

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092019\
 Data File : VY000123.D
 Acq On : 20 Sep 2019 21:07
 Operator : SY/MD
 Sample : K4938-08
 Misc : 5.07g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 20 23:51:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 05:38:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	82491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	175154	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	154574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	59382	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	53114	55.96	ug/l	0.00
Spiked Amount			Recovery	=	111.92%	
35) Dibromofluoromethane	7.72	113	50603	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
50) Toluene-d8	10.18	98	212330	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.48	95	69124	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	

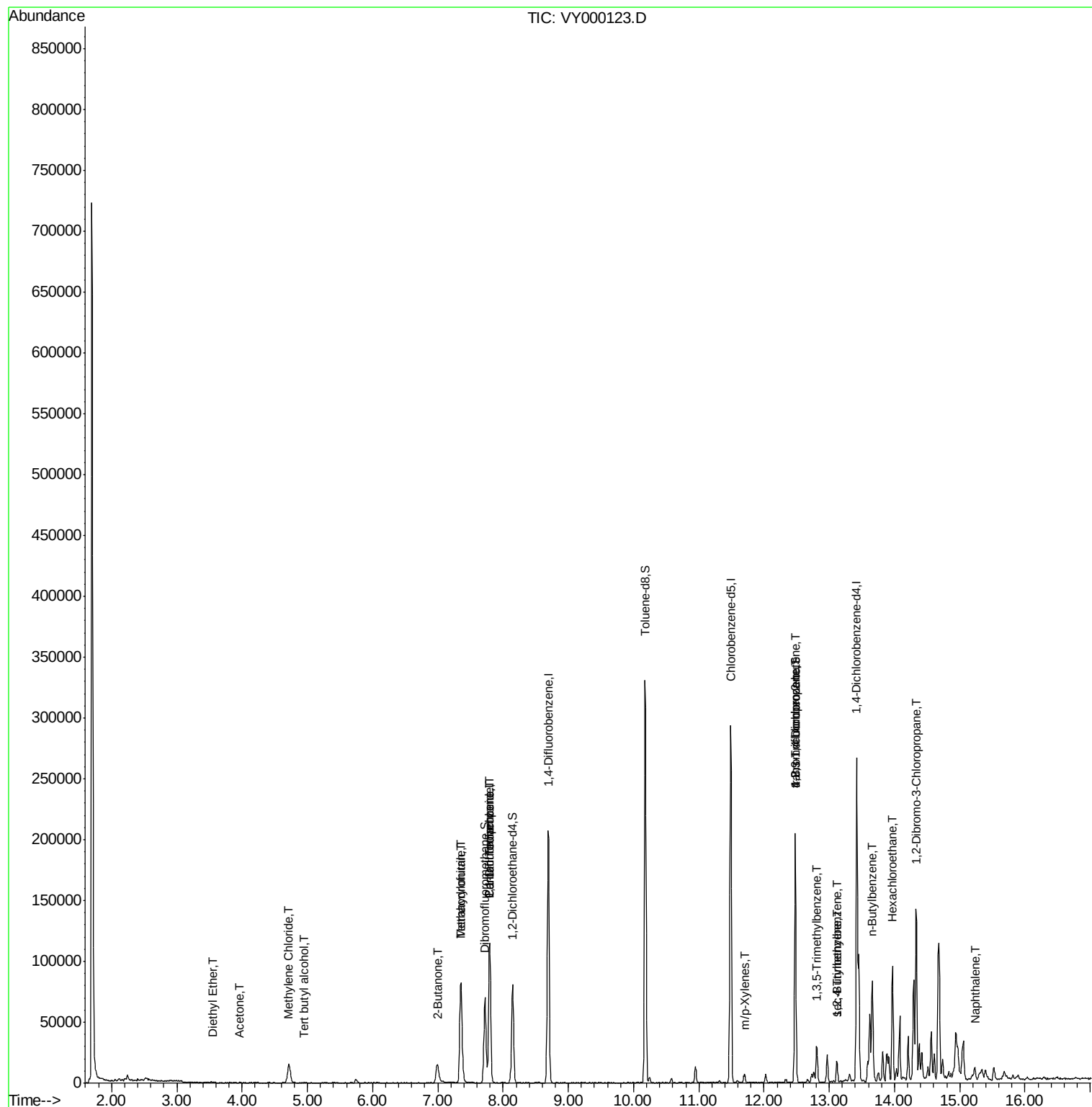
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.76	85	43	Below Cal	#	42
3) Chloromethane	2.11	50	1159	Below Cal	#	84
5) Bromomethane	2.66	94	92	Below Cal	#	80
8) Diethyl Ether	3.54	74	546	1.002	ug/l	79
11) Tert butyl alcohol	4.95	59	284	2.524	ug/l #	73
13) Acrolein	3.53	56	19	Below Cal	#	4
16) Acetone	3.96	43	562	2.543	ug/l #	80
20) Methylene Chloride	4.72	84	11711	11.266	ug/l #	89
25) 2-Butanone	6.99	43	812	2.029	ug/l #	44
29) Tetrahydrofuran	7.35	42	64363	267.873	ug/l	96
31) Cyclohexane	7.79	56	2310	Below Cal	#	1
36) 1,1-Dichloropropene	7.79	75	8064	6.157	ug/l #	44
38) Carbon Tetrachloride	7.79	117	9080	7.346	ug/l #	15
41) Methacrylonitrile	7.35	41	33553	53.808	ug/l #	40
68) m/p-Xylenes	11.70	106	2260	1.088	ug/l	89
76) 1,2,3-Trichloropropane	12.48	75	36455	43.633	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.80	105	15594	3.934	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.48	75	36455	83.916	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.12	105	8675	2.220	ug/l	88
85) sec-Butylbenzene	13.12	105	8675	1.731	ug/l #	57
89) n-Butylbenzene	13.66	91	8728	1.997	ug/l #	1
90) Hexachloroethane	13.97	117	3936	4.716	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	14.33	75	739	3.684	ug/l #	2
95) Naphthalene	15.22	128	7204	2.258	ug/l #	97

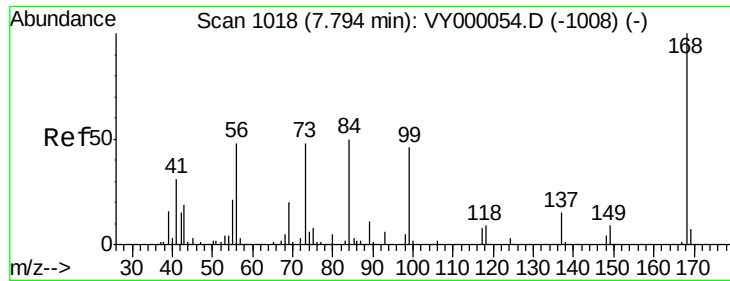
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 05:38:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

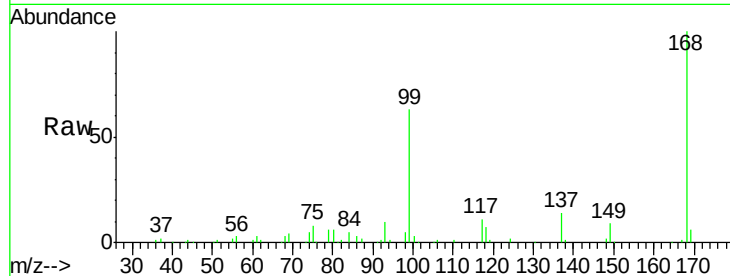
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 82491

Ion Ratio Lower Upper

168 100

99 62.6 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)

Ion 98.90 (98.60 to 99.60): VY000054.D (-1008) (-)

7.79

40000

30000

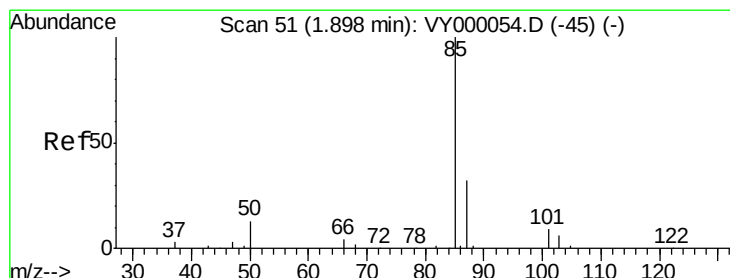
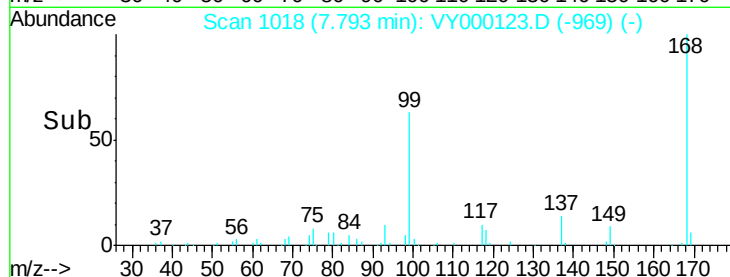
20000

10000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.76 min Scan# 29

Delta R.T. -0.13 min

Lab File: VY000123.D

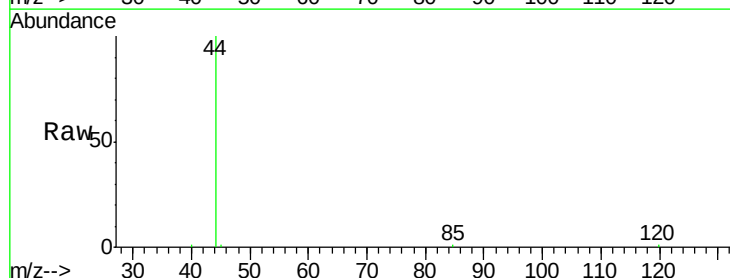
Acq: 20 Sep 2019 21:07

Tgt Ion: 85 Resp: 43

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VY000054.D (-45) (-)

Ion 86.90 (86.60 to 87.60): VY000054.D (-45) (-)

1.76

60

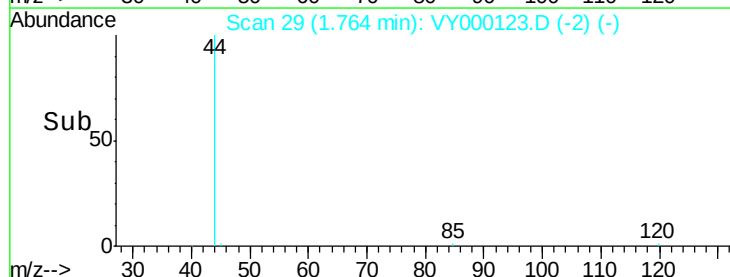
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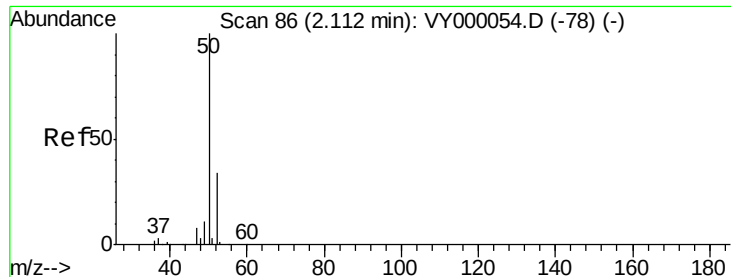
20

