

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023920.D
 Acq On : 09 Dec 2025 19:48
 Operator : SY/MD
 Sample : Q3812-01
 Misc : 5.50g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-120825

Quant Time: Dec 10 02:34:37 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)

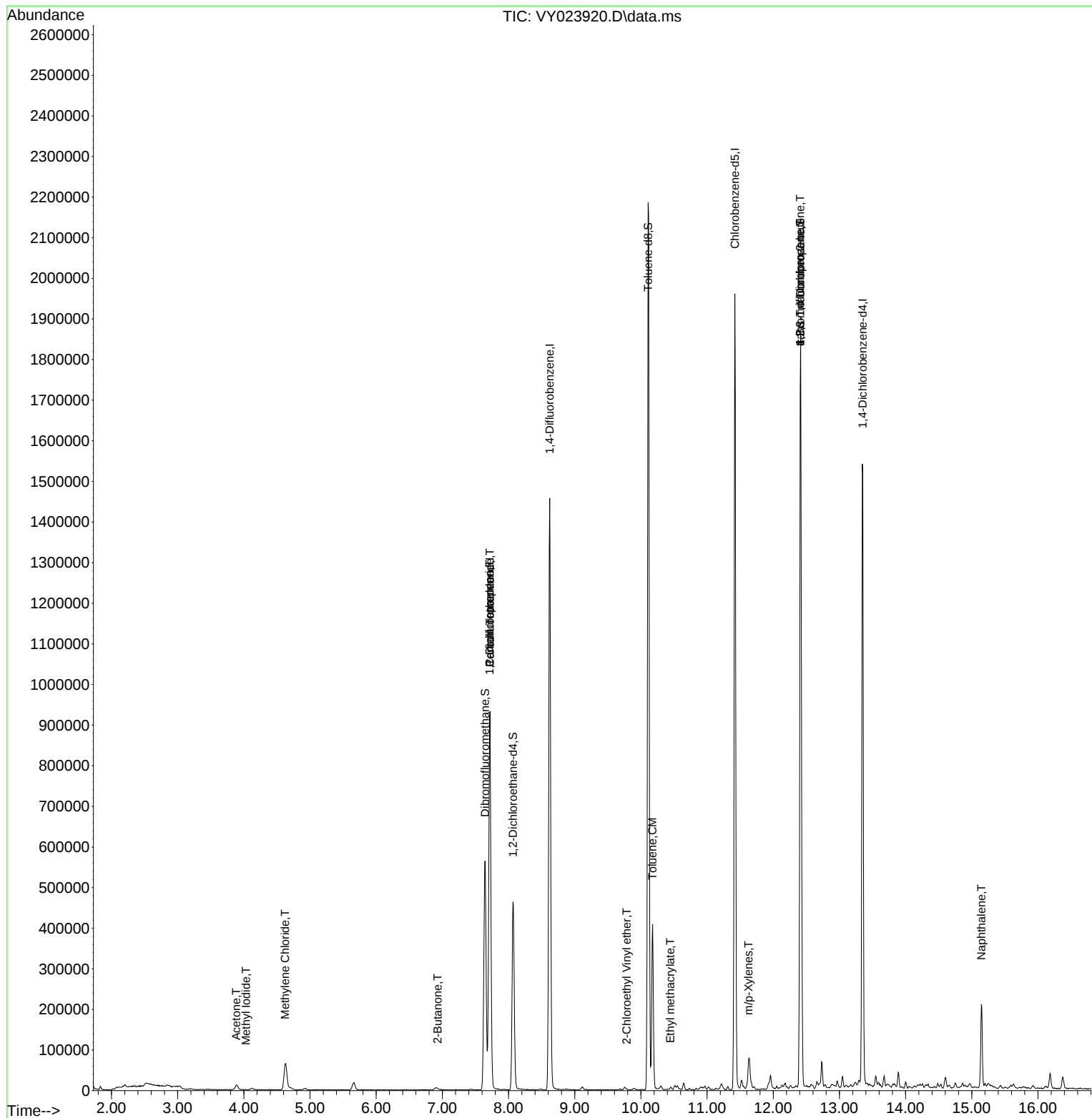
Internal Standards						
1) Pentafluorobenzene	7.719	168	774030	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1313980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1090073	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	419103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	369158	47.676	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.360%		
35) Dibromofluoromethane	7.646	113	410279	48.683	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.360%		
50) Toluene-d8	10.109	98	1474912	44.974	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	89.940%		
62) 4-Bromofluorobenzene	12.408	95	422191	37.744	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	75.480%		
Target Compounds						Qvalue
10) Methyl Iodide	4.031	142	162	2.458	ug/l #	39
11) Tert butyl alcohol	4.878	59	507	Below Cal	#	74
16) Acetone	3.885	43	22622	9.750	ug/l	92
20) Methylene Chloride	4.622	84	51862	4.506	ug/l	92
25) 2-Butanone	6.927	43	3192	1.141	ug/l	99
36) 1,1-Dichloropropene	7.713	75	50155	4.036	ug/l #	51
38) Carbon Tetrachloride	7.719	117	69214	5.047	ug/l #	17
52) Toluene	10.176	92	175916	7.479	ug/l	99
56) Ethyl methacrylate	10.445	69	635	4.212	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.786	63	26	14.723	ug/l #	47
68) m/p-Xylenes	11.627	106	21033	1.279	ug/l	99
76) 1,2,3-Trichloropropane	12.408	75	213855	51.471	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	213855	123.278	ug/l #	14
95) Naphthalene	15.145	128	178710	14.555	ug/l	100

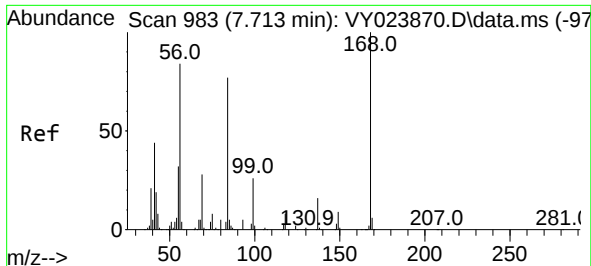
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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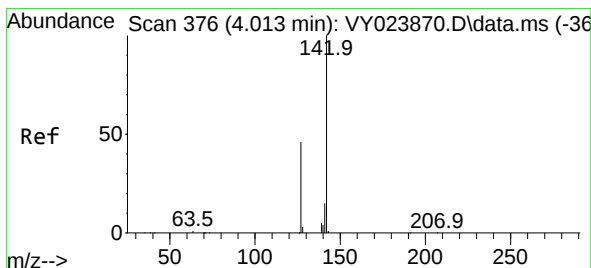
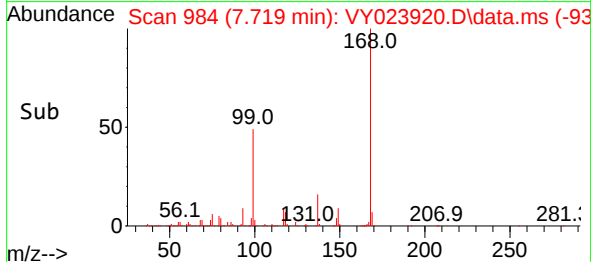
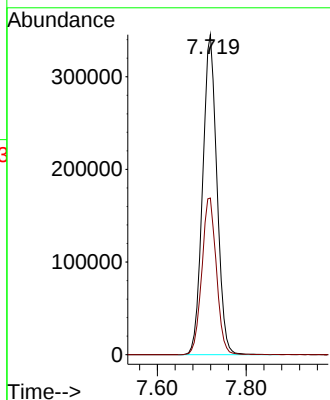
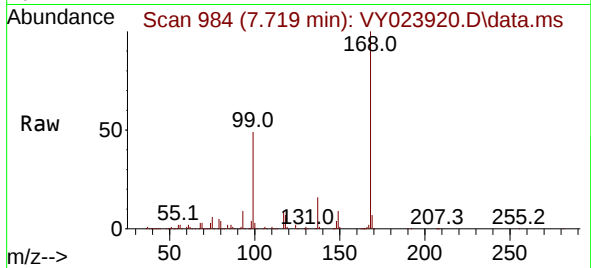




