

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031325\
 Data File : VY021527.D
 Acq On : 13 Mar 2025 16:05
 Operator : SY/MD
 Sample : Q1556-01RE
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-031225

Quant Time: Mar 14 14:56:56 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	215347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	418119	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	371517	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	141950	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	144356	63.423	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	126.840%
35) Dibromofluoromethane	7.634	113	145360	52.890	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.780%
50) Toluene-d8	10.109	98	512685	49.267	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.540%
62) 4-Bromofluorobenzene	12.408	95	150673	42.566	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	85.140%

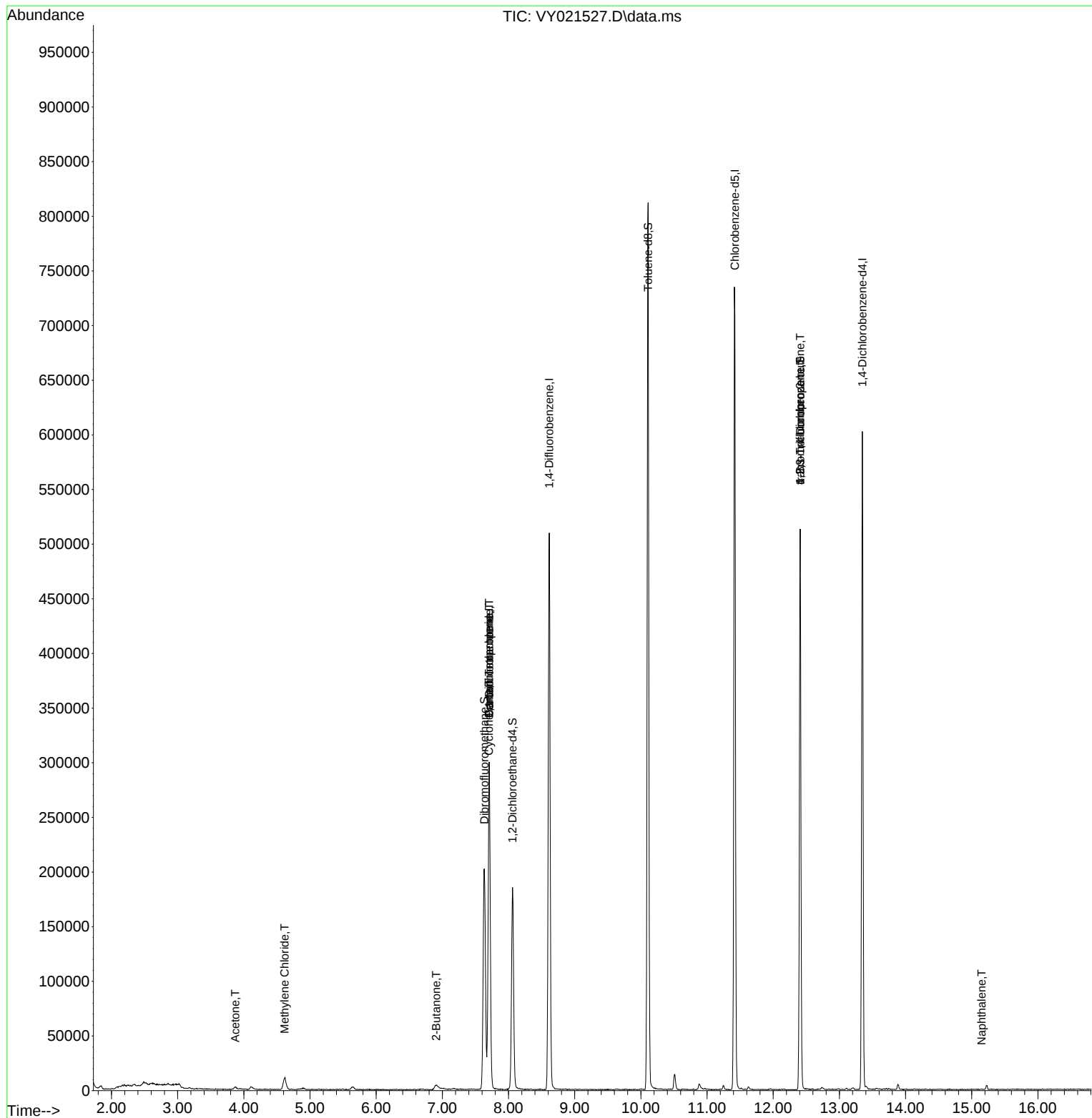
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.884	59	364	Below Cal	#	89
16) Acetone	3.872	43	3844	7.743	ug/l #	83
20) Methylene Chloride	4.616	84	7584	2.910	ug/l	97
25) 2-Butanone	6.908	43	1095	1.595	ug/l #	48
31) Cyclohexane	7.701	56	5525	1.296	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	19072	4.433	ug/l #	50
38) Carbon Tetrachloride	7.707	117	22117	4.470	ug/l #	17
76) 1,2,3-Trichloropropane	12.408	75	82027	57.345	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	82027	130.364	ug/l #	9
95) Naphthalene	15.151	128	195	1.499	ug/l #	69

