

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110619\
 Data File : VY000559.D
 Acq On : 06 Nov 2019 18:07
 Operator : SY/MD
 Sample : K5725-04
 Misc : 3.85G/5ML/MSVOA Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SO-4

Quant Time: Nov 07 04:58:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:30:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	170299	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	297410	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	265975	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	135629	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	94706	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	
35) Dibromofluoromethane	7.73	113	87456	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
50) Toluene-d8	10.18	98	352044	53.14	ug/l	0.00
Spiked Amount			Recovery	=	106.28%	
62) 4-Bromofluorobenzene	12.48	95	127788	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	

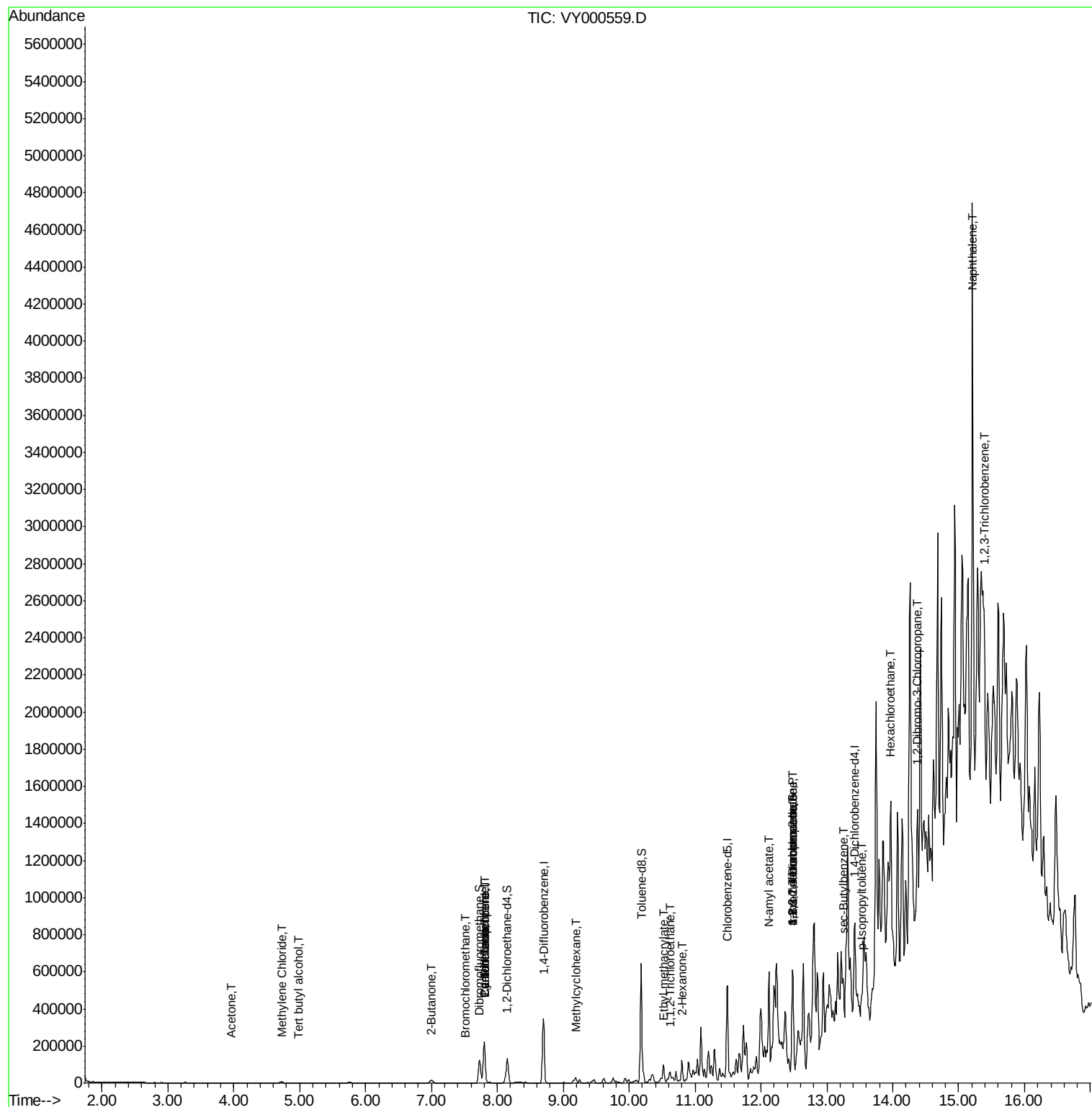
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	228	1.329	ug/l #	72
16) Acetone	3.96	43	1972	4.060	ug/l #	83
20) Methylene Chloride	4.73	84	5193	2.495	ug/l #	77
25) 2-Butanone	6.99	43	1126	1.453	ug/l #	49
28) Bromochloromethane	7.51	49	57	4.128	ug/l #	14
31) Cyclohexane	7.80	56	4999	1.465	ug/l #	24
36) 1,1-Dichloropropene	7.80	75	13115	4.665	ug/l #	49
38) Carbon Tetrachloride	7.80	117	15918	5.884	ug/l #	13
39) Methylcyclohexane	9.19	83	10476	2.884	ug/l	90
55) 1,1,2-Trichloroethane	10.61	97	21256	13.172	ug/l #	18
56) Ethyl methacrylate	10.52	69	7674	3.355	ug/l #	1
59) 2-Hexanone	10.80	43	46120	37.969	ug/l #	29
74) N-amyl acetate	12.12	43	123160	42.900	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.48	83	7933	3.997	ug/l	65
76) 1,2,3-Trichloropropane	12.48	75	65999	42.737	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	65999	95.821	ug/l #	18
85) sec-Butylbenzene	13.25	105	11416	1.124	ug/l	82
86) p-Isopropyltoluene	13.52	119	29271	3.234	ug/l #	85
90) Hexachloroethane	13.97	117	31072	18.569	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.38	75	2107	5.998	ug/l #	11
95) Naphthalene	15.20	128	25591	4.191	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.39	180	15431	6.253	ug/l #	1

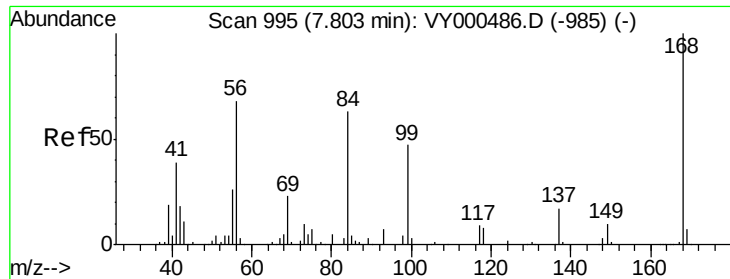
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:30:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Instrument :

MSVOA_Y

ClientSampleId :

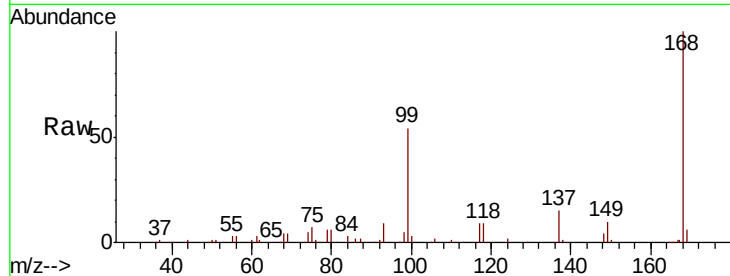
SO-4

Tot Ion:168 Resp: 170299

Ion Ratio Lower Upper

168 100

99 54.5 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY000486.D (-985) (-)

7.80

80000

60000

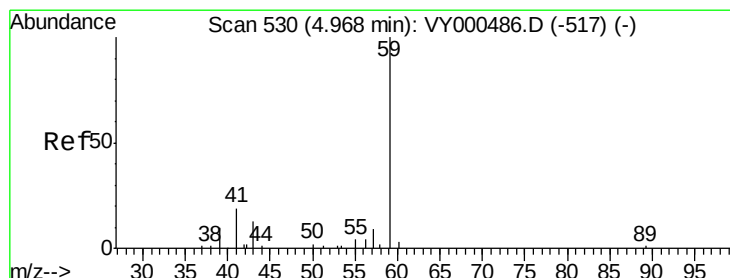
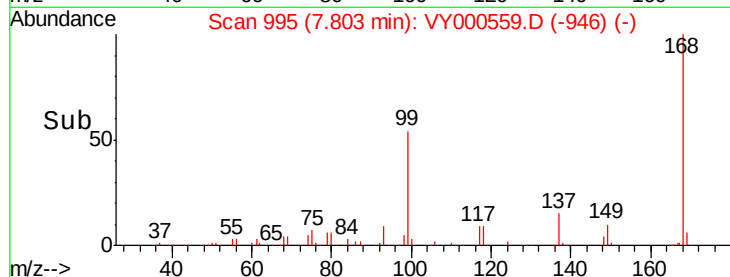
40000

20000

0

7.70 7.80 7.90

Time-->



#11

Tert butyl alcohol

Concen: 1.329 ug/l

RT: 4.98 min Scan# 532

Delta R.T. 0.01 min

Lab File: VY000559.D

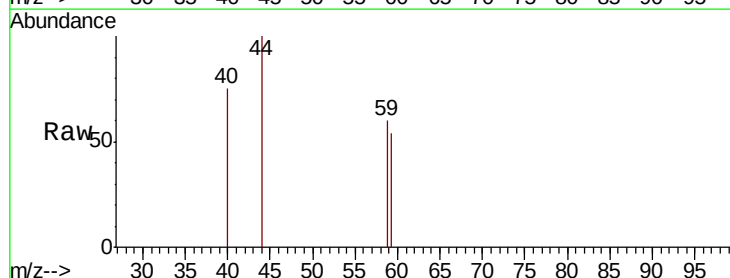
Acq: 06 Nov 2019 18:07

Tgt Ion: 59 Resp: 228

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VY000486.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY000486.D (-517) (-)

4.98

250

200

150

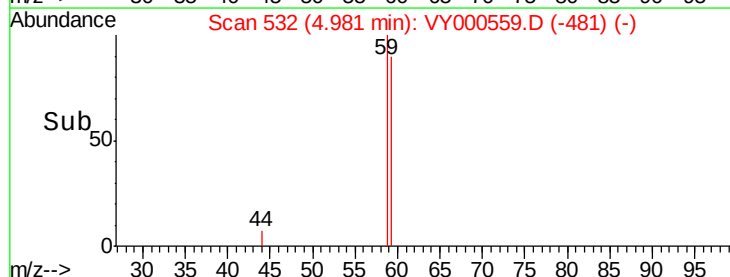
100

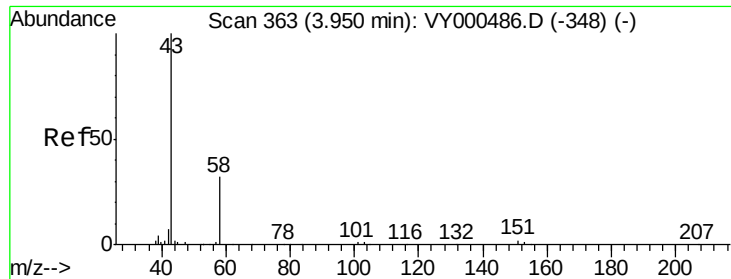
50

0

4.96 4.98 5.00

Time-->





#16

Acetone

Concen: 4.060 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Instrument :

