

Data File : VY000860.D
Acq On : 04 Dec 2019 13:56
Operator : SY/MD
Sample : K6119-10
Misc : 4.23G/5ML/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-2-(8-10)

Quant Time: Dec 05 07:54:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y112719S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 27 12:40:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	13238	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	26085	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	24678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	9714	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	10489	74.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	149.14%	
35) Dibromofluoromethane	7.73	113	6843	45.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.02%	
50) Toluene-d8	10.18	98	30970	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
62) 4-Bromofluorobenzene	12.48	95	10358	45.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.76%	

Target Compounds

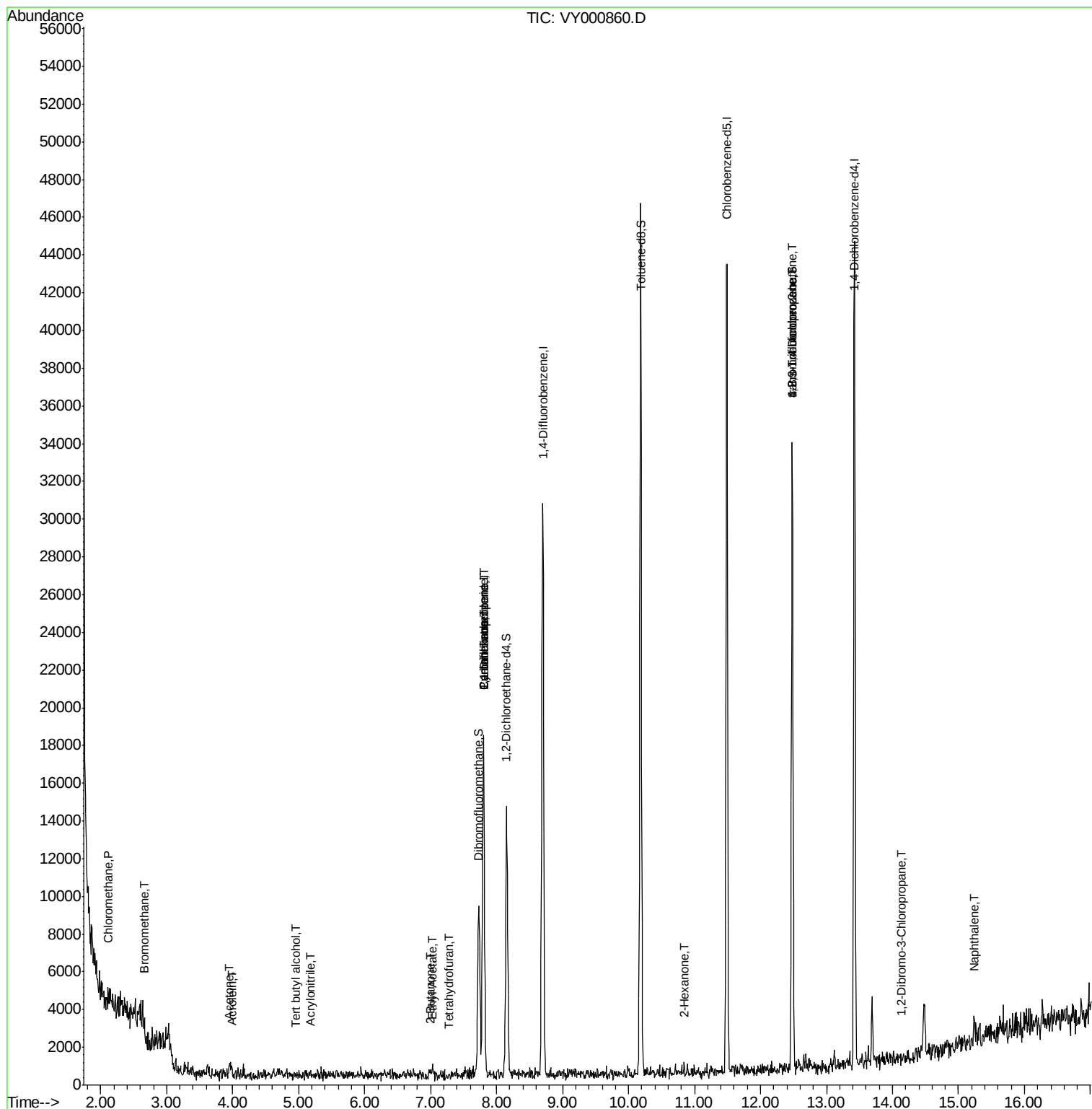
						Qvalue
3) Chloromethane	2.12	50	285	1.622	ug/l #	42
5) Bromomethane	2.67	94	156	1.010	ug/l #	3
11) Tert butyl alcohol	4.95	59	26	1.837	ug/l #	74
13) Acrolein	4.00	56	20	1.435	ug/l #	15
15) Acrylonitrile	5.19	53	58	1.258	ug/l #	18
16) Acetone	3.94	43	617	19.121	ug/l #	40
25) 2-Butanone	7.00	43	98	1.644	ug/l #	49
29) Tetrahydrofuran	7.27	42	93	2.354	ug/l #	33
31) Cyclohexane	7.80	56	311	1.041	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	1025	3.952	ug/l #	51
37) Ethyl Acetate	7.03	43	157	1.048	ug/l #	67
38) Carbon Tetrachloride	7.80	117	1443	6.247	ug/l #	11
59) 2-Hexanone	10.84	43	211	1.986	ug/l #	51
76) 1,2,3-Trichloropropane	12.48	75	5385	48.928	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	5385	96.109	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.14	75	57	2.234	ug/l #	1
95) Naphthalene	15.23	128	875	1.882	ug/l #	73

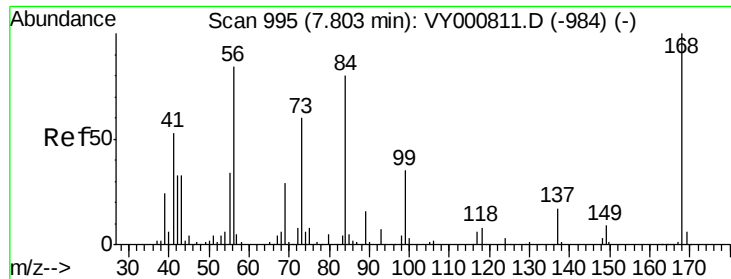
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampleId :

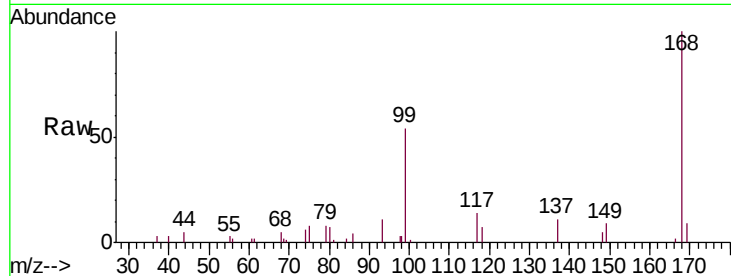
SB-2-(8-10)

Tgt Ion:168 Resp: 13238

Ion Ratio Lower Upper

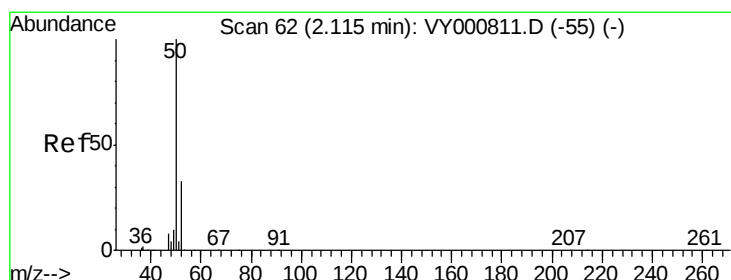
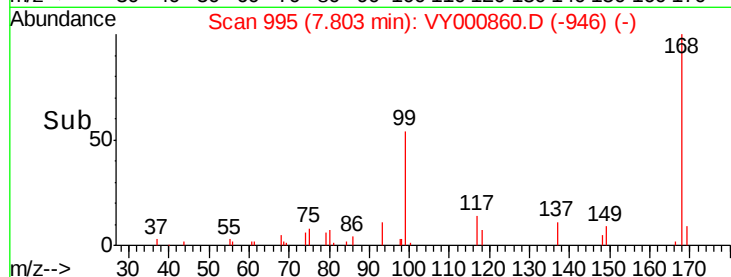
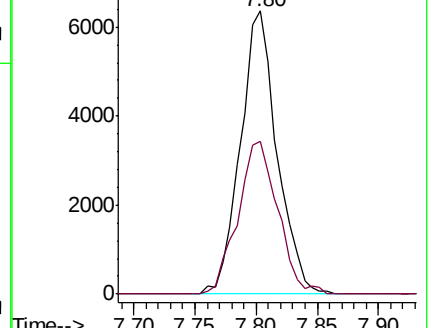
168 100

99 53.9 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000811.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000811.D (-984) (-)



