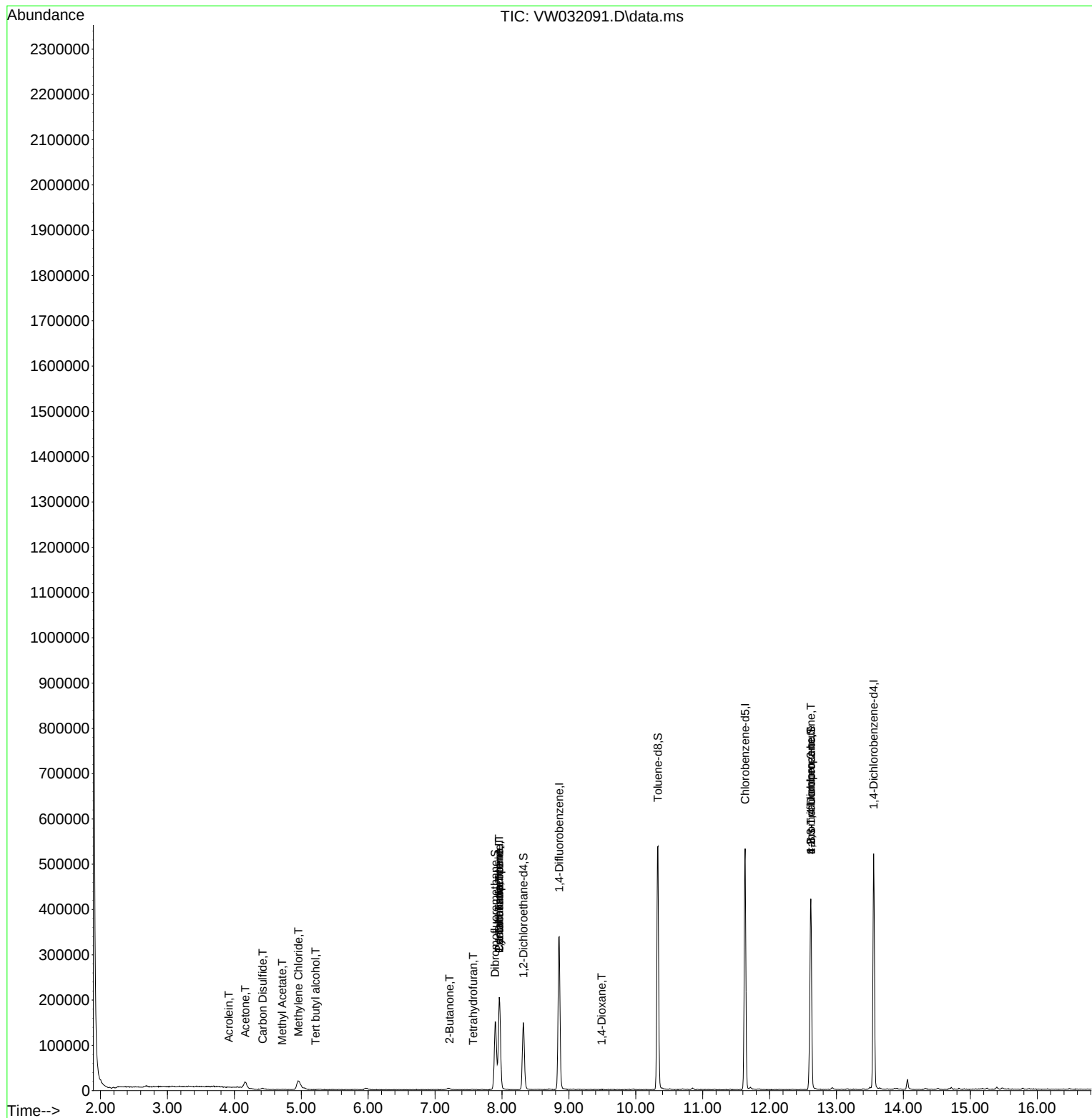
Internal Standards						
1) Pentafluorobenzene	7.959	168	140686	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	276303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	279575	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	127979	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120130	59.040	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 118.080%		
35) Dibromofluoromethane	7.898	113	105957	59.359	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 118.720%		
50) Toluene-d8	10.331	98	349831	52.986	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 105.980%		
62) 4-Bromofluorobenzene	12.617	95	123573	50.790	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 101.580%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.216	59	177	1.343	ug/l #	1
13) Acrolein	3.917	56	384	1.829	ug/l	85
16) Acetone	4.161	43	20310	43.113	ug/l	95
17) Carbon Disulfide	4.423	76	6158	1.345	ug/l #	90
18) Methyl Acetate	4.716	43	1753	1.176	ug/l #	63
20) Methylene Chloride	4.960	84	18319	8.410	ug/l	88
25) 2-Butanone	7.215	43	4090	6.109	ug/l #	81
29) Tetrahydrofuran	7.569	42	641	1.452	ug/l #	44
31) Cyclohexane	7.959	56	4262	1.470	ug/l #	11
36) 1,1-Dichloropropene	7.959	75	13272	5.274	ug/l #	51
38) Carbon Tetrachloride	7.959	117	15713	6.470	ug/l #	19
49) 1,4-Dioxane	9.489	88	20	1.268	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	68767	39.590	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	68767	102.495	ug/l #	10

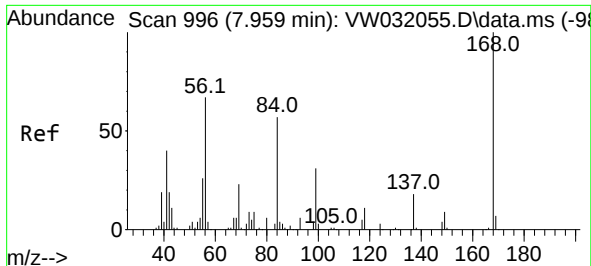
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 18 03:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

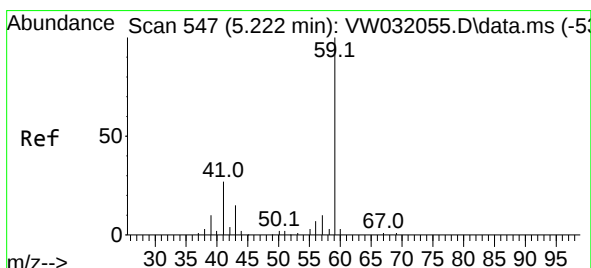
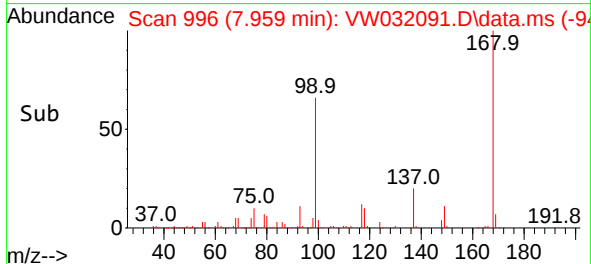
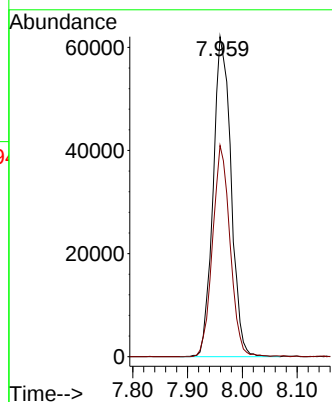
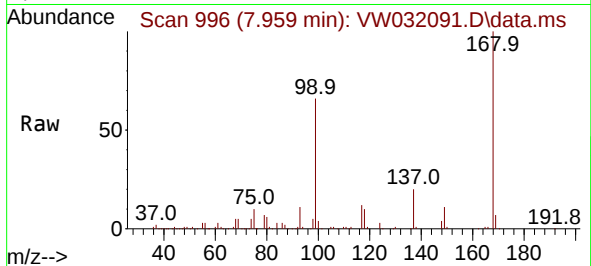




