

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
 Data File : VY022555.D
 Acq On : 04 Jun 2025 16:58
 Operator : SY/MD
 Sample : Q2177-04
 Misc : 6.37g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-187-SB02

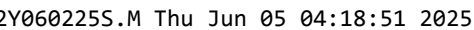
Quant Time: Jun 05 04:18:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

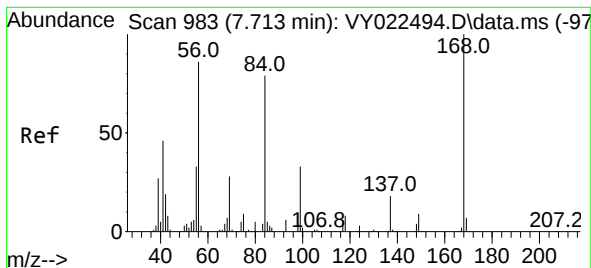
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	280753	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	497958	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	360175	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	103121	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	163448	52.052	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.100%
35) Dibromofluoromethane	7.628	113	154902	52.117	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.240%
50) Toluene-d8	10.103	98	596438	49.663	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.320%
62) 4-Bromofluorobenzene	12.401	95	118458	33.105	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	66.200%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.866	59	599	2.671	ug/l #	73
16) Acetone	3.866	43	33897	53.155	ug/l	97
17) Carbon Disulfide	4.098	76	24493	2.598	ug/l	98
20) Methylene Chloride	4.610	84	10548	2.912	ug/l	86
25) 2-Butanone	6.890	43	8145	8.855	ug/l #	82
31) Cyclohexane	7.701	56	7873	1.305	ug/l #	48
36) 1,1-Dichloropropene	7.707	75	24963	5.175	ug/l #	50
38) Carbon Tetrachloride	7.707	117	29352	5.931	ug/l #	16
49) 1,4-Dioxane	9.201	88	26	1.159	ug/l #	4
52) Toluene	10.164	92	10437	1.166	ug/l	99
73) Isopropylbenzene	12.255	105	59201	6.993	ug/l #	61
74) N-amyl acetate	12.048	43	6528	3.056	ug/l #	65
76) 1,2,3-Trichloropropane	12.401	75	70449	59.716	ug/l #	100
78) n-propylbenzene	12.499	91	72268	6.989	ug/l #	58
79) 2-Chlorotoluene	12.755	91	8508	1.552	ug/l #	44
81) trans-1,4-Dichloro-2-b...	12.255	75	2128	4.356	ug/l #	1
82) 4-Chlorotoluene	12.755	91	8508	1.505	ug/l #	44
84) 1,2,4-Trimethylbenzene	13.285	105	2796023	420.590	ug/l #	1
85) sec-Butylbenzene	13.285	105	2796414	306.071	ug/l #	1
86) p-Isopropyltoluene	13.279	119	18340407	2435.321	ug/l #	3

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

Quant Time: Jun 05 04:18:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022555.D

Acq: 04 Jun 2025 16:58

Instrument :

MSVOA_Y

ClientSampleId :

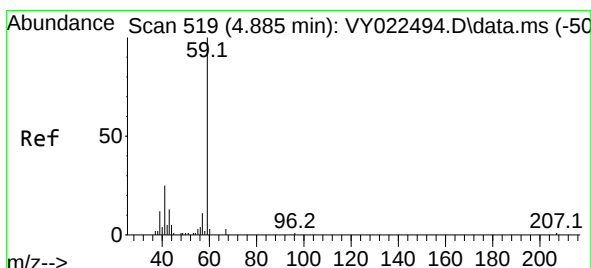
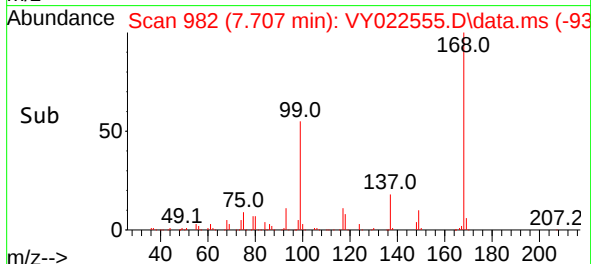
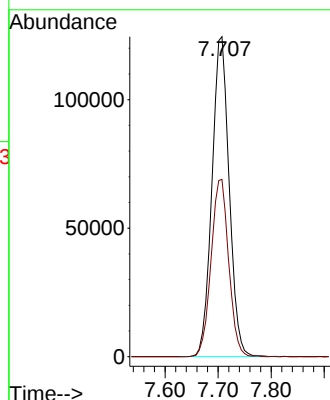
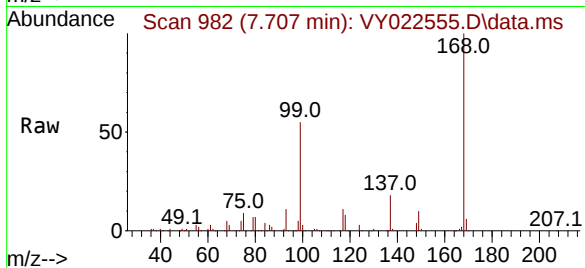
B-187-SB02

Tgt Ion:168 Resp: 280753

Ion Ratio Lower Upper

168 100

99 55.4 44.3 66.5



#11

Tert butyl alcohol

Concen: 2.671 ug/l

RT: 4.866 min Scan# 516

Delta R.T. -0.018 min

Lab File: VY022555.D

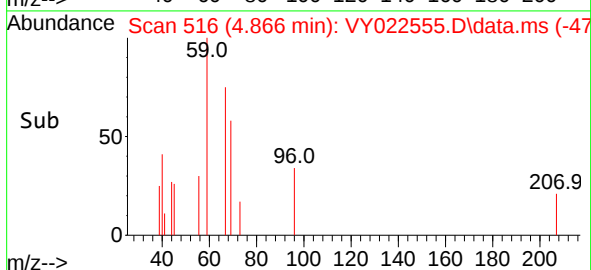
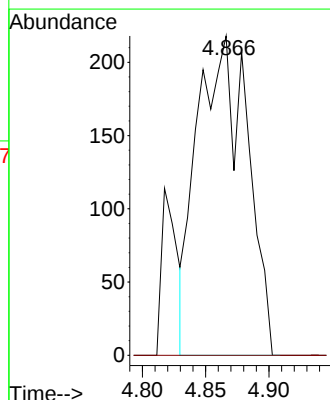
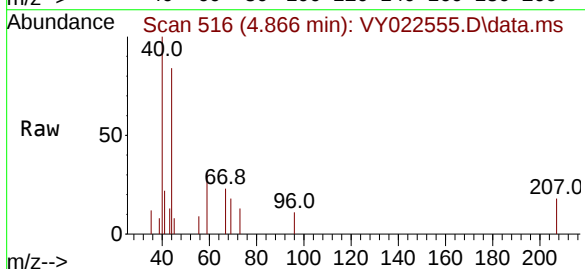
Acq: 04 Jun 2025 16:58

