

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111125\
 Data File : VY023741.D
 Acq On : 11 Nov 2025 15:37
 Operator : SY/MD
 Sample : Q3581-07
 Misc : 5.71g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR200059

Quant Time: Nov 12 03:38:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	822650	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1385263	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1175350	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	499406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	372167	54.101	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 108.200%	
35) Dibromofluoromethane	7.640	113	434695	51.070	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.140%	
50) Toluene-d8	10.109	98	1550030	48.899	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.800%	
62) 4-Bromofluorobenzene	12.408	95	459527	43.910	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 87.820%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.824	59	781	1.526	ug/l #	72
20) Methylene Chloride	4.622	84	19050	2.151	ug/l	95
31) Cyclohexane	7.707	56	13542	1.183	ug/l #	4
36) 1,1-Dichloropropene	7.707	75	51449	4.566	ug/l #	48
38) Carbon Tetrachloride	7.713	117	74042	5.419	ug/l #	17
51) 4-Methyl-2-Pentanone	10.109	43	5483	1.192	ug/l #	1
76) 1,2,3-Trichloropropane	12.408	75	221080	50.176	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	221080	123.041	ug/l #	15

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

Quant Time: Nov 12 03:38:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
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Response via : Initial Calibration

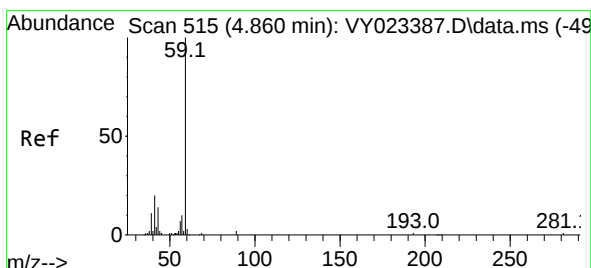
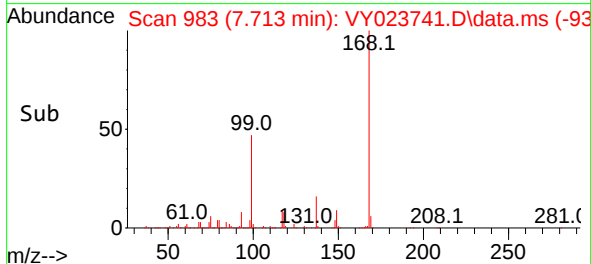
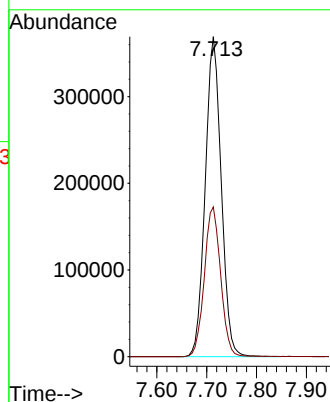
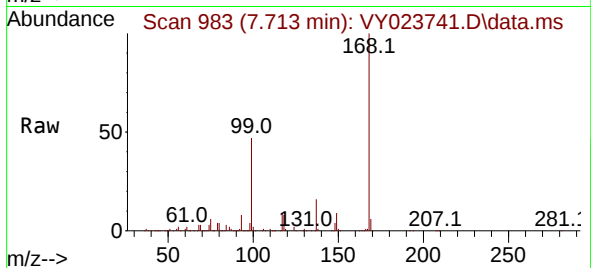




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

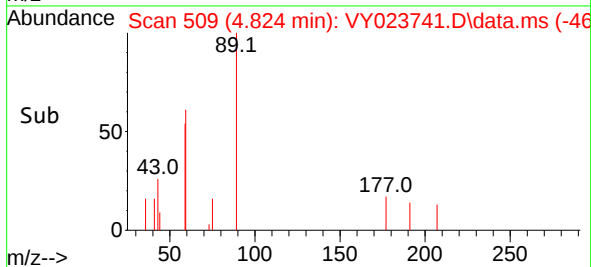
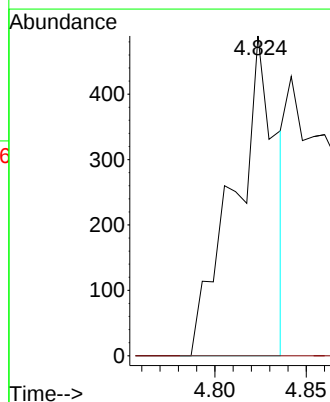
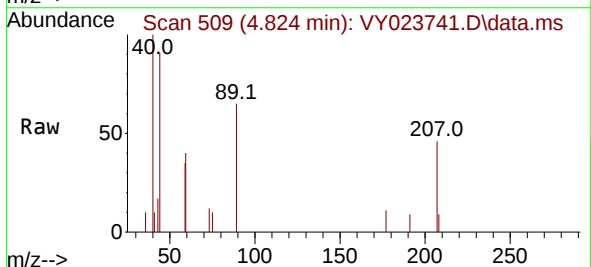
Instrument :
MSVOA_Y
ClientSampleId :
RBR200059

