

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY011320\
 Data File : VY001187.D
 Acq On : 13 Jan 2020 18:00
 Operator : SY/MD
 Sample : L1004-01
 Misc : 8.09G/5ML/MSVOA_Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 BU-RO-258

Quant Time: Jan 14 10:13:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 10 16:01:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	17947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	31522	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	26081	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	9892	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	8029	42.36	ug/l	0.00
Spiked Amount			Recovery	=	84.72%	
35) Dibromofluoromethane	7.73	113	8432	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	
50) Toluene-d8	10.18	98	36229	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	12.48	95	11077	38.10	ug/l	0.00
Spiked Amount			Recovery	=	76.20%	

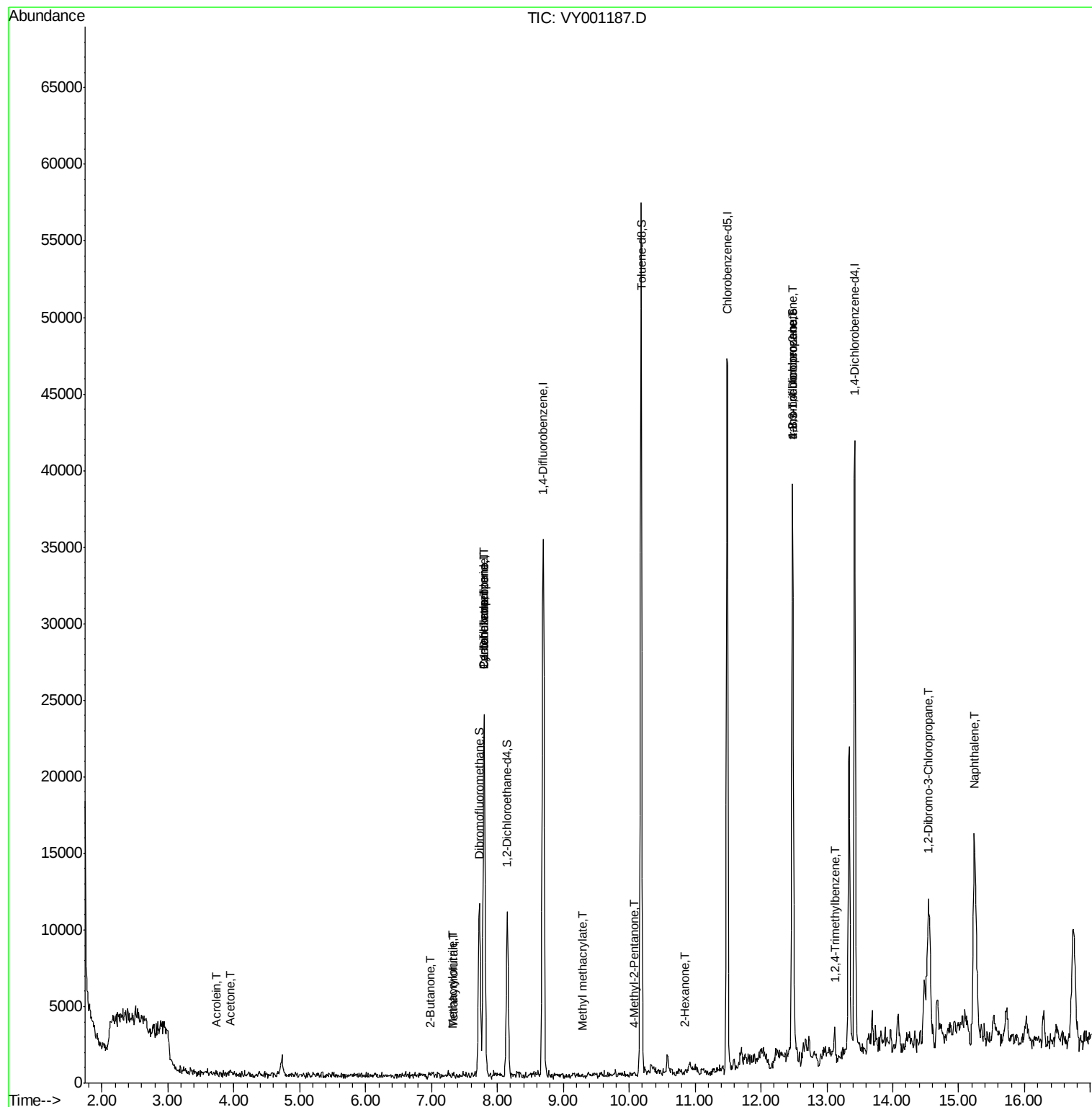
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.74	56	24	1.398	ug/l #	1
16) Acetone	3.94	43	253	5.747	ug/l #	42
20) Methylene Chloride	4.73	84	866	Below Cal	#	83
25) 2-Butanone	6.99	43	224	3.269	ug/l #	47
29) Tetrahydrofuran	7.34	42	52	1.108	ug/l #	32
31) Cyclohexane	7.80	56	557	1.519	ug/l #	19
36) 1,1-Dichloropropene	7.80	75	1304	4.539	ug/l #	49
38) Carbon Tetrachloride	7.80	117	1664	6.320	ug/l #	11
41) Methacrylonitrile	7.32	41	133	1.679	ug/l #	45
48) Methyl methacrylate	9.30	41	185	1.240	ug/l #	42
51) 4-Methyl-2-Pentanone	10.08	43	221	1.351	ug/l #	35
59) 2-Hexanone	10.84	43	190	1.657	ug/l #	23
76) 1,2,3-Trichloropropane	12.48	75	5320	50.239	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	5320	85.194	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.12	105	1136	1.844	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.55	75	709	25.121	ug/l #	2
95) Naphthalene	15.23	128	2270	5.124	ug/l #	84

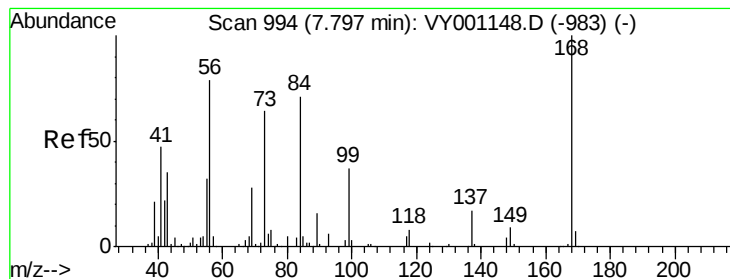
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

Instrument :

MSVOA_Y

ClientSampleId :

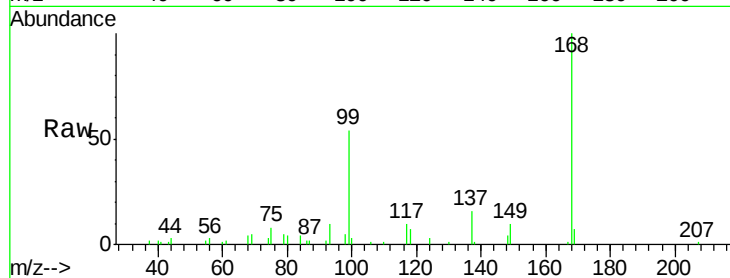
BU-RO-258

Tgt Ion:168 Resp: 17947

Ion Ratio Lower Upper

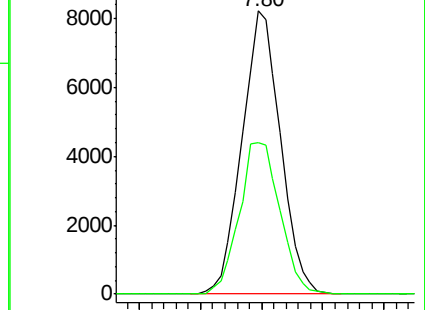
168 100

99 53.7 47.9 71.9

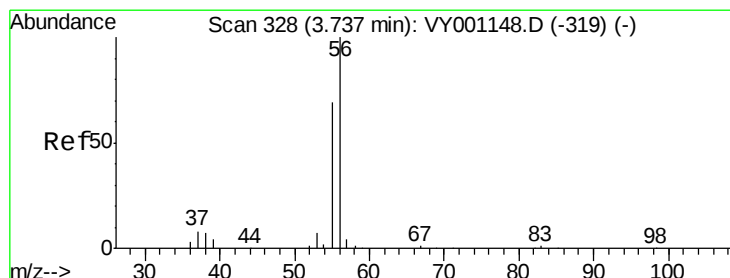
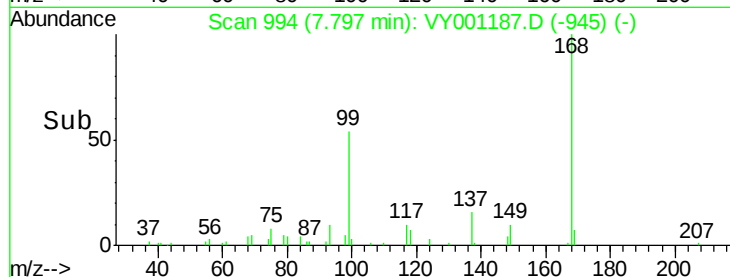


Abundance Ion 167.90 (167.60 to 168.60): VY001187.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY001187.D (-945) (-)



