

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030725\
 Data File : VY021456.D
 Acq On : 07 Mar 2025 13:18
 Operator : SY/MD
 Sample : Q1479-02
 Misc : 6.31g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DSP2

Quant Time: Mar 07 22:00:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

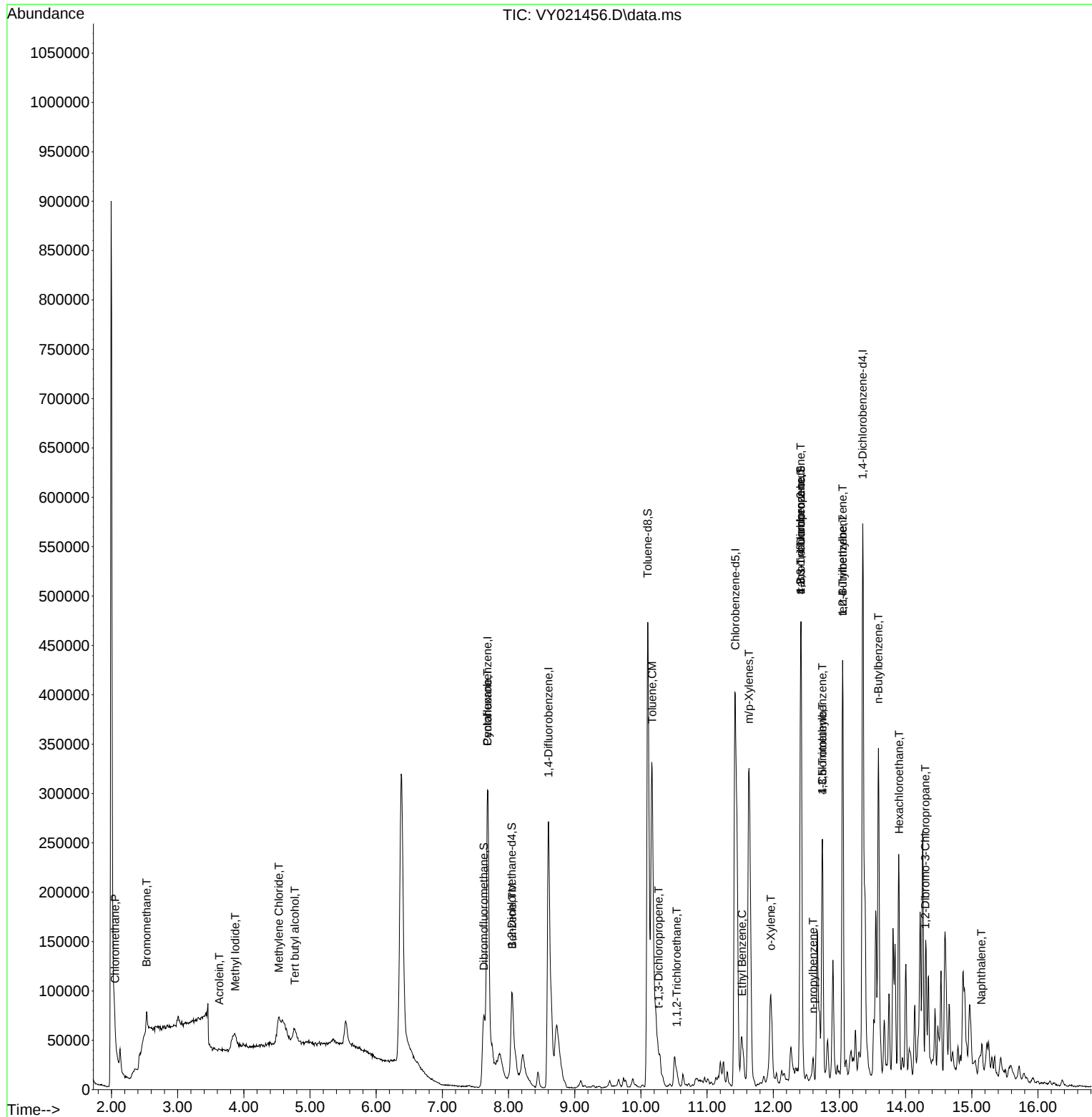
Internal Standards						
1) Pentafluorobenzene	7.683	168	287820	50.000	ug/l	-0.03
34) 1,4-Difluorobenzene	8.603	114	368413	50.000	ug/l	-0.02
63) Chlorobenzene-d5	11.426	117	399863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	147292	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.049	65	98787	32.473	ug/l	-0.02
Spiked Amount 50.000	Range 50 - 163		Recovery =	64.940%		
35) Dibromofluoromethane	7.628	113	87414	36.097	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	72.200%		
50) Toluene-d8	10.103	98	425894	46.449	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.900%		
62) 4-Bromofluorobenzene	12.414	95	161622	51.820	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	103.640%		
Target Compounds						Qvalue
3) Chloromethane	2.056	50	8330	2.237	ug/l	91
5) Bromomethane	2.531	94	10583	3.598	ug/l	99
10) Methyl Iodide	3.873	142	17605	5.341	ug/l	99
11) Tert butyl alcohol	4.769	59	16643	67.714	ug/l #	76
13) Acrolein	3.629	56	294	1.900	ug/l #	64
20) Methylene Chloride	4.531	84	16371	4.700	ug/l	89
31) Cyclohexane	7.683	56	7641	1.341	ug/l #	22
40) Benzene	8.055	78	37754	3.381	ug/l	97
52) Toluene	10.170	92	97709	13.879	ug/l	100
53) t-1,3-Dichloropropene	10.268	75	11193	3.235	ug/l #	57
55) 1,1,2-Trichloroethane	10.542	97	2380	1.230	ug/l #	27
67) Ethyl Benzene	11.530	91	45890	2.769	ug/l	96
68) m/p-Xylenes	11.633	106	146257	23.244	ug/l	98
69) o-Xylene	11.963	106	32895	5.672	ug/l	100
76) 1,2,3-Trichloropropane	12.414	75	86481	58.266	ug/l #	100
78) n-propylbenzene	12.603	91	21286	1.511	ug/l	96
80) 1,3,5-Trimethylbenzene	12.743	105	134024	14.214	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.414	75	86481	132.457	ug/l #	9
82) 4-Chlorotoluene	12.743	91	14411	1.727	ug/l #	41
83) tert-Butylbenzene	13.048	119	30385	3.612	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.048	105	244921	26.162	ug/l	99
89) n-Butylbenzene	13.590	91	24148	2.536	ug/l #	1
90) Hexachloroethane	13.901	117	10182	4.629	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.297	75	342	1.115	ug/l #	1
95) Naphthalene	15.145	128	9527	3.827	ug/l	97

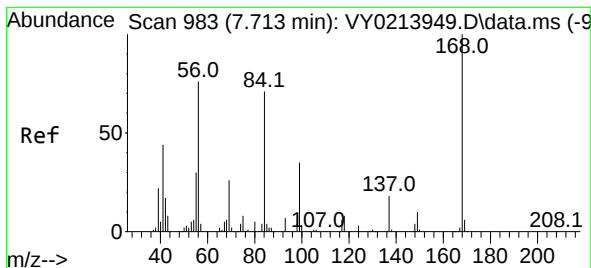
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.683 min Scan# 91

Delta R.T. -0.030 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

Instrument :

MSVOA_Y

ClientSampleId :

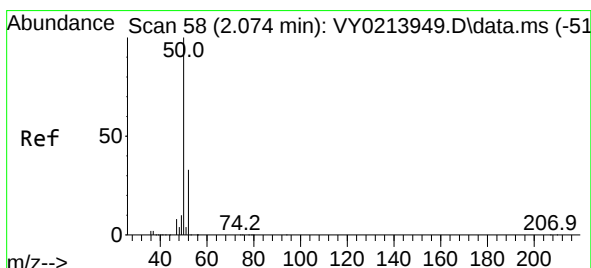
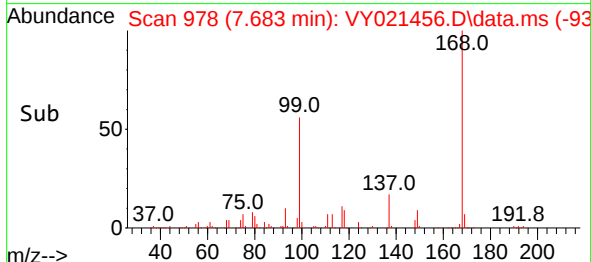
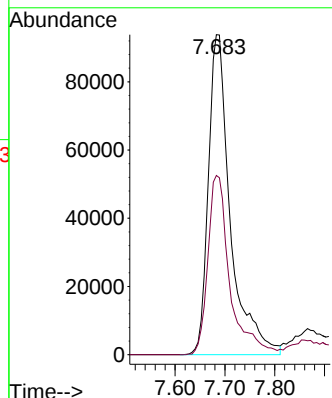
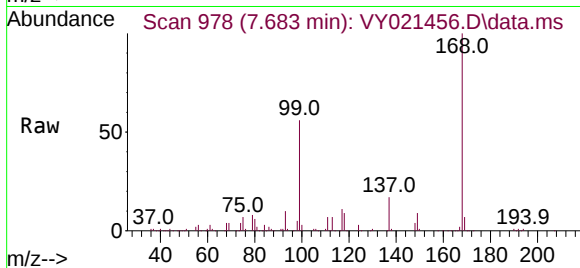
DSP2