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

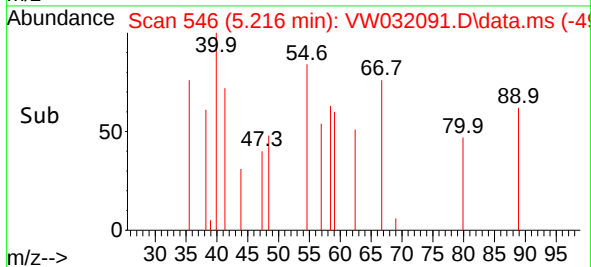
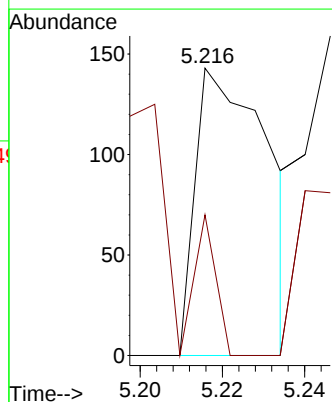
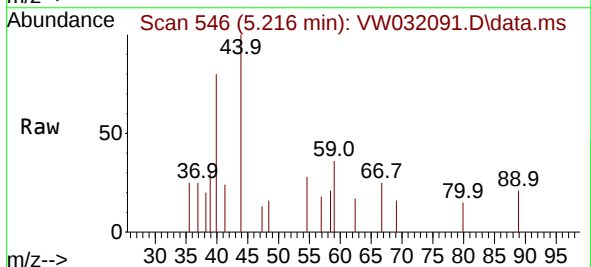
Instrument :
MSVOA_W
ClientSampleId :

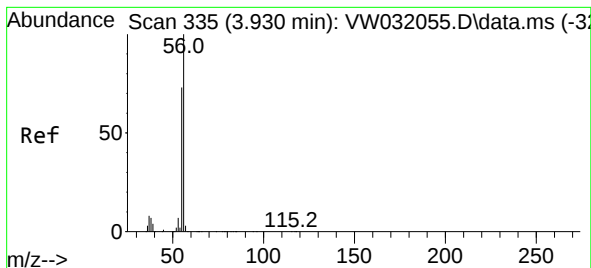
Tgt Ion:168 Resp: 140686
Ion Ratio Lower Upper
168 100
99 66.0 56.0 84.0



#11
Tert butyl alcohol
Concen: 1.343 ug/l
RT: 5.216 min Scan# 546
Delta R.T. -0.006 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 59 Resp: 177
Ion Ratio Lower Upper
59 100
57 111.9 8.7 13.1#





#13

Acrolein

Concen: 1.829 ug/l

RT: 3.917 min Scan# 31

Delta R.T. -0.012 min

Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

Instrument :

MSVOA_W

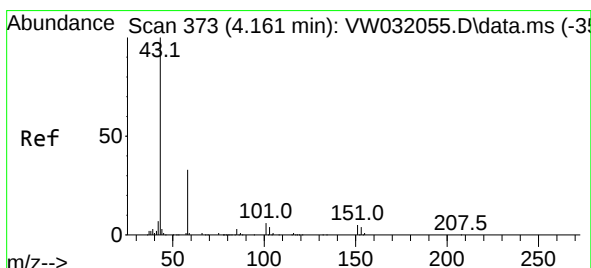
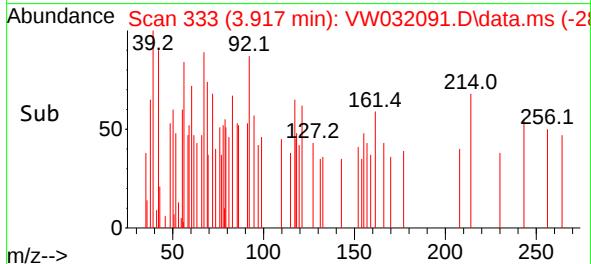
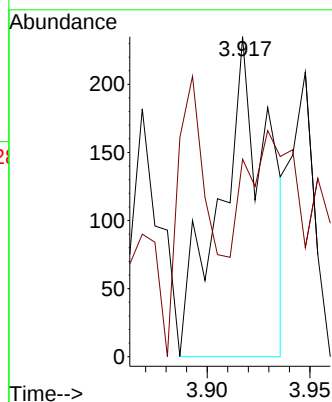
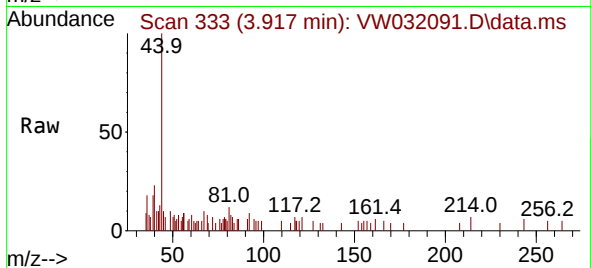
ClientSampleId :

Tgt Ion: 56 Resp: 384

Ion Ratio Lower Upper

56 100

55 56.8 55.4 83.2



#16

Acetone

Concen: 43.113 ug/l

RT: 4.161 min Scan# 373

Delta R.T. -0.000 min

Lab File: VW032091.D

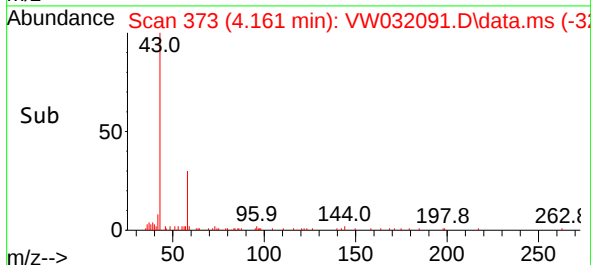
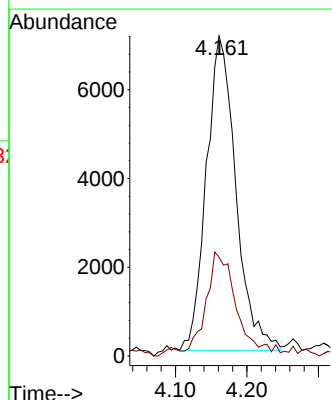
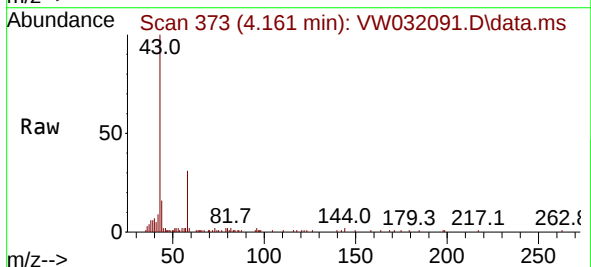
Acq: 14 Aug 2025 14:16