Time-->



#13

Acrolein

Concen: 1.398 ug/l

RT: 3.74 min Scan# 328

Delta R.T. -0.00 min

Lab File: VY001187.D

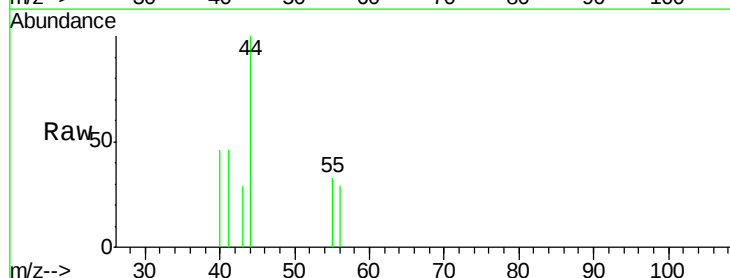
Acq: 13 Jan 2020 18:00

Tgt Ion: 56 Resp: 24

Ion Ratio Lower Upper

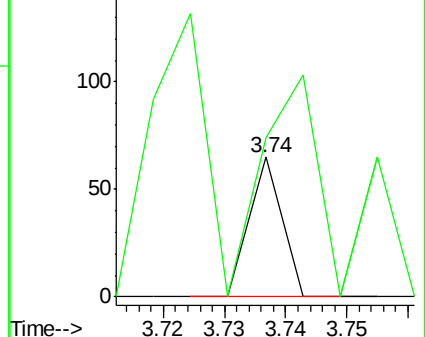
56 100

55 341.7 56.7 85.1#

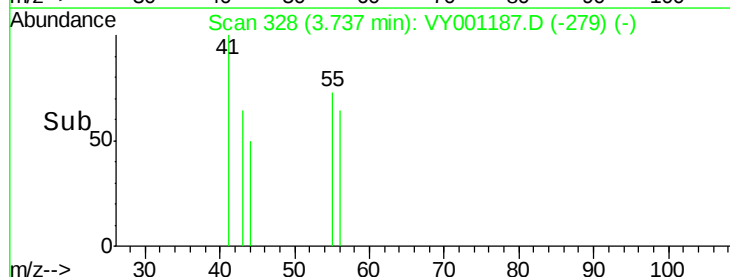


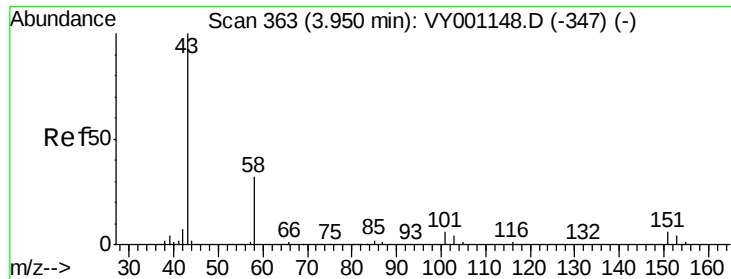
Abundance Ion 56.00 (55.70 to 56.70): VY001187.D (-279) (-)

Ion 55.00 (54.70 to 55.70): VY001187.D (-279) (-)



Time-->





#16

Acetone

Concen: 5.747 ug/l

RT: 3.94 min Scan# 362

Delta R.T. -0.01 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

Instrument :

MSVOA_Y

ClientSampleId :

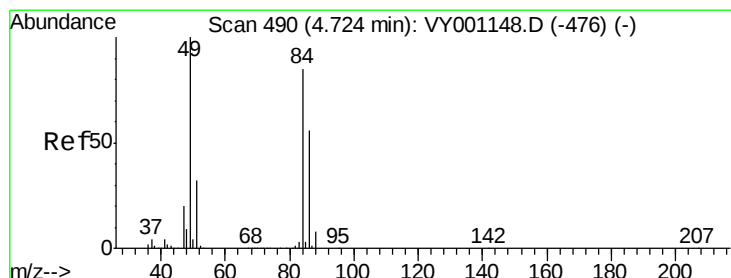
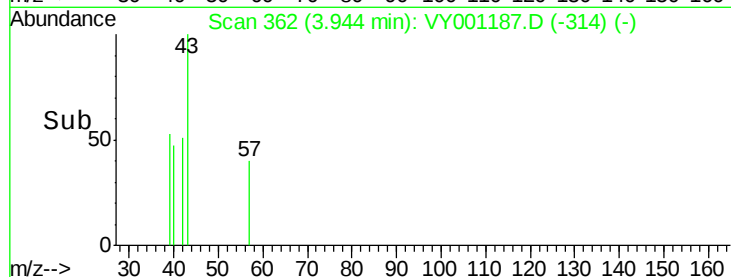
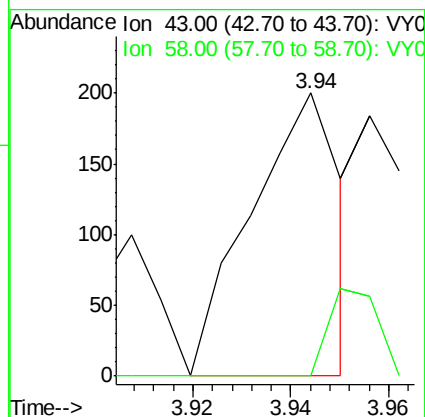
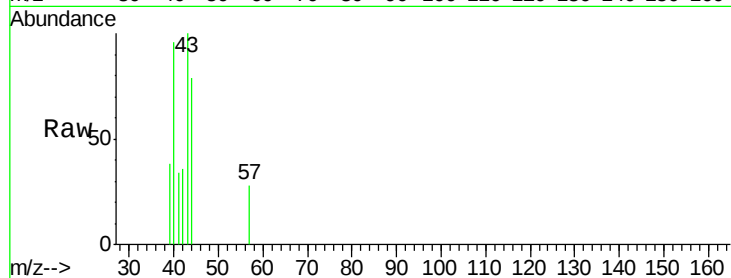
BU-RO-258

Tgt Ion: 43 Resp: 253

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

Tgt Ion: 84 Resp: 866

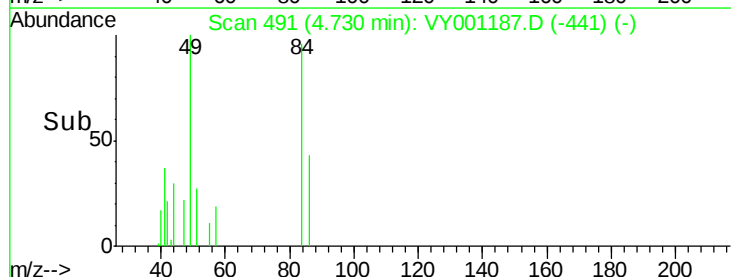
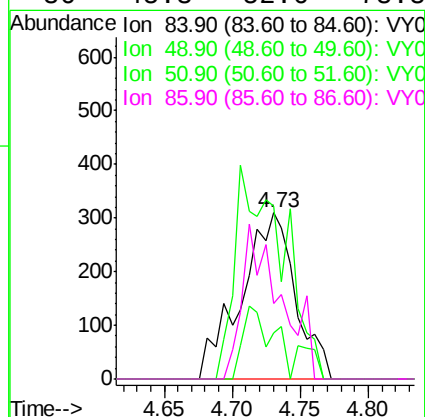
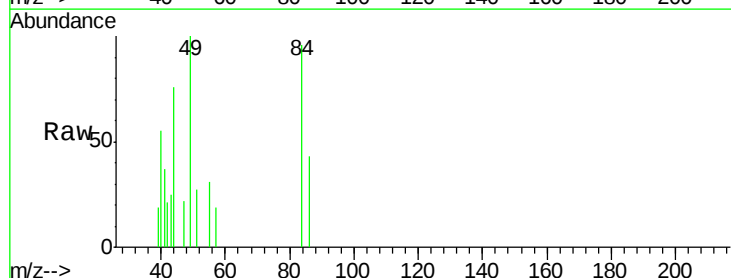
Ion Ratio Lower Upper

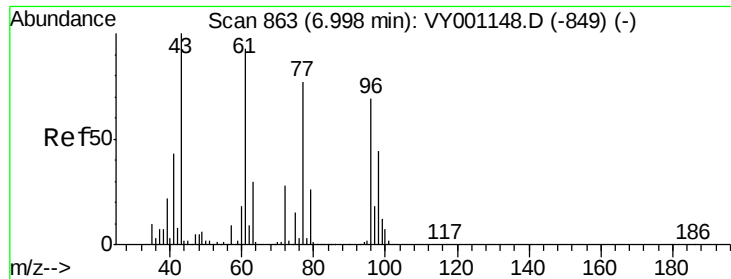
84 100

49 104.5 93.8 140.6

51 27.8 29.9 44.9#

86 45.3 52.6 78.8#





#25

2-Butanone

Concen: 3.269 ug/l

RT: 6.99 min Scan# 861

Delta R.T. -0.01 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

Instrument :

MSVOA_Y

ClientSampleId :

