

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023913.D
 Acq On : 09 Dec 2025 17:03
 Operator : SY/MD
 Sample : Q3809-10
 Misc : 2.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-7

Quant Time: Dec 10 02:31:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 03:49:13 2025
 Response via : Initial Calibration

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

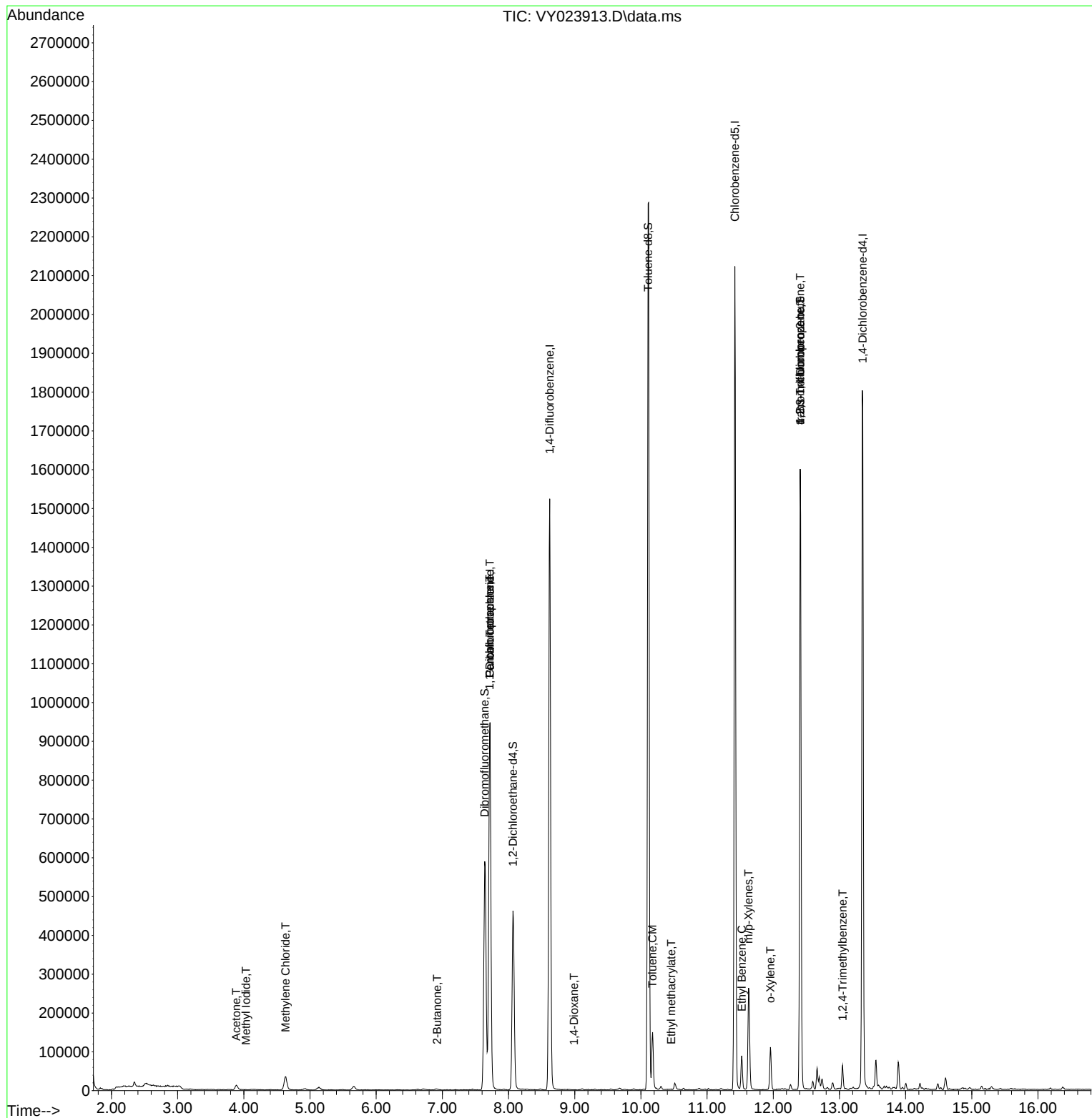
Internal Standards						
1) Pentafluorobenzene	7.719	168	794892	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1368696	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1161620	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	489817	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	362907	45.638	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	91.280%		
35) Dibromofluoromethane	7.640	113	419279	47.762	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.520%		
50) Toluene-d8	10.109	98	1550572	45.391	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	90.780%		
62) 4-Bromofluorobenzene	12.407	95	470310	40.365	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	80.740%		
Target Compounds						Qvalue
10) Methyl Iodide	4.031	142	562	2.499	ug/l #	54
11) Tert butyl alcohol	4.891	59	681	Below Cal	#	74
16) Acetone	3.885	43	21257	8.921	ug/l	92
20) Methylene Chloride	4.628	84	28074	1.457	ug/l	87
25) 2-Butanone	6.921	43	3354	1.168	ug/l	94
36) 1,1-Dichloropropene	7.713	75	51246	3.959	ug/l #	50
38) Carbon Tetrachloride	7.719	117	71223	4.985	ug/l #	16
49) 1,4-Dioxane	8.987	88	117	2.098	ug/l #	40
52) Toluene	10.176	92	61833	2.524	ug/l	99
56) Ethyl methacrylate	10.457	69	131	4.163	ug/l #	1
67) Ethyl Benzene	11.523	91	58329	1.273	ug/l	93
68) m/p-Xylenes	11.627	106	86224	4.922	ug/l	94
69) o-Xylene	11.956	106	29867	1.823	ug/l	99
76) 1,2,3-Trichloropropane	12.407	75	230318	47.430	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	230318	113.600	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.048	105	33499	1.153	ug/l	100

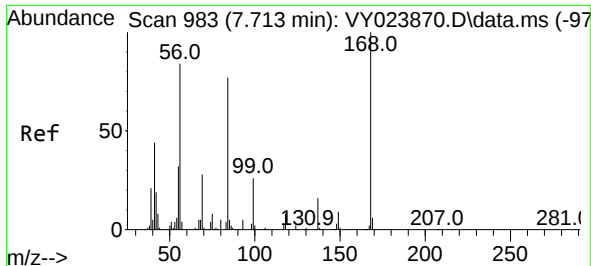
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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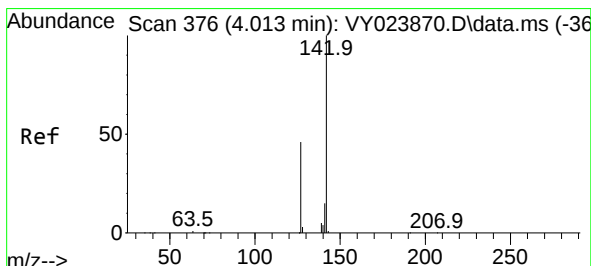
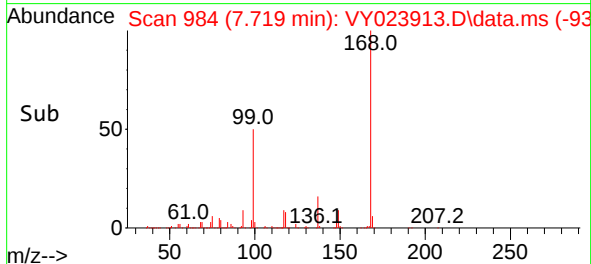
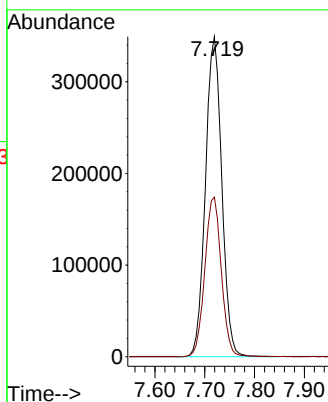
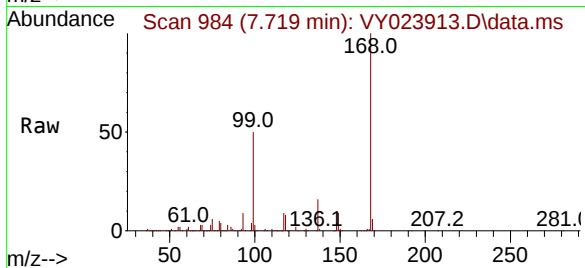