MSVOA_Y

ClientSampleId :

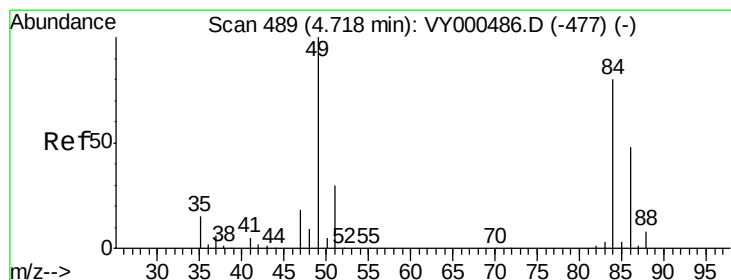
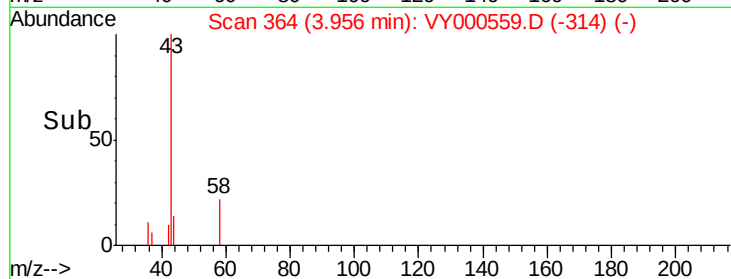
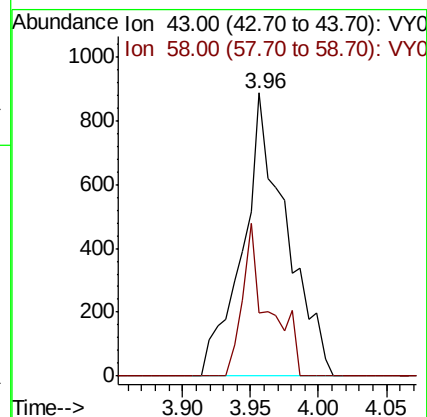
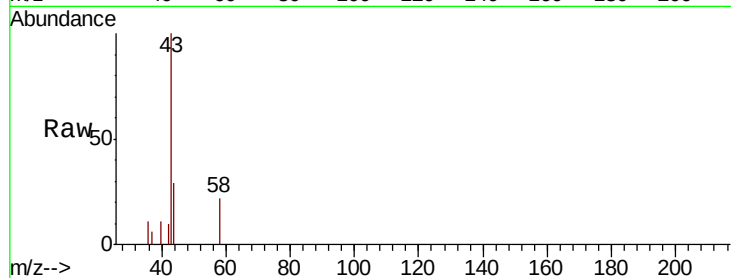
SO-4

Tot Ion: 43 Resp: 1972

Ion Ratio Lower Upper

43 100

58 22.4 25.8 38.6#



#20

Methylene Chloride

Concen: 2.495 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Tgt Ion: 84 Resp: 5193

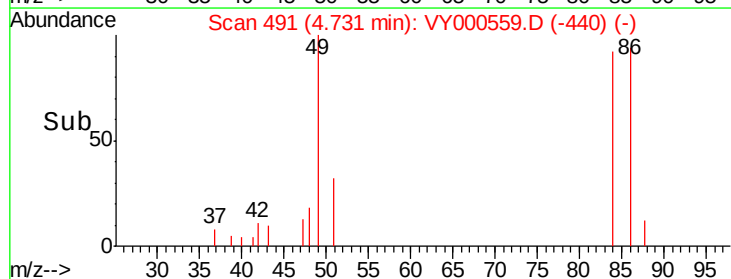
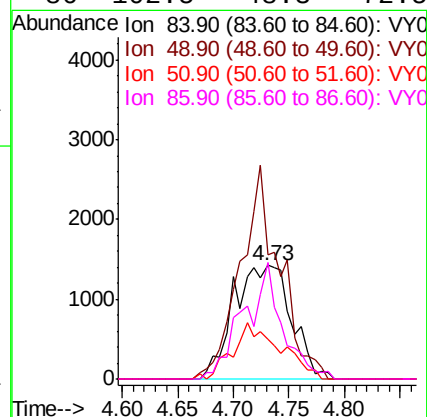
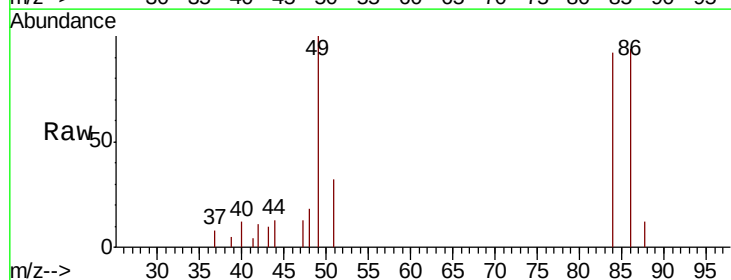
Ion Ratio Lower Upper

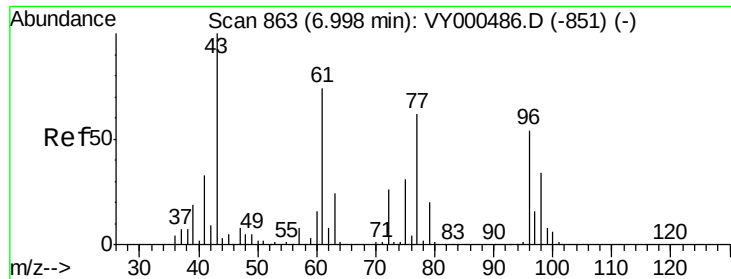
84 100

49 109.2 100.2 150.4

51 35.3 29.6 44.4

86 102.5 48.3 72.5#





#25

2-Butanone

Concen: 1.453 ug/l

RT: 6.99 min Scan# 861

Delta R.T. -0.01 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Instrument :

MSVOA_Y

ClientSampled :

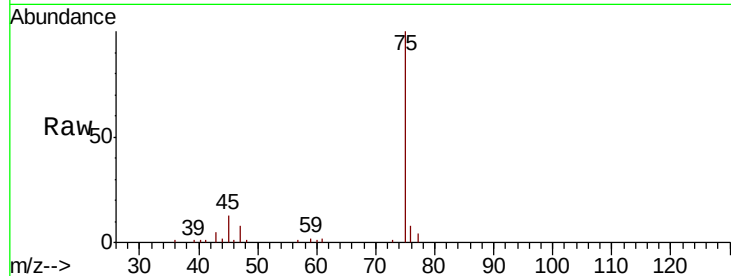
SO-4

Tot Ion: 43 Resp: 1126

Ion Ratio Lower Upper

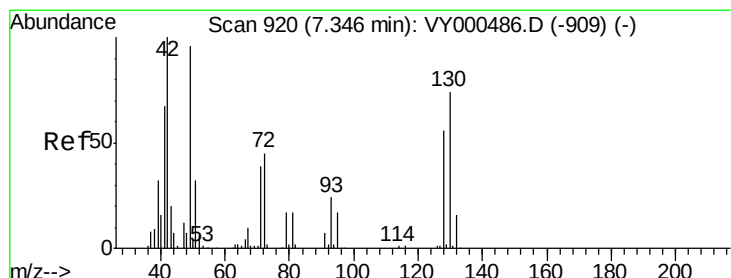
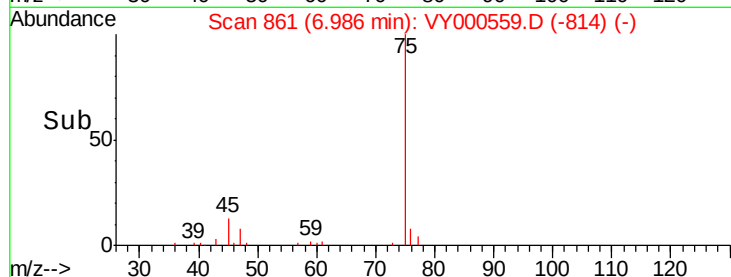
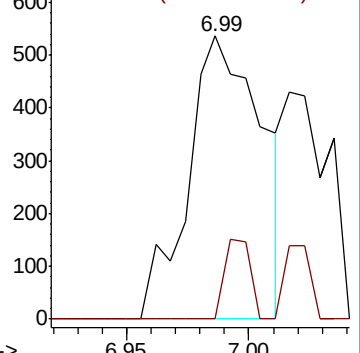
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#28

Bromochloromethane

Concen: 4.128 ug/l

RT: 7.51 min Scan# 947

Delta R.T. 0.17 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

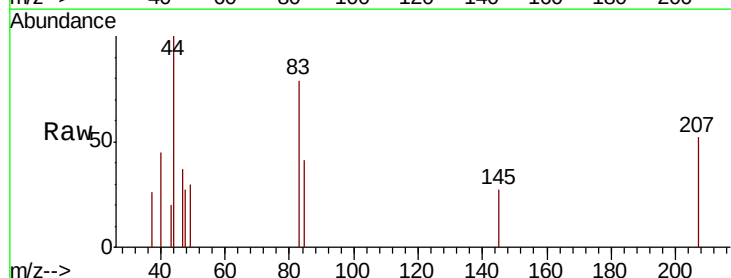
Tgt Ion: 49 Resp: 57

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

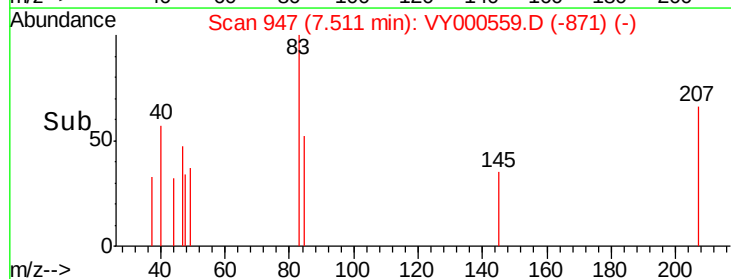
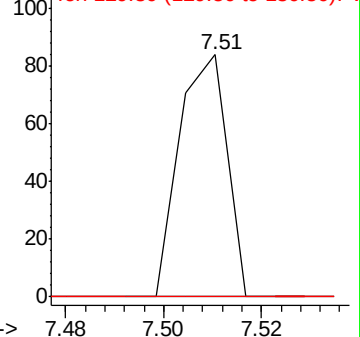
130 0.0 59.4 89.0#