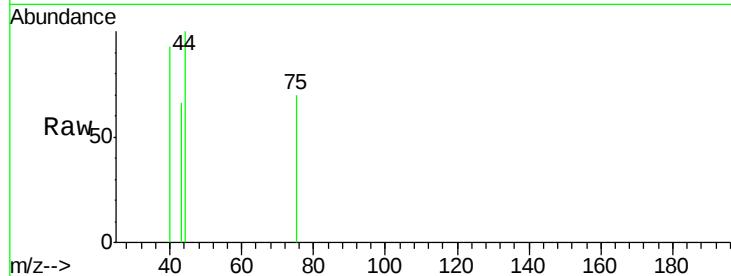
BU-RO-258

Tgt Ion: 43 Resp: 224

Ion Ratio Lower Upper

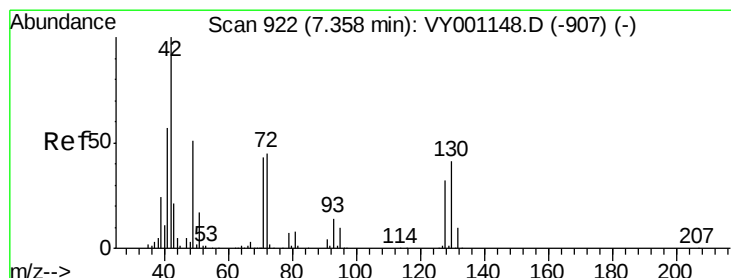
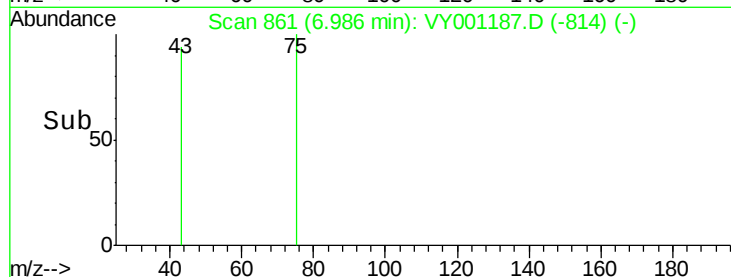
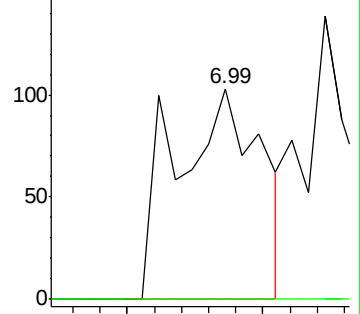
43 100

72 0.0 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#29

Tetrahydrofuran

Concen: 1.108 ug/l

RT: 7.34 min Scan# 919

Delta R.T. -0.02 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

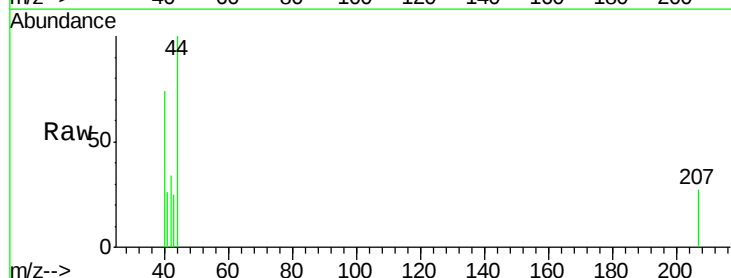
Tgt Ion: 42 Resp: 52

Ion Ratio Lower Upper

42 100

72 0.0 36.9 55.3#

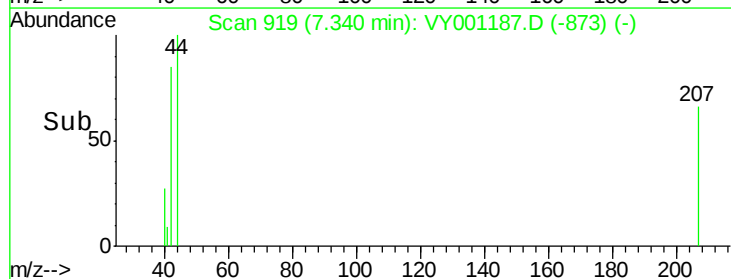
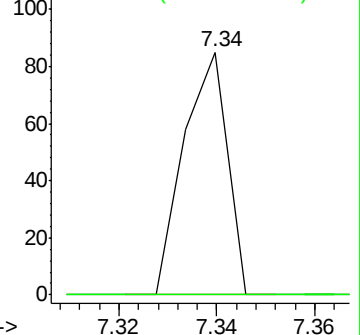
71 0.0 34.0 51.0#

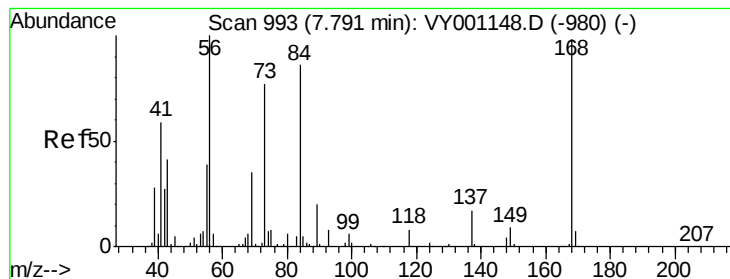


Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0





#31

Cyclohexane

Concen: 1.519 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

Instrument :

MSVOA_Y

ClientSampleId :

BU-RO-258

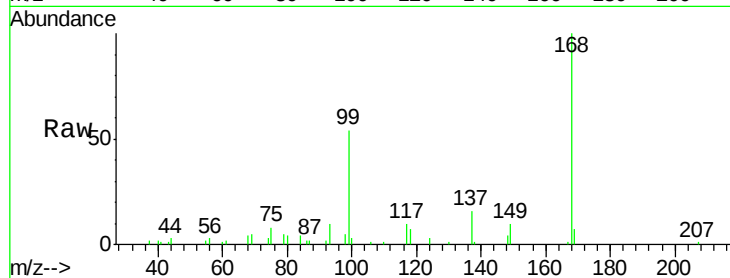
Tgt Ion: 56 Resp: 557

Ion Ratio Lower Upper

56 100

69 139.7 27.8 41.8#

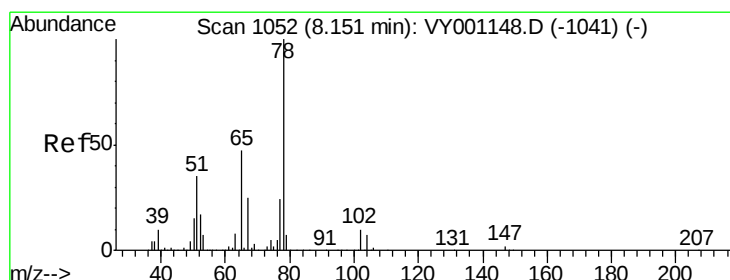
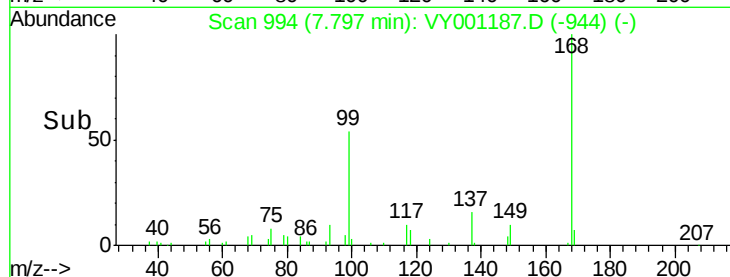
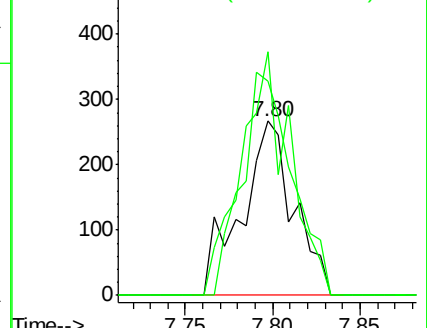
84 123.2 68.9 103.3#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 42.358 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VY001187.D

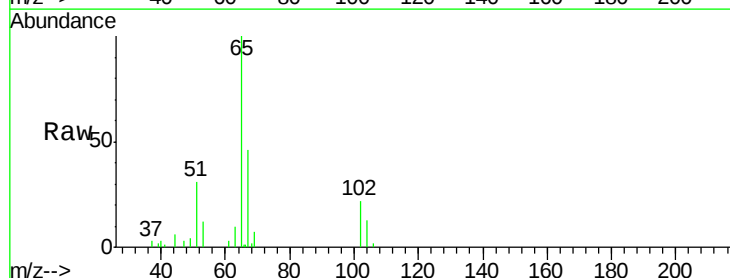
Acq: 13 Jan 2020 18:00

Tgt Ion: 65 Resp: 8029

Ion Ratio Lower Upper

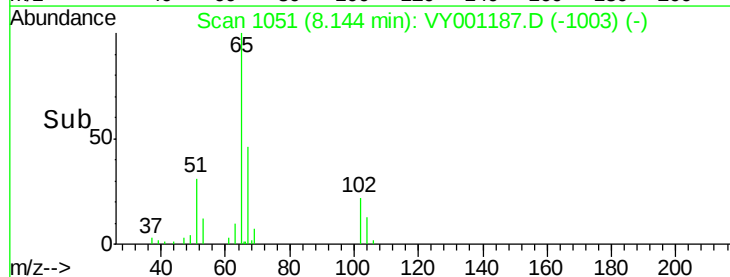
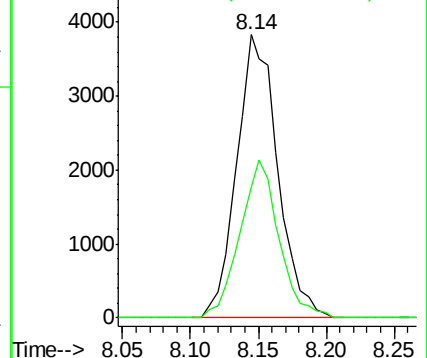
65 100

