

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031825\
 Data File : VY021558.D
 Acq On : 18 Mar 2025 11:52
 Operator : SY/MD
 Sample : Q1590-02
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Mar 19 01:38:51 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

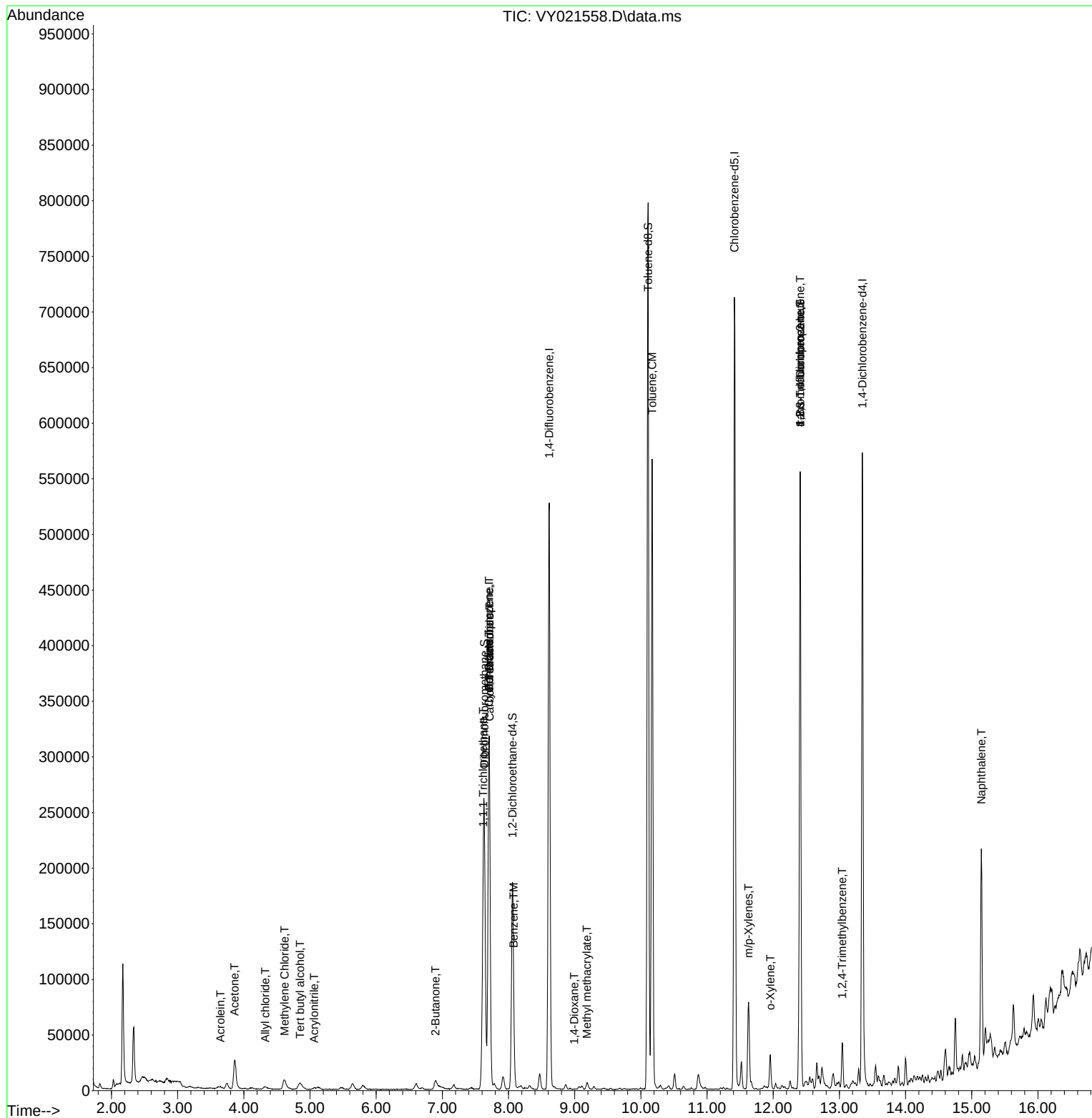
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	239672	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	433656	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	367381	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	137683	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	139985	55.260	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 110.520%	
35) Dibromofluoromethane	7.634	113	145197	50.938	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.880%	
50) Toluene-d8	10.109	98	508405	47.106	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.220%	
62) 4-Bromofluorobenzene	12.408	95	153034	41.684	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 83.360%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.848	59	9480	38.494	ug/l	100
13) Acrolein	3.647	56	1758	13.644	ug/l	93
14) Allyl chloride	4.324	41	3988	1.002	ug/l #	33
15) Acrylonitrile	5.061	53	1475	2.644	ug/l #	31
16) Acetone	3.860	43	45105	81.636	ug/l	97
20) Methylene Chloride	4.616	84	5908	2.037	ug/l	93
25) 2-Butanone	6.896	43	6683	8.744	ug/l	90
31) Cyclohexane	7.701	56	7539	1.589	ug/l #	35
32) 1,1,1-Trichloroethane	7.616	97	64304	13.365	ug/l	100
36) 1,1-Dichloropropene	7.707	75	19645	4.403	ug/l #	50
38) Carbon Tetrachloride	7.713	117	24927	4.858	ug/l #	17
40) Benzene	8.079	78	15557	1.184	ug/l #	90
48) Methyl methacrylate	9.182	41	1883	1.071	ug/l #	40
49) 1,4-Dioxane	8.993	88	32	1.873	ug/l #	1
52) Toluene	10.170	92	226279	27.307	ug/l	100
68) m/p-Xylenes	11.627	106	22973	3.974	ug/l	99
69) o-Xylene	11.956	106	7196	1.351	ug/l	99
76) 1,2,3-Trichloropropane	12.408	75	83522	60.200	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	83522	136.853	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.042	105	20940	2.393	ug/l	98
95) Naphthalene	15.145	128	151651	39.099	ug/l	100

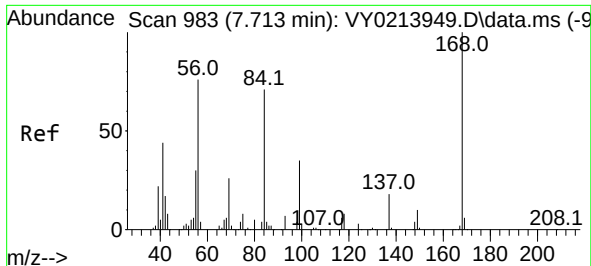
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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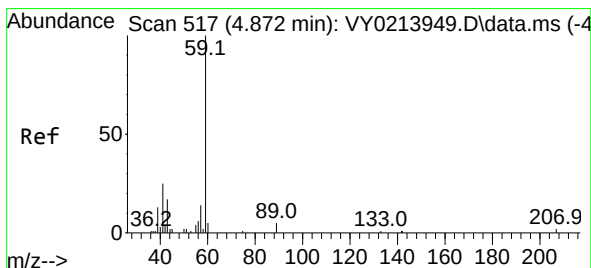
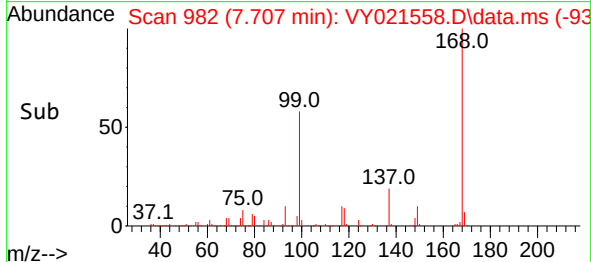
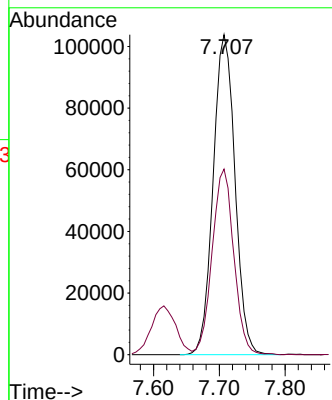
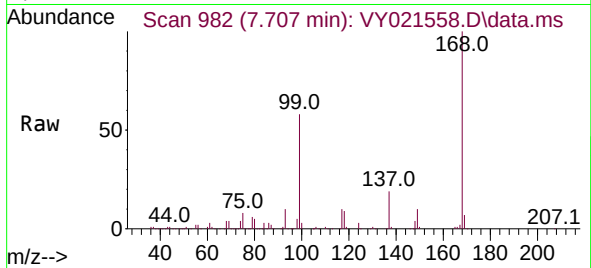