Tgt Ion:168 Resp: 287820

Ion Ratio Lower Upper

168 100

99 56.0 46.0 69.0



#3

Chloromethane

Concen: 2.237 ug/l

RT: 2.056 min Scan# 55

Delta R.T. -0.018 min

Lab File: VY021456.D

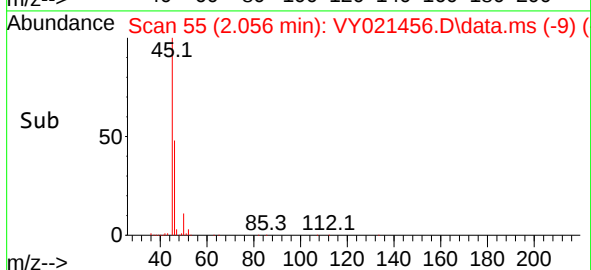
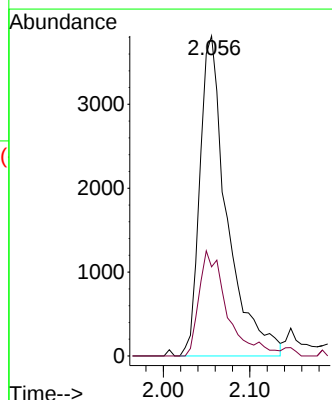
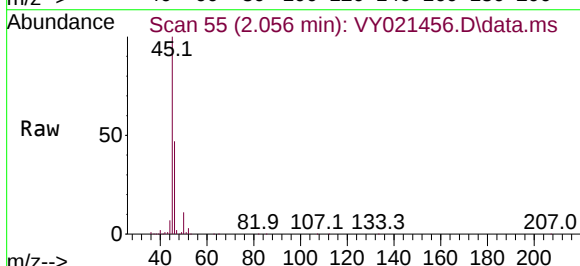
Acq: 07 Mar 2025 13:18

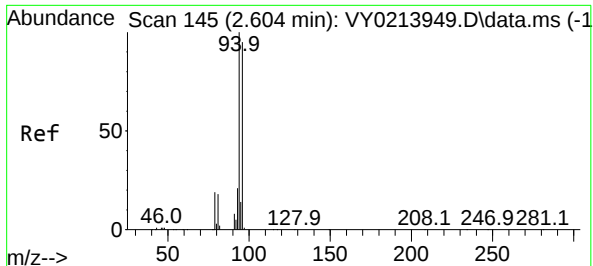
Tgt Ion: 50 Resp: 8330

Ion Ratio Lower Upper

50 100

52 27.8 26.2 39.2

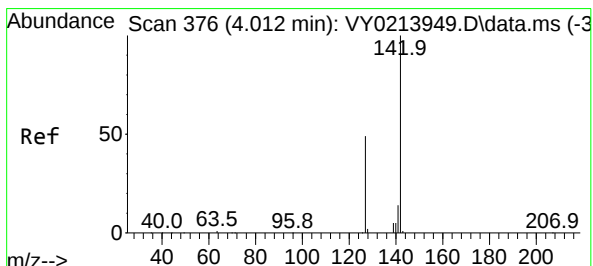
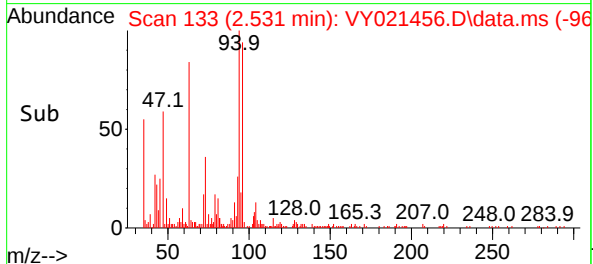
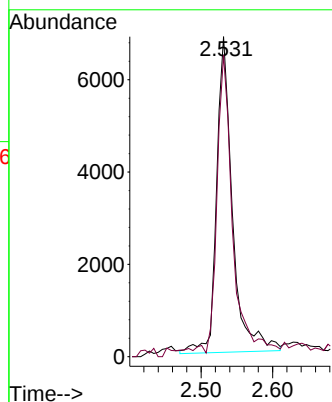
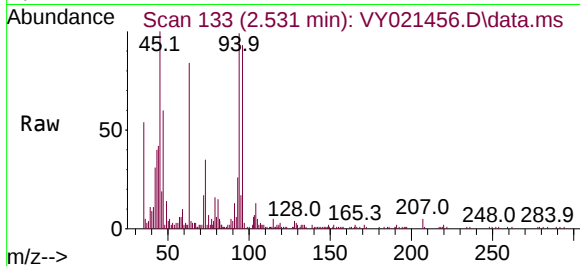




#5
Bromomethane
Concen: 3.598 ug/l
RT: 2.531 min Scan# 11
Delta R.T. -0.073 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

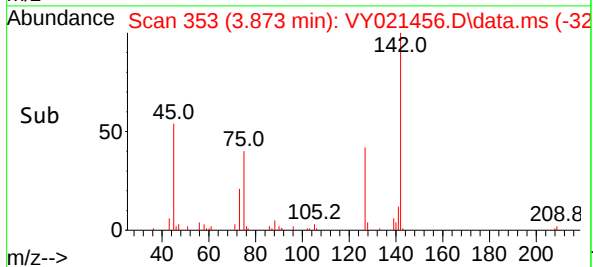
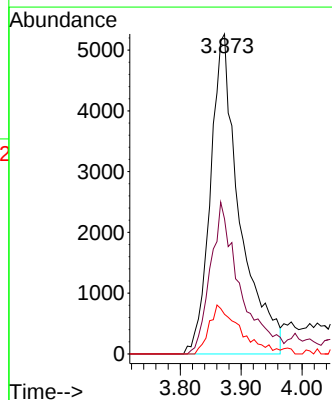
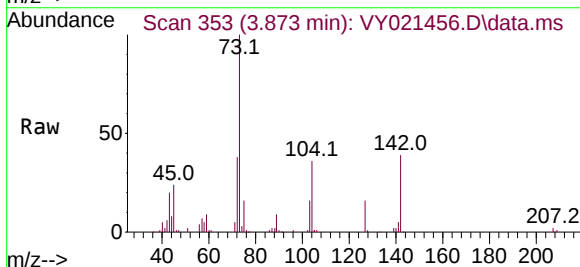
Instrument :
MSVOA_Y
ClientSampleId :
DSP2

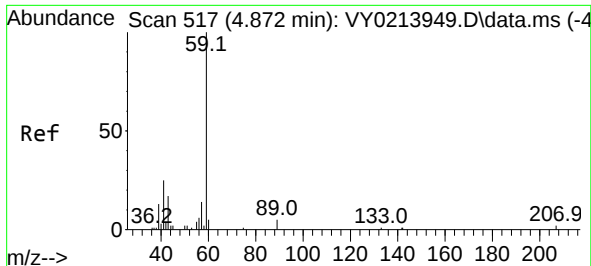
Tgt Ion: 94 Resp: 10583
Ion Ratio Lower Upper
94 100
96 94.0 76.3 114.5



#10
Methyl Iodide
Concen: 5.341 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.140 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 142 Resp: 17605
Ion Ratio Lower Upper
142 100
127 48.4 39.1 58.7
141 16.1 11.8 17.6

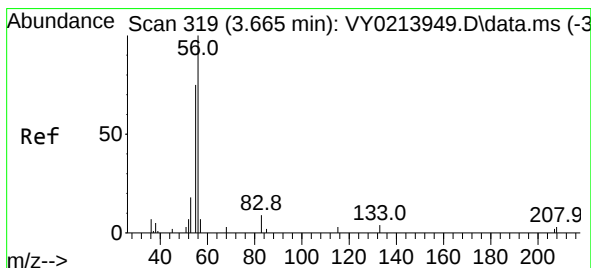
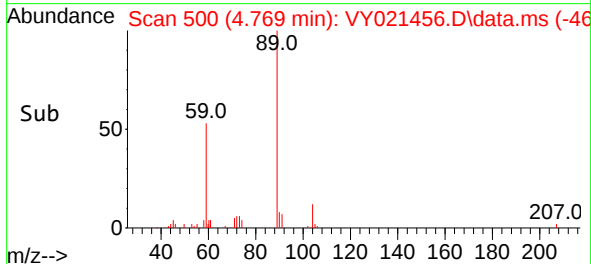
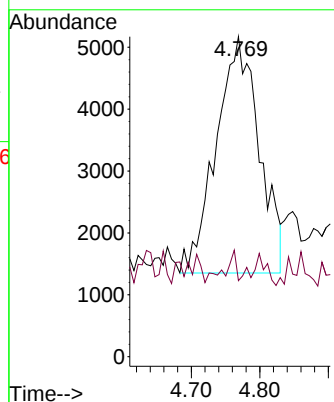
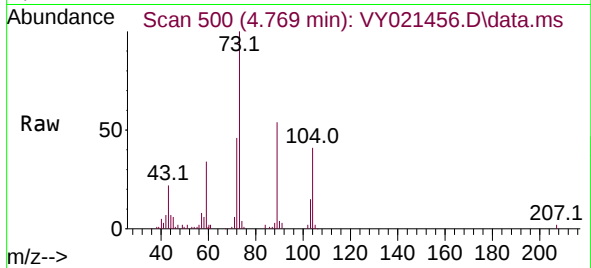




#11
Tert butyl alcohol
Concen: 67.714 ug/l
RT: 4.769 min Scan# 517
Delta R.T. -0.103 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

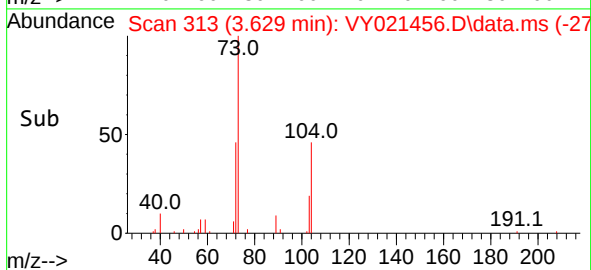
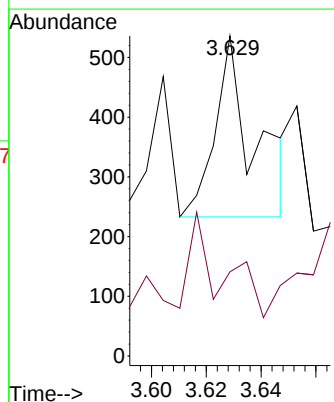
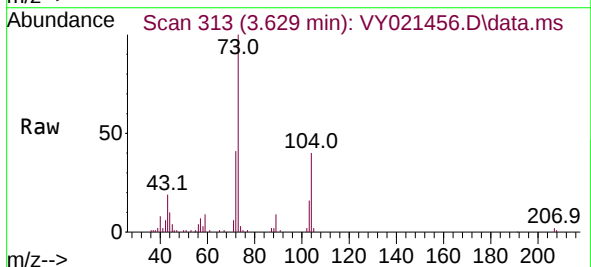
Instrument :
MSVOA_Y
ClientSampleId :
DSP2