0

1.74 1.76 1.78

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 86

Delta R.T. 0.00 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

Instrument :

MSVOA_Y

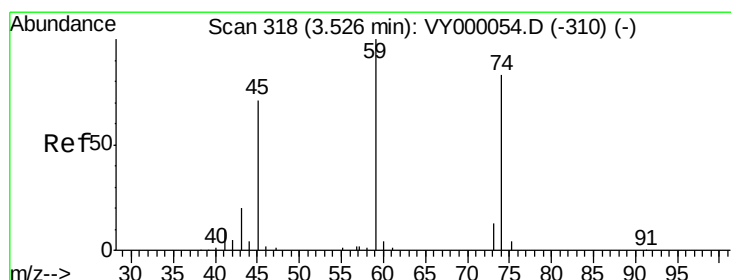
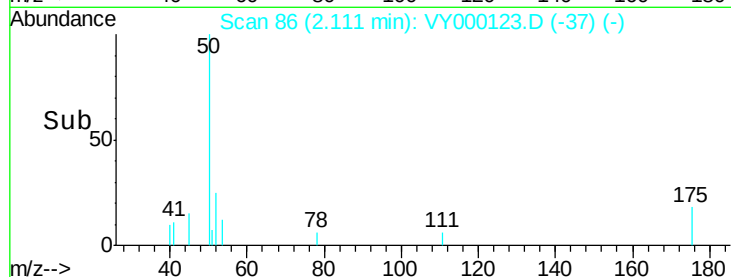
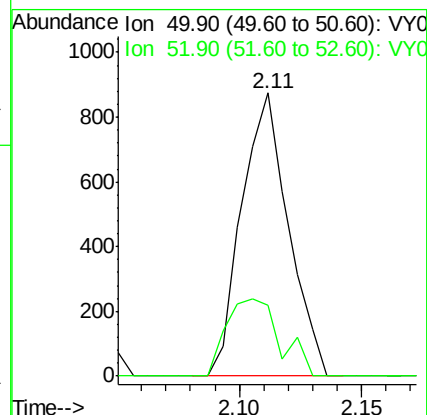
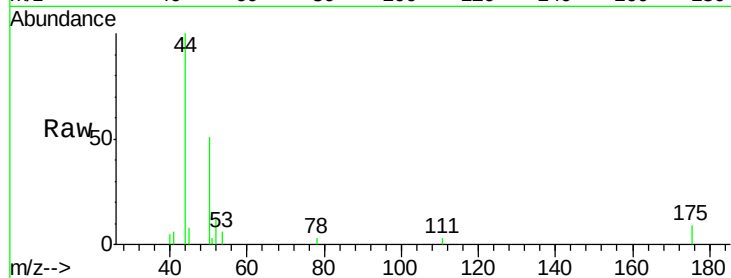
ClientSampleId :

Tot Ion: 50 Resp: 1159

Ion Ratio Lower Upper

50 100

52 25.2 27.3 40.9#



#8

Diethyl Ether

Concen: 1.002 ug/l

RT: 3.54 min Scan# 320

Delta R.T. 0.01 min

Lab File: VY000123.D

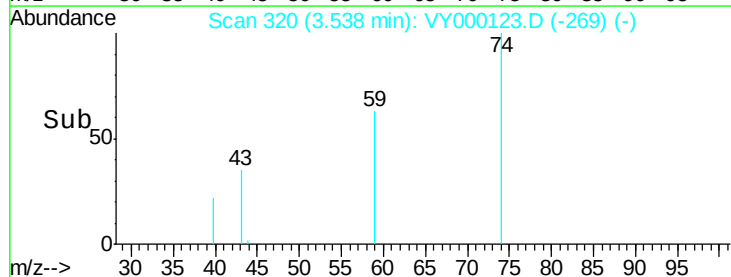
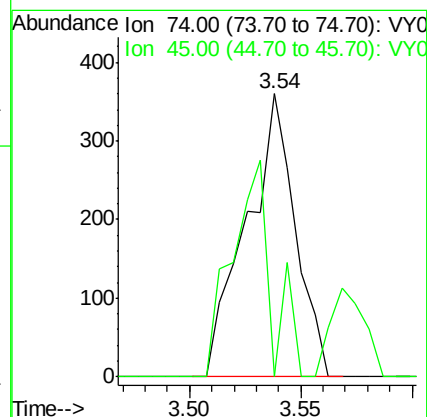
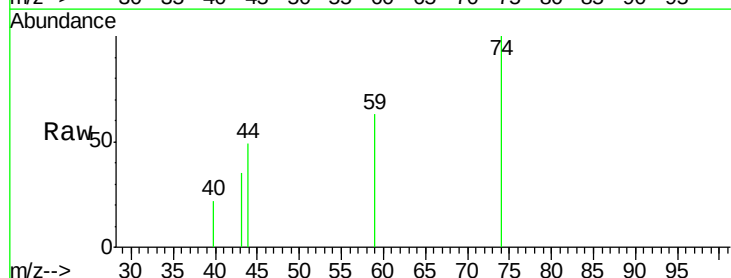
Acq: 20 Sep 2019 21:07

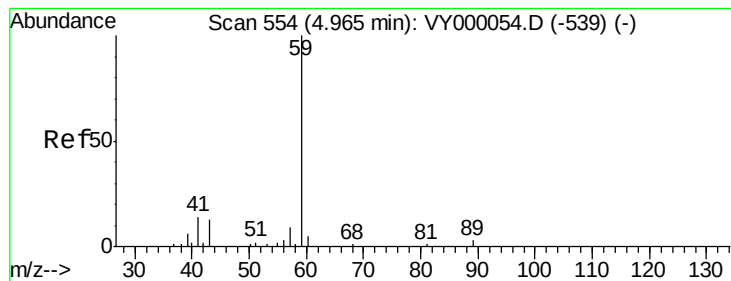
Tgt Ion: 74 Resp: 546

Ion Ratio Lower Upper

74 100

45 62.3 40.6 122.0



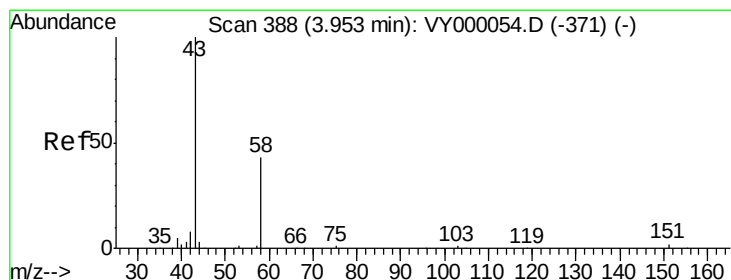
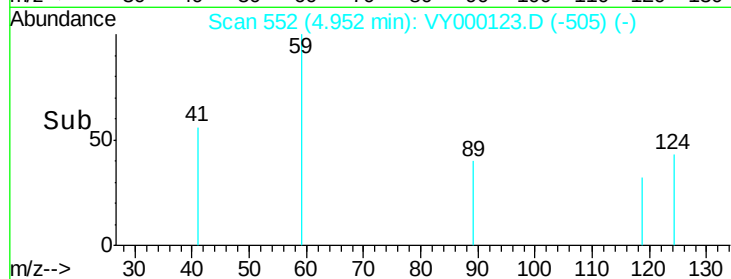
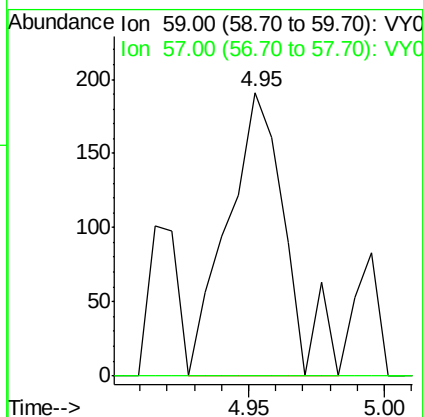
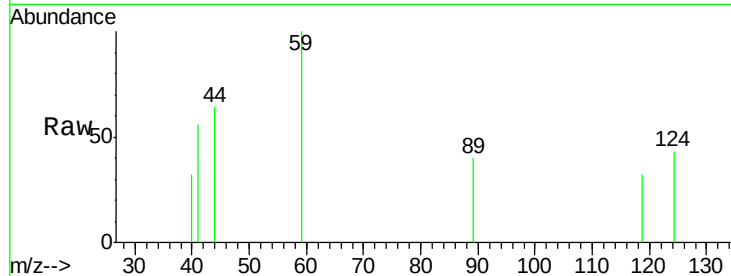


#11

Tert butyl alcohol
 Concen: 2.524 ug/l
 RT: 4.95 min Scan# 552
 Delta R.T. -0.01 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

Instrument :
 MSVOA_Y
 ClientSampled :

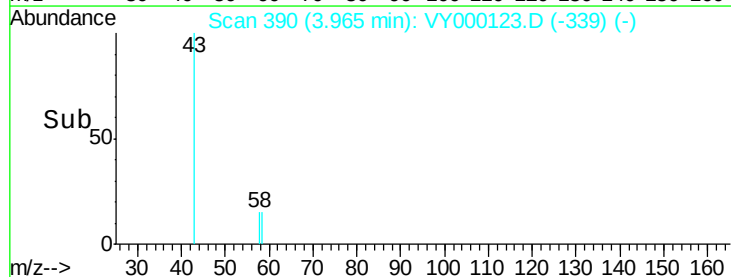
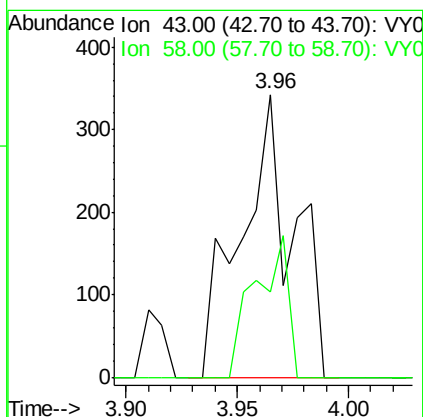
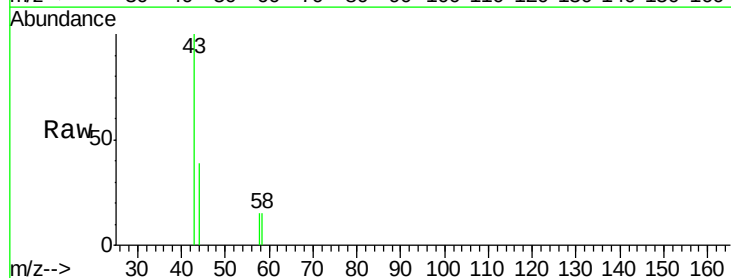
Tot Ion: 59 Resp: 284
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