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

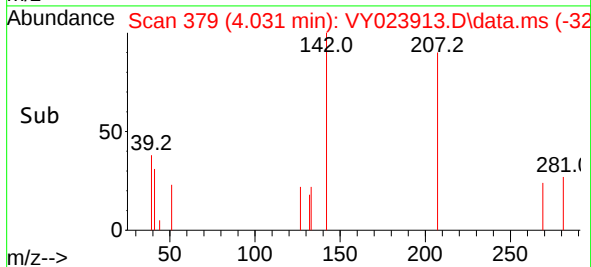
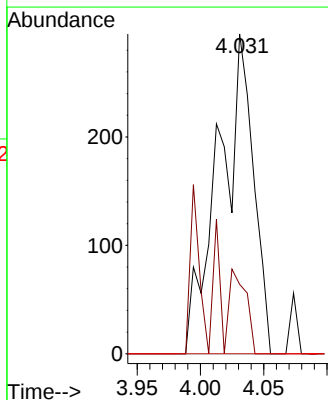
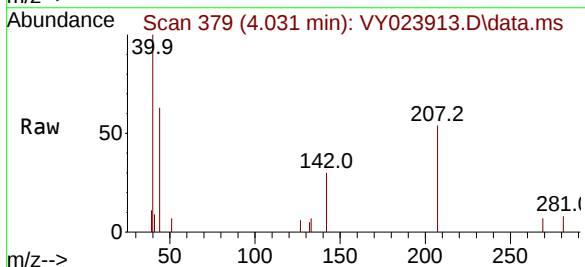
Instrument :
MSVOA_Y
ClientSampleId :
SW-7

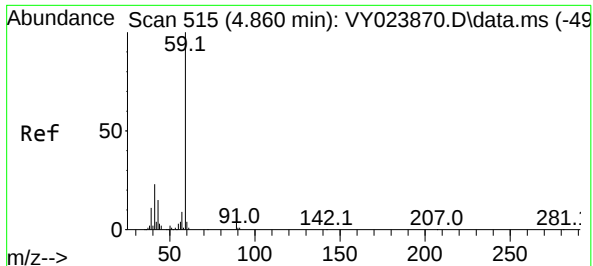
Tgt Ion:168 Resp: 794892
Ion Ratio Lower Upper
168 100
99 49.8 42.5 63.7



#10
Methyl Iodide
Concen: 2.499 ug/l
RT: 4.031 min Scan# 379
Delta R.T. 0.018 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion:142 Resp: 562
Ion Ratio Lower Upper
142 100
127 12.8 36.1 54.1#
141 0.0 11.8 17.8#

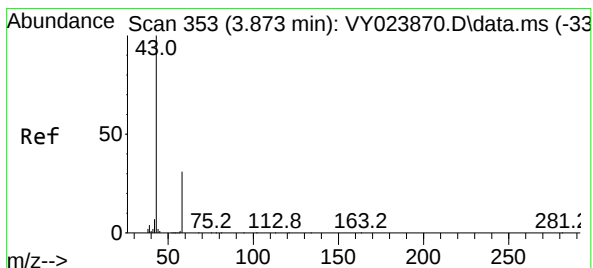
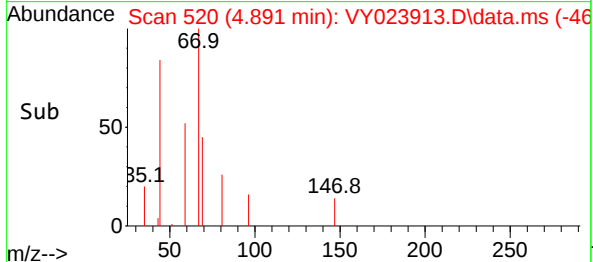
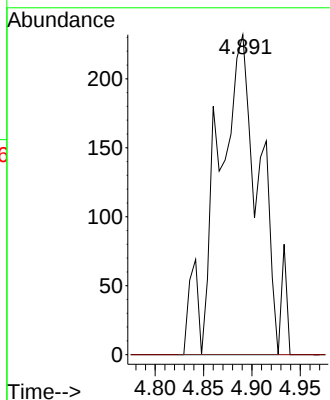
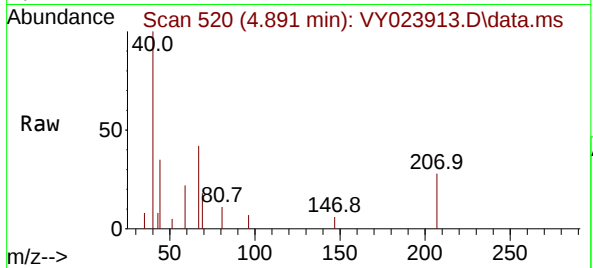




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.891 min Scan# 515
Delta R.T. 0.030 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

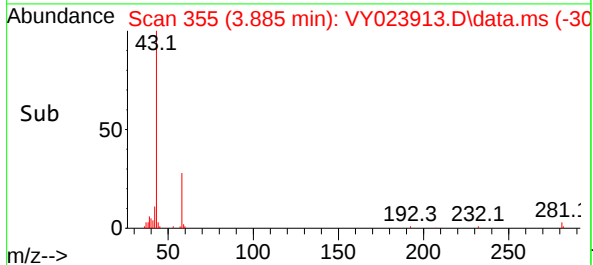
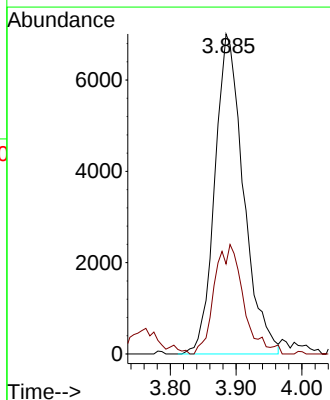
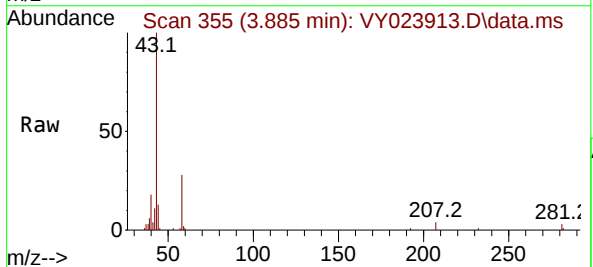
Instrument :
MSVOA_Y
ClientSampleId :
SW-7

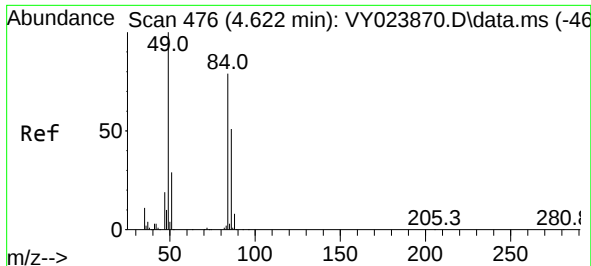
Tgt Ion: 59 Resp: 681
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