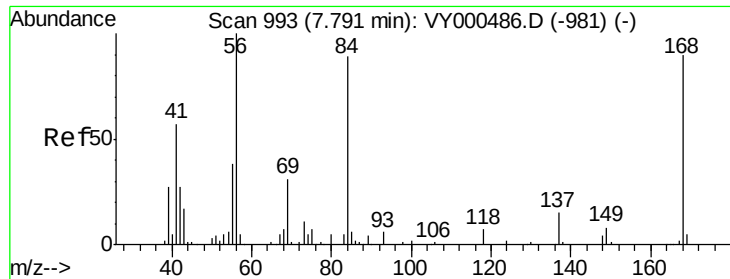


Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

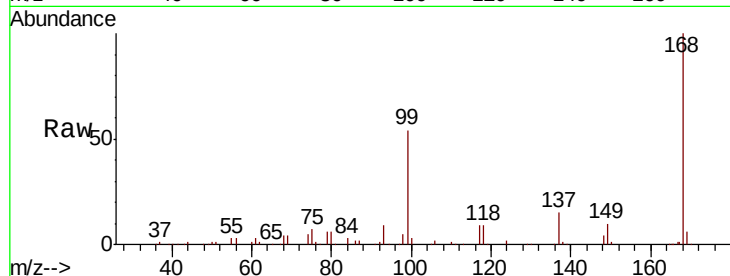




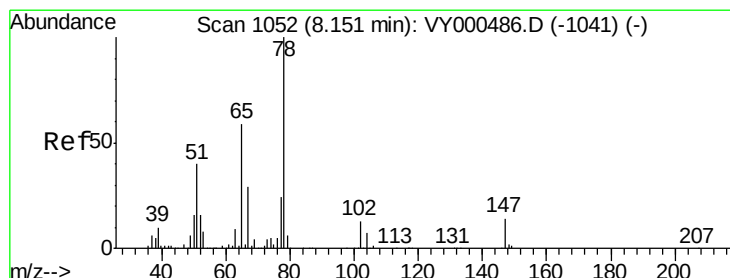
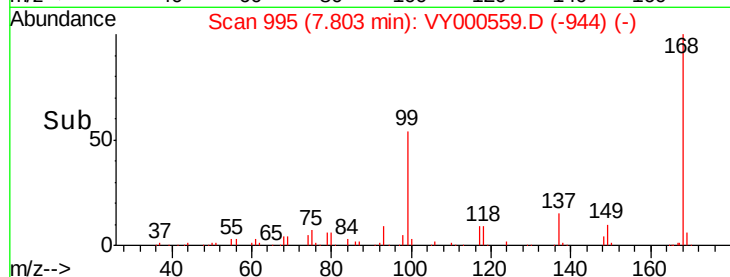
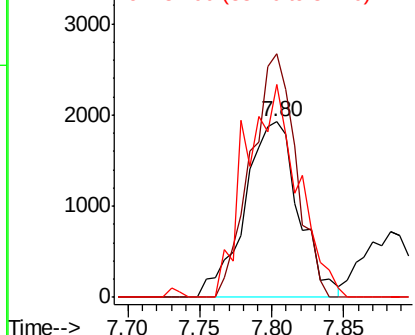
#31
Cyclohexane
Concen: 1.465 ug/l
RT: 7.80 min Scan# 995
Delta R.T. 0.01 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Instrument :
MSVOA_Y
ClientSampled :
SO-4

Tot Ion: 56 Resp: 4999
Ion Ratio Lower Upper
56 100
69 138.9 25.0 37.6#
84 121.6 71.4 107.2#

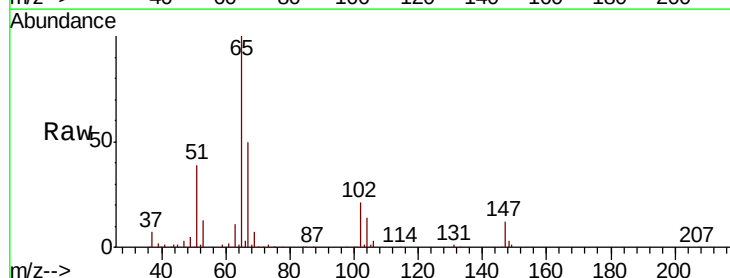


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

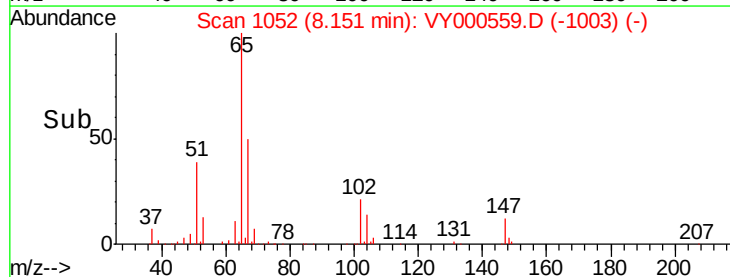
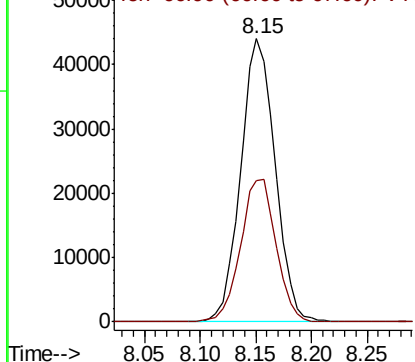


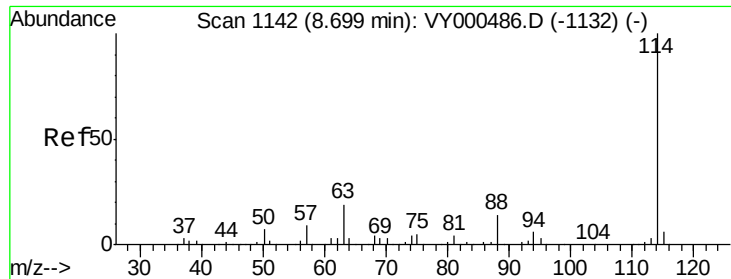
#33
1,2-Dichloroethane-d4
Concen: 53.738 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Tgt Ion: 65 Resp: 94706
Ion Ratio Lower Upper
65 100
67 51.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

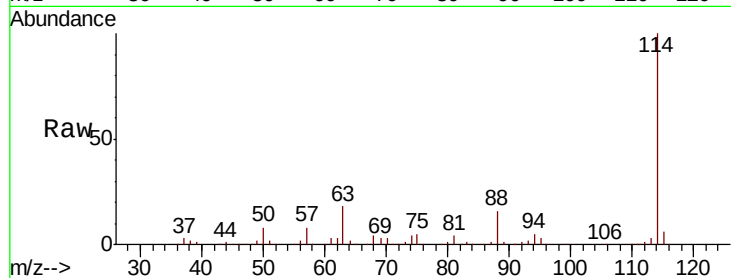




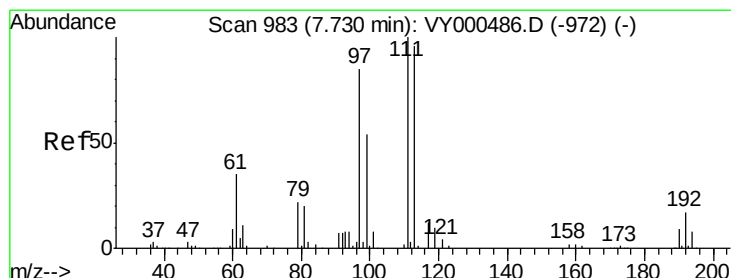
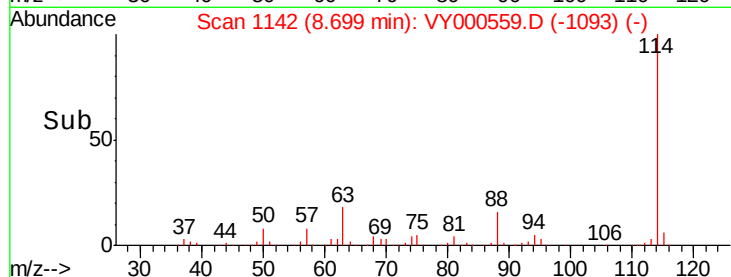
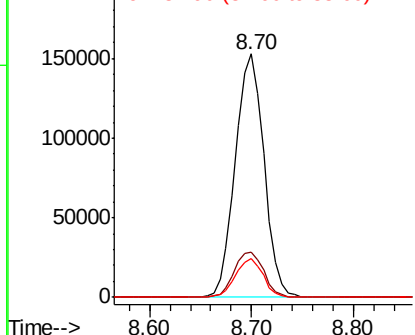
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.70 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Instrument :
MSVOA_Y
ClientSampleId :
SO-4

Tot Ion:114 Resp: 297410
Ion Ratio Lower Upper
114 100
63 18.3 0.0 38.0
88 16.2 0.0 28.6

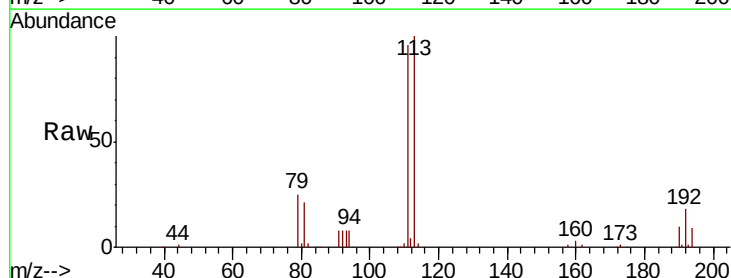


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VY0
Ion 87.90 (87.60 to 88.60): VY0

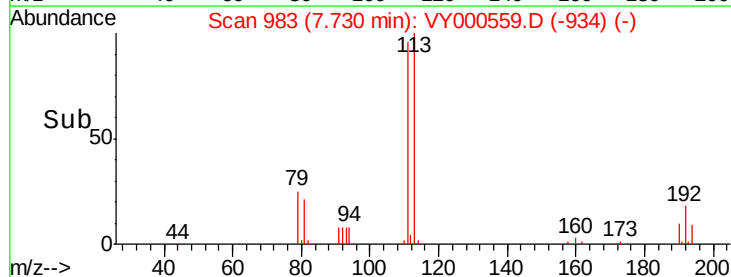
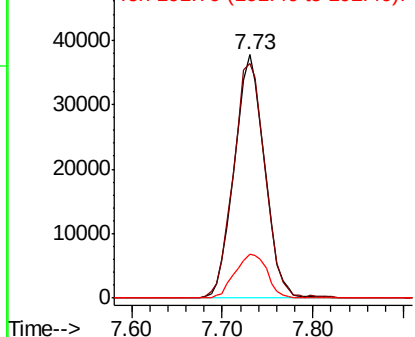