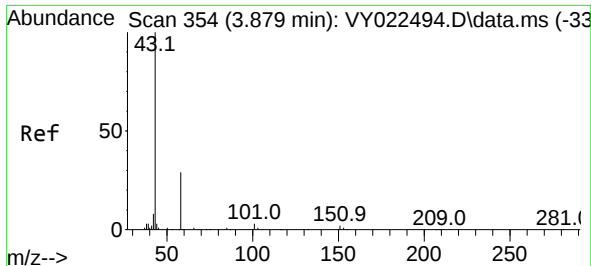
Tgt Ion: 59 Resp: 599

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#

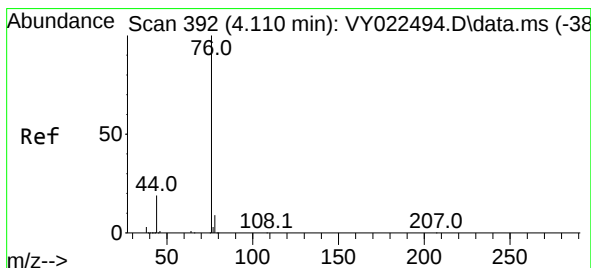
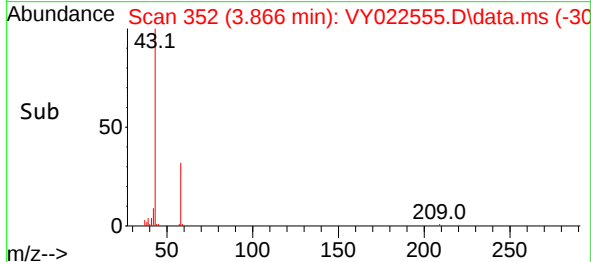
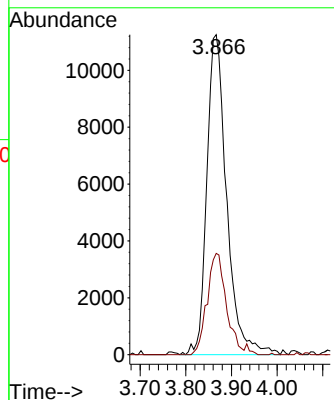
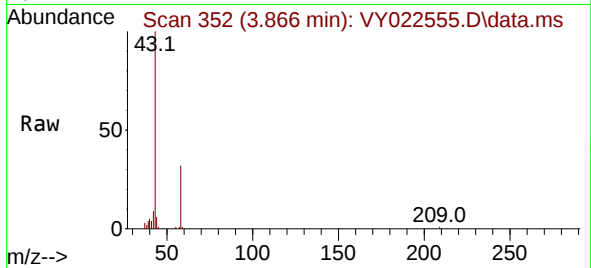




#16
Acetone
Concen: 53.155 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

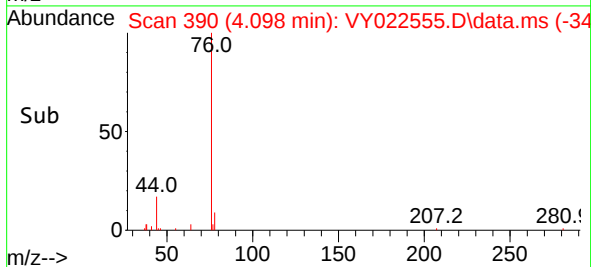
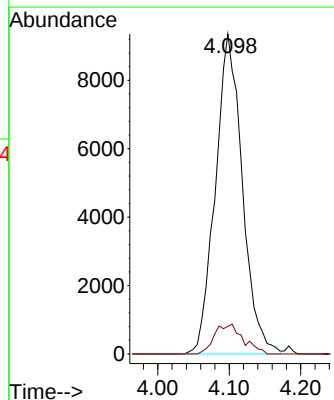
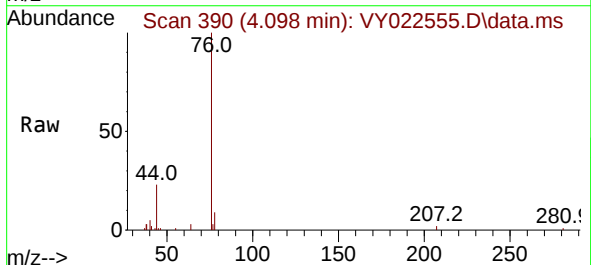
Instrument :
MSVOA_Y
ClientSampleId :
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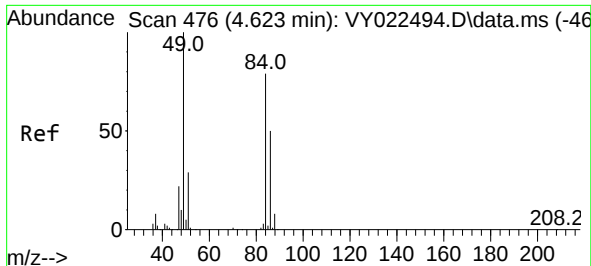
Tgt Ion: 43 Resp: 33897
Ion Ratio Lower Upper
43 100
58 31.6 24.0 36.0



#17
Carbon Disulfide
Concen: 2.598 ug/l
RT: 4.098 min Scan# 390
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 76 Resp: 24493
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.2

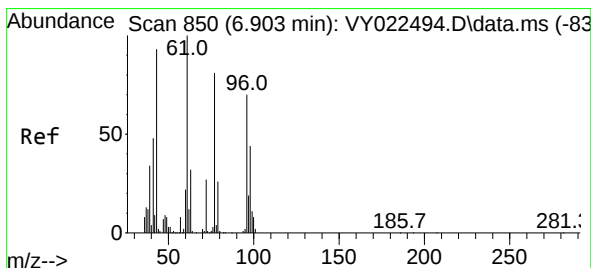
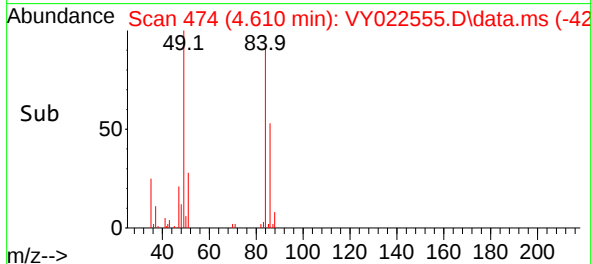
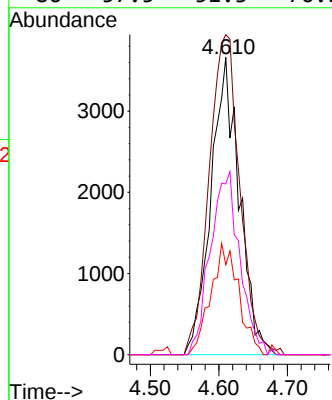
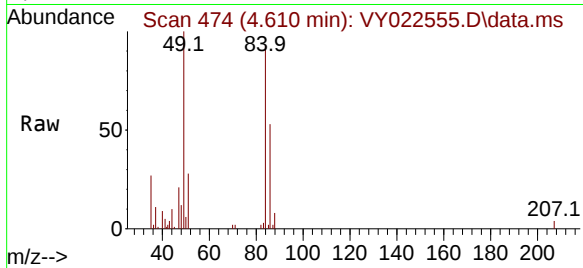




#20
Methylene Chloride
Concen: 2.912 ug/l
RT: 4.610 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

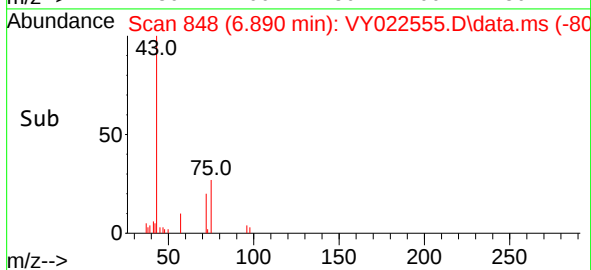
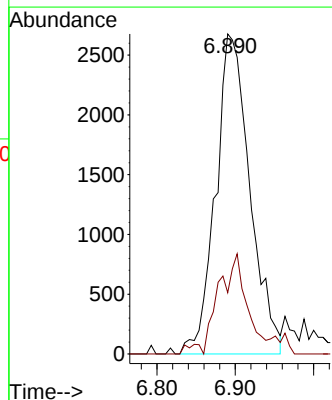
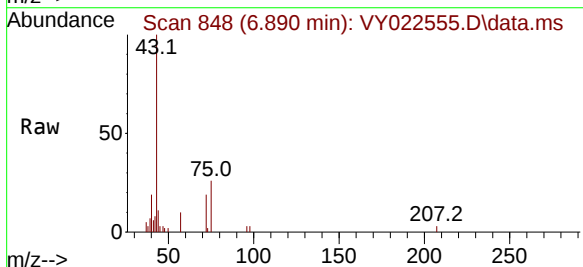
Instrument :
MSVOA_Y
ClientSampleId :
B-187-SB02

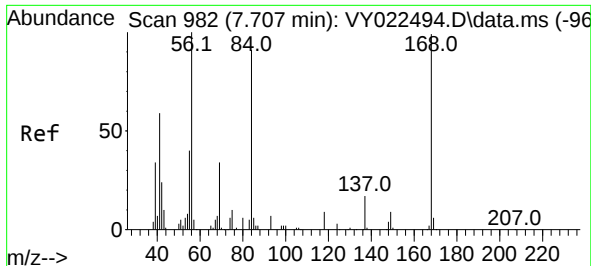
Tgt Ion:	84	Resp:	10548
Ion	Ratio	Lower	Upper
84	100		
49	107.6	101.9	152.9
51	30.3	29.8	44.8
86	57.5	51.3	76.9