#3

Chloromethane

Concen: 1.622 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY000860.D

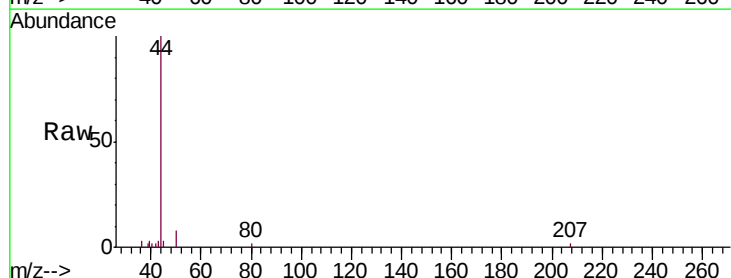
Acq: 04 Dec 2019 13:56

Tgt Ion: 50 Resp: 285

Ion Ratio Lower Upper

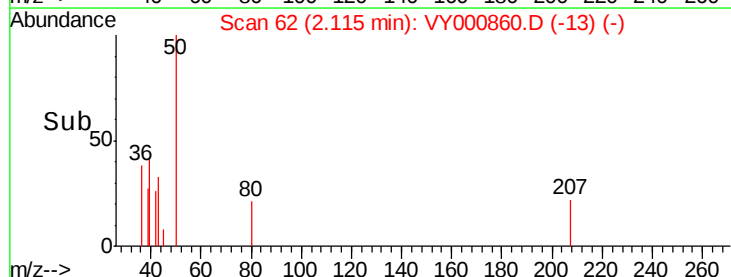
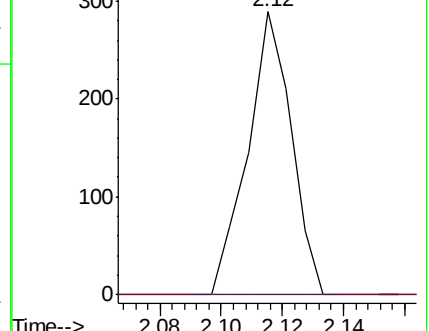
50 100

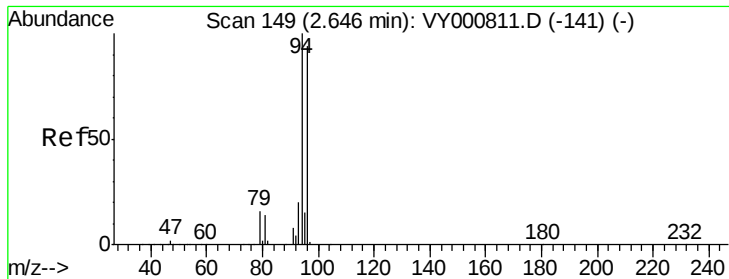
52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VY000811.D (-55) (-)

Ion 51.90 (51.60 to 52.60): VY000811.D (-55) (-)





#5

Bromomethane

Concen: 1.010 ug/l

RT: 2.67 min Scan# 153

Delta R.T. 0.02 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampleId :

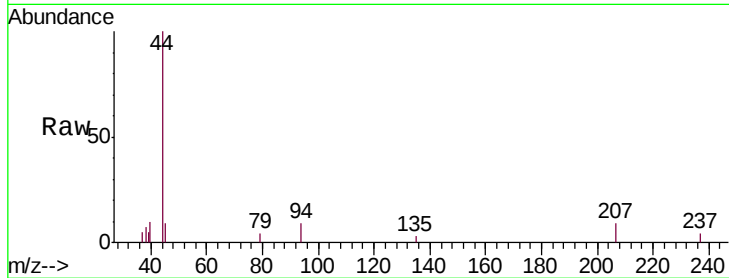
SB-2-(8-10)

Tgt Ion: 94 Resp: 156

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

2.67

150

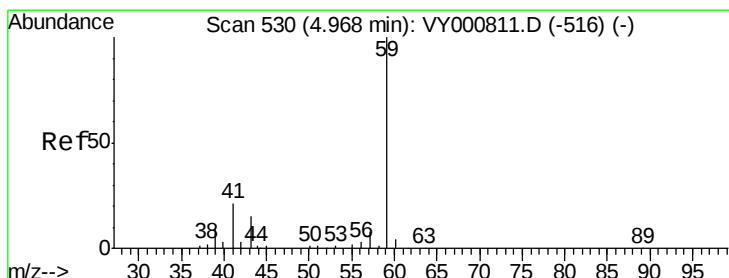
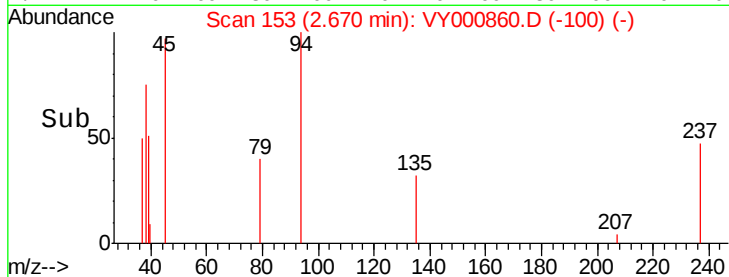
100

50

0

2.64 2.66 2.68 2.70

Time-->



#11

Tert butyl alcohol

Concen: 1.837 ug/l

RT: 4.95 min Scan# 527

Delta R.T. -0.02 min

Lab File: VY000860.D

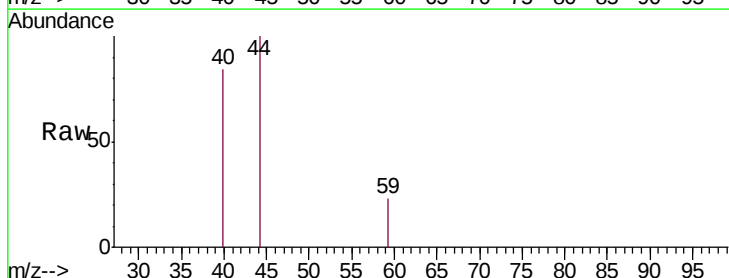
Acq: 04 Dec 2019 13:56

Tgt Ion: 59 Resp: 26

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

4.95

80

60

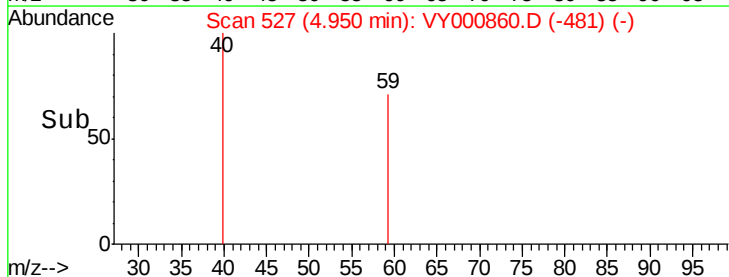
40

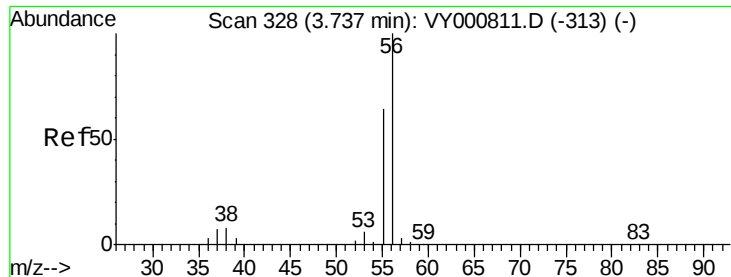
20

0

4.93 4.94 4.95 4.96 4.97

Time-->





#13

Acrolein

Concen: 1.435 ug/l

RT: 4.00 min Scan# 371

Delta R.T. 0.26 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampled :

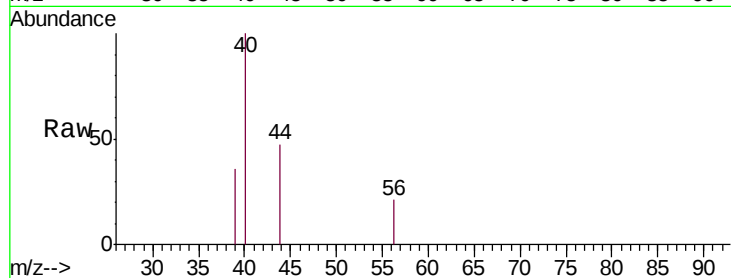
SB-2-(8-10)

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

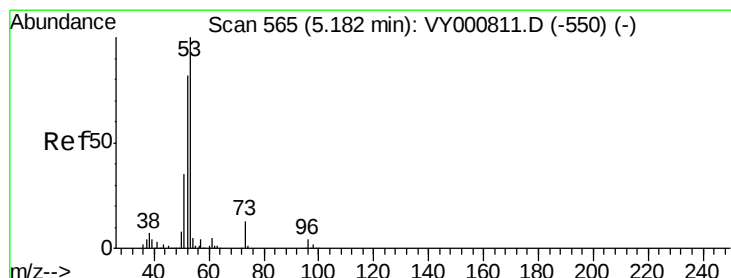
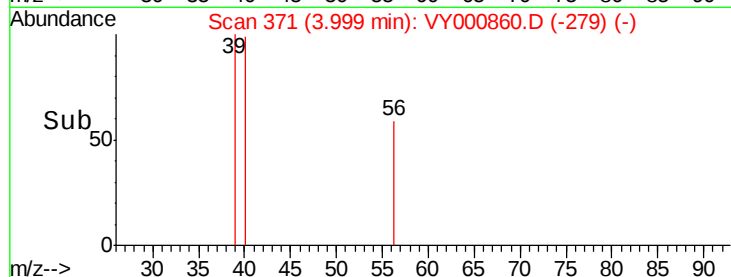
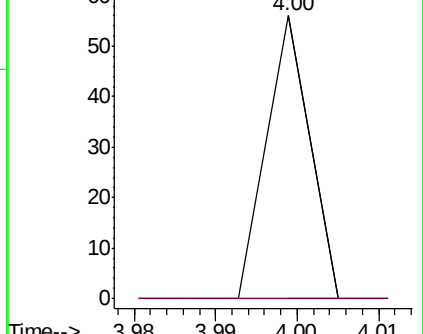
56 100