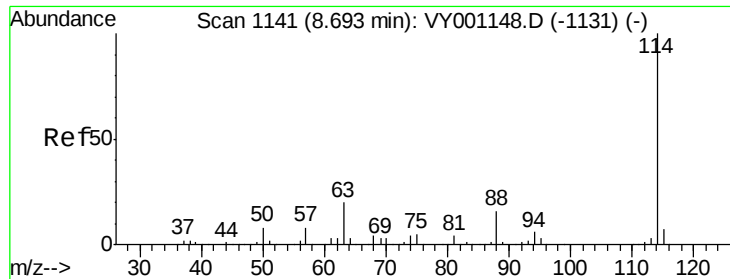
67 53.0 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

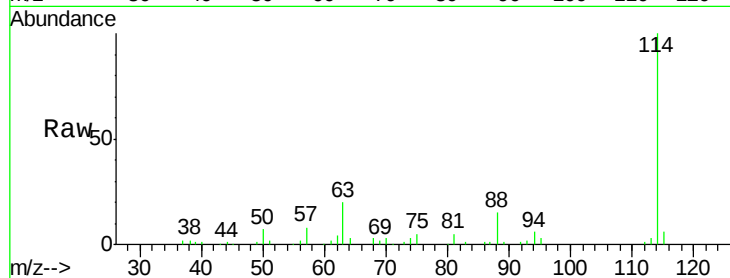




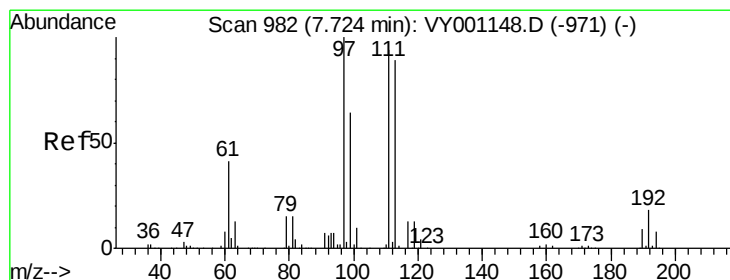
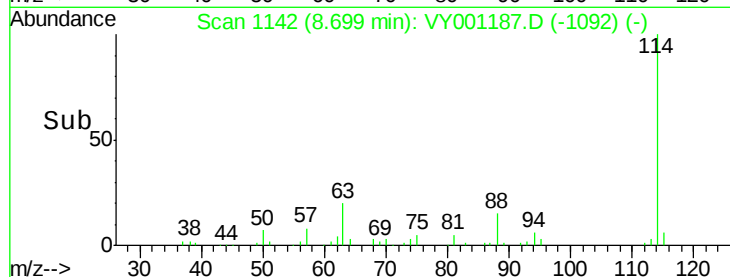
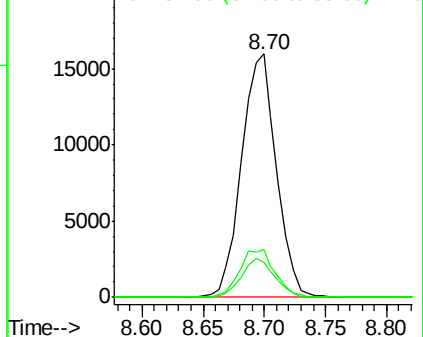
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. 0.01 min
 Lab File: VY001187.D
 Acq: 13 Jan 2020 18:00

Instrument :
 MSVOA_Y
 ClientSampleId :
 BU-RO-258

Tgt Ion:114 Resp: 31522
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.8
 88 14.6 0.0 32.4

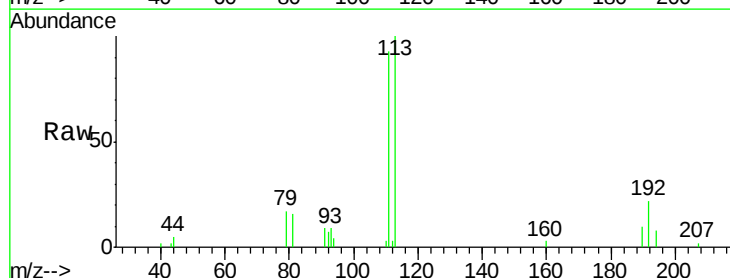


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

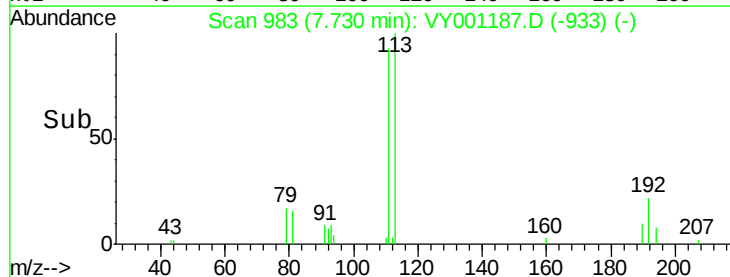
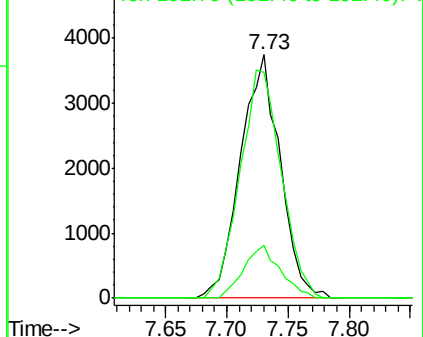


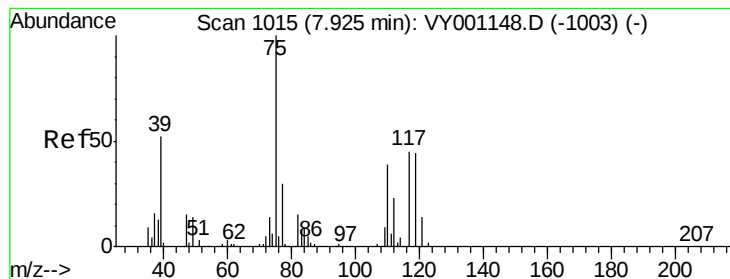
#35
 Dibromofluoromethane
 Concen: 45.687 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.01 min
 Lab File: VY001187.D
 Acq: 13 Jan 2020 18:00

Tgt Ion:113 Resp: 8432
 Ion Ratio Lower Upper
 113 100
 111 97.9 82.9 124.3
 192 20.0 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.539 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

Instrument :

MSVOA_Y

ClientSampleId :

BU-RO-258

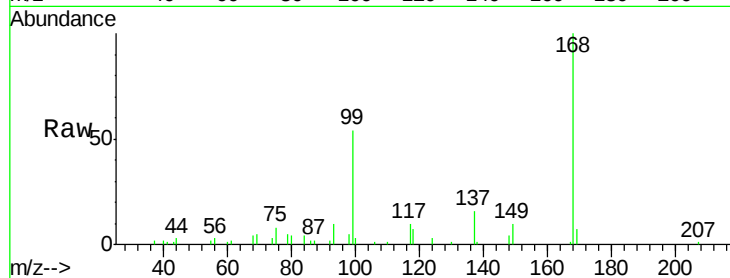
Tgt Ion: 75 Resp: 1304

Ion Ratio Lower Upper

75 100

110 9.4 18.3 54.8#

77 0.0 25.1 37.7#



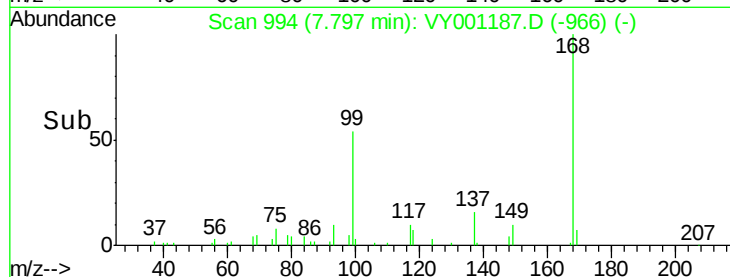
Abundance Ion 74.90 (74.60 to 75.60): VY001187.D (-966) (-)

Ion 109.90 (109.60 to 110.60): VY001187.D (-966) (-)

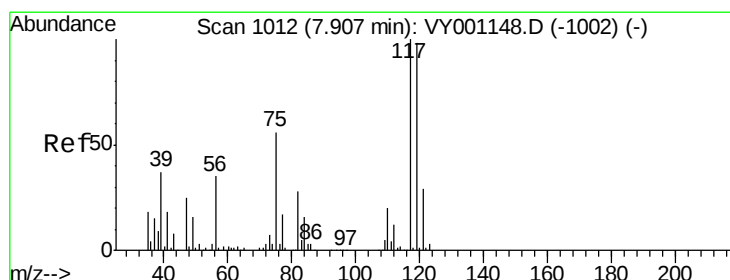
Ion 76.90 (76.60 to 77.60): VY001187.D (-966) (-)