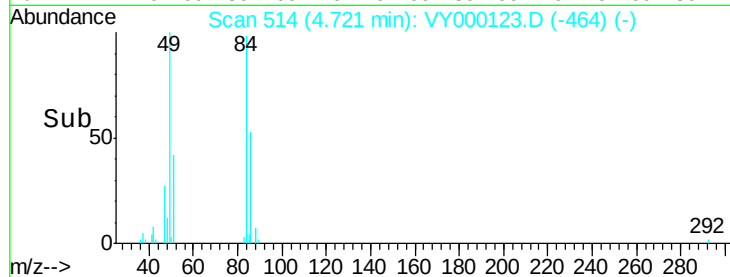
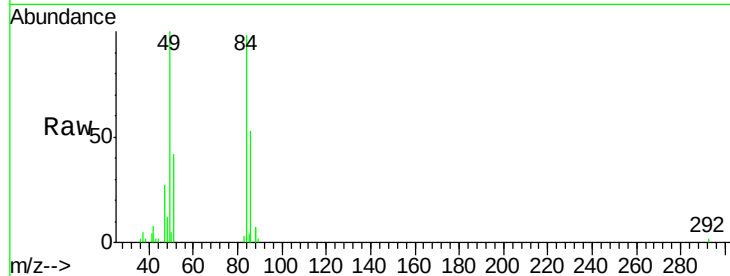
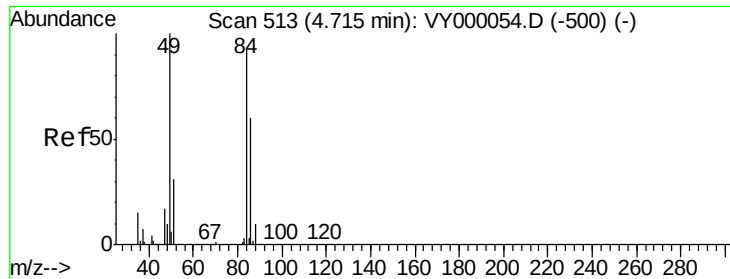


#16

Acetone
 Concen: 2.543 ug/l
 RT: 3.96 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

Tgt Ion: 43 Resp: 562
 Ion Ratio Lower Upper
 43 100
 58 30.3 34.5 51.7#

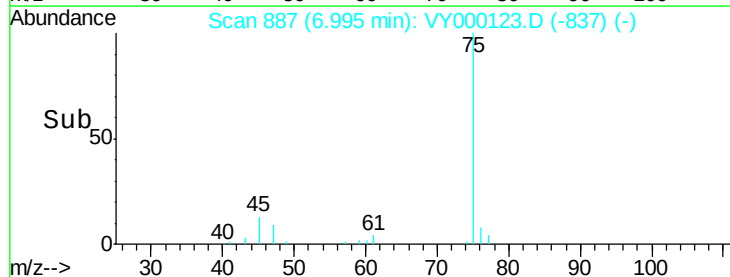
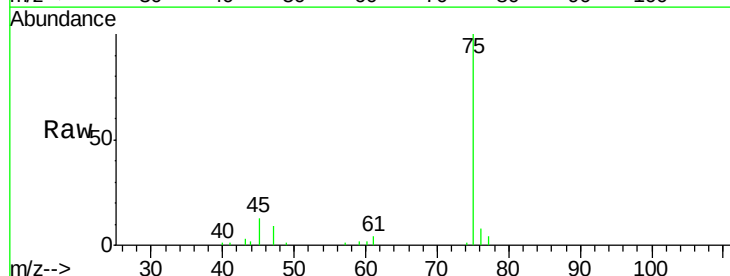
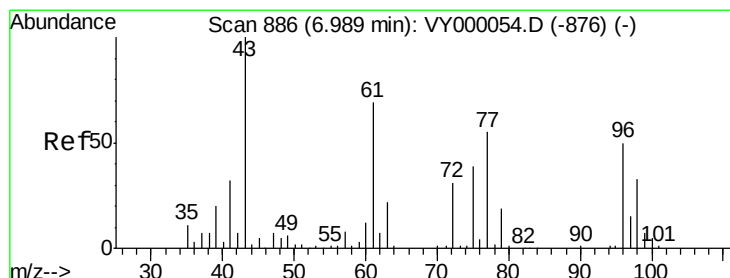
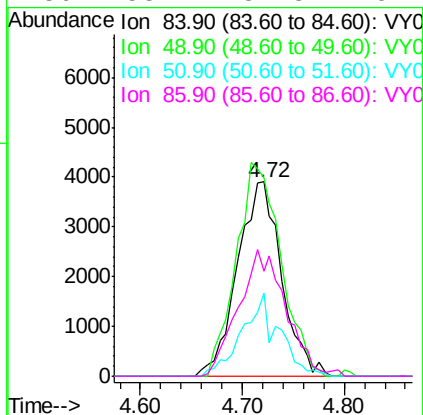




#20
Methylene Chloride
Concen: 11.266 ug/l
RT: 4.72 min Scan# 514
Delta R.T. 0.01 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

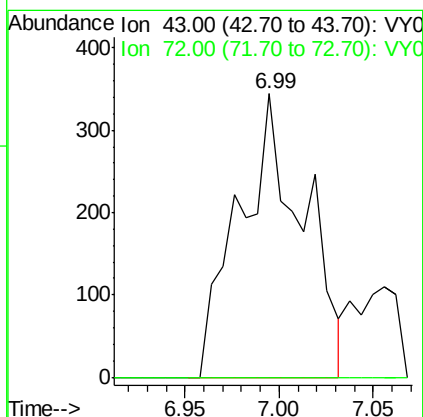
Instrument :
MSVOA_Y
ClientSampled :

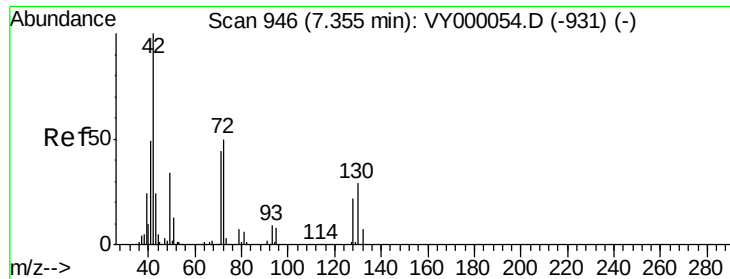
Tot Ion: 84 Resp: 11711
Ion Ratio Lower Upper
84 100
49 102.1 87.4 131.0
51 43.0 27.2 40.8#
86 53.7 52.8 79.2



#25
2-Butanone
Concen: 2.029 ug/l
RT: 6.99 min Scan# 887
Delta R.T. 0.01 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

Tgt Ion: 43 Resp: 812
Ion Ratio Lower Upper
43 100
72 0.0 24.7 37.1#

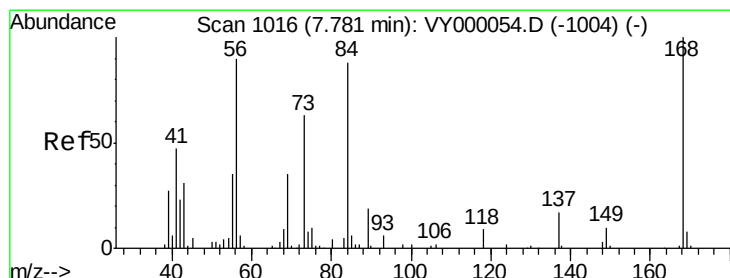
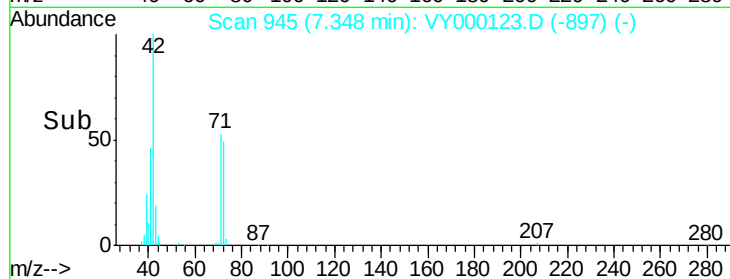
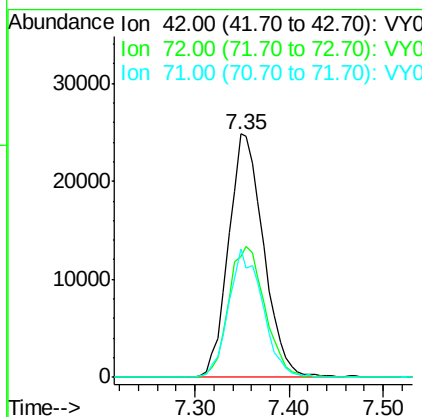
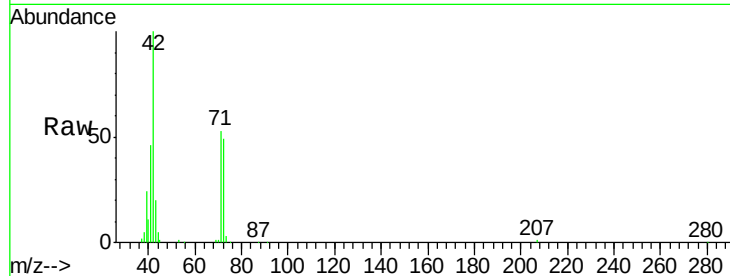




#29
Tetrahydrofuran
Concen: 267.873 ug/l
RT: 7.35 min Scan# 945
Delta R.T. -0.01 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

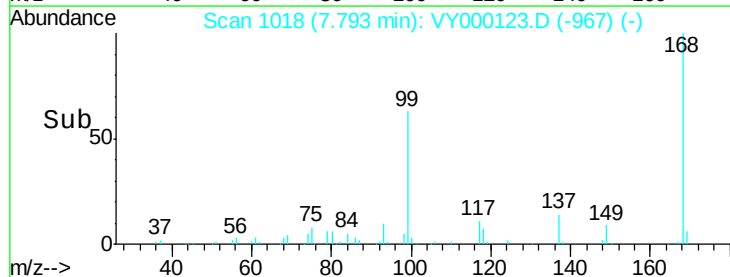
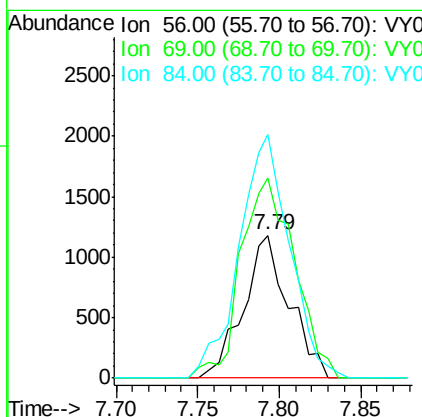
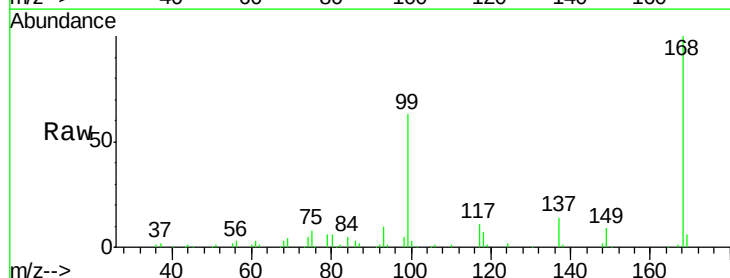
Instrument :
MSVOA_Y
ClientSampleId :