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

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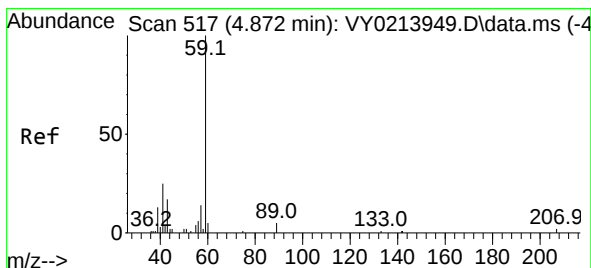
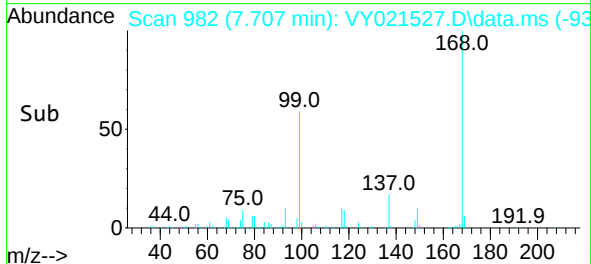
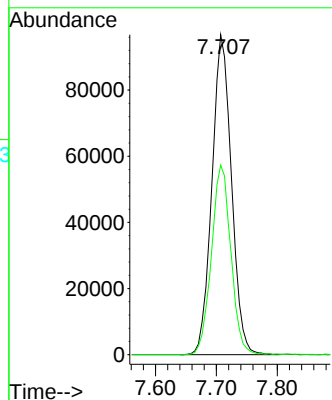
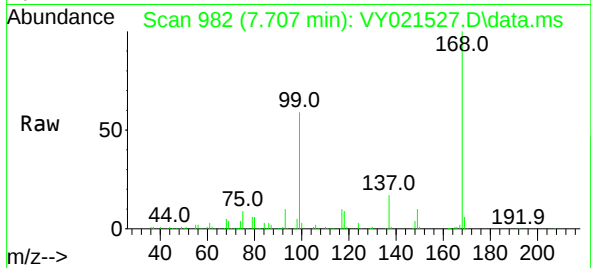




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

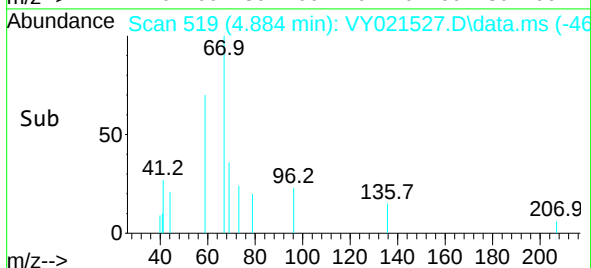
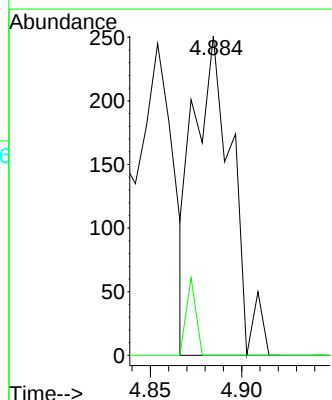
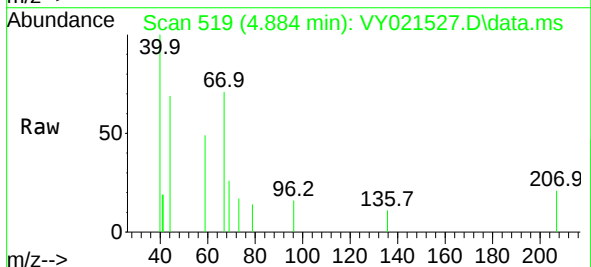
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-031225

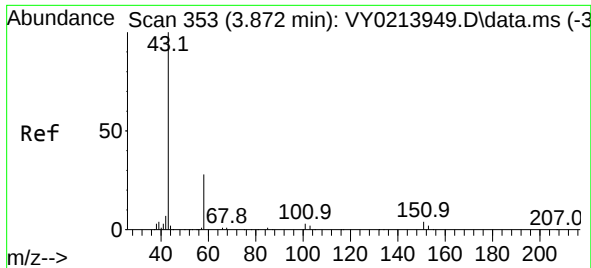
Tgt Ion:168 Resp: 215347
Ion Ratio Lower Upper
168 100
99 59.2 46.0 69.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.884 min Scan# 519
Delta R.T. 0.012 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

Tgt Ion: 59 Resp: 364
Ion Ratio Lower Upper
59 100
57 6.0 8.2 12.4#

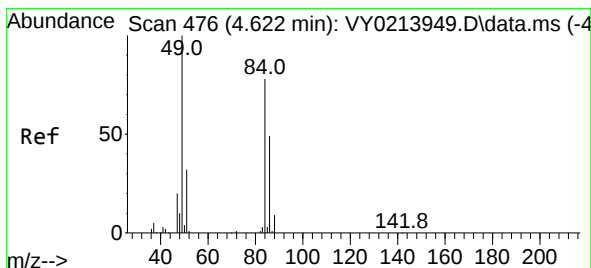
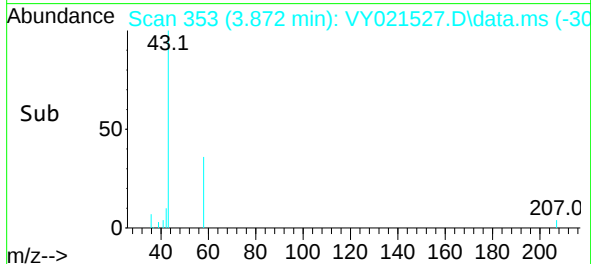
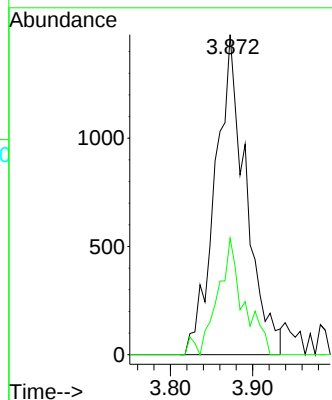
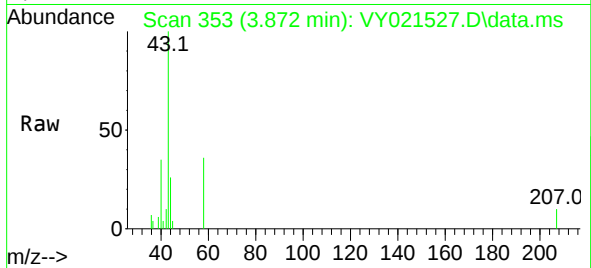