#25
2-Butanone
Concen: 8.855 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion:	43	Resp:	8145
Ion	Ratio	Lower	Upper
43	100		
72	19.2	22.9	34.3#

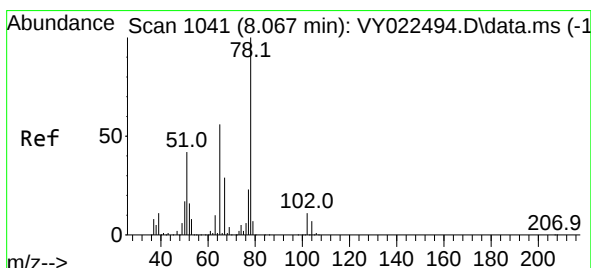
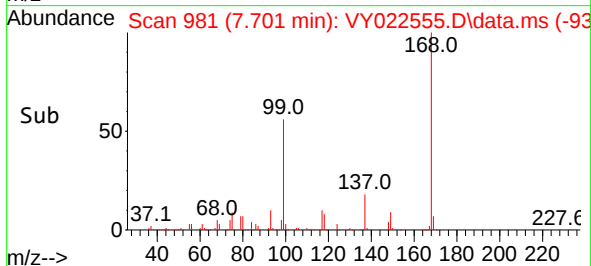
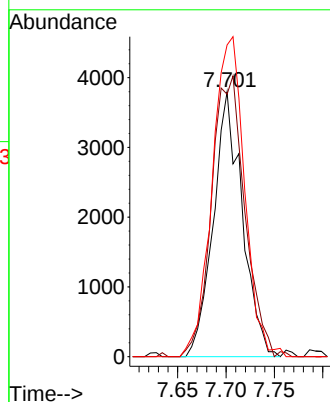
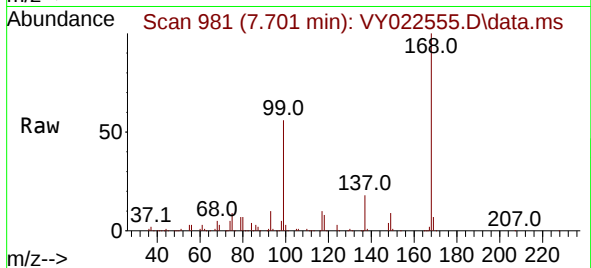




#31
Cyclohexane
Concen: 1.305 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

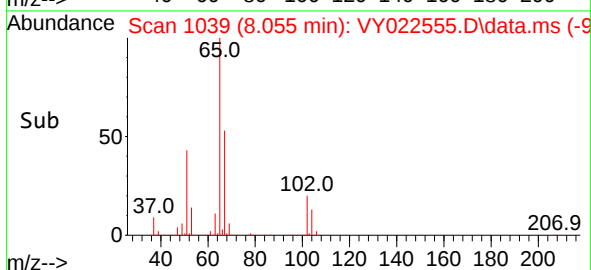
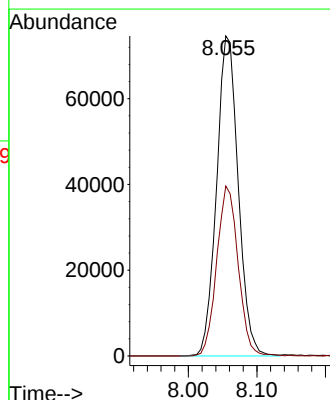
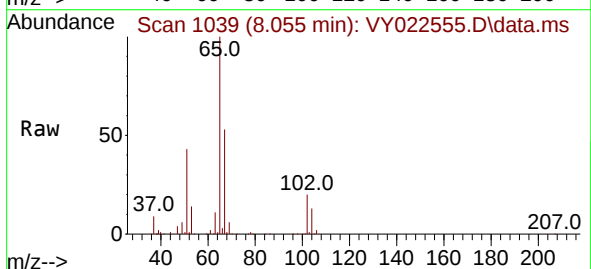
Instrument :
MSVOA_Y
ClientSampleId :
B-187-SB02

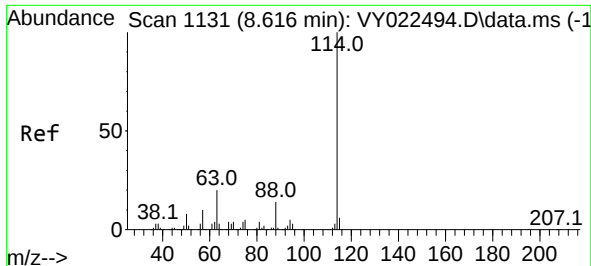
Tgt Ion: 56 Resp: 7873
Ion Ratio Lower Upper
56 100
69 99.1 27.0 40.6#
84 117.7 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 52.052 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 65 Resp: 163448
Ion Ratio Lower Upper
65 100
67 52.6 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022555.D

Acq: 04 Jun 2025 16:58

Instrument :

MSVOA_Y

ClientSampleId :

B-187-SB02

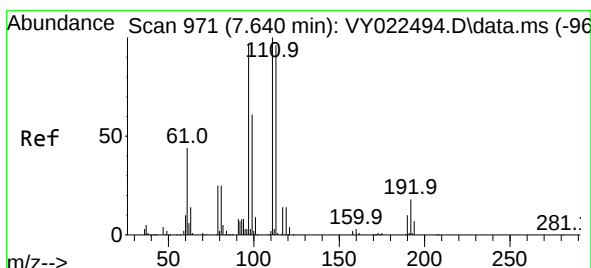
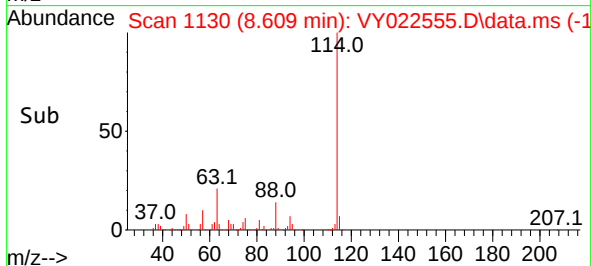
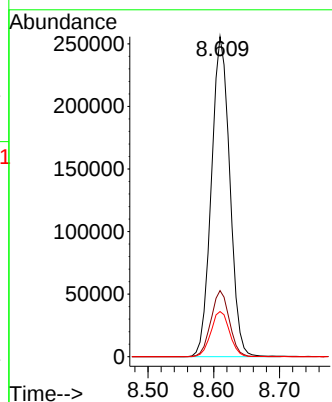
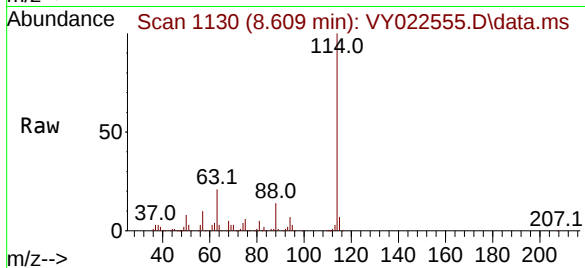
Tgt Ion:114 Resp: 497958

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 14.1 0.0 27.8



#35

Dibromofluoromethane

Concen: 52.117 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022555.D

Acq: 04 Jun 2025 16:58

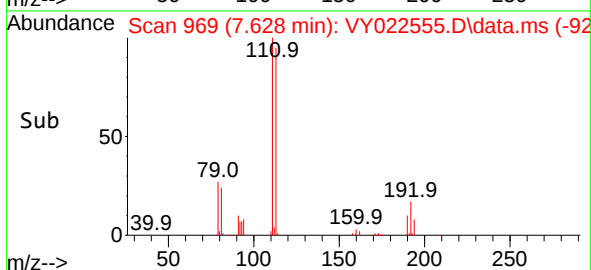
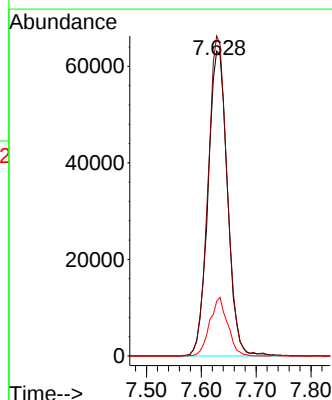
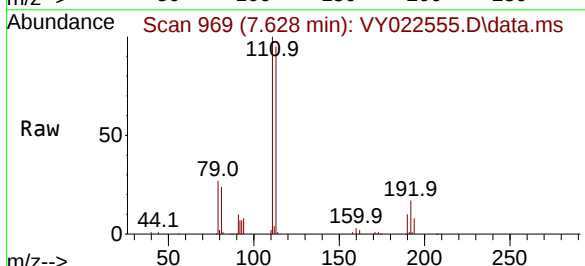
Tgt Ion:113 Resp: 154902