#16
Acetone
Concen: 8.921 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion: 43 Resp: 21257
Ion Ratio Lower Upper
43 100
58 26.7 25.1 37.7

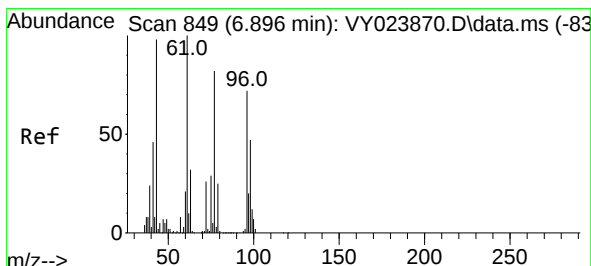
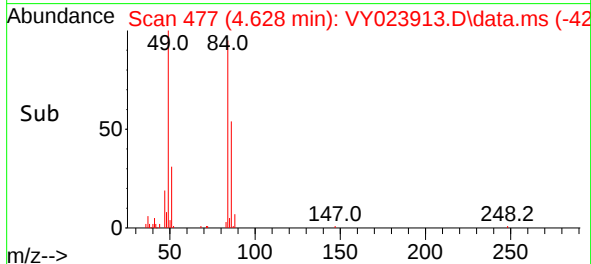
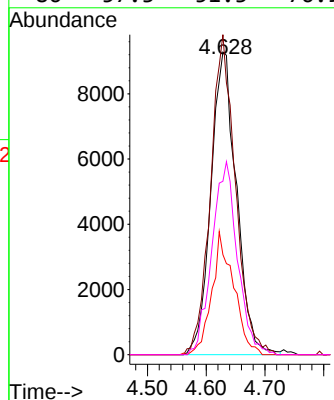
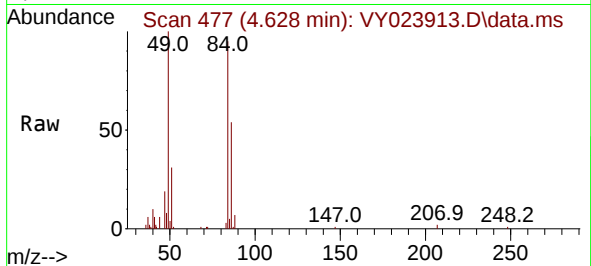




#20
Methylene Chloride
Concen: 1.457 ug/l
RT: 4.628 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

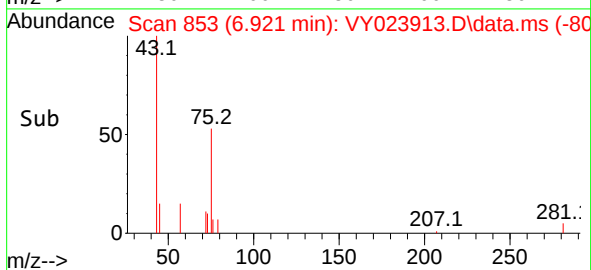
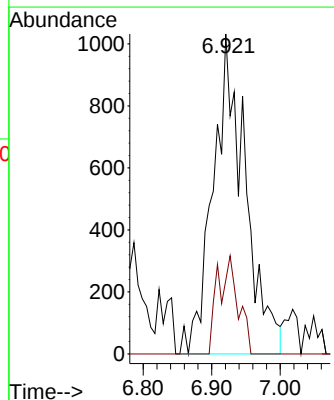
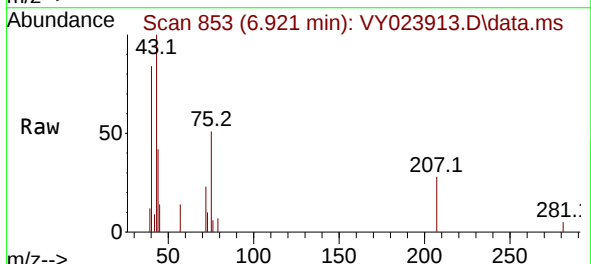
Instrument :
MSVOA_Y
ClientSampleId :
SW-7

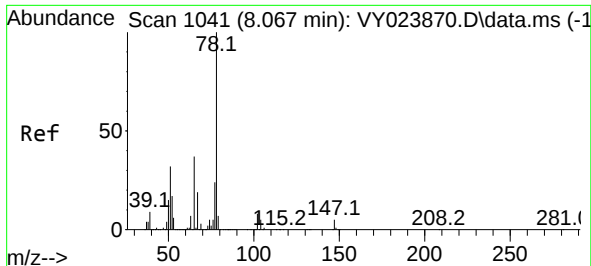
Tgt Ion:	84	Resp:	28074
Ion	Ratio	Lower	Upper
84	100		
49	105.7	100.6	151.0
51	33.0	29.0	43.6
86	57.3	51.3	76.9



#25
2-Butanone
Concen: 1.168 ug/l
RT: 6.921 min Scan# 853
Delta R.T. 0.024 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion:	43	Resp:	3354
Ion	Ratio	Lower	Upper
43	100		
72	23.1	21.0	31.6





#33

1,2-Dichloroethane-d4

Concen: 45.638 ug/l

RT: 8.067 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY023913.D

Acq: 09 Dec 2025 17:03

Instrument :

MSVOA_Y

ClientSampleId :

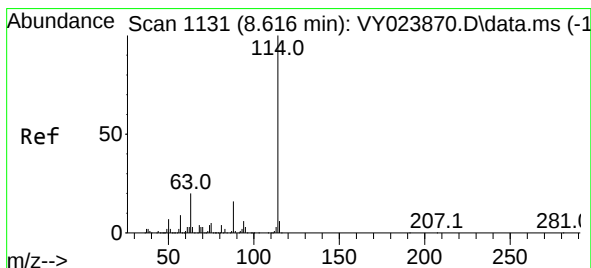
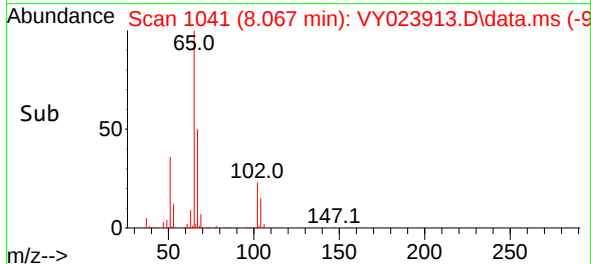
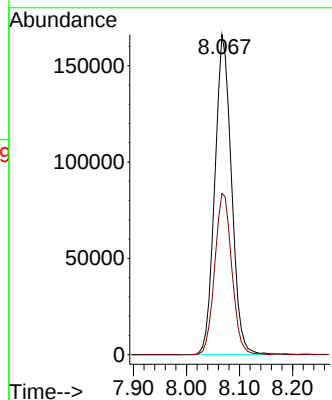
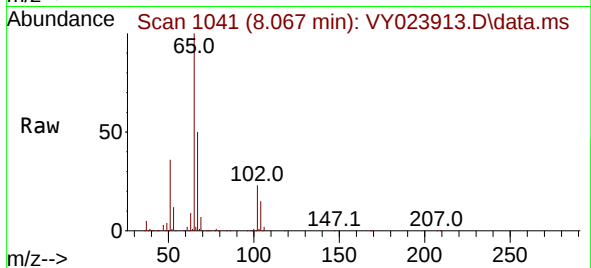
SW-7