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

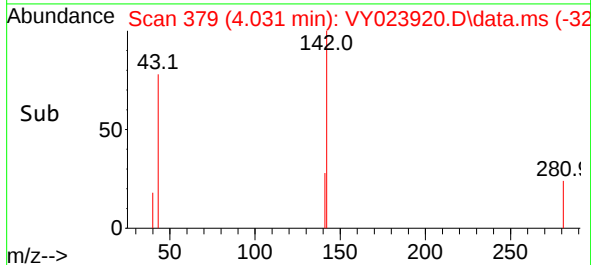
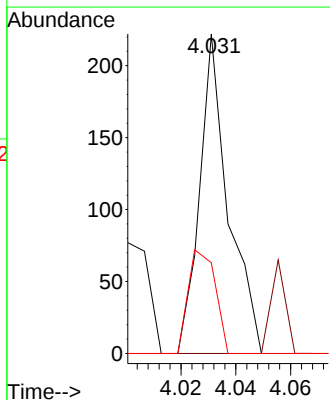
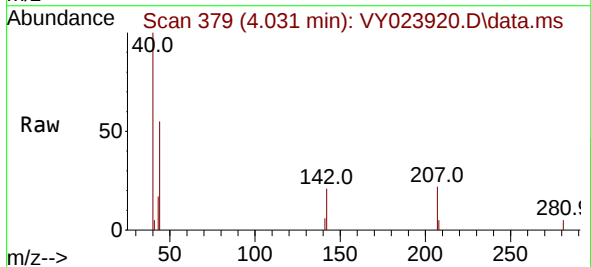
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-120825

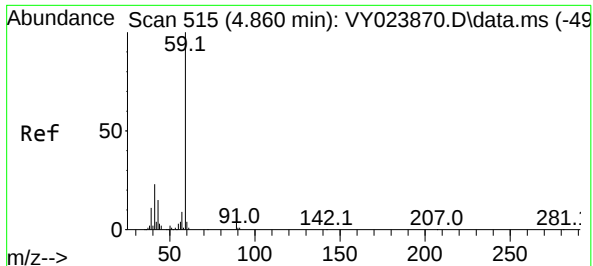
Tgt Ion:168 Resp: 774030
Ion Ratio Lower Upper
168 100
99 49.0 42.5 63.7



#10
Methyl Iodide
Concen: 2.458 ug/l
RT: 4.031 min Scan# 379
Delta R.T. 0.018 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Tgt Ion:142 Resp: 162
Ion Ratio Lower Upper
142 100
127 0.0 36.1 54.1#
141 30.2 11.8 17.8#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.878 min Scan# 515

Delta R.T. 0.018 min

Lab File: VY023920.D

Acq: 09 Dec 2025 19:48

Instrument :

MSVOA_Y

ClientSampleId :

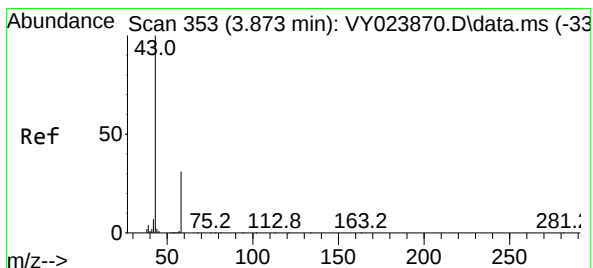
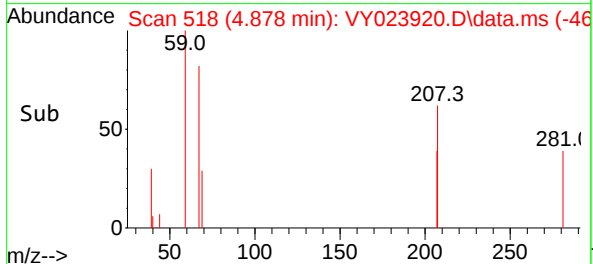
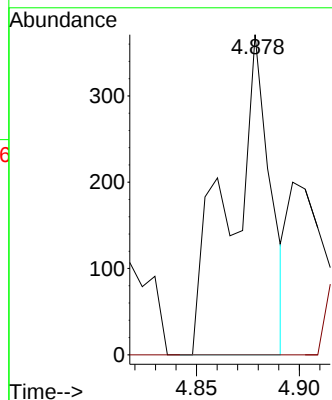
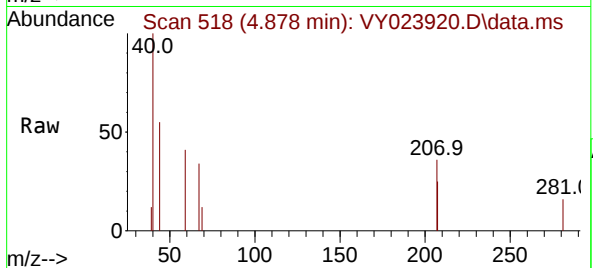
OR-02-120825