55 0.0 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#15

Acrylonitrile

Concen: 1.258 ug/l

RT: 5.19 min Scan# 566

Delta R.T. 0.01 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

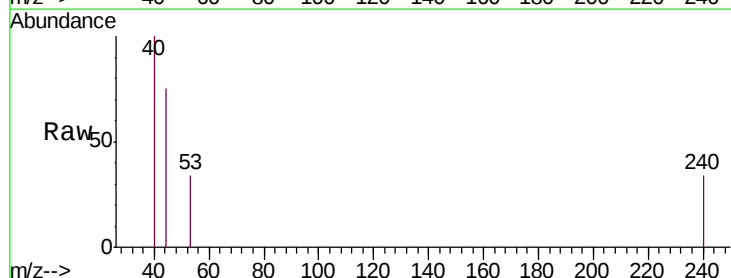
Tgt Ion: 53 Resp: 58

Ion Ratio Lower Upper

53 100

52 0.0 65.1 97.7#

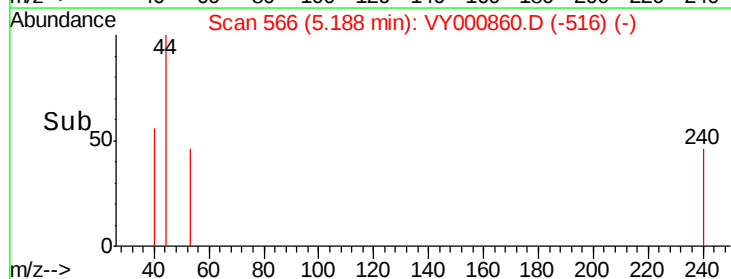
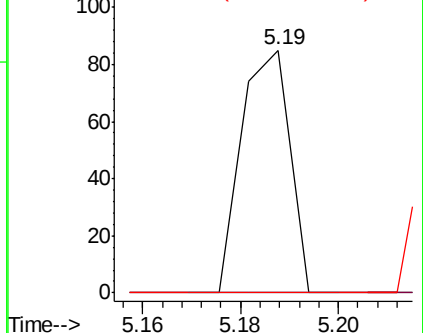
51 0.0 29.0 43.4#

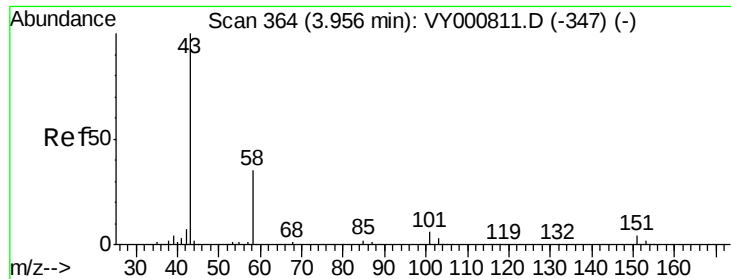


Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0





#16

Acetone

Concen: 19.121 ug/l

RT: 3.94 min Scan# 362

Delta R.T. -0.01 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampleId :

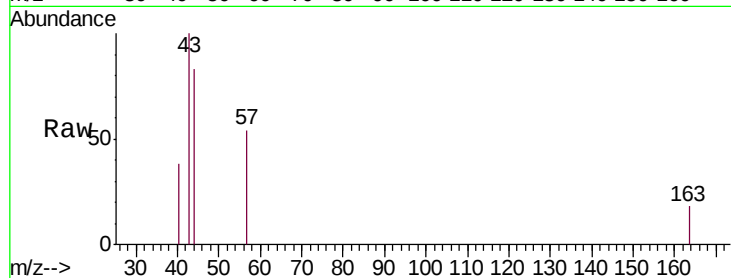
SB-2-(8-10)

Tgt Ion: 43 Resp: 617

Ion Ratio Lower Upper

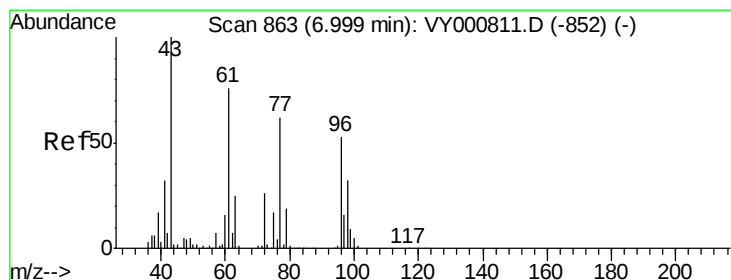
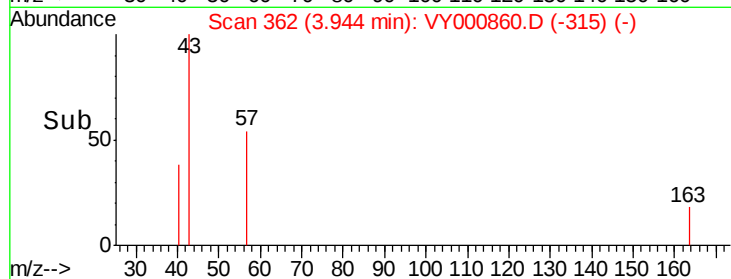
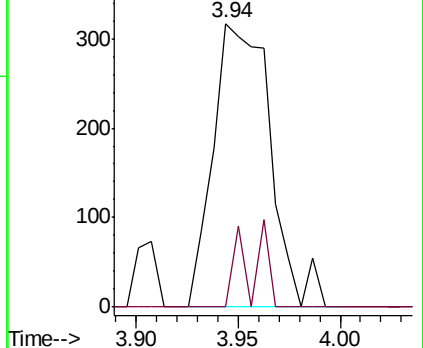
43 100

58 0.0 28.0 42.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#25

2-Butanone

Concen: 1.644 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.00 min

Lab File: VY000860.D

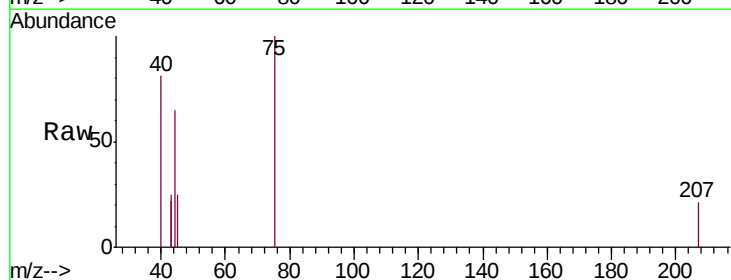
Acq: 04 Dec 2019 13:56

Tgt Ion: 43 Resp: 98

Ion Ratio Lower Upper

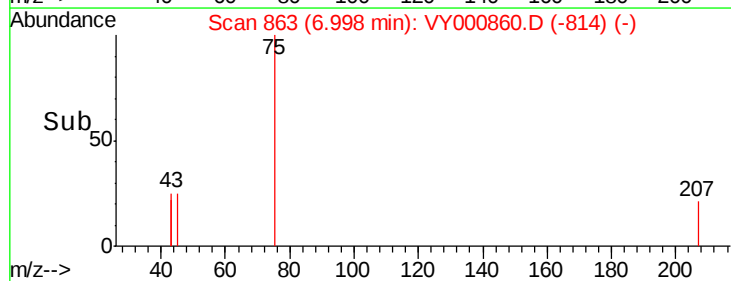
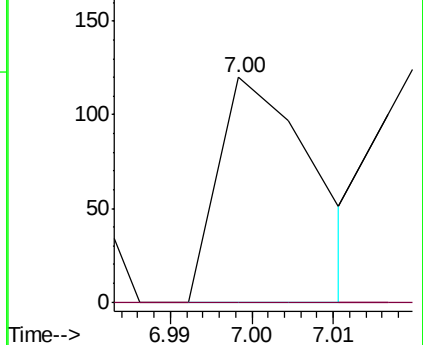
43 100

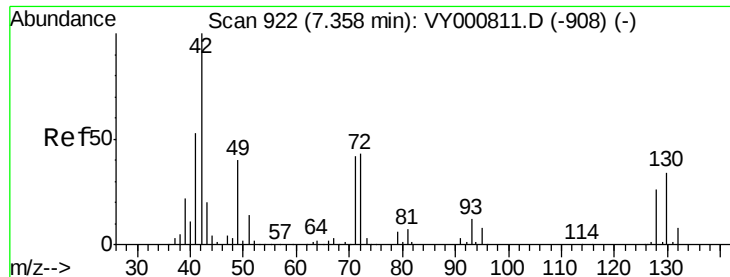
72 0.0 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0





#29

Tetrahydrofuran

Concen: 2.354 ug/l

RT: 7.27 min Scan# 908

Delta R.T. -0.09 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampleId :