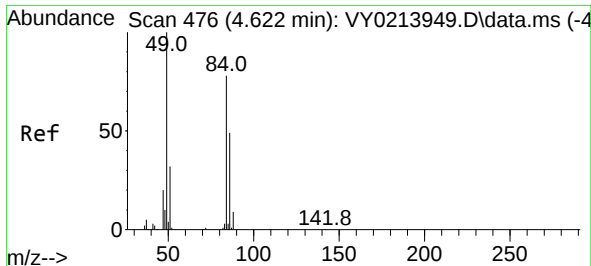
Tgt Ion: 59 Resp: 16643
Ion Ratio Lower Upper
59 100
57 1.4 8.2 12.4#



#13
Acrolein
Concen: 1.900 ug/l
RT: 3.629 min Scan# 313
Delta R.T. -0.036 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 56 Resp: 294
Ion Ratio Lower Upper
56 100
55 47.3 63.4 95.2#



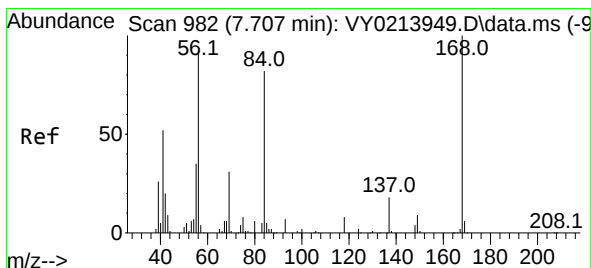
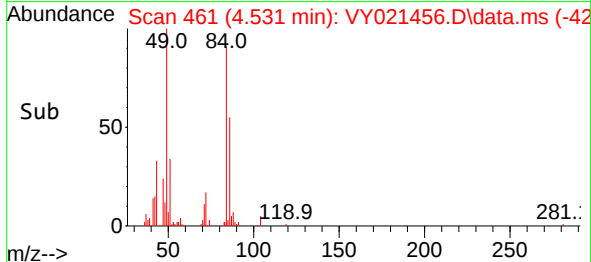
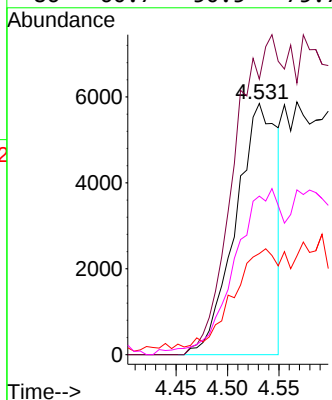
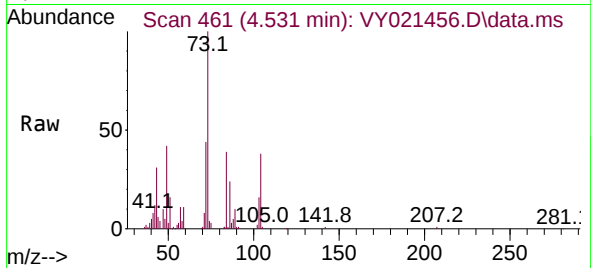


#20
Methylene Chloride
Concen: 4.700 ug/l
RT: 4.531 min Scan# 41
Delta R.T. -0.091 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Instrument :
MSVOA_Y
ClientSampleId :
DSP2

Tgt Ion: 84 Resp: 16371

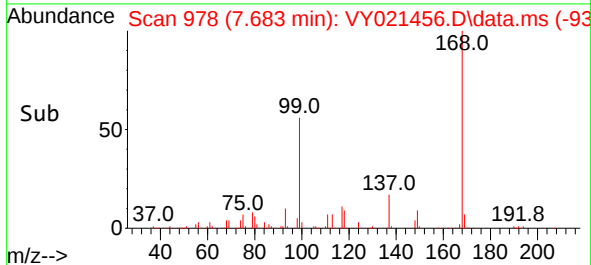
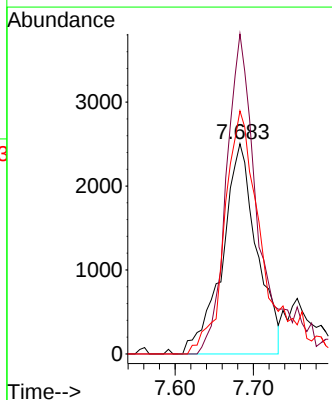
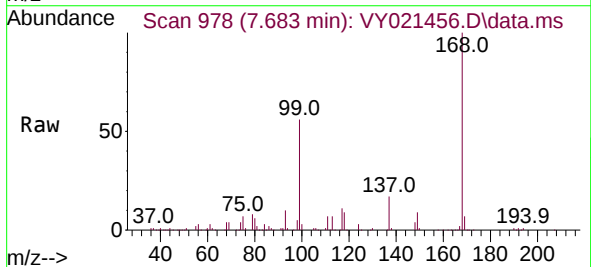
Ion	Ratio	Lower	Upper
84	100		
49	109.7	102.0	153.0
51	36.0	33.0	49.6
86	60.7	50.5	75.7

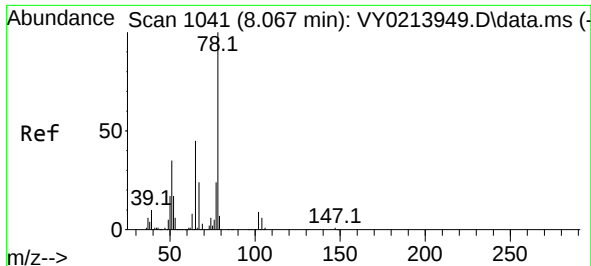


#31
Cyclohexane
Concen: 1.341 ug/l
RT: 7.683 min Scan# 978
Delta R.T. -0.024 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 56 Resp: 7641

Ion	Ratio	Lower	Upper
56	100		
69	152.2	27.0	40.4#
84	115.6	71.1	106.7#





#33

1,2-Dichloroethane-d4

Concen: 32.473 ug/l

RT: 8.049 min Scan# 110

Delta R.T. -0.018 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

Instrument :

MSVOA_Y

ClientSampleId :

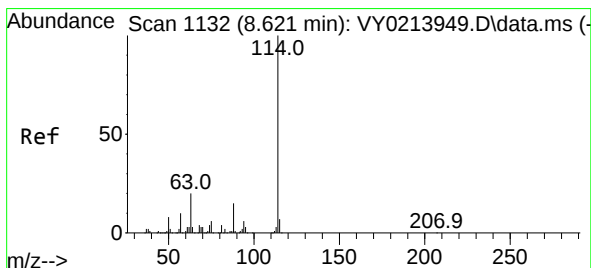
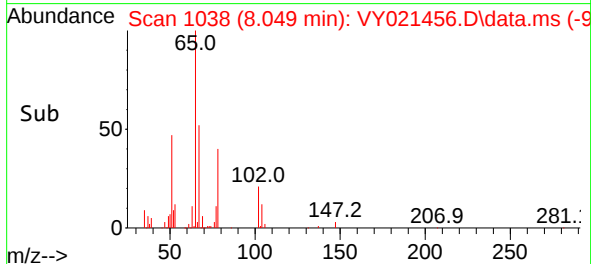
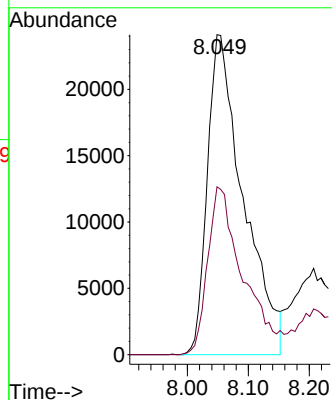
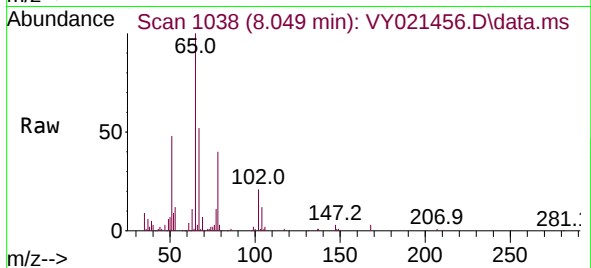
DSP2

Tgt Ion: 65 Resp: 98787

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.603 min Scan# 1129

Delta R.T. -0.018 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

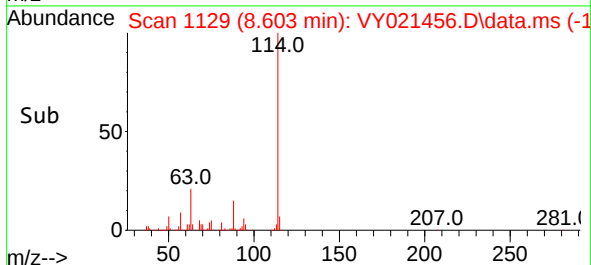
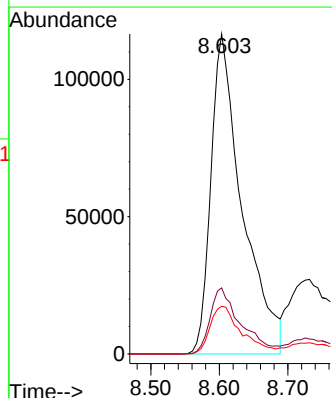
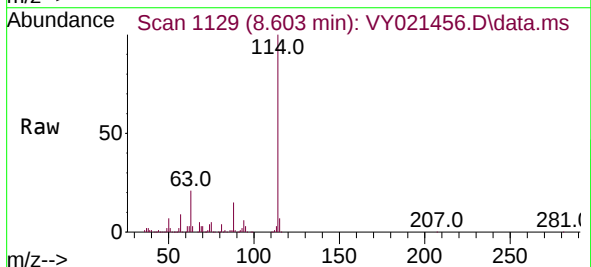
Tgt Ion: 114 Resp: 368413

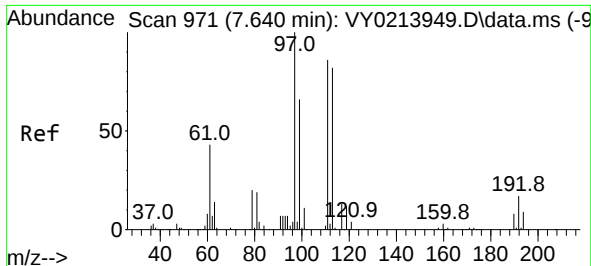
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 14.9 0.0 30.8