Tgt Ion: 59 Resp: 507

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#16

Acetone

Concen: 9.750 ug/l

RT: 3.885 min Scan# 355

Delta R.T. 0.012 min

Lab File: VY023920.D

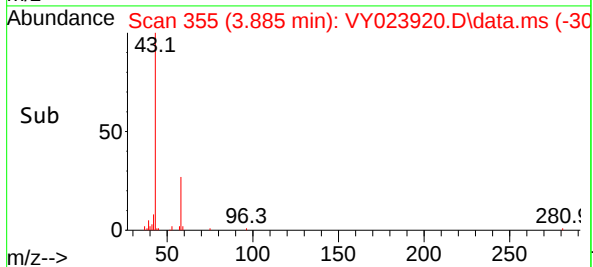
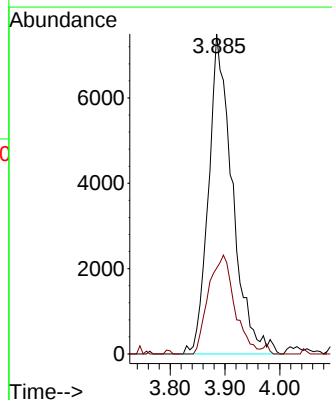
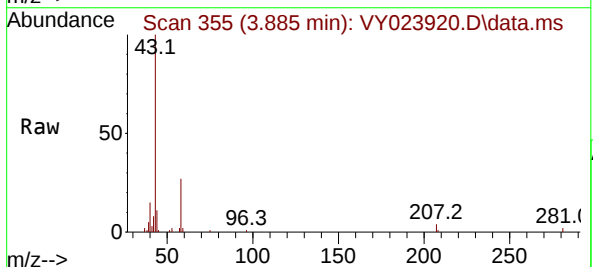
Acq: 09 Dec 2025 19:48

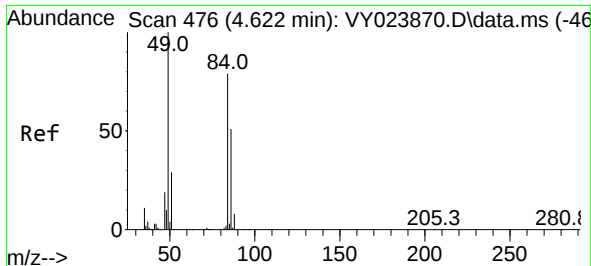
Tgt Ion: 43 Resp: 22622

Ion Ratio Lower Upper

43 100

58 26.8 25.1 37.7

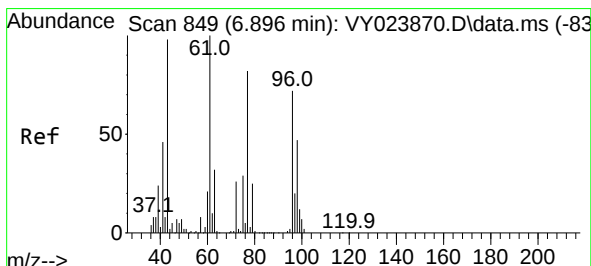
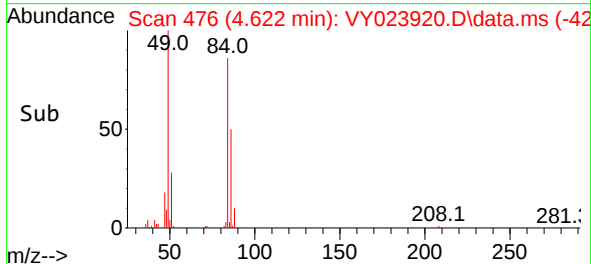
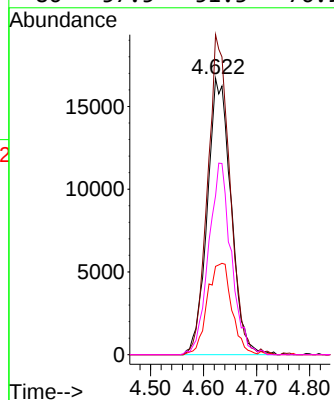
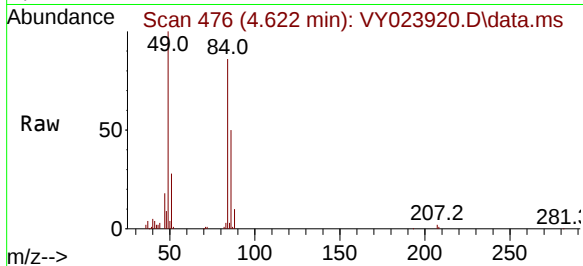




#20
Methylene Chloride
Concen: 4.506 ug/l
RT: 4.622 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

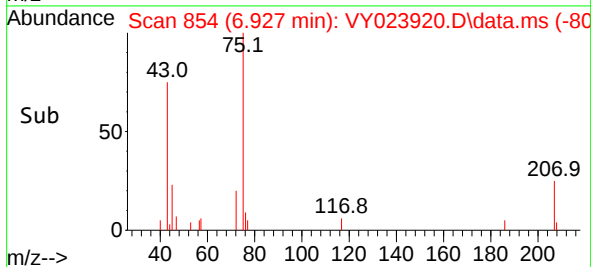
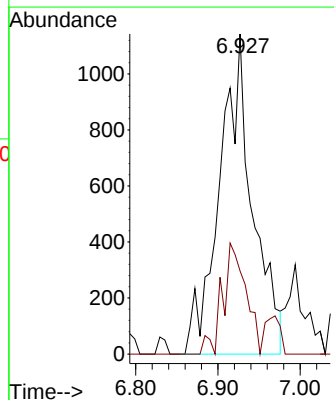
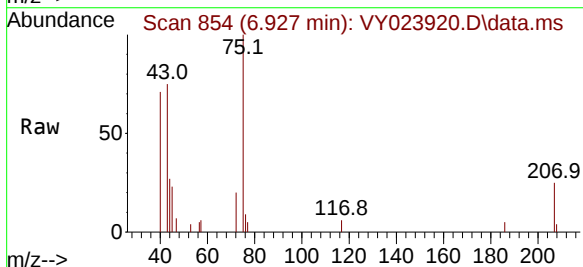
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-120825

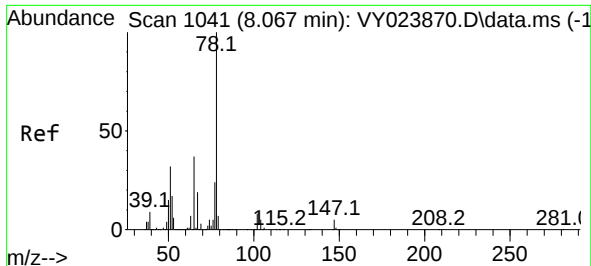
Tgt Ion:	84	Resp:	51862
Ion	Ratio	Lower	Upper
84	100		
49	115.8	100.6	151.0
51	32.0	29.0	43.6
86	57.5	51.3	76.9



#25
2-Butanone
Concen: 1.141 ug/l
RT: 6.927 min Scan# 854
Delta R.T. 0.030 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Tgt Ion:	43	Resp:	3192
Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.0	31.6





#33

1,2-Dichloroethane-d4

Concen: 47.676 ug/l

RT: 8.067 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY023920.D

Acq: 09 Dec 2025 19:48

Instrument :

MSVOA_Y

ClientSampleId :