SB-2-(8-10)

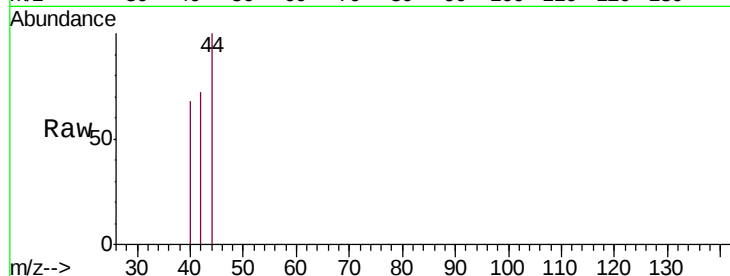
Tgt Ion: 42 Resp: 93

Ion Ratio Lower Upper

42 100

72 0.0 35.1 52.7#

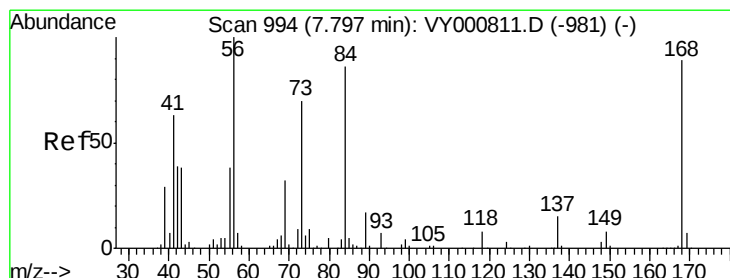
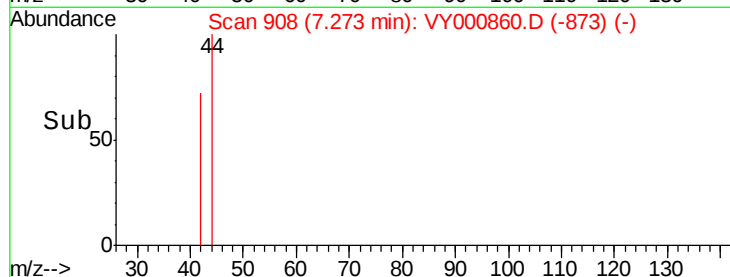
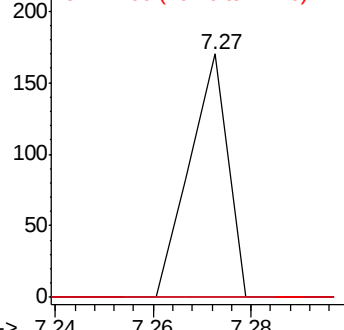
71 0.0 32.8 49.2#



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: 1.041 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

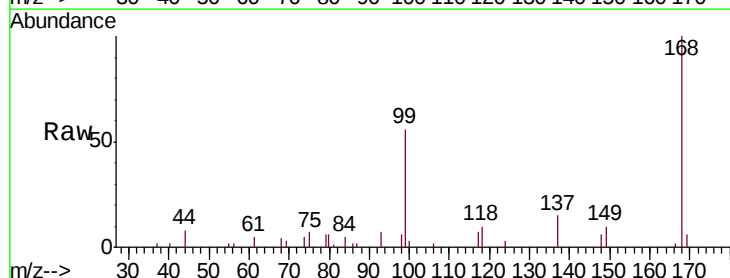
Tgt Ion: 56 Resp: 311

Ion Ratio Lower Upper

56 100

69 124.6 25.9 38.9#

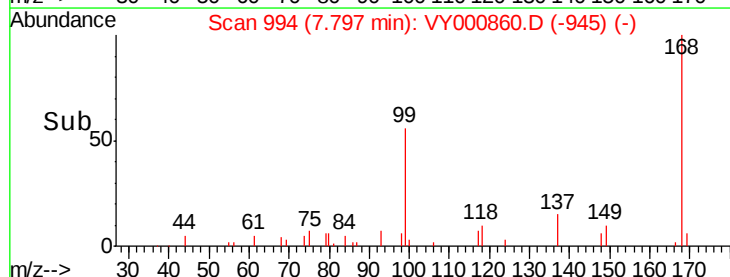
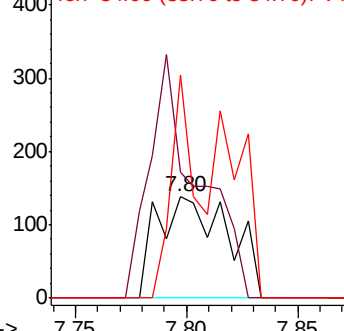
84 220.3 68.6 102.8#

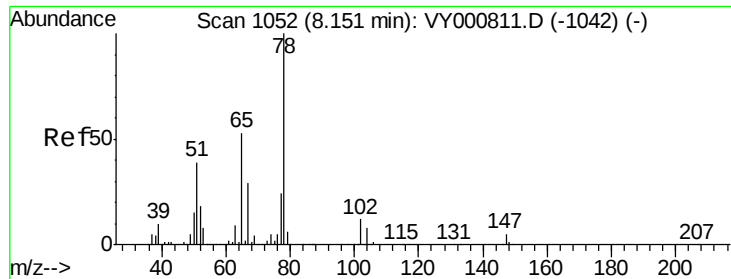


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 74.567 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampleId :

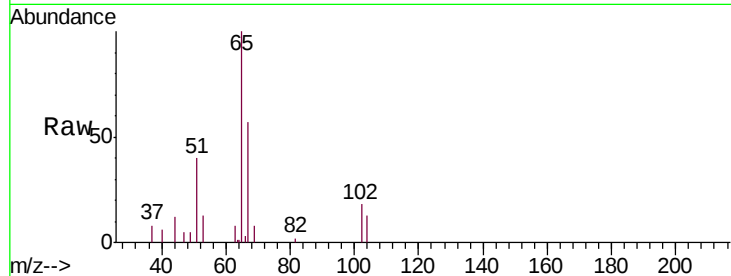
SB-2-(8-10)

Tgt Ion: 65 Resp: 10489

Ion Ratio Lower Upper

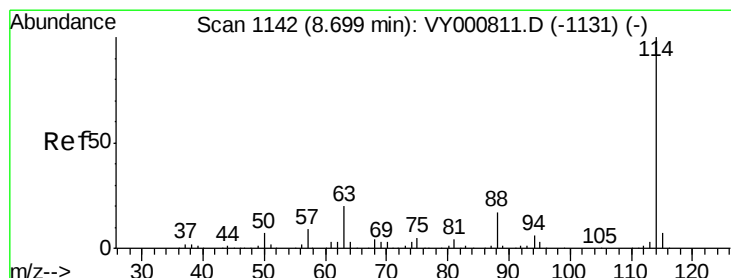
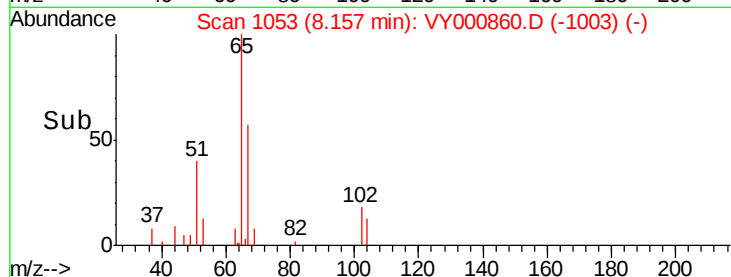
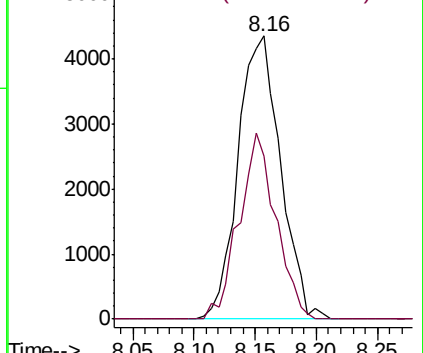
65 100

67 56.9 0.0 112.0



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: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

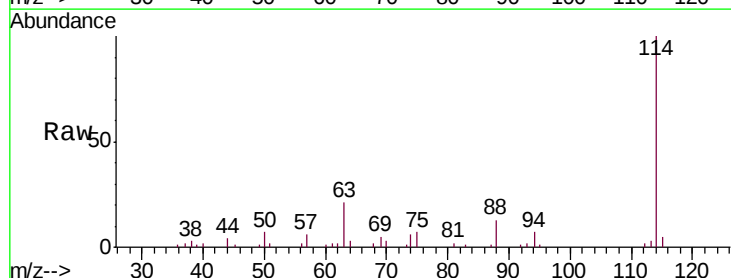
Tgt Ion: 114 Resp: 26085

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.8

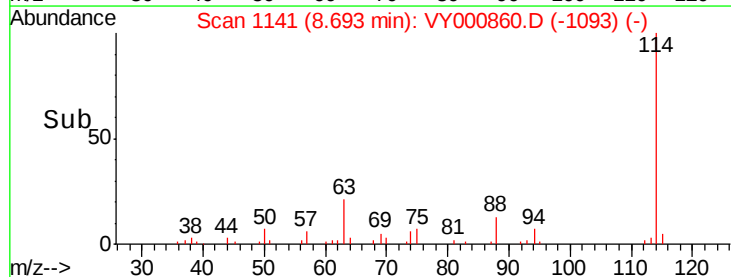
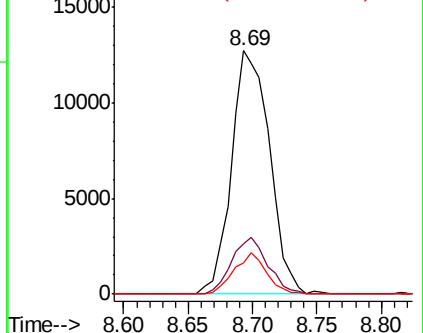
88 12.6 0.0 33.2