#16
Acetone
Concen: 7.743 ug/l
RT: 3.872 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

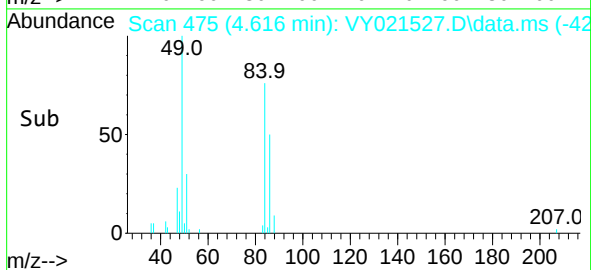
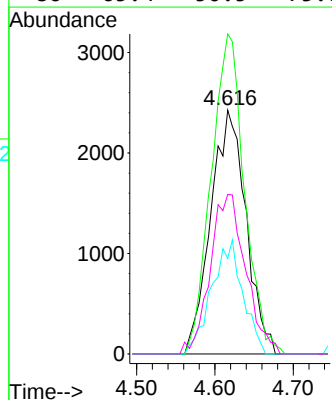
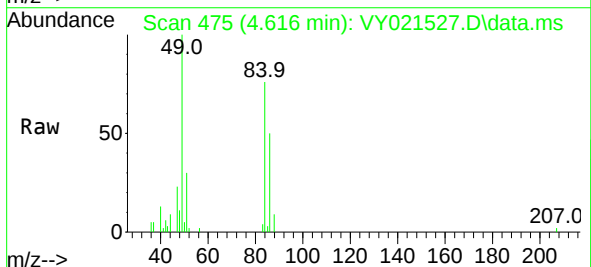
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-031225

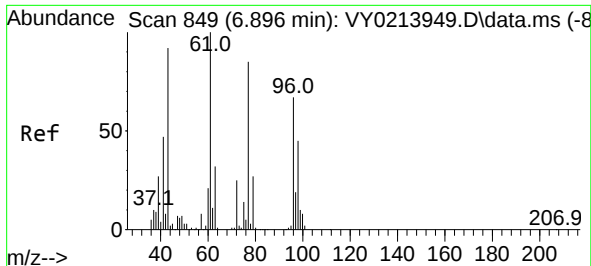
Tgt Ion: 43 Resp: 3844
Ion Ratio Lower Upper
43 100
58 36.4 22.1 33.1#



#20
Methylene Chloride
Concen: 2.910 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

Tgt Ion: 84 Resp: 7584
Ion Ratio Lower Upper
84 100
49 131.2 102.0 153.0
51 39.1 33.0 49.6
86 65.4 50.5 75.7





#25

2-Butanone

Concen: 1.595 ug/l

RT: 6.908 min Scan# 81

Delta R.T. 0.012 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

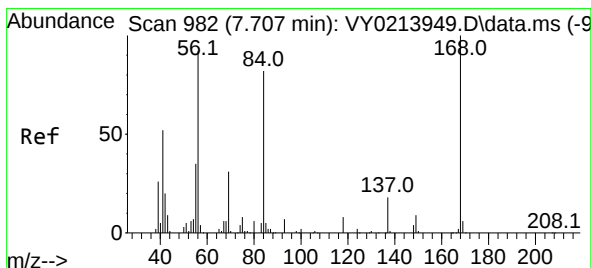
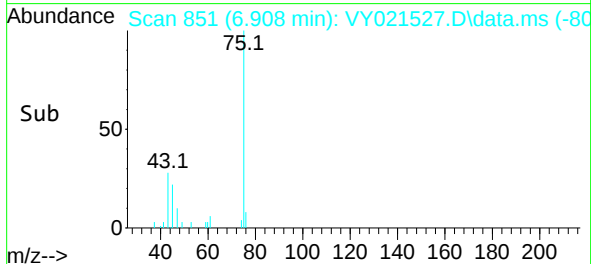
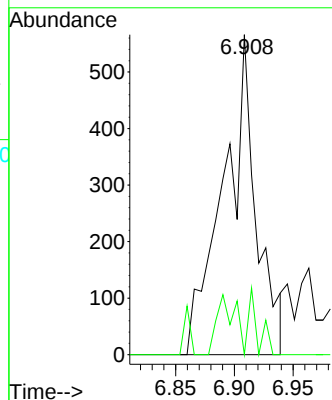
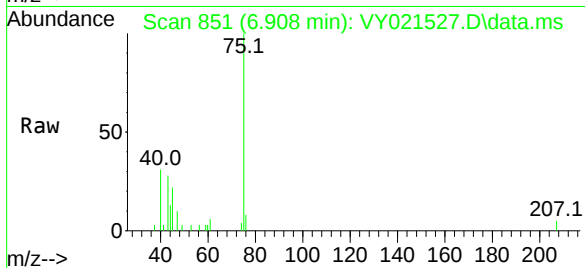
OR-02-031225