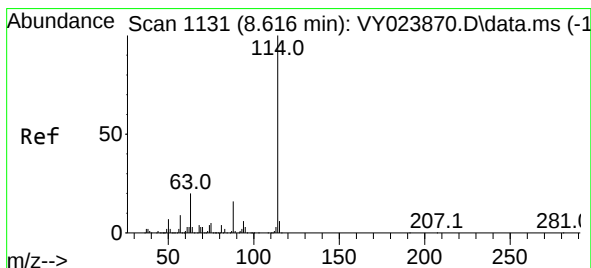
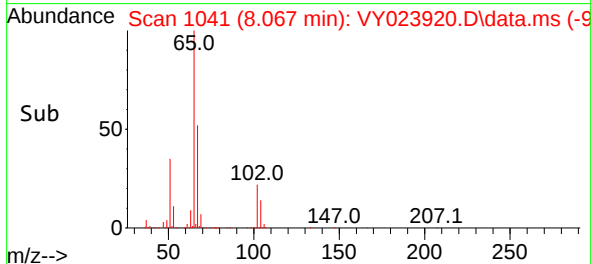
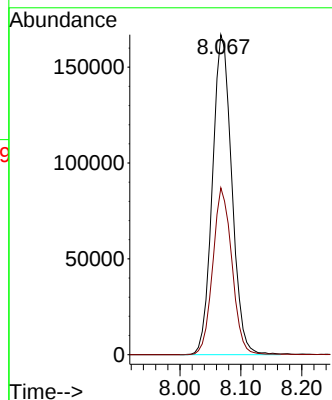
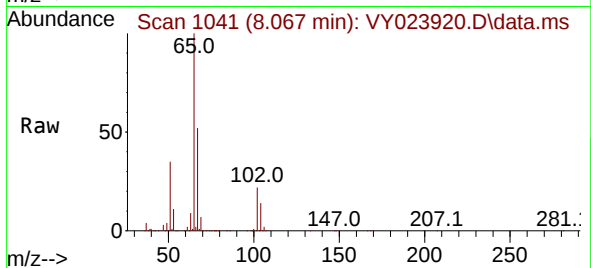
OR-02-120825

Tgt Ion: 65 Resp: 369158

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: VY023920.D

Acq: 09 Dec 2025 19:48

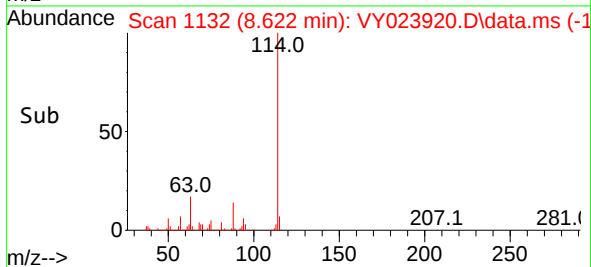
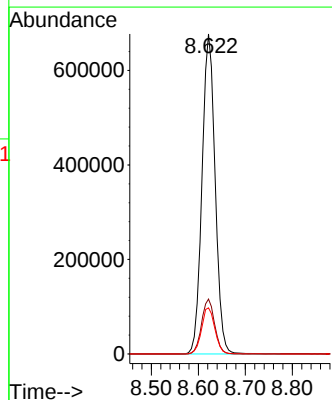
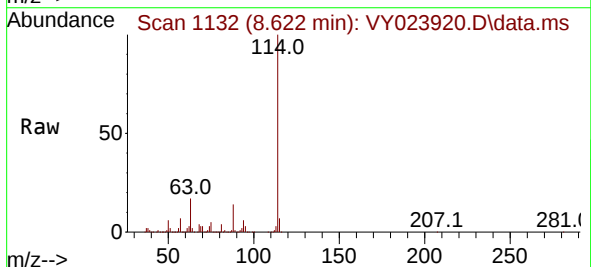
Tgt Ion:114 Resp: 1313980

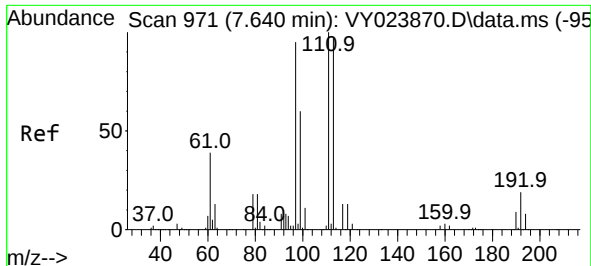
Ion Ratio Lower Upper

114 100

63 17.1 0.0 39.2

88 14.4 0.0 31.4

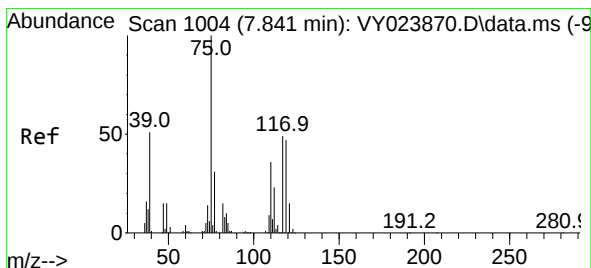
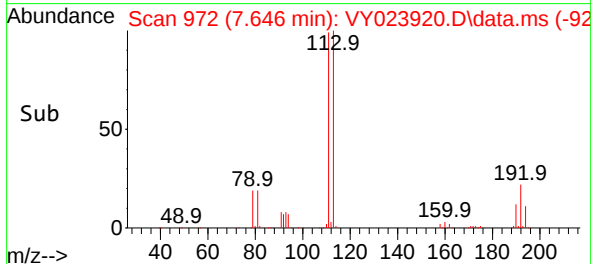
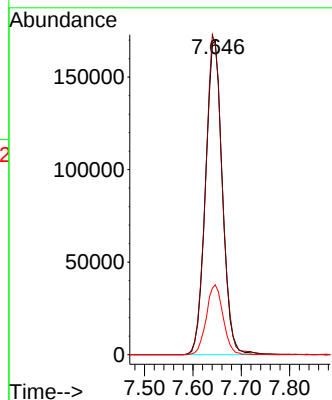
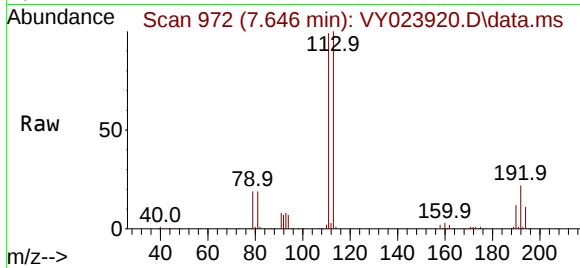




#35
Dibromofluoromethane
Concen: 48.683 ug/l
RT: 7.646 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