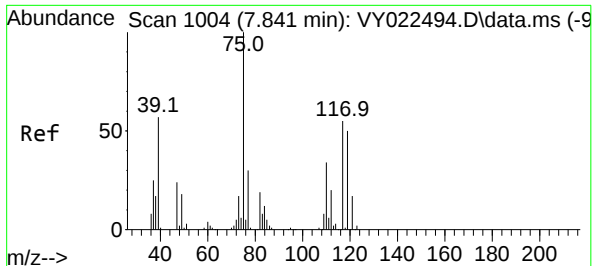
Ion Ratio Lower Upper

113 100

111 103.3 81.1 121.7

192 17.7 14.2 21.2

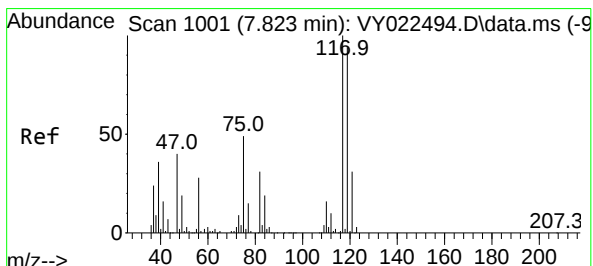
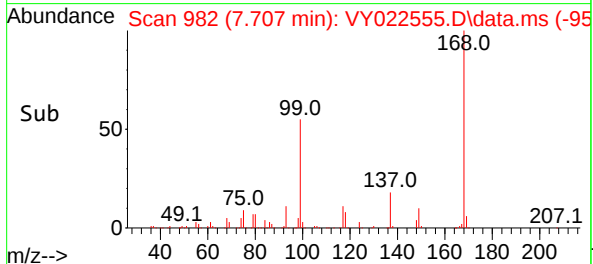
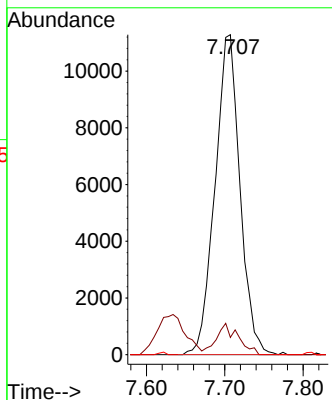
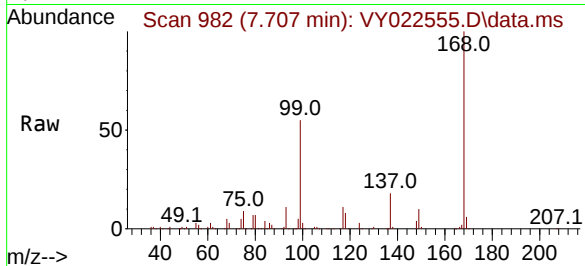




#36
 1,1-Dichloropropene
 Concen: 5.175 ug/l
 RT: 7.707 min Scan# 91
 Delta R.T. -0.134 min
 Lab File: VY022555.D
 Acq: 04 Jun 2025 16:58

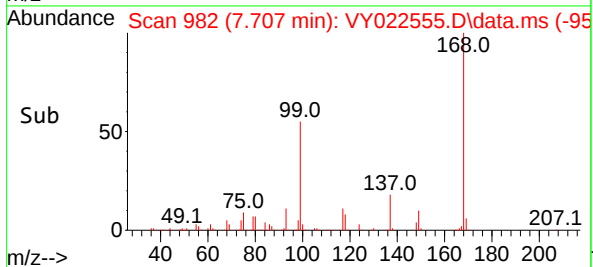
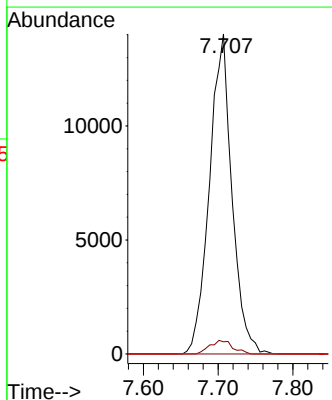
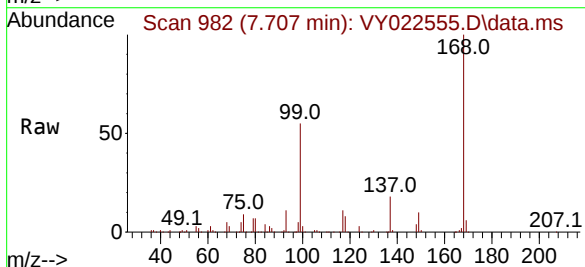
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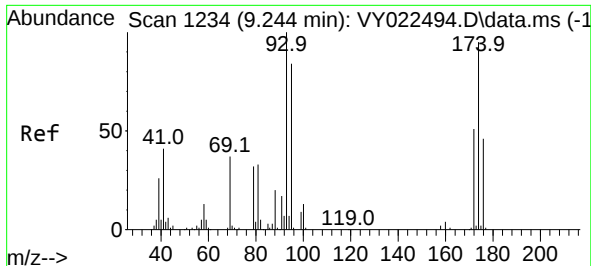
Tgt Ion: 75 Resp: 24963
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.9 50.7#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 5.931 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.116 min
 Lab File: VY022555.D
 Acq: 04 Jun 2025 16:58

Tgt Ion: 117 Resp: 29352
 Ion Ratio Lower Upper
 117 100
 119 3.8 75.0 112.6#
 121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 1.159 ug/l

RT: 9.201 min Scan# 1

Delta R.T. -0.043 min

Lab File: VY022555.D

Acq: 04 Jun 2025 16:58

Instrument :

MSVOA_Y

ClientSampleId :

B-187-SB02

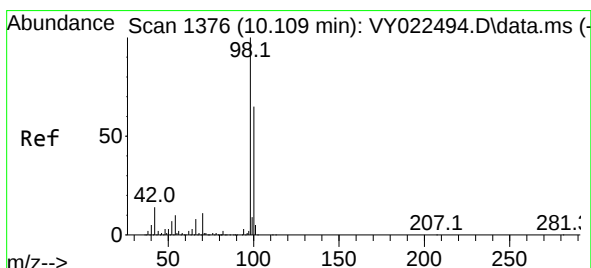
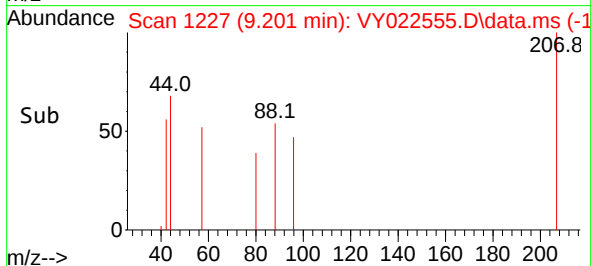
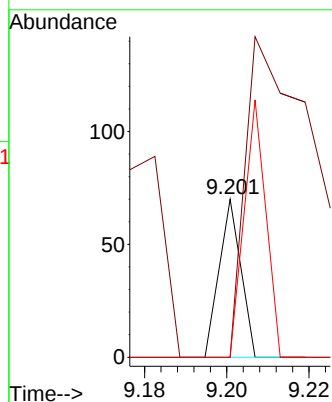
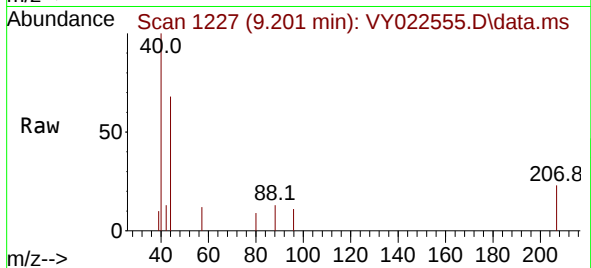
Tgt Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 0.0 25.4 38.2#