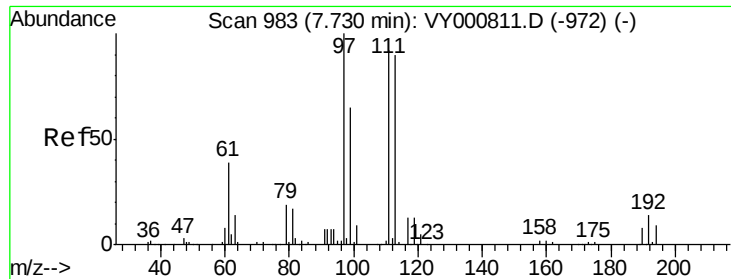


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

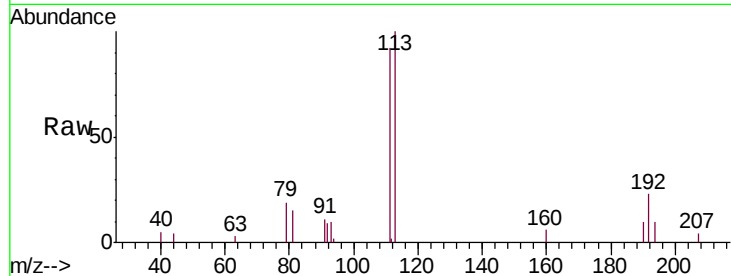




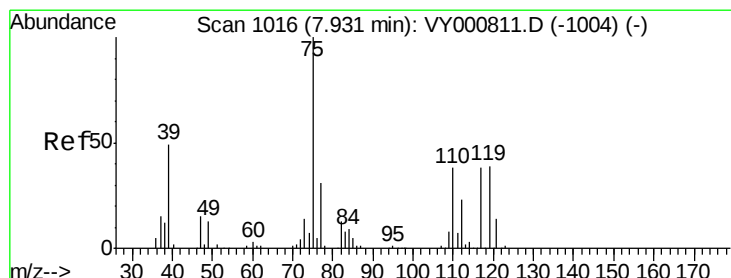
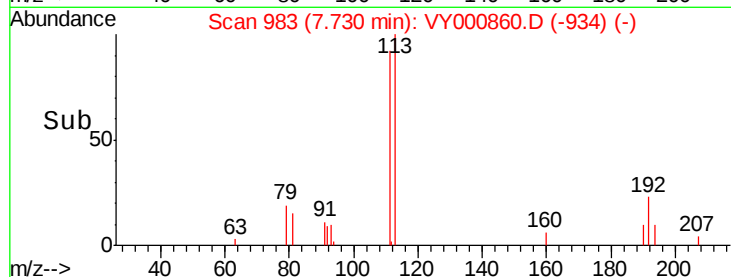
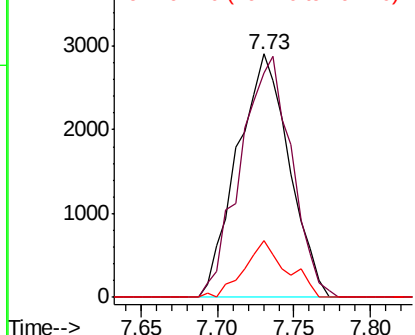
#35
 Dibromofluoromethane
 Concen: 45.013 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VY000860.D
 Acq: 04 Dec 2019 13:56

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-2-(8-10)

Tgt Ion:113 Resp: 6843
 Ion Ratio Lower Upper
 113 100
 111 97.4 82.4 123.6
 192 19.0 14.2 21.2

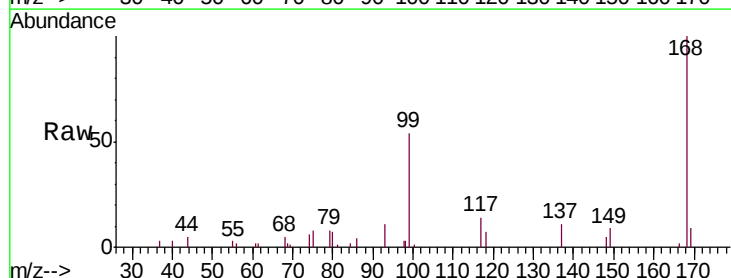


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

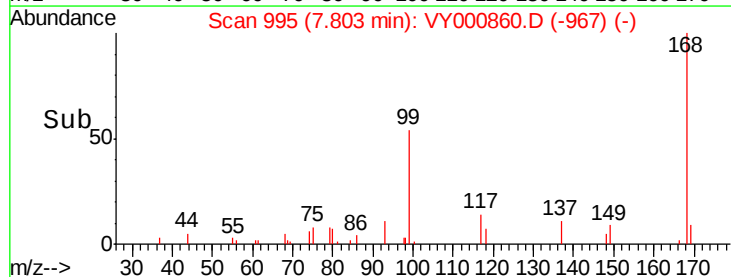
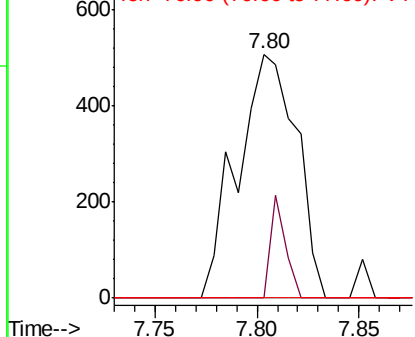


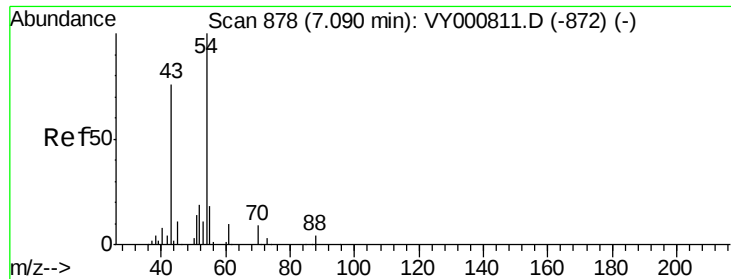
#36
 1,1-Dichloropropene
 Concen: 3.952 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY000860.D
 Acq: 04 Dec 2019 13:56

Tgt Ion: 75 Resp: 1025
 Ion Ratio Lower Upper
 75 100
 110 10.6 17.9 53.7#
 77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VY0

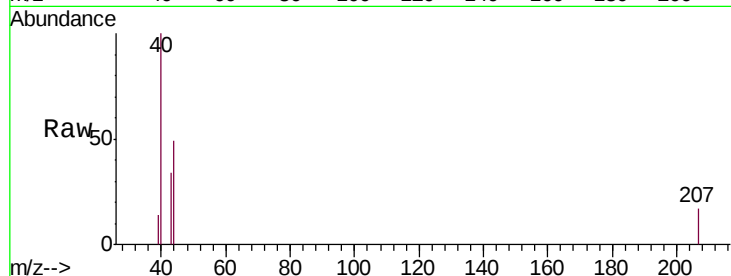




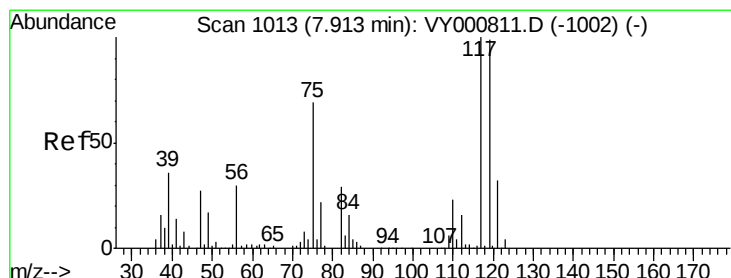
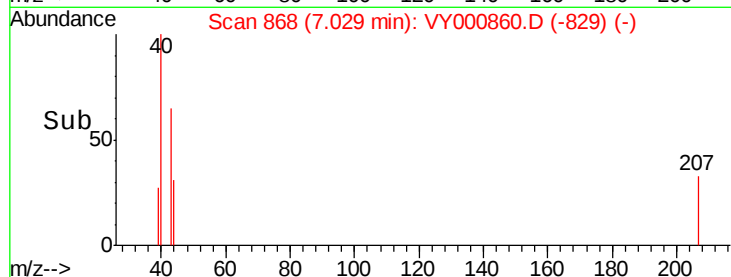
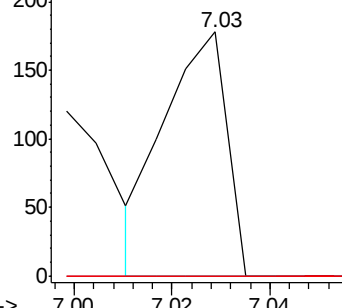
#37
Ethyl Acetate
Concen: 1.048 ug/l
RT: 7.03 min Scan# 868
Delta R.T. -0.06 min
Lab File: VY000860.D
Acq: 04 Dec 2019 13:56