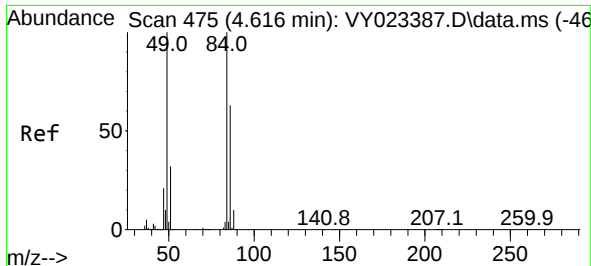
Tgt Ion:168 Resp: 822650
Ion Ratio Lower Upper
168 100
99 46.8 39.7 59.5



#11
Tert butyl alcohol
Concen: 1.526 ug/l
RT: 4.824 min Scan# 509
Delta R.T. -0.037 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

Tgt Ion: 59 Resp: 781
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#20

Methylene Chloride

Concen: 2.151 ug/l

RT: 4.622 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY023741.D

Acq: 11 Nov 2025 15:37

Instrument :

MSVOA_Y

ClientSampleId :

RBR200059

Tgt Ion: 84 Resp: 19050

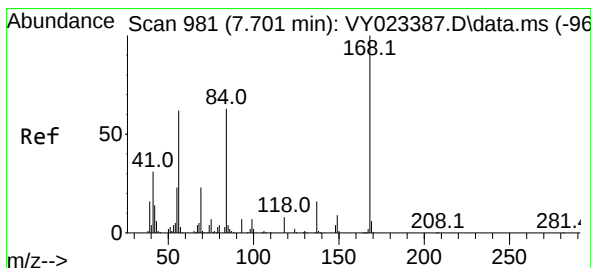
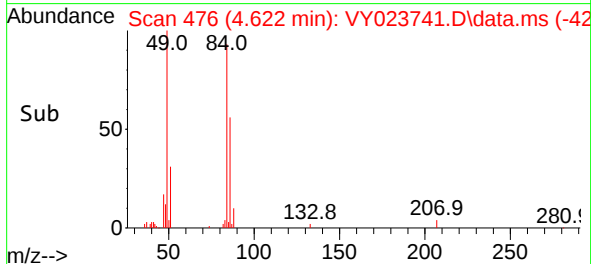
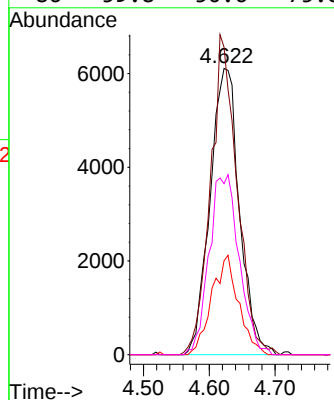
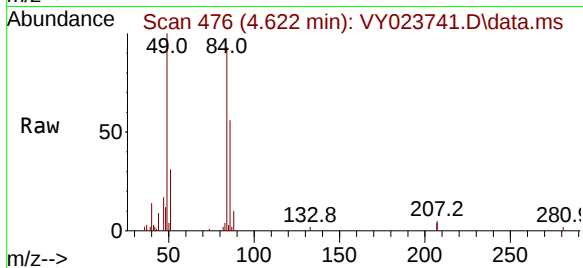
Ion Ratio Lower Upper