Tgt Ion: 65 Resp: 362907

Ion Ratio Lower Upper

65 100

67 51.5 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY023913.D

Acq: 09 Dec 2025 17:03

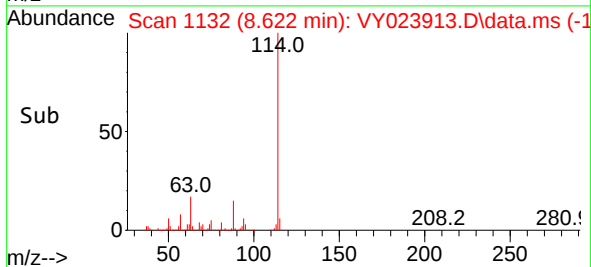
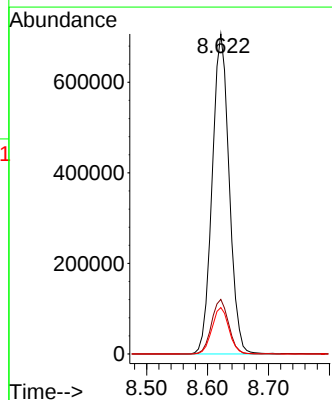
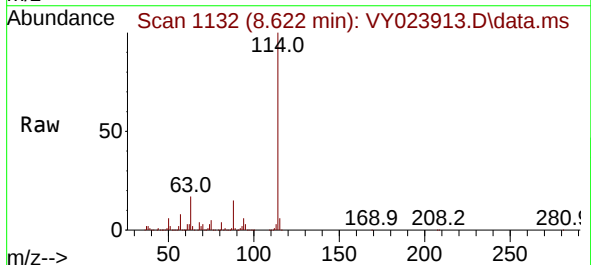
Tgt Ion:114 Resp: 1368696

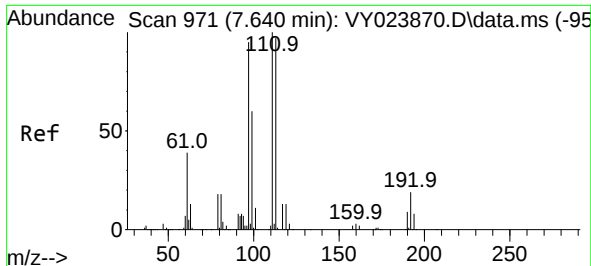
Ion Ratio Lower Upper

114 100

63 17.0 0.0 39.2

88 14.5 0.0 31.4

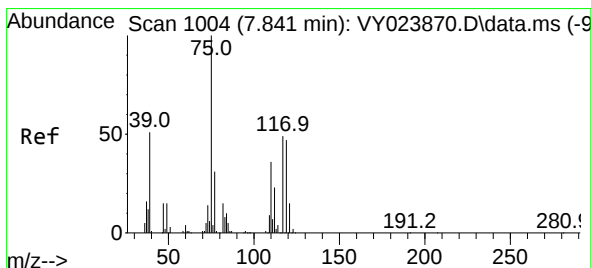
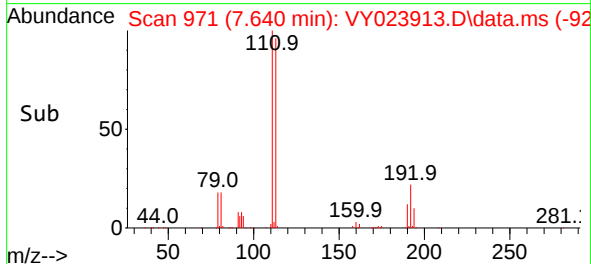
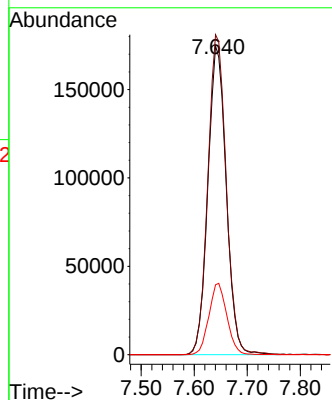
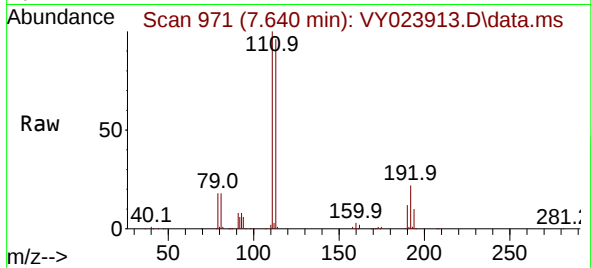




#35
Dibromofluoromethane
Concen: 47.762 ug/l
RT: 7.640 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

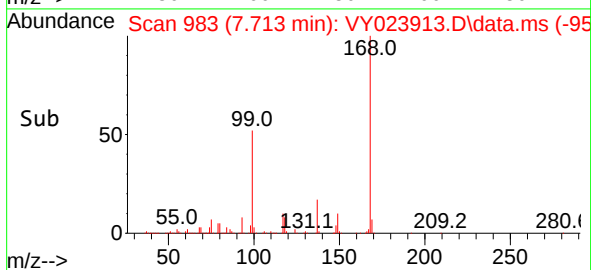
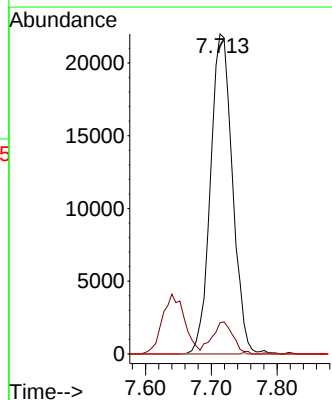
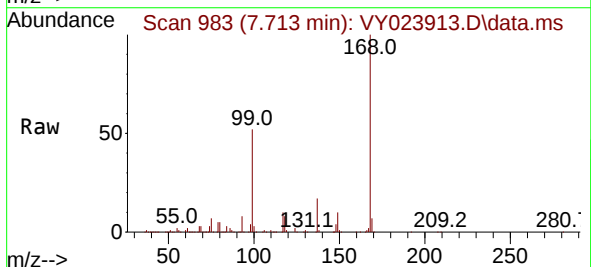
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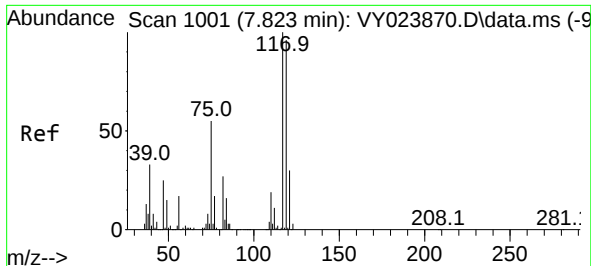
Tgt Ion:113 Resp: 419279
Ion Ratio Lower Upper
113 100
111 104.1 82.2 123.2
192 22.7 15.8 23.8



#36
1,1-Dichloropropene
Concen: 3.959 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.128 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion: 75 Resp: 51246
Ion Ratio Lower Upper
75 100
110 9.5 17.6 52.9#
77 0.0 24.6 37.0#