Instrument :
MSVOA_Y
ClientSampleId :
SB-2-(8-10)

Tgt Ion: 43 Resp: 157
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.7 13.1#

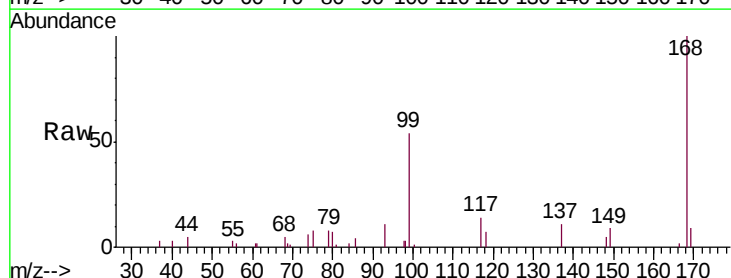


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

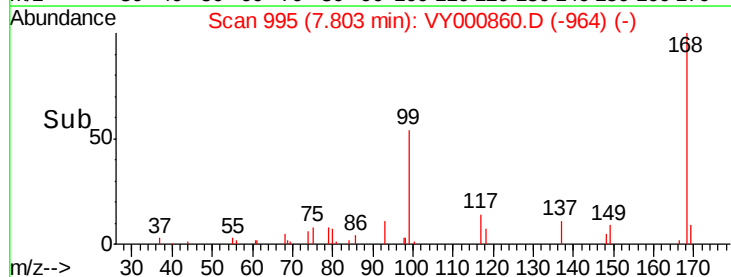
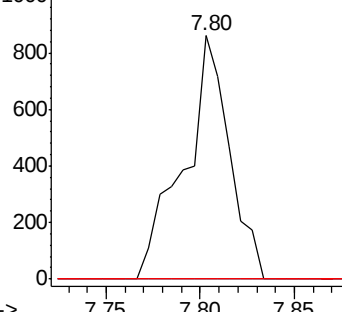


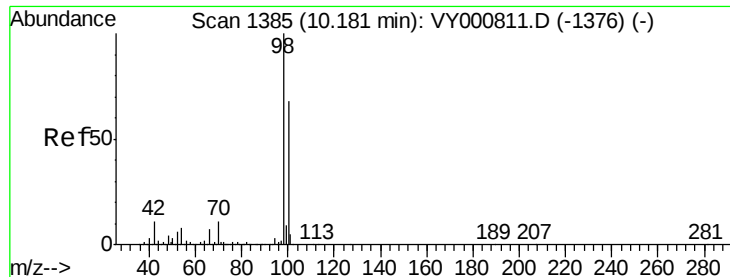
#38
Carbon Tetrachloride
Concen: 6.247 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.11 min
Lab File: VY000860.D
Acq: 04 Dec 2019 13:56

Tgt Ion: 117 Resp: 1443
Ion Ratio Lower Upper
117 100
119 0.0 79.3 118.9#
121 0.0 25.5 38.3#



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





#50

Toluene-d8

Concen: 50.956 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampleId :

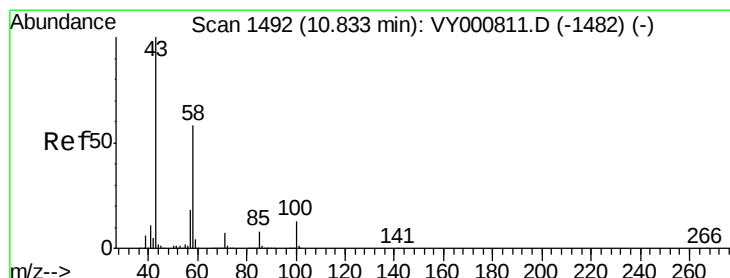
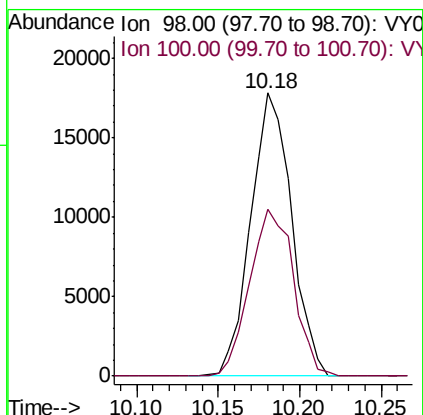
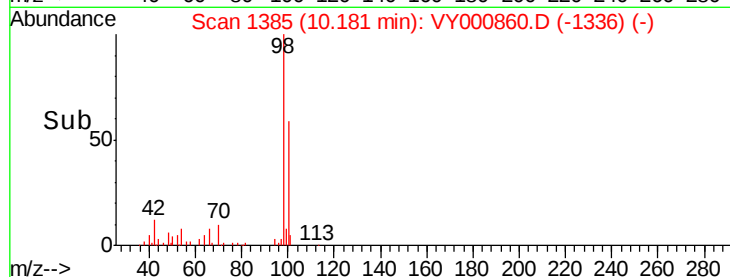
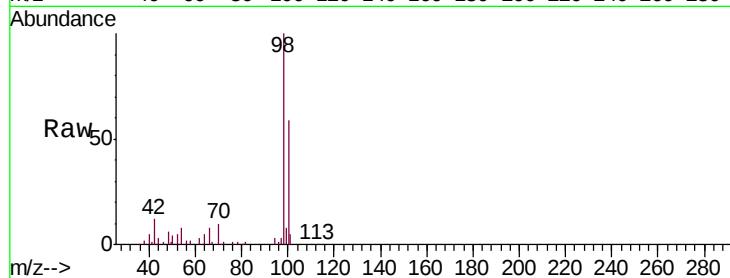
SB-2-(8-10)

Tgt Ion: 98 Resp: 30970

Ion Ratio Lower Upper

98 100

100 63.2 53.1 79.7



#59

2-Hexanone

Concen: 1.986 ug/l

RT: 10.84 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VY000860.D

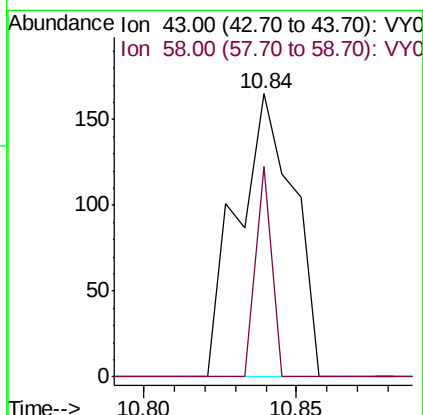
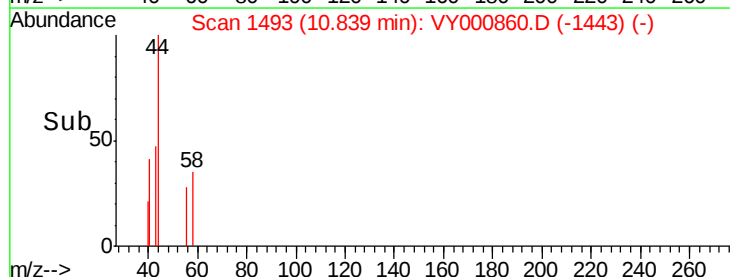
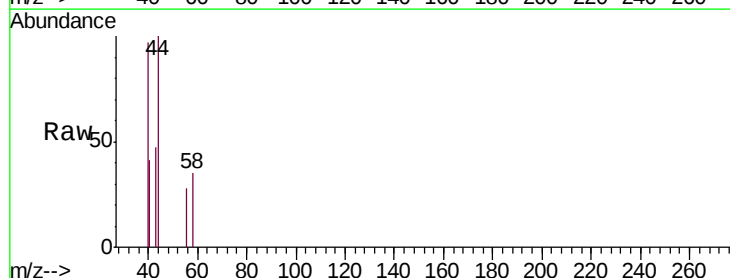
Acq: 04 Dec 2019 13:56