58 161.5 54.9 82.3#



#50

Toluene-d8

Concen: 49.663 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022555.D

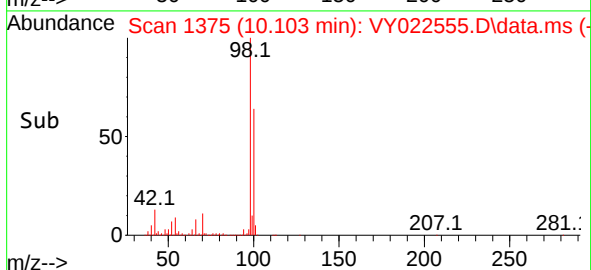
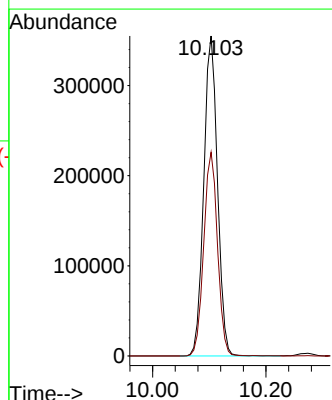
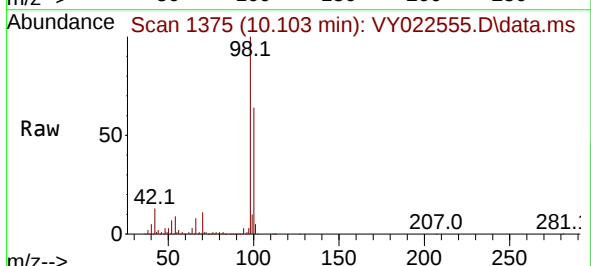
Acq: 04 Jun 2025 16:58

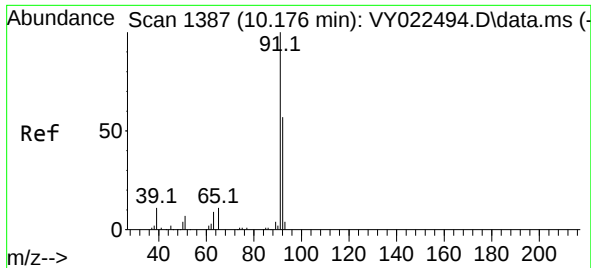
Tgt Ion: 98 Resp: 596438

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.0

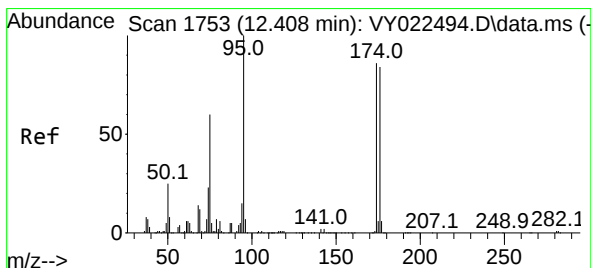
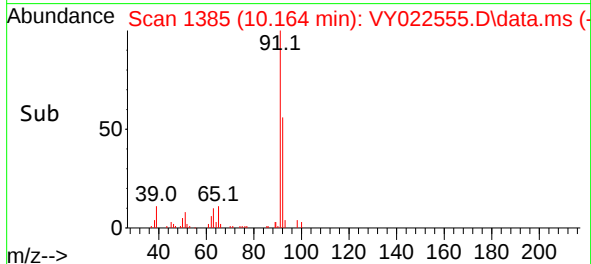
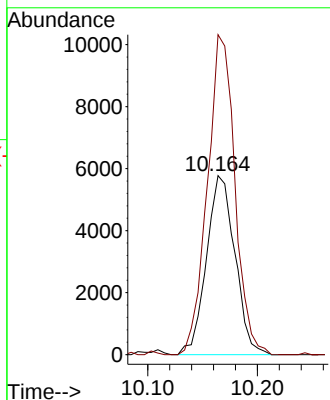
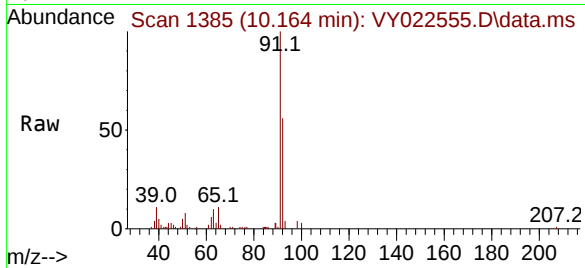




#52
Toluene
Concen: 1.166 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.012 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

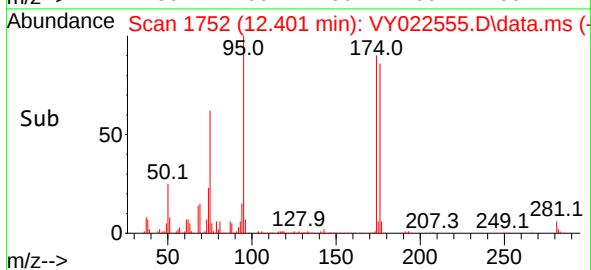
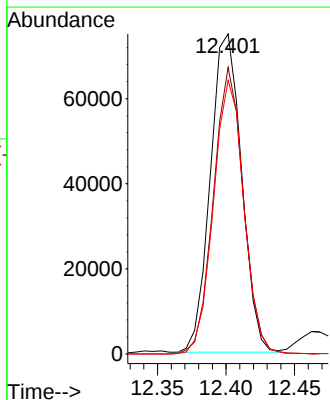
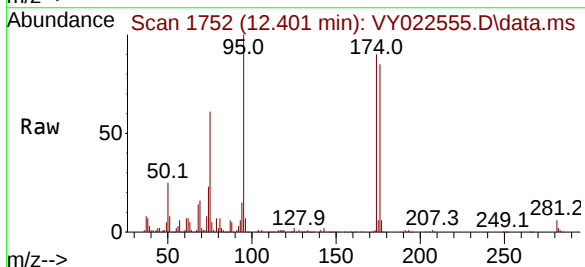
Instrument :
MSVOA_Y
ClientSampleId :
B-187-SB02

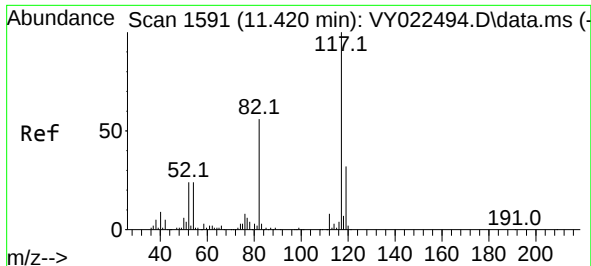
Tgt Ion: 92 Resp: 10437
Ion Ratio Lower Upper
92 100
91 172.7 139.0 208.4



#62
4-Bromofluorobenzene
Concen: 33.105 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 95 Resp: 118458
Ion Ratio Lower Upper
95 100
174 86.3 0.0 170.0
176 83.9 0.0 166.2

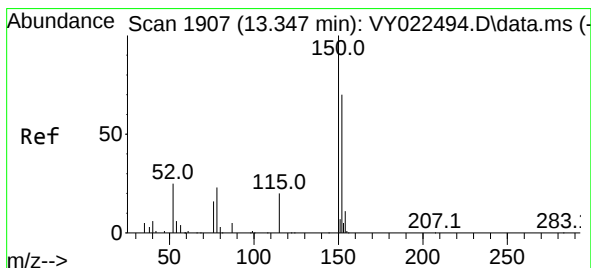
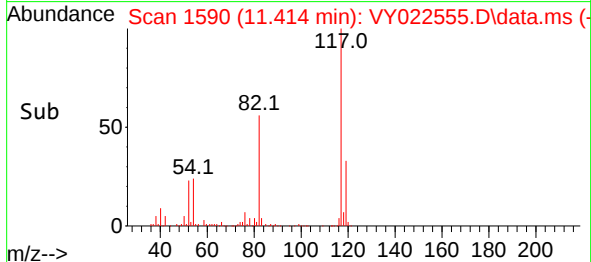
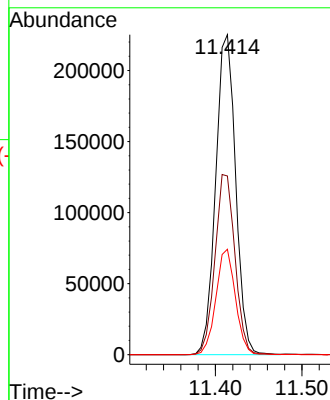
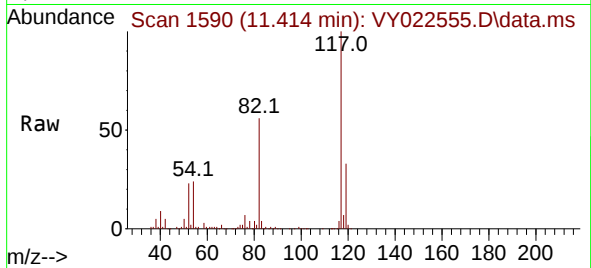




