

Data File : VY001513.D
Acq On : 05 Feb 2020 17:34
Operator : SY/MD
Sample : L1393-06
Misc : 7.03G/5ML/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
HAM-SB-01-1-2

Quant Time: Feb 06 07:00:59 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y020420S.M
Quant Title : SW846 8260
QLast Update : Tue Feb 04 15:10:08 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	163715	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.71	114	305669	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	272768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	108308	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.17	65	100712	61.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.20%	
35) Dibromofluoromethane	7.75	113	92129	52.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.54%	
50) Toluene-d8	10.19	98	365818	54.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.72%	
62) 4-Bromofluorobenzene	12.49	95	125929	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	

Target Compounds

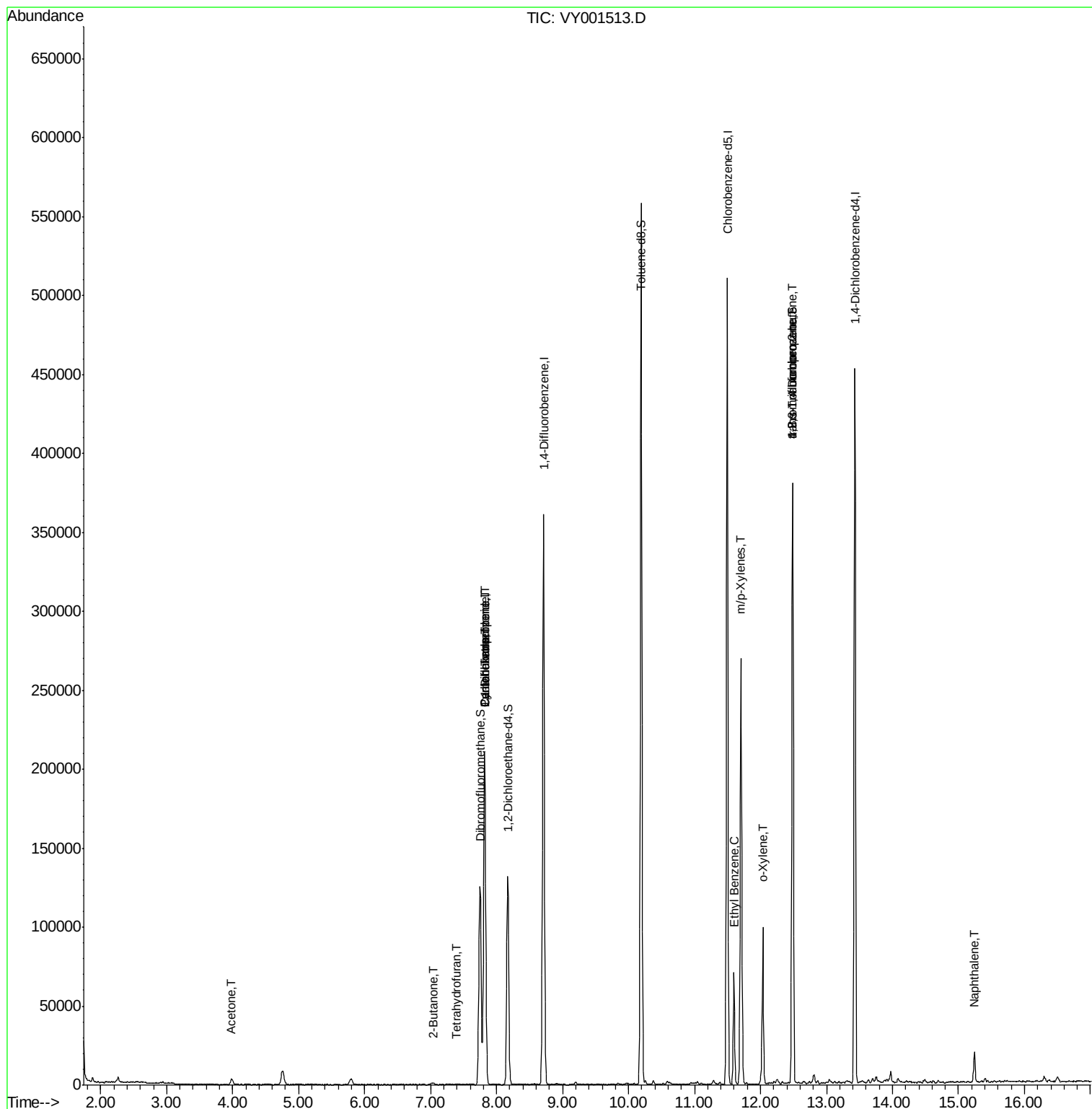
						Qvalue
11) Tert butyl alcohol	5.00	59	125	Below Cal	#	76
16) Acetone	3.98	43	6559	13.756	ug/l	89
20) Methylene Chloride	4.76	84	7124	Below Cal		96
25) 2-Butanone	7.03	43	1019	1.647	ug/l #	81
29) Tetrahydrofuran	7.39	42	394	1.063	ug/l #	48
31) Cyclohexane	7.82	56	3642	1.135	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	13405	4.794	ug/l #	48
38) Carbon Tetrachloride	7.82	117	16787	6.205	ug/l #	15
67) Ethyl Benzene	11.60	91	49716	5.020	ug/l	99
68) m/p-Xylenes	11.70	106	81349	21.883	ug/l	97
69) o-Xylene	12.03	106	25271	7.210	ug/l	96
76) 1,2,3-Trichloropropane	12.49	75	63107	54.181	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	63107	104.837	ug/l #	16
95) Naphthalene	15.24	128	14868	3.024	ug/l	99

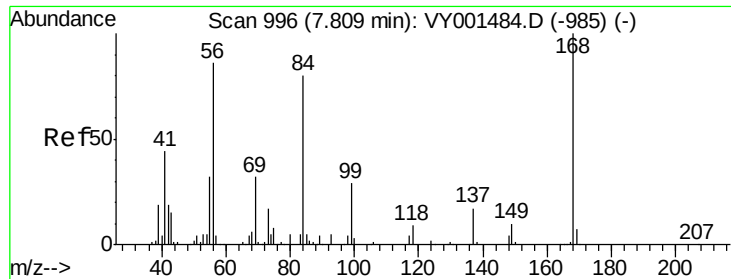
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampleId :

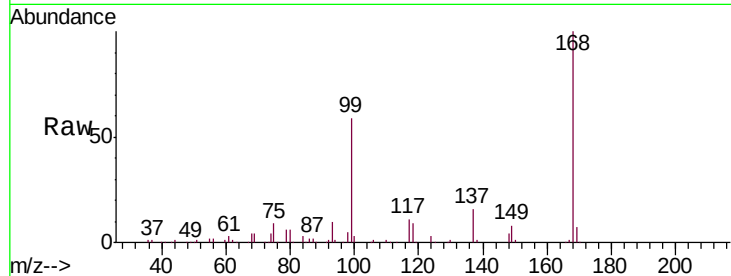
HAM-SB-01-1-2

Tgt Ion: 168 Resp: 163715

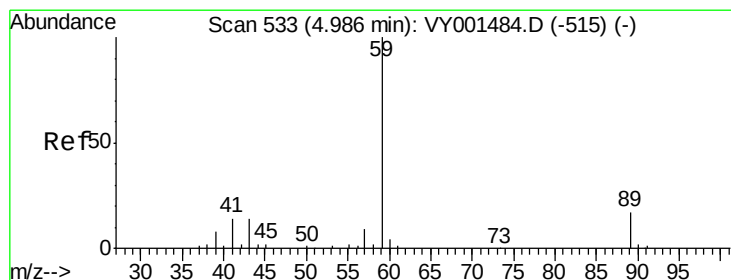
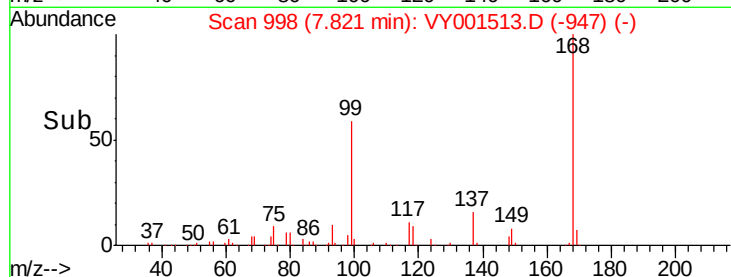
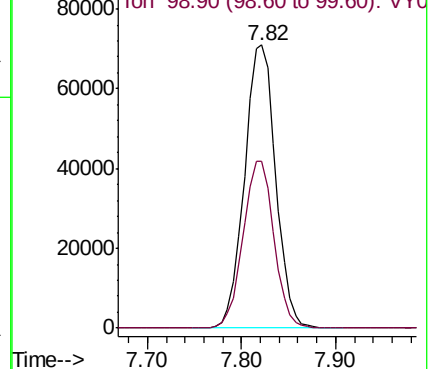
Ion Ratio Lower Upper