84 100

49 107.4 80.2 120.4

51 32.8 25.9 38.9

86 59.8 50.6 75.8



#31

Cyclohexane

Concen: 1.183 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.006 min

Lab File: VY023741.D

Acq: 11 Nov 2025 15:37

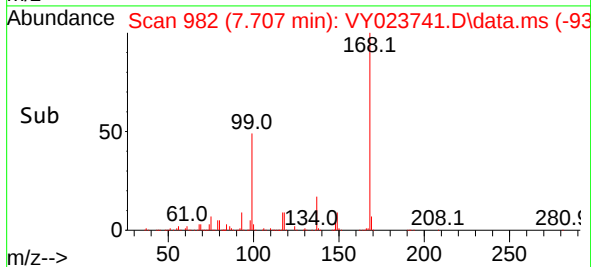
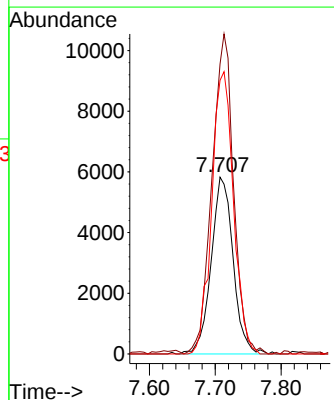
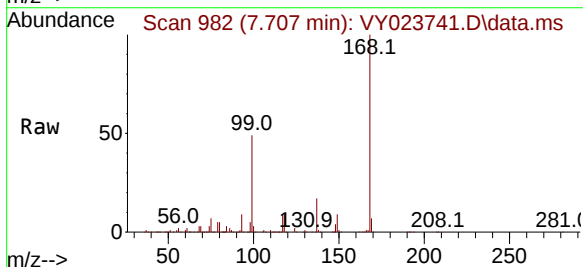
Tgt Ion: 56 Resp: 13542

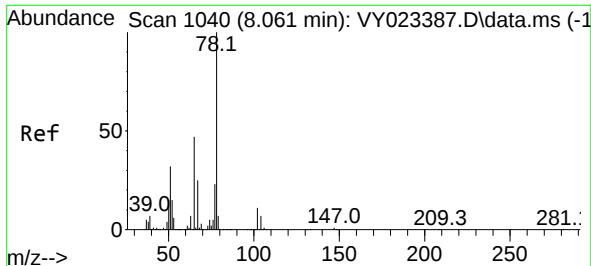
Ion Ratio Lower Upper

56 100

69 164.1 30.0 45.0#

84 154.8 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 54.101 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023741.D

Acq: 11 Nov 2025 15:37

Instrument :

MSVOA_Y

ClientSampleId :

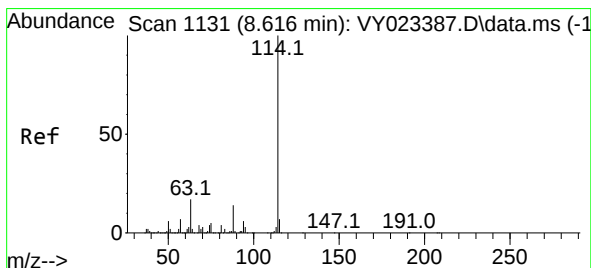
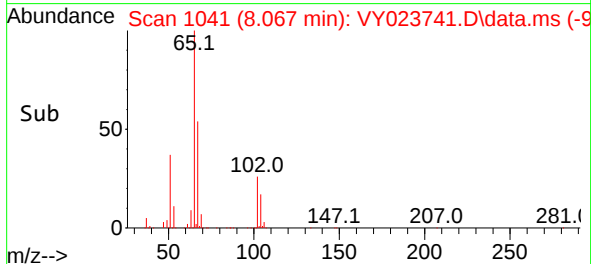
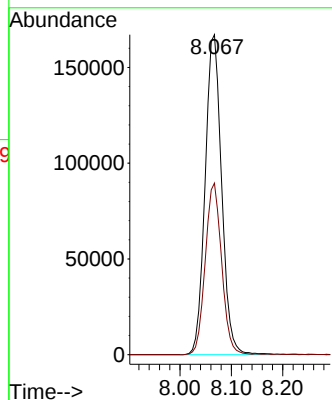
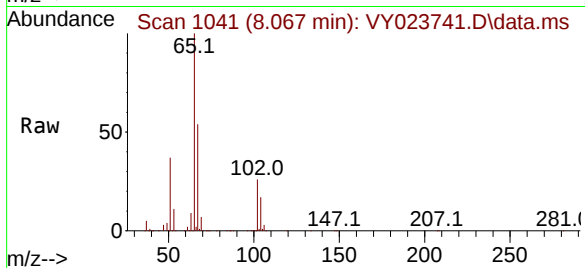
RBR200059