Tgt Ion: 43 Resp: 1095

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



#31

Cyclohexane

Concen: 1.296 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.006 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

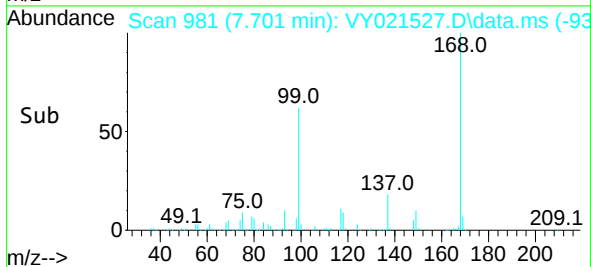
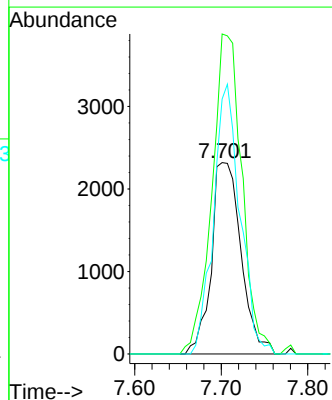
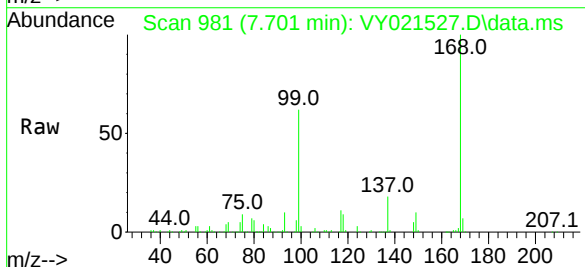
Tgt Ion: 56 Resp: 5525

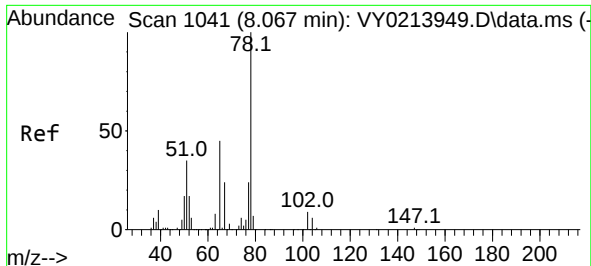
Ion Ratio Lower Upper

56 100

69 167.3 27.0 40.4#

84 133.2 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 63.423 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

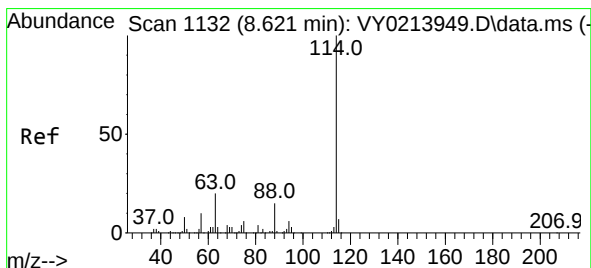
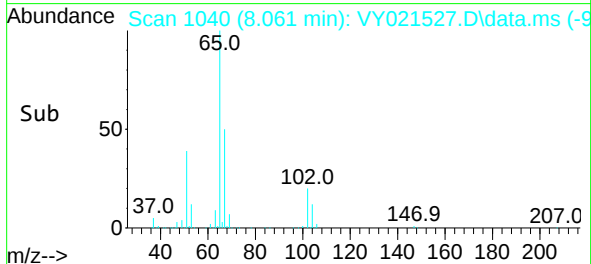
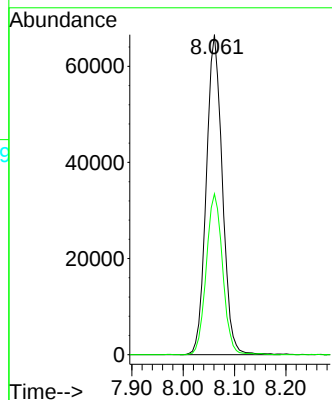
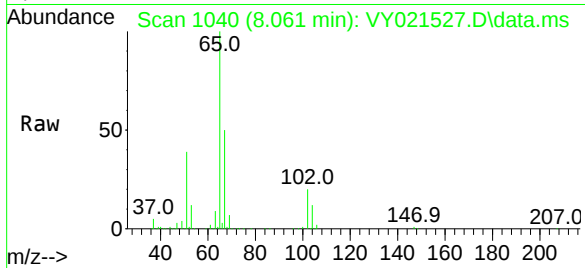
OR-02-031225