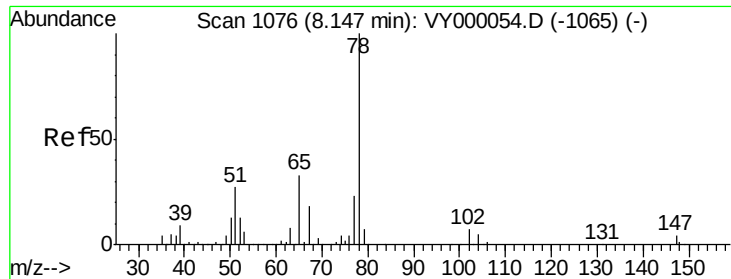
Tot Ion: 42 Resp: 64363
Ion Ratio Lower Upper
42 100
72 55.8 41.8 62.6
71 50.9 38.6 58.0



#31
Cyclohexane
Concen: Below Cal
RT: 7.79 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

Tgt Ion: 56 Resp: 2310
Ion Ratio Lower Upper
56 100
69 139.7 30.9 46.3#
84 170.2 78.5 117.7#

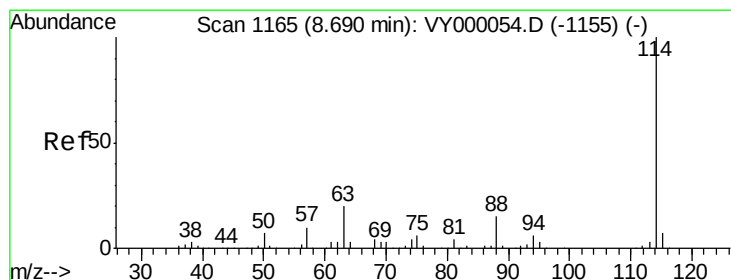
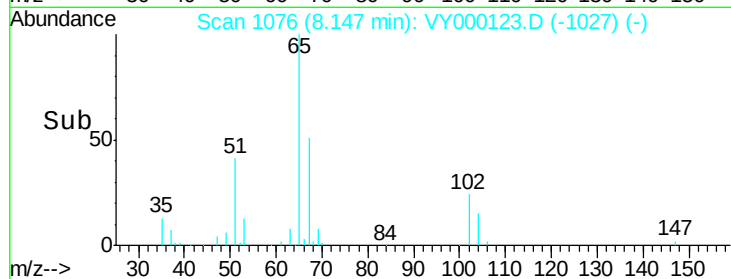
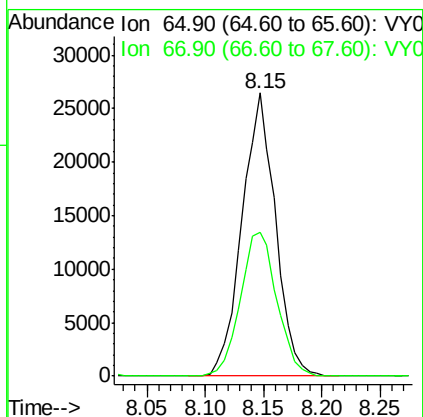
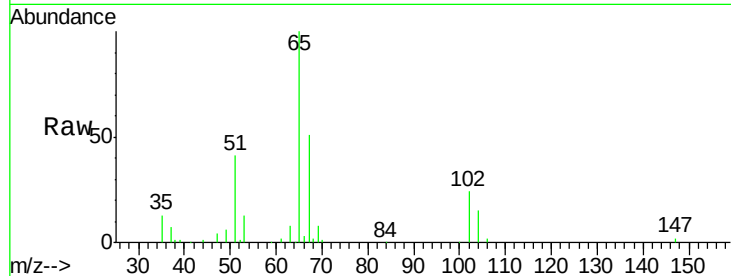




#33
 1,2-Dichloroethane-d4
 Concen: 55.964 ug/l
 RT: 8.15 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

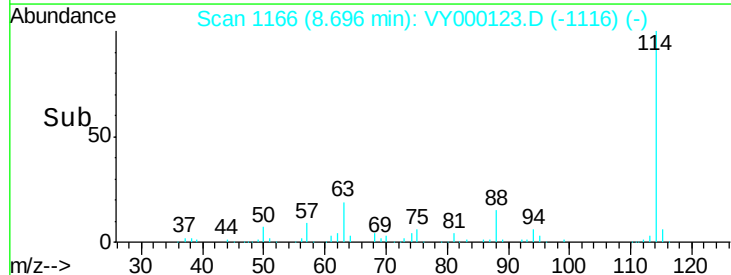
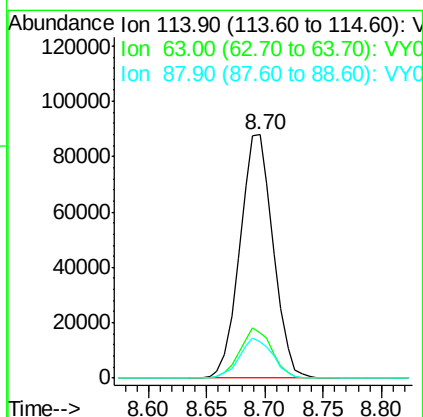
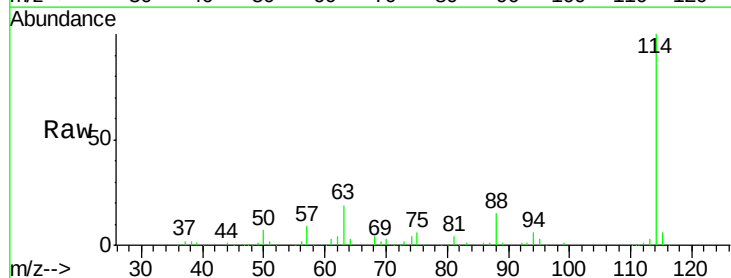
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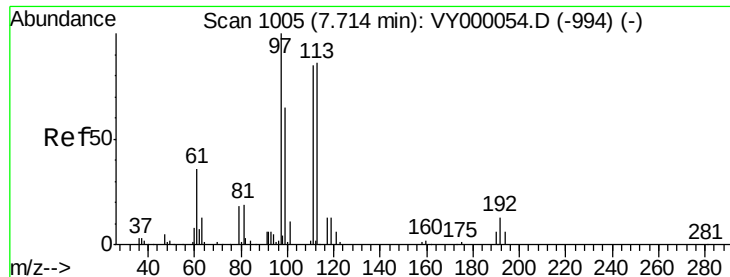
Tot Ion: 65 Resp: 53114
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1166
 Delta R.T. 0.01 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

Tgt Ion: 114 Resp: 175154
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.4
 88 15.1 0.0 30.2

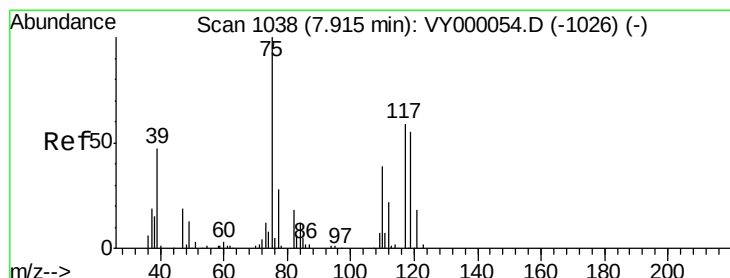
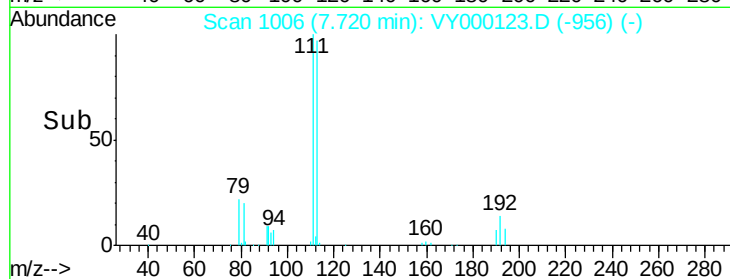
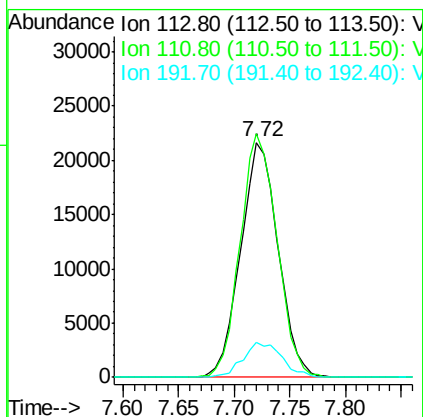
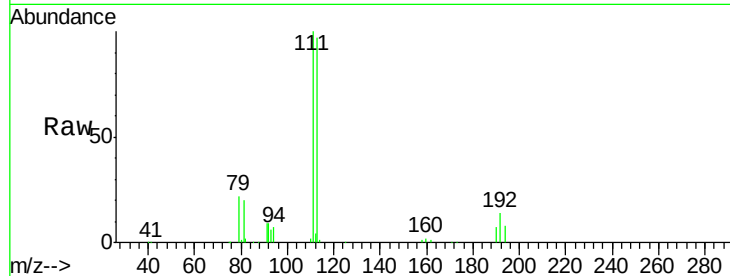




#35
 Dibromofluoromethane
 Concen: 47.716 ug/l
 RT: 7.72 min Scan# 1006
 Delta R.T. 0.01 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

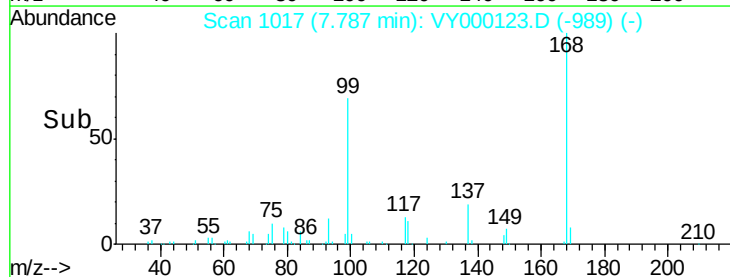
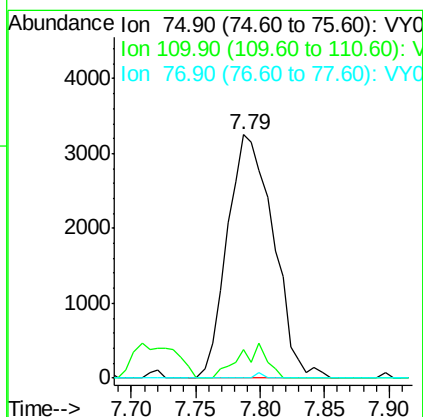
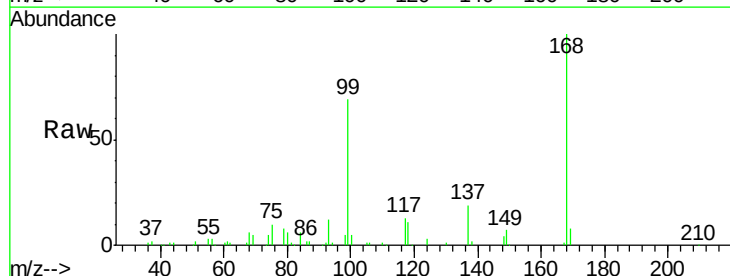
Instrument :
 MSVOA_Y
 ClientSampleId :