Tgt Ion: 65 Resp: 372167

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023741.D

Acq: 11 Nov 2025 15:37

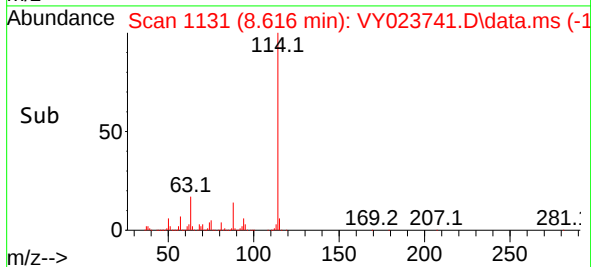
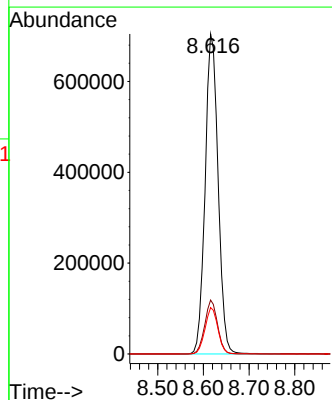
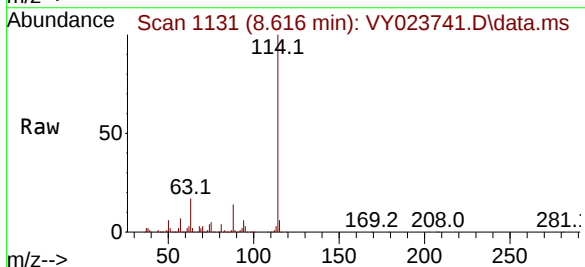
Tgt Ion: 114 Resp: 1385263

Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.2

88 14.5 0.0 28.4

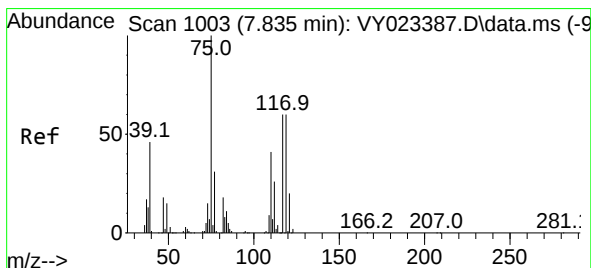
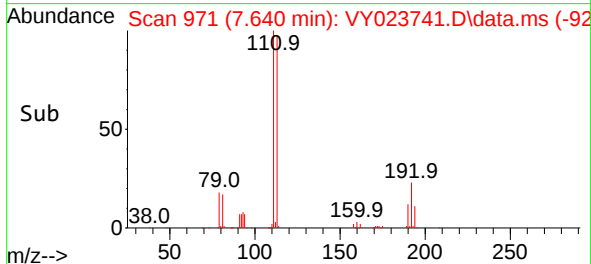
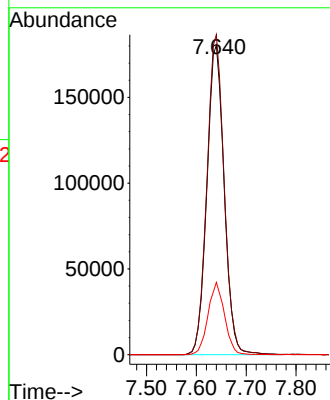
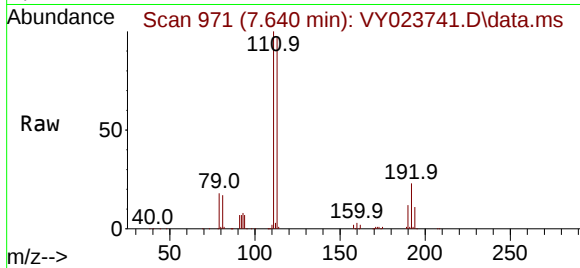




#35
Dibromofluoromethane
Concen: 51.070 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

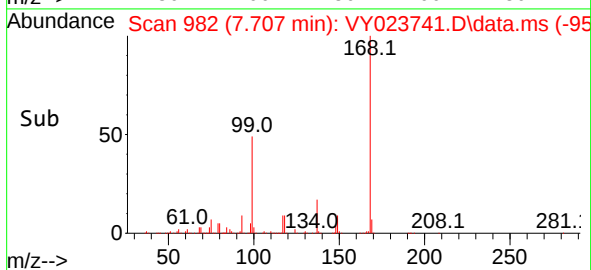
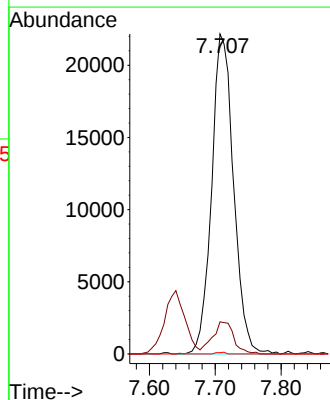
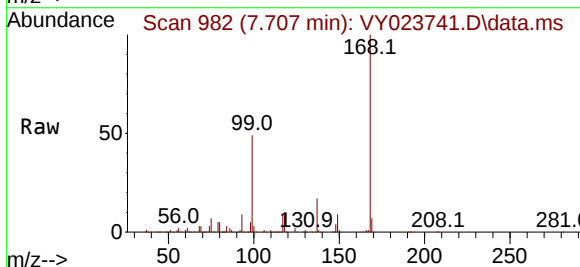
Instrument :
MSVOA_Y
ClientSampleId :
RBR200059