Tgt Ion: 65 Resp: 144356

Ion Ratio Lower Upper

65 100

67 51.3 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: VY021527.D

Acq: 13 Mar 2025 16:05

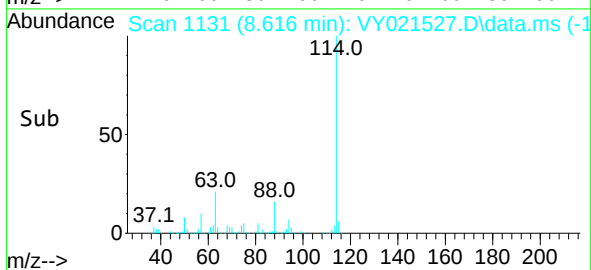
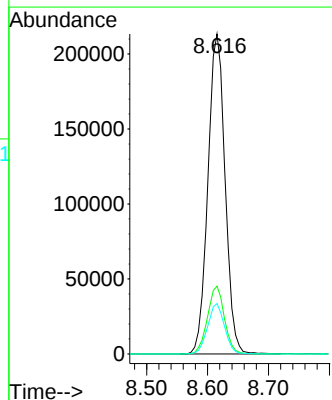
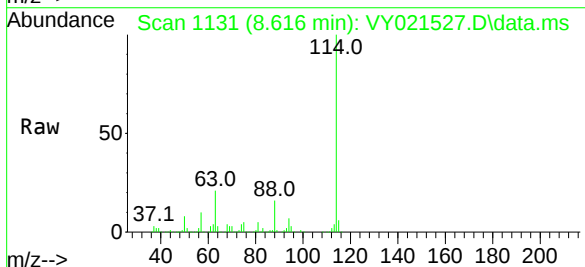
Tgt Ion: 114 Resp: 418119

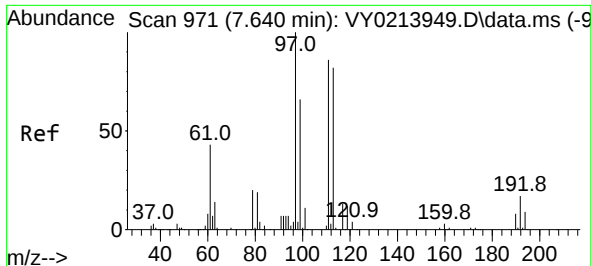
Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.8

88 15.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 52.890 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-031225

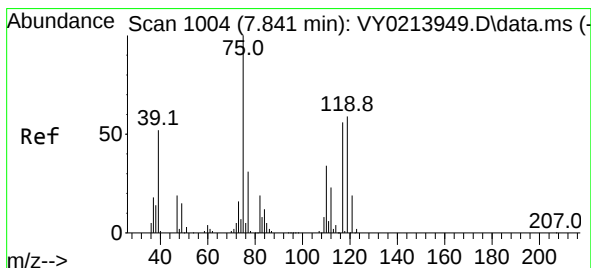
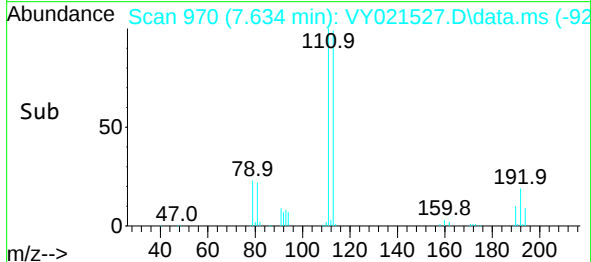
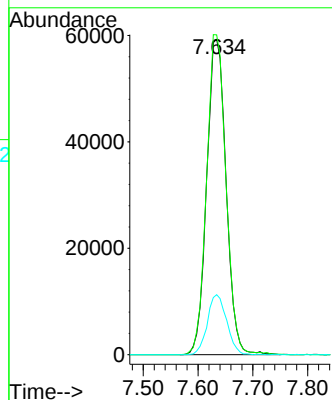
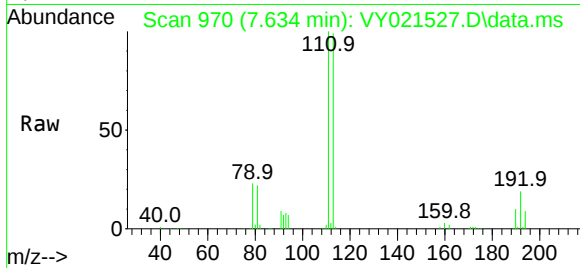
Tgt Ion:113 Resp: 145360

Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

192 18.9 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.433 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

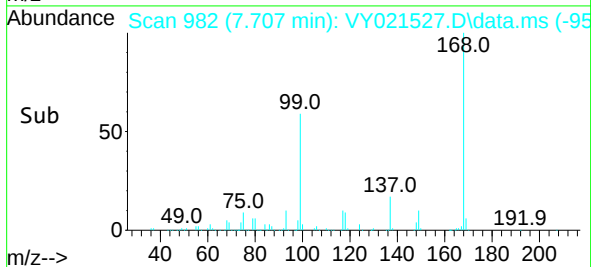
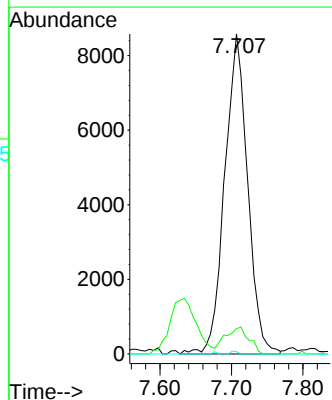
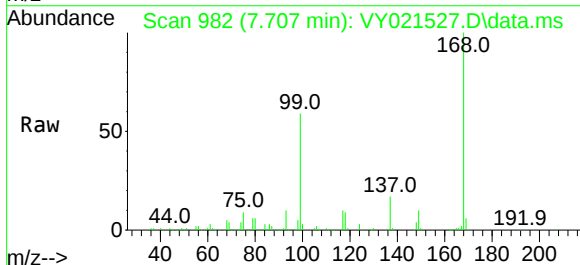
Tgt Ion: 75 Resp: 19072