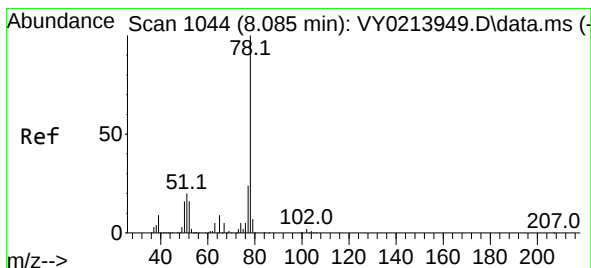
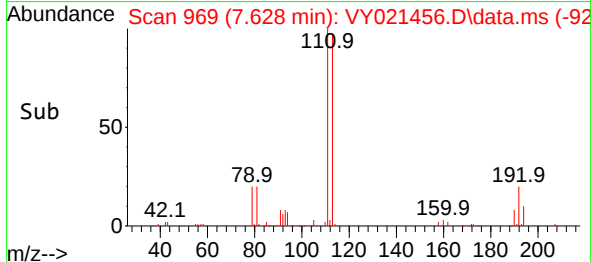
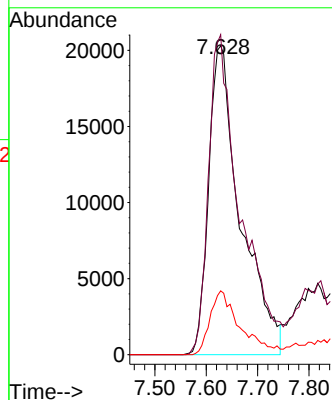
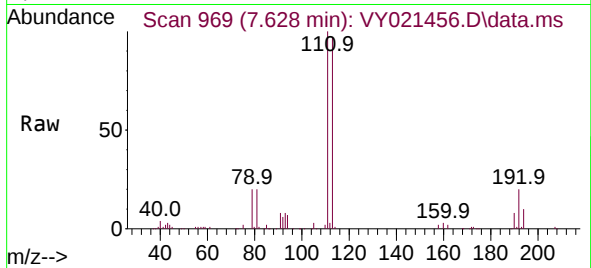




#35
Dibromofluoromethane
Concen: 36.097 ug/l
RT: 7.628 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

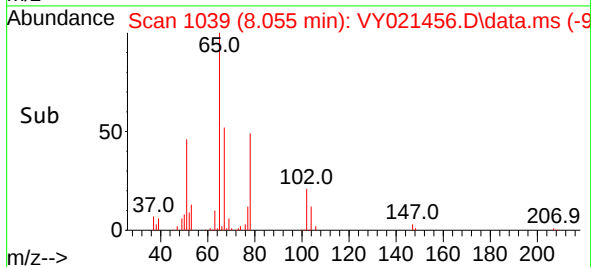
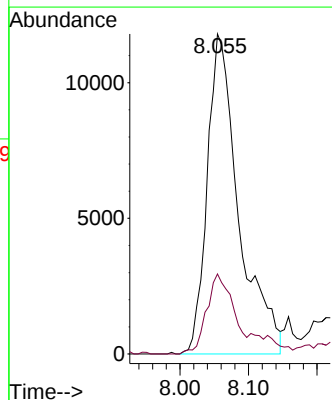
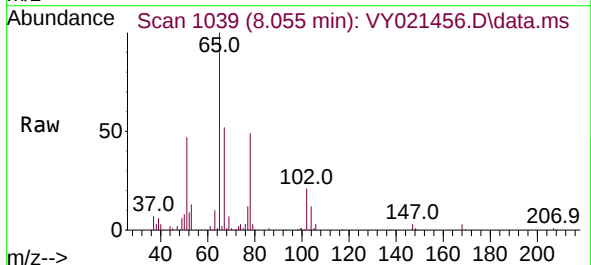
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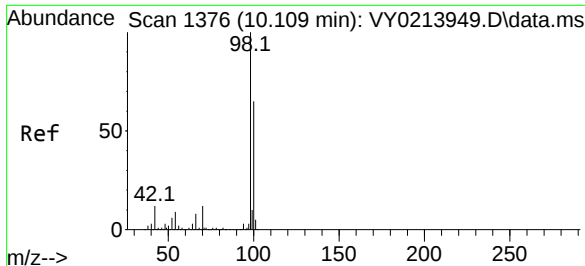
Tgt Ion:113 Resp: 87414
Ion Ratio Lower Upper
113 100
111 103.9 82.0 123.0
192 19.7 15.9 23.9



#40
Benzene
Concen: 3.381 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.030 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 78 Resp: 37754
Ion Ratio Lower Upper
78 100
77 25.0 19.0 28.4

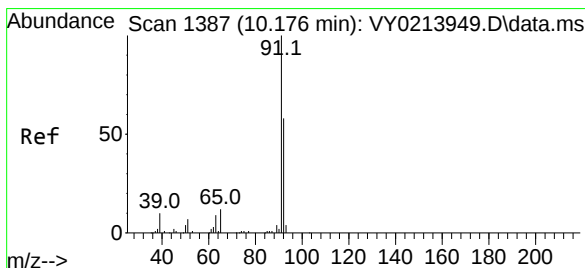
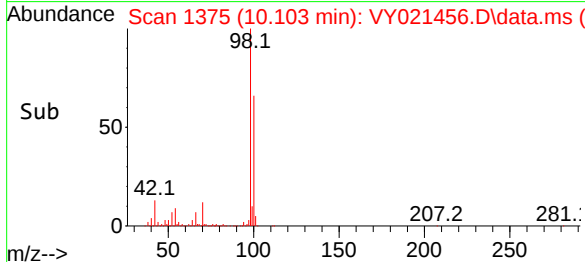
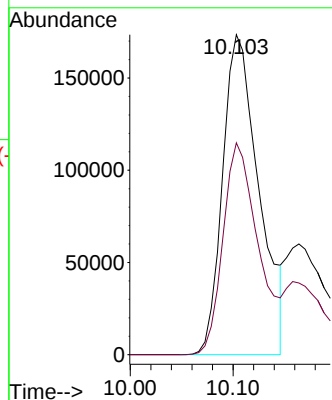
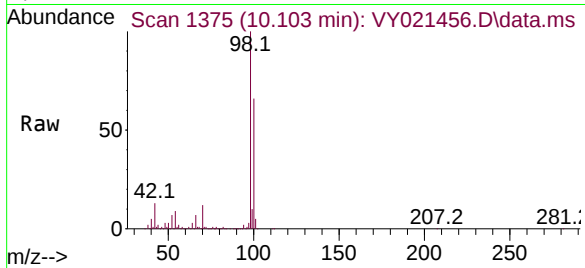




#50
Toluene-d8
Concen: 46.449 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

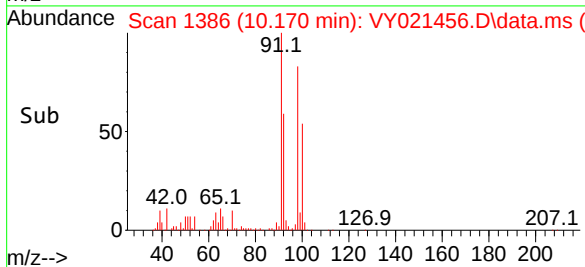
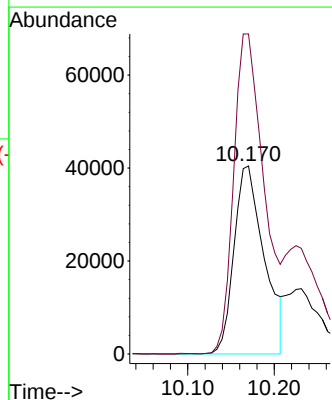
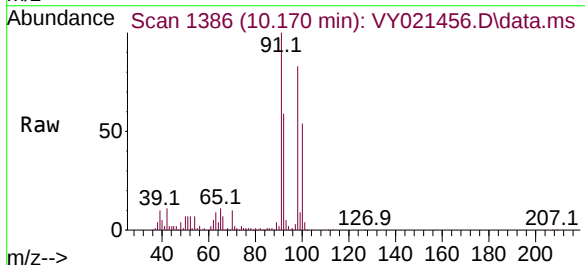
Instrument :
MSVOA_Y
ClientSampleId :
DSP2

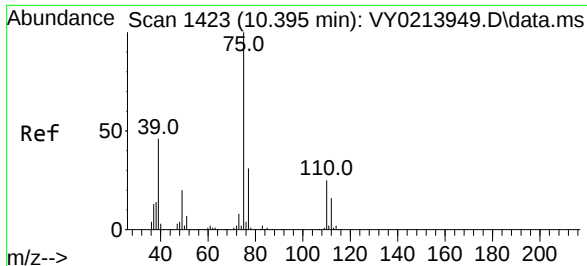
Tgt Ion: 98 Resp: 425894
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1



#52
Toluene
Concen: 13.879 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 92 Resp: 97709
Ion Ratio Lower Upper
92 100
91 172.5 138.2 207.2

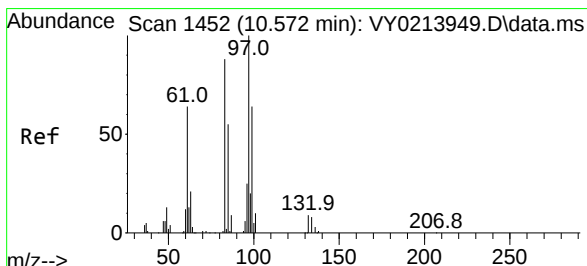
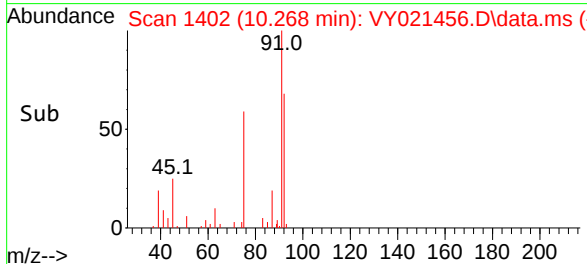
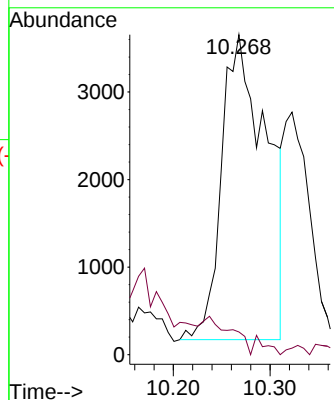
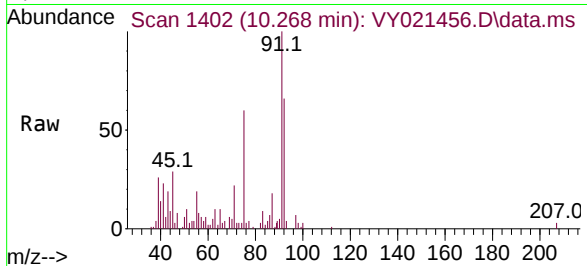