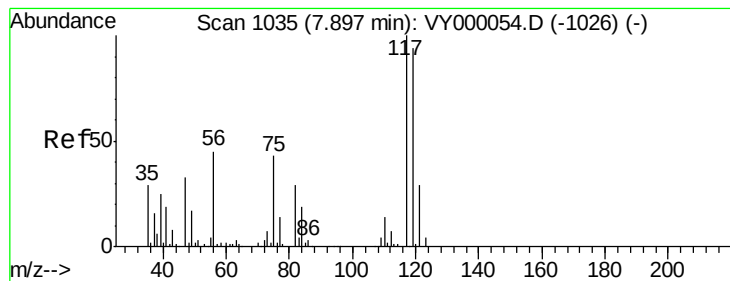
Tot Ion:113 Resp: 50603
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.7 122.5
 192 15.5 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 6.157 ug/l
 RT: 7.79 min Scan# 1017
 Delta R.T. -0.13 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

Tgt Ion: 75 Resp: 8064
 Ion Ratio Lower Upper
 75 100
 110 4.9 19.6 58.7#
 77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 7.346 ug/l

RT: 7.79 min Scan# 1017

Delta R.T. -0.11 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

Instrument :
MSVOA_Y
ClientSampleId :

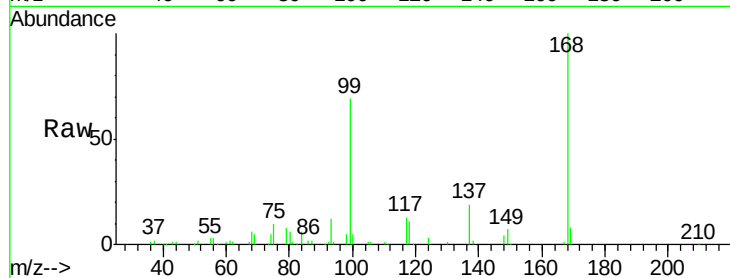
Tot Ion:117 Resp: 9080

Ion Ratio Lower Upper

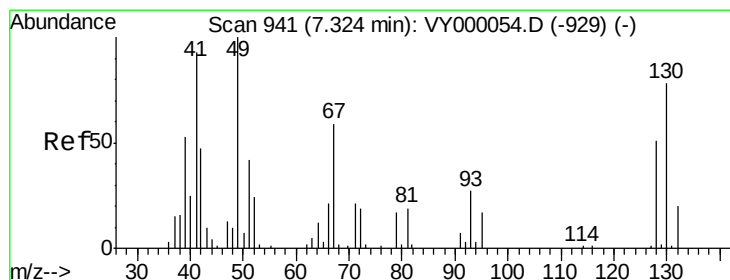
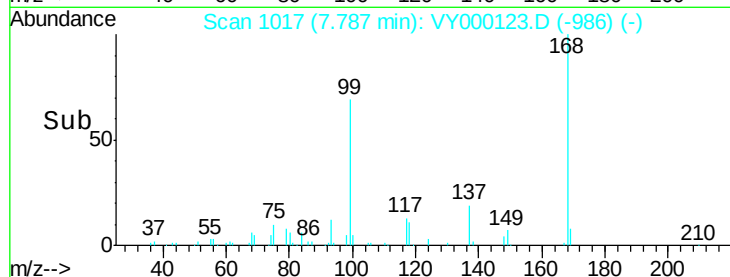
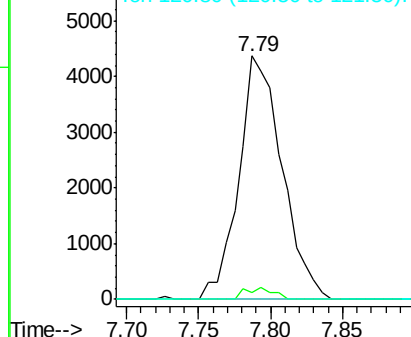
117 100

119 2.8 75.0 112.6#

121 0.0 22.8 34.2#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 53.808 ug/l

RT: 7.35 min Scan# 946

Delta R.T. 0.03 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

Tgt Ion: 41 Resp: 33553

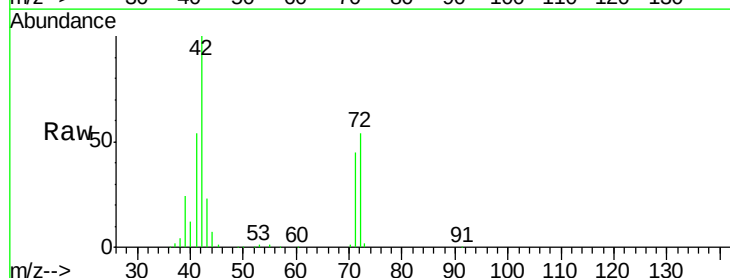
Ion Ratio Lower Upper

41 100

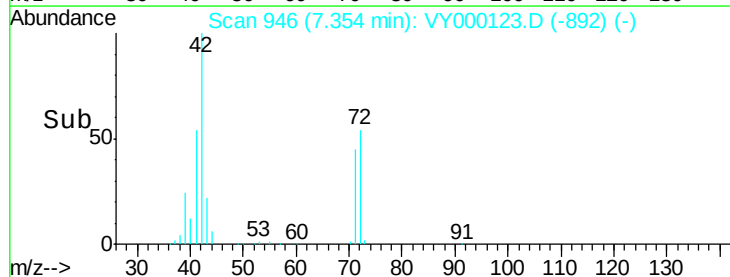
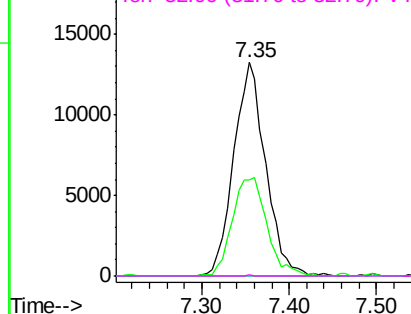
39 49.9 91.8 137.6#

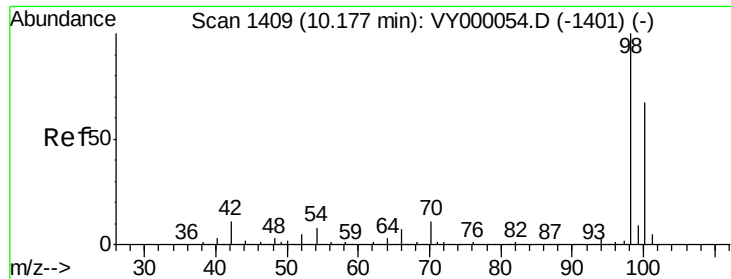
67 0.0 0.0 0.0

52 0.1 0.0 0.0#



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0





#50

Toluene-d8

Concen: 50.975 ug/l

RT: 10.18 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

Instrument :

MSVOA_Y

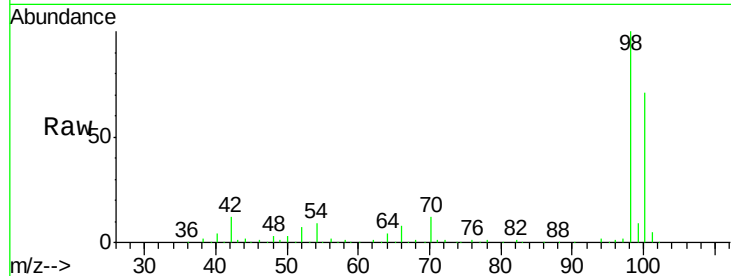
ClientSampled :

Tot Ion: 98 Resp: 212330

Ion Ratio Lower Upper

98 100

100 67.6 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY000054.D (-1401) (-)

Ion 100.00 (99.70 to 100.70): VY000054.D (-1401) (-)

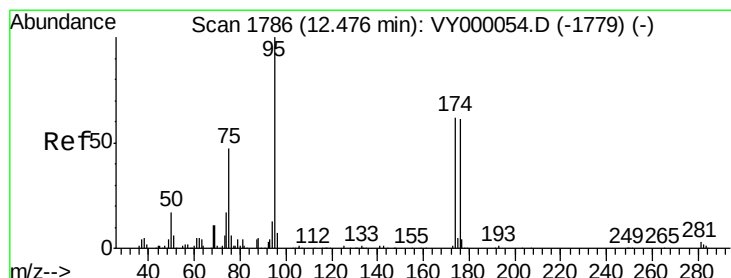
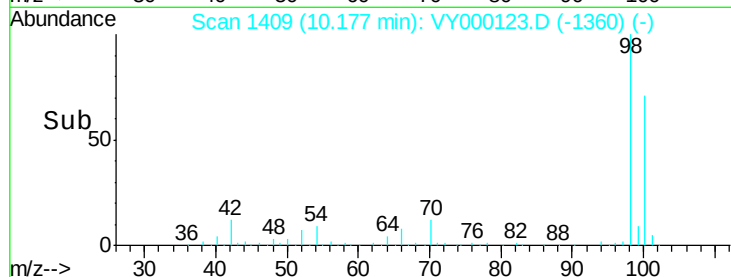
10.18

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.697 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.00 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

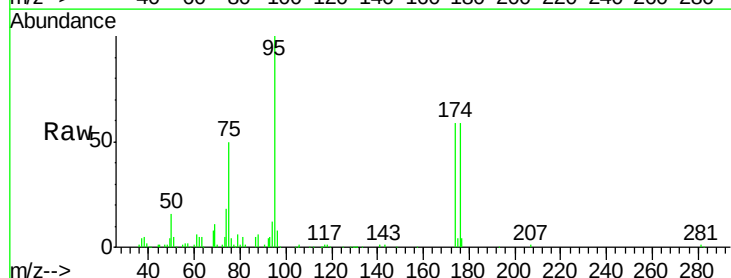
Tgt Ion: 95 Resp: 69124

Ion Ratio Lower Upper

95 100

174 63.6 0.0 137.2

176 63.6 0.0 135.0



Abundance Ion 94.90 (94.60 to 95.60): VY000054.D (-1779) (-)

Ion 173.80 (173.50 to 174.50): VY000054.D (-1779) (-)

Ion 175.80 (175.50 to 176.50): VY000054.D (-1779) (-)