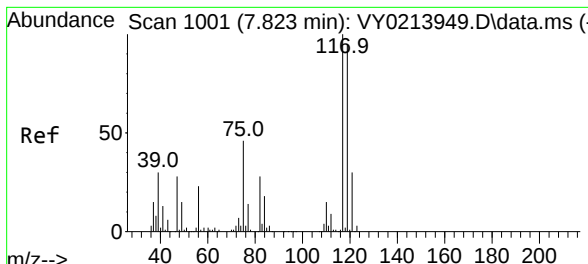
Ion Ratio Lower Upper

75 100

110 8.7 17.3 51.7#

77 0.3 25.4 38.2#

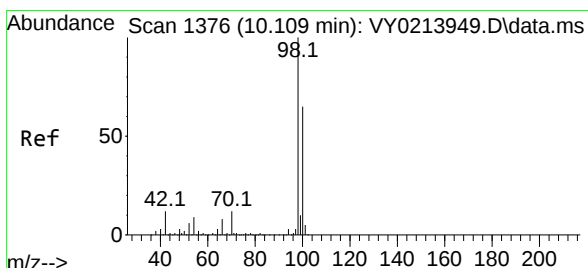
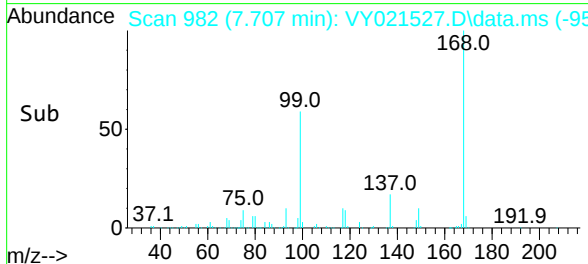
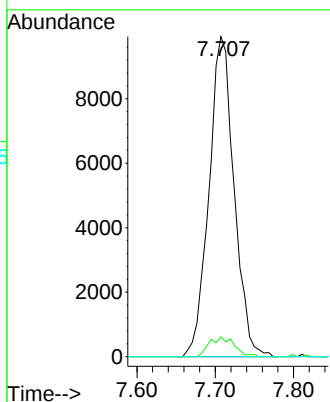
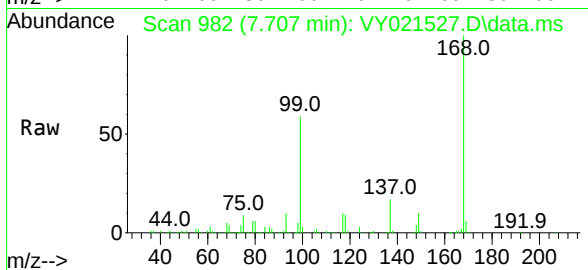




#38
Carbon Tetrachloride
Concen: 4.470 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

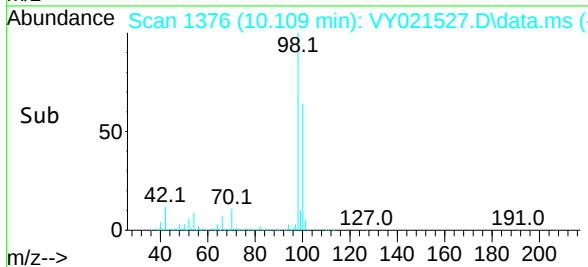
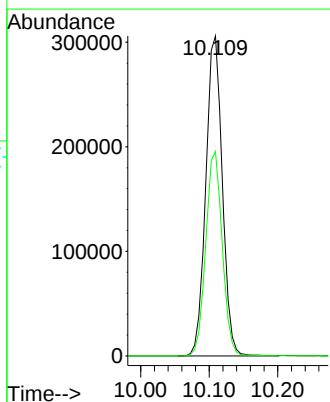
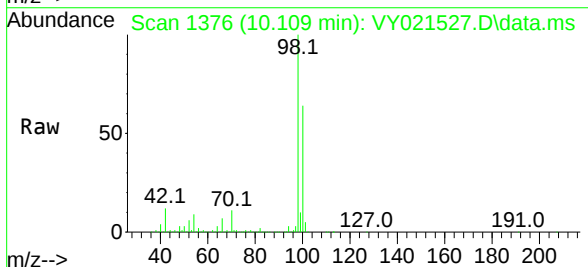
Instrument :
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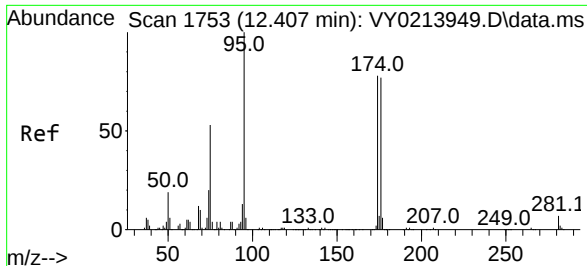
Tgt Ion:	117	Resp:	22117
Ion	Ratio	Lower	Upper
117	100		
119	6.2	75.8	113.8#
121	0.0	23.9	35.9#



#50
Toluene-d8
Concen: 49.267 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

Tgt Ion:	98	Resp:	512685
Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.1	78.1