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

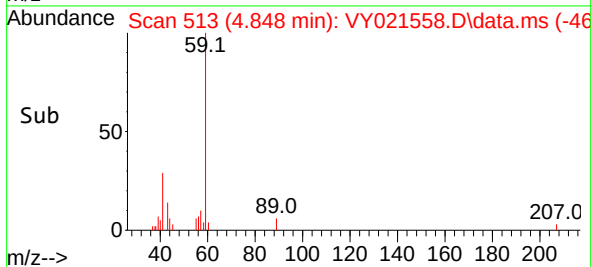
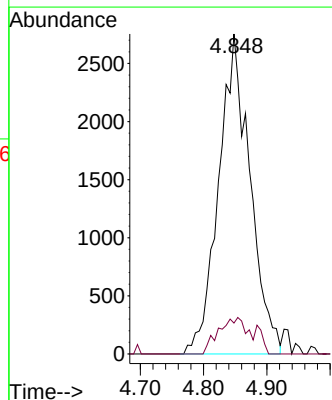
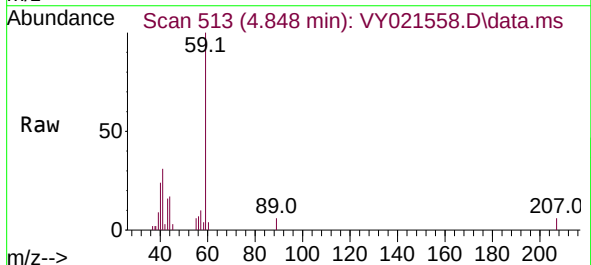
Instrument :
MSVOA_Y
ClientSampleId :

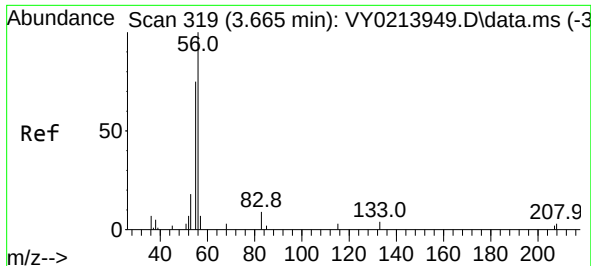
Tgt Ion:168 Resp: 239672
Ion Ratio Lower Upper
168 100
99 58.0 46.0 69.0



#11
Tert butyl alcohol
Concen: 38.494 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.024 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

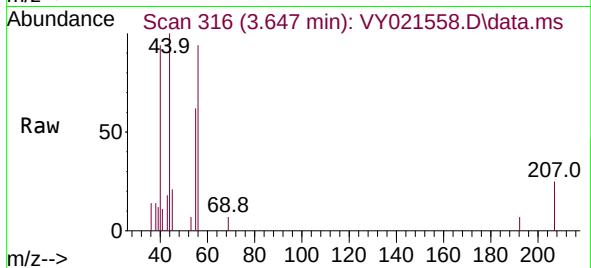
Tgt Ion: 59 Resp: 9480
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.4



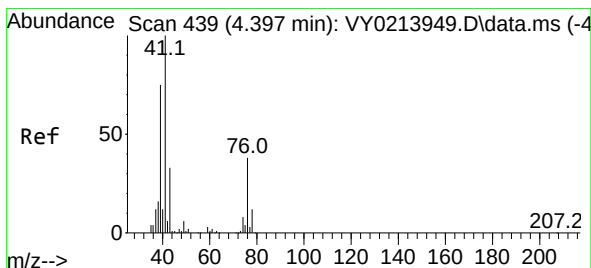
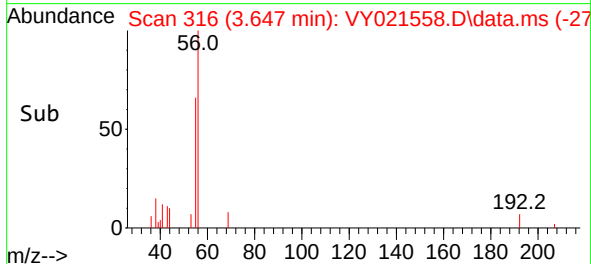
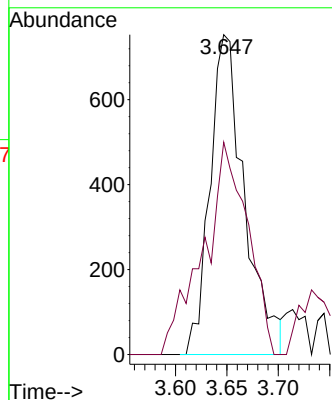


#13
Acrolein
Concen: 13.644 ug/l
RT: 3.647 min Scan# 31
Delta R.T. -0.018 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

Instrument :
MSVOA_Y
ClientSampleId :

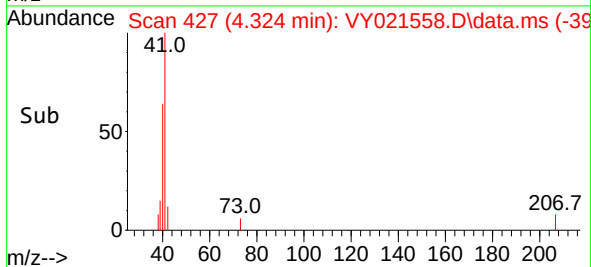
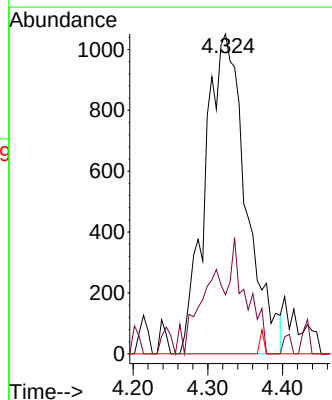
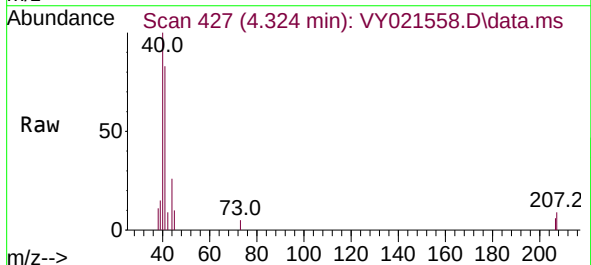


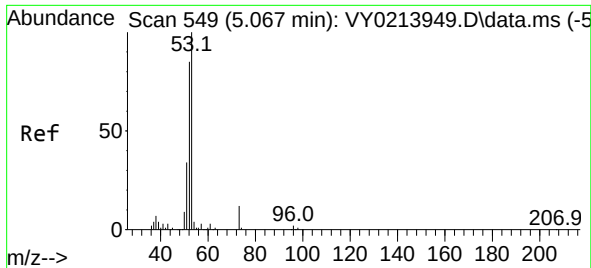
Tgt Ion: 56 Resp: 1758
Ion Ratio Lower Upper
56 100
55 85.5 63.4 95.2



#14
Allyl chloride
Concen: 1.002 ug/l
RT: 4.324 min Scan# 427
Delta R.T. -0.073 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

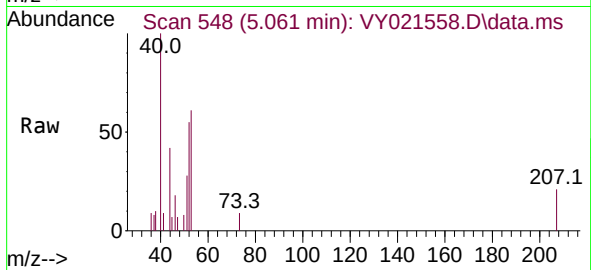
Tgt Ion: 41 Resp: 3988
Ion Ratio Lower Upper
41 100
39 15.0 59.3 88.9#
76 0.0 29.8 44.8#



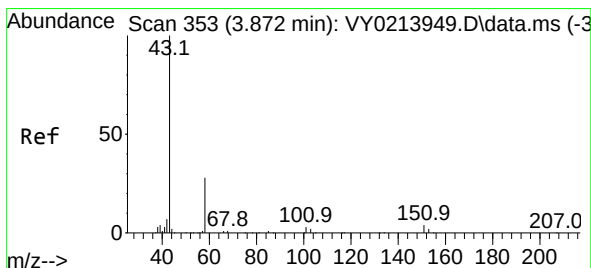
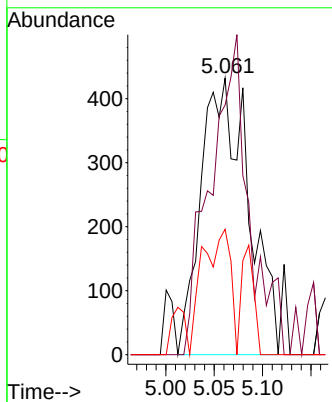
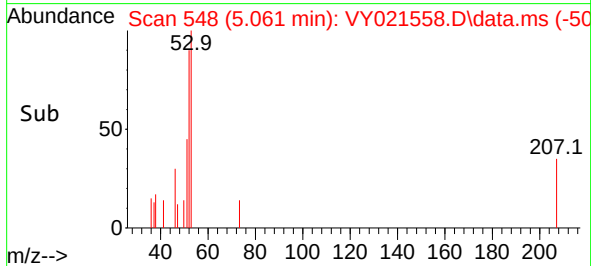


#15
Acrylonitrile
Concen: 2.644 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

