

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
 Data File : VY022374.D
 Acq On : 21 May 2025 17:52
 Operator : SY/MD
 Sample : Q2087-03
 Misc : 5.23g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 NB-08-05202025

Quant Time: May 22 00:14:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	8844	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	13543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	9134	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	1807	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	3778	39.087	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	78.180%
35) Dibromofluoromethane	7.646	113	2221	27.477	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	54.960%
50) Toluene-d8	10.109	98	14727	44.485	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	88.980%
62) 4-Bromofluorobenzene	12.408	95	2453	23.377	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	46.760%

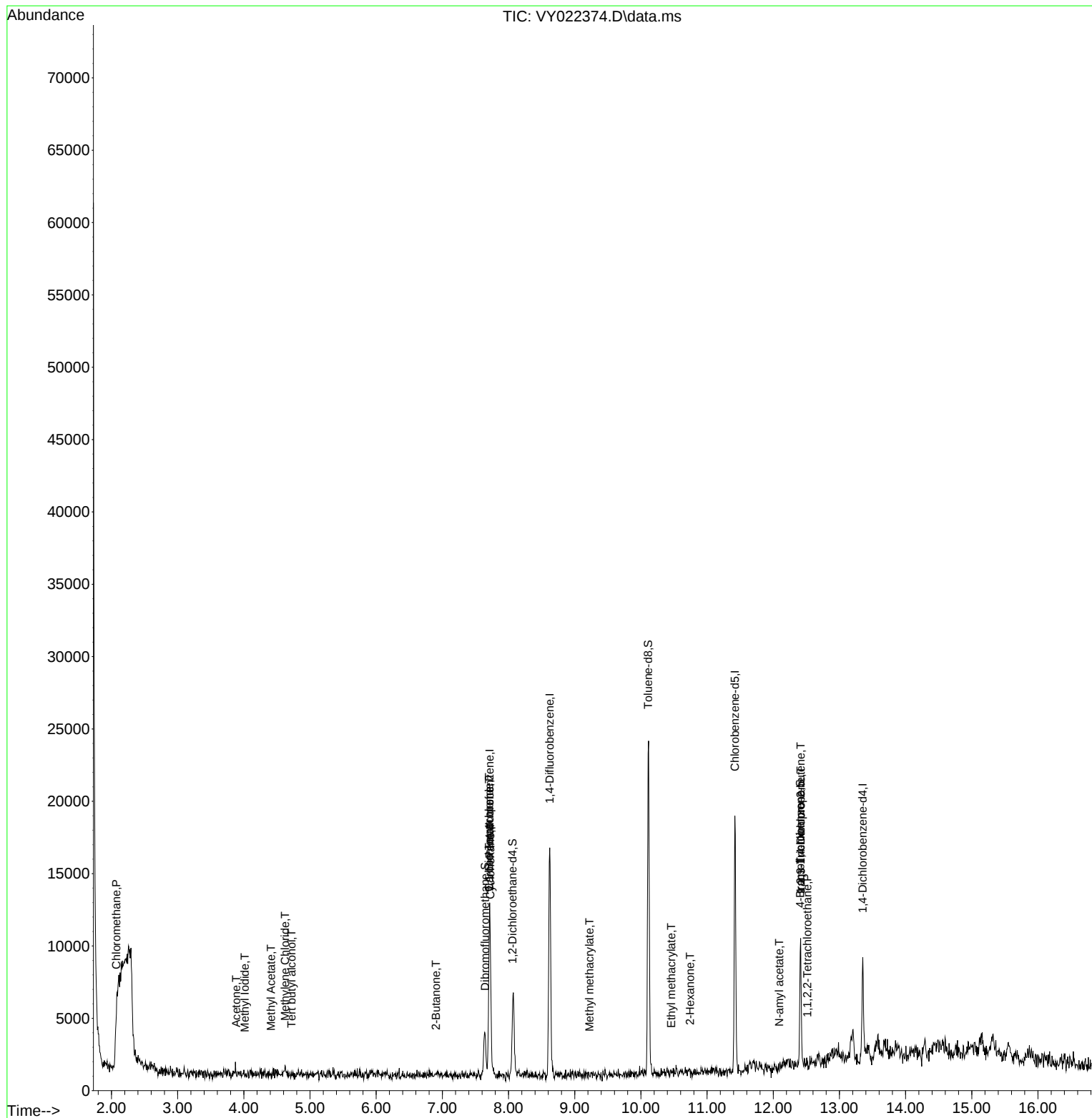
Target Compounds			Qvalue			
3) Chloromethane	2.074	50	225	1.159	ug/l #	42
10) Methyl Iodide	4.013	142	116	1.051	ug/l #	40
11) Tert butyl alcohol	4.720	59	21	2.845	ug/l #	100
16) Acetone	3.885	43	103	5.683	ug/l #	45
18) Methyl Acetate	4.409	43	131	2.293	ug/l #	53
20) Methylene Chloride	4.623	84	215	1.836	ug/l #	74
25) 2-Butanone	6.903	43	53	1.748	ug/l #	47
31) Cyclohexane	7.726	56	275	1.406	ug/l #	39
36) 1,1-Dichloropropene	7.707	75	662	4.972	ug/l #	43
38) Carbon Tetrachloride	7.707	117	1020	7.401	ug/l #	13
48) Methyl methacrylate	9.225	41	210	3.214	ug/l #	14
56) Ethyl methacrylate	10.457	69	124	1.211	ug/l #	67
59) 2-Hexanone	10.743	43	79	1.719	ug/l #	26
74) N-amyl acetate	12.091	43	212	4.952	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.517	83	114	4.952	ug/l #	26
76) 1,2,3-Trichloropropane	12.414	75	1420	77.567	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.414	75	1420	157.131	ug/l #	12

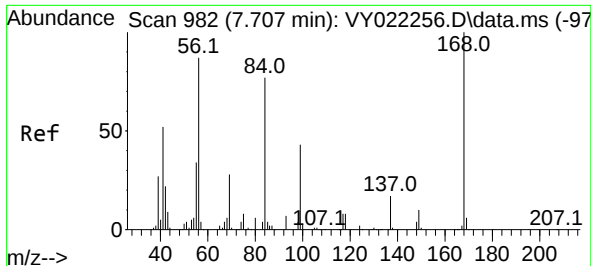
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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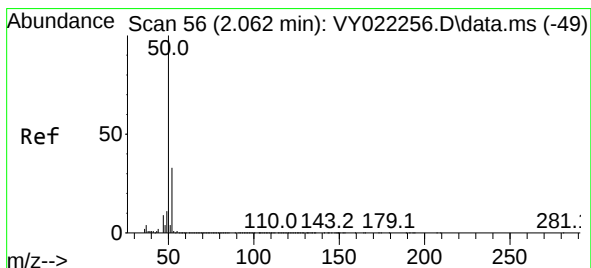
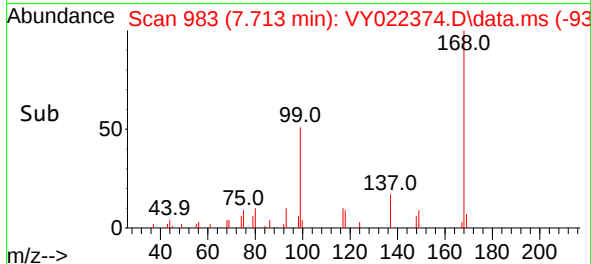
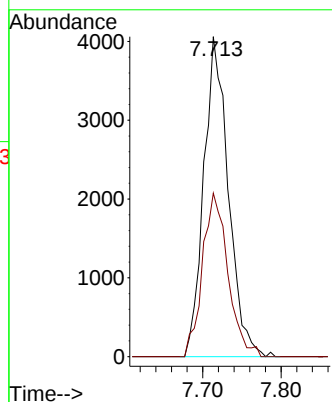
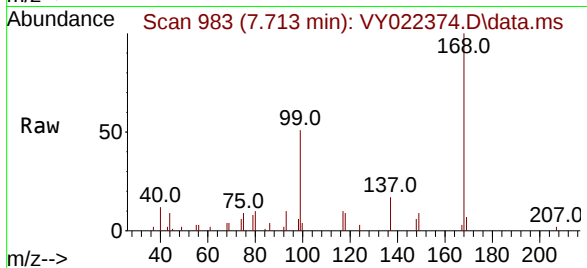