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

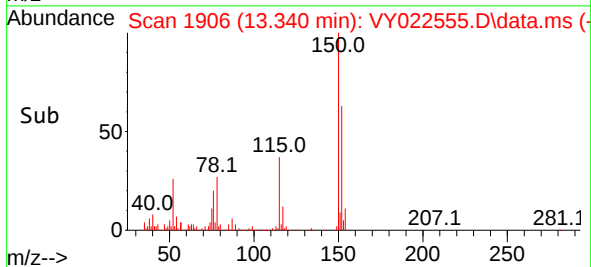
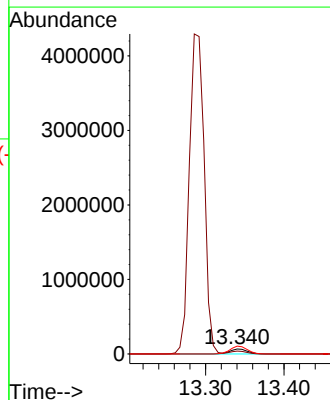
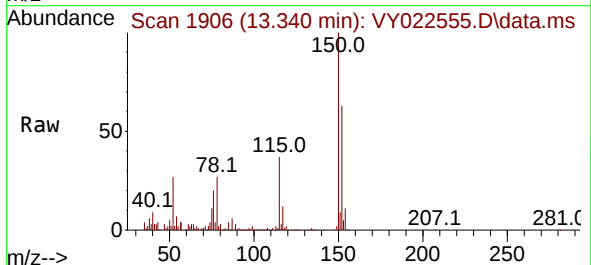
Instrument :
MSVOA_Y
ClientSampleId :
B-187-SB02

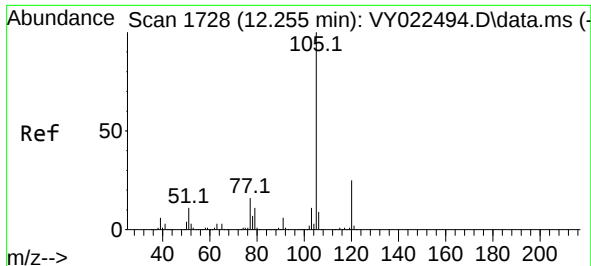
Tgt Ion:117 Resp: 360175
Ion Ratio Lower Upper
117 100
82 55.9 44.6 66.8
119 33.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion:152 Resp: 103121
Ion Ratio Lower Upper
152 100
115 0.0 28.9 86.7#
150 154.6 0.0 349.6

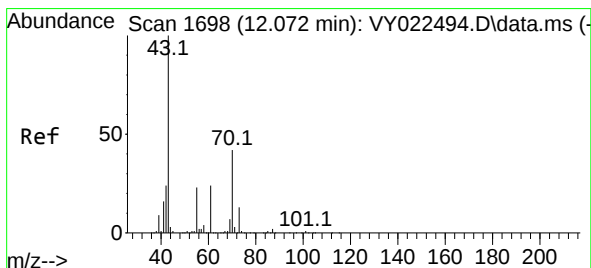
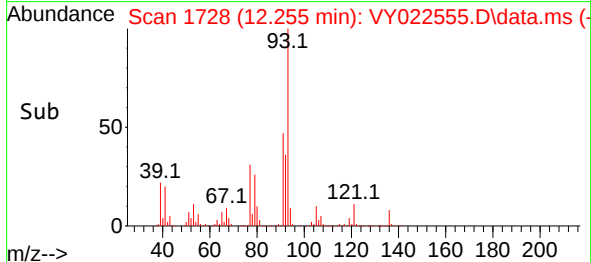
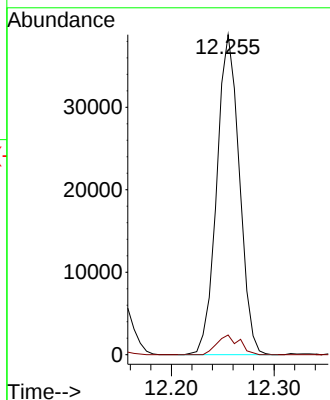
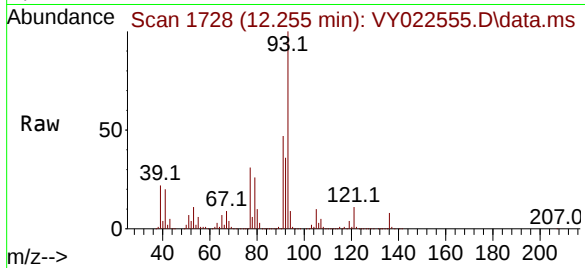




#73
Isopropylbenzene
Concen: 6.993 ug/l
RT: 12.255 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

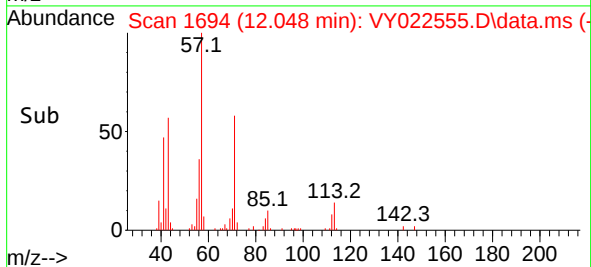
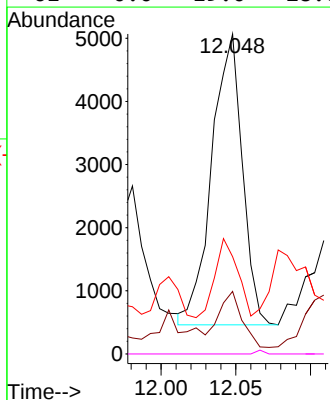
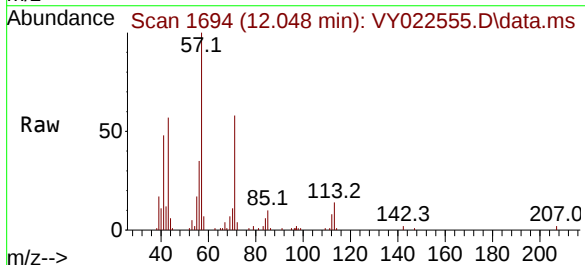
Instrument :
MSVOA_Y
ClientSampleId :
B-187-SB02

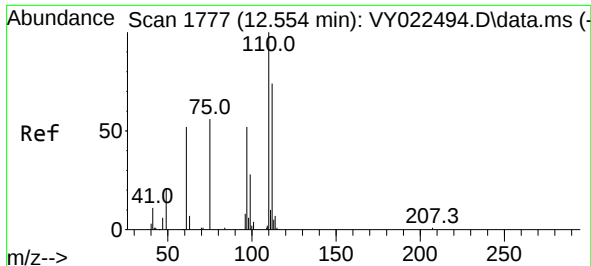
Tgt Ion:105 Resp: 59201
Ion Ratio Lower Upper
105 100
120 6.1 13.0 38.9#



#74
N-ethyl acetate
Concen: 3.056 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.025 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 43 Resp: 6528
Ion Ratio Lower Upper
43 100
70 14.6 34.2 51.2#
55 19.9 18.2 27.4
61 0.0 19.0 28.6#