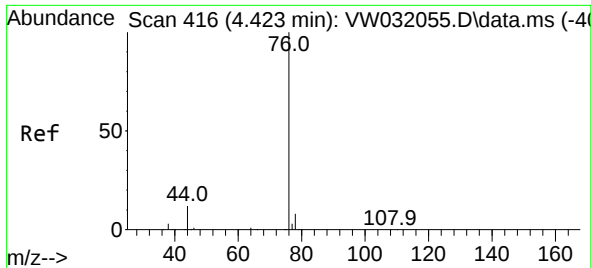
Tgt Ion: 43 Resp: 20310

Ion Ratio Lower Upper

43 100

58 30.4 26.6 39.8

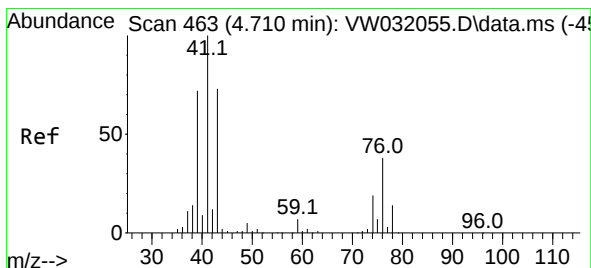
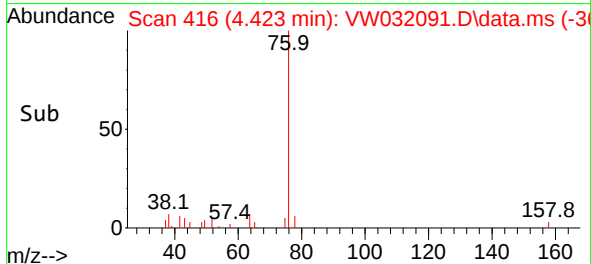
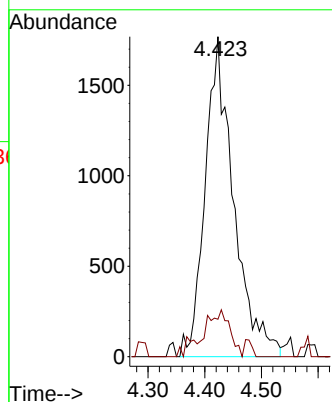
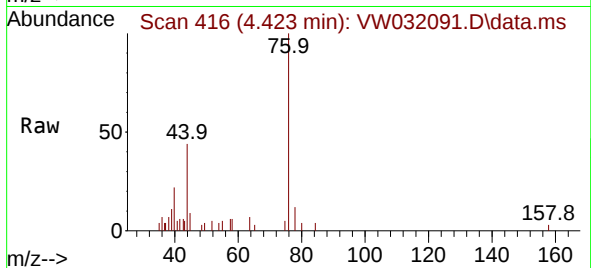




#17
Carbon Disulfide
Concen: 1.345 ug/l
RT: 4.423 min Scan# 416
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

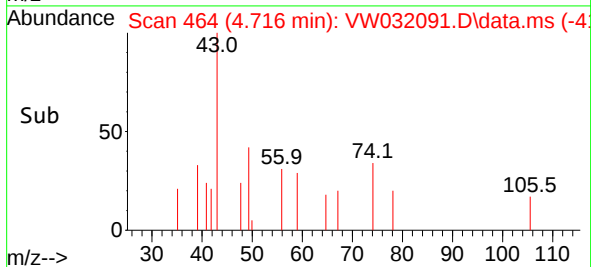
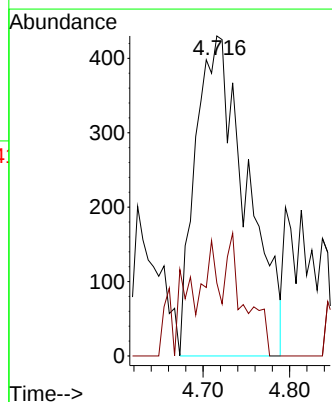
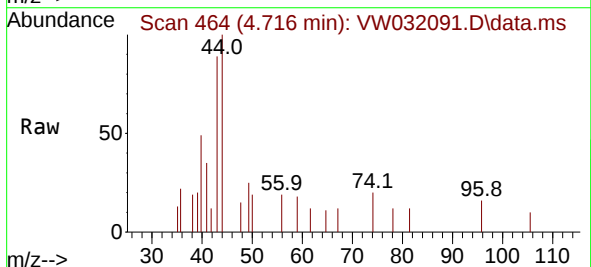
Instrument :
MSVOA_W
ClientSampleId :

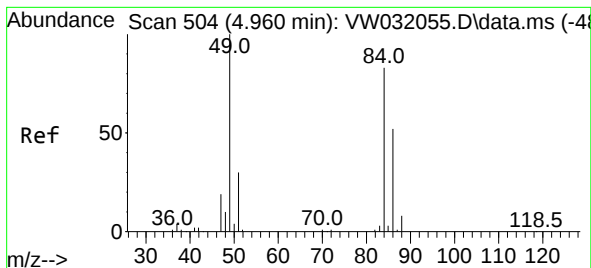
Tgt Ion: 76 Resp: 6158
Ion Ratio Lower Upper
76 100
78 11.7 6.4 9.6#



#18
Methyl Acetate
Concen: 1.176 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 43 Resp: 1753
Ion Ratio Lower Upper
43 100
74 7.2 20.6 31.0#





#20

Methylene Chloride

Concen: 8.410 ug/l

RT: 4.960 min Scan# 504

Delta R.T. -0.000 min

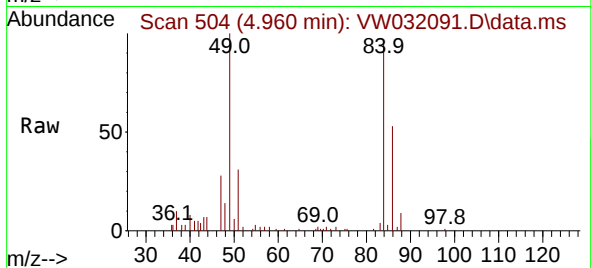
Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 84 Resp: 18319