168 100

99 59.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VY001513.D (-947) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 536

Delta R.T. 0.02 min

Lab File: VY001513.D

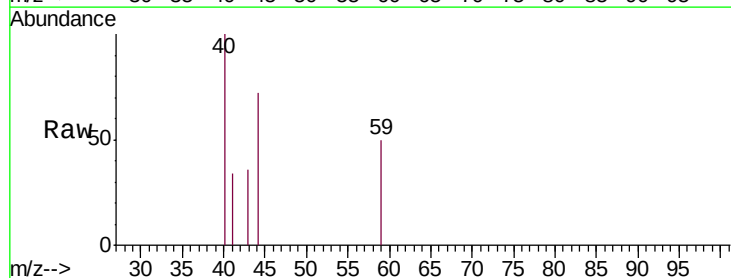
Acq: 05 Feb 2020 17:34

Tgt Ion: 59 Resp: 125

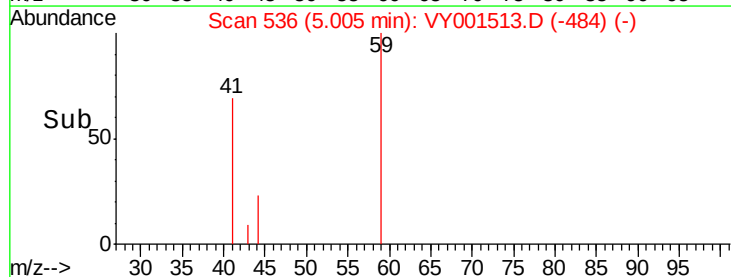
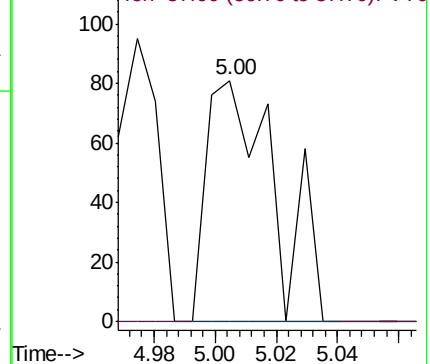
Ion Ratio Lower Upper

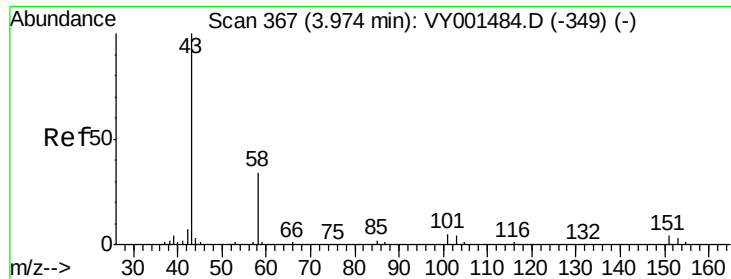
59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VY001513.D (-484) (-)





#16

Acetone

Concen: 13.756 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.01 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampleId :

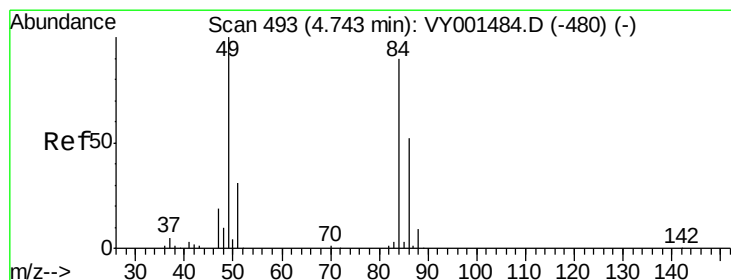
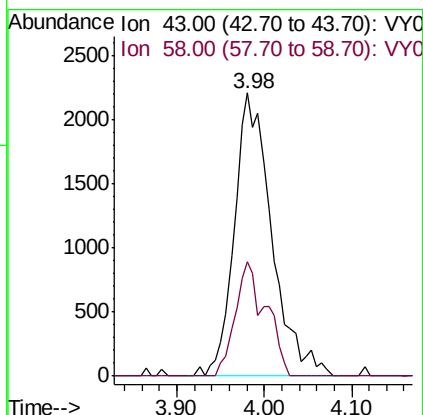
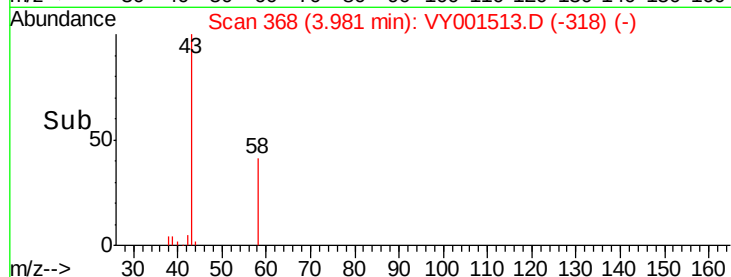
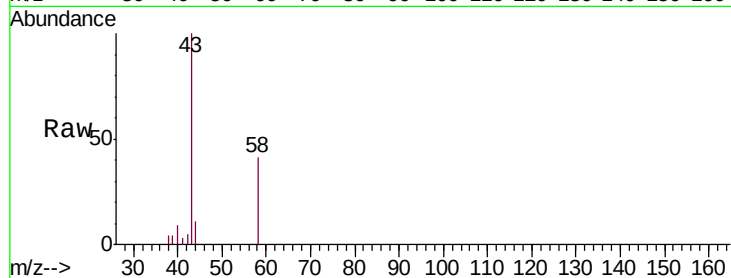
HAM-SB-01-1-2

Tgt Ion: 43 Resp: 6559

Ion Ratio Lower Upper

43 100

58 40.5 27.5 41.3



#20

Methylene Chloride

Concen: Below Cal

RT: 4.76 min Scan# 496

Delta R.T. 0.02 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Tgt Ion: 84 Resp: 7124

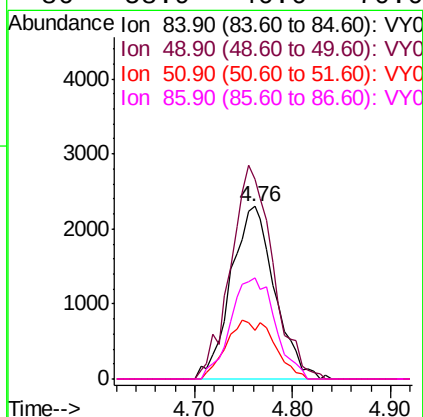
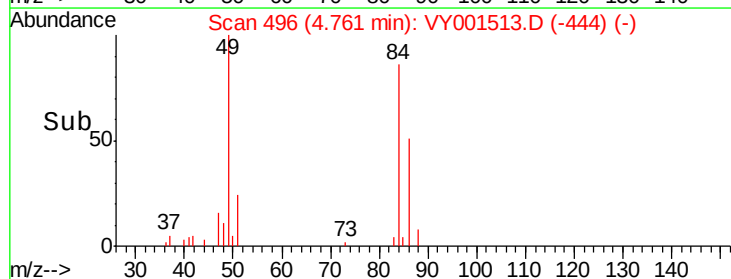
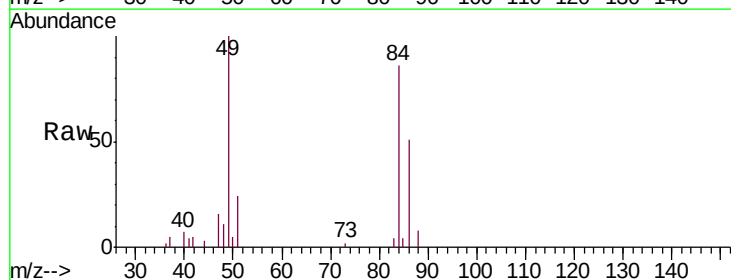
Ion Ratio Lower Upper