#53
t-1,3-Dichloropropene
Concen: 3.235 ug/l
RT: 10.268 min Scan# 1419
Delta R.T. -0.128 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

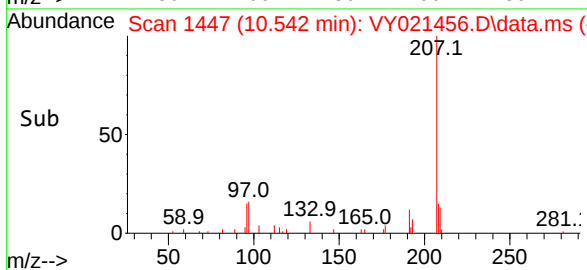
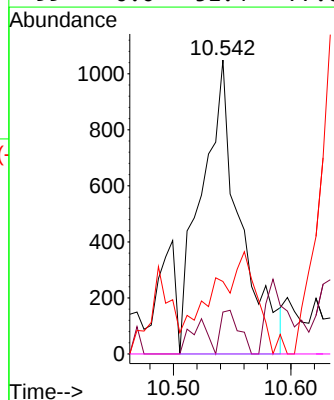
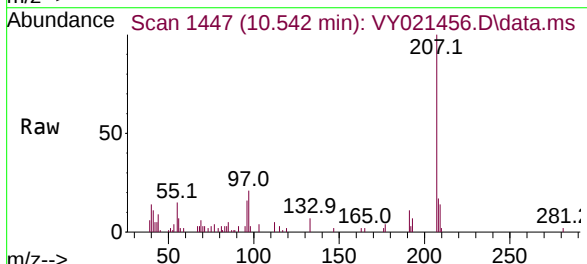
Instrument :
MSVOA_Y
ClientSampleId :
DSP2

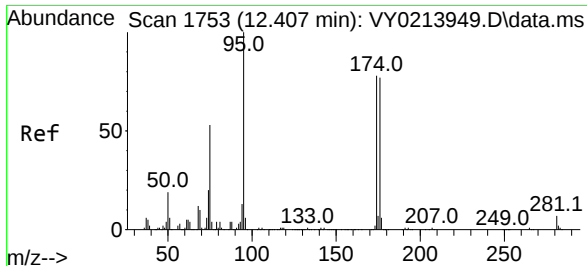
Tgt Ion: 75 Resp: 11193
Ion Ratio Lower Upper
75 100
77 7.4 25.0 37.6#



#55
1,1,2-Trichloroethane
Concen: 1.230 ug/l
RT: 10.542 min Scan# 1447
Delta R.T. -0.030 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 97 Resp: 2380
Ion Ratio Lower Upper
97 100
83 14.3 70.0 105.0#
85 18.0 44.3 66.5#
99 0.0 51.4 77.0#





#62

4-Bromofluorobenzene

Concen: 51.820 ug/l

RT: 12.414 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

Instrument :

MSVOA_Y

ClientSampleId :

DSP2

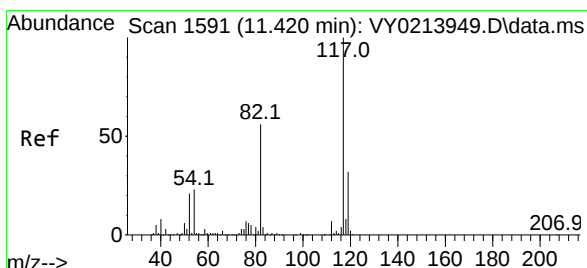
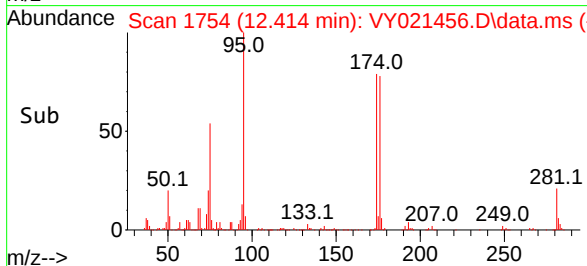
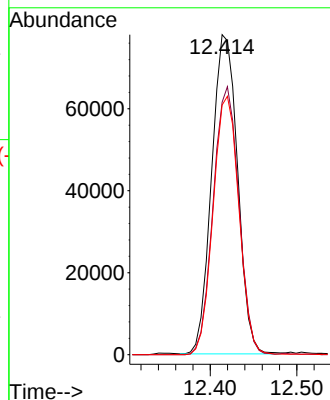
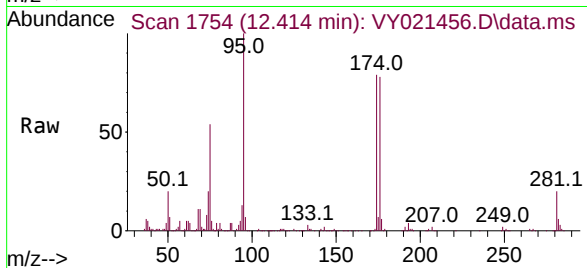
Tgt Ion: 95 Resp: 161622

Ion Ratio Lower Upper

95 100

174 83.1 0.0 165.0

176 80.7 0.0 160.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.426 min Scan# 1592

Delta R.T. 0.006 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

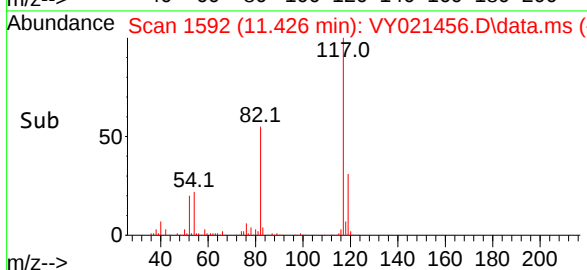
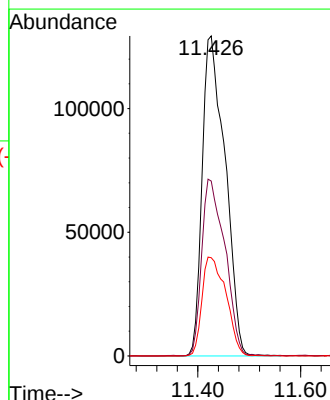
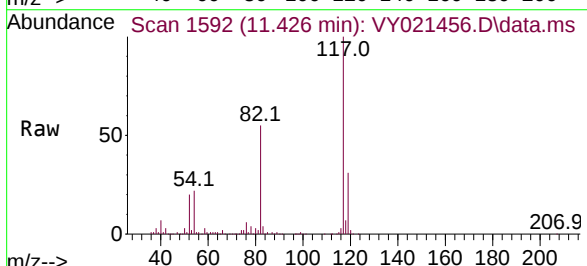
Tgt Ion: 117 Resp: 399863

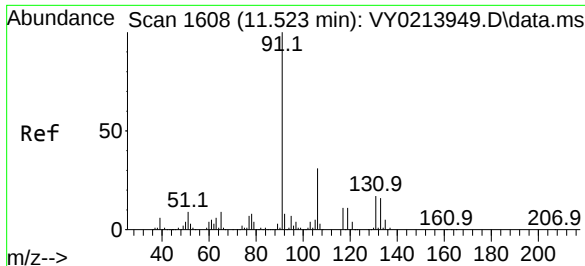
Ion Ratio Lower Upper

117 100

82 54.6 44.6 67.0

119 30.7 25.4 38.0

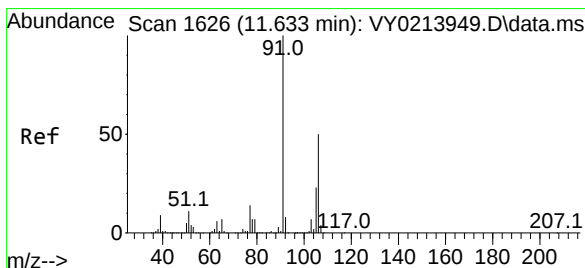
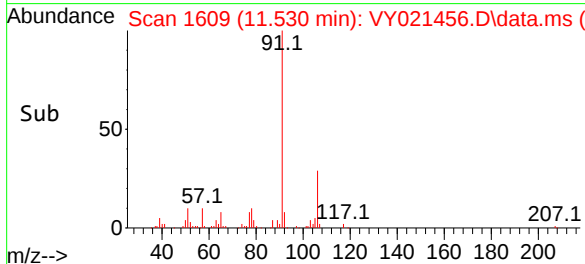
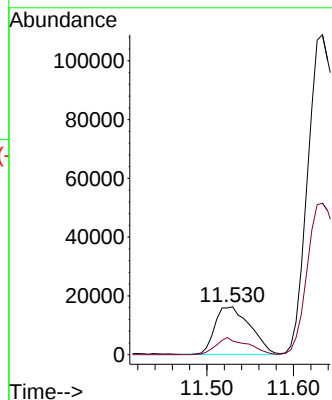
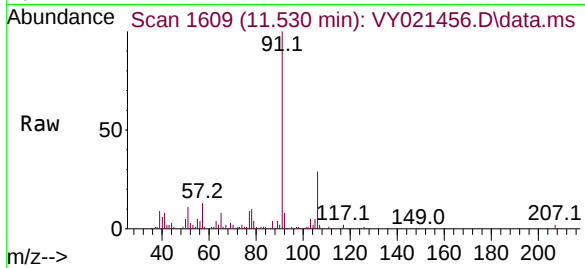




#67
Ethyl Benzene
Concen: 2.769 ug/l
RT: 11.530 min Scan# 1609
Delta R.T. 0.006 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