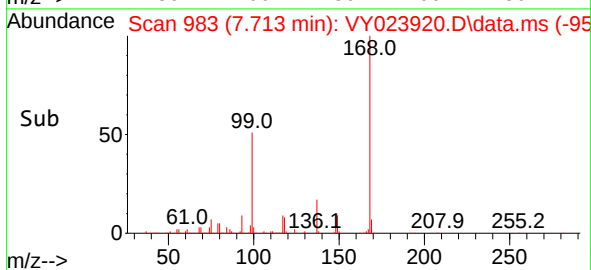
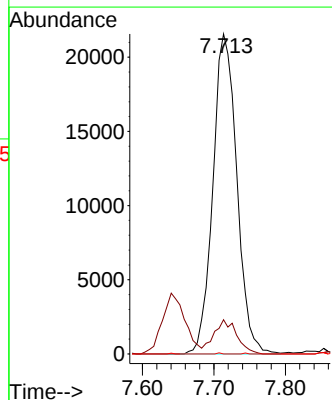
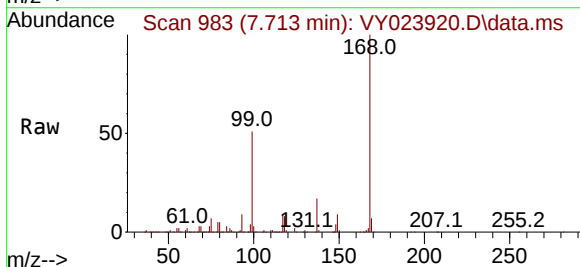
Instrument :
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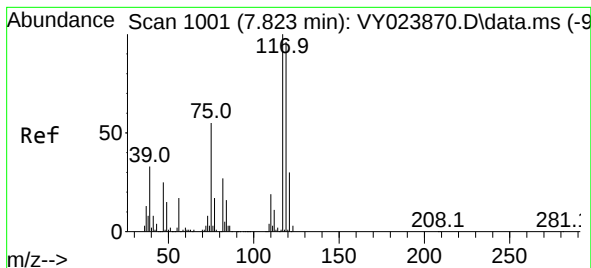
Tgt Ion:113 Resp: 410279
Ion Ratio Lower Upper
113 100
111 101.3 82.2 123.2
192 22.2 15.8 23.8



#36
1,1-Dichloropropene
Concen: 4.036 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.128 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Tgt Ion: 75 Resp: 50155
Ion Ratio Lower Upper
75 100
110 10.2 17.6 52.9#
77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.047 ug/l

RT: 7.719 min Scan# 9

Delta R.T. -0.104 min

Lab File: VY023920.D

Acq: 09 Dec 2025 19:48

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-120825

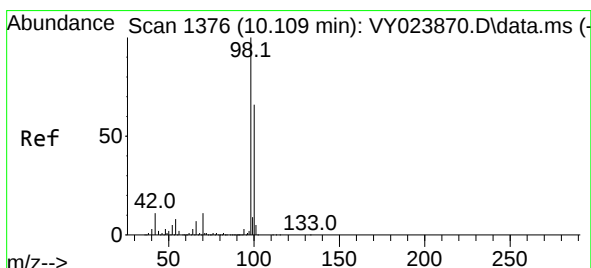
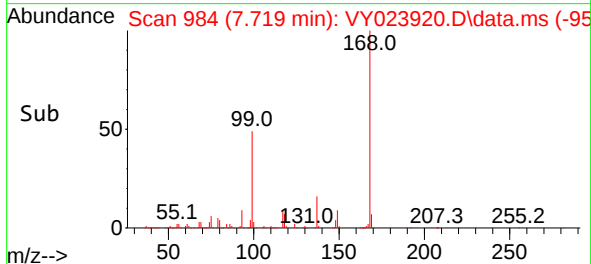
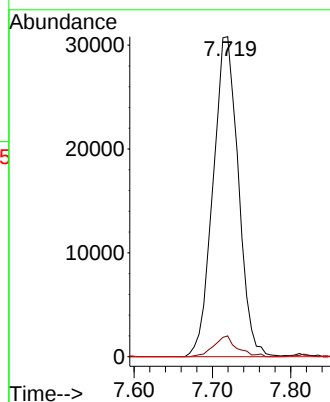
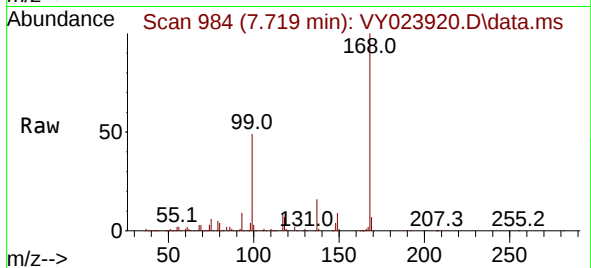
Tgt Ion:117 Resp: 69214

Ion Ratio Lower Upper

117 100

119 6.5 77.0 115.6#

121 0.0 23.9 35.9#



#50

Toluene-d8

Concen: 44.974 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY023920.D

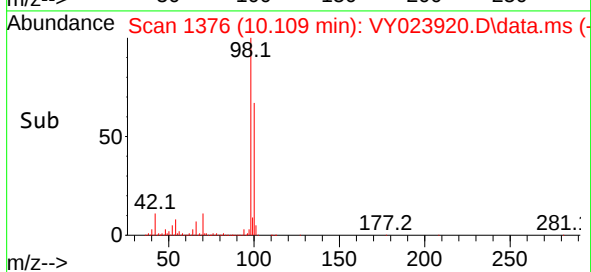
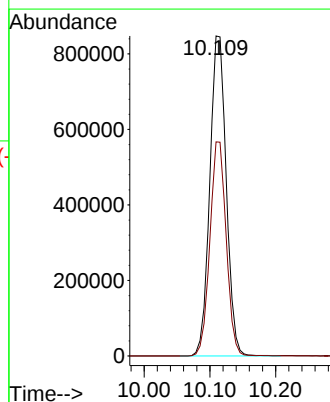
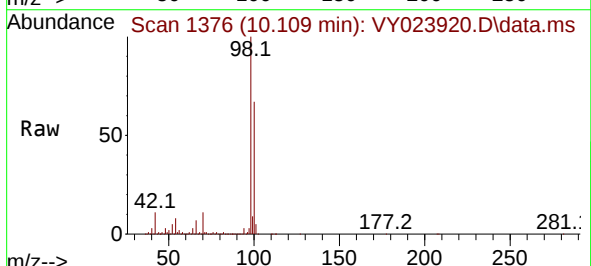
Acq: 09 Dec 2025 19:48