7.80

7.75 7.80 7.85



Time-->



#38

Carbon Tetrachloride

Concen: 6.320 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

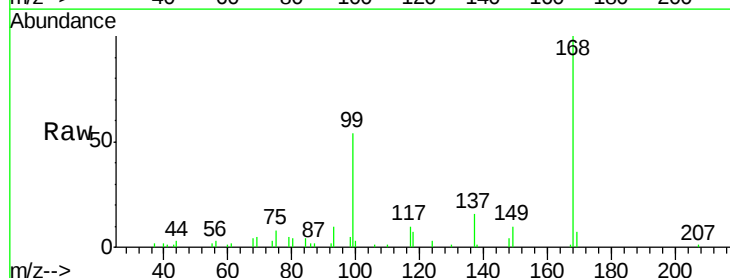
Tgt Ion: 117 Resp: 1664

Ion Ratio Lower Upper

117 100

119 0.0 78.3 117.5#

121 0.0 23.5 35.3#



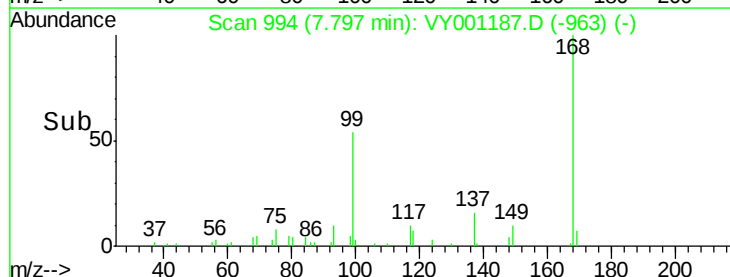
Abundance Ion 116.80 (116.50 to 117.50): VY001187.D (-963) (-)

Ion 118.80 (118.50 to 119.50): VY001187.D (-963) (-)

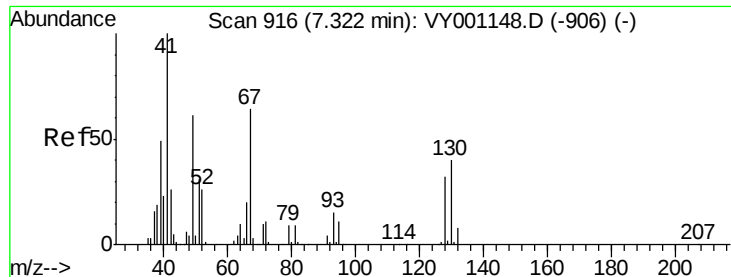
Ion 120.80 (120.50 to 121.50): VY001187.D (-963) (-)

7.80

7.75 7.80 7.85



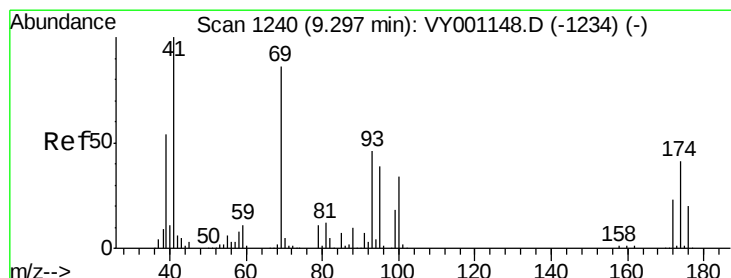
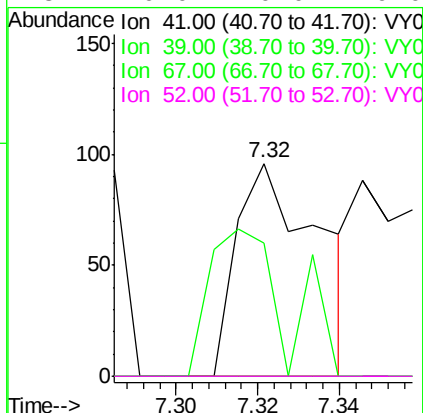
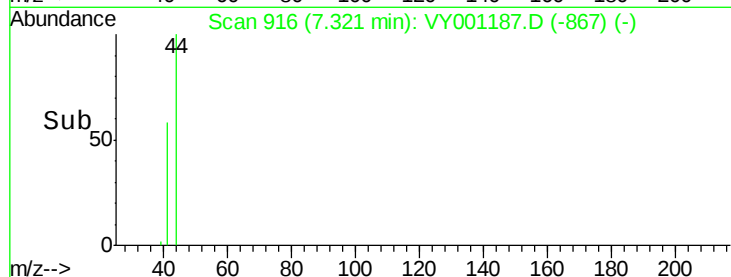
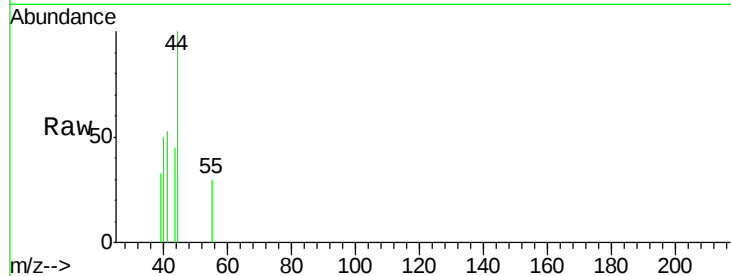
Time-->



#41
Methacrylonitrile
Concen: 1.679 ug/l
RT: 7.32 min Scan# 916
Delta R.T. -0.00 min
Lab File: VY001187.D
Acq: 13 Jan 2020 18:00

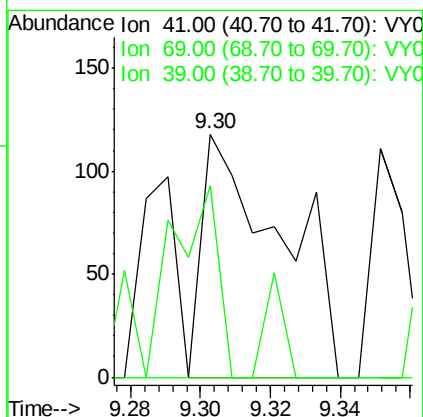
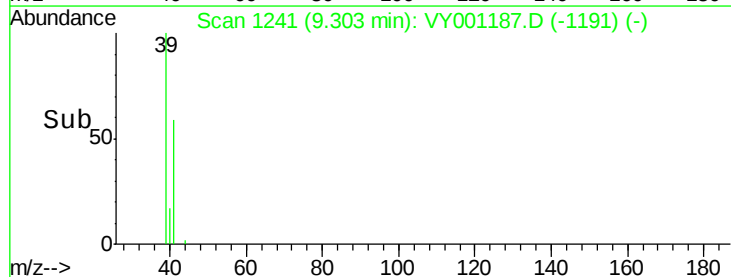
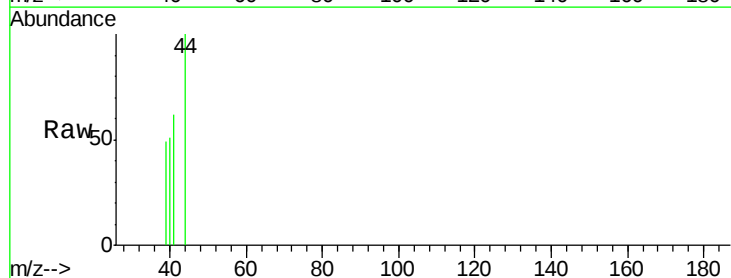
Instrument :
MSVOA_Y
ClientSampled :
BU-RO-258

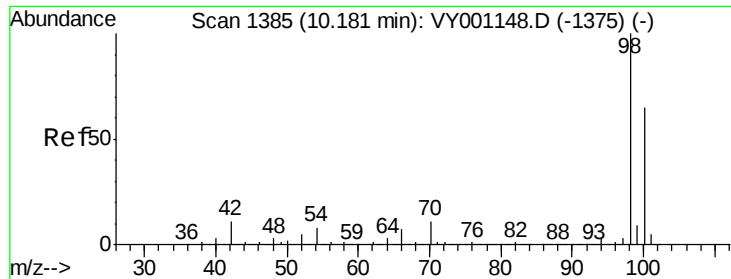
Tgt Ion: 41 Resp: 133
Ion Ratio Lower Upper
41 100
39 65.4 103.5 155.3#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#48
Methyl methacrylate
Concen: 1.240 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VY001187.D
Acq: 13 Jan 2020 18:00

Tgt Ion: 41 Resp: 185
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.8#
39 55.1 45.2 67.8





#50

Toluene-d8

Concen: 50.945 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY001187.D

Acq: 13 Jan 2020 18:00

Instrument :

MSVOA_Y

ClientSampleId :

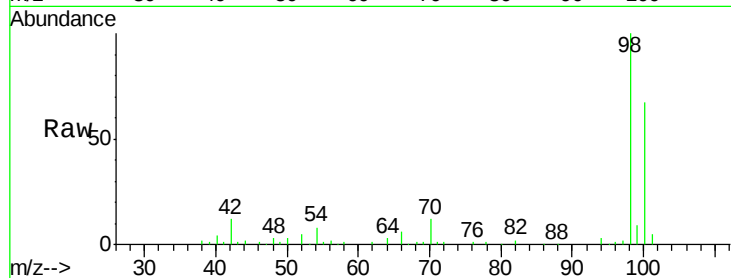
BU-RO-258

Tgt Ion: 98 Resp: 36229

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY001187.D (-1375) (-)

Ion 100.00 (99.70 to 100.70): VY001187.D (-1375) (-)