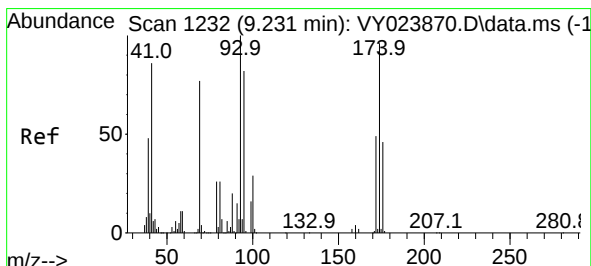
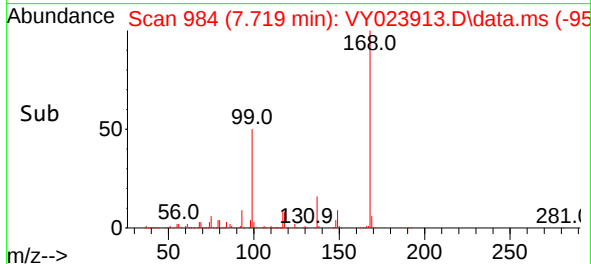
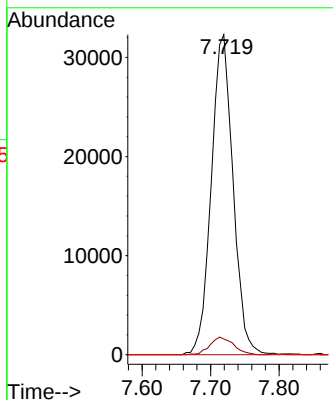
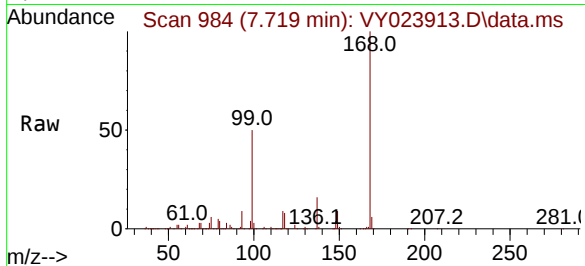




#38
Carbon Tetrachloride
Concen: 4.985 ug/l
RT: 7.719 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

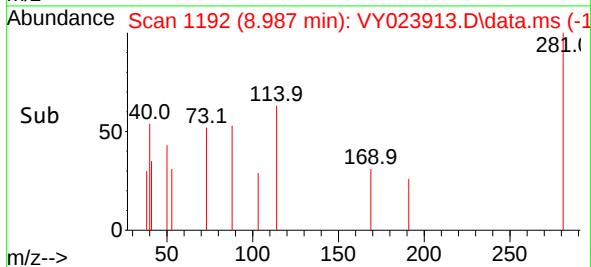
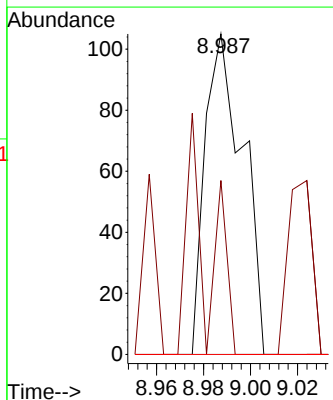
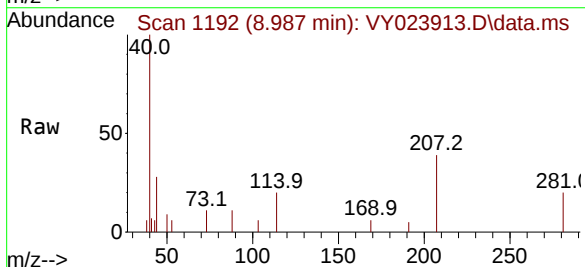
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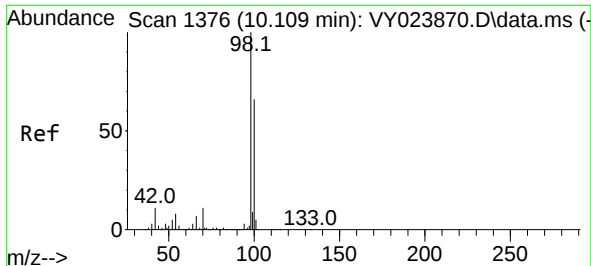
Tgt Ion:117 Resp: 71223
Ion Ratio Lower Upper
117 100
119 4.9 77.0 115.6#
121 0.0 23.9 35.9#



#49
1,4-Dioxane
Concen: 2.098 ug/l
RT: 8.987 min Scan# 1192
Delta R.T. -0.244 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion: 88 Resp: 117
Ion Ratio Lower Upper
88 100
43 42.7 26.8 40.2#
58 0.0 52.4 78.6#

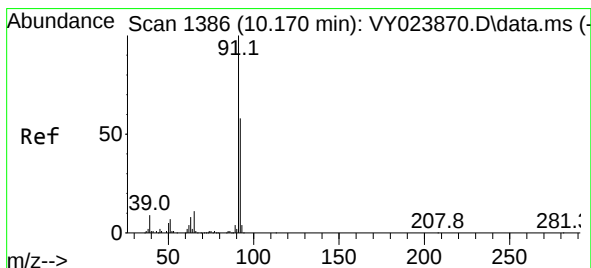
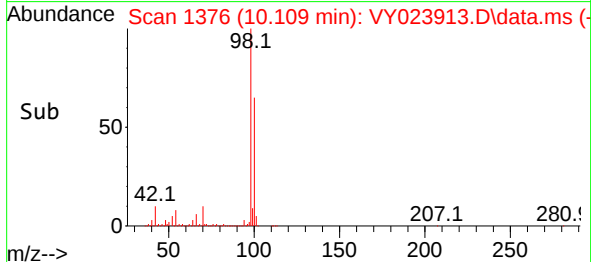
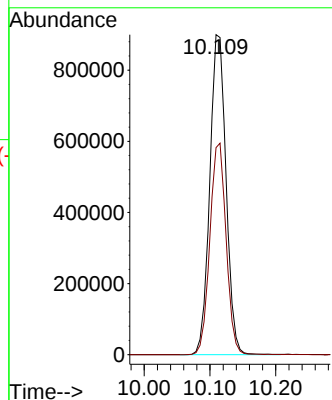
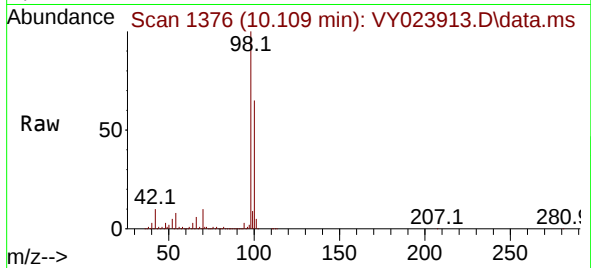




#50
Toluene-d8
Concen: 45.391 ug/l
RT: 10.109 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

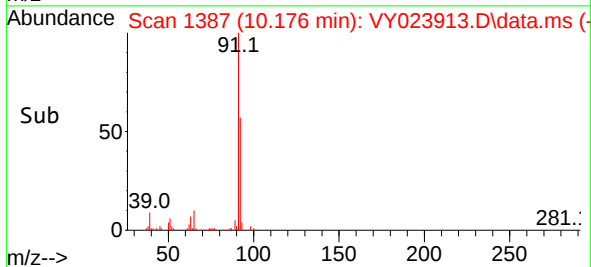
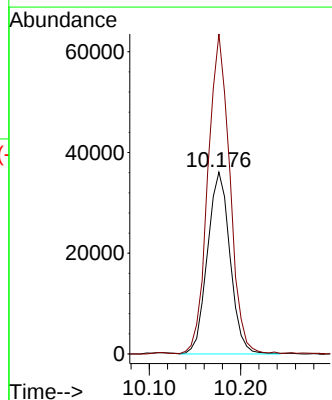
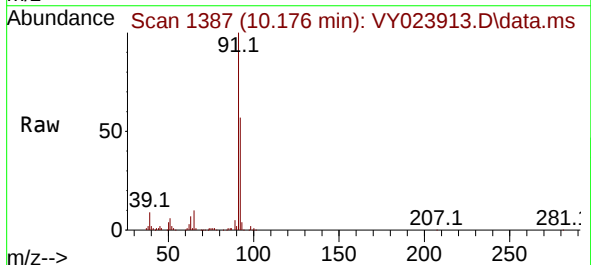
Instrument :
MSVOA_Y
ClientSampleId :
SW-7