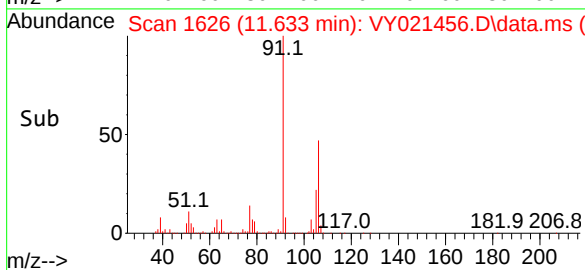
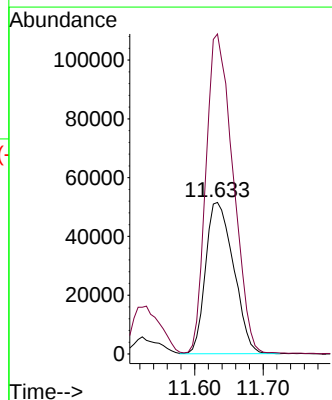
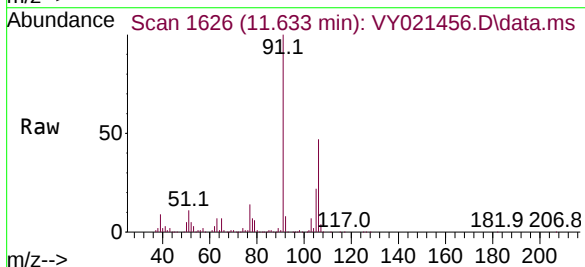
Instrument :
MSVOA_Y
ClientSampleId :
DSP2

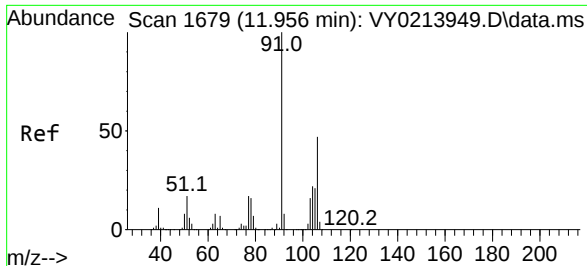
Tgt Ion: 91 Resp: 45890
Ion Ratio Lower Upper
91 100
106 28.7 24.6 36.8



#68
m/p-Xylenes
Concen: 23.244 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion:106 Resp: 146257
Ion Ratio Lower Upper
106 100
91 204.5 161.7 242.5





#69

o-Xylene

Concen: 5.672 ug/l

RT: 11.963 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

Instrument :

MSVOA_Y

ClientSampleId :

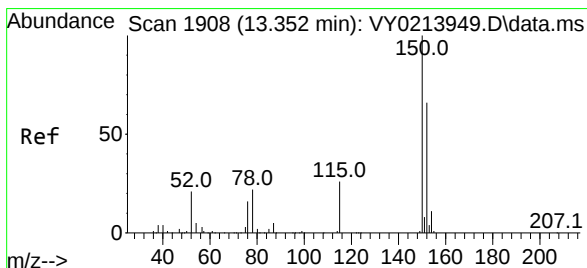
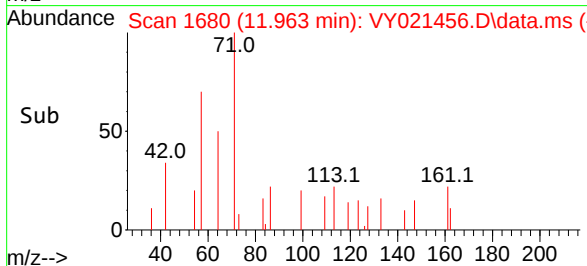
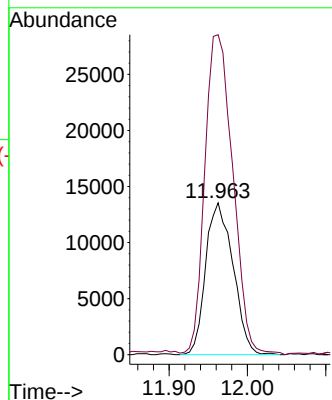
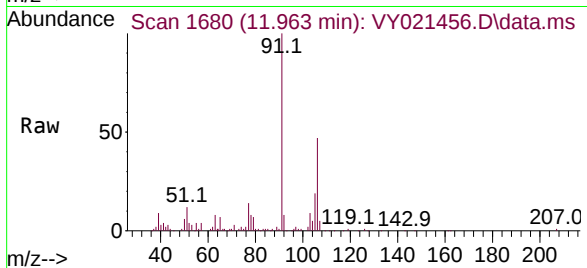
DSP2

Tgt Ion:106 Resp: 32895

Ion Ratio Lower Upper

106 100

91 216.0 107.6 322.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

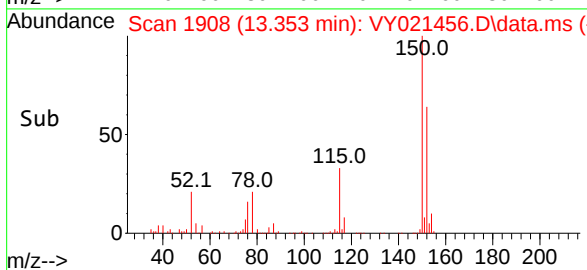
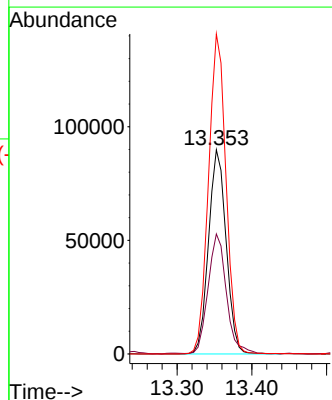
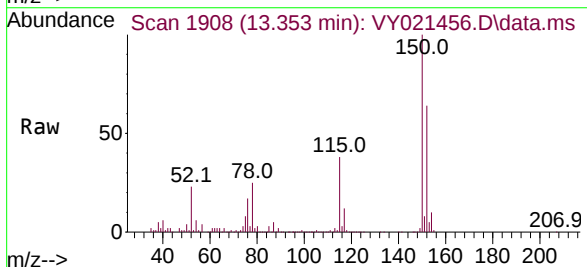
Tgt Ion:152 Resp: 147292

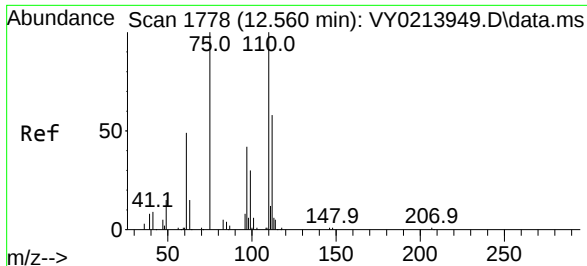
Ion Ratio Lower Upper

152 100

115 61.0 29.0 87.0

150 155.5 0.0 347.2

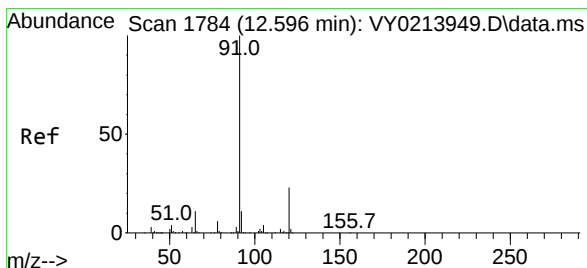
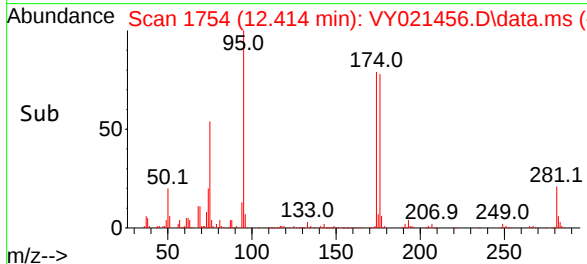
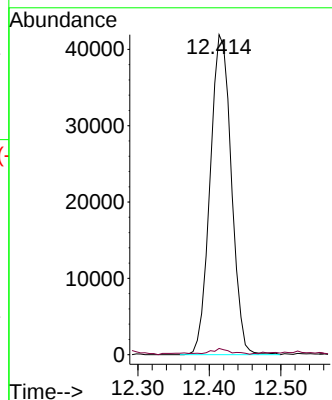
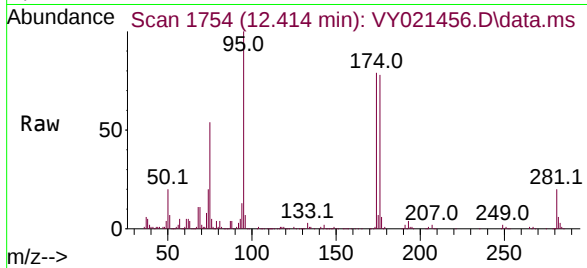




#76
1,2,3-Trichloropropane
Concen: 58.266 ug/l
RT: 12.414 min Scan# 1778
Delta R.T. -0.146 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

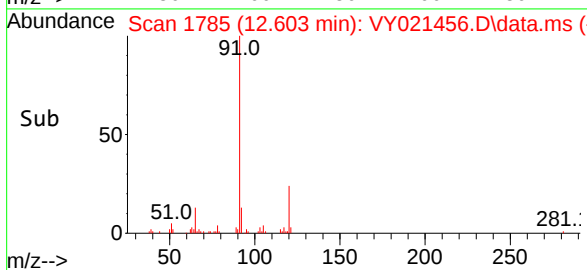
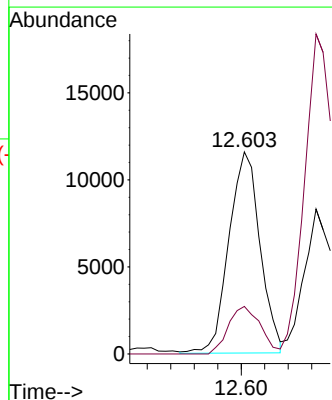
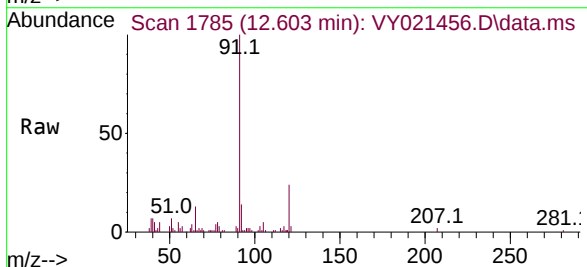
Instrument :
MSVOA_Y
ClientSampleId :
DSP2