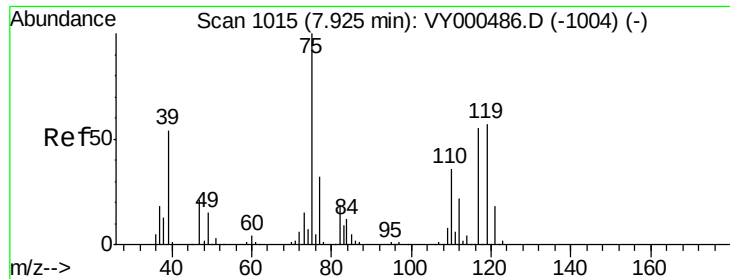
#35
Dibromofluoromethane
Concen: 50.090 ug/l
RT: 7.73 min Scan# 983
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Tgt Ion:113 Resp: 87456
Ion Ratio Lower Upper
113 100
111 100.2 81.7 122.5
192 19.1 15.0 22.4



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

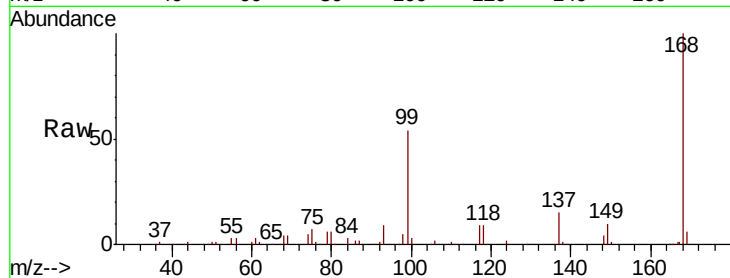




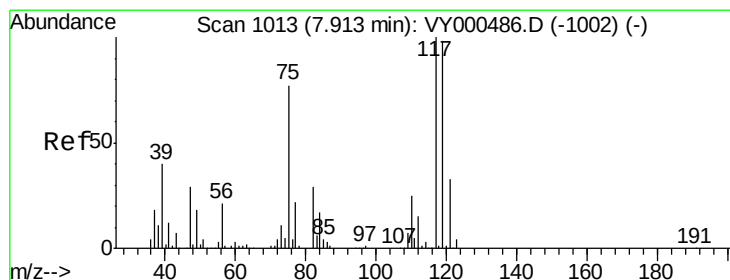
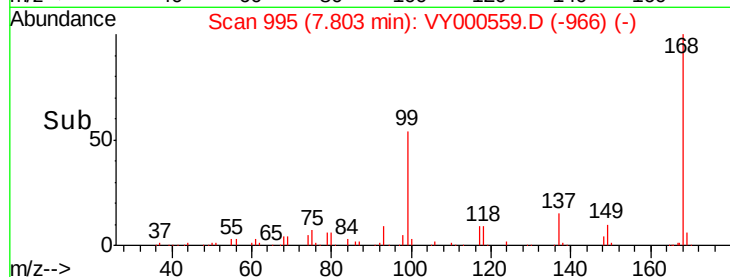
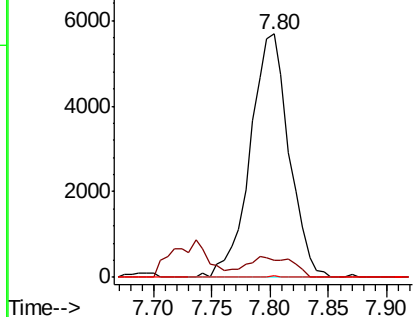
#36
 1,1-Dichloropropene
 Concen: 4.665 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY000559.D
 Acq: 06 Nov 2019 18:07

Instrument :
 MSVOA_Y
 ClientSampleId :
 SO-4

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.1	54.1#
77	0.1	25.0	37.6#

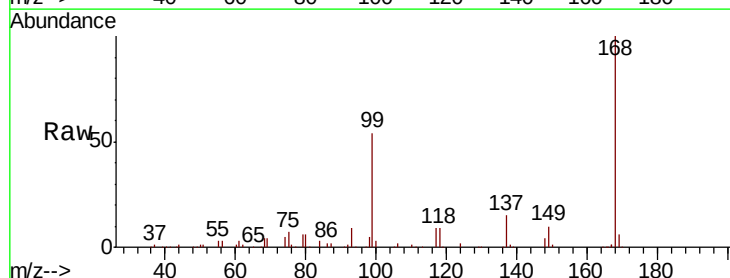


Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): VY0
 Ion 76.90 (76.60 to 77.60): VY0

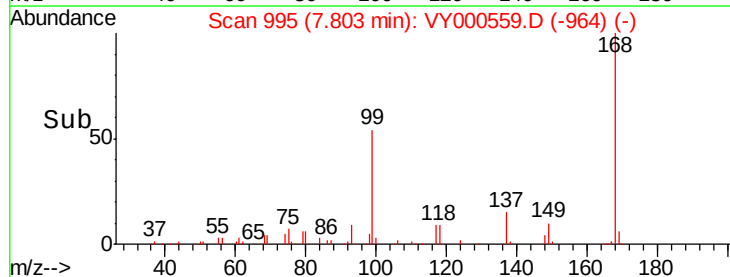
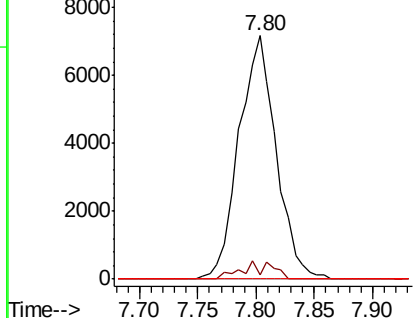


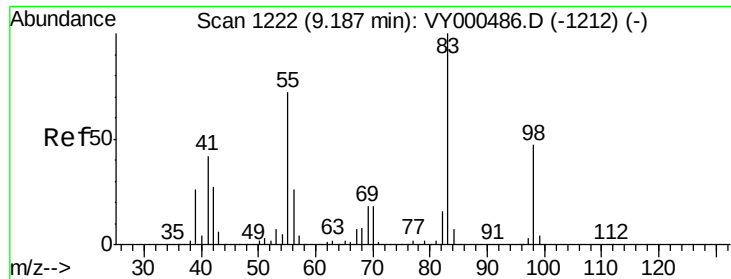
#38
 Carbon Tetrachloride
 Concen: 5.884 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.11 min
 Lab File: VY000559.D
 Acq: 06 Nov 2019 18:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	2.0	78.0	117.0#
121	0.0	26.6	40.0#



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

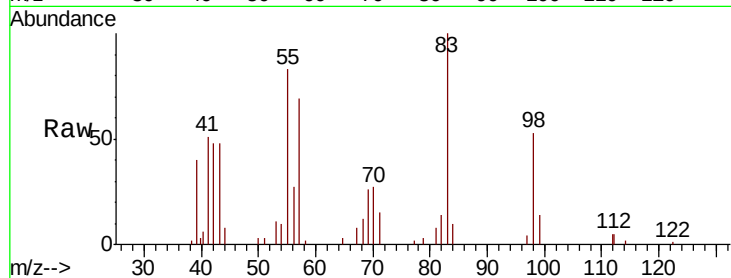




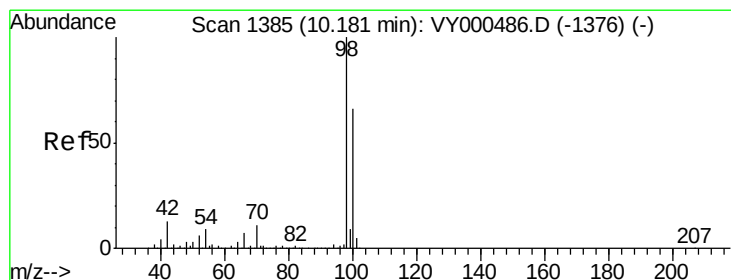
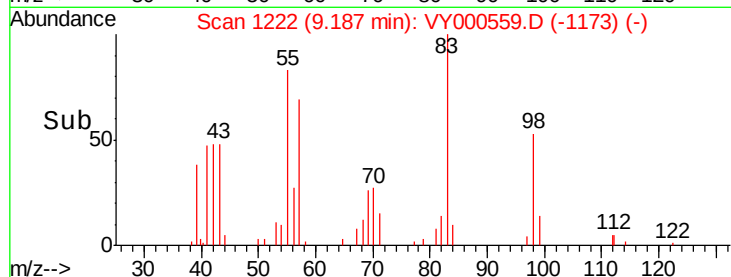
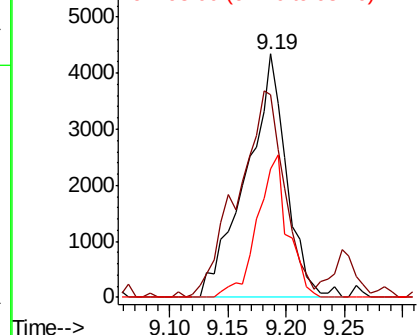
#39
Methylcyclohexane
Concen: 2.884 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Instrument :
MSVOA_Y
ClientSampleId :
SO-4

Tot Ion: 83 Resp: 10476
Ion Ratio Lower Upper
83 100
55 82.0 57.5 86.3
98 52.7 38.0 57.0

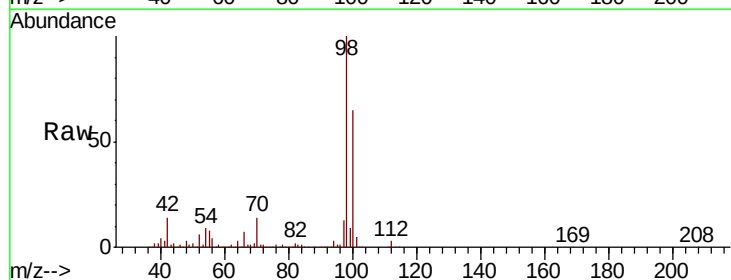


Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

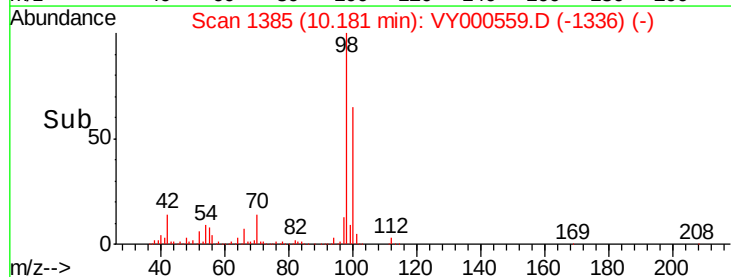
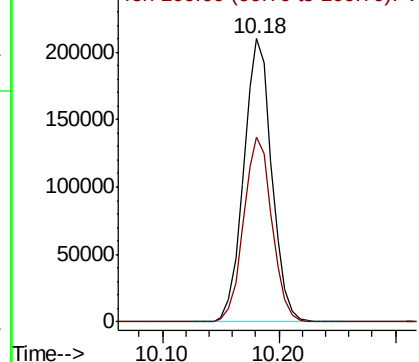