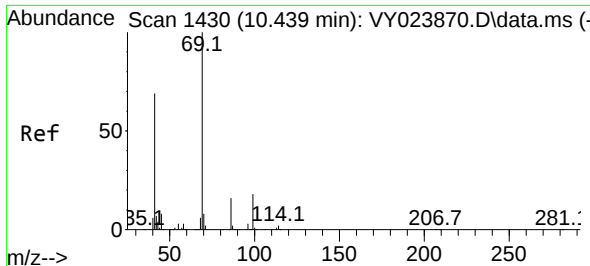
Tgt Ion: 98 Resp: 1550572
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#52
Toluene
Concen: 2.524 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion: 92 Resp: 61833
Ion Ratio Lower Upper
92 100
91 170.5 137.3 205.9

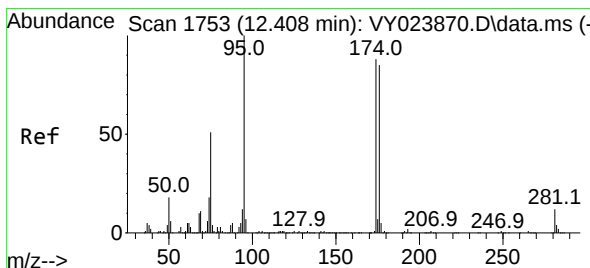
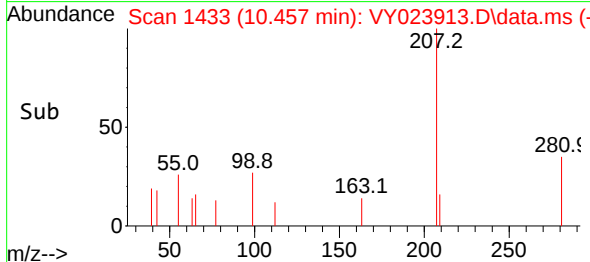
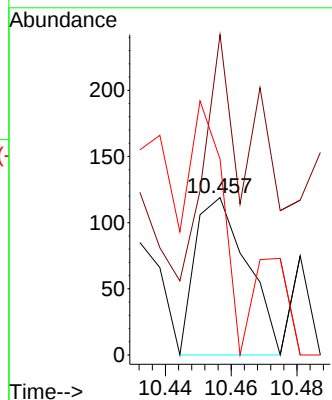
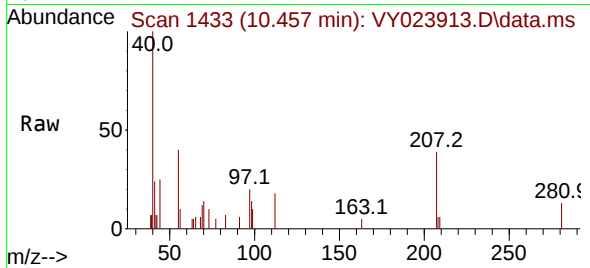




#56
Ethyl methacrylate
Concen: 4.163 ug/l
RT: 10.457 min Scan# 1433
Delta R.T. 0.018 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

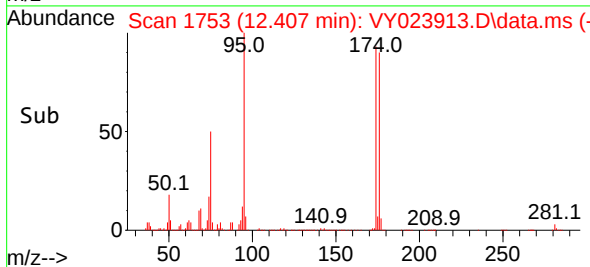
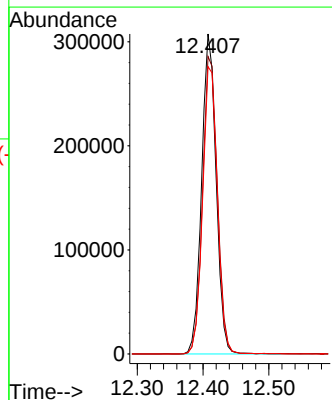
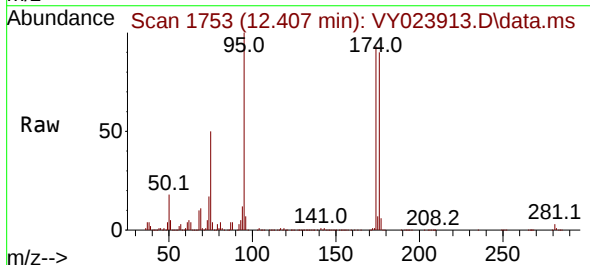
Instrument :
MSVOA_Y
ClientSampleId :
SW-7

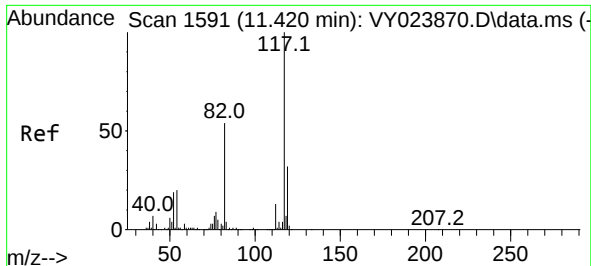
Tgt Ion: 69 Resp: 131
Ion Ratio Lower Upper
69 100
41 180.2 52.5 78.7#
39 0.0 27.1 40.7#



#62
4-Bromofluorobenzene
Concen: 40.365 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion: 95 Resp: 470310
Ion Ratio Lower Upper
95 100
174 95.2 0.0 169.6
176 91.9 0.0 164.4

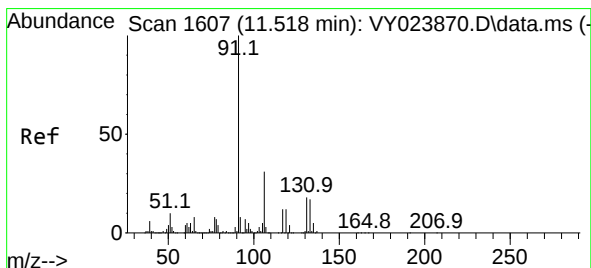
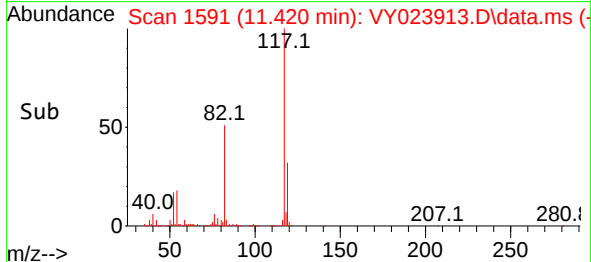
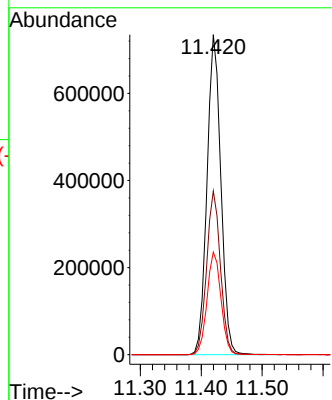
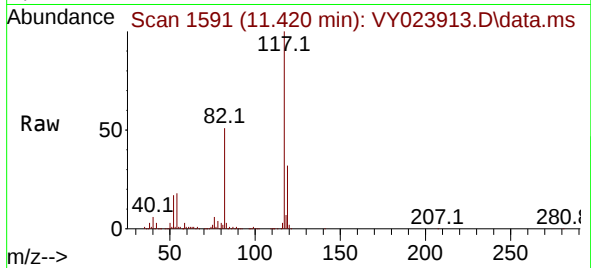