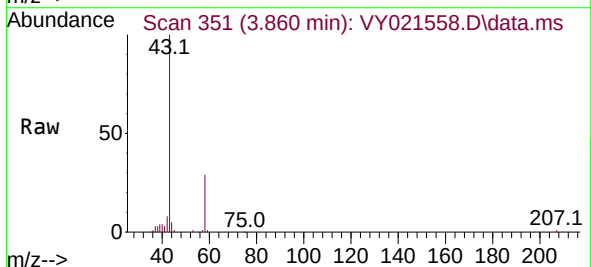
Instrument :
MSVOA_Y
ClientSampleId :



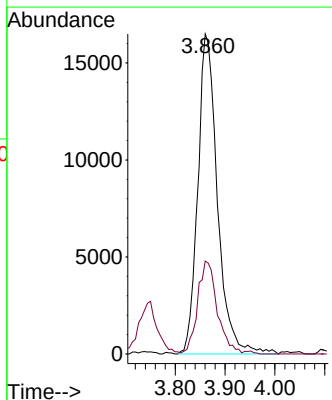
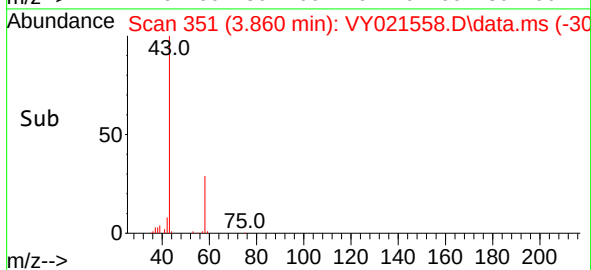
Tgt Ion: 53 Resp: 1475
Ion Ratio Lower Upper
53 100
52 0.0 66.3 99.5#
51 26.6 30.3 45.5#

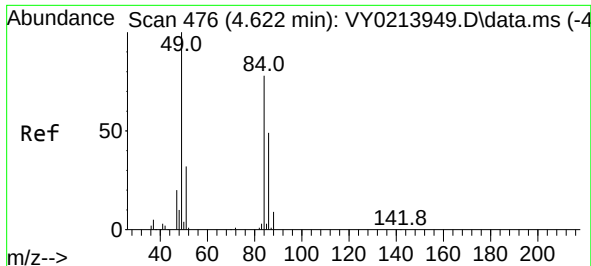


#16
Acetone
Concen: 81.636 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.012 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52



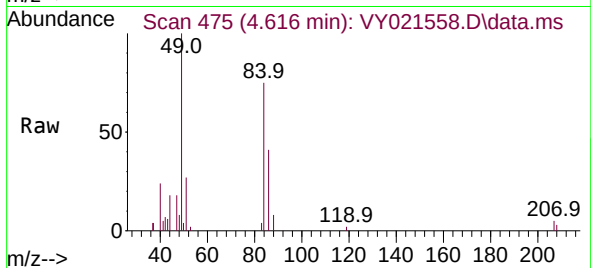
Tgt Ion: 43 Resp: 45105
Ion Ratio Lower Upper
43 100
58 29.0 22.1 33.1



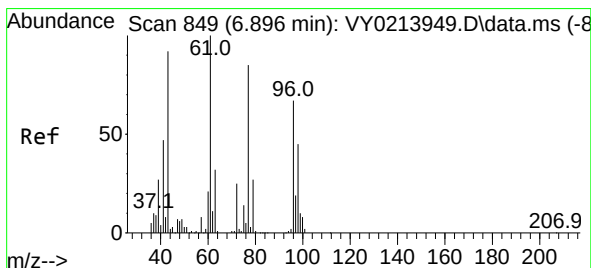
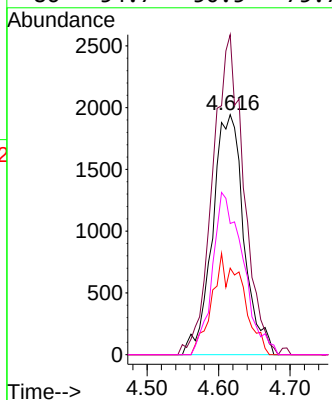
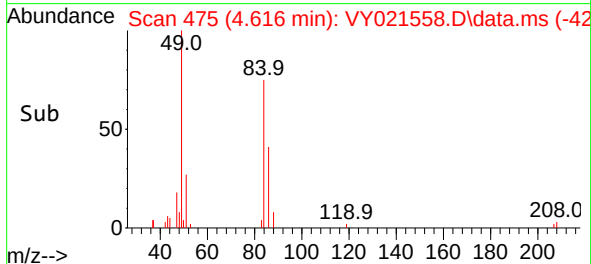


#20
Methylene Chloride
Concen: 2.037 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

Instrument :
MSVOA_Y
ClientSampleId :

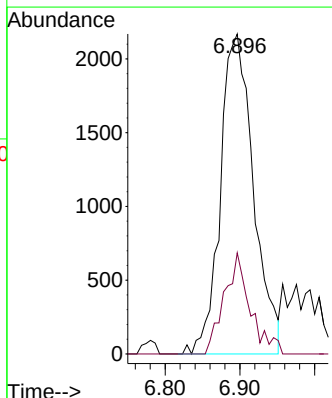
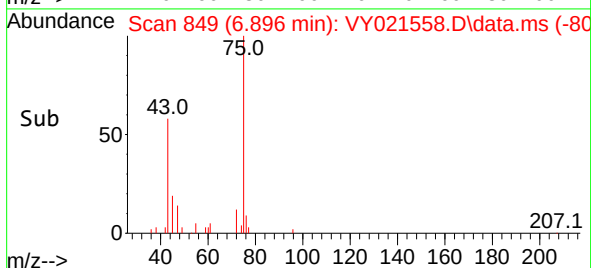
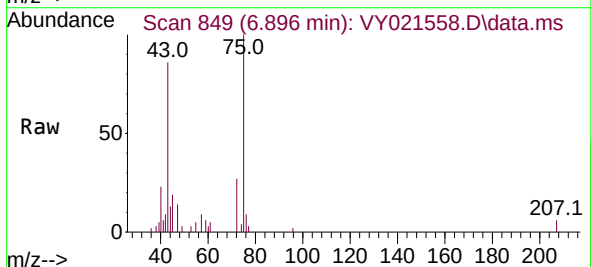


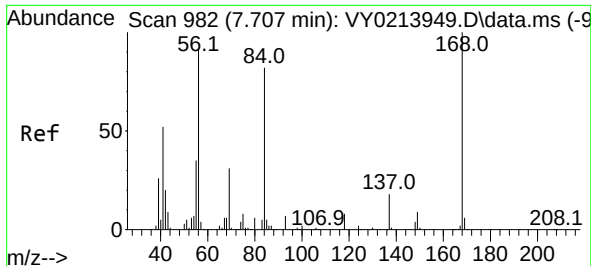
Tgt Ion:	84	Resp:	5908
Ion	Ratio	Lower	Upper
84	100		
49	133.4	102.0	153.0
51	36.1	33.0	49.6
86	54.7	50.5	75.7



#25
2-Butanone
Concen: 8.744 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

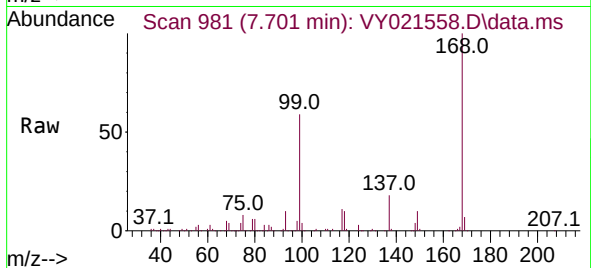
Tgt Ion:	43	Resp:	6683
Ion	Ratio	Lower	Upper
43	100		
72	31.6	21.4	32.0



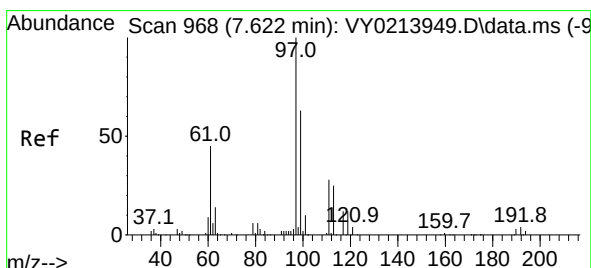
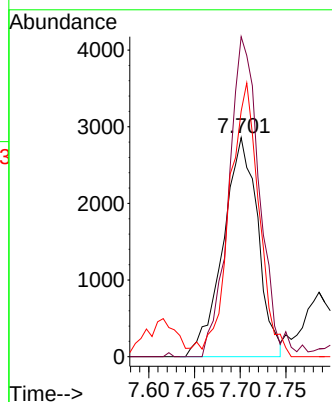
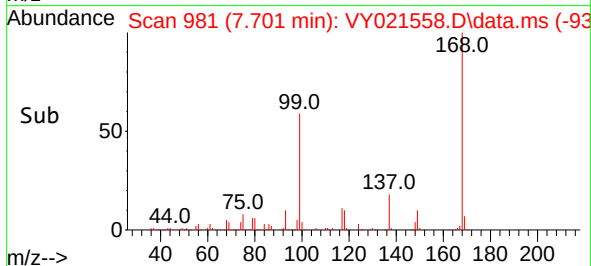