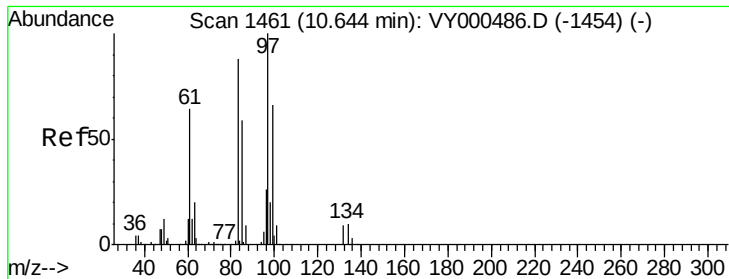
#50
Toluene-d8
Concen: 53.138 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Tgt Ion: 98 Resp: 352044
Ion Ratio Lower Upper
98 100
100 65.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





#55

1,1,2-Trichloroethane

Concen: 13.172 ug/l

RT: 10.61 min Scan# 1456

Delta R.T. -0.03 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Instrument :

MSVOA_Y

ClientSampled :

SO-4

Tot Ion: 97 Resp: 21256

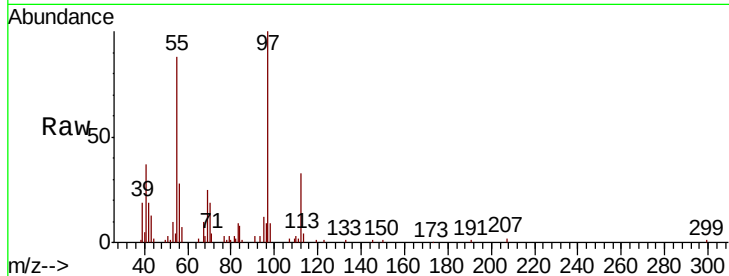
Ion Ratio Lower Upper

97 100

83 9.0 70.2 105.4#

85 1.1 46.9 70.3#

99 0.0 52.6 78.8#



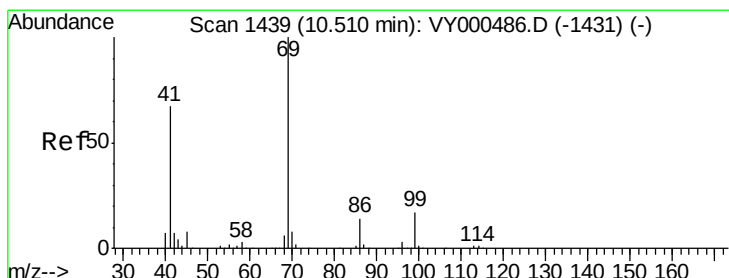
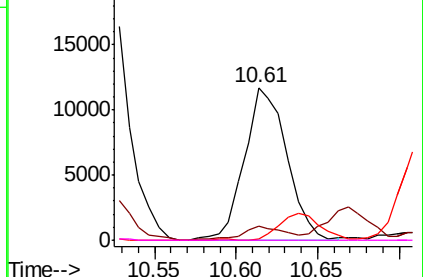
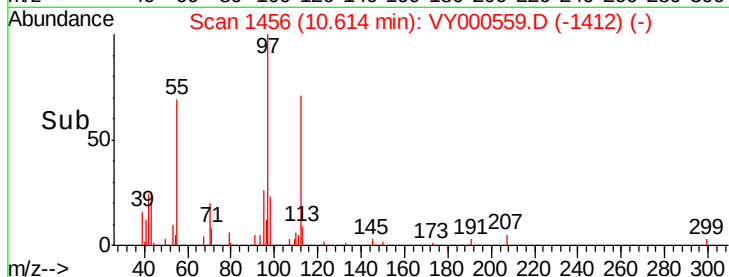
Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Time-->



#56

Ethyl methacrylate

Concen: 3.355 ug/l

RT: 10.52 min Scan# 1441

Delta R.T. 0.01 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

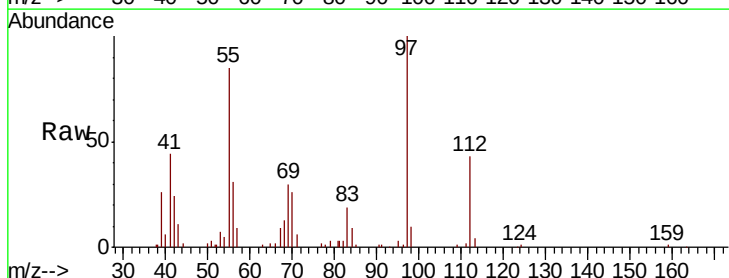
Tgt Ion: 69 Resp: 7674

Ion Ratio Lower Upper

69 100

41 229.2 53.3 79.9#

39 127.7 28.0 42.0#

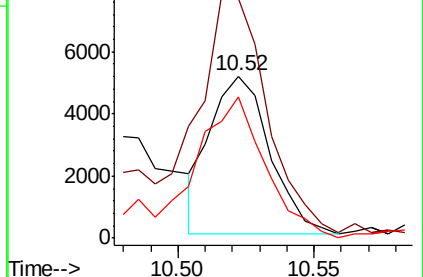
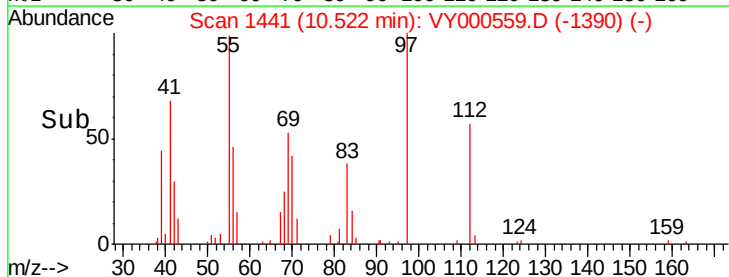


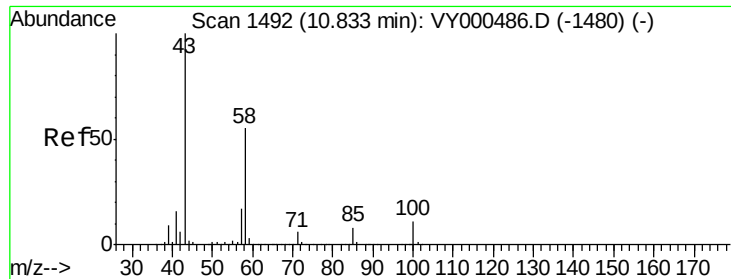
Abundance Ion 69.00 (68.70 to 69.70): VY0

Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Time-->

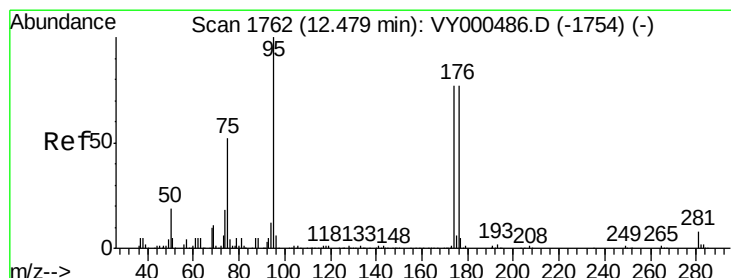
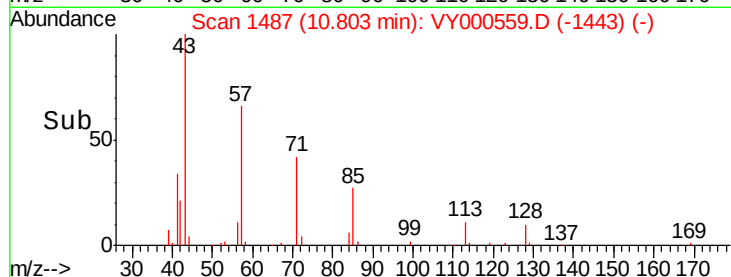
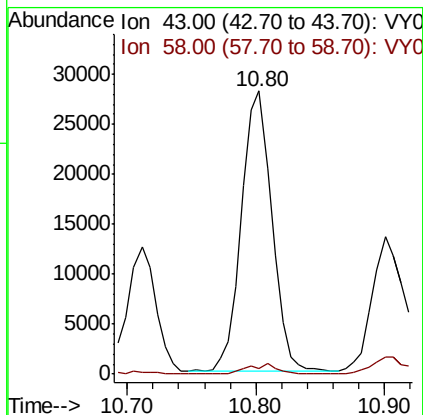
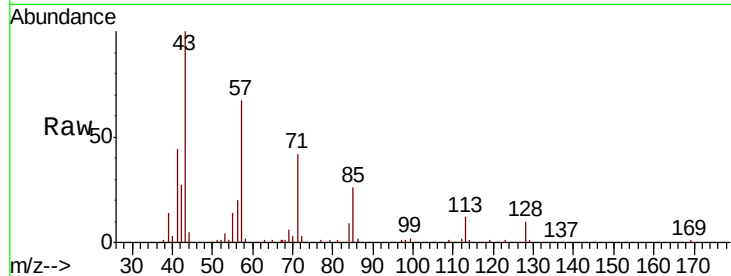




#59
2-Hexanone
Concen: 37.969 ug/l
RT: 10.80 min Scan# 1487
Delta R.T. -0.03 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

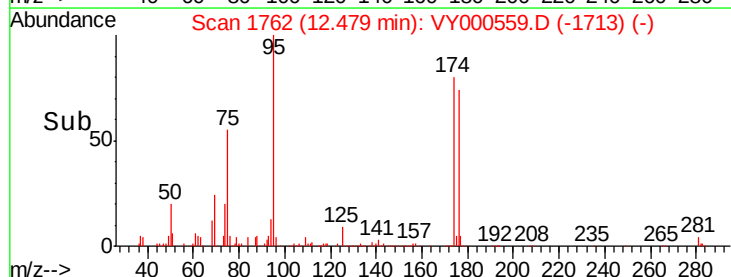
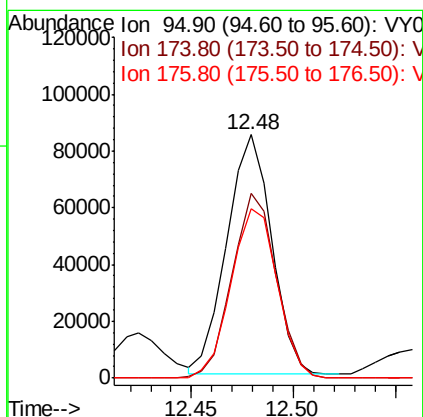
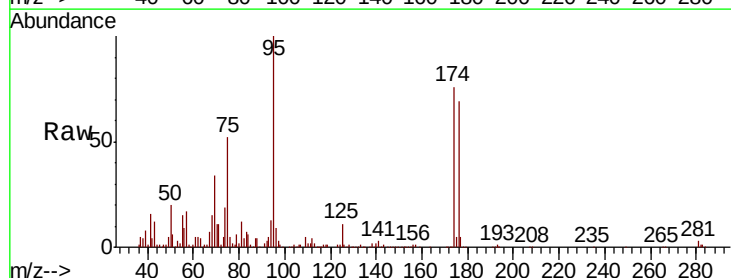
Instrument :
MSVOA_Y
ClientSampleId :
SO-4