12.48

60000

50000

40000

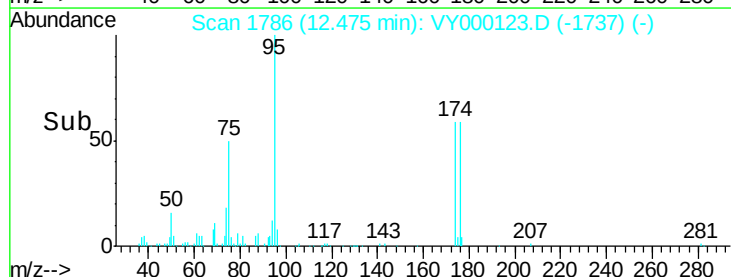
30000

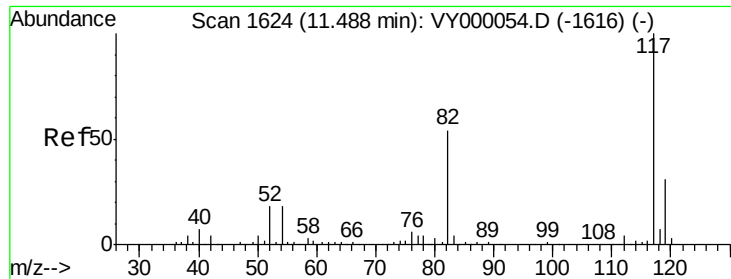
20000

10000

0

Time-->

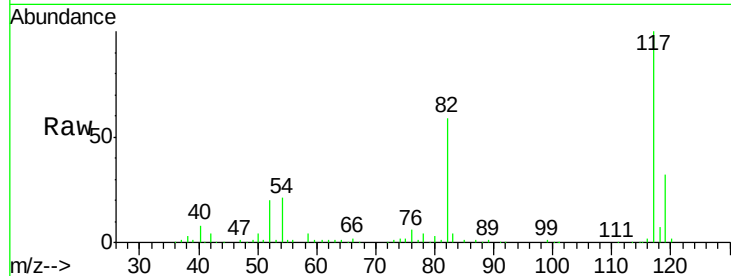




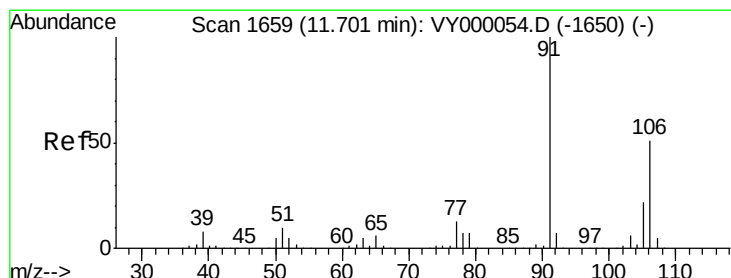
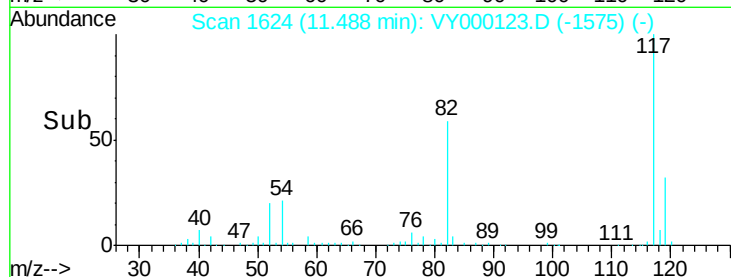
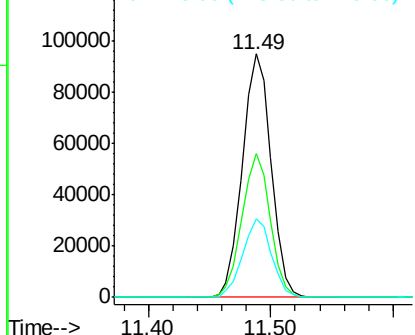
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 154574
Ion Ratio Lower Upper
117 100
82 59.3 43.5 65.3
119 32.3 24.6 36.8

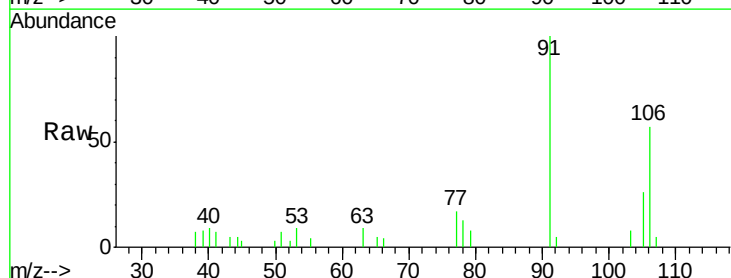


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

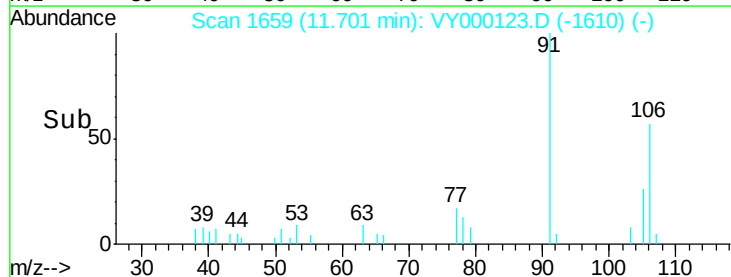
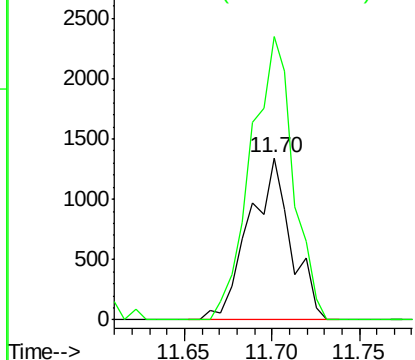


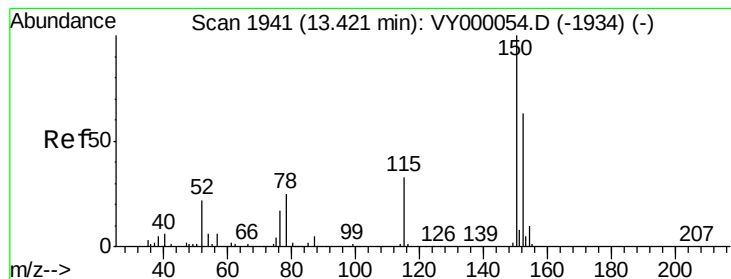
#68
m/p-Xylenes
Concen: 1.088 ug/l
RT: 11.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

Tgt Ion:106 Resp: 2260
Ion Ratio Lower Upper
106 100
91 176.5 154.5 231.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

Instrument :

MSVOA_Y

ClientSampleId :

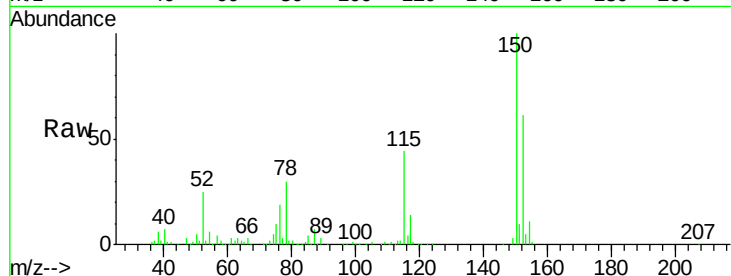
Tot Ion:152 Resp: 59382

Ion Ratio Lower Upper

152 100

115 69.6 30.7 92.1

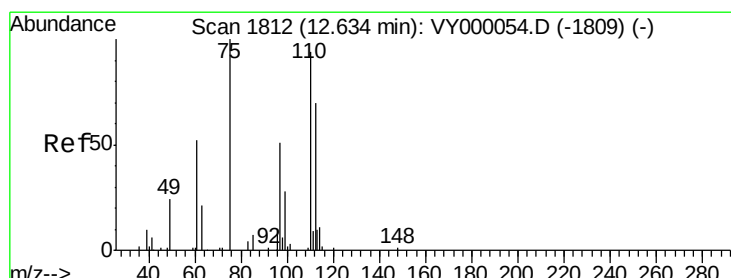
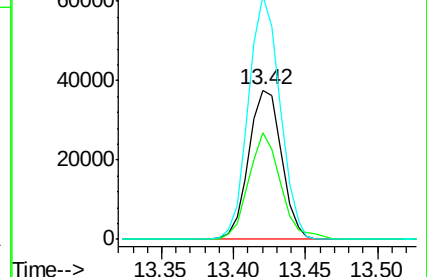
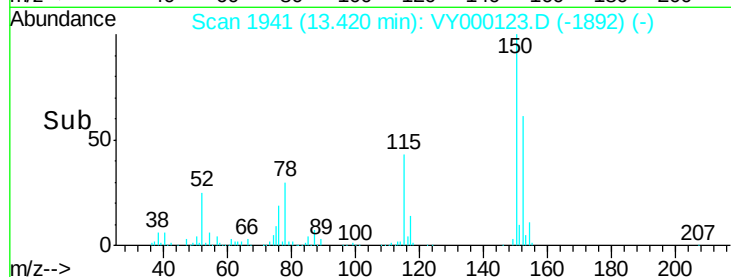
150 156.8 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 43.633 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.16 min

Lab File: VY000123.D

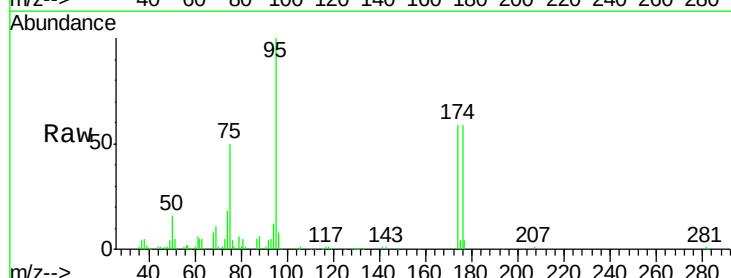
Acq: 20 Sep 2019 21:07

Tgt Ion: 75 Resp: 36455

Ion Ratio Lower Upper

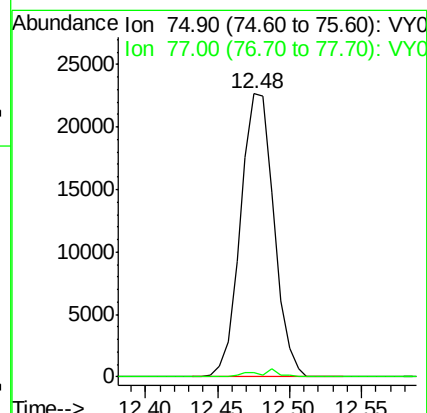
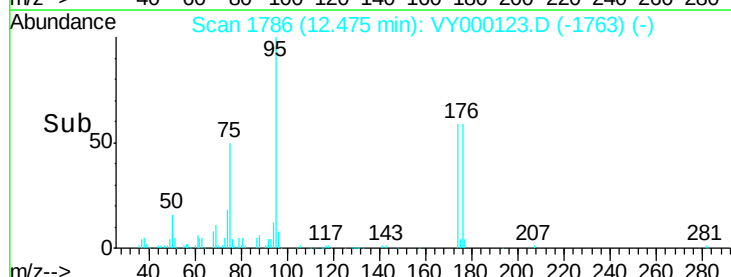
75 100