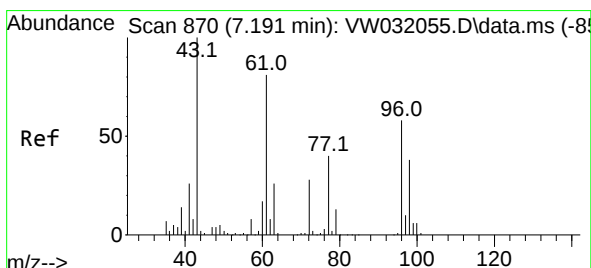
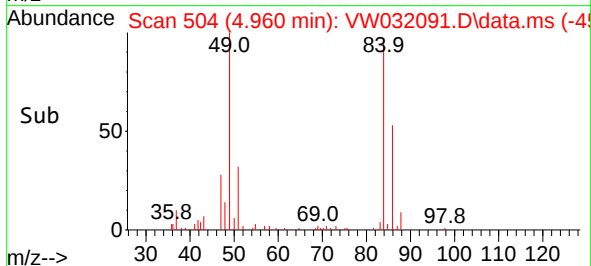
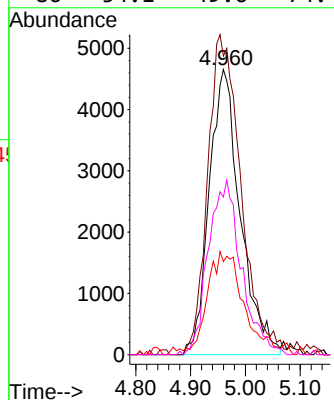
Ion Ratio Lower Upper

84 100

49 104.7 95.9 143.9

51 30.6 28.6 43.0

86 54.1 49.6 74.4



#25

2-Butanone

Concen: 6.109 ug/l

RT: 7.215 min Scan# 874

Delta R.T. 0.024 min

Lab File: VW032091.D

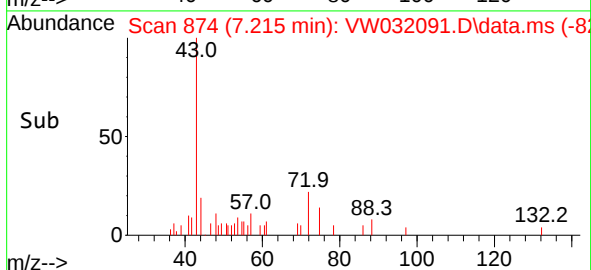
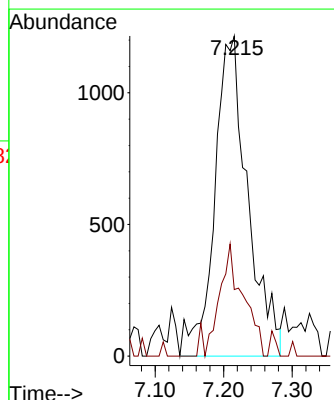
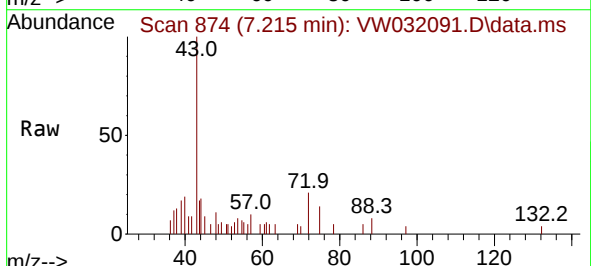
Acq: 14 Aug 2025 14:16

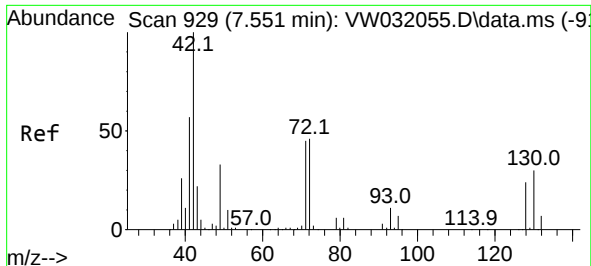
Tgt Ion: 43 Resp: 4090

Ion Ratio Lower Upper

43 100

72 17.8 22.3 33.5#





#29

Tetrahydrofuran

Concen: 1.452 ug/l

RT: 7.569 min Scan# 91

Delta R.T. 0.018 min

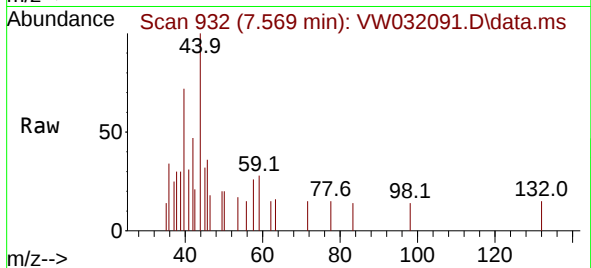
Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

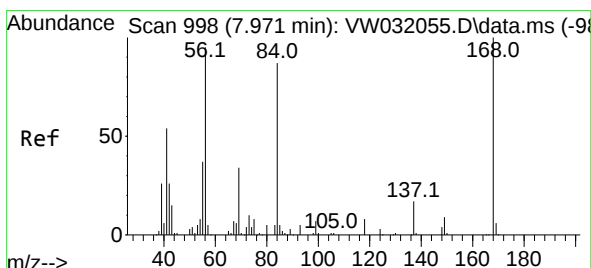
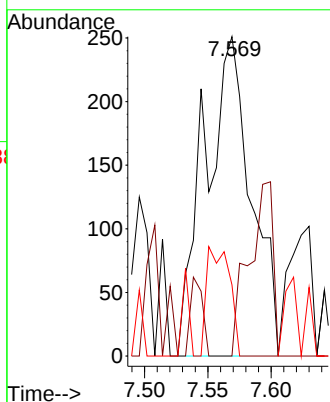
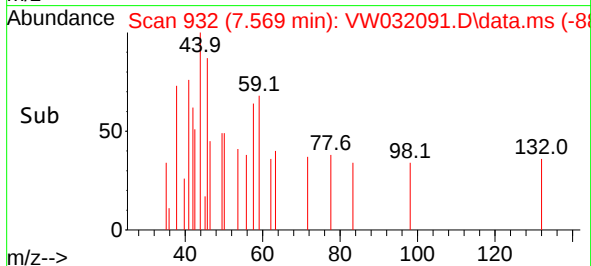
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	42	Resp:	641
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.6	55.0#
71	17.0	34.7	52.1#