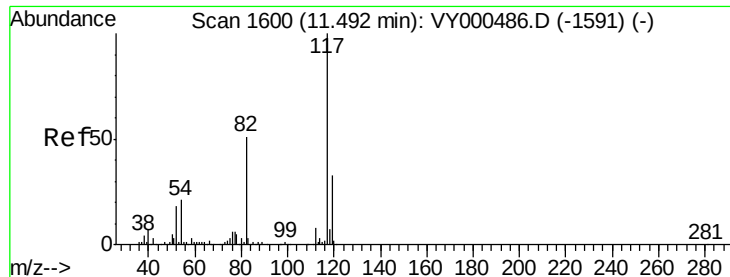
Tot Ion: 43 Resp: 46120
Ion Ratio Lower Upper
43 100
58 3.5 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 50.667 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Tgt Ion: 95 Resp: 127788
Ion Ratio Lower Upper
95 100
174 76.9 0.0 161.6
176 73.6 0.0 157.8

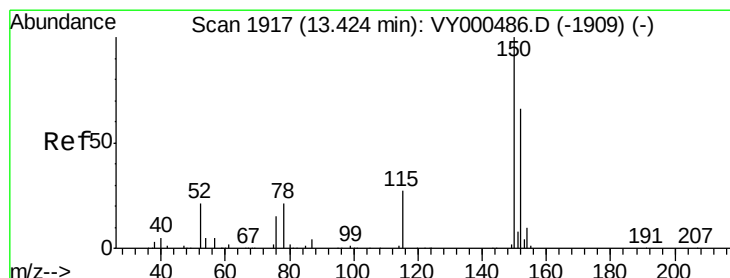
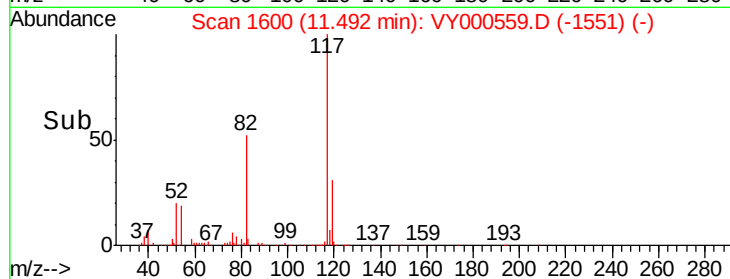
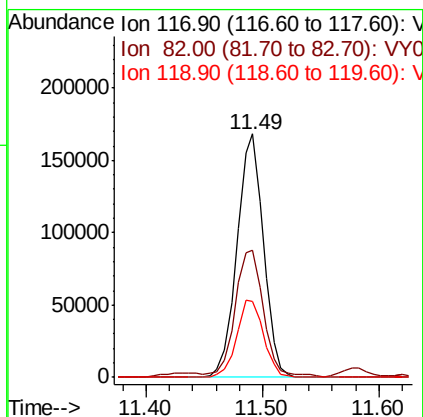
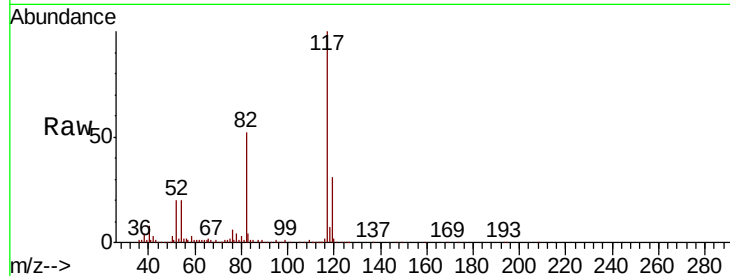




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

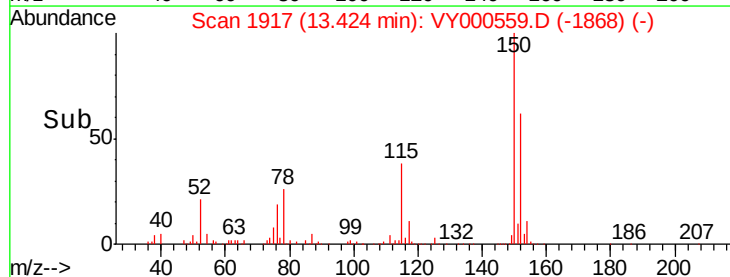
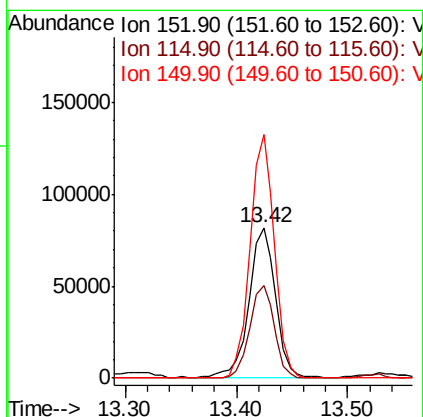
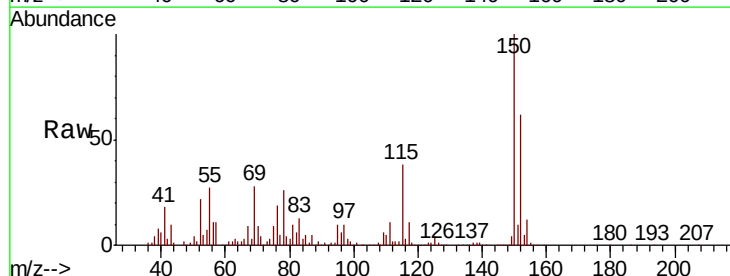
Instrument :
MSVOA_Y
ClientSampleId :
SO-4

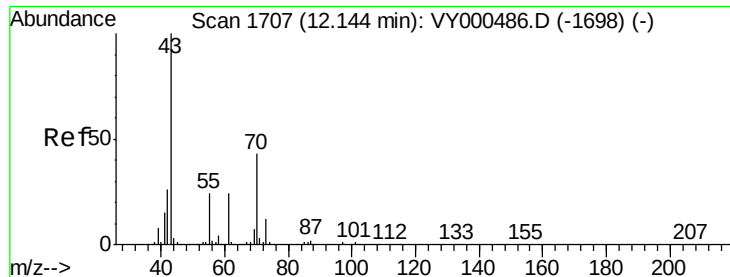
Tot Ion:117 Resp: 265975
Ion Ratio Lower Upper
117 100
82 50.3 40.8 61.2
119 31.0 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Tgt Ion:152 Resp: 135629
Ion Ratio Lower Upper
152 100
115 56.8 29.1 87.4
150 147.2 0.0 348.8

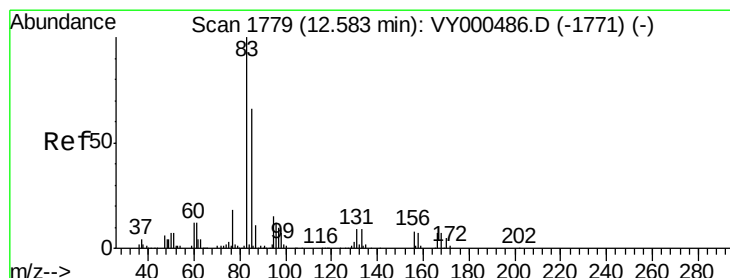
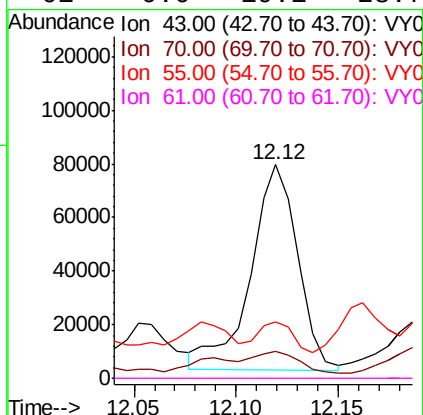
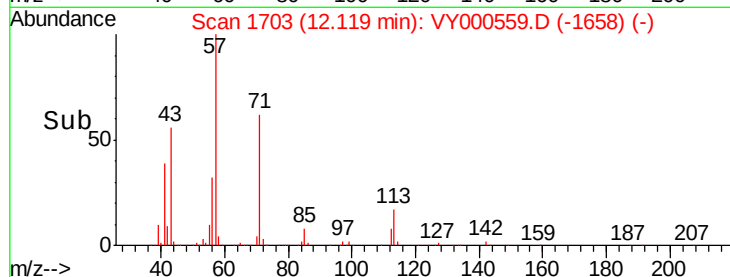
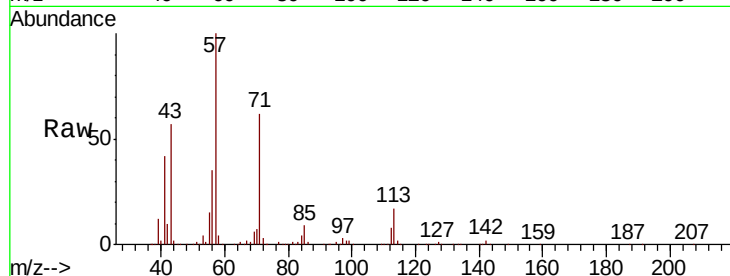




#74
N-amvl acetate
Concen: 42.900 ug/l
RT: 12.12 min Scan# 1703
Delta R.T. -0.02 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