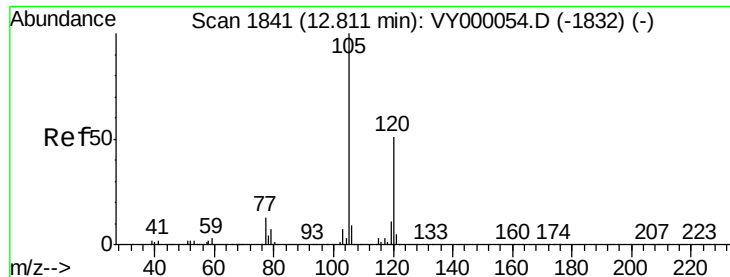
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#80

1,3,5-Trimethylbenzene

Concen: 3.934 ug/l

RT: 12.80 min Scan# 1840

Delta R.T. -0.01 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

Instrument :

MSVOA_Y

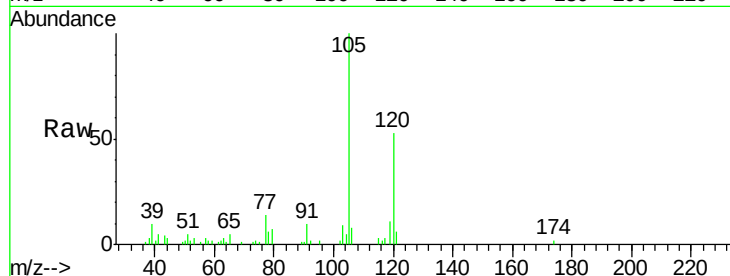
ClientSampleId :

Tot Ion:105 Resp: 15594

Ion Ratio Lower Upper

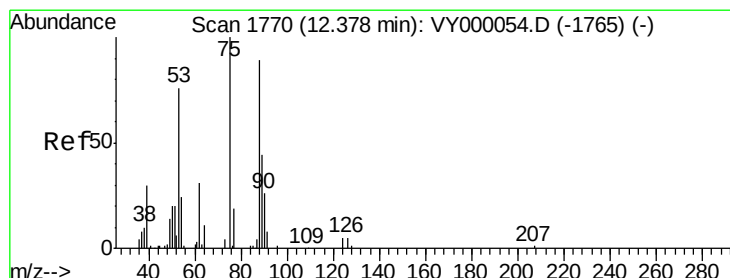
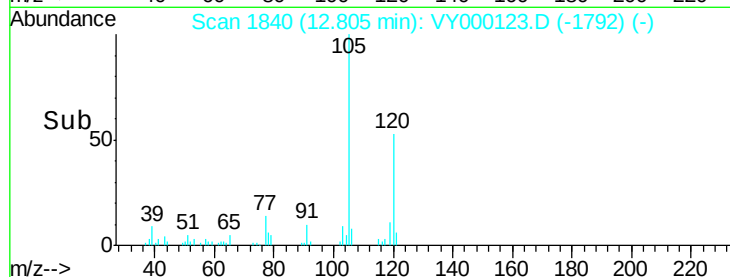
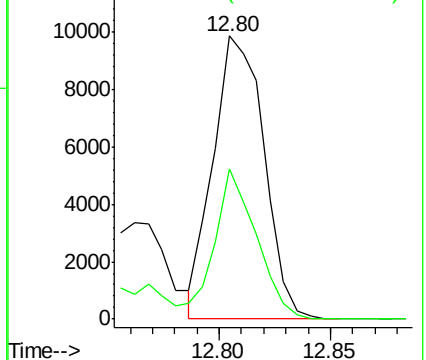
105 100

120 44.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 83.916 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. 0.10 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

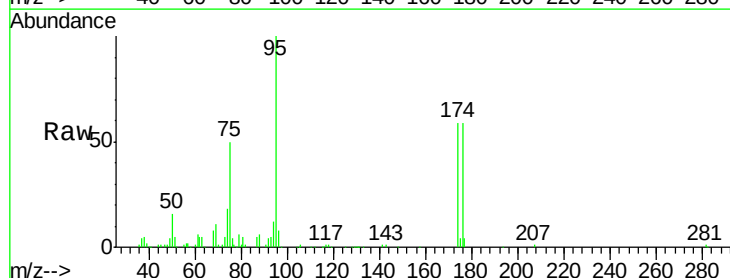
Tgt Ion: 75 Resp: 36455

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

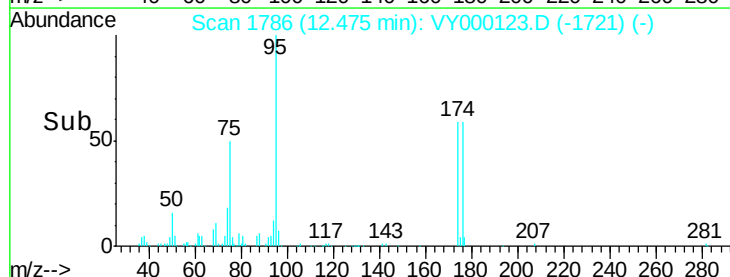
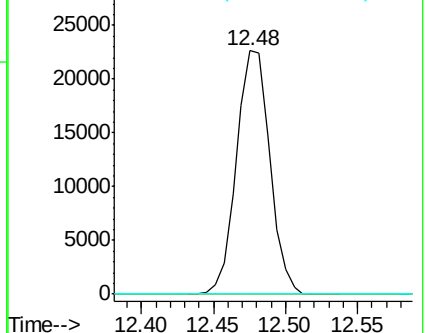
89 0.0 35.3 52.9#

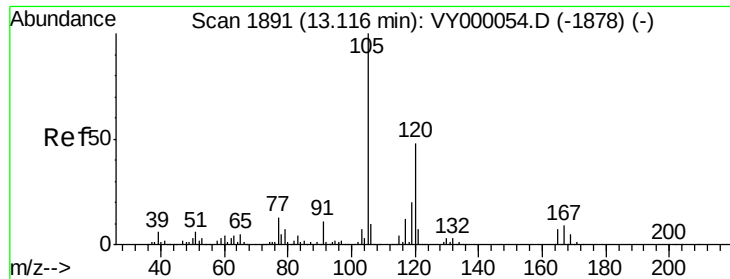


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

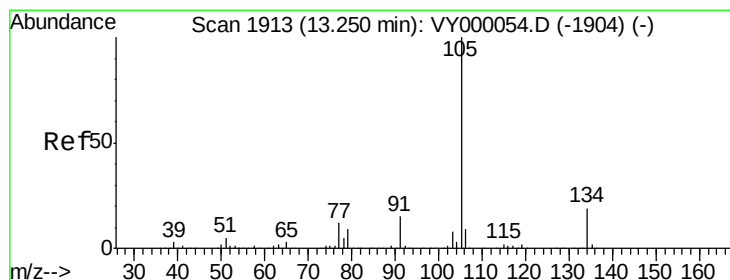
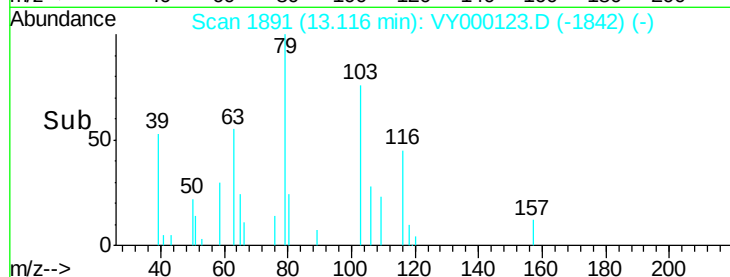
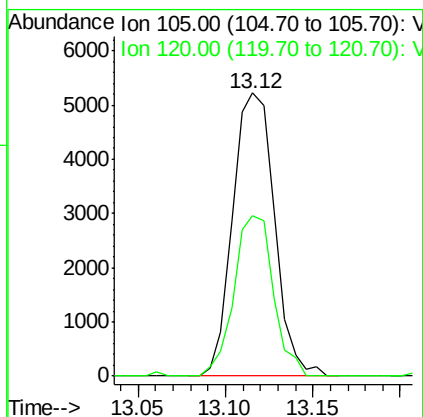
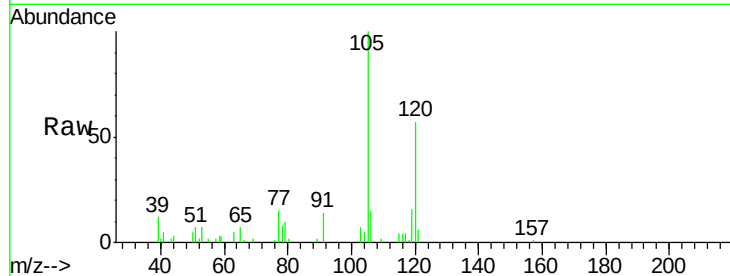




#84
 1,2,4-Trimethylbenzene
 Concen: 2.220 ug/l
 RT: 13.12 min Scan# 1891
 Delta R.T. -0.00 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

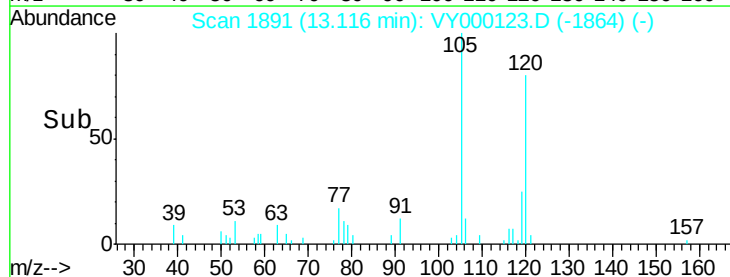
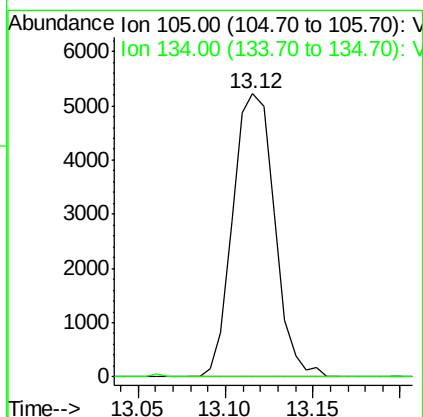
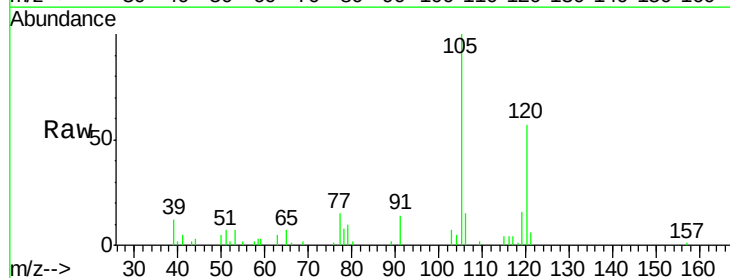
Instrument :
 MSVOA_Y
 ClientSampleId :