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

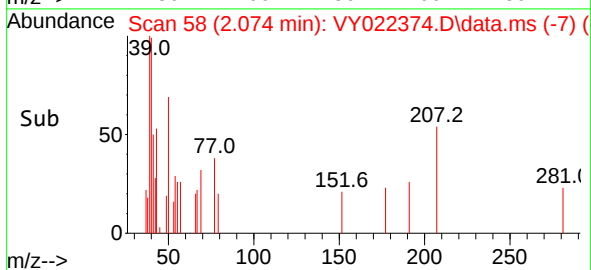
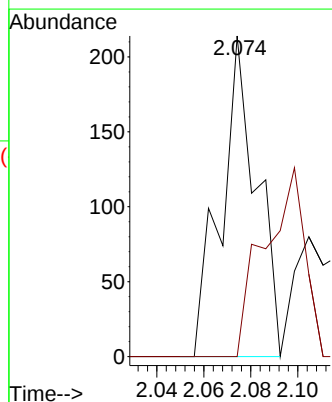
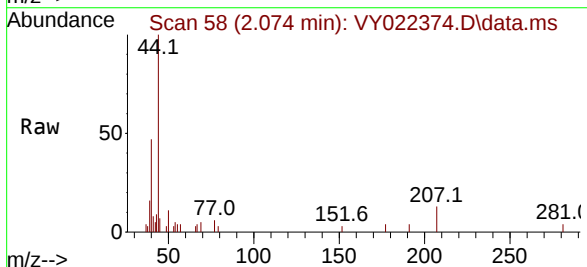
Instrument :
MSVOA_Y
ClientSampleId :
NB-08-05202025

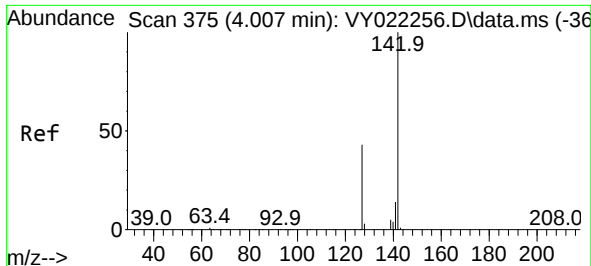
Tgt Ion:168 Resp: 8844
Ion Ratio Lower Upper
168 100
99 51.1 44.2 66.4



#3
Chloromethane
Concen: 1.159 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.012 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion: 50 Resp: 225
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#





#10

Methyl Iodide

Concen: 1.051 ug/l

RT: 4.013 min Scan# 31

Delta R.T. 0.006 min

Lab File: VY022374.D

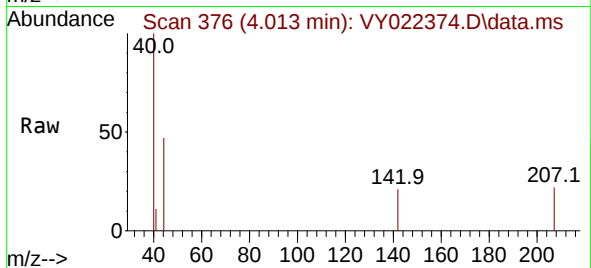
Acq: 21 May 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

NB-08-05202025



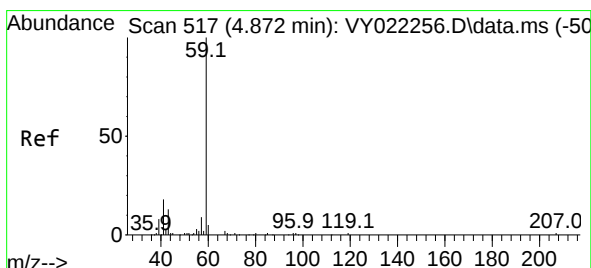
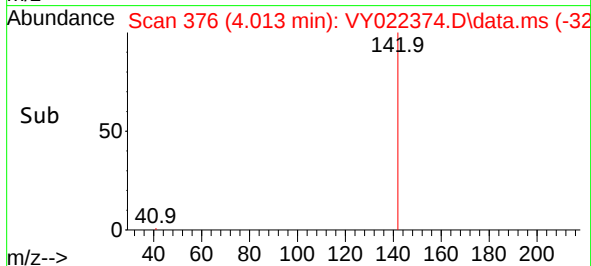
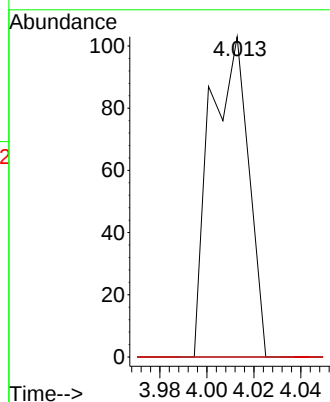
Tgt Ion:142 Resp: 116

Ion Ratio Lower Upper

142 100

127 0.0 35.7 53.5#

141 0.0 11.1 16.7#



#11

Tert butyl alcohol

Concen: 2.845 ug/l

RT: 4.720 min Scan# 492

Delta R.T. -0.152 min

Lab File: VY022374.D

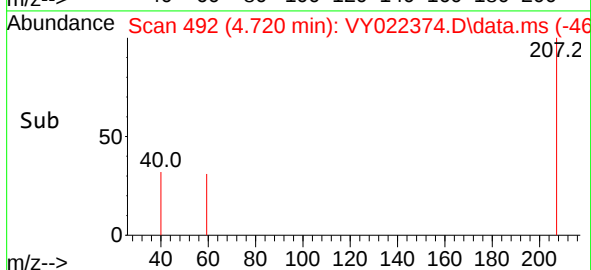
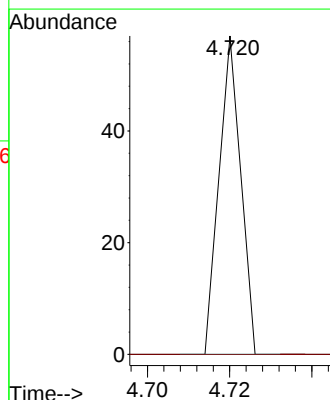
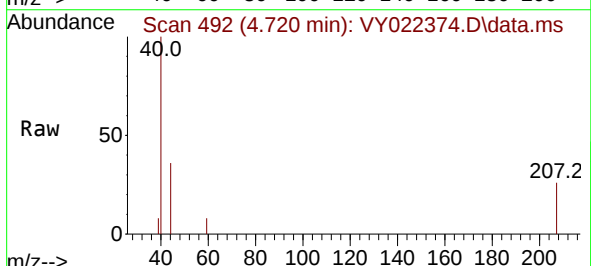
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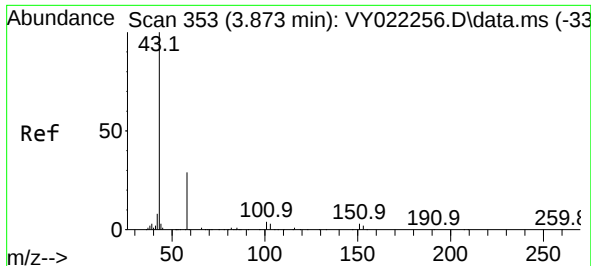
Tgt Ion: 59 Resp: 21