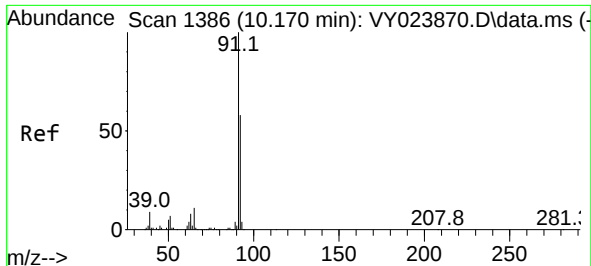
Tgt Ion: 98 Resp: 1474912

Ion Ratio Lower Upper

98 100

100 66.3 52.5 78.7

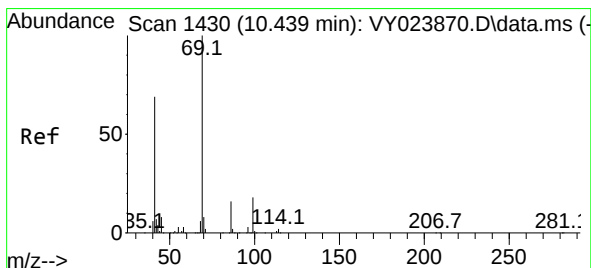
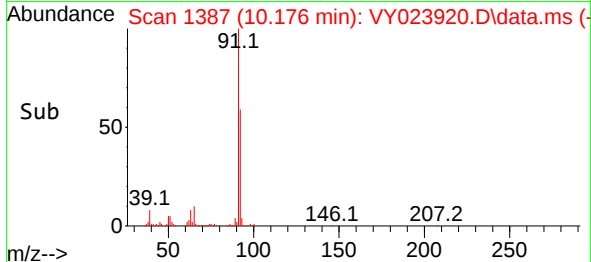
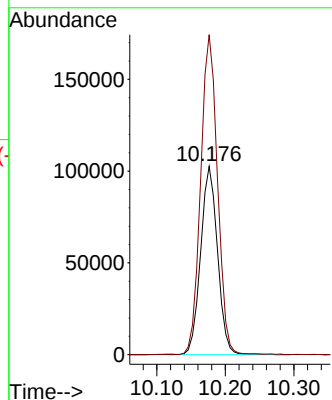
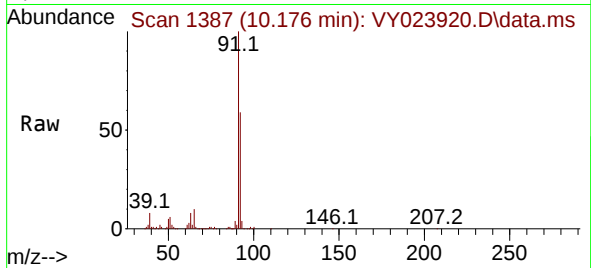




#52
Toluene
Concen: 7.479 ug/l
RT: 10.176 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

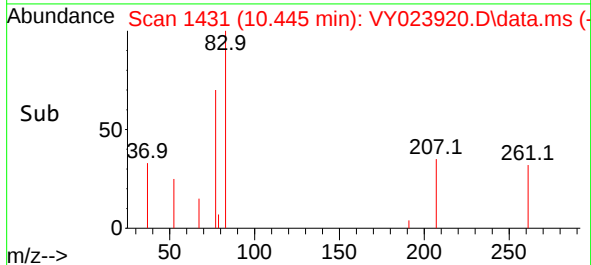
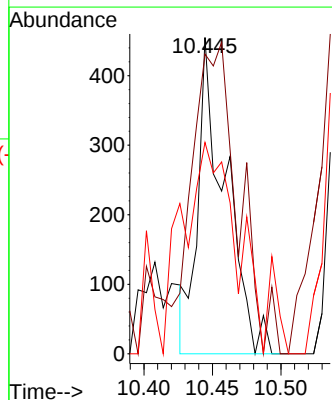
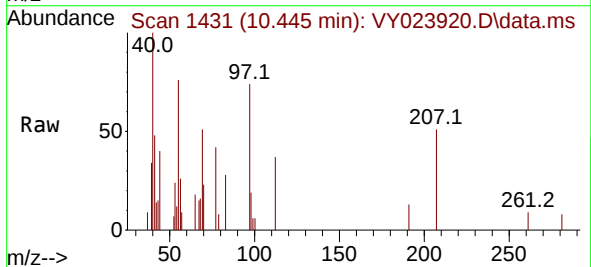
Instrument :
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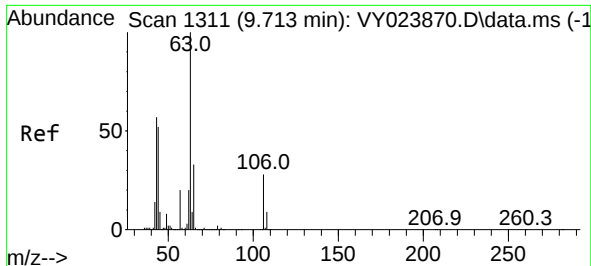
Tgt Ion: 92 Resp: 175916
Ion Ratio Lower Upper
92 100
91 169.9 137.3 205.9



#56
Ethyl methacrylate
Concen: 4.212 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Tgt Ion: 69 Resp: 635
Ion Ratio Lower Upper
69 100
41 163.0 52.5 78.7#
39 128.8 27.1 40.7#

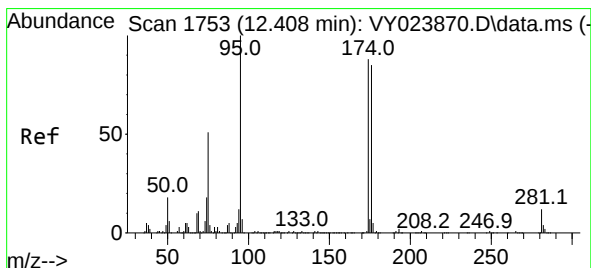
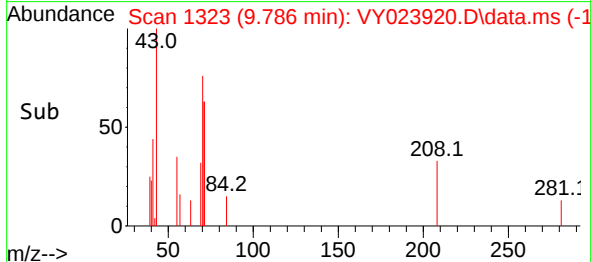
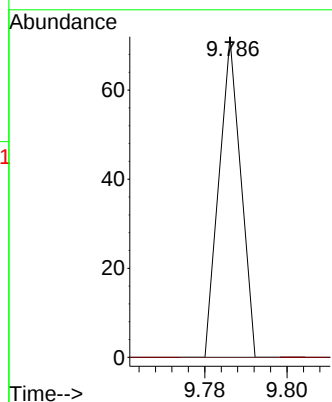
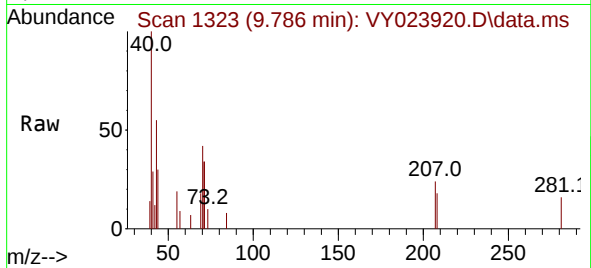




#58
2-Chloroethyl Vinyl ether
Concen: 14.723 ug/l
RT: 9.786 min Scan# 11
Delta R.T. 0.073 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