#31

Cyclohexane

Concen: 1.470 ug/l

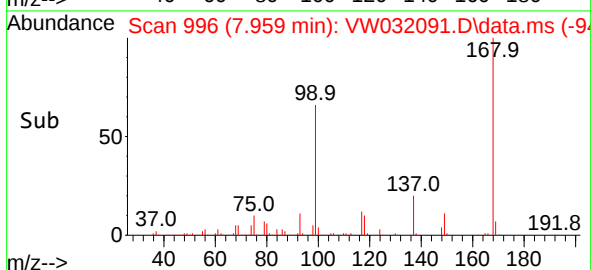
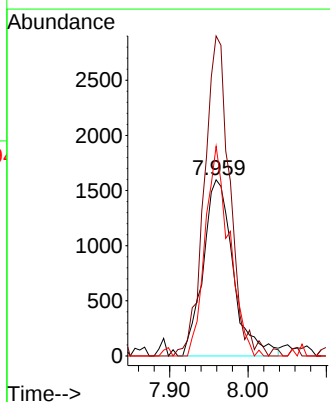
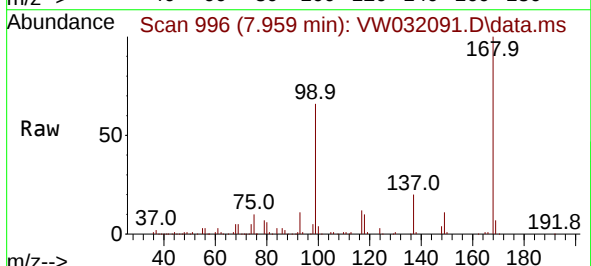
RT: 7.959 min Scan# 996

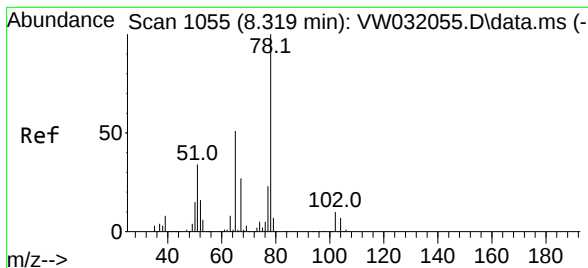
Delta R.T. -0.012 min

Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

Tgt Ion:	56	Resp:	4262
Ion	Ratio	Lower	Upper
56	100		
69	178.0	28.6	42.8#
84	119.0	73.0	109.4#





#33

1,2-Dichloroethane-d4

Concen: 59.040 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

Instrument :

MSVOA_W

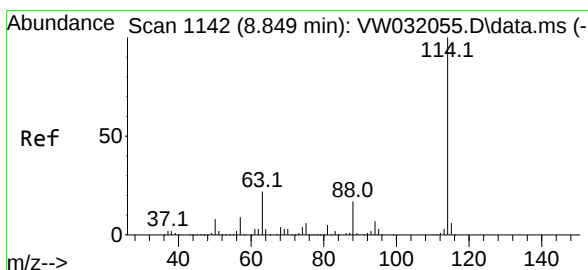
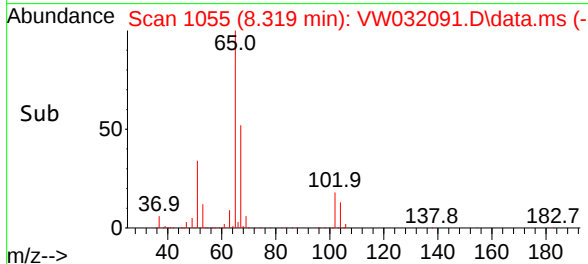
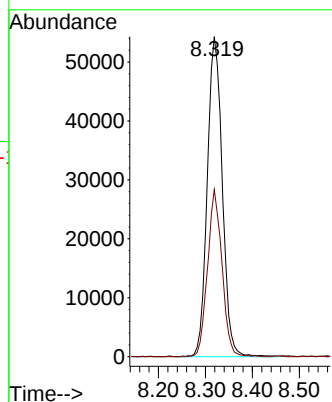
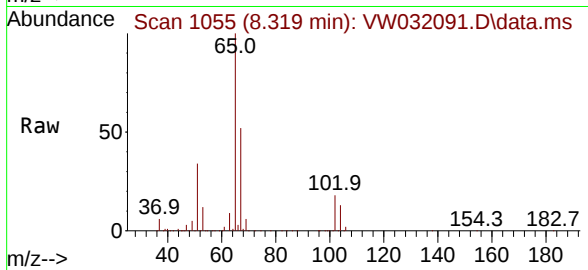
ClientSampleId :

Tgt Ion: 65 Resp: 120130

Ion Ratio Lower Upper

65 100

67 50.2 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

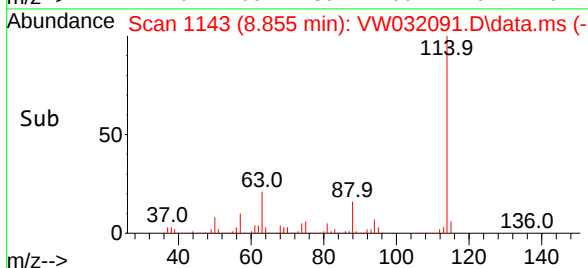
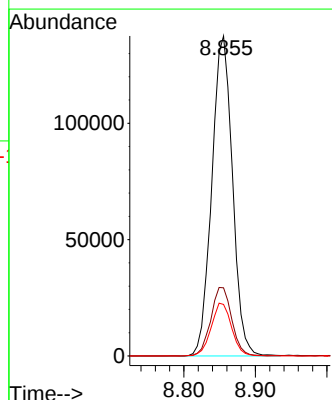
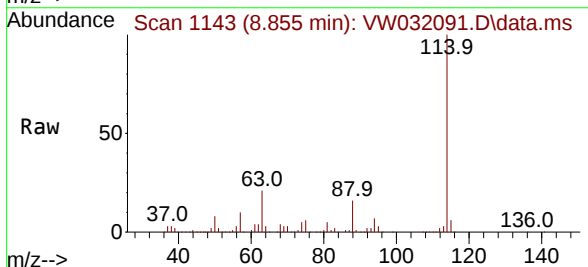
Tgt Ion: 114 Resp: 276303

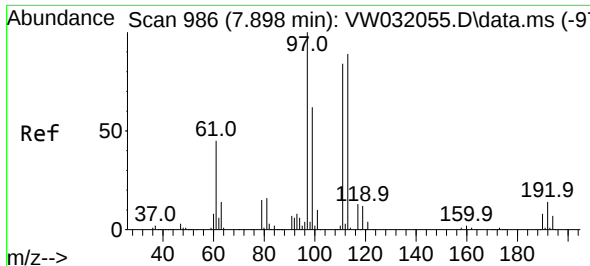
Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.0