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0

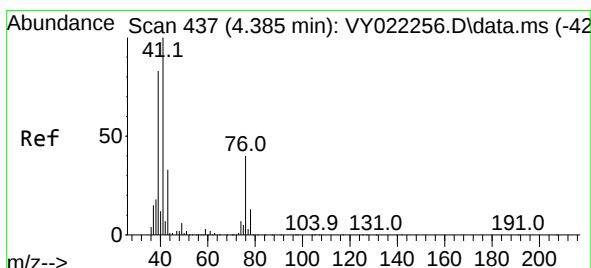
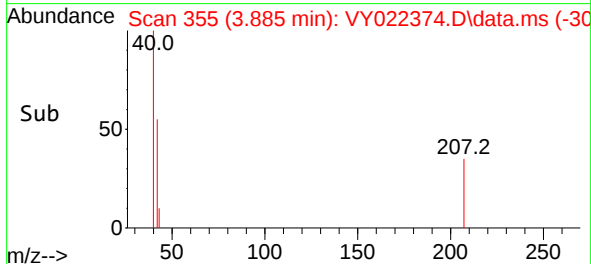
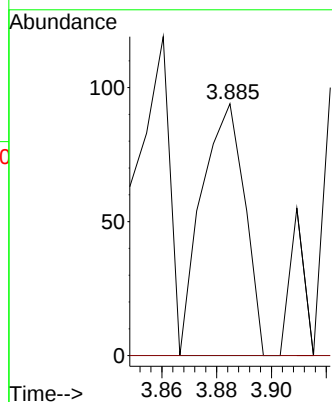
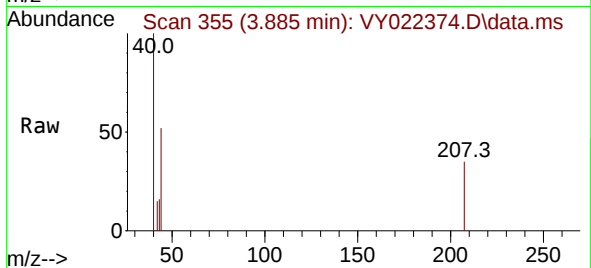




#16
Acetone
Concen: 5.683 ug/l
RT: 3.885 min Scan# 311
Delta R.T. 0.012 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

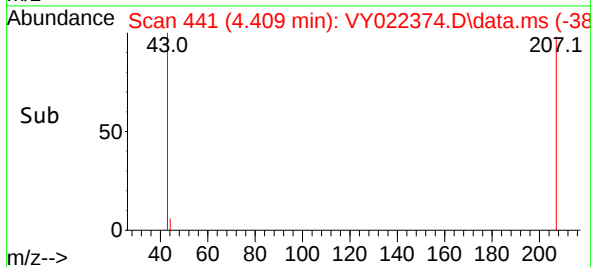
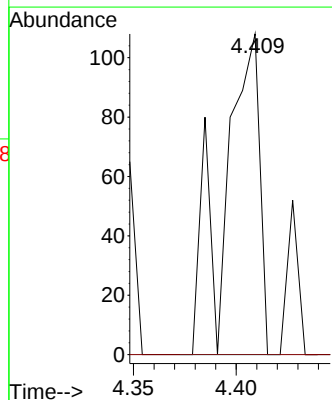
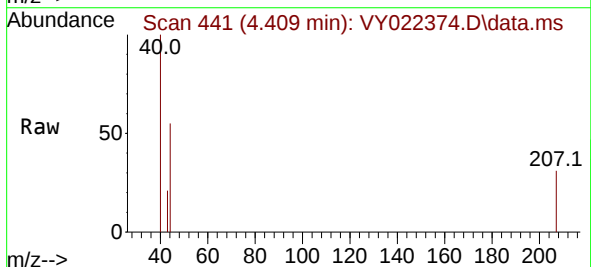
Instrument :
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NB-08-05202025

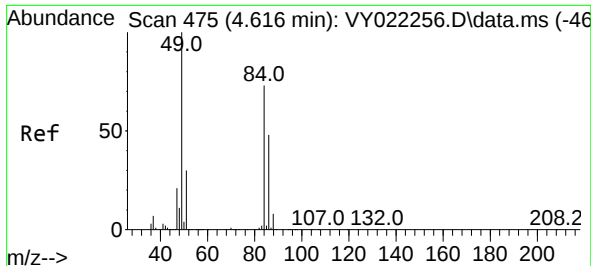
Tgt Ion: 43 Resp: 103
Ion Ratio Lower Upper
43 100
58 0.0 23.6 35.4#



#18
Methyl Acetate
Concen: 2.293 ug/l
RT: 4.409 min Scan# 441
Delta R.T. 0.025 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
74 0.0 18.2 27.4#

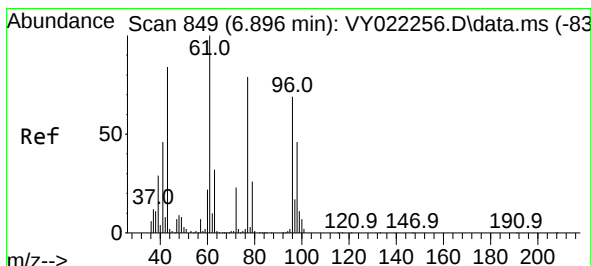
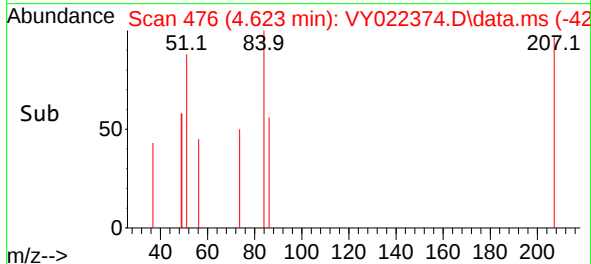
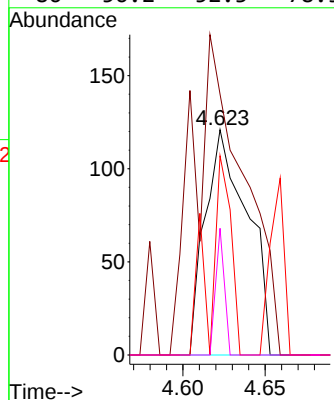
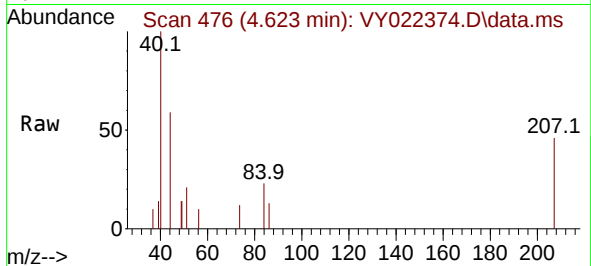




#20
Methylene Chloride
Concen: 1.836 ug/l
RT: 4.623 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

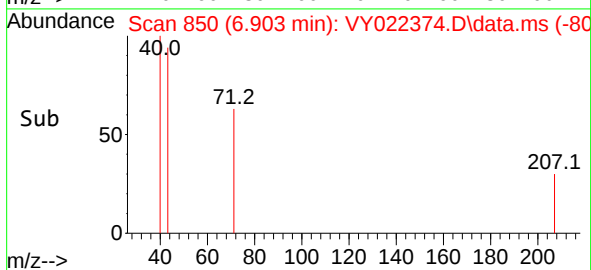
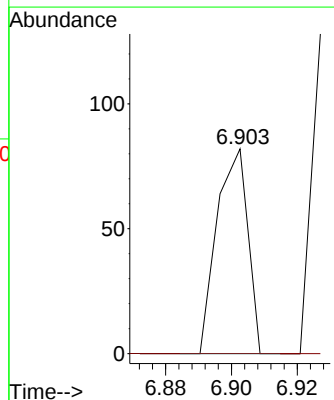
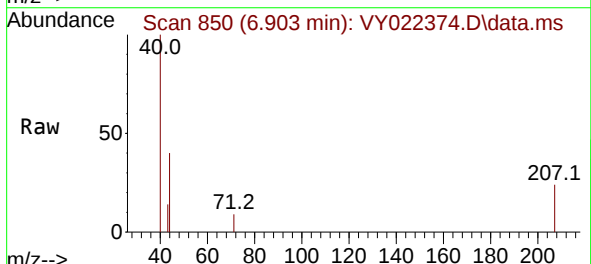
Instrument :
MSVOA_Y
ClientSampleId :
NB-08-05202025