#31
Cyclohexane
Concen: 1.589 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

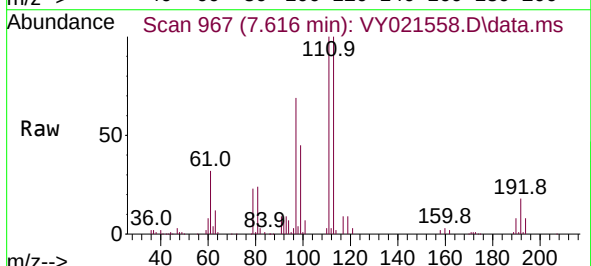
Instrument :
MSVOA_Y
ClientSampleId :



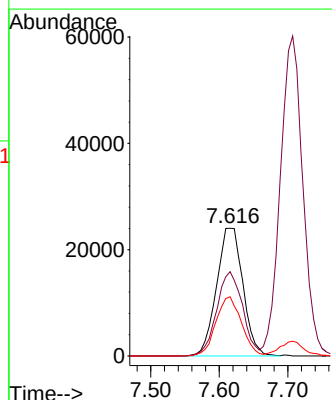
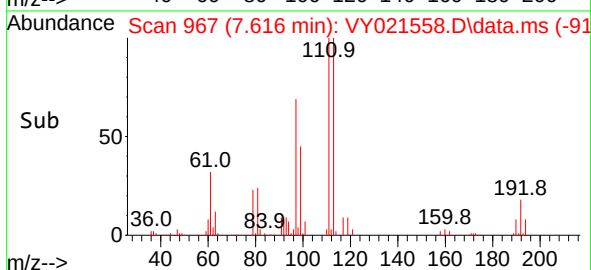
Tgt Ion: 56 Resp: 7539
Ion Ratio Lower Upper
56 100
69 146.1 27.0 40.4#
84 102.4 71.1 106.7

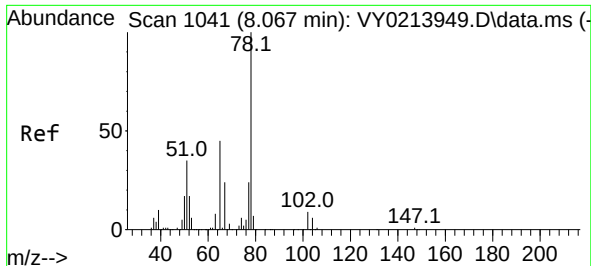


#32
1,1,1-Trichloroethane
Concen: 13.365 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52



Tgt Ion: 97 Resp: 64304
Ion Ratio Lower Upper
97 100
99 64.5 51.7 77.5
61 44.9 35.7 53.5





#33

1,2-Dichloroethane-d4

Concen: 55.260 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021558.D

Acq: 18 Mar 2025 11:52

Instrument :

MSVOA_Y

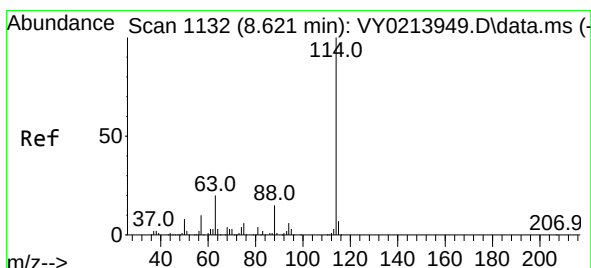
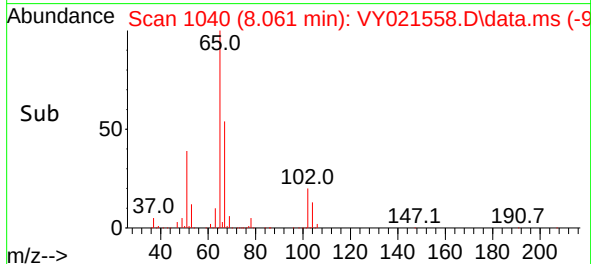
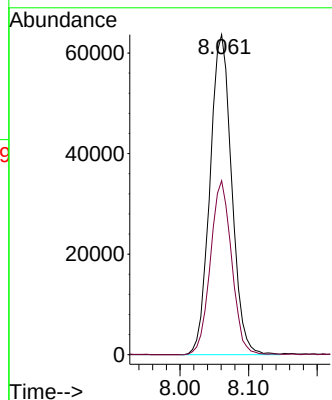
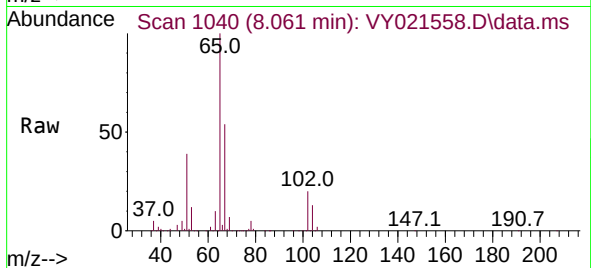
ClientSampleId :

Tgt Ion: 65 Resp: 139985

Ion Ratio Lower Upper

65 100

67 53.2 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021558.D

Acq: 18 Mar 2025 11:52

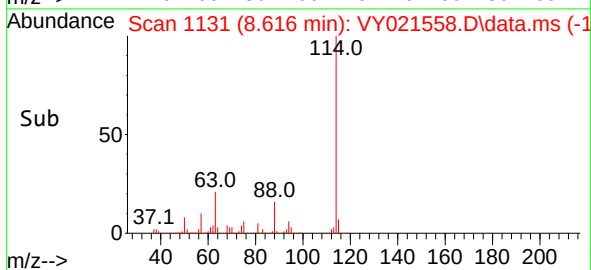
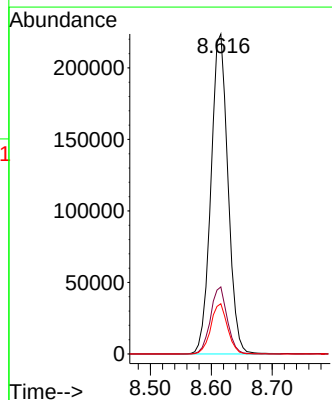
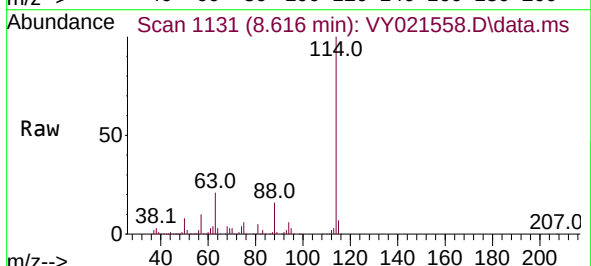
Tgt Ion:114 Resp: 433656

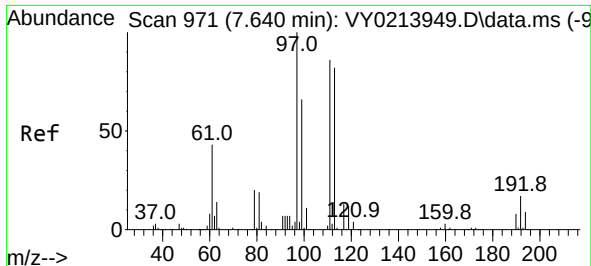
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

88 15.7 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.938 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021558.D

Acq: 18 Mar 2025 11:52

Instrument :

MSVOA_Y

ClientSampleId :

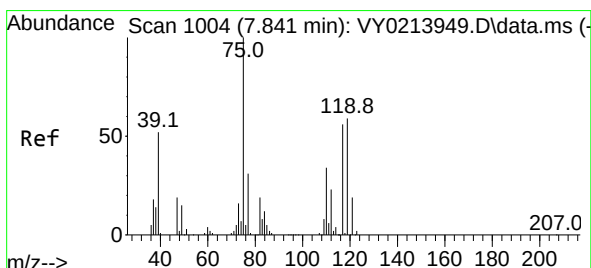
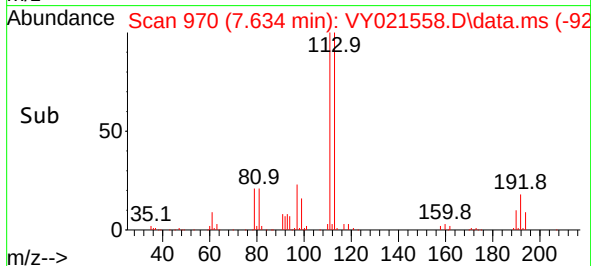
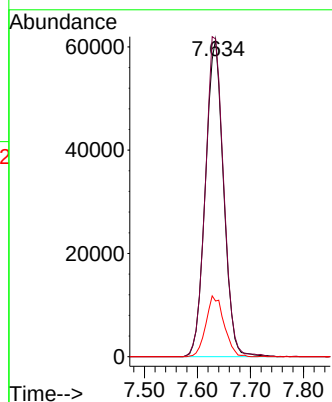
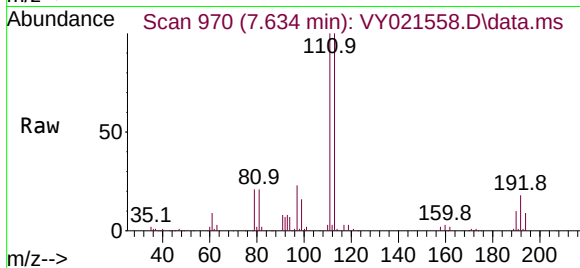
Tgt Ion:113 Resp: 145197