88 16.1 0.0 33.8

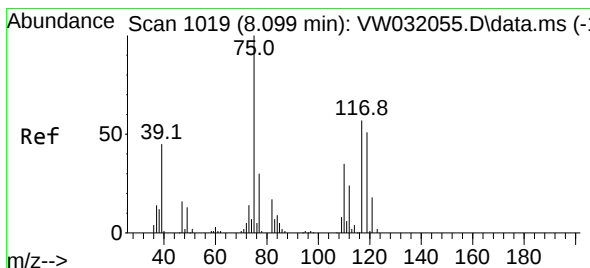
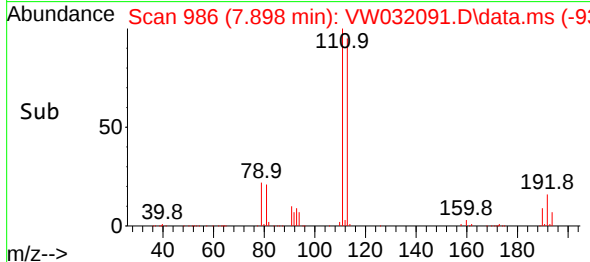
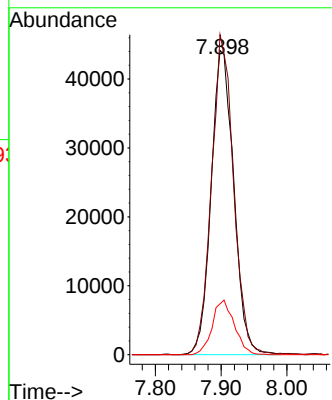
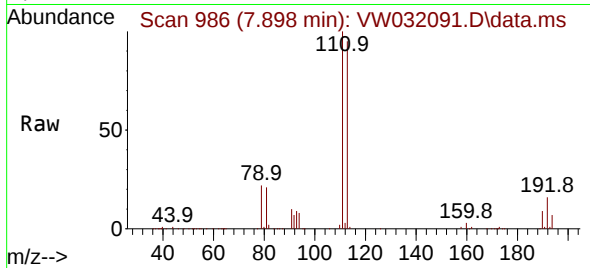




#35
Dibromofluoromethane
Concen: 59.359 ug/l
RT: 7.898 min Scan# 91
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

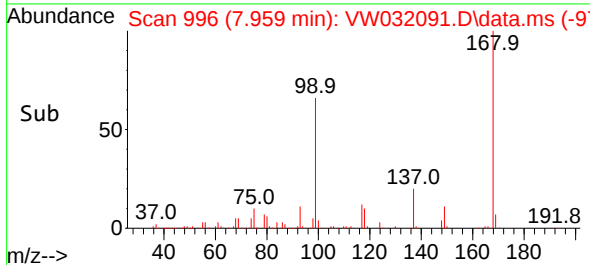
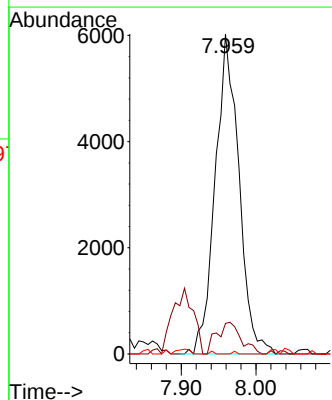
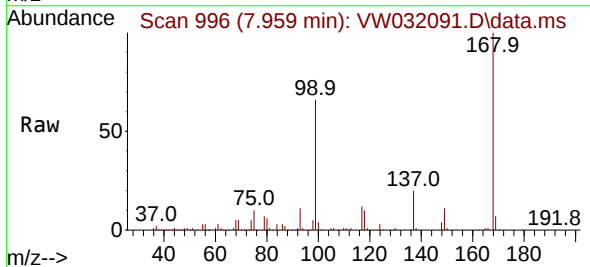
Instrument :
MSVOA_W
ClientSampleId :

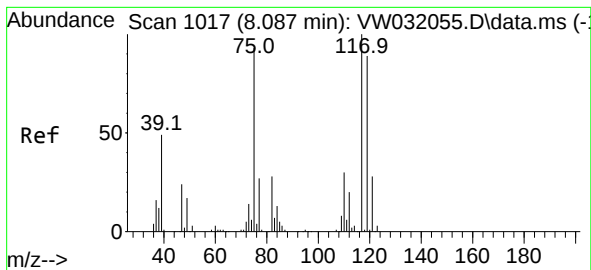
Tgt Ion:113 Resp: 105957
Ion Ratio Lower Upper
113 100
111 102.4 80.1 120.1
192 17.4 13.1 19.7



#36
1,1-Dichloropropene
Concen: 5.274 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 75 Resp: 13272
Ion Ratio Lower Upper
75 100
110 10.2 17.4 52.2#
77 0.1 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.470 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.128 min

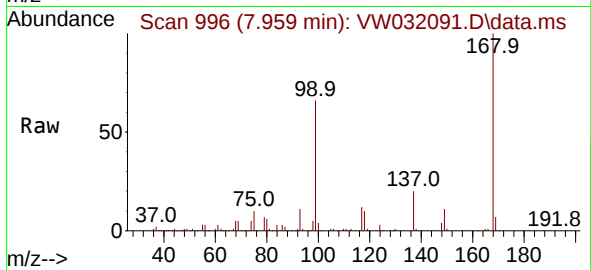
Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

Instrument :

MSVOA_W

ClientSampleId :



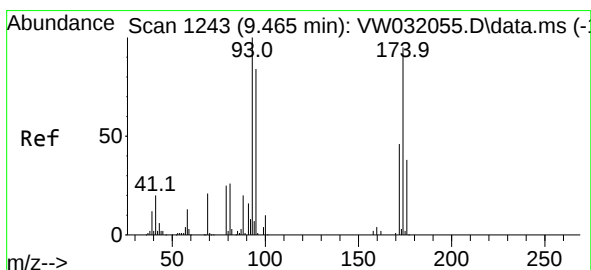
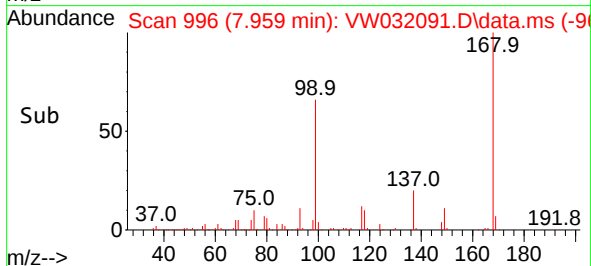
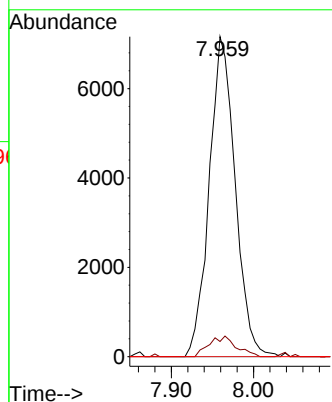
Tgt Ion:117 Resp: 15713