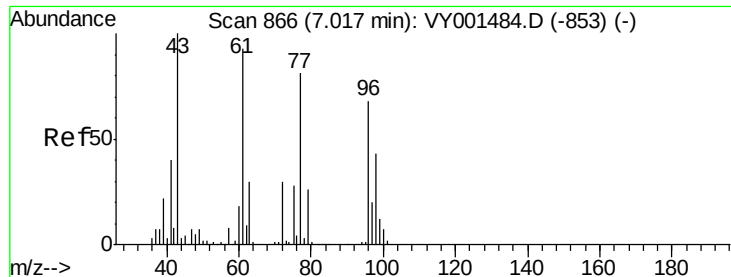
84 100

49 116.2 89.0 133.6

51 28.3 27.4 41.2

86 58.9 46.6 70.0





#25

2-Butanone

Concen: 1.647 ug/l

RT: 7.03 min Scan# 869

Delta R.T. 0.02 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampleId :

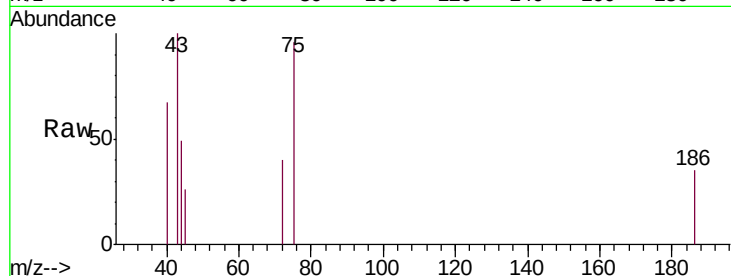
HAM-SB-01-1-2

Tgt Ion: 43 Resp: 1019

Ion Ratio Lower Upper

43 100

72 40.2 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

7.03

400

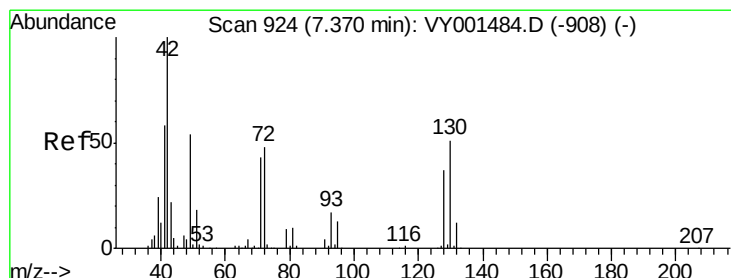
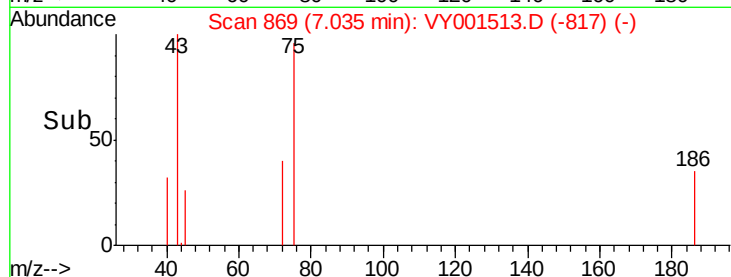
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 1.063 ug/l

RT: 7.39 min Scan# 927

Delta R.T. 0.02 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

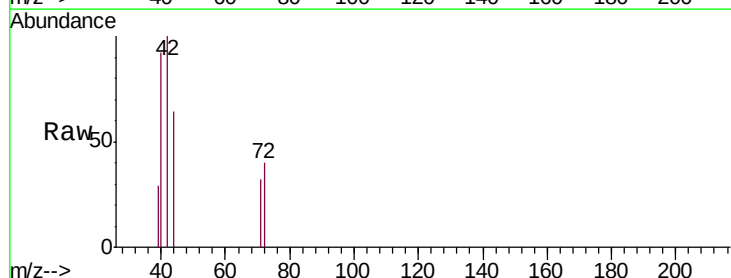
Tgt Ion: 42 Resp: 394

Ion Ratio Lower Upper

42 100

72 15.0 37.8 56.6#

71 6.9 34.8 52.2#



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

300

250

200

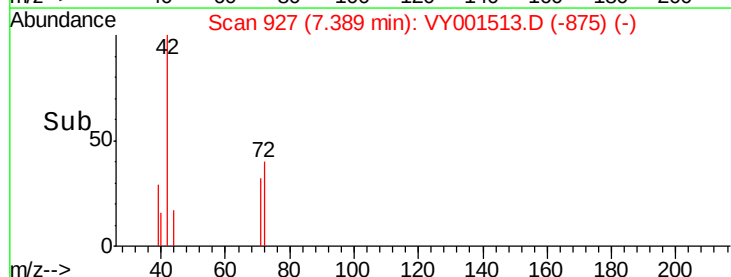
150

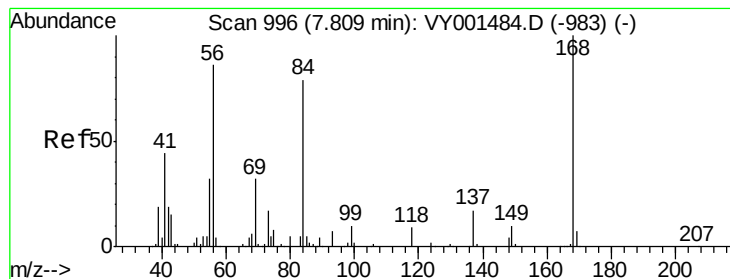
100

50

0

Time-->





#31

Cyclohexane

Concen: 1.135 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampleId :