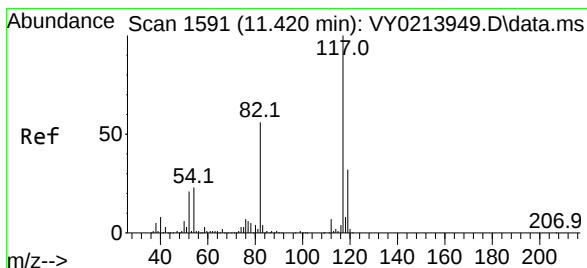
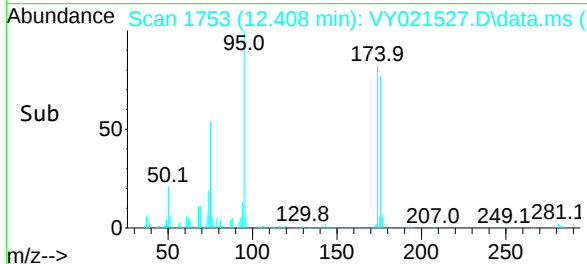
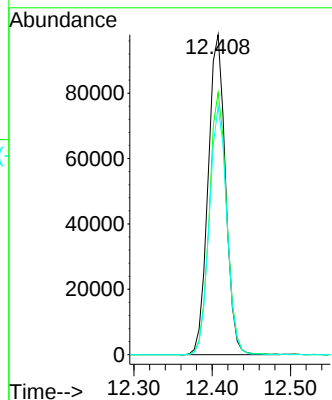
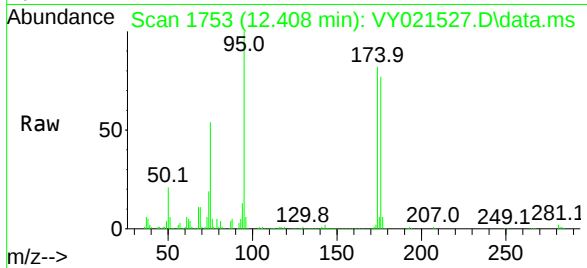




#62
4-Bromofluorobenzene
Concen: 42.566 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

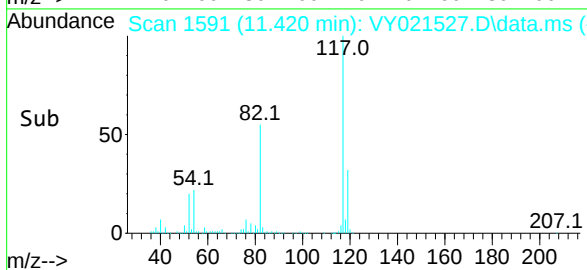
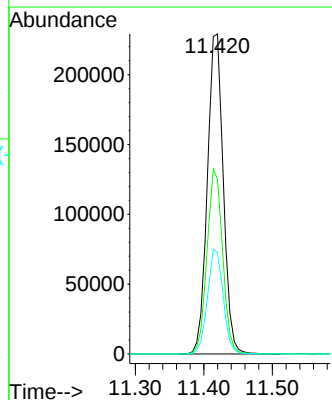
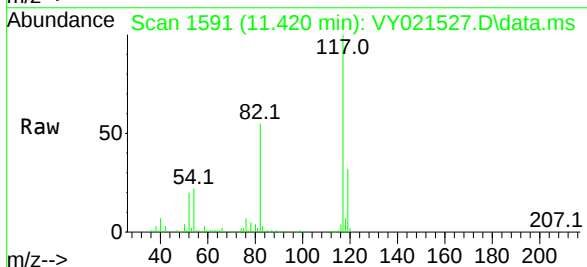
Instrument :
MSVOA_Y
ClientSampleId :
OR-02-031225

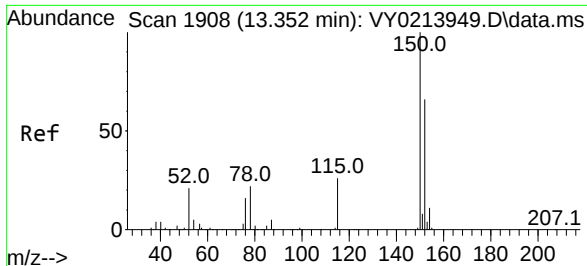
Tgt Ion: 95 Resp: 150673
Ion Ratio Lower Upper
95 100
174 82.5 0.0 165.0
176 78.1 0.0 160.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021527.D
Acq: 13 Mar 2025 16:05

Tgt Ion: 117 Resp: 371517
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 31.6 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1908

Delta R.T. -0.006 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-031225

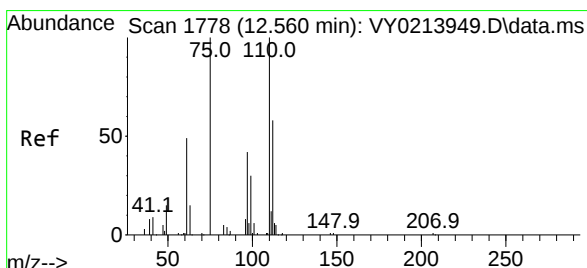
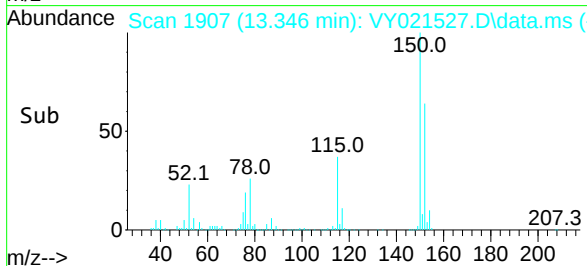
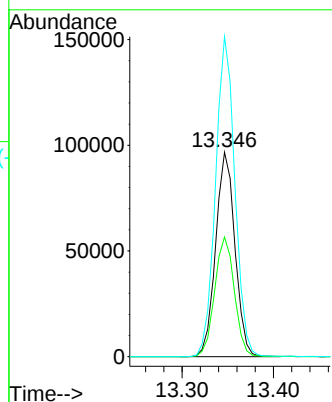
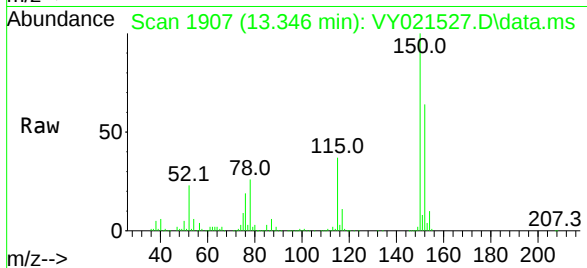
Tgt Ion:152 Resp: 141950