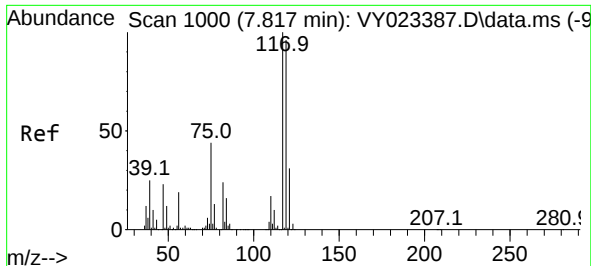
Tgt Ion:113 Resp: 434695
Ion Ratio Lower Upper
113 100
111 103.0 81.8 122.6
192 22.3 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.566 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

Tgt Ion: 75 Resp: 51449
Ion Ratio Lower Upper
75 100
110 9.8 19.9 59.7#
77 0.2 25.0 37.6#

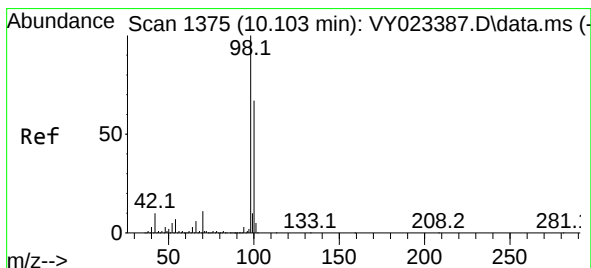
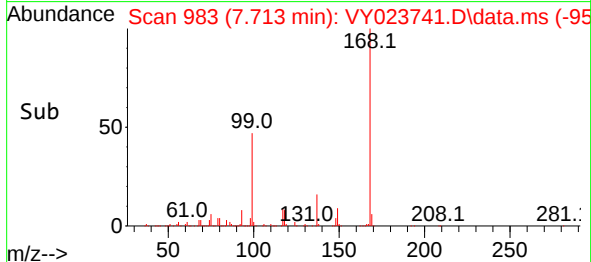
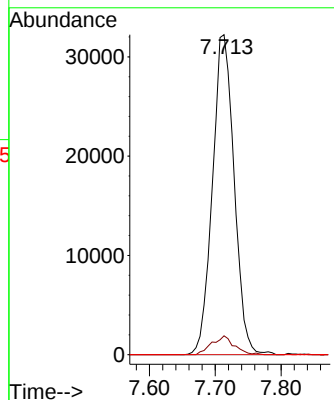
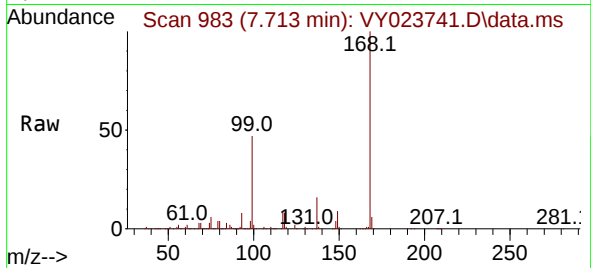




#38
Carbon Tetrachloride
Concen: 5.419 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