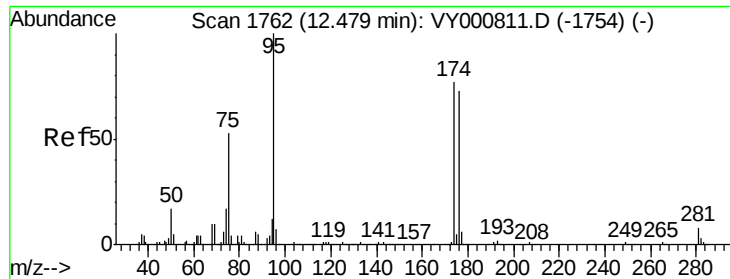
Tgt Ion: 43 Resp: 211

Ion Ratio Lower Upper

43 100

58 21.3 29.0 87.1#

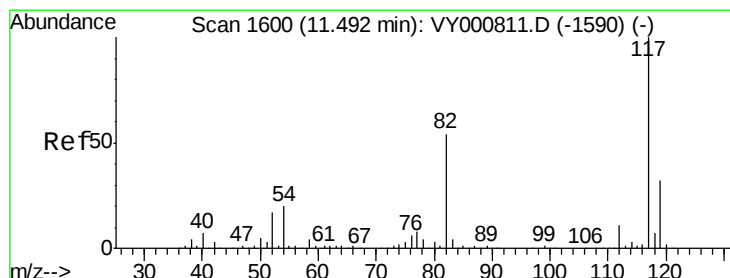
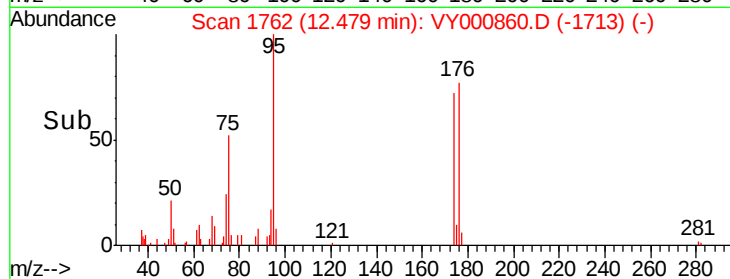
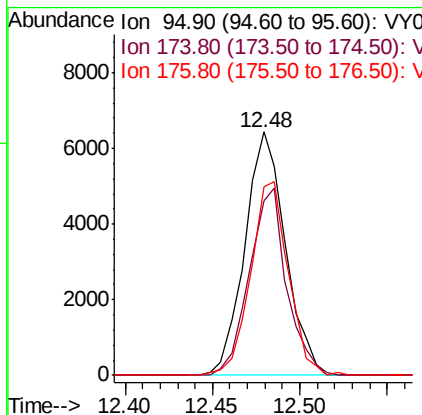
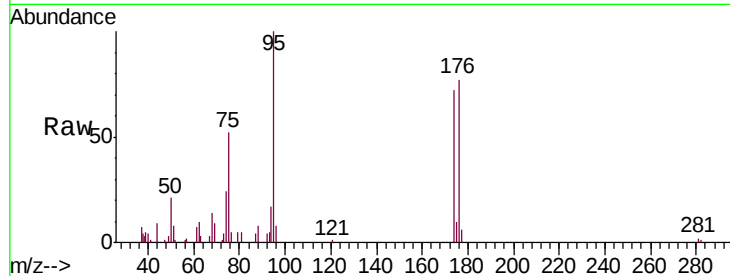




#62
4-Bromofluorobenzene
Concen: 45.379 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY000860.D
Acq: 04 Dec 2019 13:56

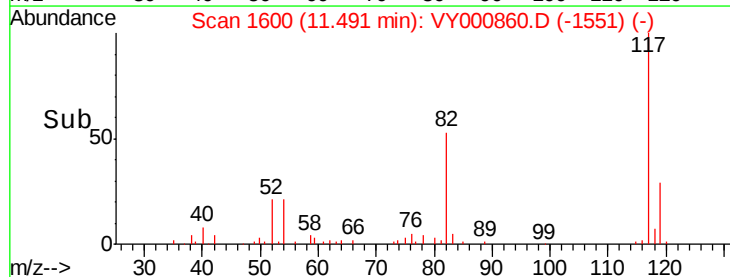
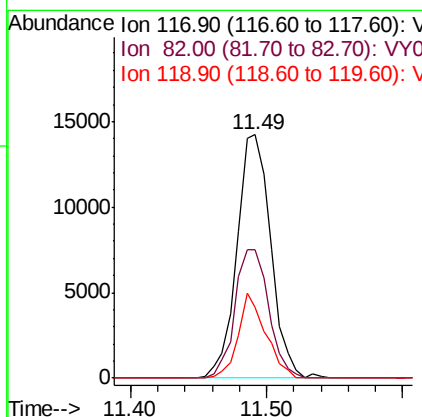
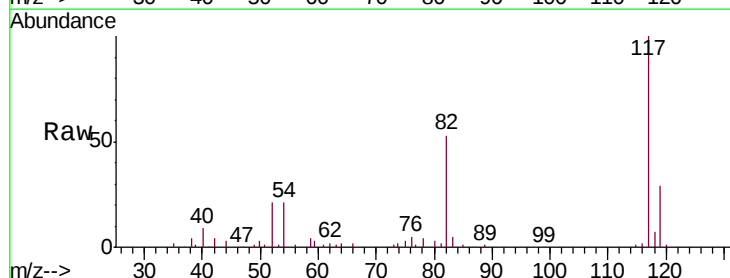
Instrument :
MSVOA_Y
ClientSampleId :
SB-2-(8-10)

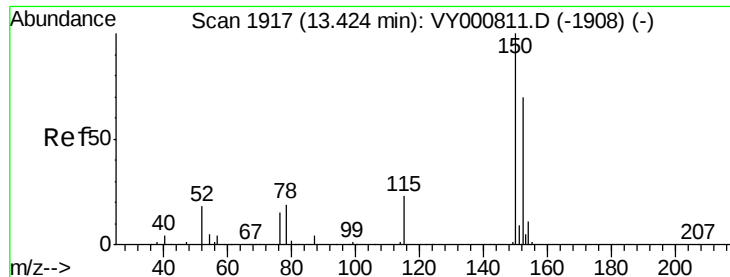
Tgt Ion: 95 Resp: 10358
Ion Ratio Lower Upper
95 100
174 71.1 0.0 150.6
176 73.9 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY000860.D
Acq: 04 Dec 2019 13:56

Tgt Ion: 117 Resp: 24678
Ion Ratio Lower Upper
117 100
82 52.6 43.1 64.7
119 28.9 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY000860.D

Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampled :

SB-2-(8-10)

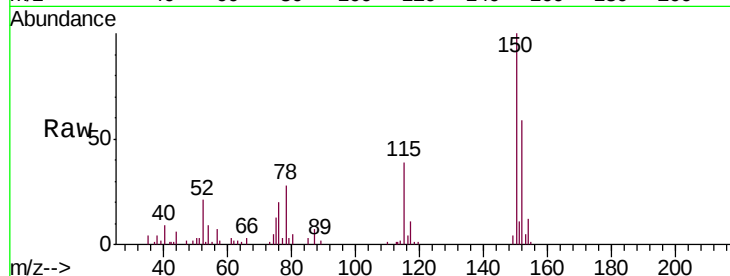
Tgt Ion:152 Resp: 9714

Ion Ratio Lower Upper

152 100

115 68.2 29.3 87.8

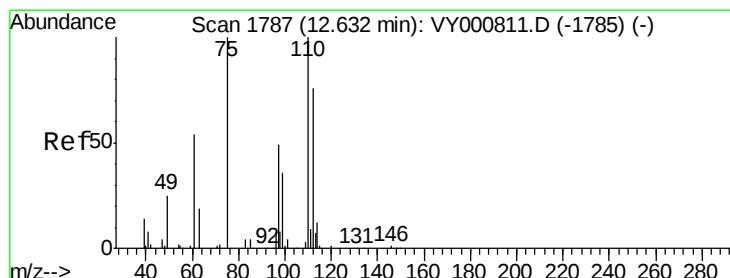
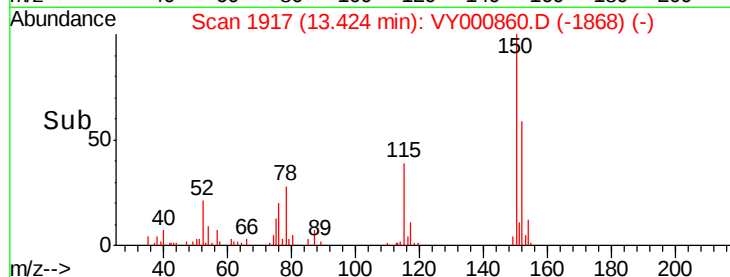
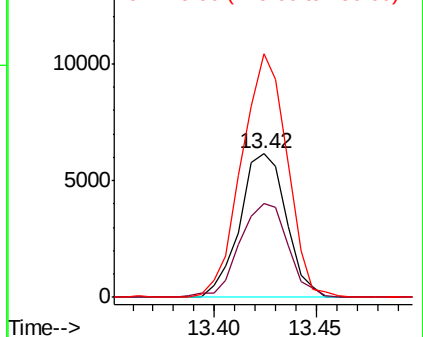
150 166.5 0.0 351.2



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: 48.928 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000860.D

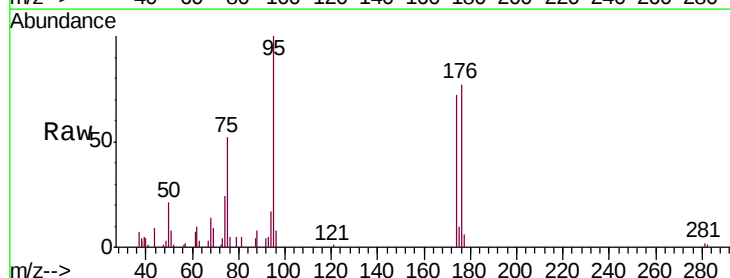
Acq: 04 Dec 2019 13:56

Tgt Ion: 75 Resp: 5385

Ion Ratio Lower Upper

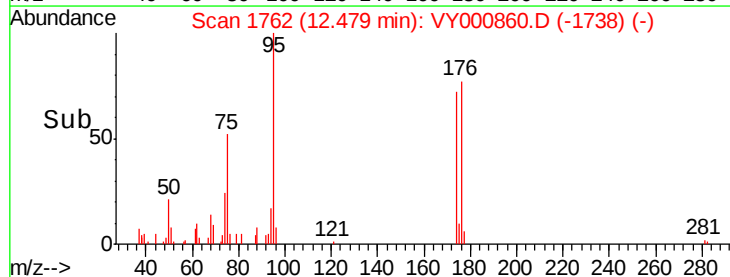
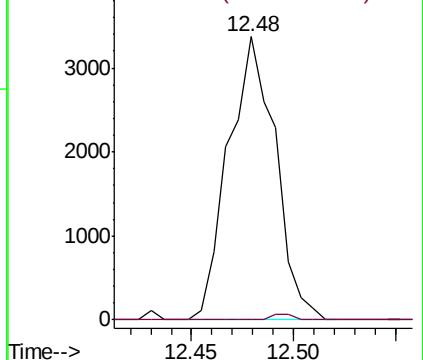
75 100