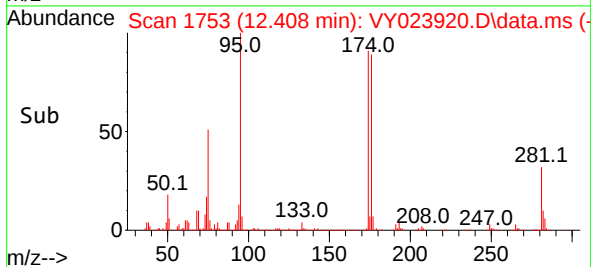
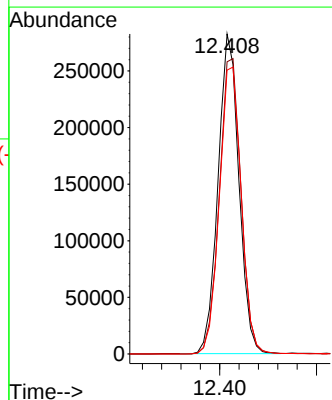
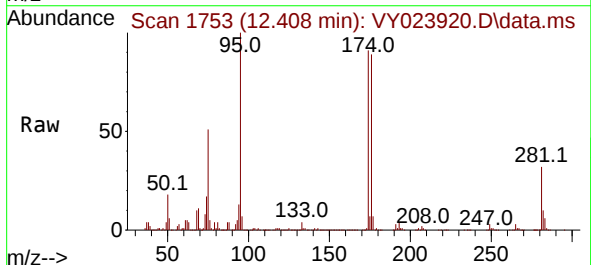
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-120825

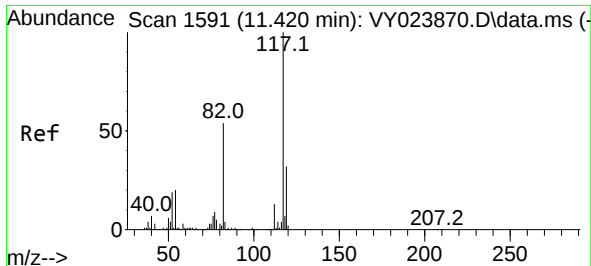
Tgt Ion: 63 Resp: 26
Ion Ratio Lower Upper
63 100
106 0.0 22.5 33.7#



#62
4-Bromofluorobenzene
Concen: 37.744 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Tgt Ion: 95 Resp: 422191
Ion Ratio Lower Upper
95 100
174 96.3 0.0 169.6
176 94.2 0.0 164.4

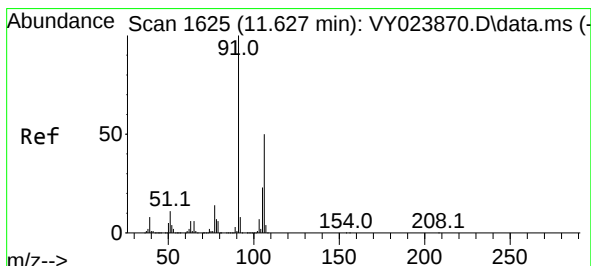
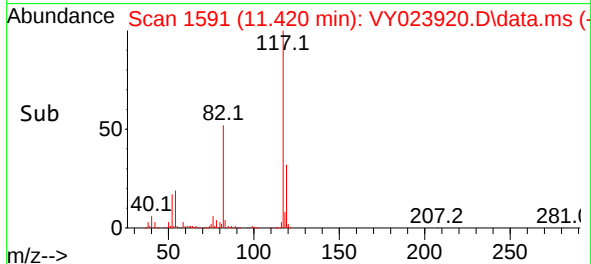
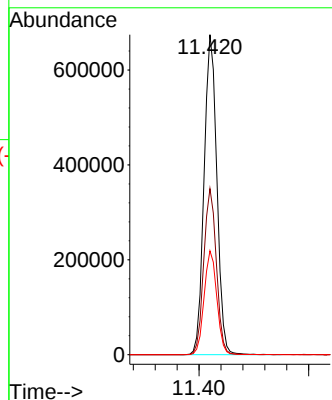
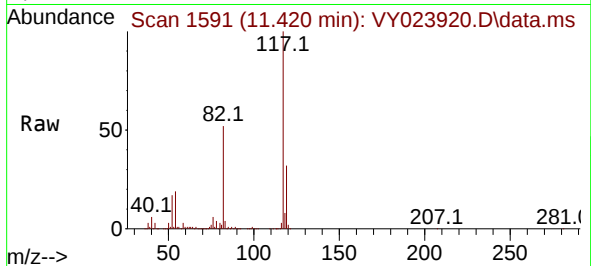




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

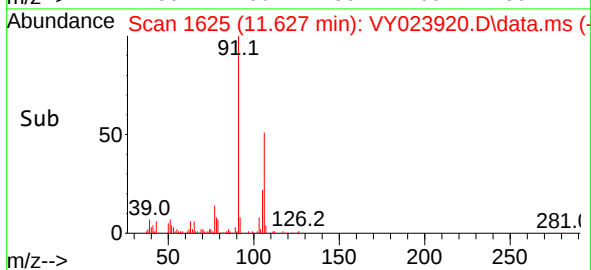
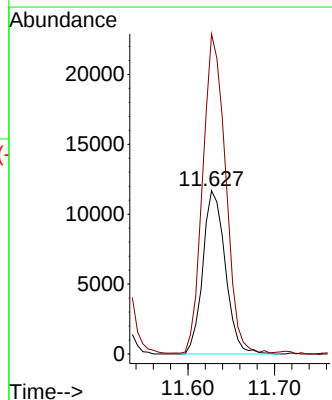
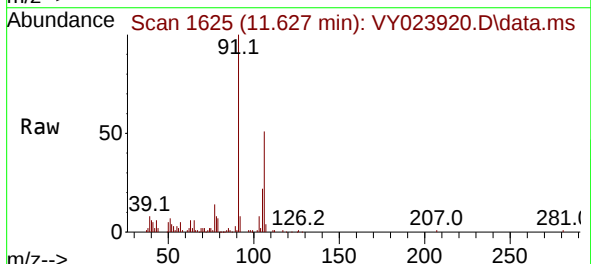
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-120825

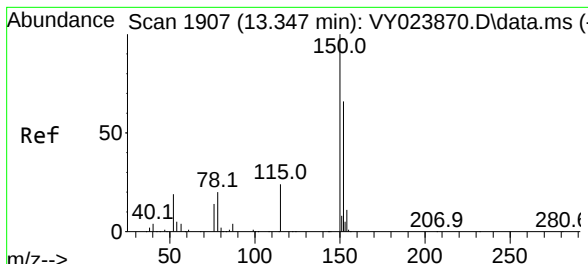
Tgt Ion:117 Resp: 1090073
Ion Ratio Lower Upper
117 100
82 51.9 43.1 64.7
119 32.5 26.0 39.0



#68
m/p-Xylenes
Concen: 1.279 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Tgt Ion:106 Resp: 21033
Ion Ratio Lower Upper
106 100
91 197.9 159.7 239.5