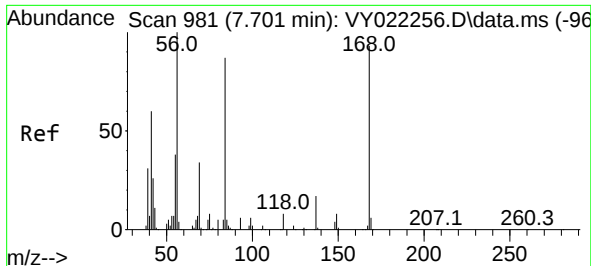
Tgt Ion:	84	Resp:	215
Ion	Ratio	Lower	Upper
84	100		
49	115.7	109.6	164.4
51	88.4	32.4	48.6#
86	56.2	52.3	78.5



#25
2-Butanone
Concen: 1.748 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.006 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion:	43	Resp:	53
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.1	33.1#

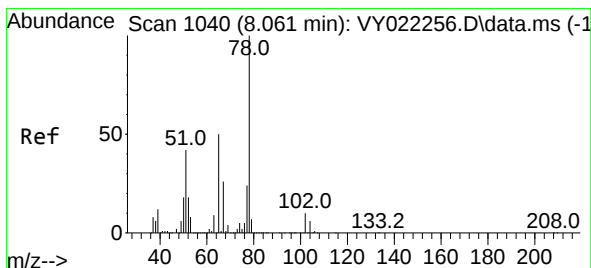
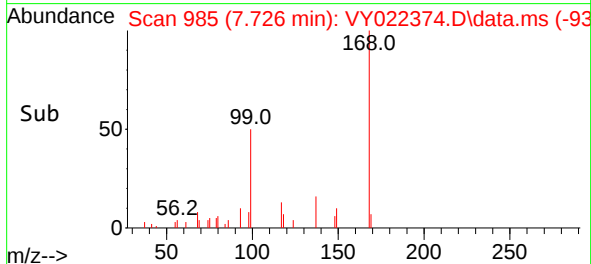
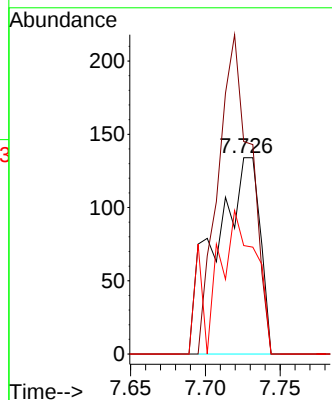
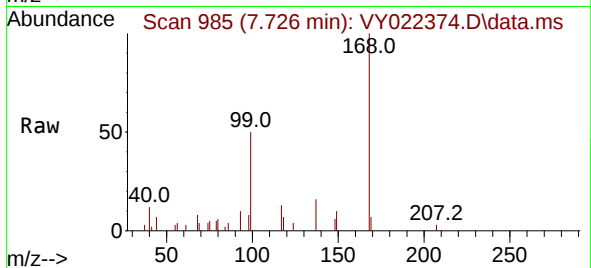




#31
Cyclohexane
Concen: 1.406 ug/l
RT: 7.726 min Scan# 981
Delta R.T. 0.025 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

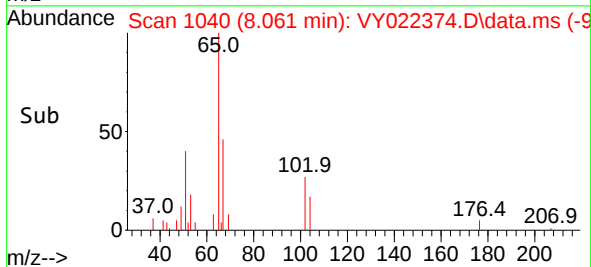
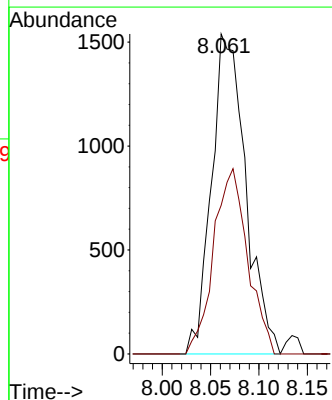
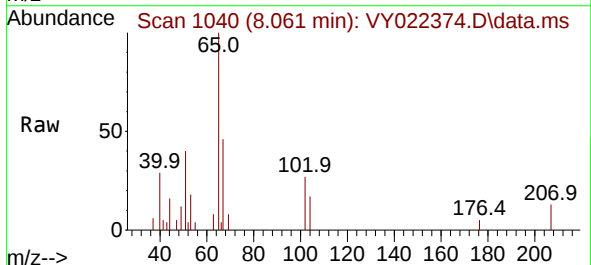
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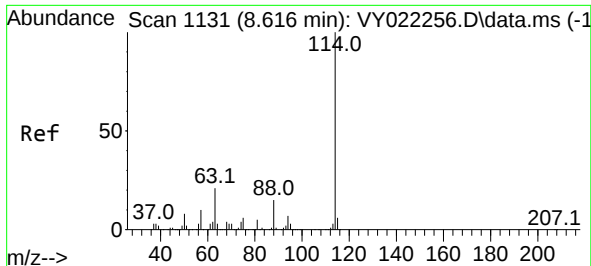
Tgt Ion: 56 Resp: 275
Ion Ratio Lower Upper
56 100
69 108.2 27.4 41.2#
84 55.2 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 39.087 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion: 65 Resp: 3778
Ion Ratio Lower Upper
65 100
67 57.6 0.0 104.6

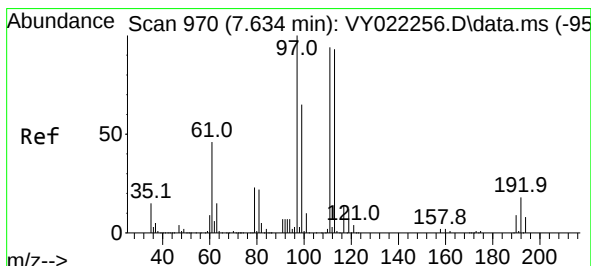
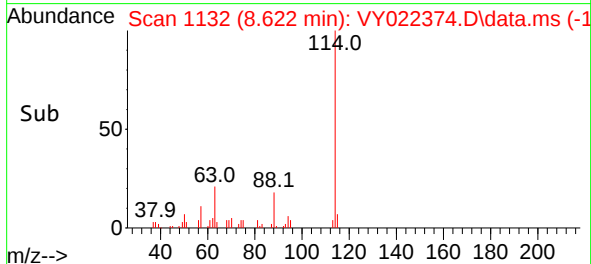
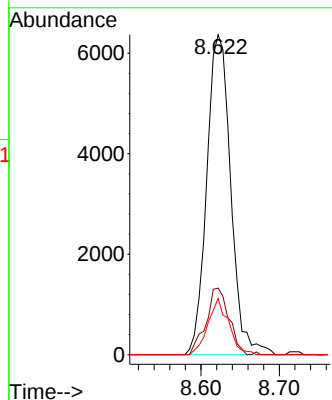
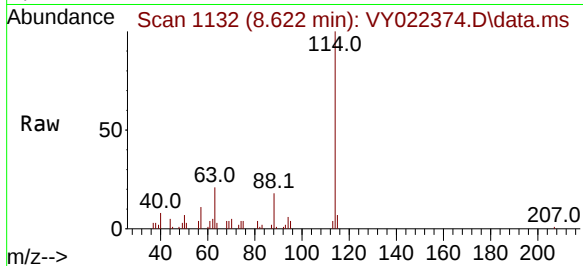