10.18

25000

20000

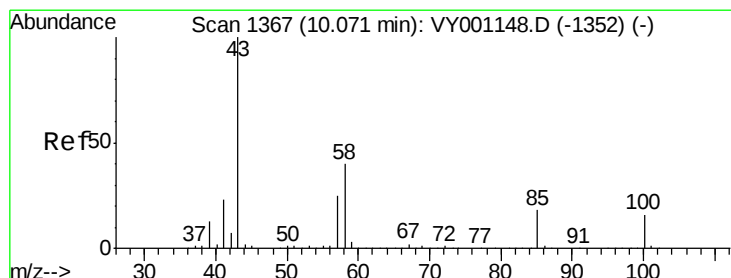
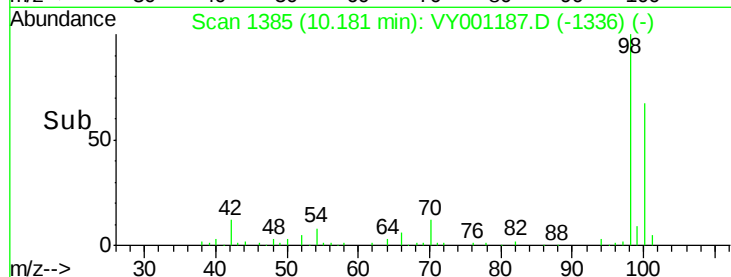
15000

10000

5000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.351 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VY001187.D

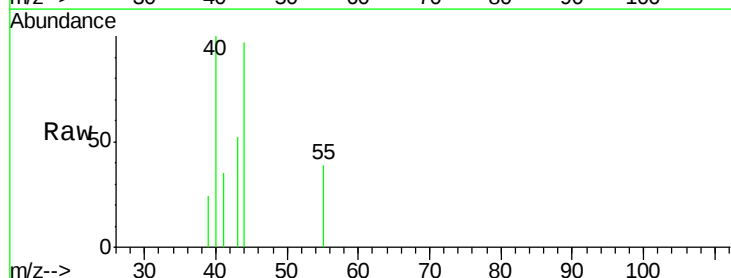
Acq: 13 Jan 2020 18:00

Tgt Ion: 43 Resp: 221

Ion Ratio Lower Upper

43 100

58 0.0 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VY001187.D (-1318) (-)

Ion 58.00 (57.70 to 58.70): VY001187.D (-1318) (-)

10.08

120

100

80

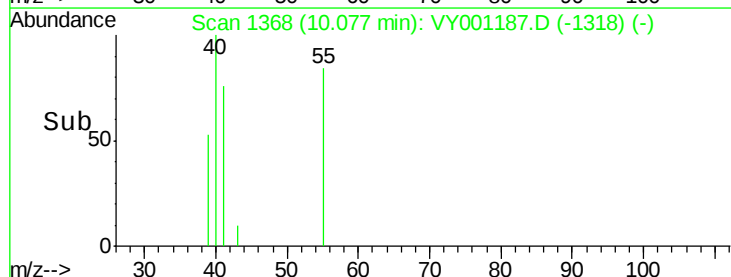
60

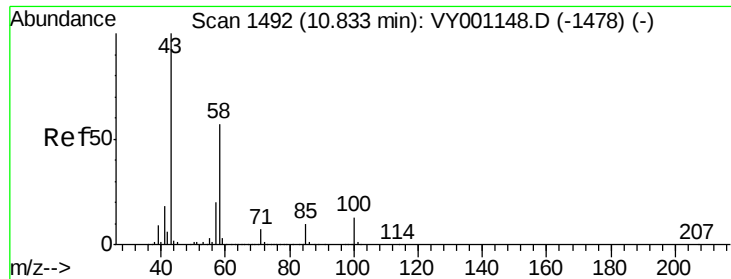
40

20

0

Time-->

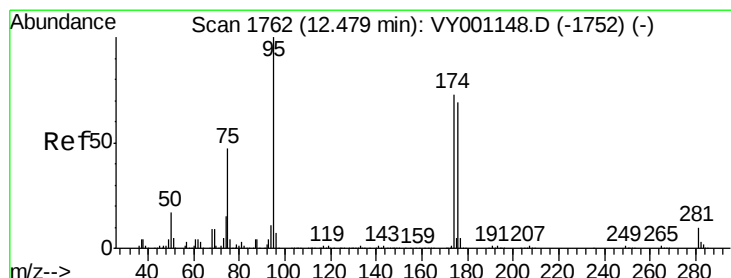
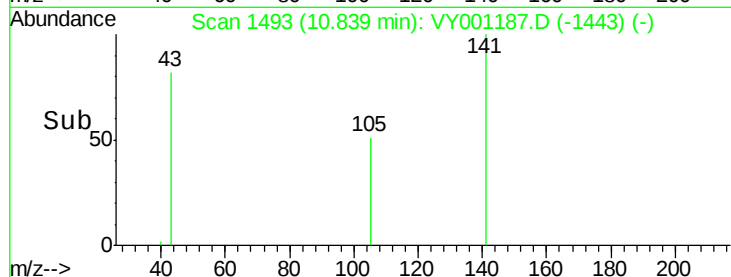
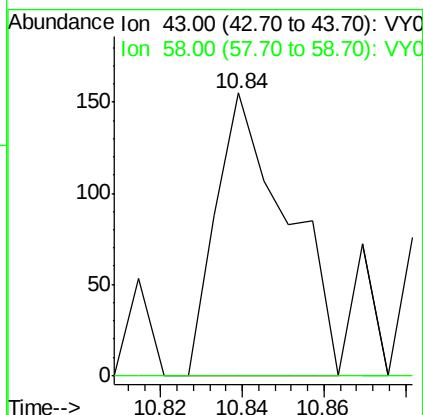
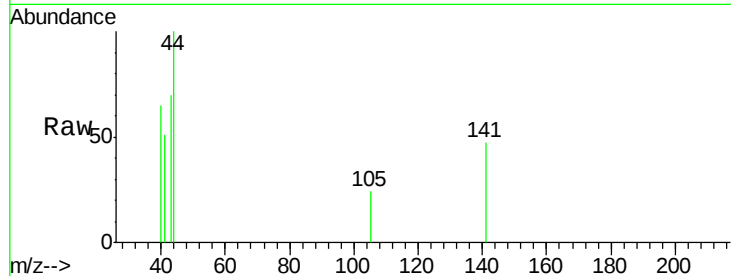




#59
2-Hexanone
Concen: 1.657 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VY001187.D
Acq: 13 Jan 2020 18:00

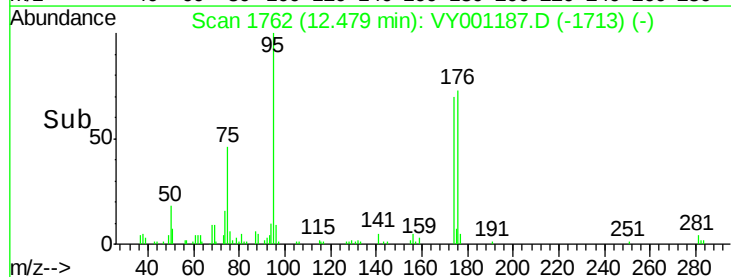
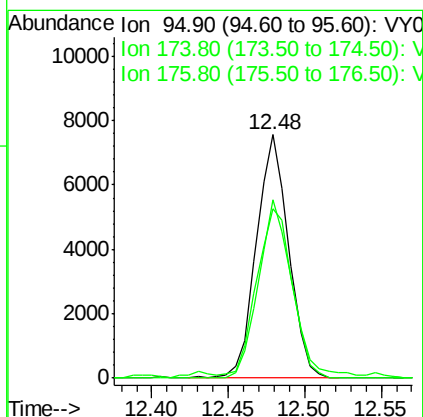
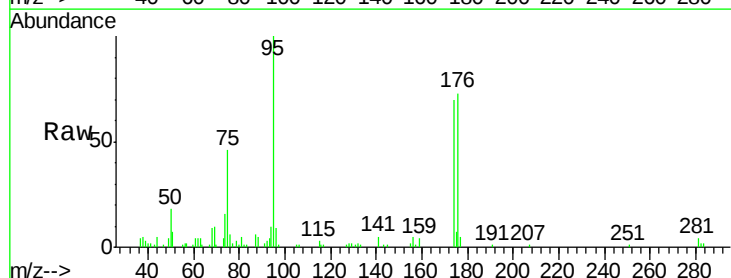
Instrument :
MSVOA_Y
ClientSampled :
BU-RO-258

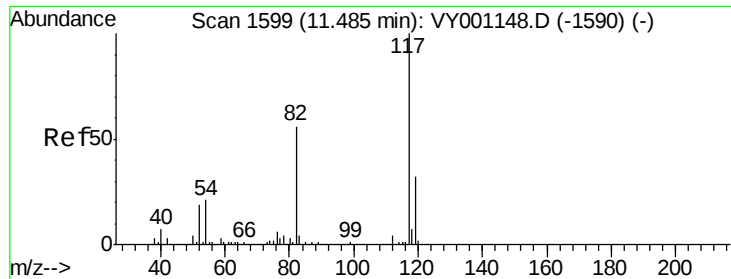
Tgt Ion: 43 Resp: 190
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.2#



#62
4-Bromofluorobenzene
Concen: 38.100 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY001187.D
Acq: 13 Jan 2020 18:00