Ion Ratio Lower Upper

113 100

111 102.5 82.0 123.0

192 19.3 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.403 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY021558.D

Acq: 18 Mar 2025 11:52

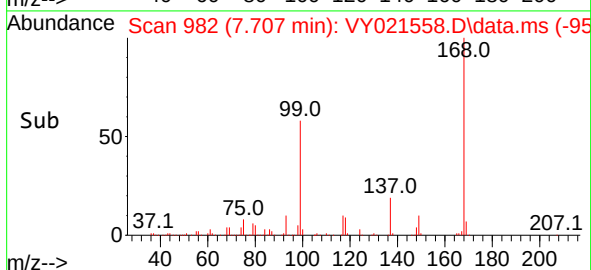
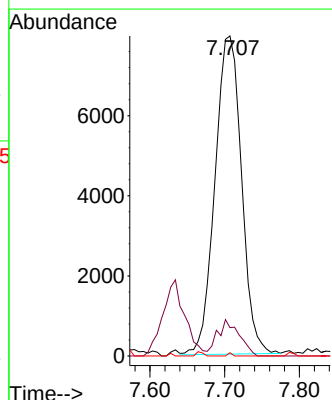
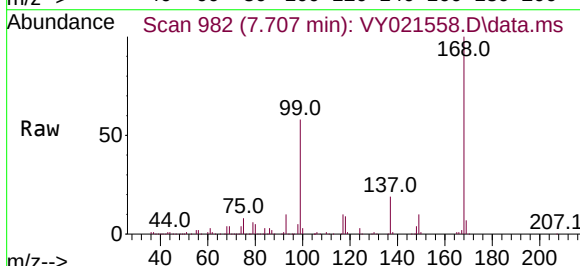
Tgt Ion: 75 Resp: 19645

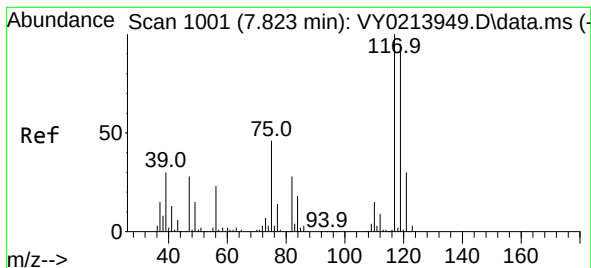
Ion Ratio Lower Upper

75 100

110 9.2 17.3 51.7#

77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 4.858 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.110 min

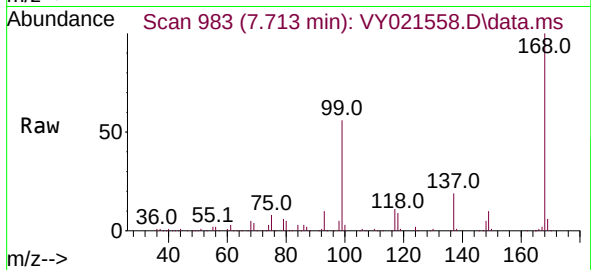
Lab File: VY021558.D

Acq: 18 Mar 2025 11:52

Instrument :

MSVOA_Y

ClientSampleId :



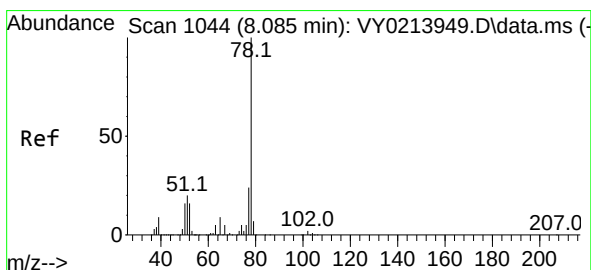
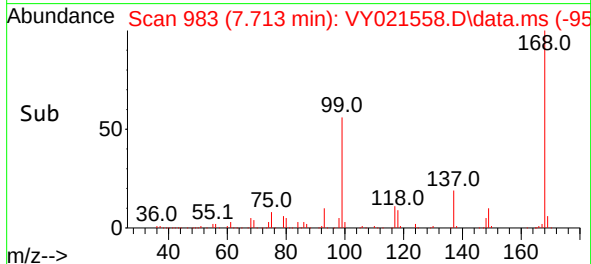
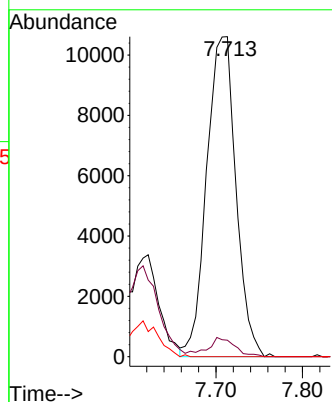
Tgt Ion:117 Resp: 24927

Ion Ratio Lower Upper

117 100

119 5.2 75.8 113.8#

121 0.0 23.9 35.9#



#40

Benzene

Concen: 1.184 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. -0.006 min

Lab File: VY021558.D

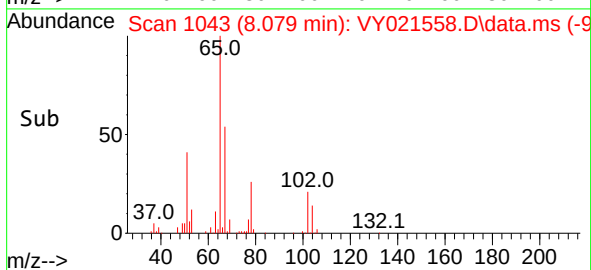
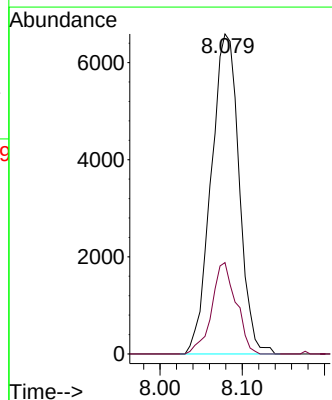
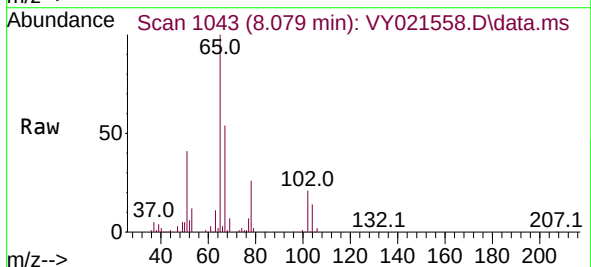
Acq: 18 Mar 2025 11:52

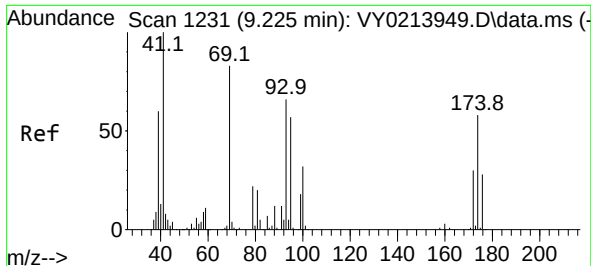
Tgt Ion: 78 Resp: 15557

Ion Ratio Lower Upper

78 100

77 28.6 19.0 28.4#





#48

Methyl methacrylate

Concen: 1.071 ug/l

RT: 9.182 min Scan# 1193

Delta R.T. -0.042 min

Lab File: VY021558.D

Acq: 18 Mar 2025 11:52

Instrument :

MSVOA_Y

ClientSampleId :