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

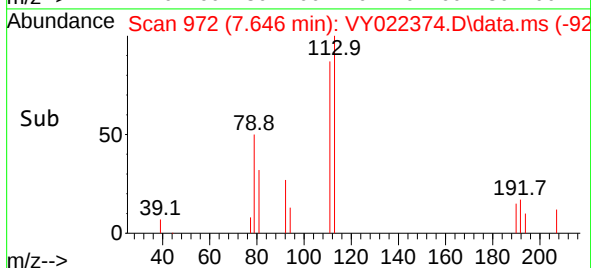
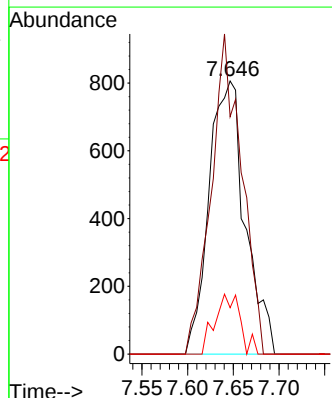
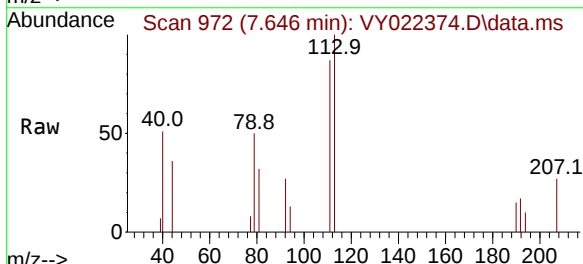
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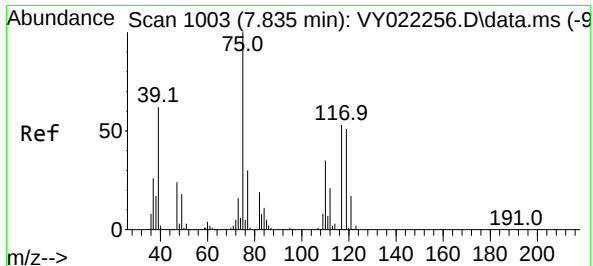
Tgt Ion:114	Resp:	13543
Ion	Ratio	Lower Upper
114	100	
63	20.8	0.0 41.0
88	17.5	0.0 29.4



#35
Dibromofluoromethane
Concen: 27.477 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion:113	Resp:	2221
Ion	Ratio	Lower Upper
113	100	
111	98.9	82.6 123.8
192	15.4	15.2 22.8





#36

1,1-Dichloropropene

Concen: 4.972 ug/l

RT: 7.707 min Scan# 9

Delta R.T. -0.128 min

Lab File: VY022374.D

Acq: 21 May 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

NB-08-05202025

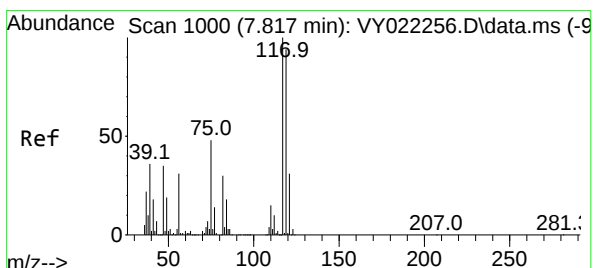
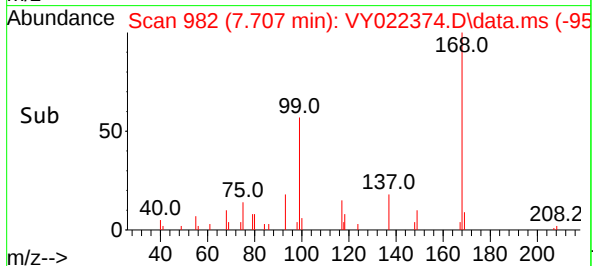
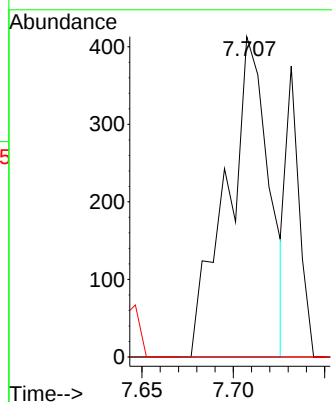
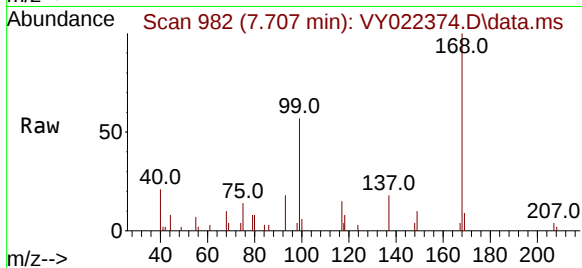
Tgt Ion: 75 Resp: 662

Ion Ratio Lower Upper

75 100

110 0.0 16.6 49.8#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 7.401 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY022374.D

Acq: 21 May 2025 17:52

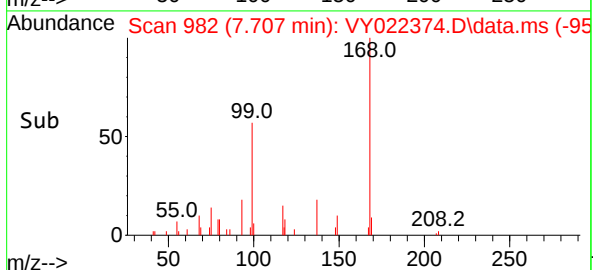
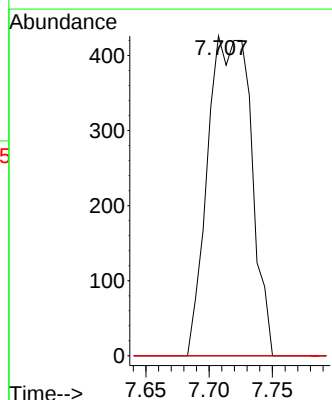
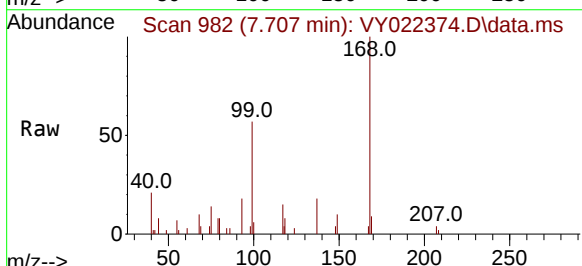
Tgt Ion: 117 Resp: 1020