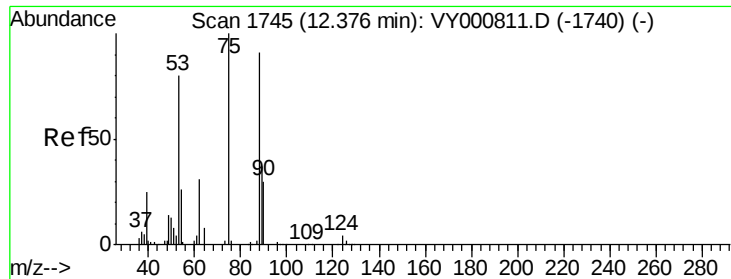
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

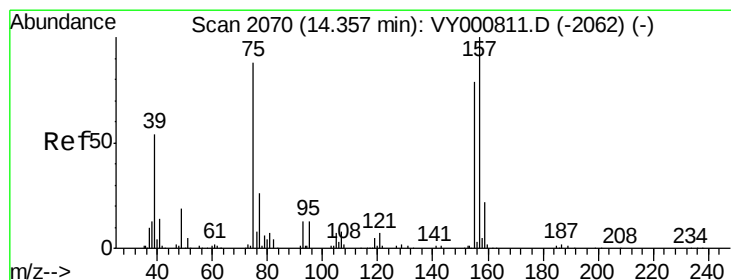
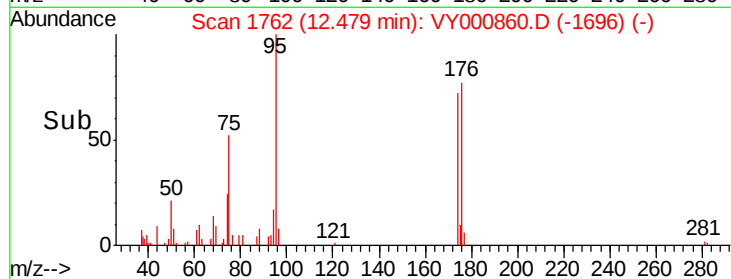
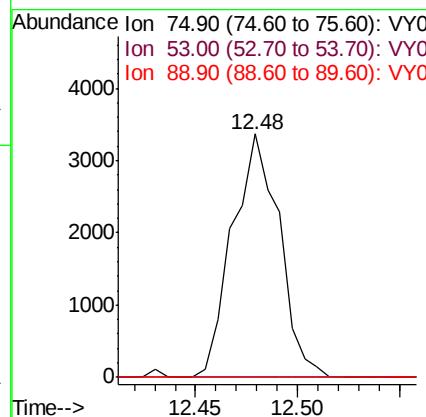
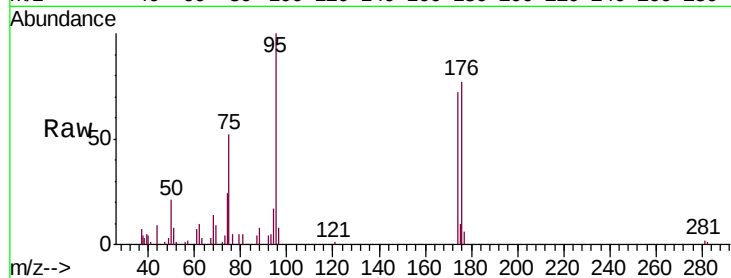




#81
trans-1,4-Dichloro-2-butene
Concen: 96.109 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.10 min
Lab File: VY000860.D
Acq: 04 Dec 2019 13:56

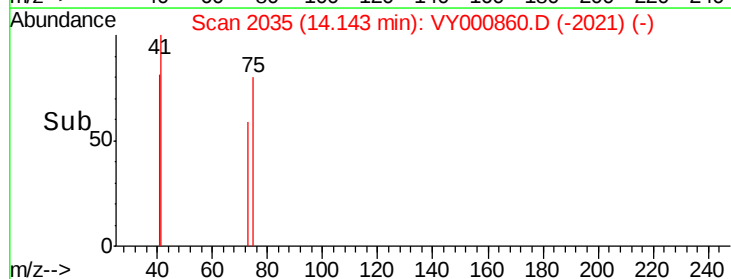
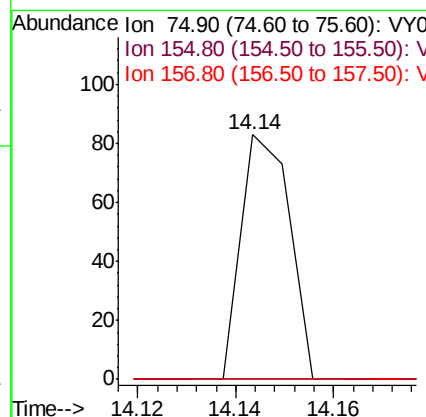
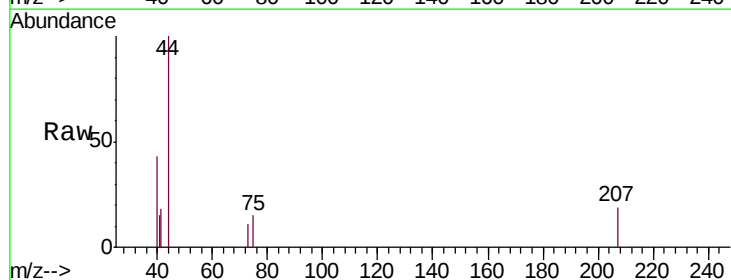
Instrument :
MSVOA_Y
ClientSampleId :
SB-2-(8-10)

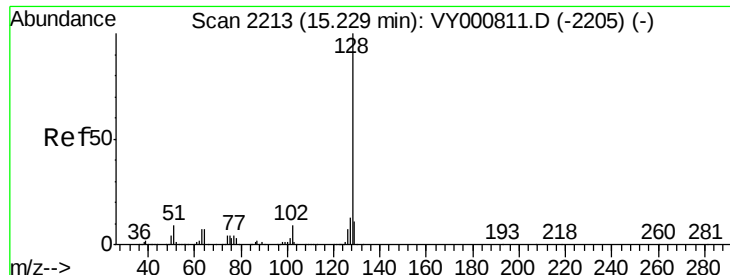
Tgt Ion: 75 Resp: 5385
Ion Ratio Lower Upper
75 100
53 0.0 64.6 96.8#
89 0.0 33.6 50.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.234 ug/l
RT: 14.14 min Scan# 2035
Delta R.T. -0.21 min
Lab File: VY000860.D
Acq: 04 Dec 2019 13:56

Tgt Ion: 75 Resp: 57
Ion Ratio Lower Upper
75 100
155 0.0 44.3 132.9#
157 0.0 56.3 168.9#





#95

Naphthalene

Concen: 1.882 ug/l

RT: 15.23 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VY000860.D

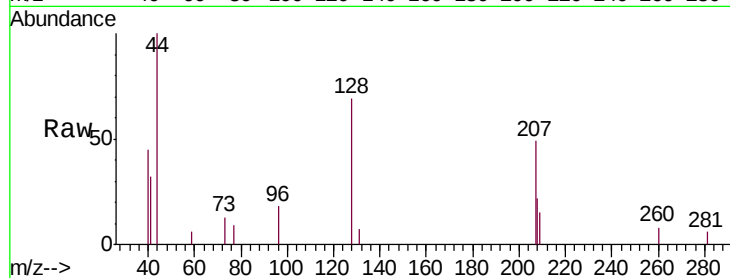
Acq: 04 Dec 2019 13:56

Instrument :

MSVOA_Y

ClientSampleId :

SB-2-(8-10)



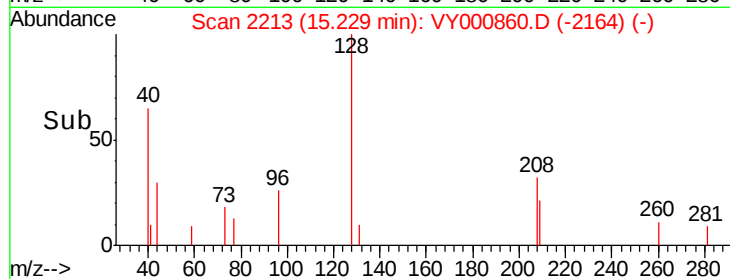
Tgt Ion:128 Resp: 875

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 2.9 8.8 13.2#



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