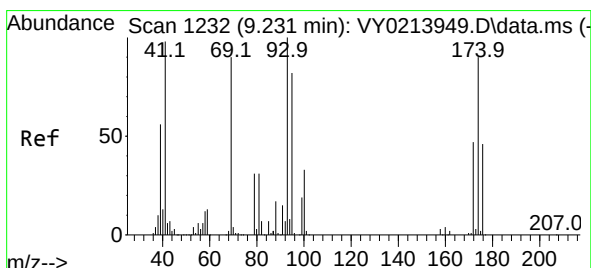
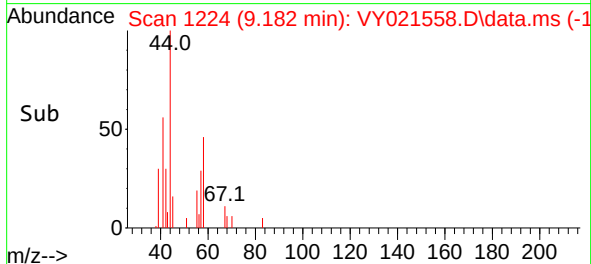
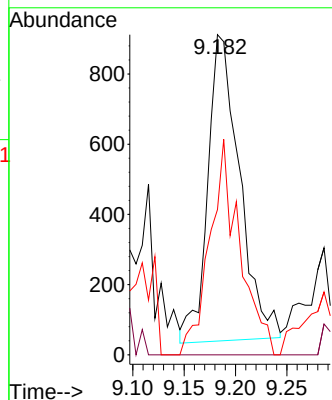
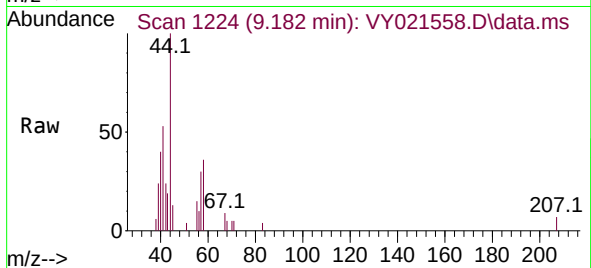
Tgt Ion: 41 Resp: 1883

Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.8#

39 66.0 46.4 69.6



#49

1,4-Dioxane

Concen: 1.873 ug/l

RT: 8.993 min Scan# 1193

Delta R.T. -0.238 min

Lab File: VY021558.D

Acq: 18 Mar 2025 11:52

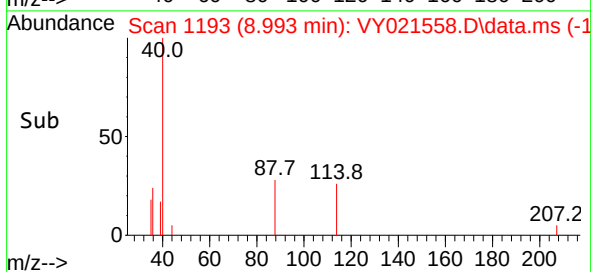
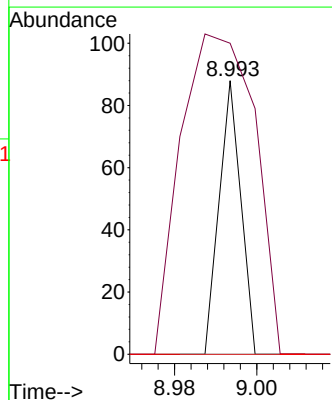
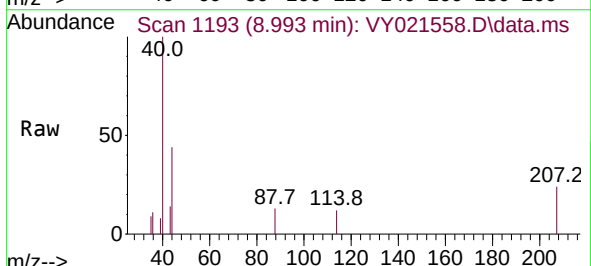
Tgt Ion: 88 Resp: 32

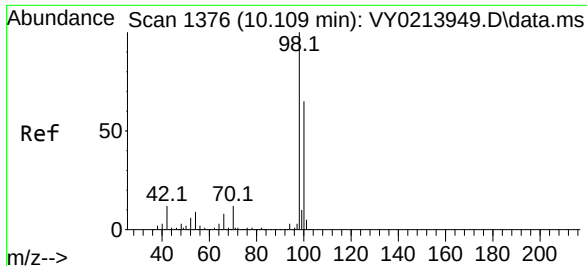
Ion Ratio Lower Upper

88 100

43 403.1 25.0 37.4#

58 0.0 58.4 87.6#

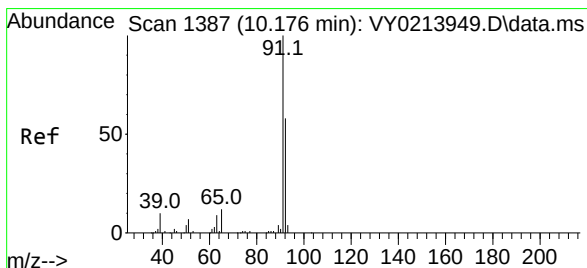
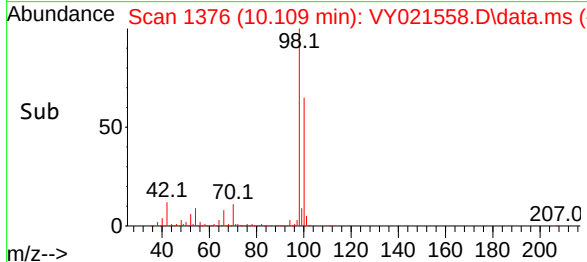
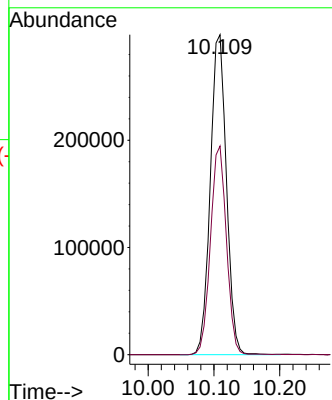
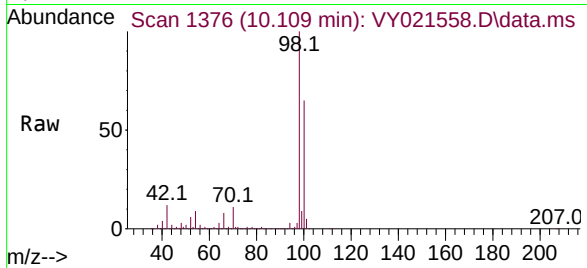




#50
Toluene-d8
Concen: 47.106 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

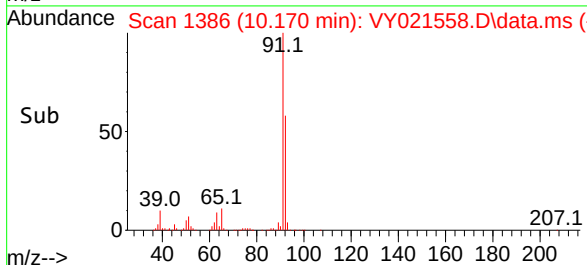
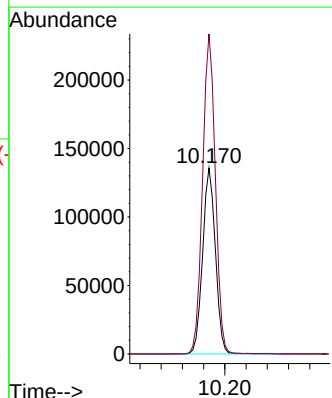
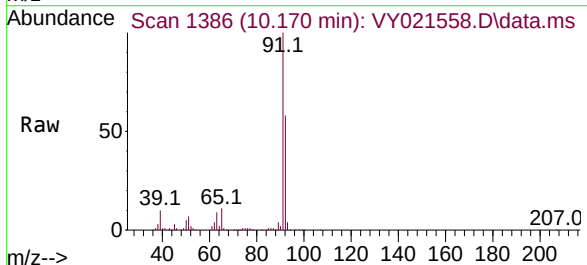
Instrument :
MSVOA_Y
ClientSampleId :

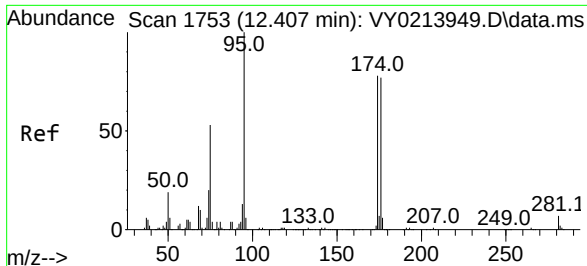
Tgt Ion: 98 Resp: 508405
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