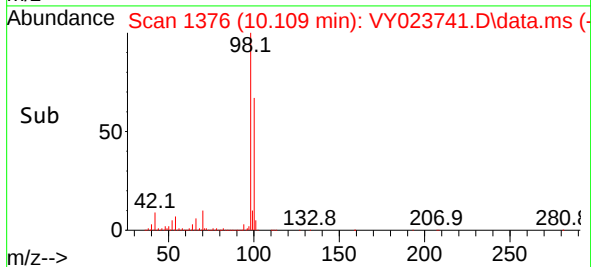
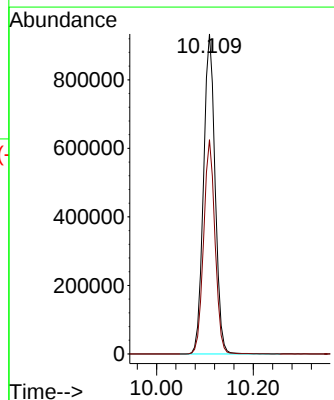
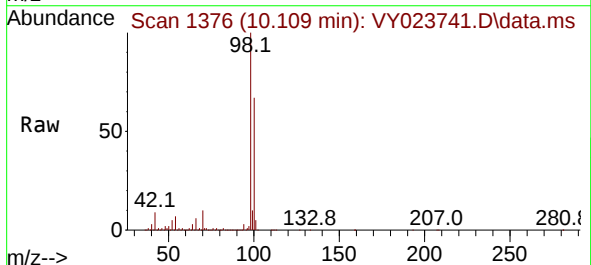
Instrument :
MSVOA_Y
ClientSampleId :
RBR200059

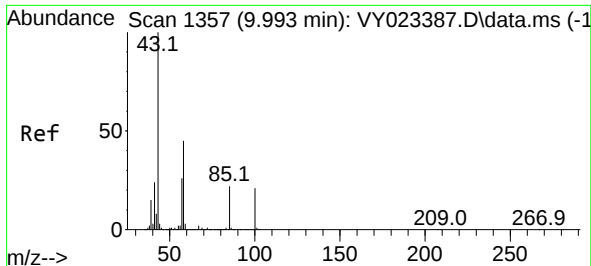
Tgt Ion:117 Resp: 74042
Ion Ratio Lower Upper
117 100
119 5.9 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 48.899 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

Tgt Ion: 98 Resp: 1550030
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.4

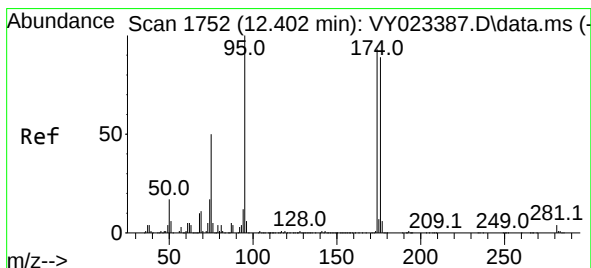
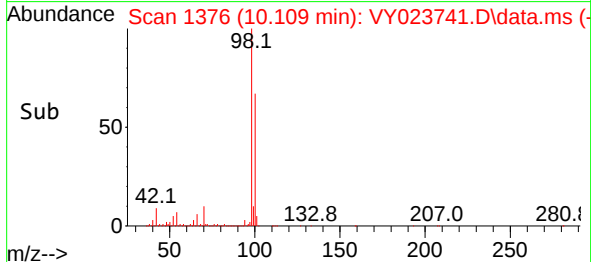
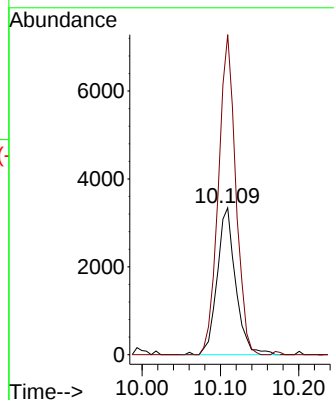
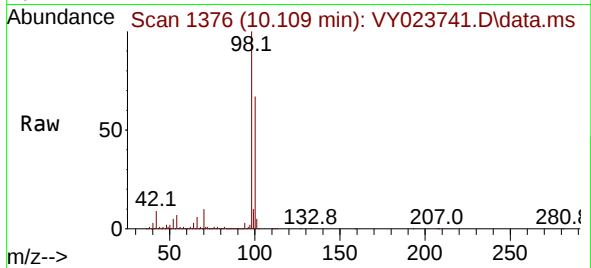




#51
4-Methyl-2-Pentanone
Concen: 1.192 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.116 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