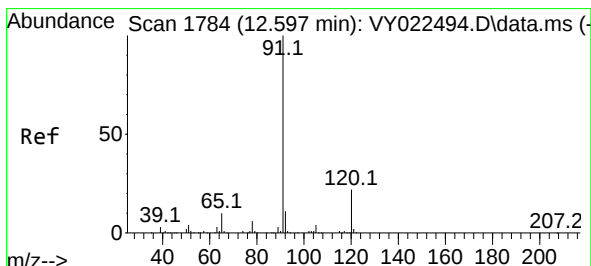
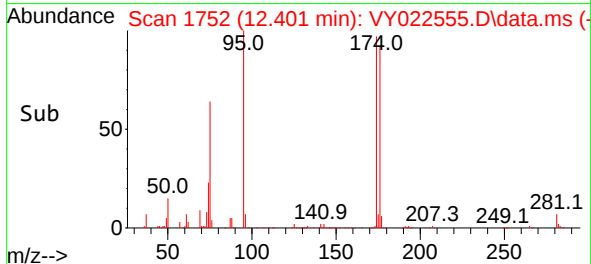
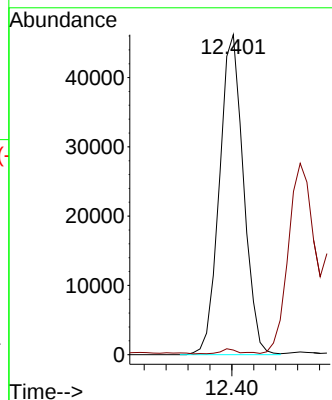
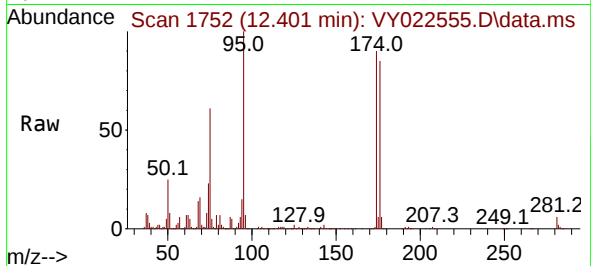




#76
1,2,3-Trichloropropane
Concen: 59.716 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

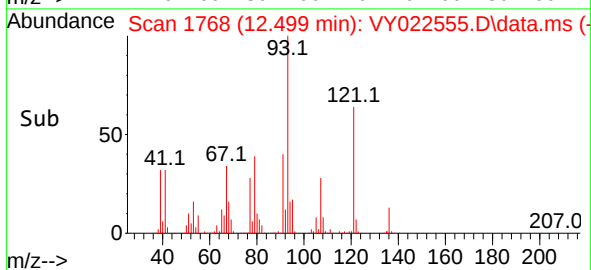
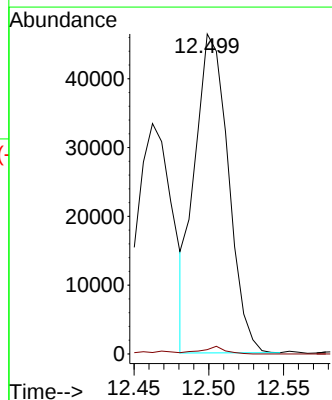
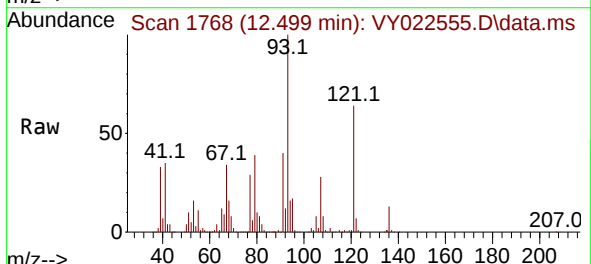
Instrument :
MSVOA_Y
ClientSampleId :
B-187-SB02

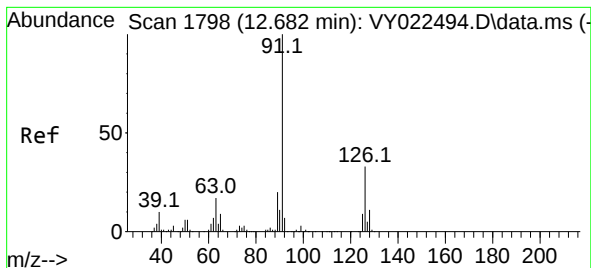
Tgt Ion: 75 Resp: 70449
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 6.989 ug/l
RT: 12.499 min Scan# 1768
Delta R.T. -0.098 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 91 Resp: 72268
Ion Ratio Lower Upper
91 100
120 1.6 10.8 32.4#

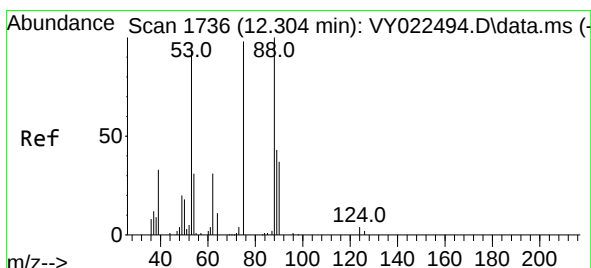
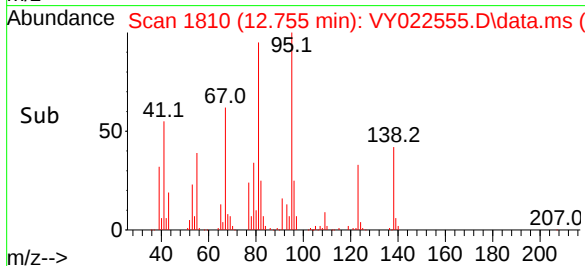
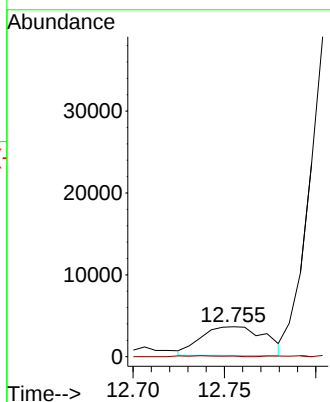
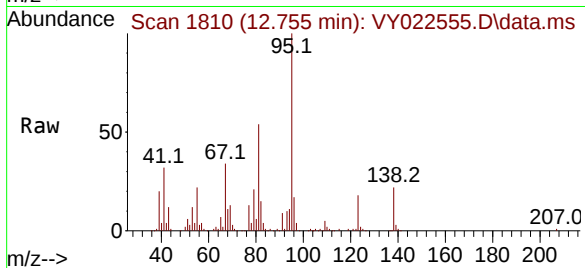




#79
2-Chlorotoluene
Concen: 1.552 ug/l
RT: 12.755 min Scan# 1810
Delta R.T. 0.073 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

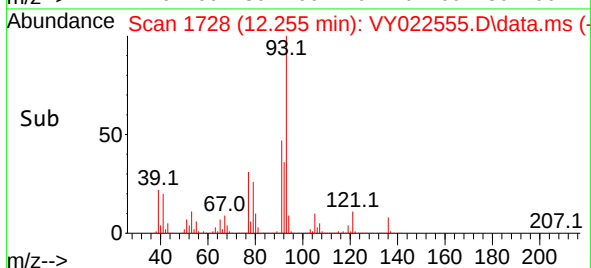
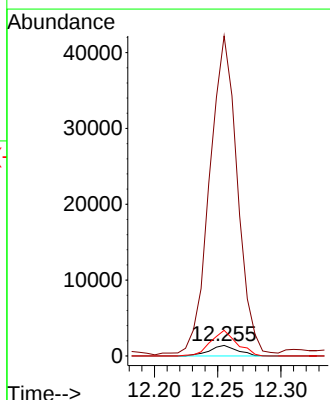
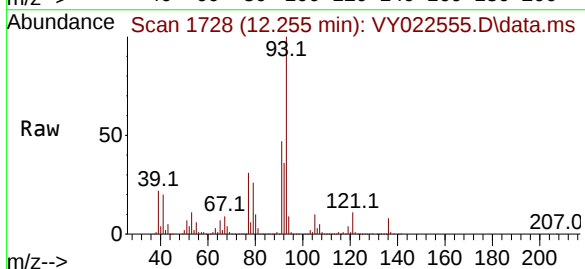
Instrument :
MSVOA_Y
ClientSampleId :
B-187-SB02