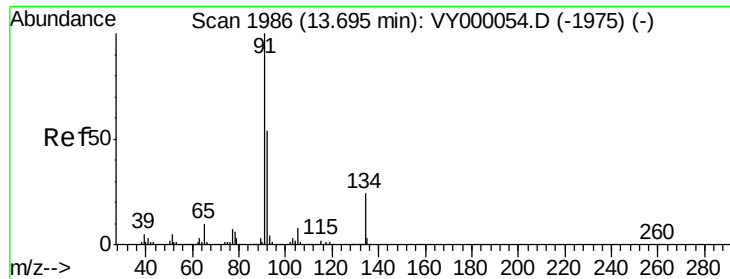
Tot Ion:105 Resp: 8675
 Ion Ratio Lower Upper
 105 100
 120 53.5 22.9 68.7



#85
 sec-Butylbenzene
 Concen: 1.731 ug/l
 RT: 13.12 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VY000123.D
 Acq: 20 Sep 2019 21:07

Tgt Ion:105 Resp: 8675
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#

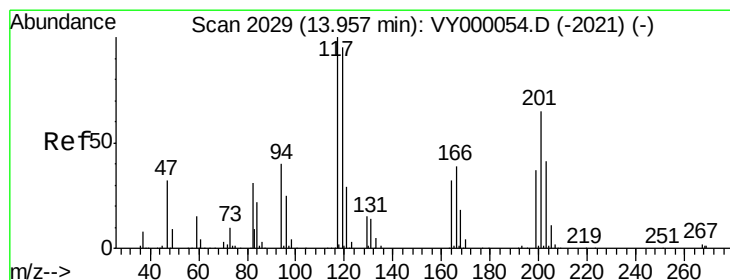
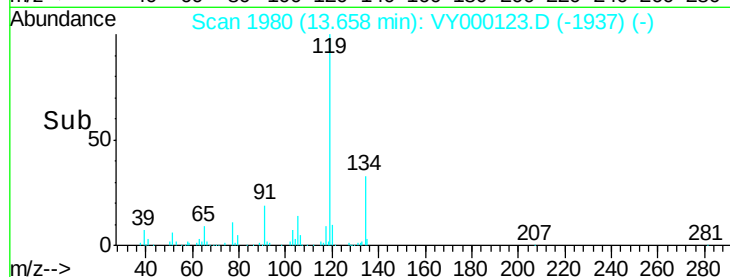
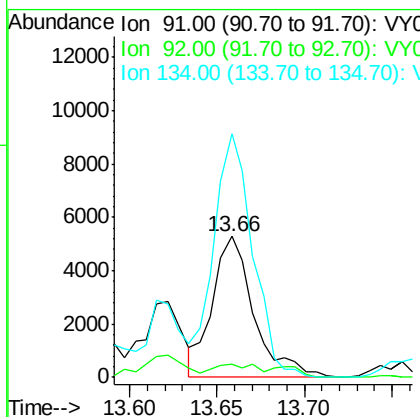
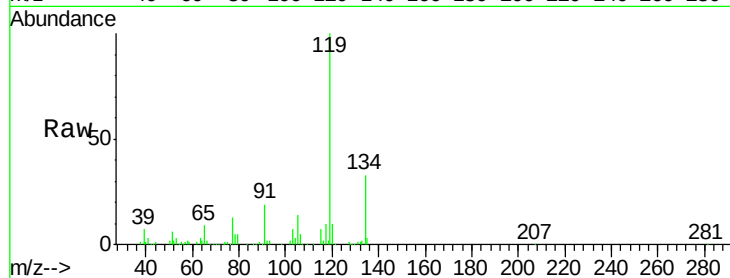




#89
n-Butylbenzene
Concen: 1.997 ug/l
RT: 13.66 min Scan# 1980
Delta R.T. -0.04 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

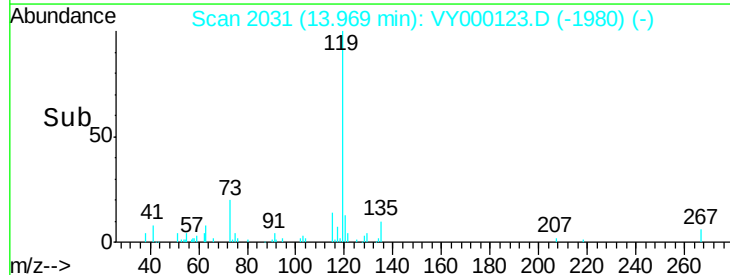
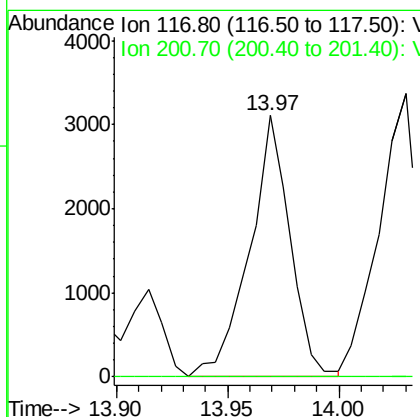
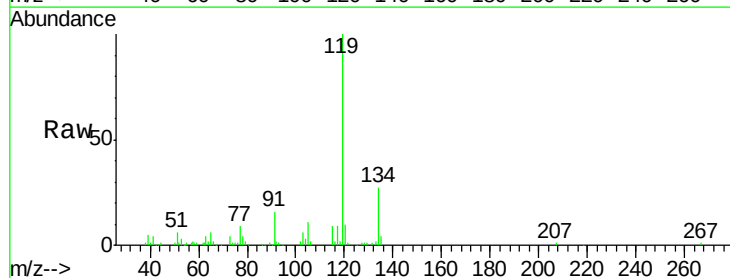
Instrument :
MSVOA_Y
ClientSampled :

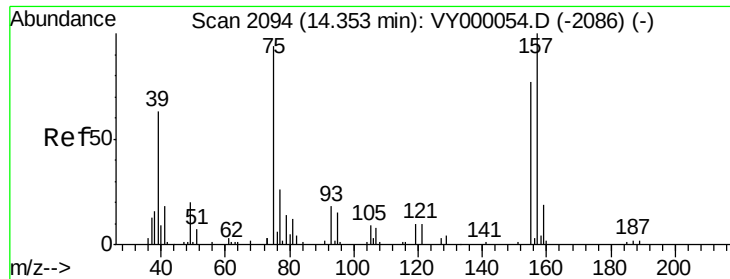
Tot Ion: 91 Resp: 8728
Ion Ratio Lower Upper
91 100
92 5.8 27.2 81.5#
134 162.9 12.2 36.6#



#90
Hexachloroethane
Concen: 4.716 ug/l
RT: 13.97 min Scan# 2031
Delta R.T. 0.01 min
Lab File: VY000123.D
Acq: 20 Sep 2019 21:07

Tgt Ion: 117 Resp: 3936
Ion Ratio Lower Upper
117 100
201 0.0 30.6 92.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.684 ug/l

RT: 14.33 min Scan# 2090

Delta R.T. -0.02 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

Instrument :

MSVOA_Y

ClientSampleId :

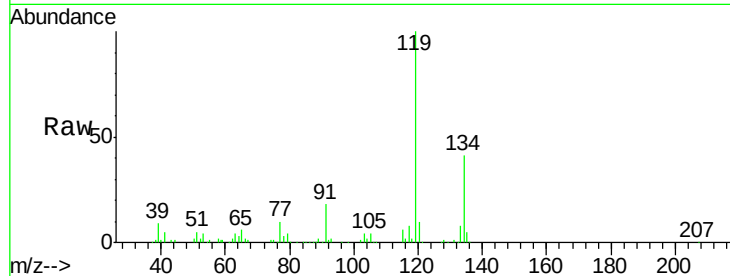
Tot Ion: 75 Resp: 739

Ion Ratio Lower Upper

75 100

155 0.0 40.6 121.7#

157 0.0 52.9 158.8#

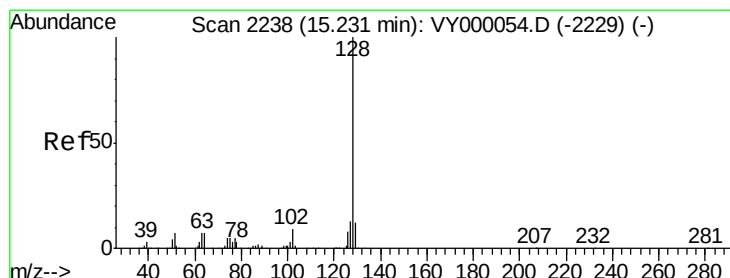
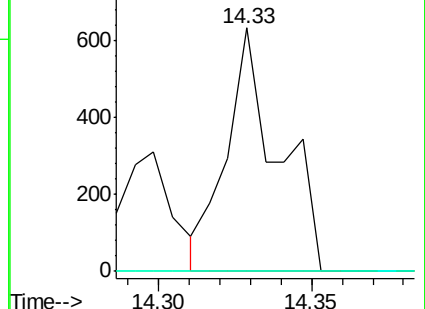
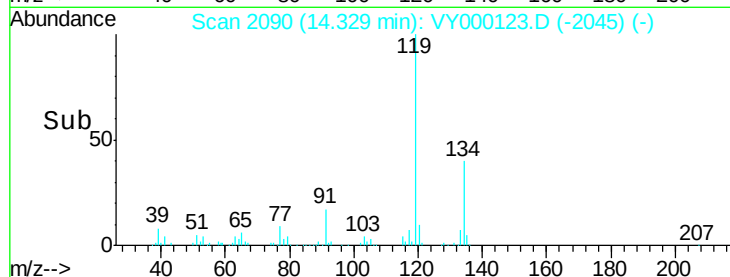


Abundance Ion 74.90 (74.60 to 75.60): VY000054.D (-2086) (-)

Ion 154.80 (154.50 to 155.50): VY000054.D (-2086) (-)

Ion 156.80 (156.50 to 157.50): VY000054.D (-2086) (-)

Time-->



#95

Naphthalene

Concen: 2.258 ug/l

RT: 15.22 min Scan# 2237

Delta R.T. -0.01 min

Lab File: VY000123.D

Acq: 20 Sep 2019 21:07

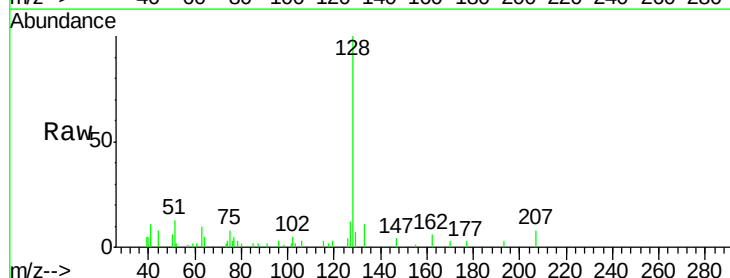
Tgt Ion: 128 Resp: 7204

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 8.8 9.2 13.8#



Abundance Ion 128.00 (127.70 to 128.70): VY000054.D (-2229) (-)

Ion 127.00 (126.70 to 127.70): VY000054.D (-2229) (-)

Ion 129.00 (128.70 to 129.70): VY000054.D (-2229) (-)

Time-->