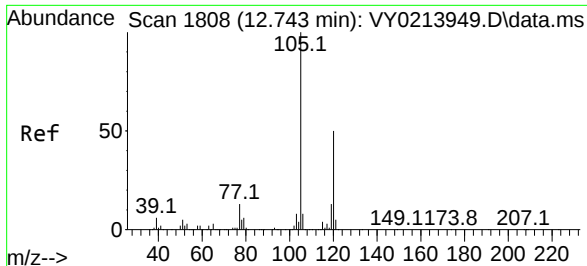
Tgt Ion: 75 Resp: 86481
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#78
n-propylbenzene
Concen: 1.511 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 91 Resp: 21286
Ion Ratio Lower Upper
91 100
120 24.4 11.3 33.8

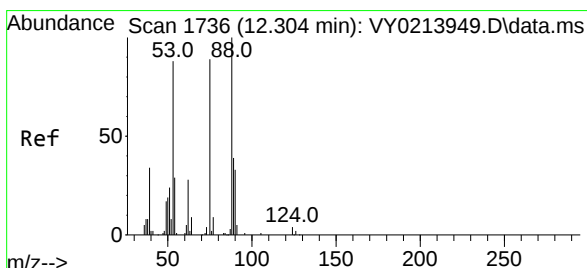
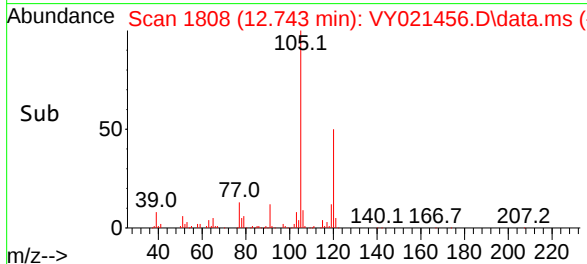
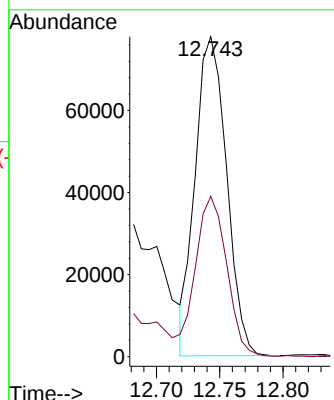
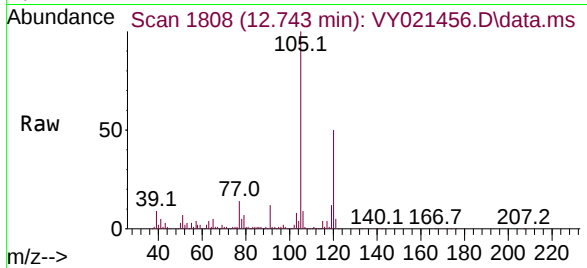




#80
 1,3,5-Trimethylbenzene
 Concen: 14.214 ug/l
 RT: 12.743 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY021456.D
 Acq: 07 Mar 2025 13:18

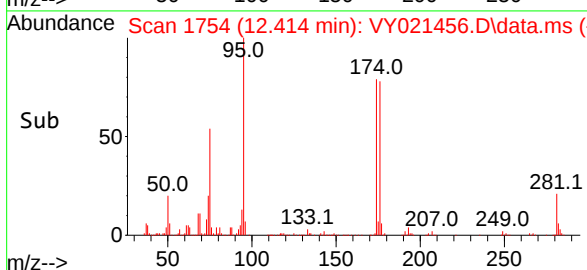
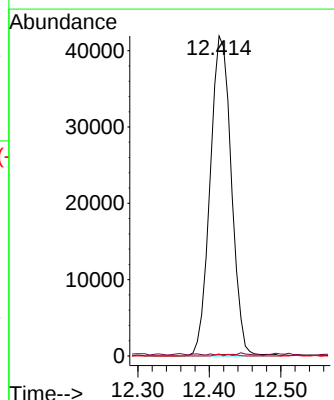
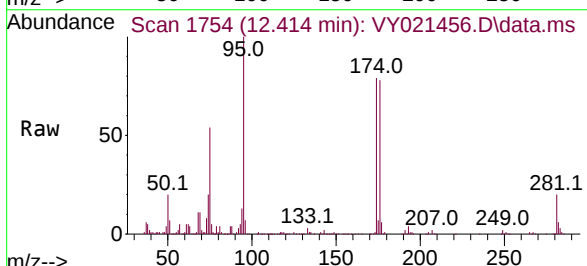
Instrument :
 MSVOA_Y
 ClientSampleId :
 DSP2

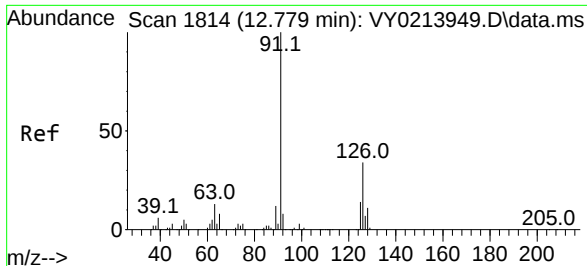
Tgt Ion:105 Resp: 134024
 Ion Ratio Lower Upper
 105 100
 120 50.7 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 132.457 ug/l
 RT: 12.414 min Scan# 1754
 Delta R.T. 0.110 min
 Lab File: VY021456.D
 Acq: 07 Mar 2025 13:18

Tgt Ion: 75 Resp: 86481
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.0 121.4#
 89 0.2 36.9 55.3#

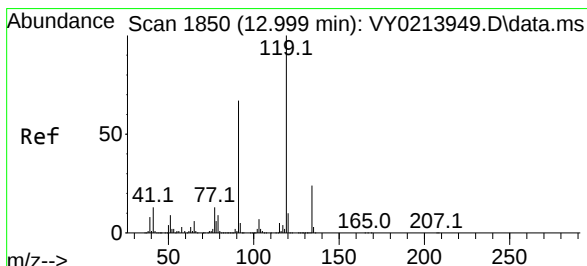
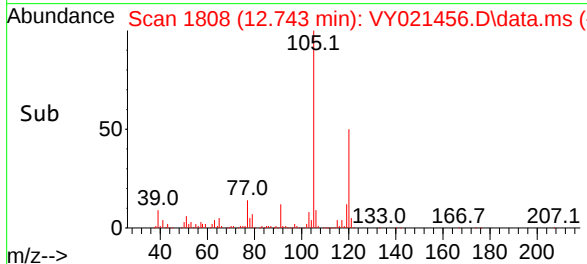
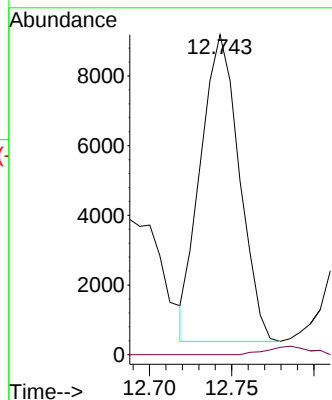
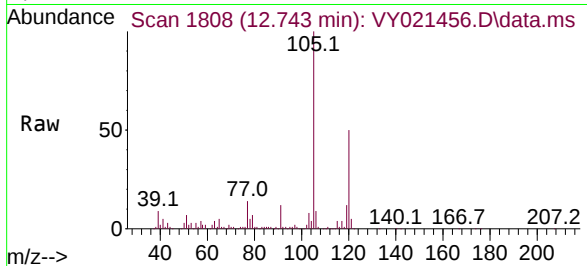




#82
4-Chlorotoluene
Concen: 1.727 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.036 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

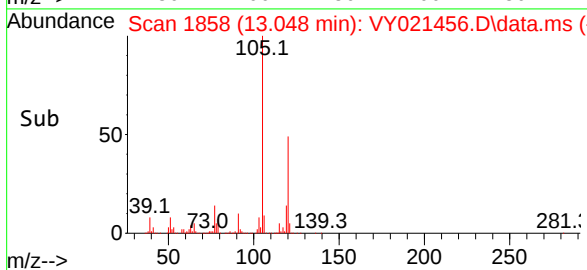
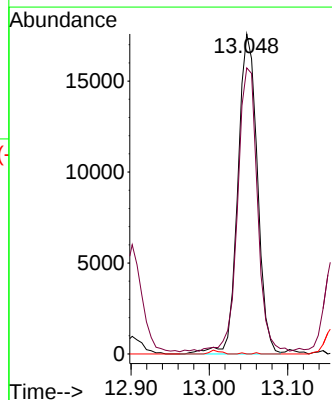
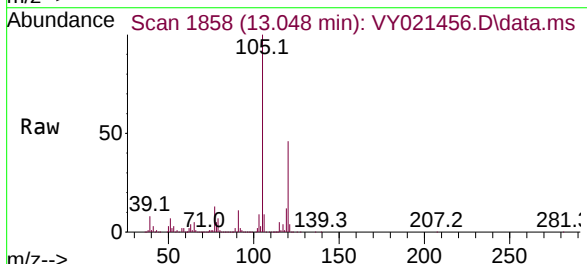
Instrument :
MSVOA_Y
ClientSampleId :
DSP2

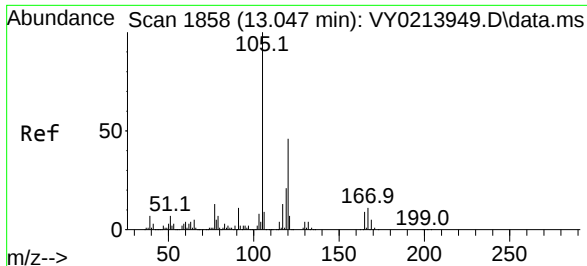
Tgt Ion: 91 Resp: 14411
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#



#83
tert-Butylbenzene
Concen: 3.612 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.049 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Tgt Ion: 119 Resp: 30385
Ion Ratio Lower Upper
119 100
91 90.2 33.2 99.6
134 0.0 13.5 40.5#