Ion Ratio Lower Upper

152 100

115 59.6 29.0 87.0

150 156.9 0.0 347.2



#76

1,2,3-Trichloropropane

Concen: 57.345 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY021527.D

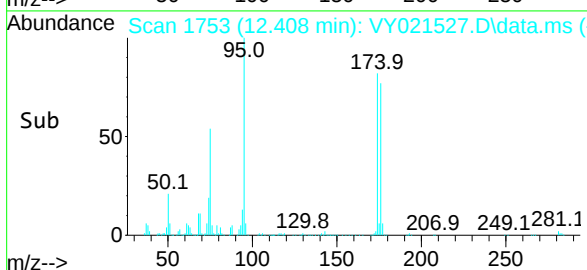
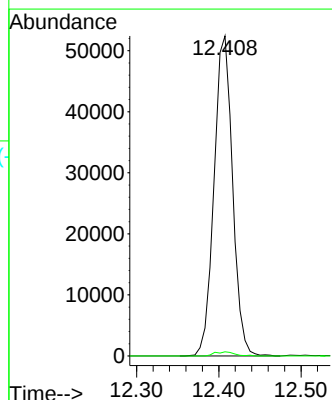
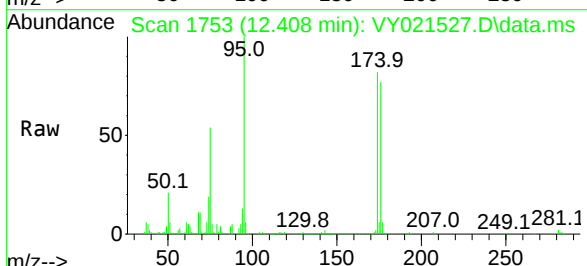
Acq: 13 Mar 2025 16:05

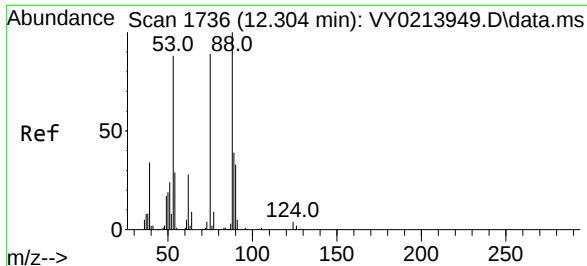
Tgt Ion: 75 Resp: 82027

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 130.364 ug/l

RT: 12.408 min Scan# 11

Delta R.T. 0.104 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-031225

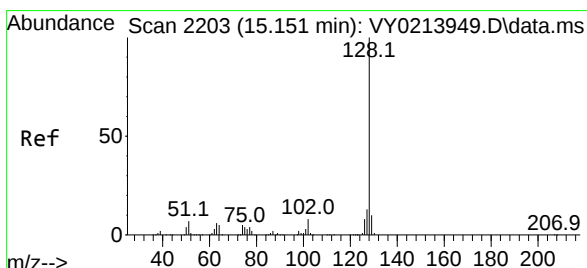
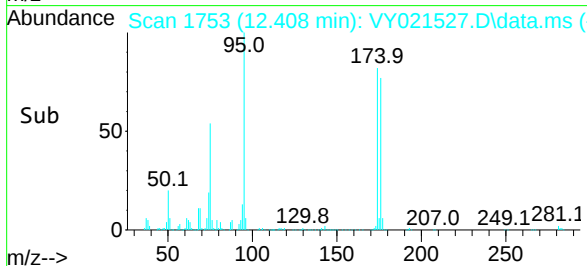
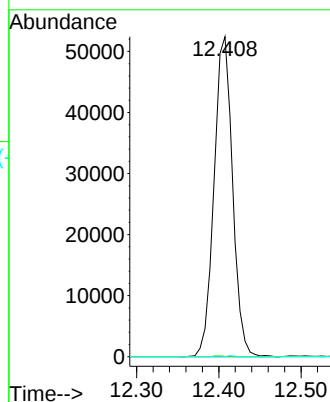
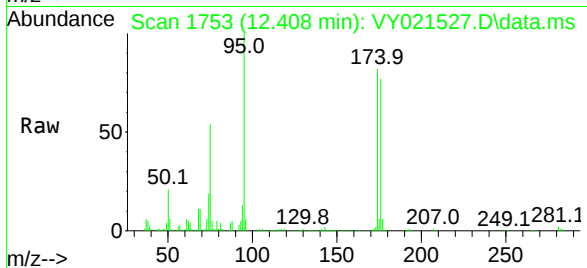
Tgt Ion: 75 Resp: 82027

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.4#

89 0.1 36.9 55.3#



#95

Naphthalene

Concen: 1.499 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021527.D

Acq: 13 Mar 2025 16:05

Tgt Ion: 128 Resp: 195

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