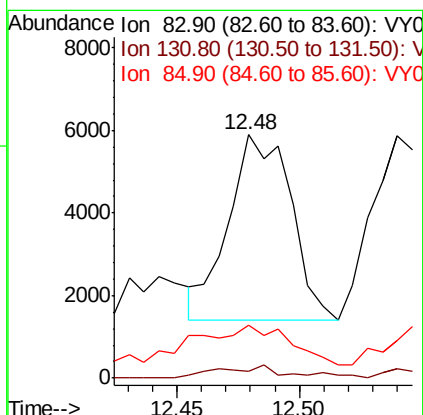
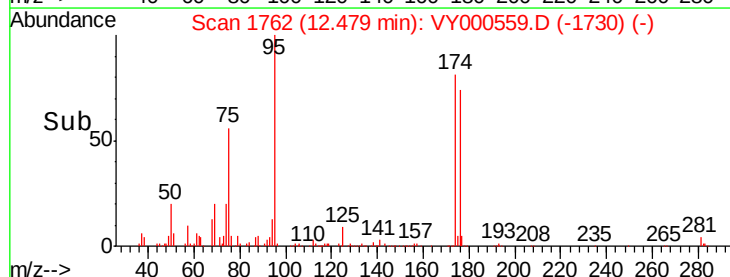
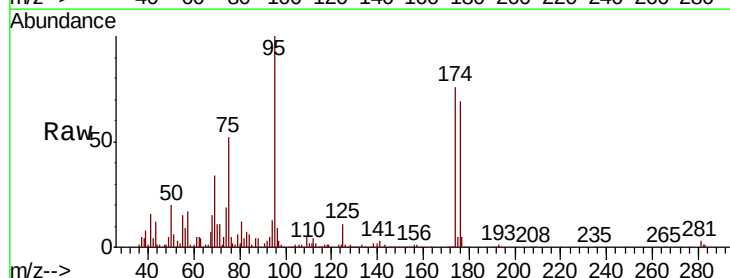
Instrument :
MSVOA_Y
ClientSampleId :
SO-4

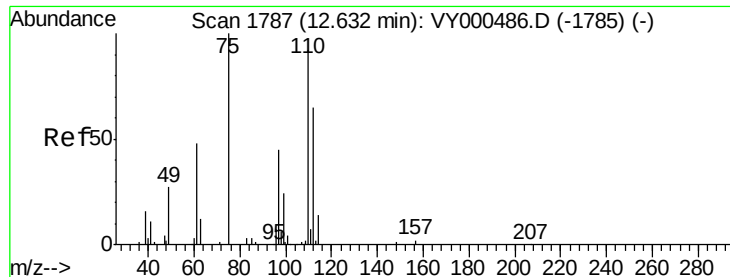
Tot Ion: 43 Resp: 123160
Ion Ratio Lower Upper
43 100
70 9.8 33.1 49.7#
55 19.1 18.0 27.0
61 0.0 19.1 28.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 3.997 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.10 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Tgt Ion: 83 Resp: 7933
Ion Ratio Lower Upper
83 100
131 6.4 5.0 14.9
85 34.3 32.3 96.9





#76

1,2,3-Trichloropropane

Concen: 42.737 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Instrument :

MSVOA_Y

ClientSampled :

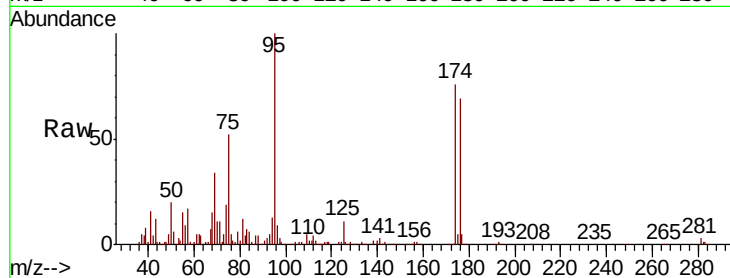
SO-4

Tot Ion: 75 Resp: 65999

Ion Ratio Lower Upper

75 100

77 3.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

12.48

50000

40000

30000

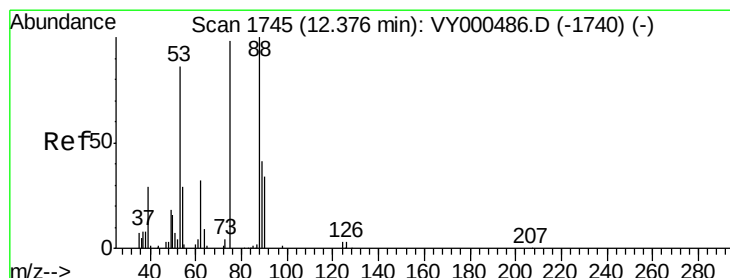
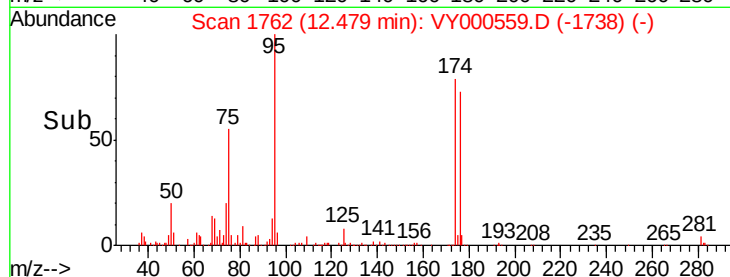
20000

10000

0

Time-->

12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 95.821 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

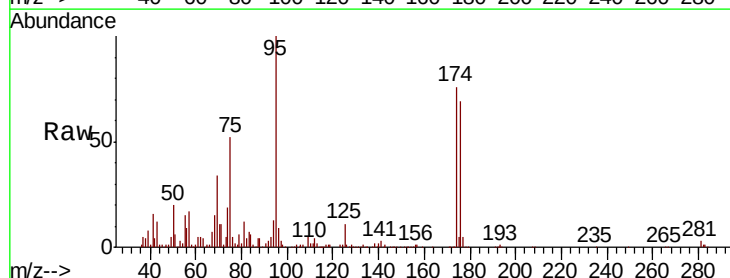
Tgt Ion: 75 Resp: 65999

Ion Ratio Lower Upper

75 100

53 6.4 73.2 109.8#

89 1.1 35.9 53.9#



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

60000

50000

40000

30000

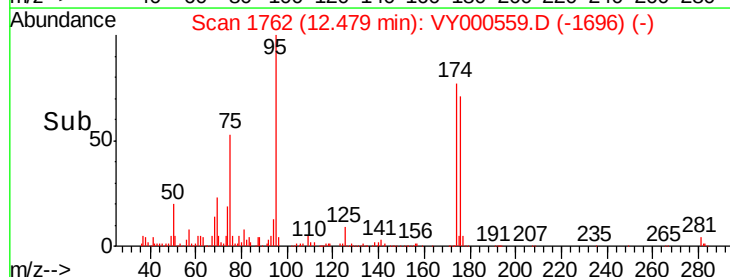
20000

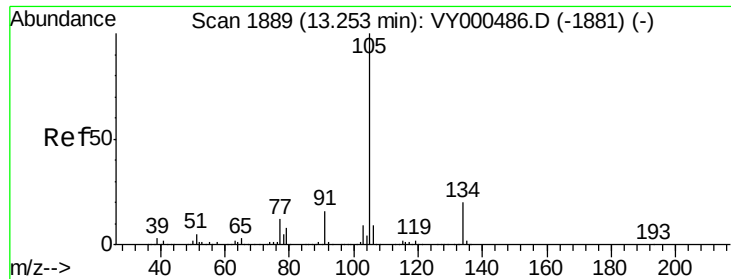
10000

0

Time-->

12.40 12.50





#85

sec-Butylbenzene

Concen: 1.124 ug/l

RT: 13.25 min Scan# 1888

Delta R.T. -0.01 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Instrument :

MSVOA_Y

ClientSampleId :

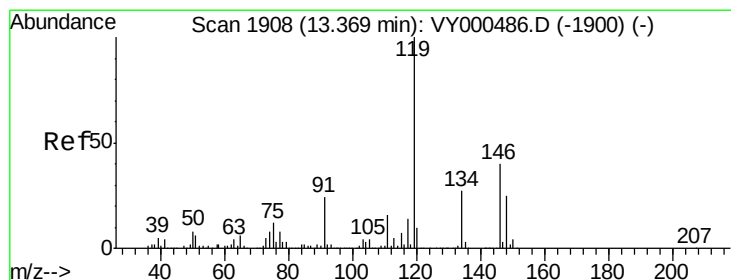
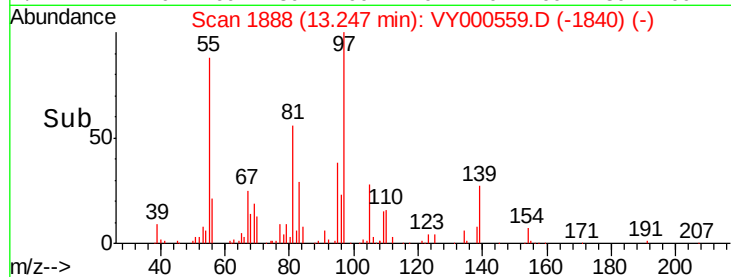
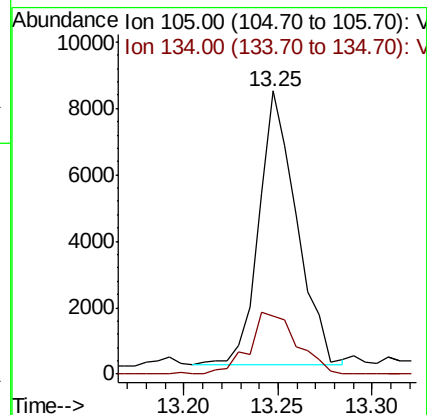
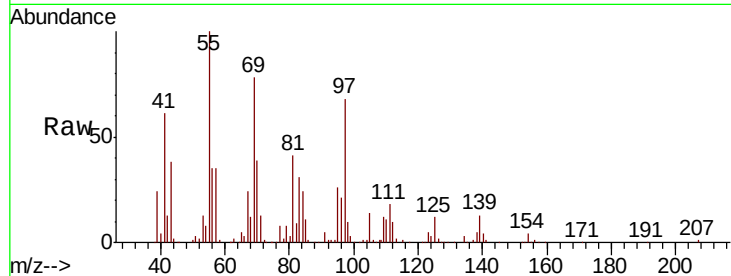
SO-4