Ion Ratio Lower Upper

117 100

119 4.8 71.4 107.2#

121 0.0 22.3 33.5#



#49

1,4-Dioxane

Concen: 1.268 ug/l

RT: 9.489 min Scan# 1247

Delta R.T. 0.024 min

Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

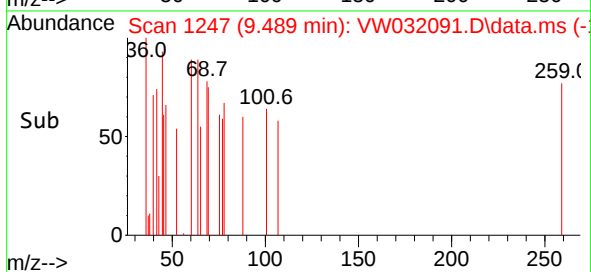
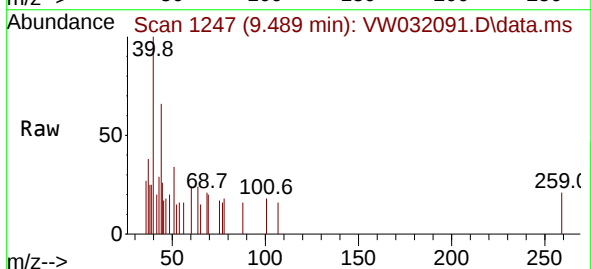
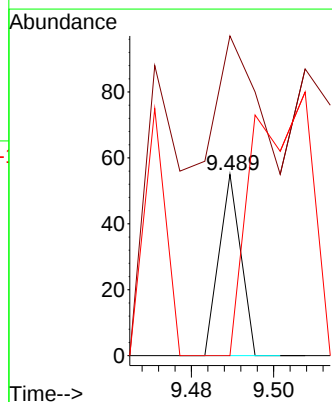
Tgt Ion: 88 Resp: 20

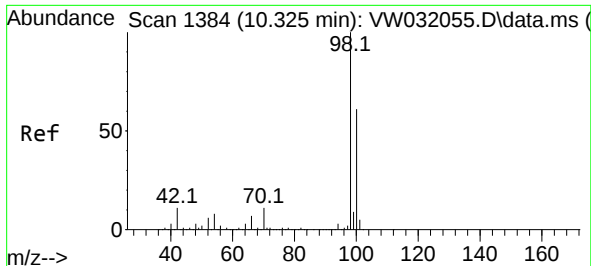
Ion Ratio Lower Upper

88 100

43 795.0 20.6 30.8#

58 135.0 60.4 90.6#

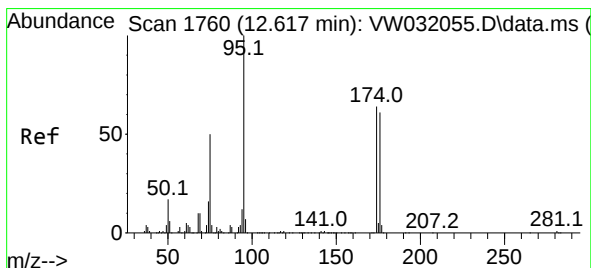
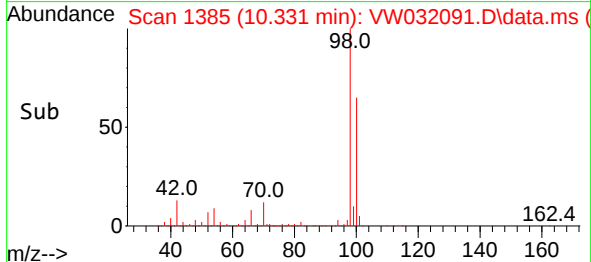
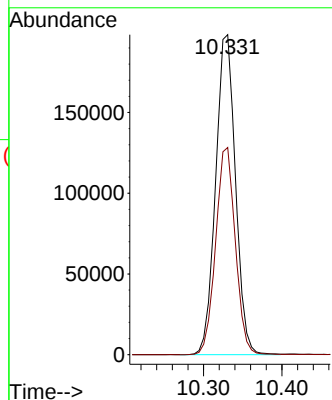
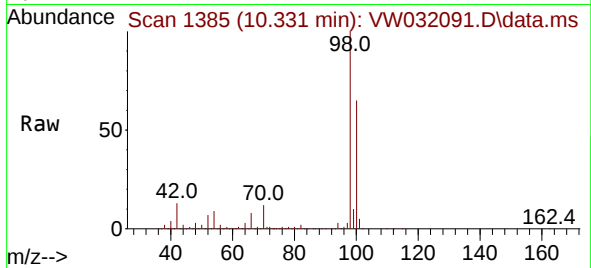




#50
Toluene-d8
Concen: 52.986 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

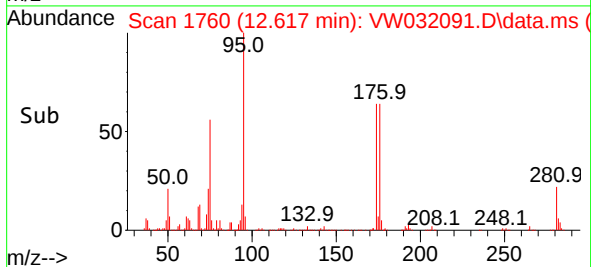
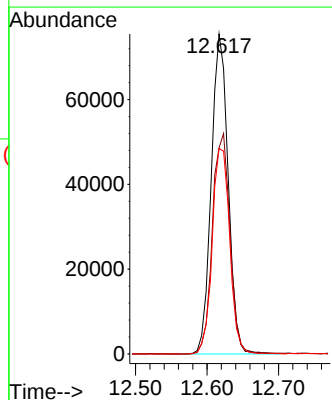
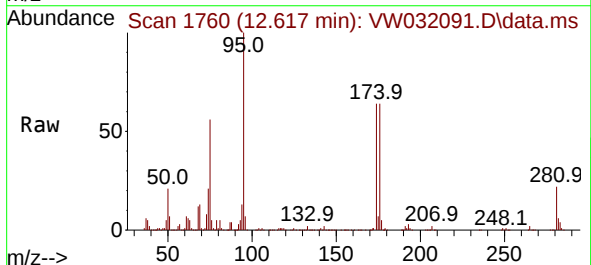
Instrument :
MSVOA_W
ClientSampleId :

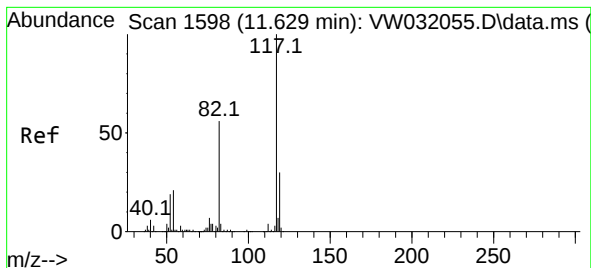
Tgt Ion: 98 Resp: 349831
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 50.790 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 95 Resp: 123573
Ion Ratio Lower Upper
95 100
174 71.9 0.0 129.0
176 66.7 0.0 124.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

Instrument :

MSVOA_W

ClientSampleId :