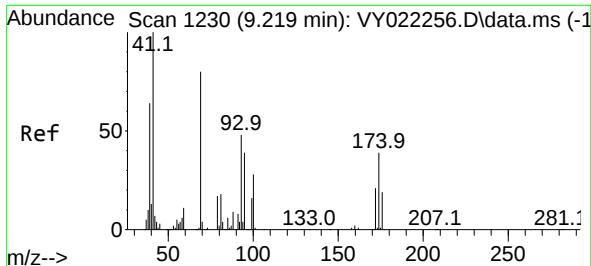
Ion Ratio Lower Upper

117 100

119 0.0 75.3 112.9#

121 0.0 24.7 37.1#

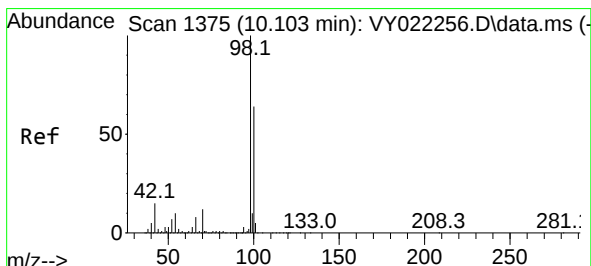
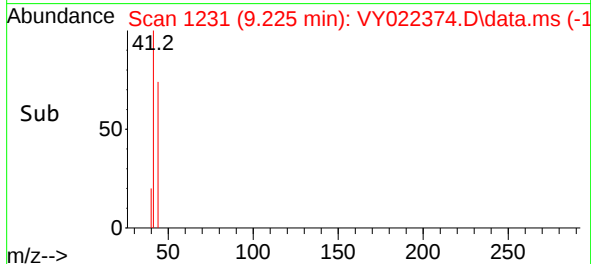
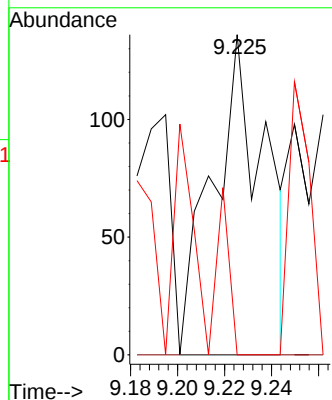
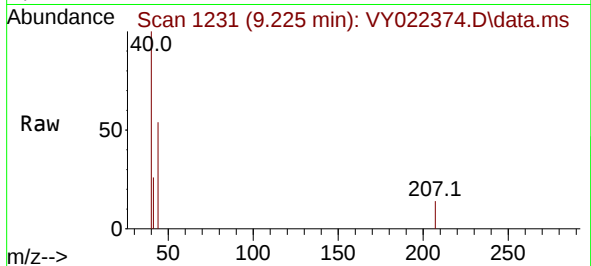




#48
Methyl methacrylate
Concen: 3.214 ug/l
RT: 9.225 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

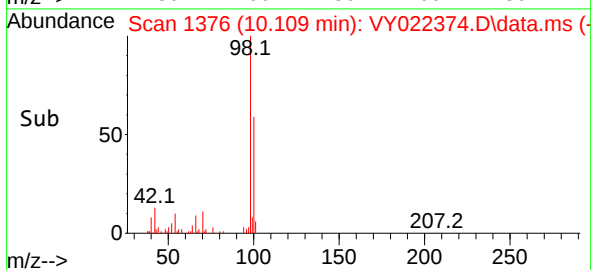
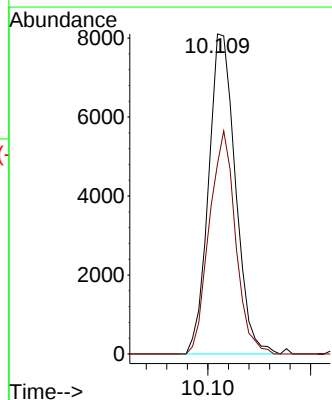
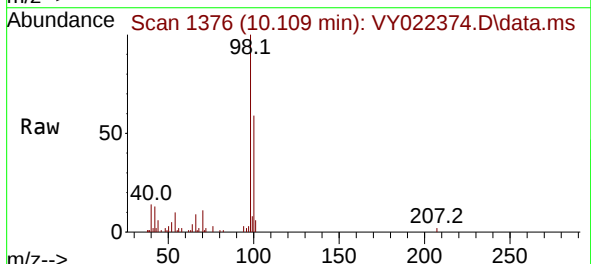
Instrument :
MSVOA_Y
ClientSampleId :
NB-08-05202025

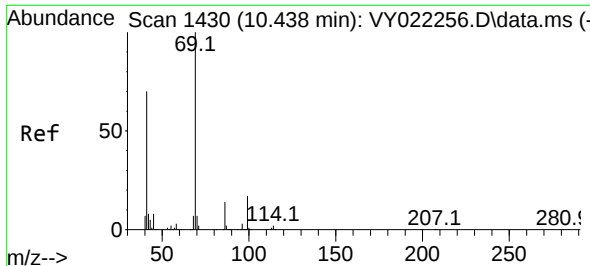
Tgt Ion: 41 Resp: 210
Ion Ratio Lower Upper
41 100
69 0.0 63.5 95.3#
39 0.0 50.8 76.2#



#50
Toluene-d8
Concen: 44.485 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion: 98 Resp: 14727
Ion Ratio Lower Upper
98 100
100 67.9 51.8 77.8

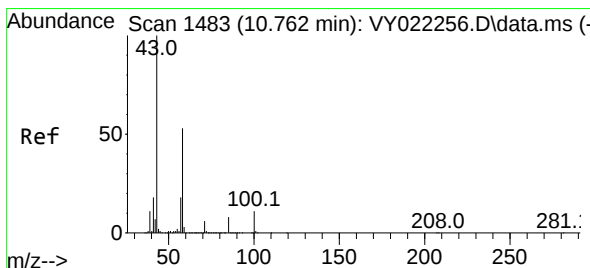
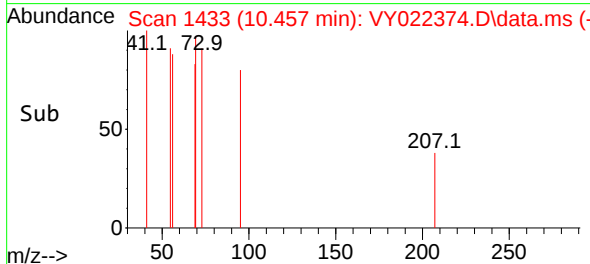
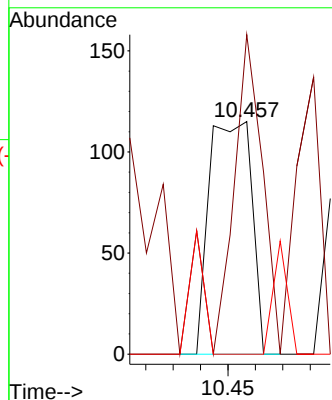
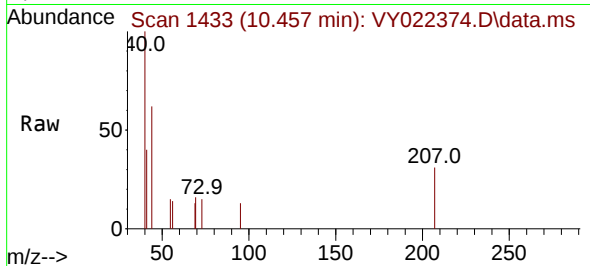




#56
Ethyl methacrylate
Concen: 1.211 ug/l
RT: 10.457 min Scan# 1433
Delta R.T. 0.018 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

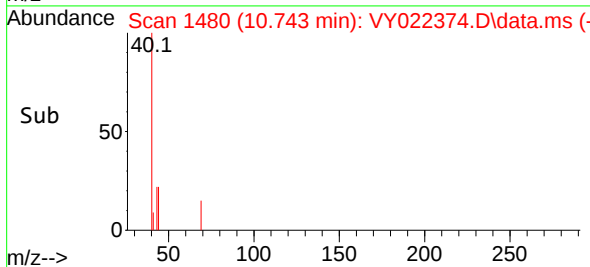
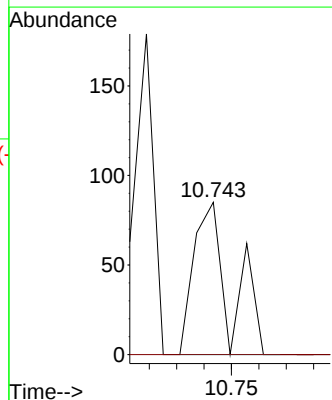
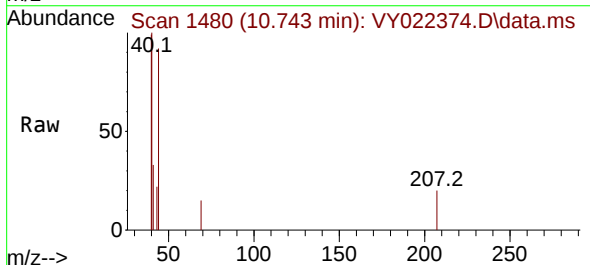
Instrument :
MSVOA_Y
ClientSampleId :
NB-08-05202025