#52
Toluene
Concen: 27.307 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

Tgt Ion: 92 Resp: 226279
Ion Ratio Lower Upper
92 100
91 172.5 138.2 207.2

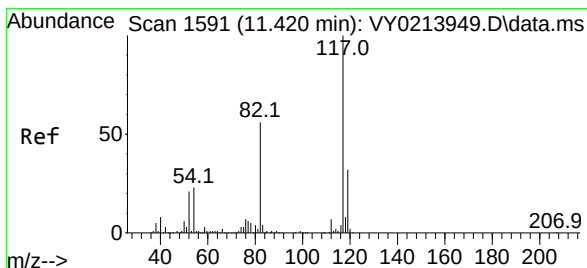
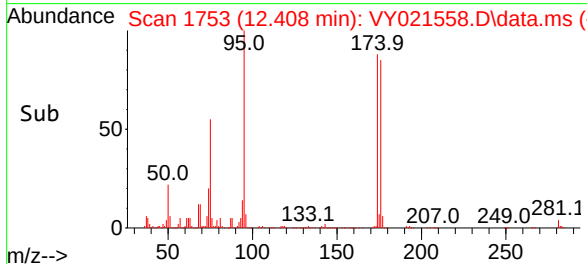
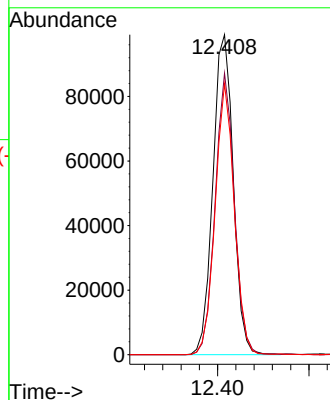
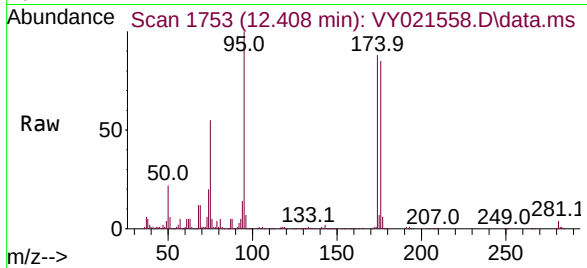




#62
4-Bromofluorobenzene
Concen: 41.684 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

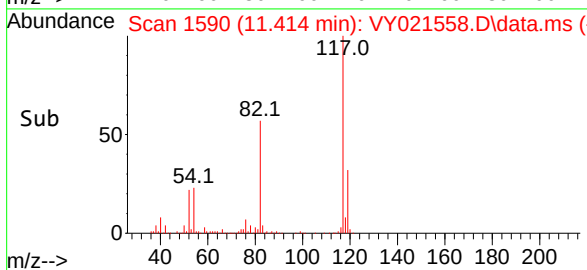
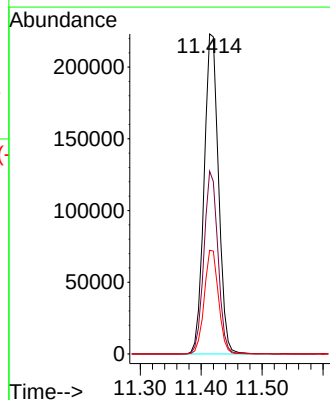
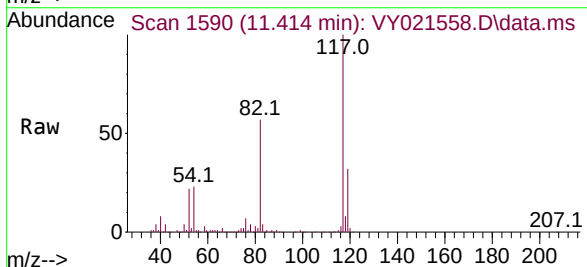
Instrument :
MSVOA_Y
ClientSampleId :

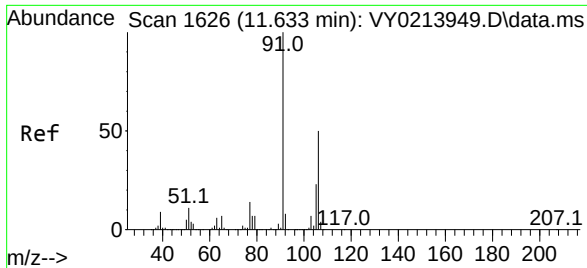
Tgt Ion: 95 Resp: 153034
Ion Ratio Lower Upper
95 100
174 83.2 0.0 165.0
176 79.9 0.0 160.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

Tgt Ion: 117 Resp: 367381
Ion Ratio Lower Upper
117 100
82 57.1 44.6 67.0
119 32.4 25.4 38.0

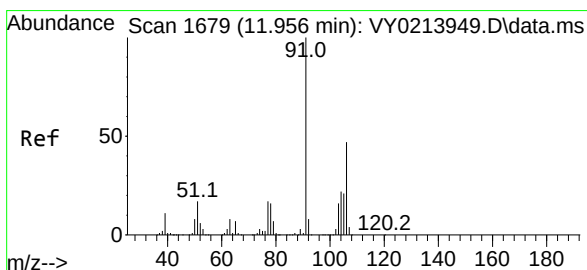
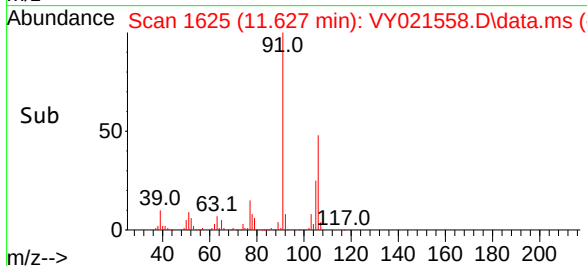
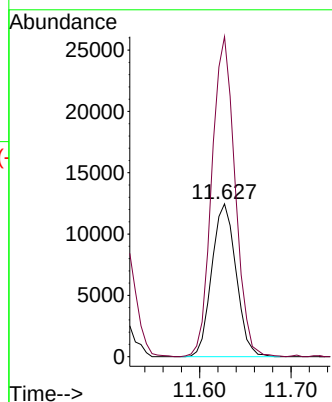
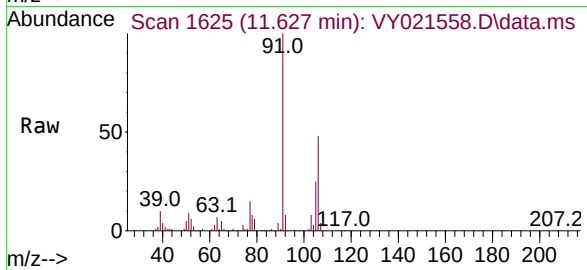




#68
m/p-Xylenes
Concen: 3.974 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

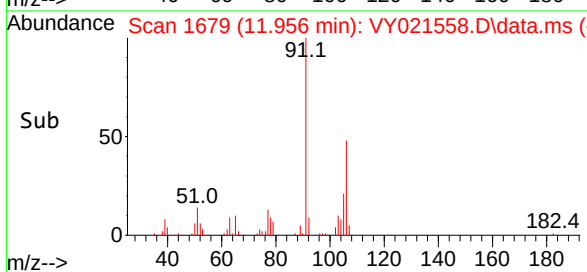
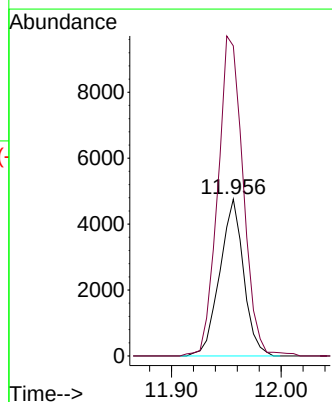
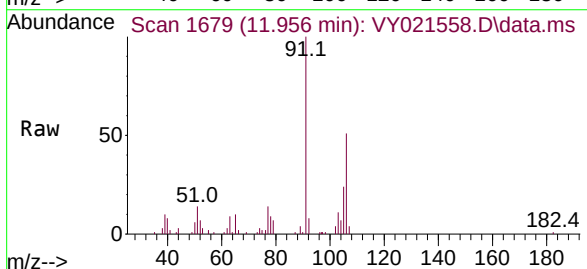
Instrument :
MSVOA_Y
ClientSampleId :

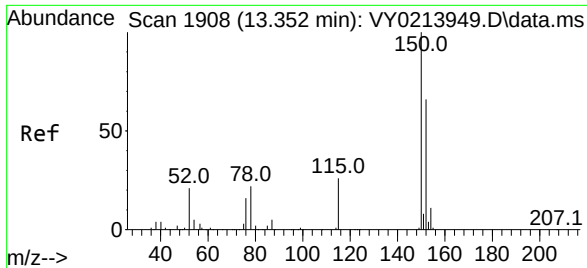
Tgt Ion:106 Resp: 22973
Ion Ratio Lower Upper
106 100
91 200.7 161.7 242.5



#69
o-Xylene
Concen: 1.351 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.000 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

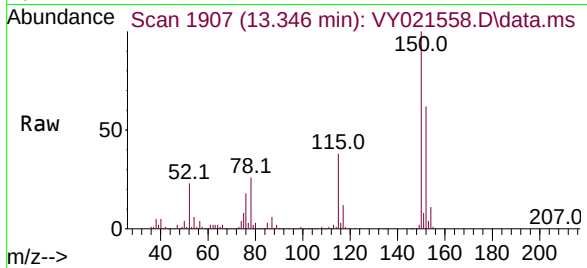
Tgt Ion:106 Resp: 7196
Ion Ratio Lower Upper
106 100
91 217.1 107.6 322.8