Tgt Ion: 95 Resp: 11077
Ion Ratio Lower Upper
95 100
174 78.3 0.0 143.2
176 74.3 0.0 136.0

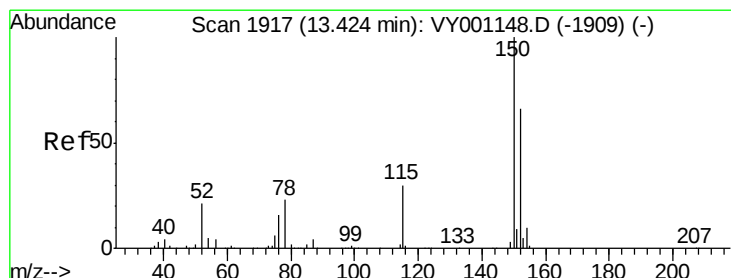
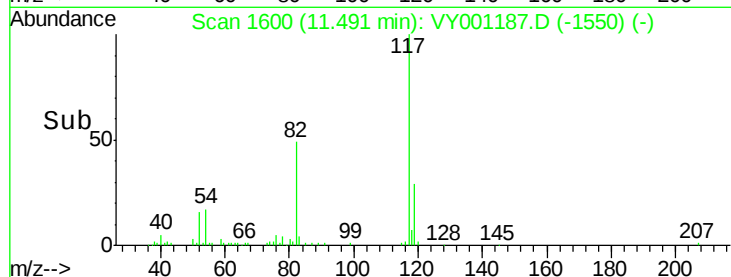
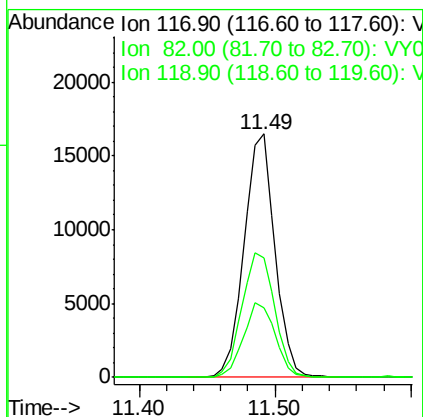
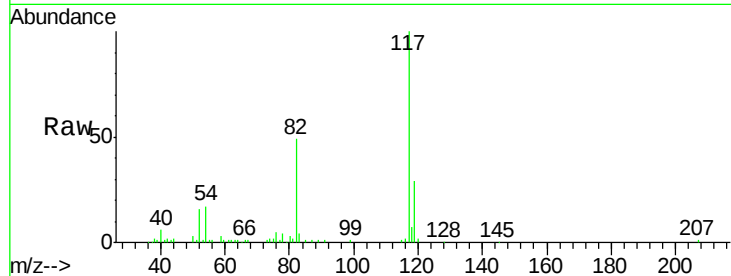




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VY001187.D
Acq: 13 Jan 2020 18:00

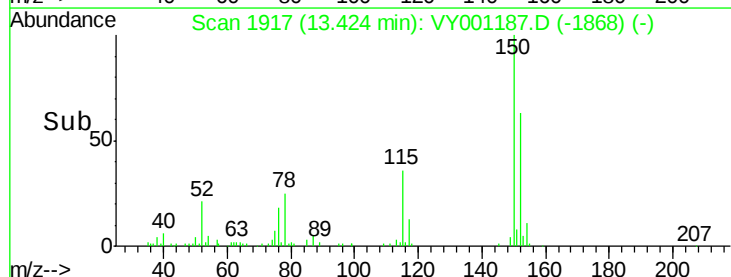
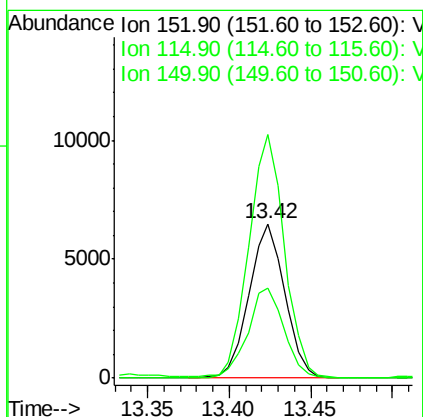
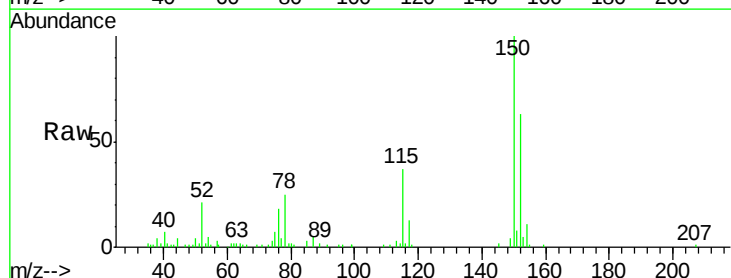
Instrument :
MSVOA_Y
ClientSampleId :
BU-RO-258

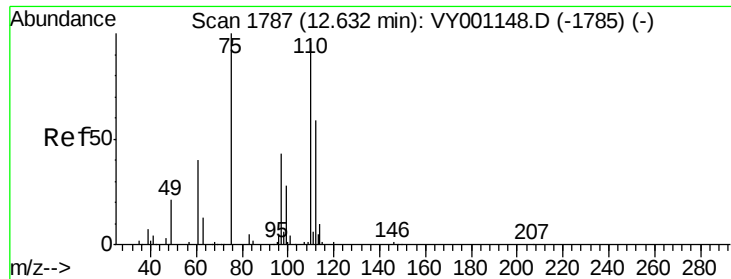
Tgt Ion:117 Resp: 26081
Ion Ratio Lower Upper
117 100
82 49.3 44.9 67.3
119 28.5 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY001187.D
Acq: 13 Jan 2020 18:00

Tgt Ion:152 Resp: 9892
Ion Ratio Lower Upper
152 100
115 59.6 30.9 92.5
150 156.5 0.0 346.8

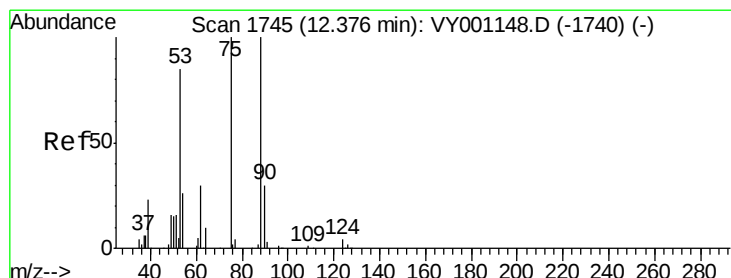
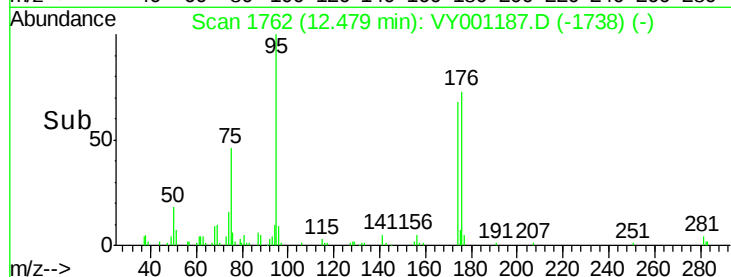
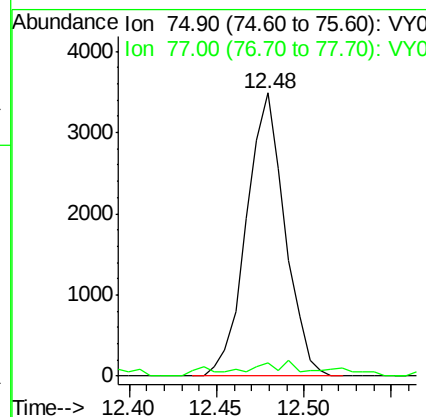
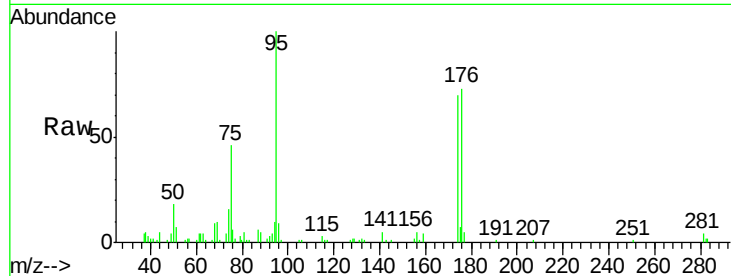




#76
 1,2,3-Trichloropropane
 Concen: 50.239 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.15 min
 Lab File: VY001187.D
 Acq: 13 Jan 2020 18:00