HAM-SB-01-1-2

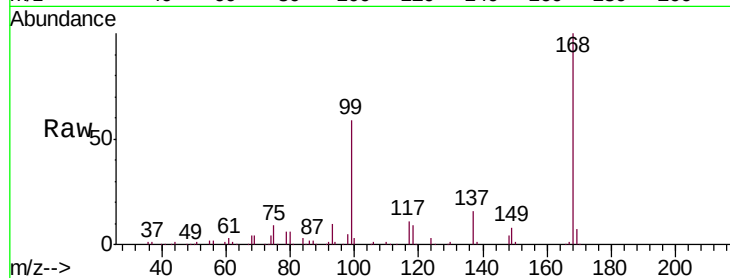
Tgt Ion: 56 Resp: 3642

Ion Ratio Lower Upper

56 100

69 164.5 29.6 44.4#

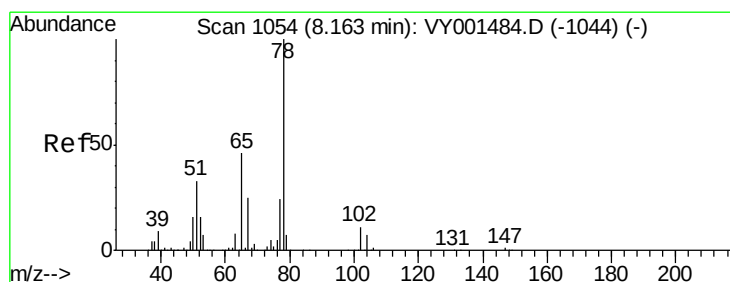
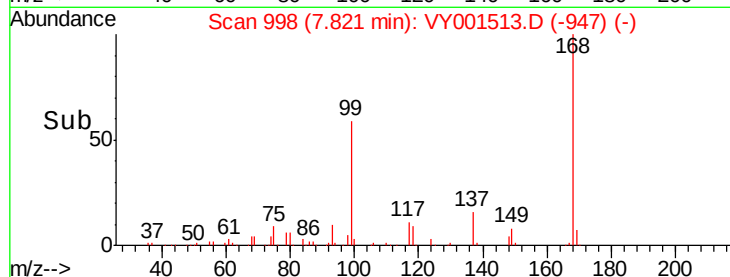
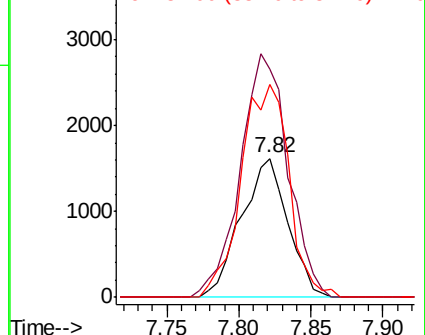
84 153.6 73.6 110.4#



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: 61.098 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY001513.D

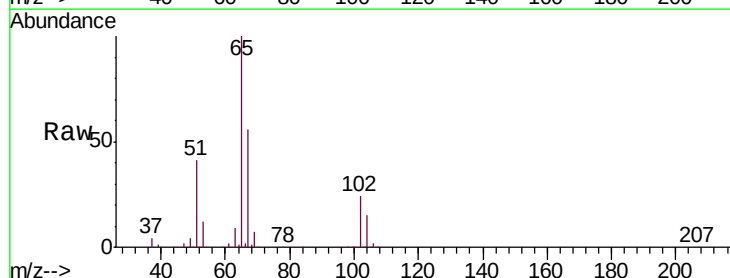
Acq: 05 Feb 2020 17:34

Tgt Ion: 65 Resp: 100712

Ion Ratio Lower Upper

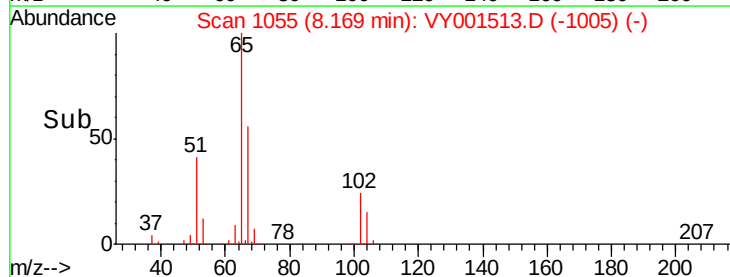
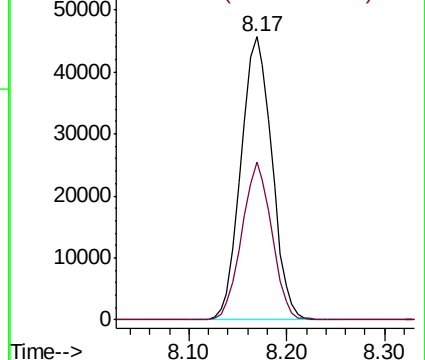
65 100

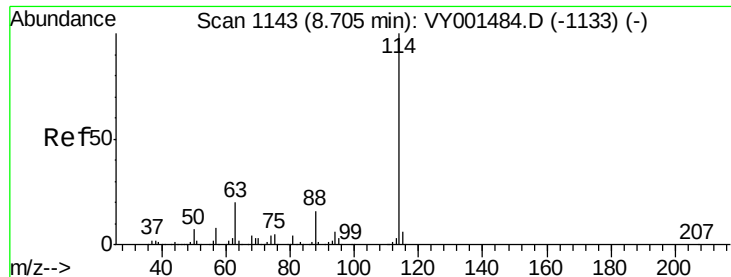
67 53.8 0.0 108.6



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: 8.71 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampleId :

HAM-SB-01-1-2

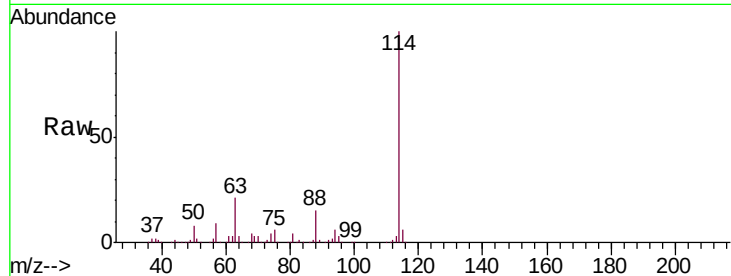
Tgt Ion:114 Resp: 305669

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.8

88 15.3 0.0 32.6



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

200000

150000

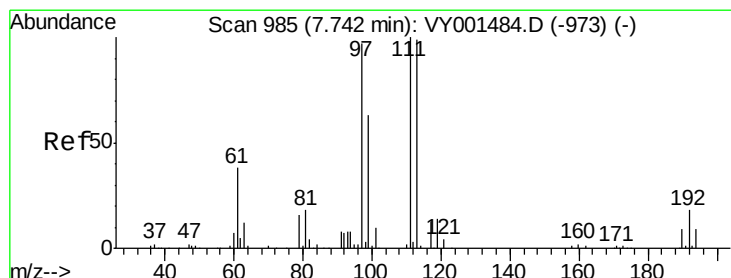
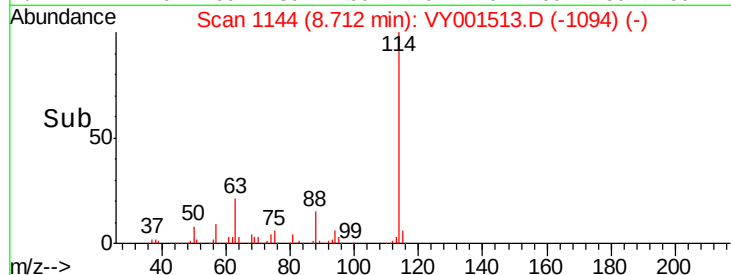
100000