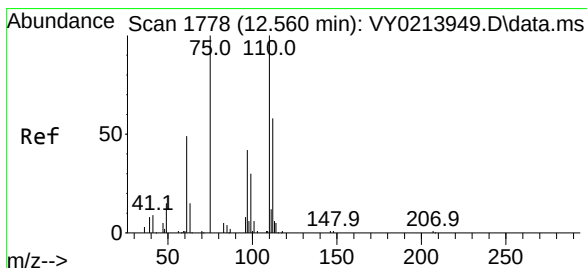
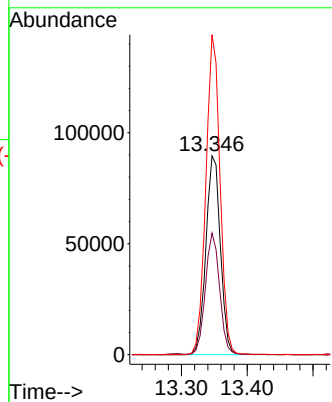
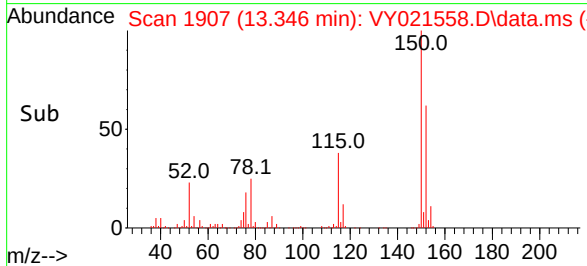


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1908
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

Instrument :
MSVOA_Y
ClientSampleId :

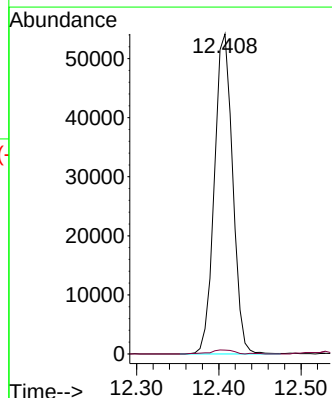
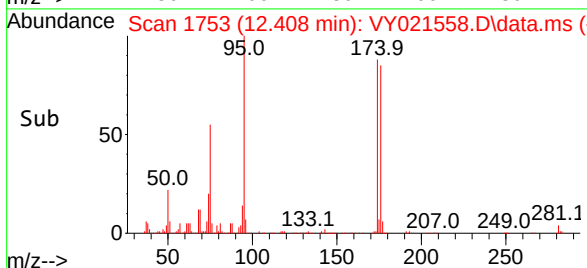
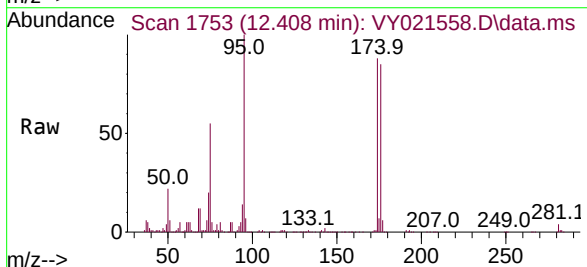


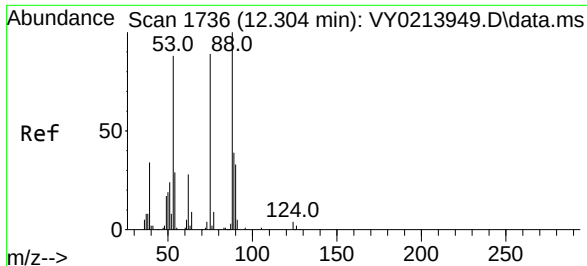
Tgt Ion:152 Resp: 137683
Ion Ratio Lower Upper
152 100
115 59.7 29.0 87.0
150 156.8 0.0 347.2



#76
1,2,3-Trichloropropane
Concen: 60.200 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

Tgt Ion: 75 Resp: 83522
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#

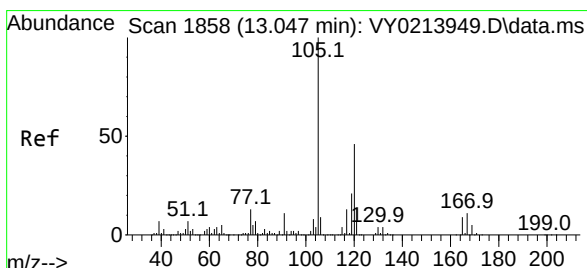
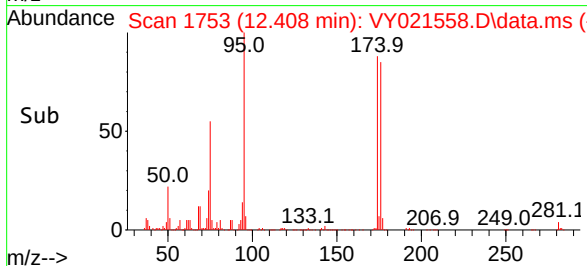
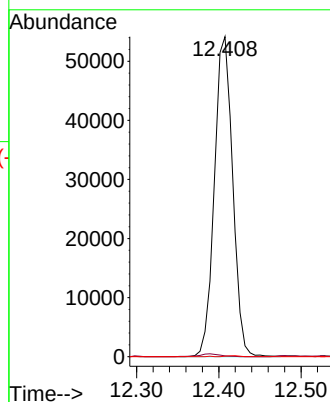
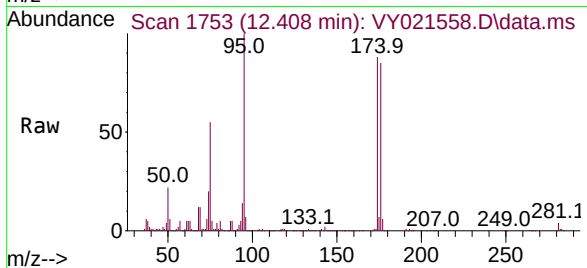




#81
trans-1,4-Dichloro-2-butene
Concen: 136.853 ug/l
RT: 12.408 min Scan# 1736
Delta R.T. 0.104 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

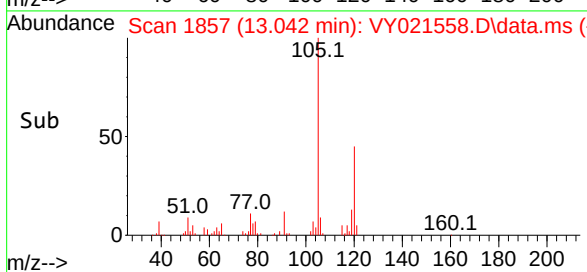
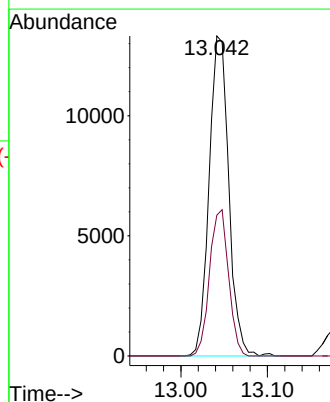
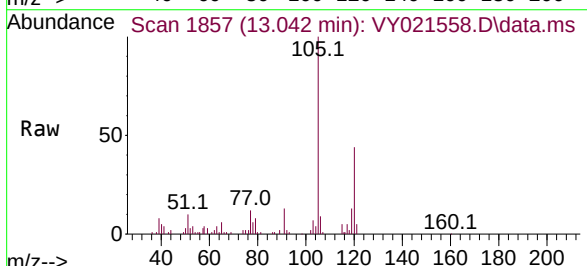
Instrument :
MSVOA_Y
ClientSampleId :

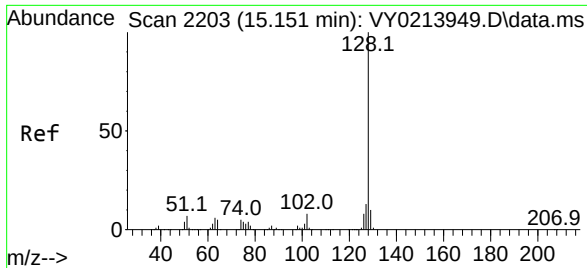
Tgt Ion: 75 Resp: 83522
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.2 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 2.393 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

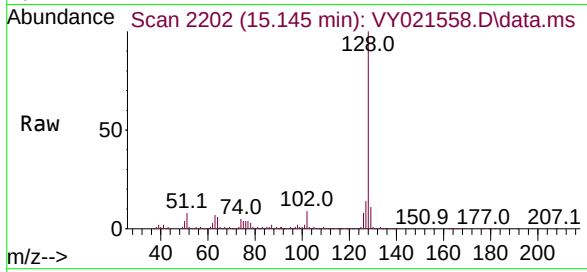
Tgt Ion: 105 Resp: 20940
Ion Ratio Lower Upper
105 100
120 44.2 22.7 68.1





#95
Naphthalene
Concen: 39.099 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY021558.D
Acq: 18 Mar 2025 11:52

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 151651
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 11.0 8.6 13.0