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

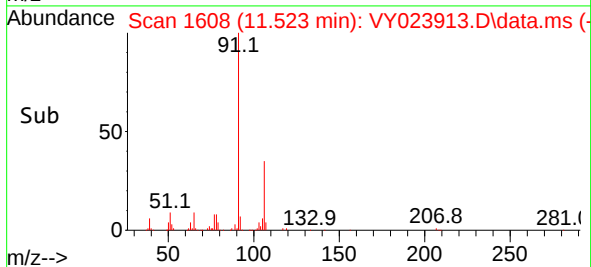
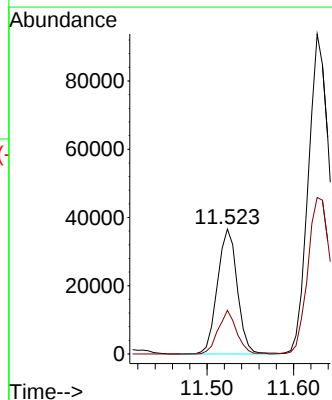
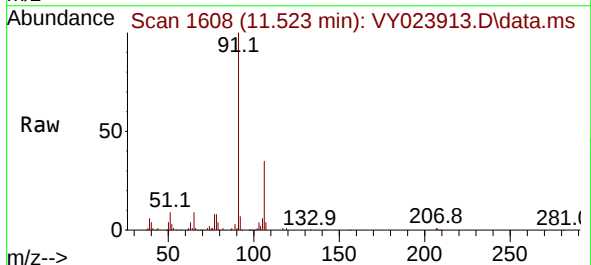
Instrument :
MSVOA_Y
ClientSampleId :
SW-7

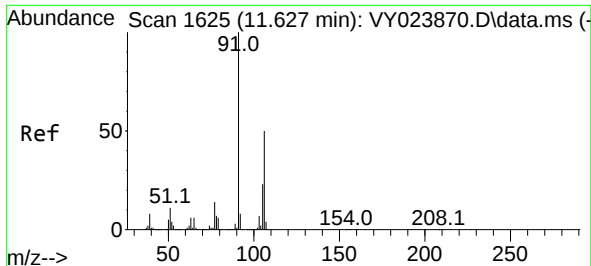
Tgt Ion:117 Resp: 1161620
Ion Ratio Lower Upper
117 100
82 51.2 43.1 64.7
119 32.0 26.0 39.0



#67
Ethyl Benzene
Concen: 1.273 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion: 91 Resp: 58329
Ion Ratio Lower Upper
91 100
106 35.0 25.0 37.6

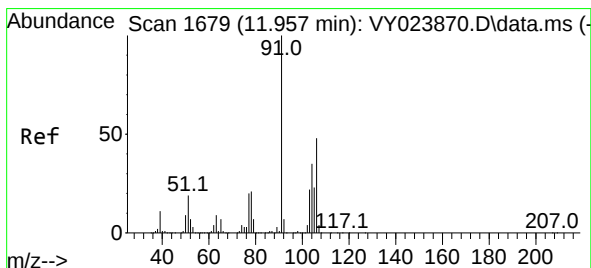
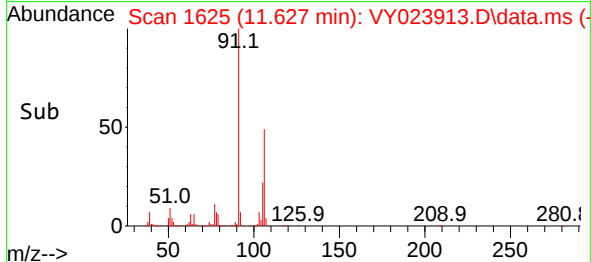
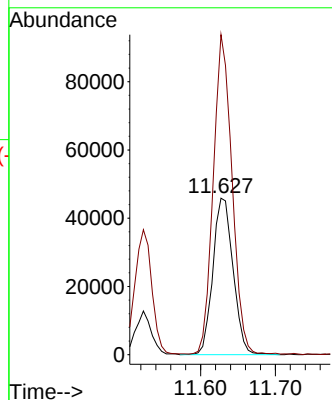
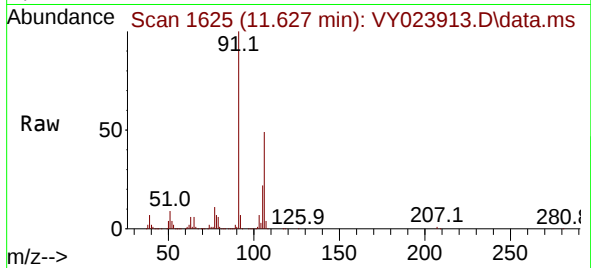




#68
m/p-Xylenes
Concen: 4.922 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

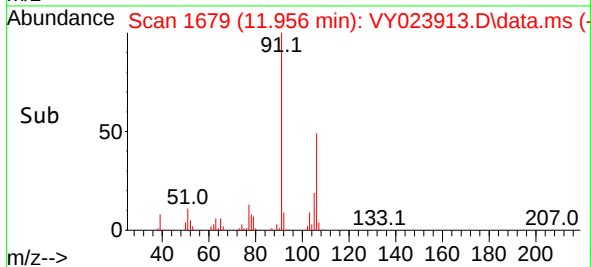
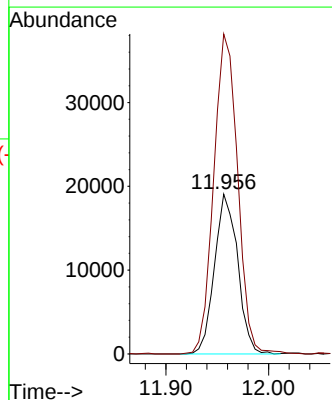
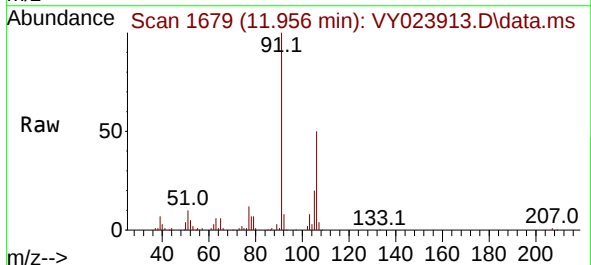
Instrument :
MSVOA_Y
ClientSampleId :
SW-7

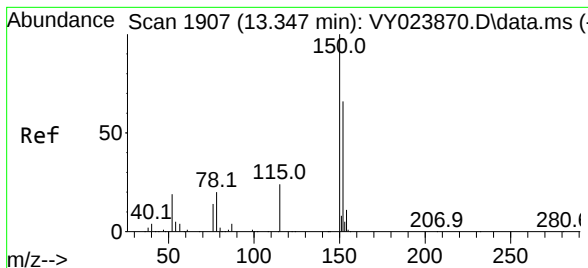
Tgt Ion:106 Resp: 86224
Ion Ratio Lower Upper
106 100
91 189.8 159.7 239.5