50000

0

8.60 8.70 8.80

Time-->



#35

Dibromofluoromethane

Concen: 52.268 ug/l

RT: 7.75 min Scan# 986

Delta R.T. 0.01 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

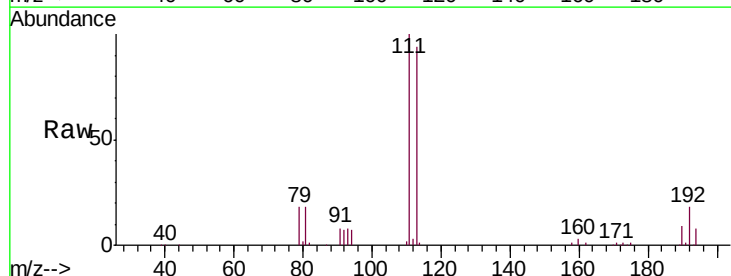
Tgt Ion:113 Resp: 92129

Ion Ratio Lower Upper

113 100

111 103.9 82.9 124.3

192 18.7 14.6 22.0



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

50000

40000

30000

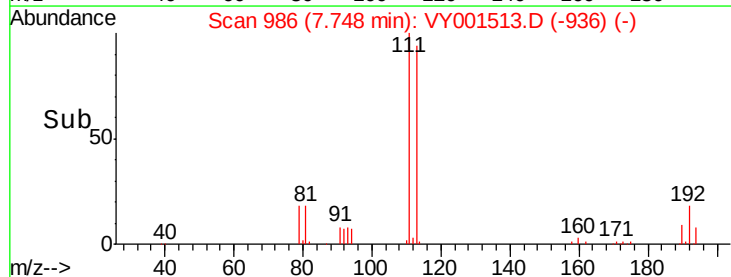
20000

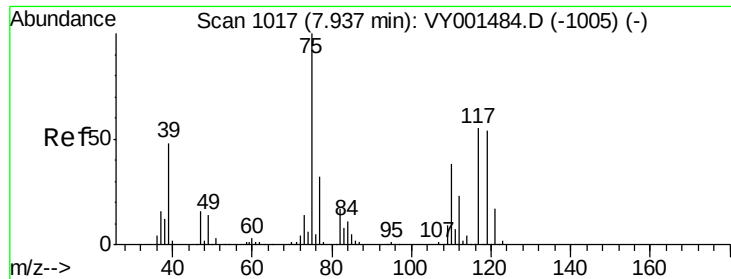
10000

0

7.70 7.80

Time-->

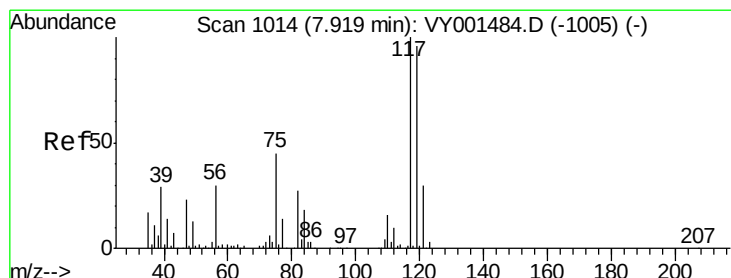
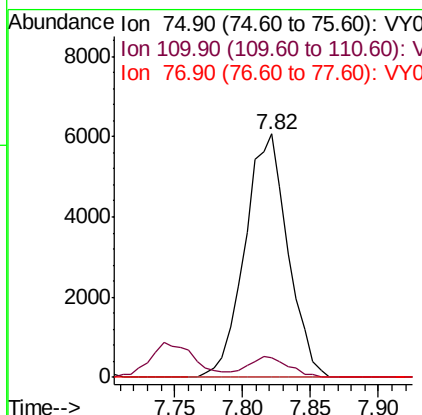
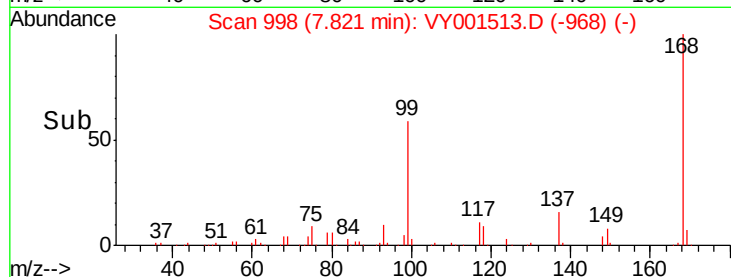
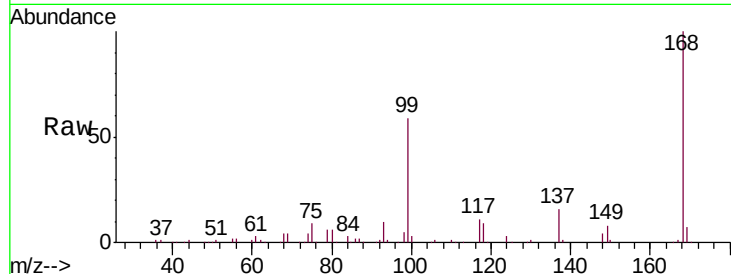




#36
 1,1-Dichloropropene
 Concen: 4.794 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.12 min
 Lab File: VY001513.D
 Acq: 05 Feb 2020 17:34

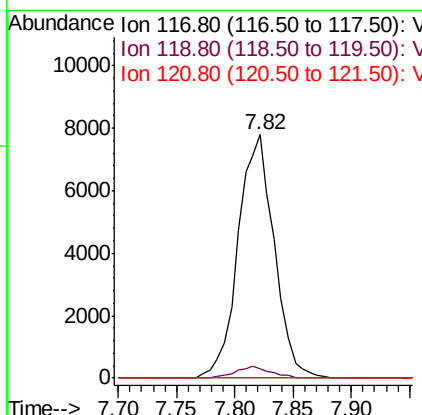
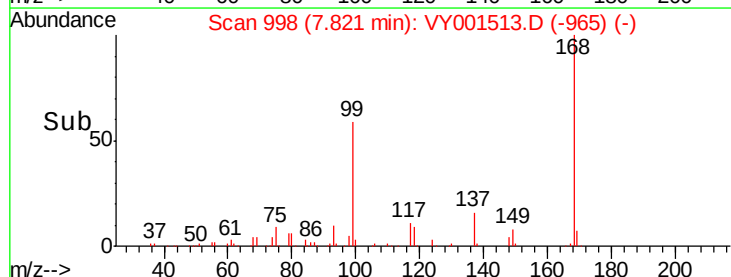
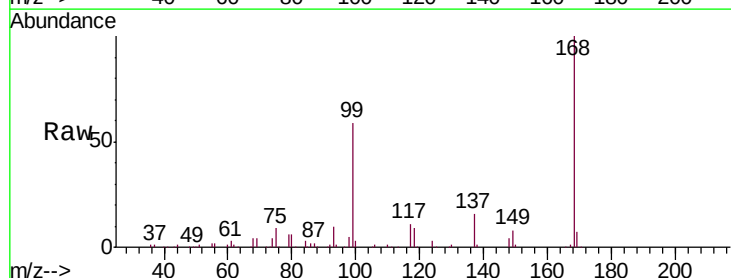
Instrument :
 MSVOA_Y
 ClientSampleId :
 HAM-SB-01-1-2

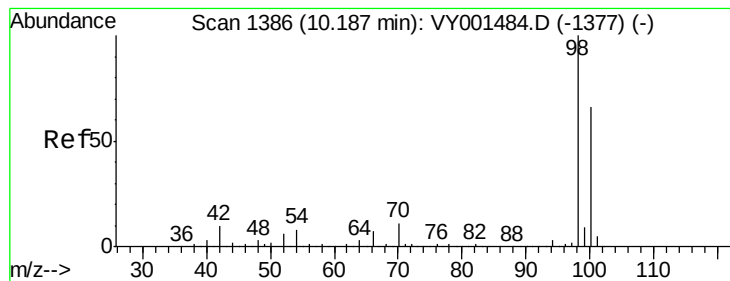
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.2	54.6#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.205 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.10 min
 Lab File: VY001513.D
 Acq: 05 Feb 2020 17:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	76.4	114.6#
121	0.0	24.2	36.4#





#50

Toluene-d8

Concen: 54.855 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampleId :

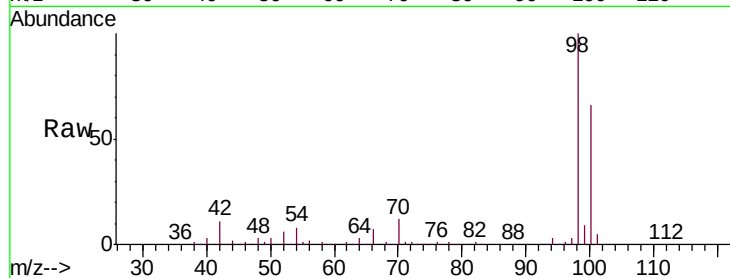
HAM-SB-01-1-2

Tgt Ion: 98 Resp: 365818

Ion Ratio Lower Upper

98 100

100 65.8 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

250000

200000

150000

100000

50000

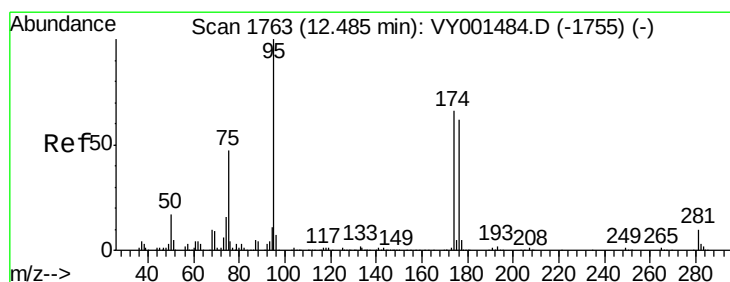
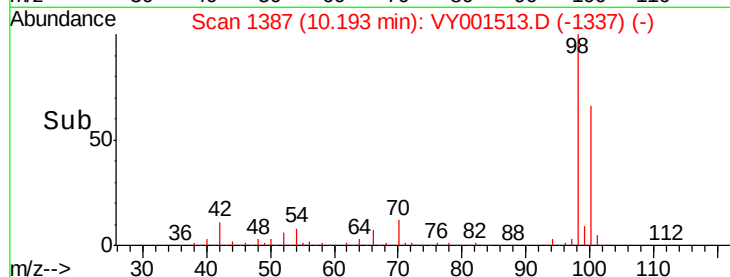
0