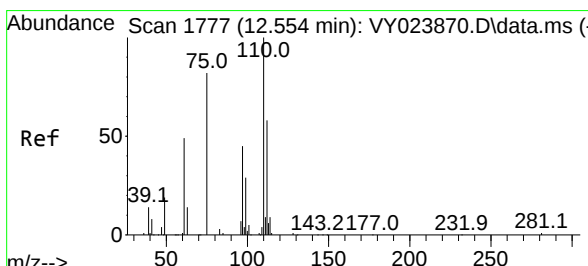
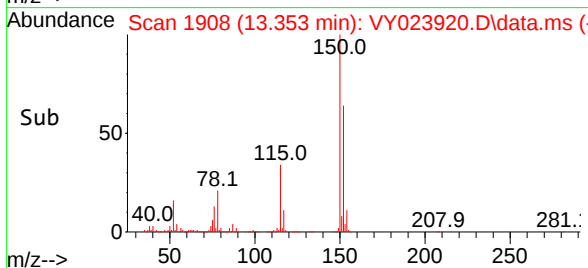
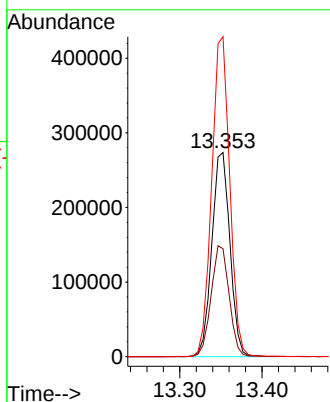
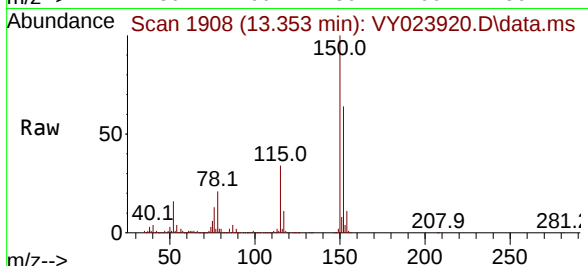




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.353 min Scan# 1908
 Delta R.T. 0.006 min
 Lab File: VY023920.D
 Acq: 09 Dec 2025 19:48

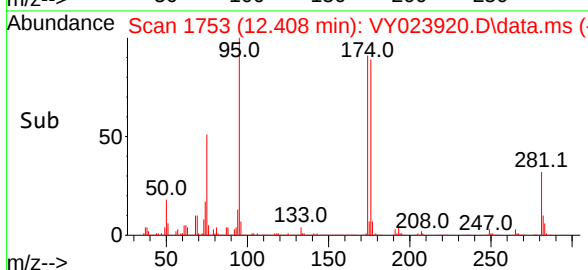
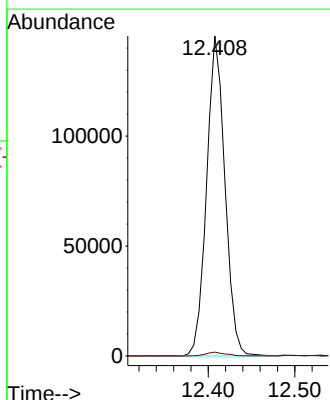
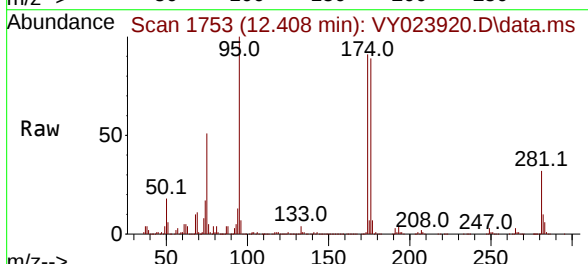
Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-120825

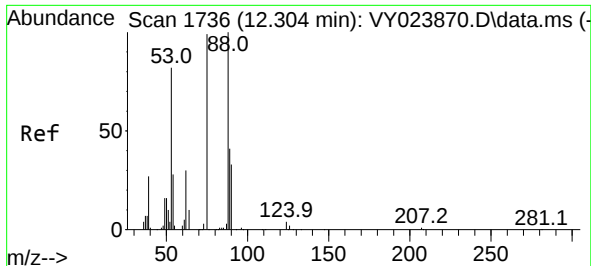
Tgt Ion:	152	Resp:	419103
Ion	Ratio	Lower	Upper
152	100		
115	54.0	28.8	86.4
150	155.9	0.0	352.2



#76
 1,2,3-Trichloropropane
 Concen: 51.471 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.146 min
 Lab File: VY023920.D
 Acq: 09 Dec 2025 19:48

Tgt Ion:	75	Resp:	213855
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#

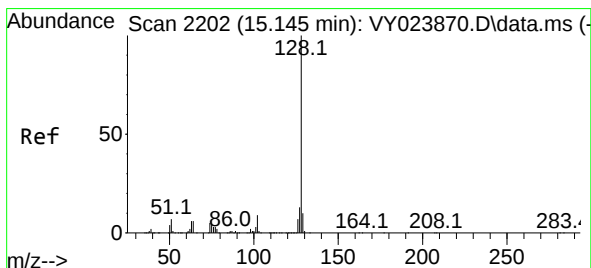
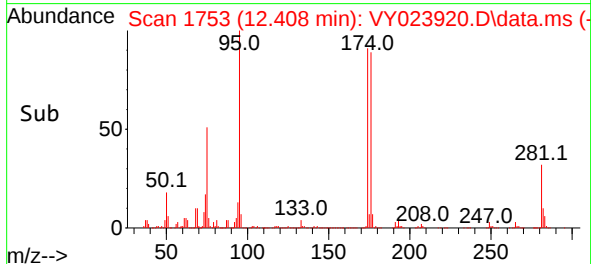
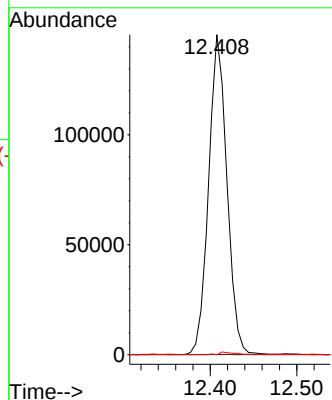
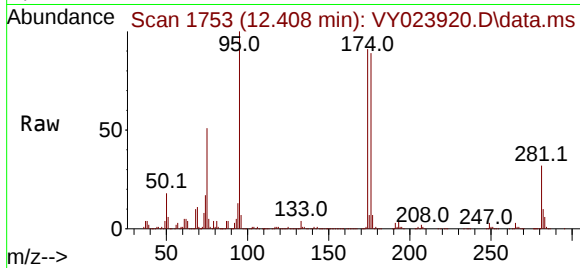




#81
trans-1,4-Dichloro-2-butene
Concen: 123.278 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Instrument :
MSVOA_Y
ClientSampleId :
OR-02-120825

Tgt Ion: 75 Resp: 213855
Ion Ratio Lower Upper
75 100
53 0.1 71.1 106.7#
89 0.7 36.3 54.5#



#95
Naphthalene
Concen: 14.555 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY023920.D
Acq: 09 Dec 2025 19:48

Tgt Ion: 128 Resp: 178710
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 11.1 8.7 13.1