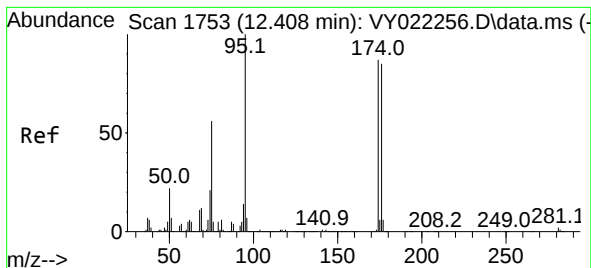
Tgt Ion: 69 Resp: 124
Ion Ratio Lower Upper
69 100
41 90.3 56.5 84.7#
39 16.1 37.1 55.7#



#59
2-Hexanone
Concen: 1.719 ug/l
RT: 10.743 min Scan# 1480
Delta R.T. -0.018 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion: 43 Resp: 79
Ion Ratio Lower Upper
43 100
58 0.0 26.1 78.3#

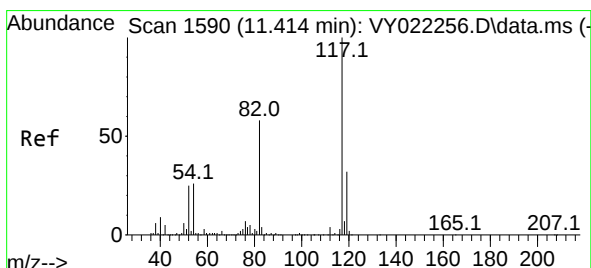
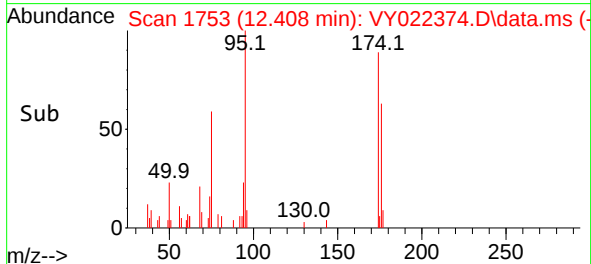
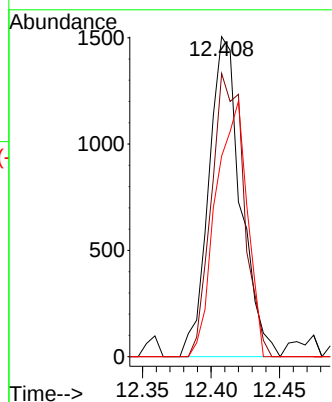
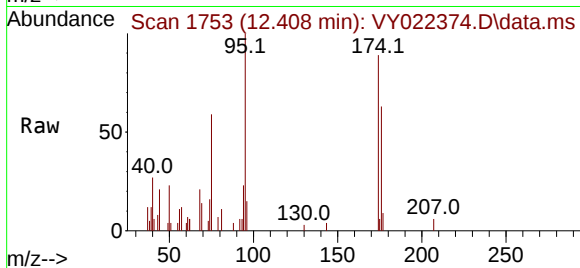




#62
4-Bromofluorobenzene
Concen: 23.377 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

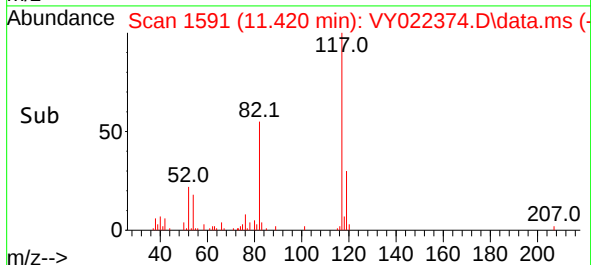
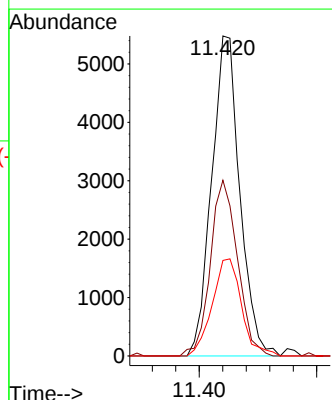
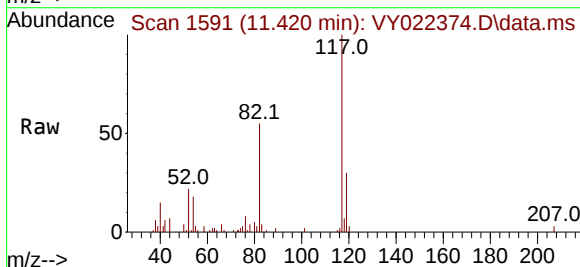
Instrument :
MSVOA_Y
ClientSampleId :
NB-08-05202025

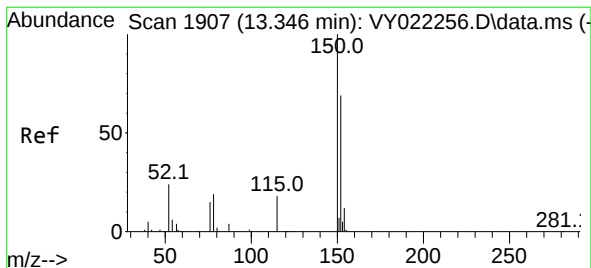
Tgt Ion:	95	Resp:	2453
Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	166.8
176	78.2	0.0	160.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022374.D
Acq: 21 May 2025 17:52

Tgt Ion:	117	Resp:	9134
Ion	Ratio	Lower	Upper
117	100		
82	54.9	46.6	70.0
119	29.8	25.8	38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY022374.D

Acq: 21 May 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

NB-08-05202025

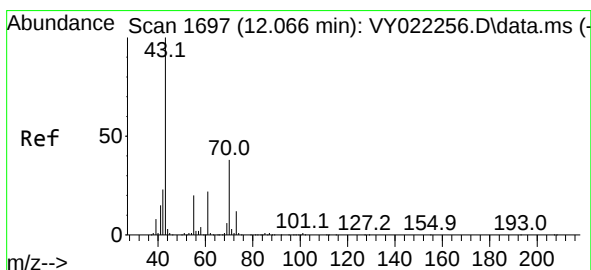
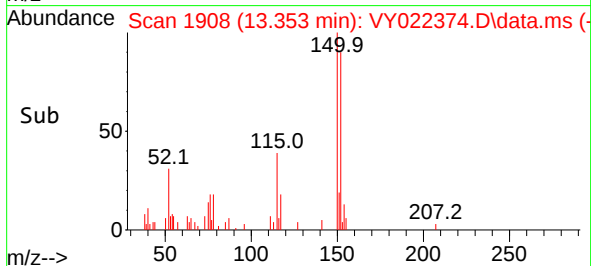
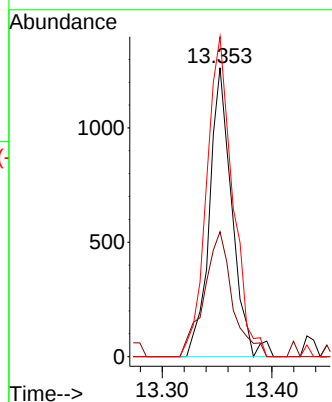
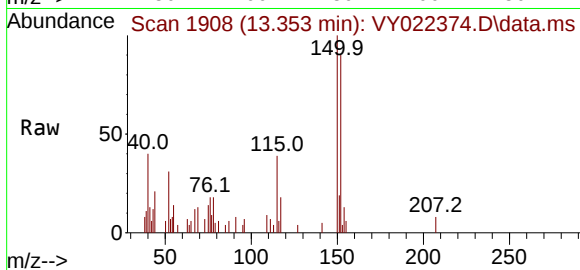
Tgt Ion:152 Resp: 1807