10.10

10.20

10.30

Time-->



#62

4-Bromofluorobenzene

Concen: 47.934 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

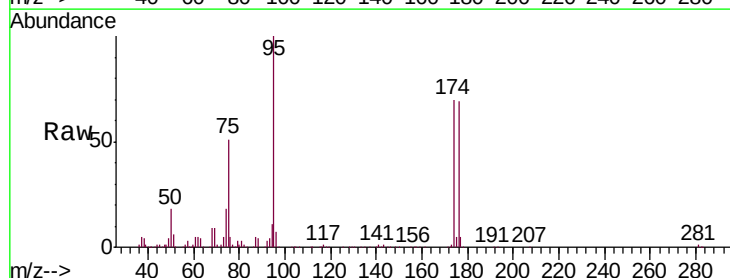
Tgt Ion: 95 Resp: 125929

Ion Ratio Lower Upper

95 100

174 72.4 0.0 141.4

176 70.6 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

80000

60000

40000

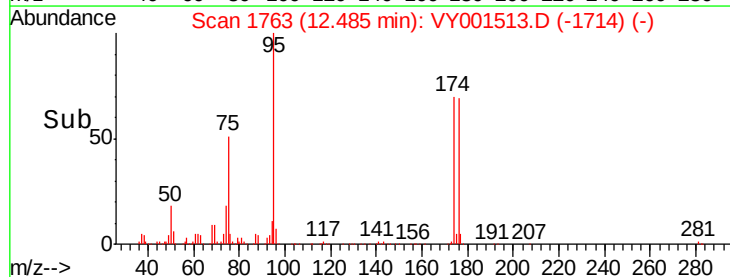
20000

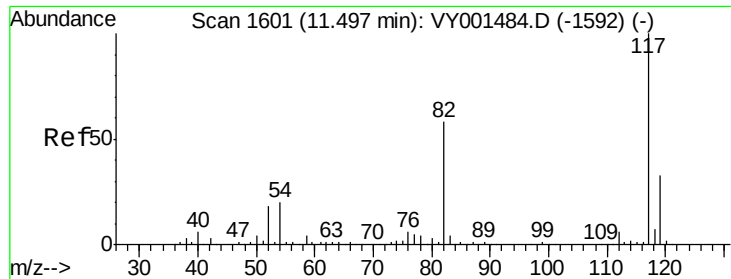
0

12.40

12.50

Time-->

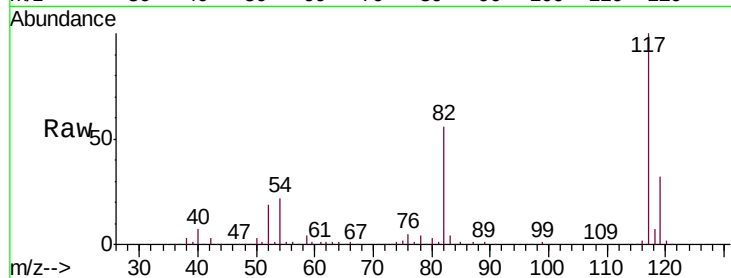




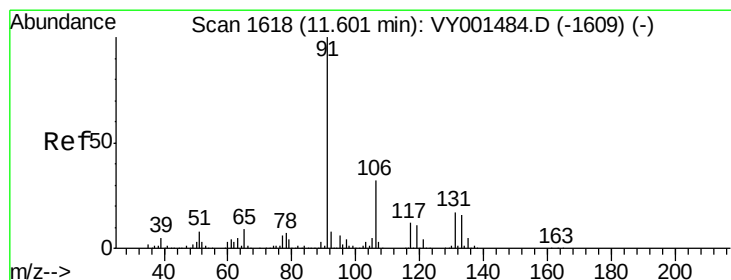
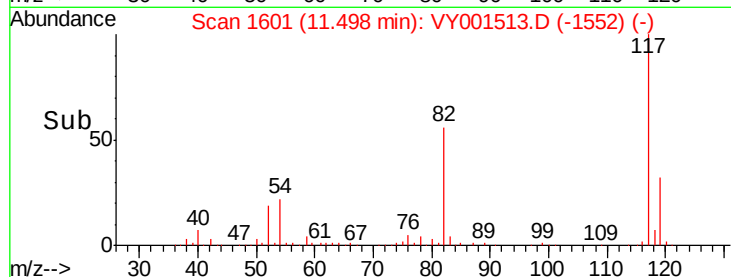
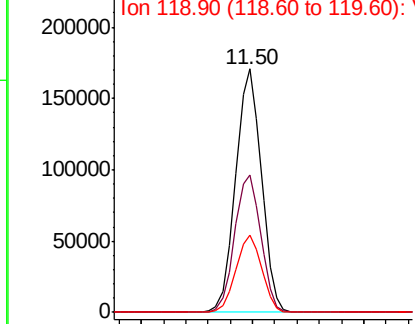
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VY001513.D
Acq: 05 Feb 2020 17:34

Instrument :
MSVOA_Y
ClientSampleId :
HAM-SB-01-1-2

Tgt Ion: 117 Resp: 272768
Ion Ratio Lower Upper
117 100
82 56.5 46.1 69.1
119 31.8 26.1 39.1

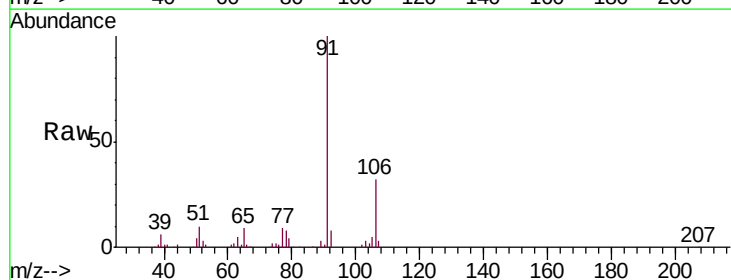


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

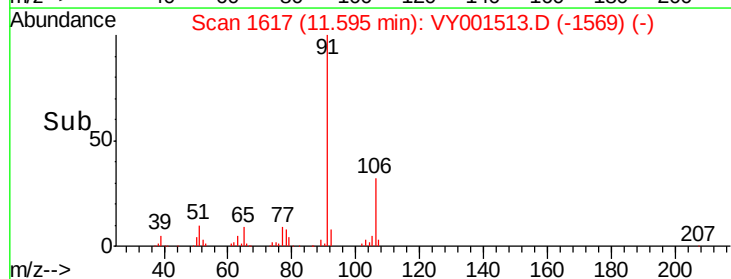
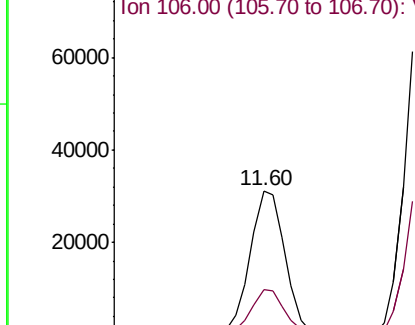