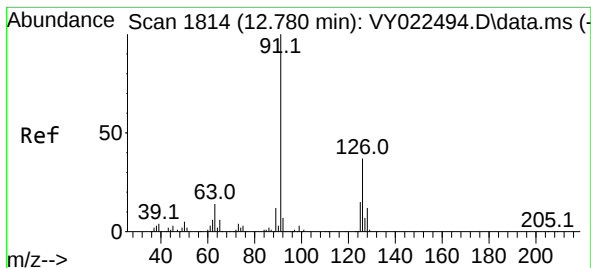
Tgt Ion: 91 Resp: 8508
Ion Ratio Lower Upper
91 100
126 2.1 17.0 51.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 4.356 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. -0.049 min
Lab File: VY022555.D
Acq: 04 Jun 2025 16:58

Tgt Ion: 75 Resp: 2128
Ion Ratio Lower Upper
75 100
53 3024.5 78.5 117.7#
89 228.7 35.7 53.5#





#82

4-Chlorotoluene

Concen: 1.505 ug/l

RT: 12.755 min Scan# 1810

Delta R.T. -0.025 min

Lab File: VY022555.D

Acq: 04 Jun 2025 16:58

Instrument :

MSVOA_Y

ClientSampleId :

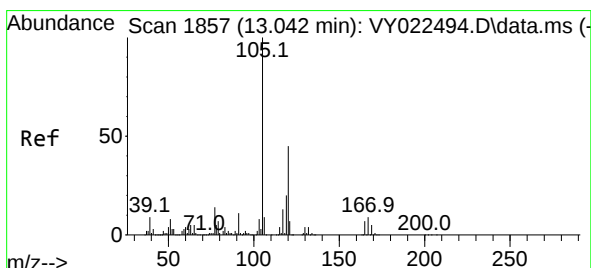
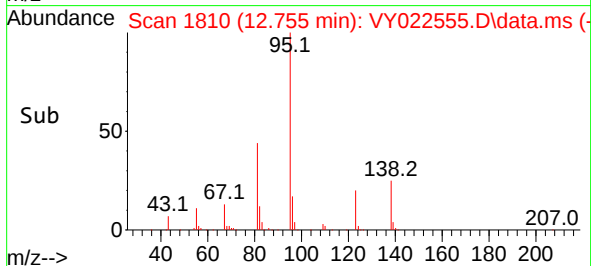
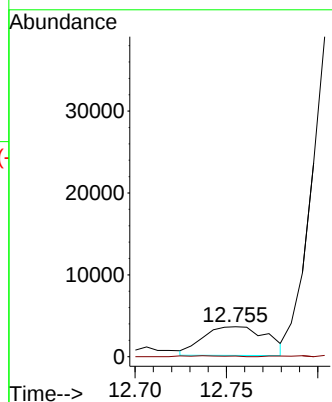
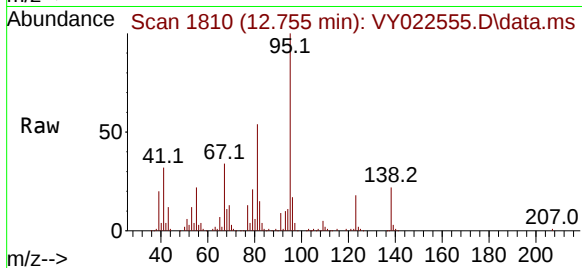
B-187-SB02

Tgt Ion: 91 Resp: 8508

Ion Ratio Lower Upper

91 100

126 2.1 17.0 50.9#



#84

1,2,4-Trimethylbenzene

Concen: 420.590 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. 0.244 min

Lab File: VY022555.D

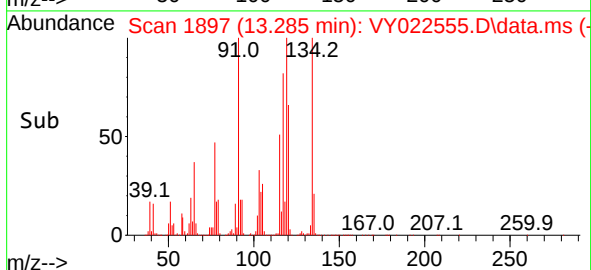
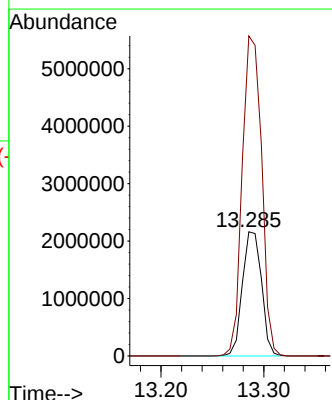
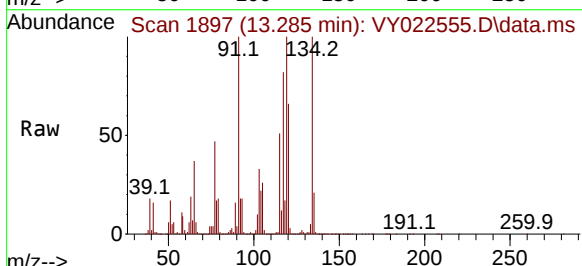
Acq: 04 Jun 2025 16:58

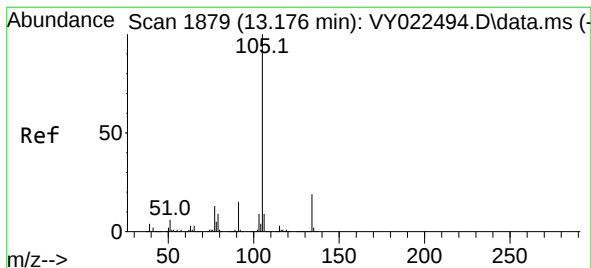
Tgt Ion: 105 Resp: 2796023

Ion Ratio Lower Upper

105 100

120 262.1 22.7 68.1#





#85

sec-Butylbenzene

Concen: 306.071 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. 0.110 min

Lab File: VY022555.D

Acq: 04 Jun 2025 16:58

Instrument :

MSVOA_Y

ClientSampleId :

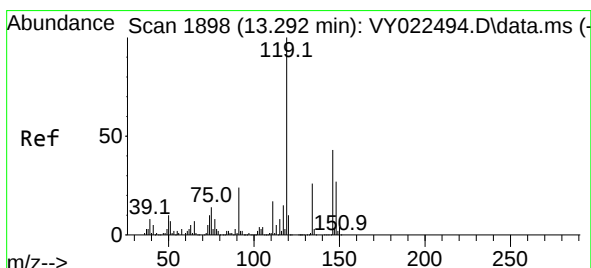
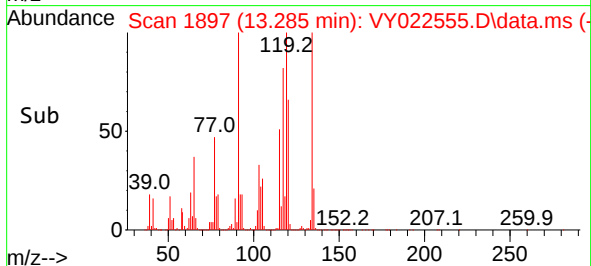
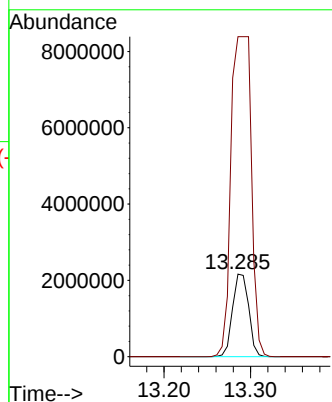
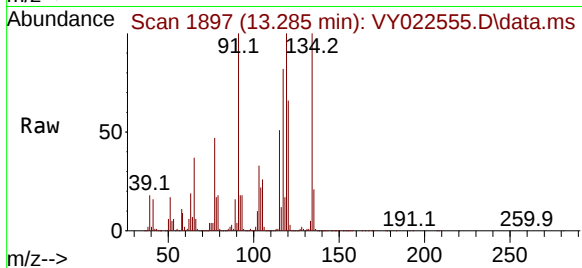
B-187-SB02

Tgt Ion:105 Resp: 2796414

Ion Ratio Lower Upper

105 100

134 489.2 9.7 28.9#



#86

p-Isopropyltoluene

Concen: 2435.321 ug/l

RT: 13.279 min Scan# 1896

Delta R.T. -0.012 min

Lab File: VY022555.D

Acq: 04 Jun 2025 16:58

Tgt Ion:119 Resp:18340407

Ion Ratio Lower Upper

119 100

134 74.6 13.1 39.1#

91 71.5 11.6 34.8#