Tot Ion:105 Resp: 11416

Ion Ratio Lower Upper

105 100

134 28.4 10.1 30.1



#86

p-Isopropyltoluene

Concen: 3.234 ug/l

RT: 13.52 min Scan# 1933

Delta R.T. 0.15 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

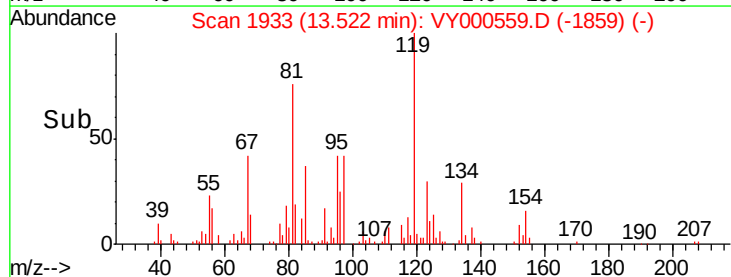
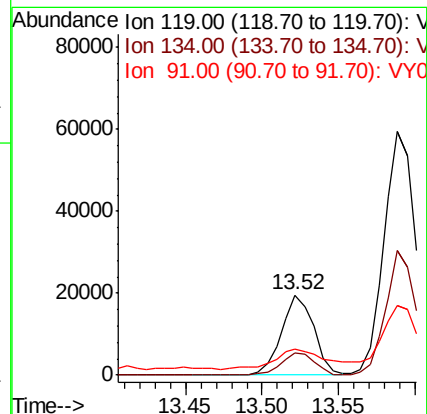
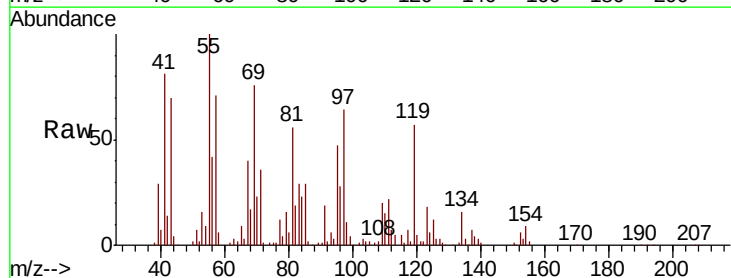
Tgt Ion:119 Resp: 29271

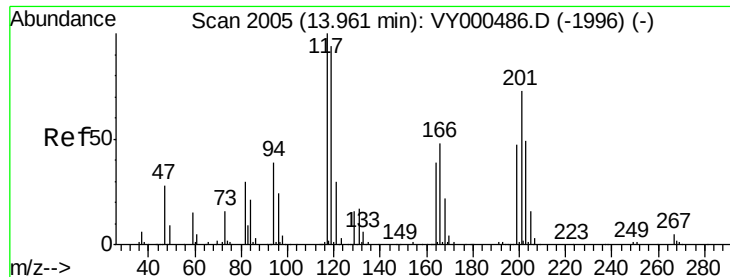
Ion Ratio Lower Upper

119 100

134 28.2 13.6 40.8

91 38.6 12.0 36.1#





#90

Hexachloroethane

Concen: 18.569 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

Instrument :

MSVOA_Y

ClientSampleId :

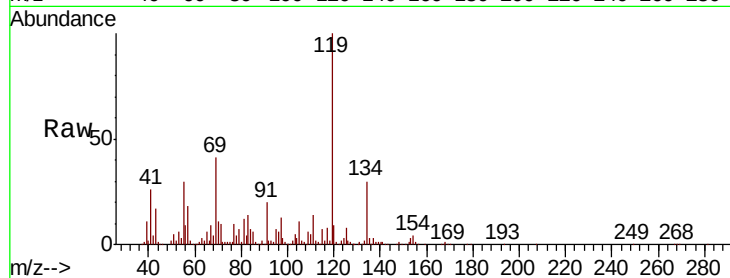
SO-4

Tot Ion:117 Resp: 31072

Ion Ratio Lower Upper

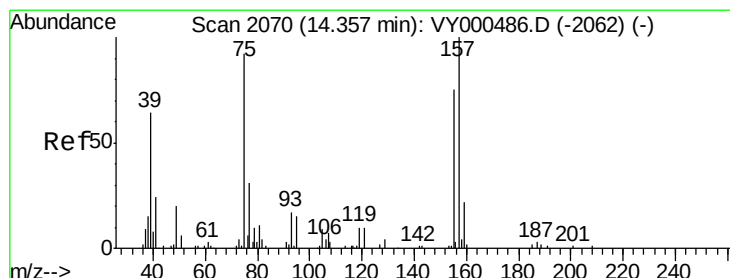
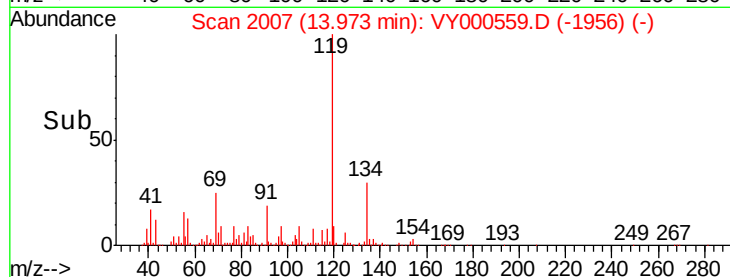
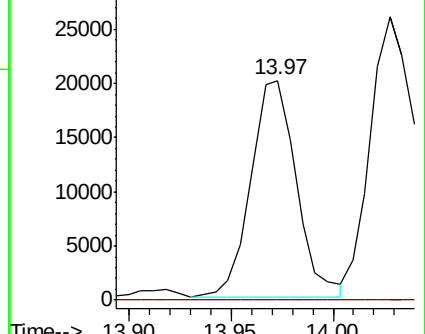
117 100

201 0.0 35.8 107.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.998 ug/l

RT: 14.38 min Scan# 2073

Delta R.T. 0.02 min

Lab File: VY000559.D

Acq: 06 Nov 2019 18:07

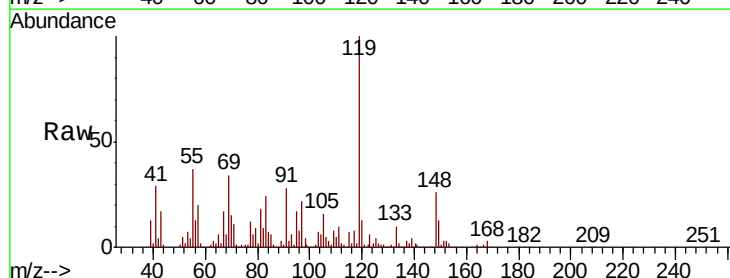
Tgt Ion: 75 Resp: 2107

Ion Ratio Lower Upper

75 100

155 21.2 42.4 127.1#

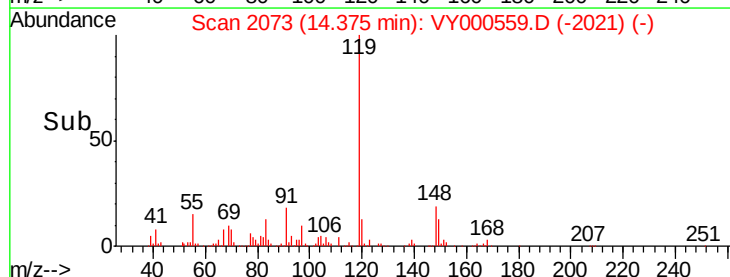
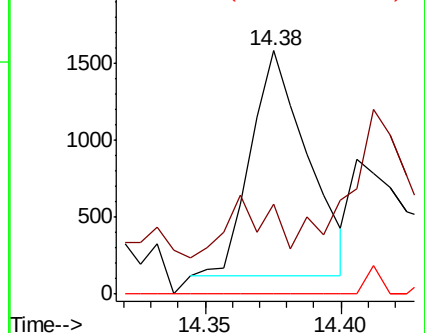
157 0.0 55.1 165.3#

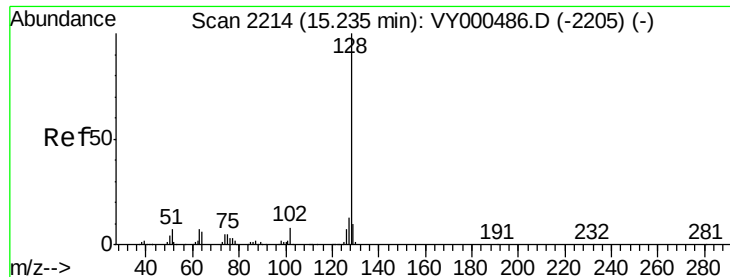


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

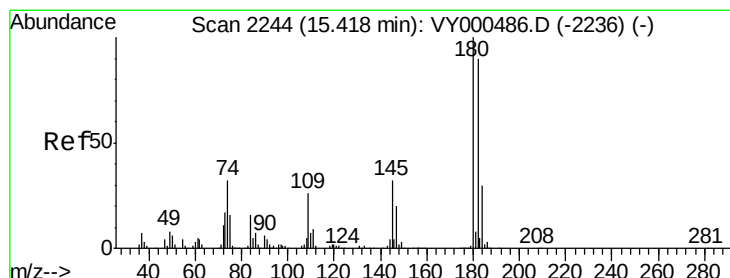
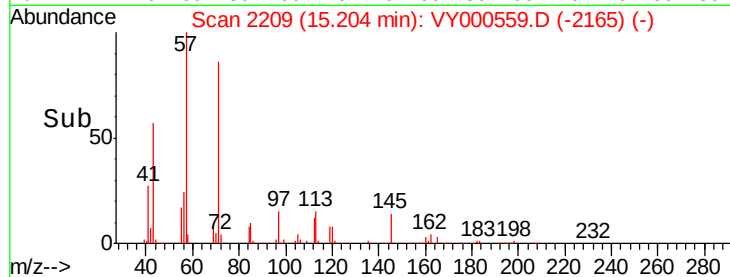
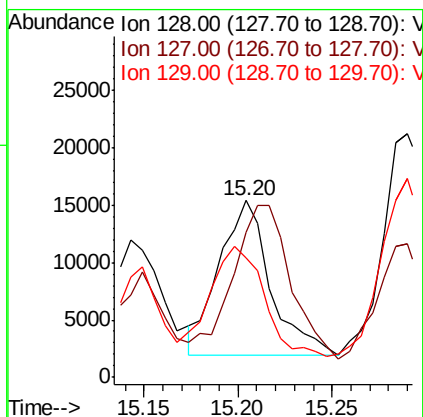
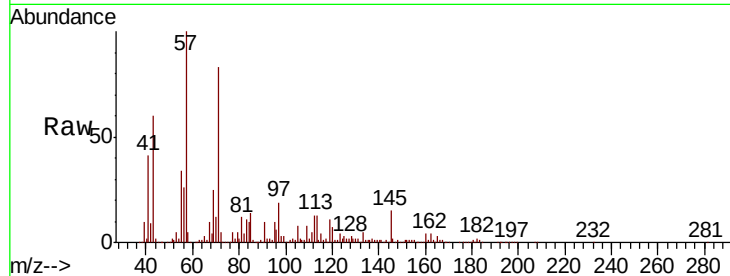




#95
Naphthalene
Concen: 4.191 ug/l
RT: 15.20 min Scan# 2209
Delta R.T. -0.03 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Instrument :
MSVOA_Y
ClientSampled :
SO-4

Tot Ion:128 Resp: 25591
Ion Ratio Lower Upper
128 100
127 113.0 9.8 14.6#
129 74.4 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 6.253 ug/l
RT: 15.39 min Scan# 2239
Delta R.T. -0.03 min
Lab File: VY000559.D
Acq: 06 Nov 2019 18:07

Tgt Ion:180 Resp: 15431
Ion Ratio Lower Upper
180 100
182 29.5 47.4 142.3#
145 891.2 15.7 47.0#