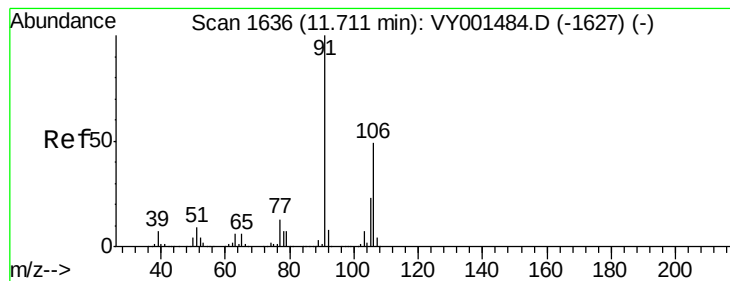
#67
Ethyl Benzene
Concen: 5.020 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001513.D
Acq: 05 Feb 2020 17:34

Tgt Ion: 91 Resp: 49716
Ion Ratio Lower Upper
91 100
106 31.9 25.3 37.9



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





#68

m/p-Xylenes

Concen: 21.883 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampled :

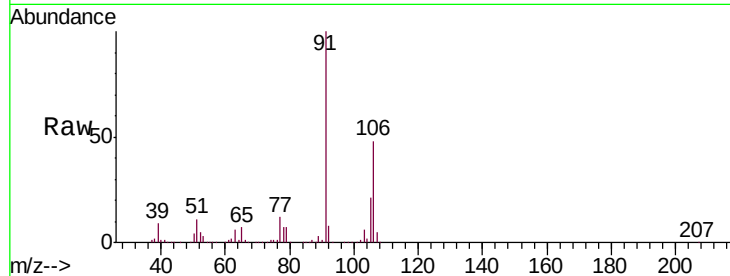
HAM-SB-01-1-2

Tgt Ion:106 Resp: 81349

Ion Ratio Lower Upper

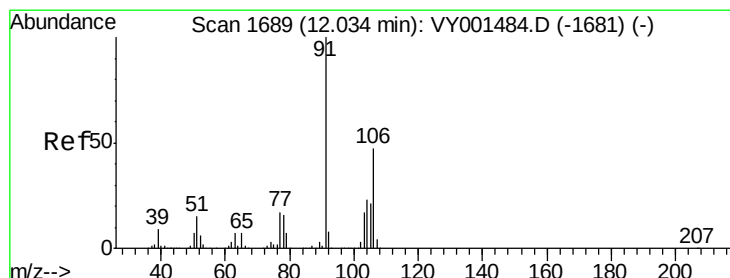
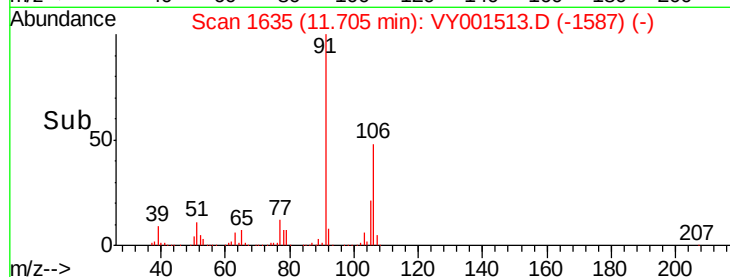
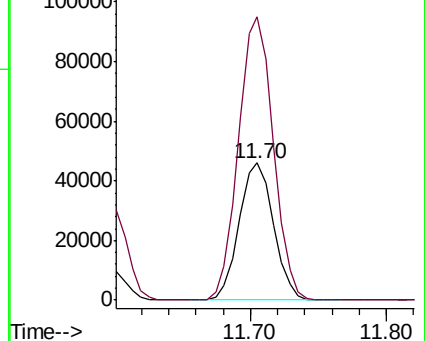
106 100

91 208.6 163.6 245.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 7.210 ug/l

RT: 12.03 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VY001513.D

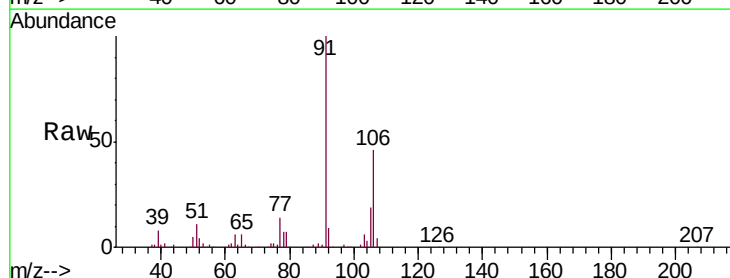
Acq: 05 Feb 2020 17:34

Tgt Ion:106 Resp: 25271

Ion Ratio Lower Upper

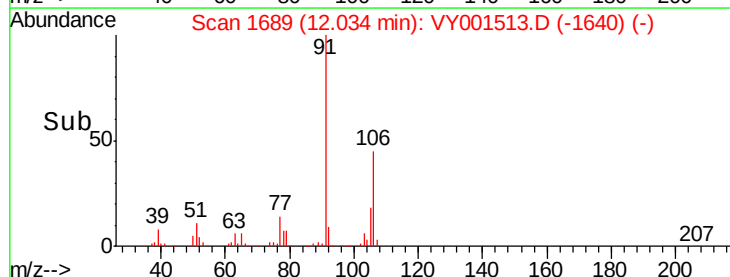
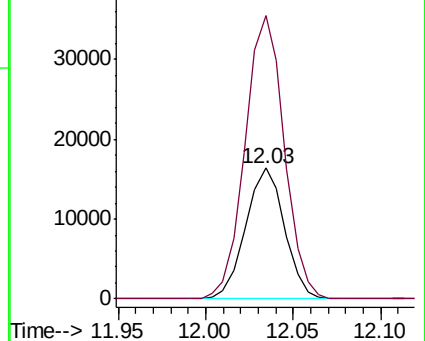
106 100

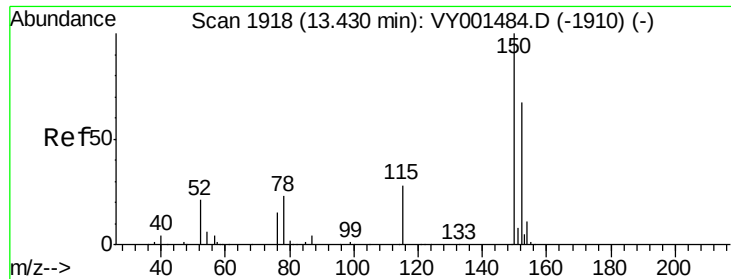
91 218.3 106.0 318.0



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: 13.43 min Scan# 1918

Delta R.T. 0.00 min

Lab File: VY001513.D

Acq: 05 Feb 2020 17:34

Instrument :

MSVOA_Y

ClientSampleId :