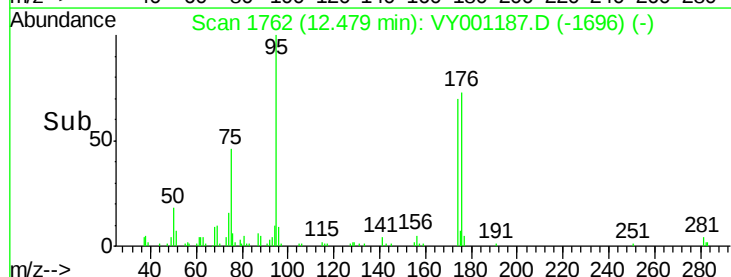
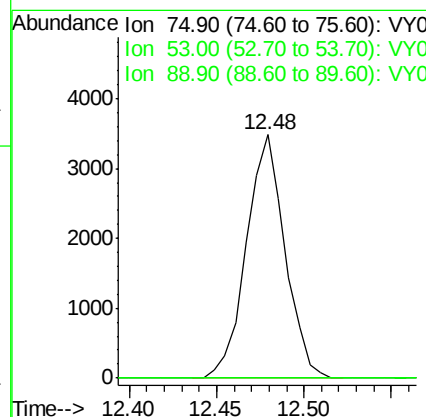
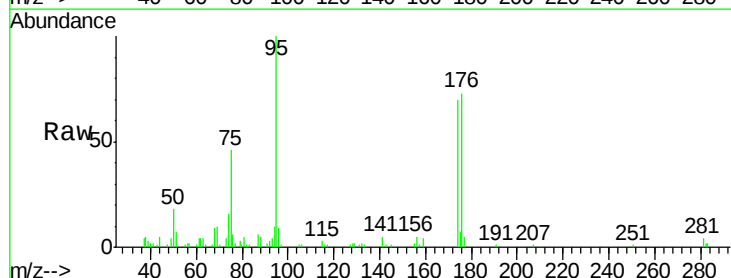
Instrument :
 MSVOA_Y
 ClientSampleId :
 BU-RO-258

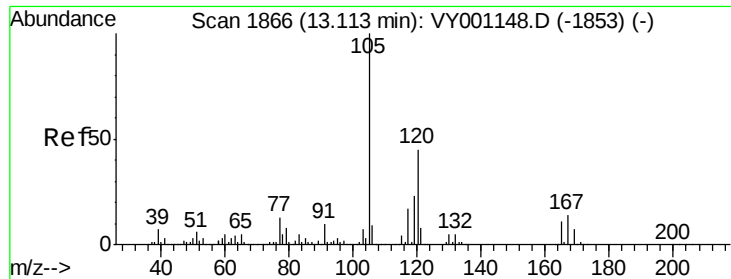
Tgt Ion: 75 Resp: 5320
 Ion Ratio Lower Upper
 75 100
 77 3.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 85.194 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY001187.D
 Acq: 13 Jan 2020 18:00

Tgt Ion: 75 Resp: 5320
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.4 104.2#
 89 0.0 0.0 0.0

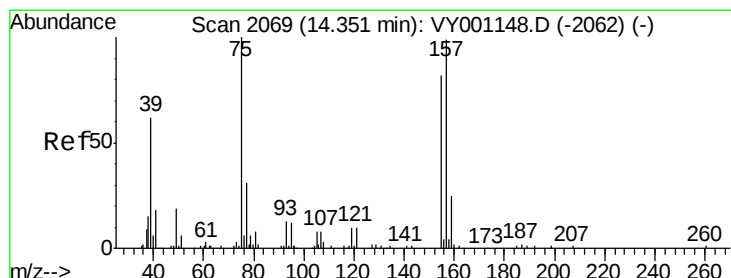
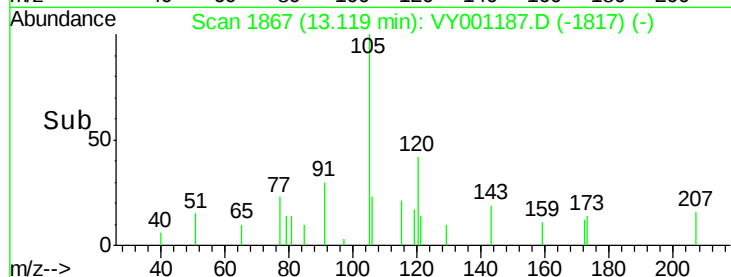
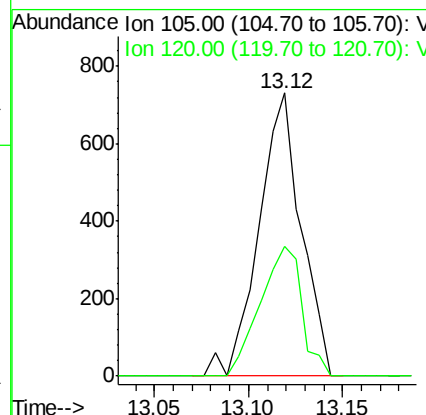
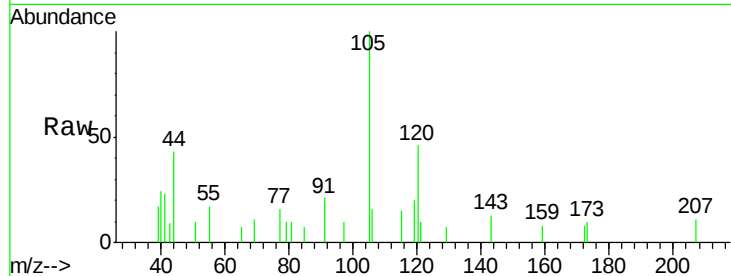




#84
 1,2,4-Trimethylbenzene
 Concen: 1.844 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. 0.01 min
 Lab File: VY001187.D
 Acq: 13 Jan 2020 18:00

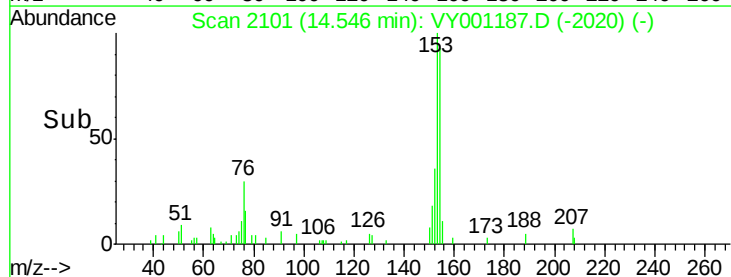
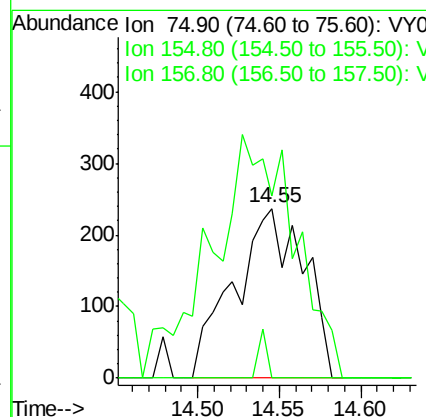
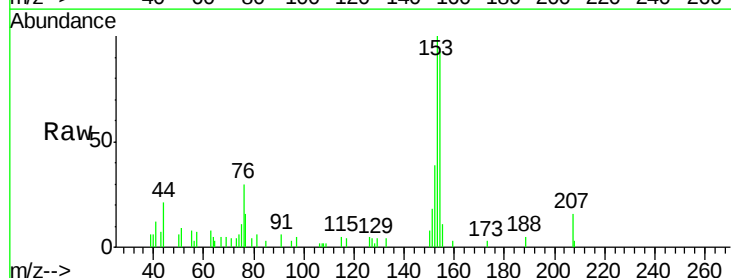
Instrument :
 MSVOA_Y
 ClientSampleId :
 BU-RO-258

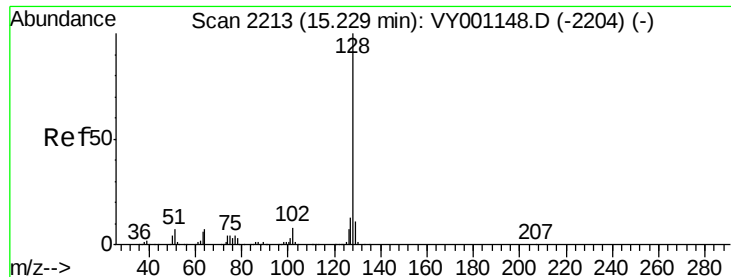
Tgt Ion: 105 Resp: 1136
 Ion Ratio Lower Upper
 105 100
 120 45.1 22.8 68.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 25.121 ug/l
 RT: 14.55 min Scan# 2101
 Delta R.T. 0.19 min
 Lab File: VY001187.D
 Acq: 13 Jan 2020 18:00

Tgt Ion: 75 Resp: 709
 Ion Ratio Lower Upper
 75 100
 155 170.2 41.2 123.6#
 157 3.5 52.8 158.4#

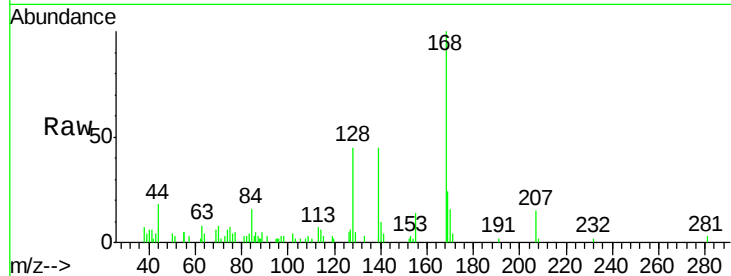




#95
Naphthalene
Concen: 5.124 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.01 min
Lab File: VY001187.D
Acq: 13 Jan 2020 18:00

Instrument :
MSVOA_Y
ClientSampleId :
BU-RO-258

Tgt Ion:128 Resp: 2270
Ion Ratio Lower Upper
128 100
127 17.1 10.2 15.4#
129 19.1 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