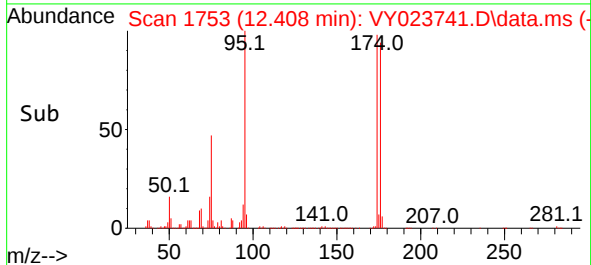
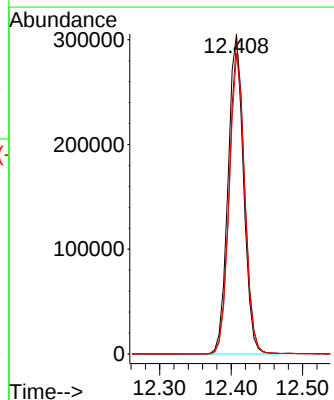
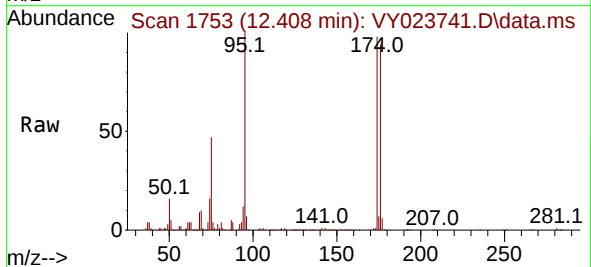
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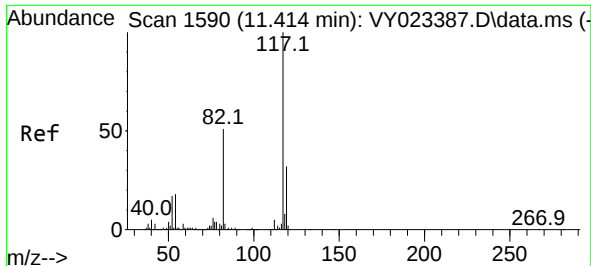
Tgt Ion: 43 Resp: 5483
Ion Ratio Lower Upper
43 100
58 205.3 35.3 52.9#



#62
4-Bromofluorobenzene
Concen: 43.910 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

Tgt Ion: 95 Resp: 459527
Ion Ratio Lower Upper
95 100
174 97.2 0.0 192.8
176 93.2 0.0 187.6

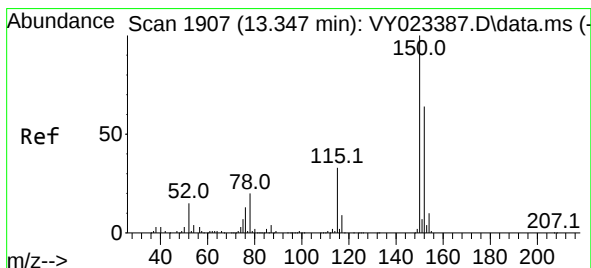
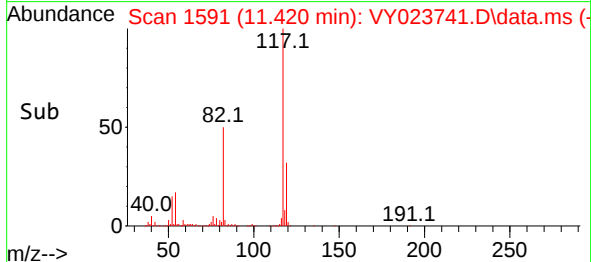
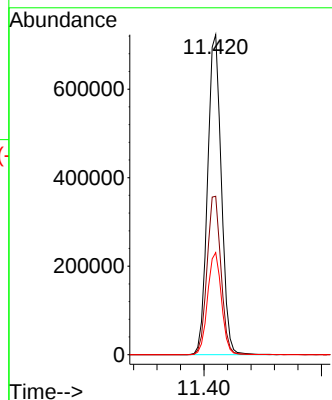
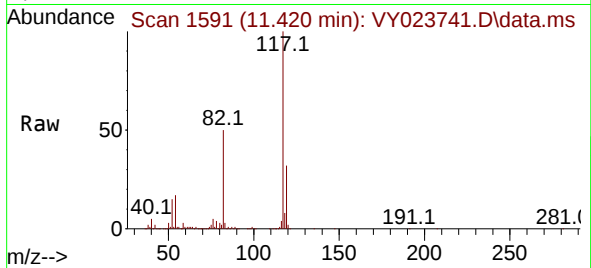




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1175350
Delta R.T. 0.006 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