HAM-SB-01-1-2

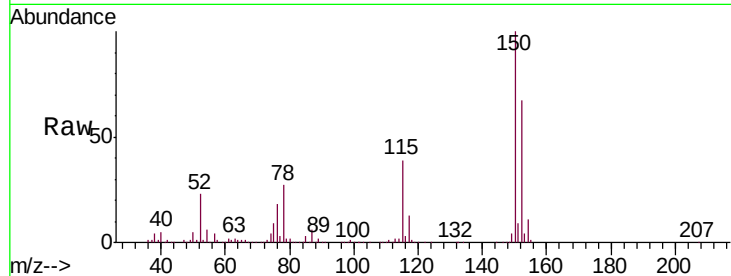
Tgt Ion:152 Resp: 108308

Ion Ratio Lower Upper

152 100

115 61.9 31.4 94.3

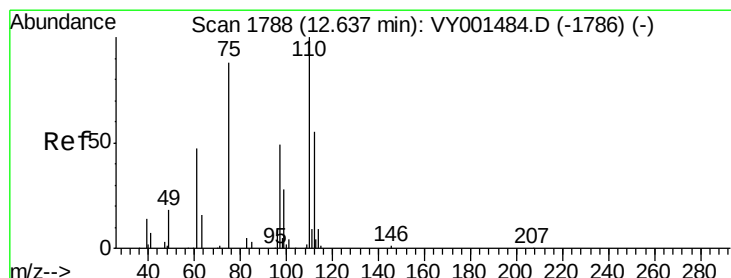
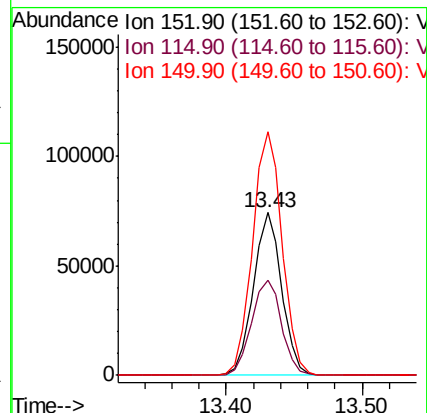
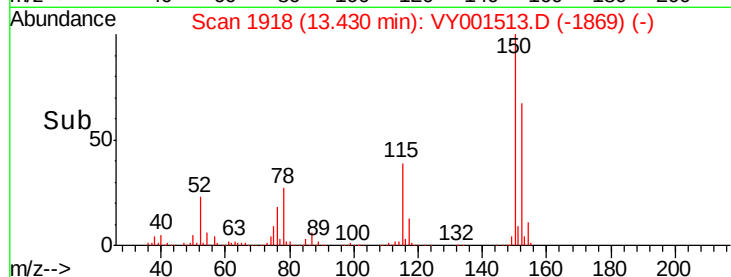
150 156.1 0.0 346.8



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: 54.181 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001513.D

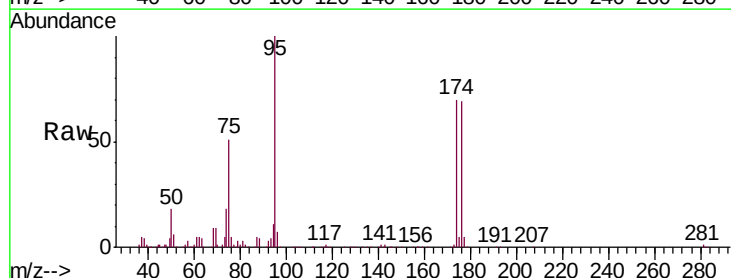
Acq: 05 Feb 2020 17:34

Tgt Ion: 75 Resp: 63107

Ion Ratio Lower Upper

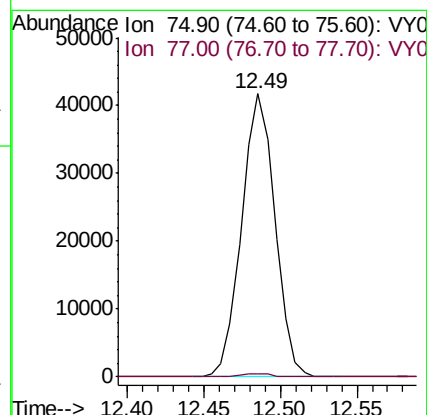
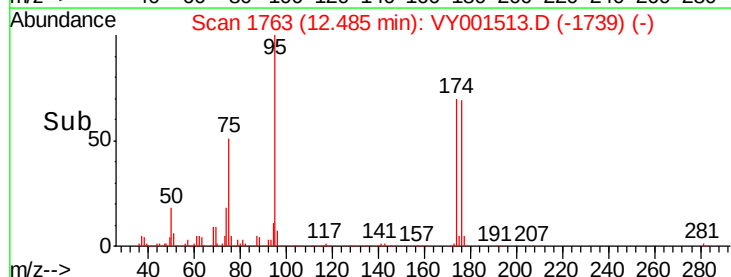
75 100

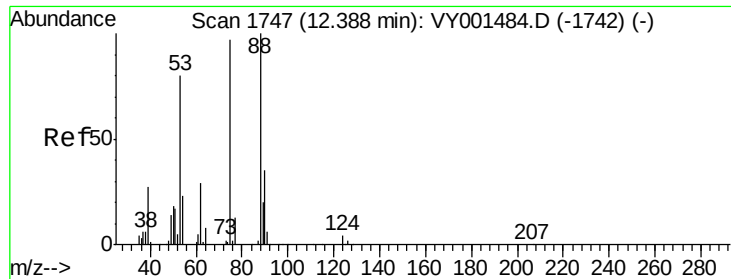
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

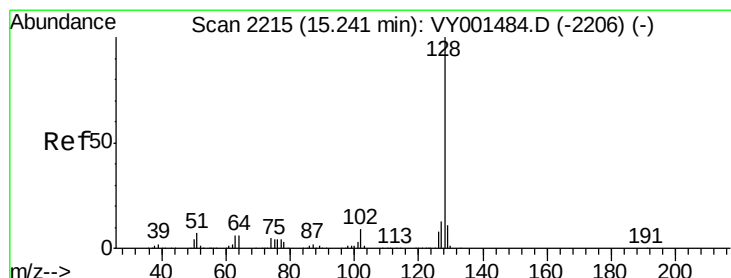
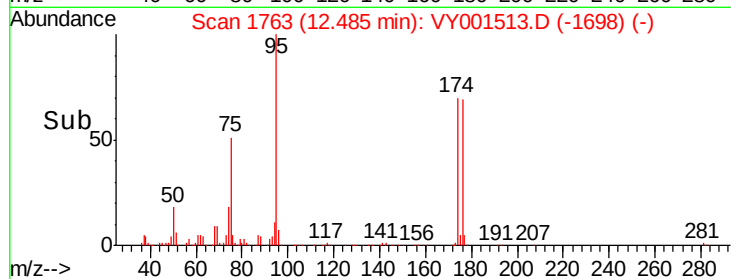
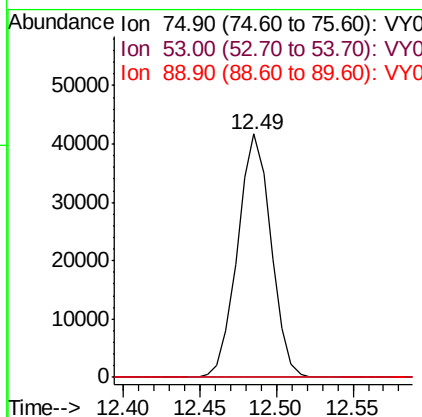
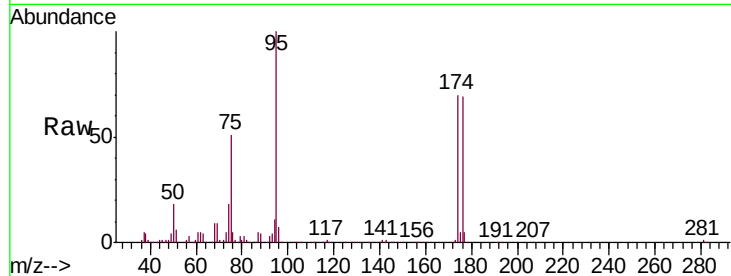




#81
trans-1,4-Dichloro-2-butene
Concen: 104.837 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. 0.10 min
Lab File: VY001513.D
Acq: 05 Feb 2020 17:34

Instrument :
MSVOA_Y
ClientSampleId :
HAM-SB-01-1-2

Tgt Ion: 75 Resp: 63107
Ion Ratio Lower Upper
75 100
53 0.0 67.7 101.5#
89 0.1 34.6 52.0#



#95
Naphthalene
Concen: 3.024 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VY001513.D
Acq: 05 Feb 2020 17:34

Tgt Ion: 128 Resp: 14868
Ion Ratio Lower Upper
128 100
127 12.6 10.1 15.1
129 11.5 8.9 13.3