#69
o-Xylene
Concen: 1.823 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.000 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion:106 Resp: 29867
Ion Ratio Lower Upper
106 100
91 206.8 104.4 313.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023913.D

Acq: 09 Dec 2025 17:03

Instrument :

MSVOA_Y

ClientSampleId :

SW-7

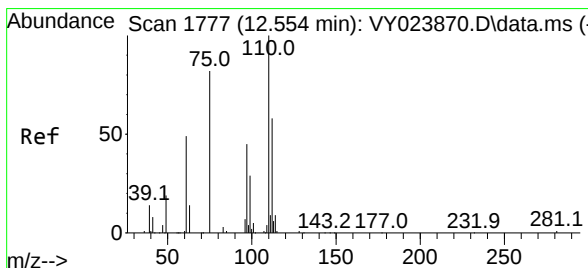
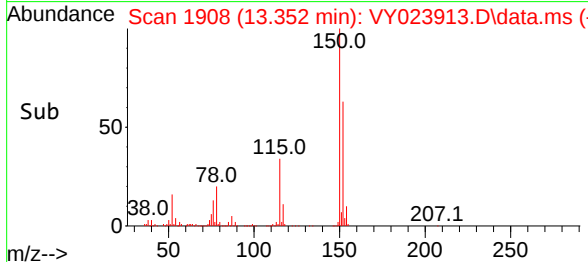
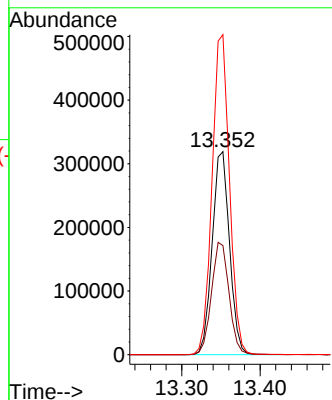
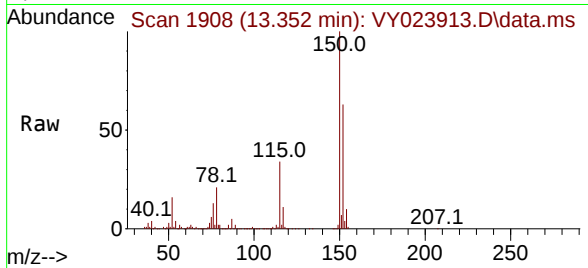
Tgt Ion:152 Resp: 489817

Ion Ratio Lower Upper

152 100

115 56.1 28.8 86.4

150 158.5 0.0 352.2



#76

1,2,3-Trichloropropane

Concen: 47.430 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.147 min

Lab File: VY023913.D

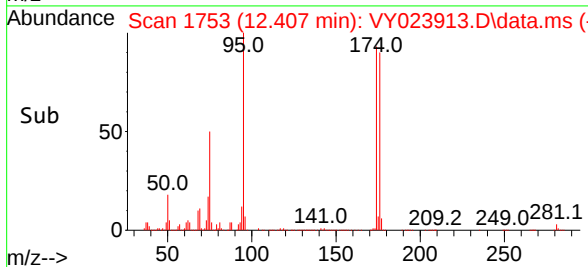
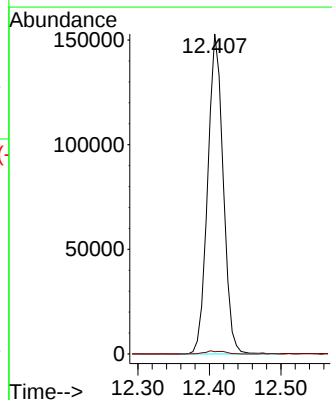
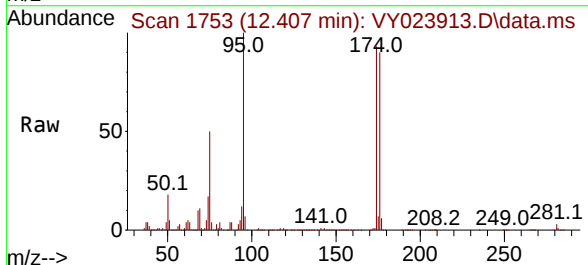
Acq: 09 Dec 2025 17:03

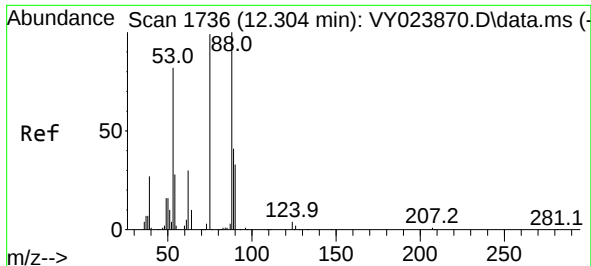
Tgt Ion: 75 Resp: 230318

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

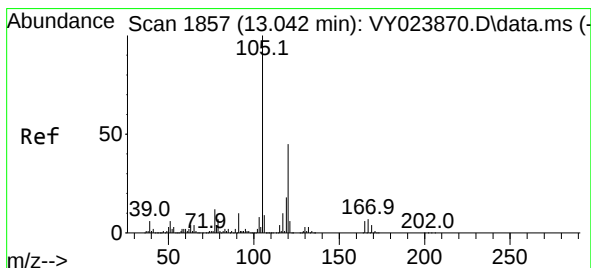
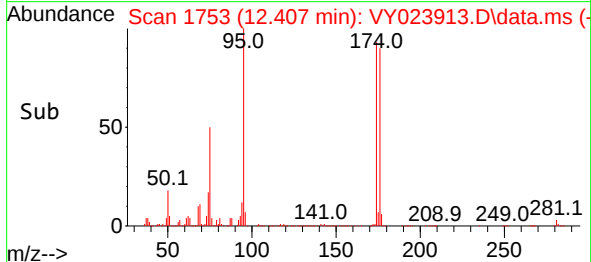
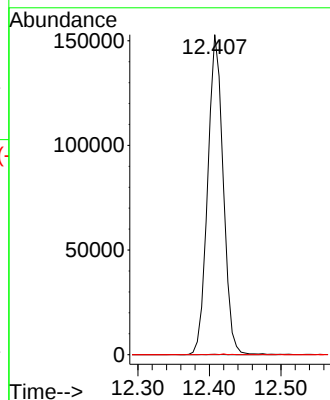
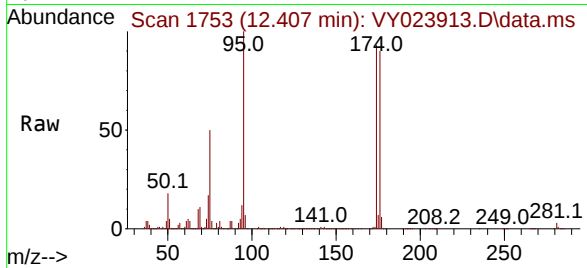




#81
trans-1,4-Dichloro-2-butene
Concen: 113.600 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.103 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Instrument :
MSVOA_Y
ClientSampleId :
SW-7

Tgt Ion: 75 Resp: 230318
Ion Ratio Lower Upper
75 100
53 0.1 71.1 106.7#
89 0.1 36.3 54.5#



#84
1,2,4-Trimethylbenzene
Concen: 1.153 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY023913.D
Acq: 09 Dec 2025 17:03

Tgt Ion: 105 Resp: 33499
Ion Ratio Lower Upper
105 100
120 44.7 22.4 67.3