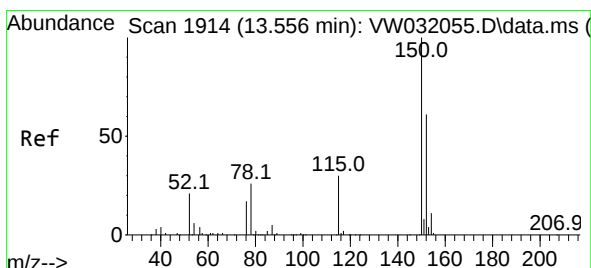
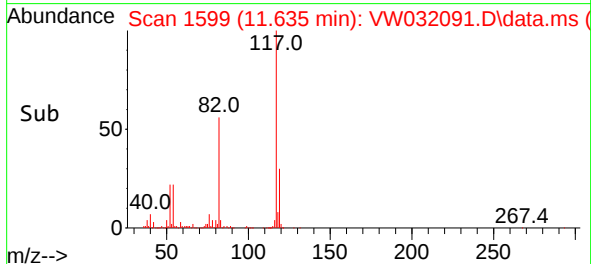
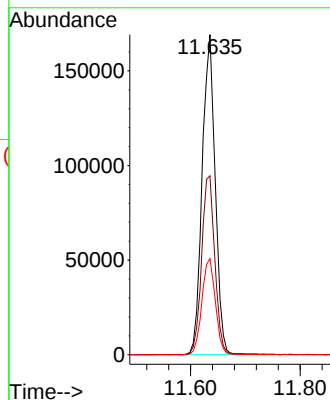
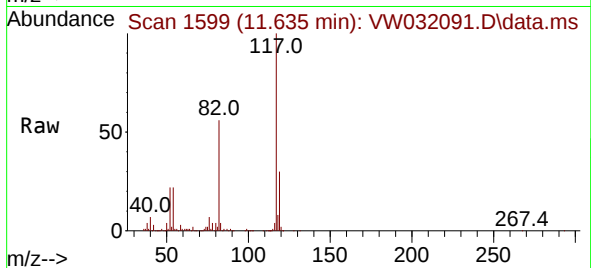
Tgt Ion:117 Resp: 279575

Ion Ratio Lower Upper

117 100

82 55.9 45.0 67.4

119 30.0 24.2 36.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032091.D

Acq: 14 Aug 2025 14:16

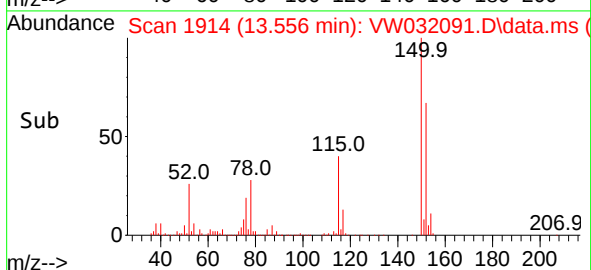
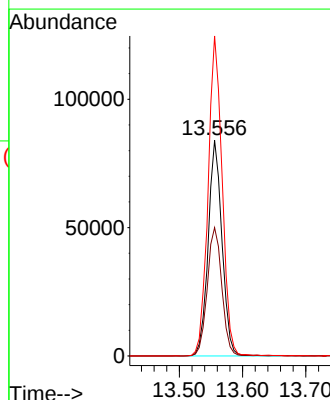
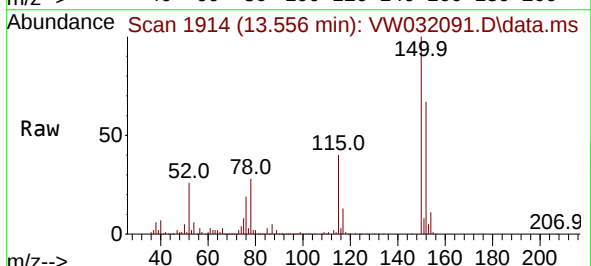
Tgt Ion:152 Resp: 127979

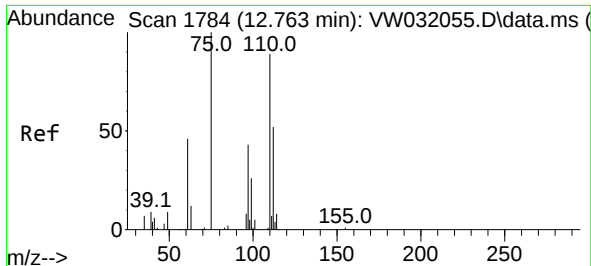
Ion Ratio Lower Upper

152 100

115 62.5 32.6 97.8

150 151.1 0.0 359.4

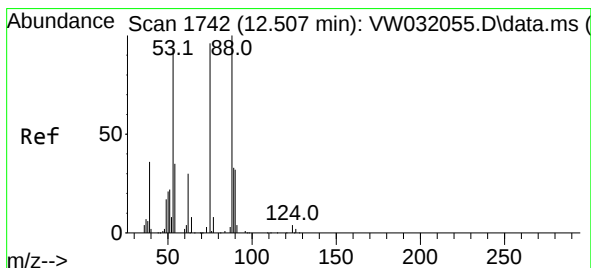
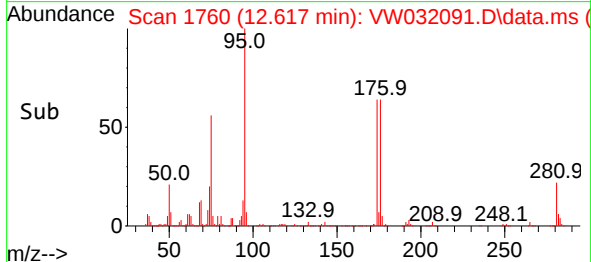
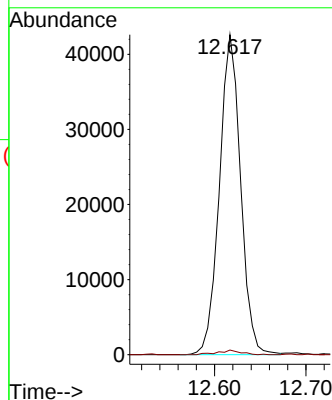
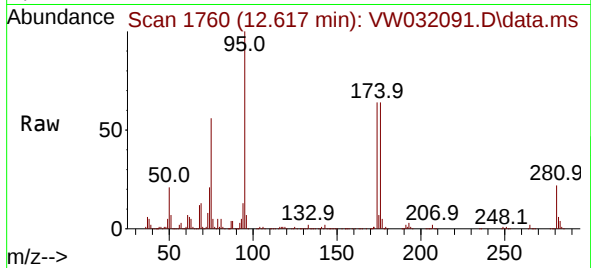




#76
1,2,3-Trichloropropane
Concen: 39.590 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 75 Resp: 68767
Ion Ratio Lower Upper
75 100
77 1.5 123.5 370.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 102.495 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.110 min
Lab File: VW032091.D
Acq: 14 Aug 2025 14:16

Tgt Ion: 75 Resp: 68767
Ion Ratio Lower Upper
75 100
53 0.2 81.0 121.6#
89 0.9 37.3 55.9#