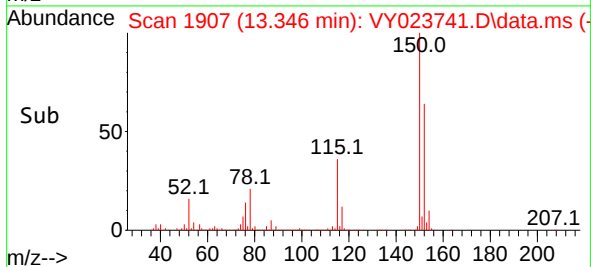
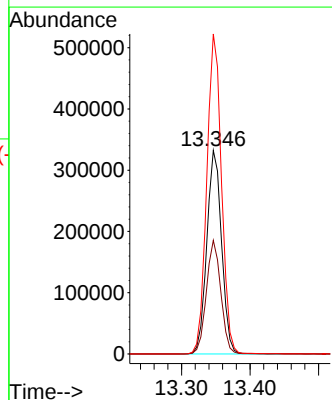
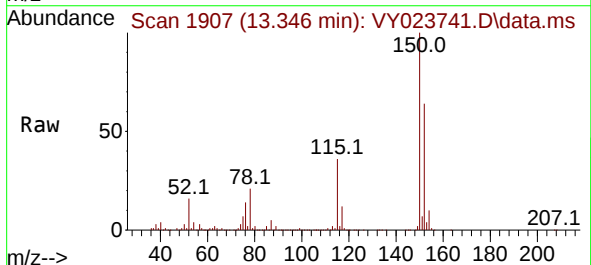
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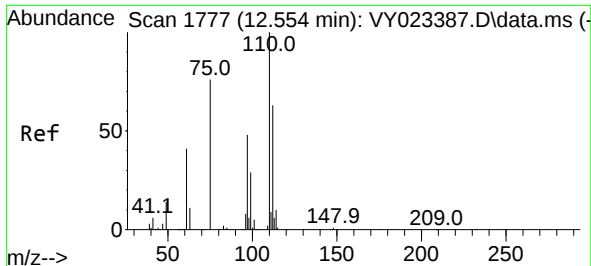
Tgt Ion:117 Resp: 1175350
Ion Ratio Lower Upper
117 100
82 49.5 41.0 61.4
119 31.9 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

Tgt Ion:152 Resp: 499406
Ion Ratio Lower Upper
152 100
115 54.6 27.1 81.2
150 156.4 0.0 347.4

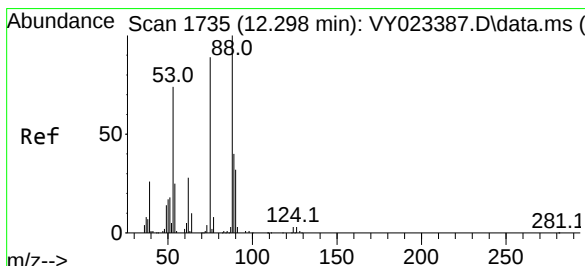
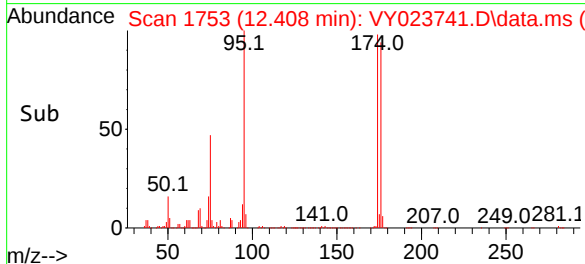
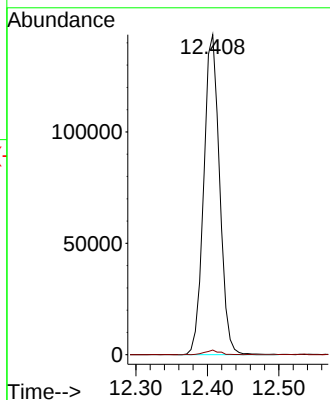
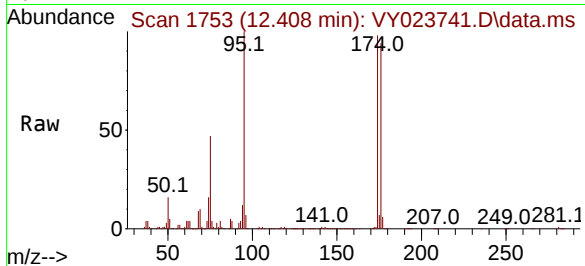




#76
1,2,3-Trichloropropane
Concen: 50.176 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
RBR200059

Tgt Ion: 75 Resp: 221080
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 123.041 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023741.D
Acq: 11 Nov 2025 15:37

Tgt Ion: 75 Resp: 221080
Ion Ratio Lower Upper
75 100
53 0.1 68.6 102.8#
89 0.1 39.0 58.4#