Ion Ratio Lower Upper

152 100

115 54.4 29.4 88.2

150 128.7 0.0 353.8



#74

N-ethyl acetate

Concen: 4.952 ug/l

RT: 12.091 min Scan# 1701

Delta R.T. 0.025 min

Lab File: VY022374.D

Acq: 21 May 2025 17:52

Tgt Ion: 43 Resp: 212

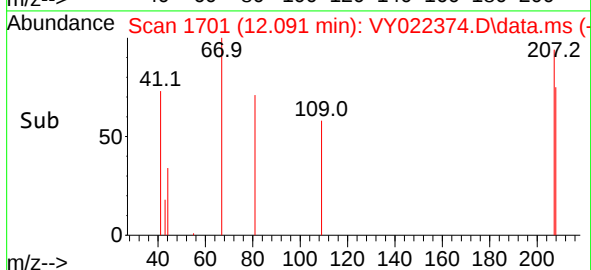
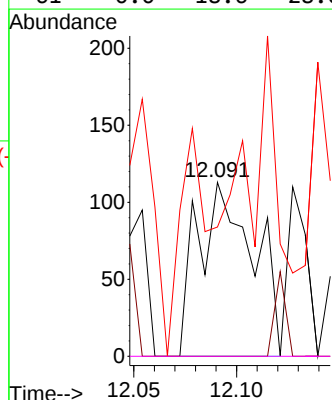
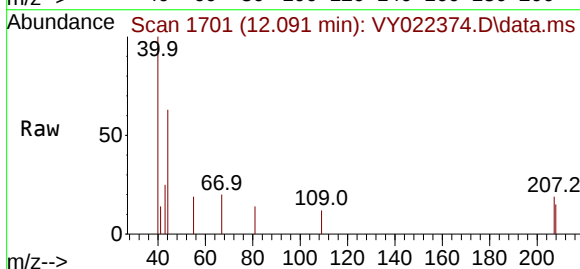
Ion Ratio Lower Upper

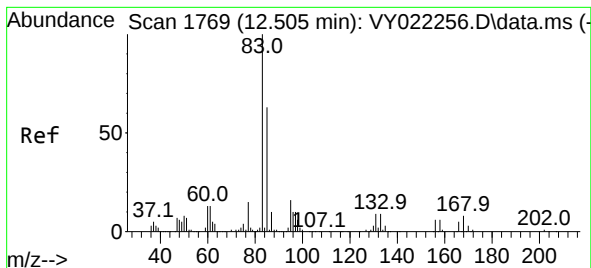
43 100

70 0.0 31.4 47.0#

55 45.3 17.0 25.6#

61 0.0 18.6 28.0#





#75

1,1,2-Tetrachloroethane

Concen: 4.952 ug/l

RT: 12.517 min Scan# 1

Delta R.T. 0.012 min

Lab File: VY022374.D

Acq: 21 May 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

NB-08-05202025

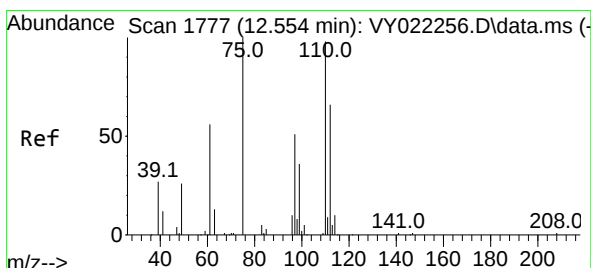
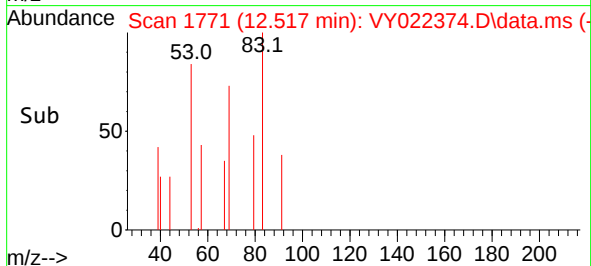
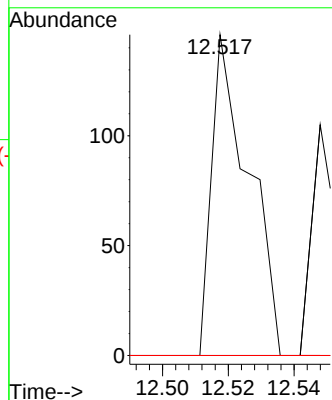
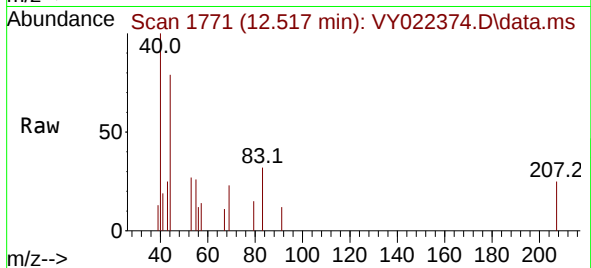
Tgt Ion: 83 Resp: 114

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 77.567 ug/l

RT: 12.414 min Scan# 1754

Delta R.T. -0.140 min

Lab File: VY022374.D

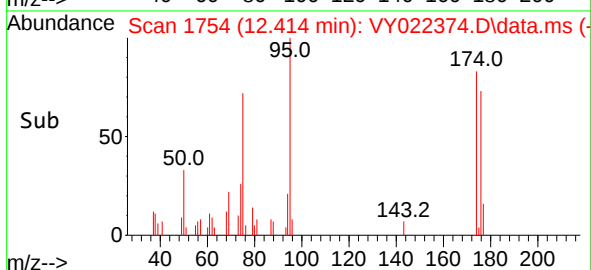
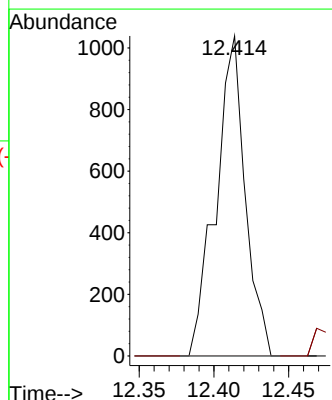
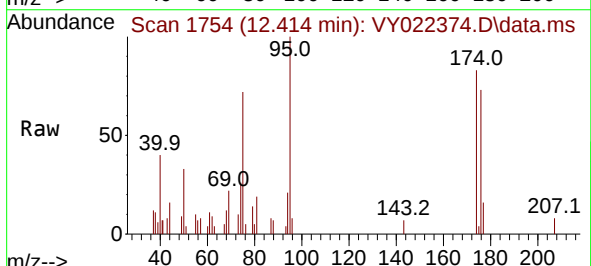
Acq: 21 May 2025 17:52

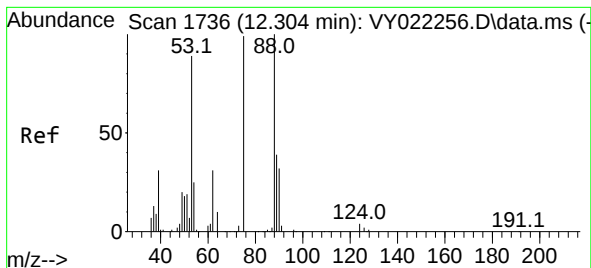
Tgt Ion: 75 Resp: 1420

Ion Ratio Lower Upper

75 100

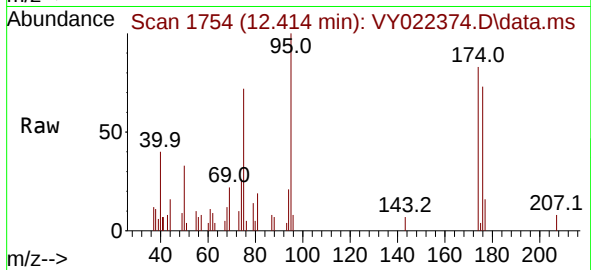
77 0.0 0.0 0.0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 157.131 ug/l
 RT: 12.414 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY022374.D
 Acq: 21 May 2025 17:52

Instrument :
 MSVOA_Y
 ClientSampleId :
 NB-08-05202025



Tgt Ion: 75 Resp: 1420
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.8 113.8#
 89 0.0 36.2 54.2#