#84

1,2,4-Trimethylbenzene

Concen: 26.162 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.000 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

Instrument :

MSVOA_Y

ClientSampleId :

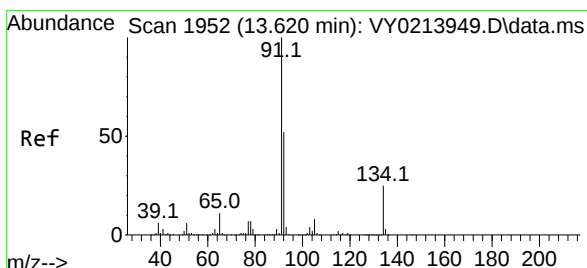
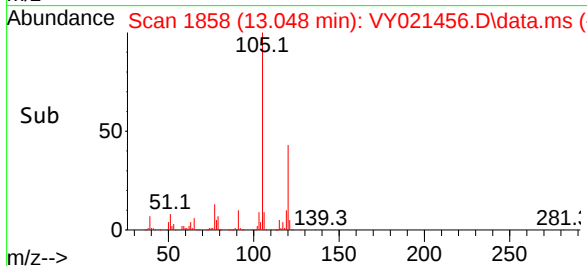
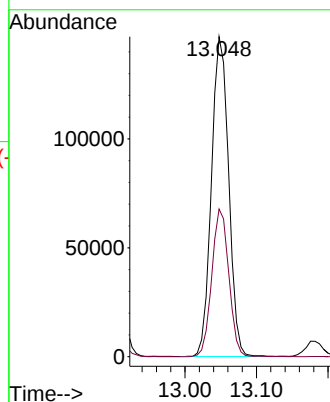
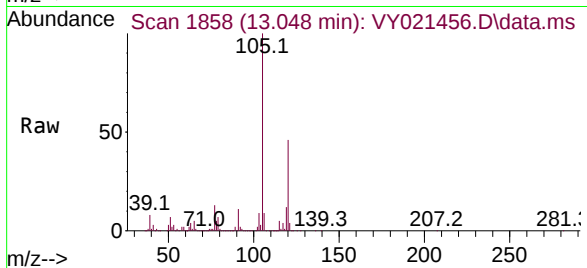
DSP2

Tgt Ion:105 Resp: 244921

Ion Ratio Lower Upper

105 100

120 45.8 22.7 68.1



#89

n-Butylbenzene

Concen: 2.536 ug/l

RT: 13.590 min Scan# 1947

Delta R.T. -0.030 min

Lab File: VY021456.D

Acq: 07 Mar 2025 13:18

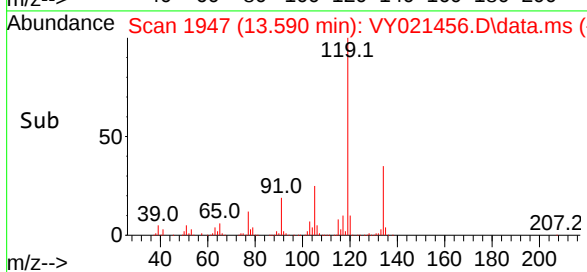
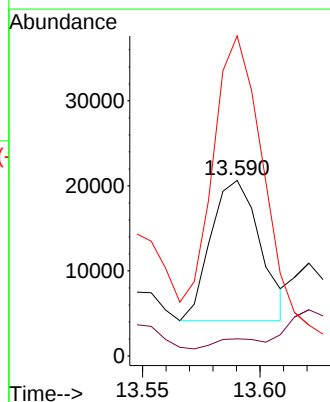
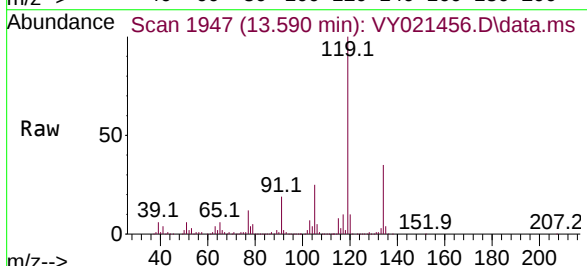
Tgt Ion: 91 Resp: 24148

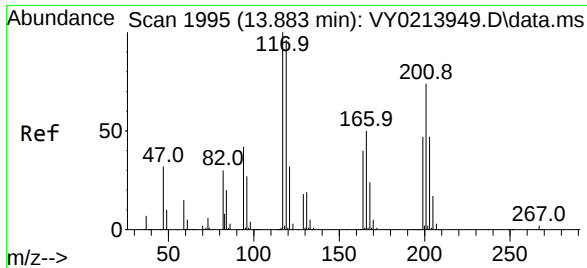
Ion Ratio Lower Upper

91 100

92 11.5 26.1 78.3#

134 260.8 12.6 37.8#

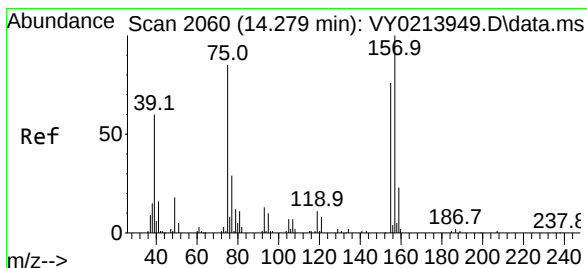
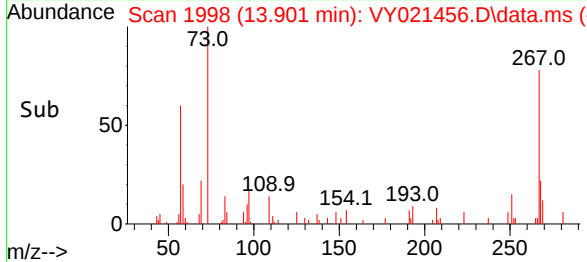
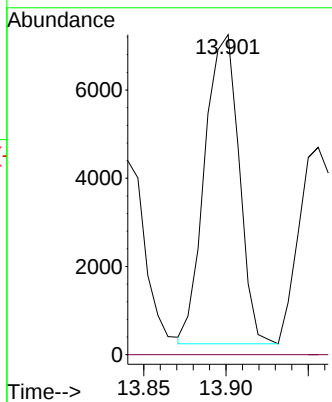
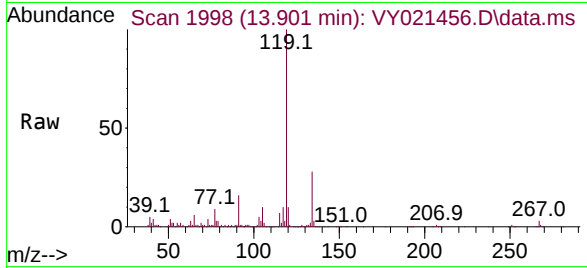




#90
 Hexachloroethane
 Concen: 4.629 ug/l
 RT: 13.901 min Scan# 1998
 Delta R.T. 0.019 min
 Lab File: VY021456.D
 Acq: 07 Mar 2025 13:18

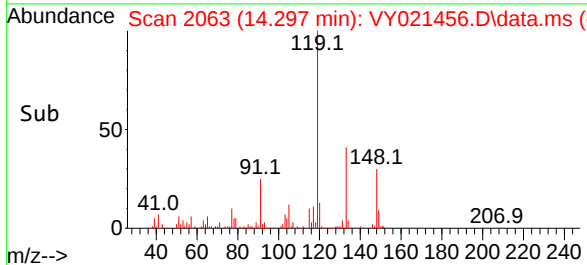
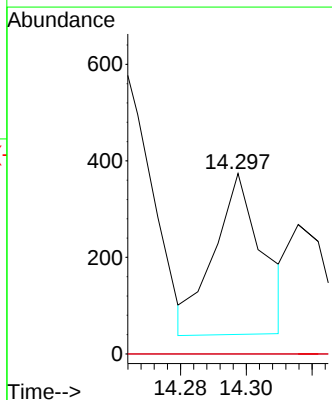
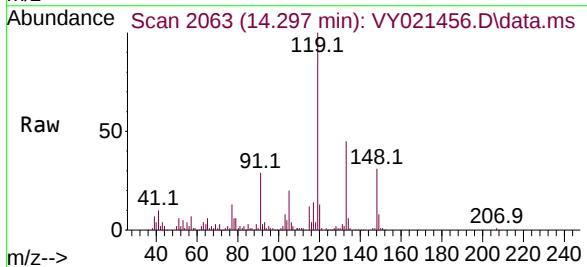
Instrument :
 MSVOA_Y
 ClientSampleId :
 DSP2

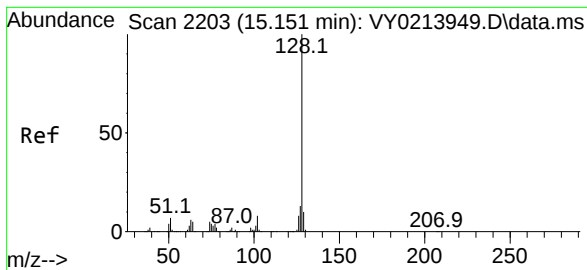
Tgt Ion:117 Resp: 10182
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.4 112.2#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.115 ug/l
 RT: 14.297 min Scan# 2063
 Delta R.T. 0.019 min
 Lab File: VY021456.D
 Acq: 07 Mar 2025 13:18

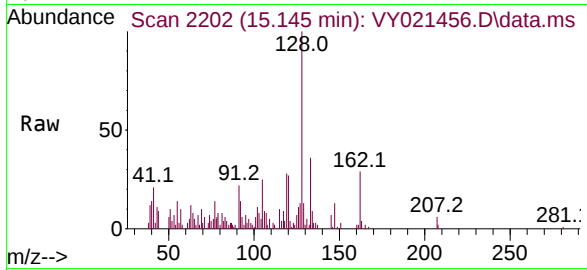
Tgt Ion: 75 Resp: 342
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.5 130.5#
 157 0.0 54.4 163.2#





#95
Naphthalene
Concen: 3.827 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY021456.D
Acq: 07 Mar 2025 13:18

Instrument :
MSVOA_Y
ClientSampleId :
DSP2



Tgt Ion:	128	Resp:	9527
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.6	15.8
129	12.5	8.6	13.0

