

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111519\
 Data File : VY000690.D
 Acq On : 15 Nov 2019 10:57
 Operator : SY/MD
 Sample : VY1115SBL01
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 16 02:28:32 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	173263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	313088	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	288783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	131782	50.00	ug/l	0.00

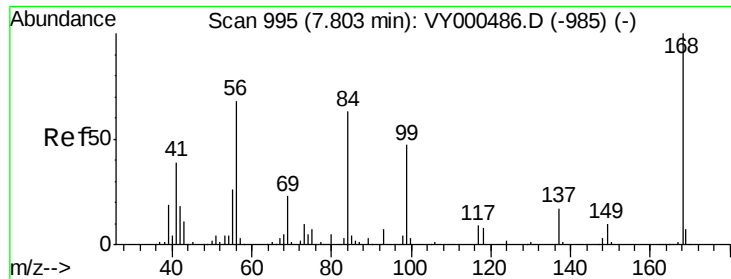
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	104925	58.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.04%	
35) Dibromofluoromethane	7.73	113	94224	51.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.52%	
50) Toluene-d8	10.18	98	364371	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	
62) 4-Bromofluorobenzene	12.48	95	127626	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	2256	1.323	ug/l	79
7) Trichlorofluoromethane	3.13	101	3701	1.256	ug/l	96
11) Tert butyl alcohol	4.96	59	215	1.232	ug/l #	72
16) Acetone	3.96	43	2048	4.144	ug/l #	86
20) Methylene Chloride	4.72	84	9257	4.372	ug/l #	90
25) 2-Butanone	6.99	43	1506	1.910	ug/l #	49
26) 2,2-Dichloropropane	6.99	77	3162	1.044	ug/l #	52
28) Bromochloromethane	7.34	49	240	4.238	ug/l #	14
30) Chloroform	7.52	83	4685	1.398	ug/l	86
31) Cyclohexane	7.80	56	4287	1.235	ug/l #	35
36) 1,1-Dichloropropene	7.79	75	14205	4.799	ug/l #	49
38) Carbon Tetrachloride	7.80	117	16453	5.777	ug/l #	16
49) 1,4-Dioxane	9.31	88	67	4.238	ug/l #	27
59) 2-Hexanone	10.84	43	1429	1.118	ug/l	93
76) 1,2,3-Trichloropropane	12.48	75	68340	45.544	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	68340	102.116	ug/l #	13
93) 1,2,4-Trichlorobenzene	15.01	180	3168	1.185	ug/l	92
95) Naphthalene	15.23	128	10481	1.767	ug/l	95
96) 1,2,3-Trichlorobenzene	15.42	180	2482	1.035	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000690.D

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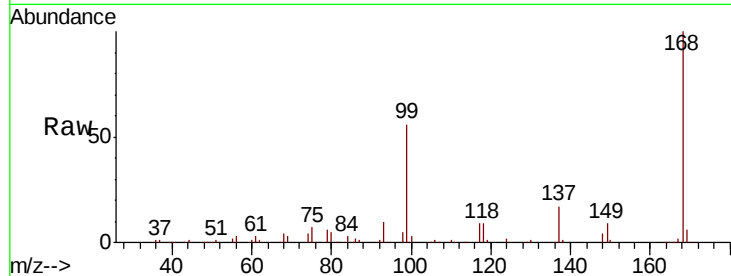
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 173263

Ion Ratio Lower Upper

168 100

99 56.0 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

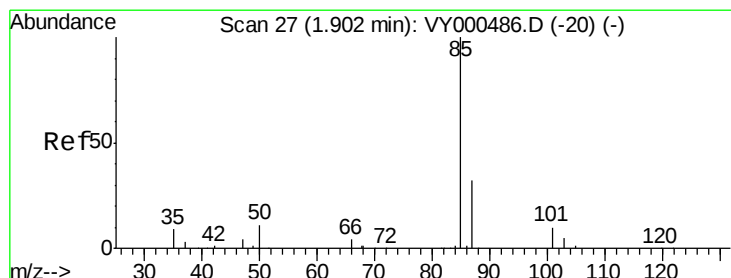
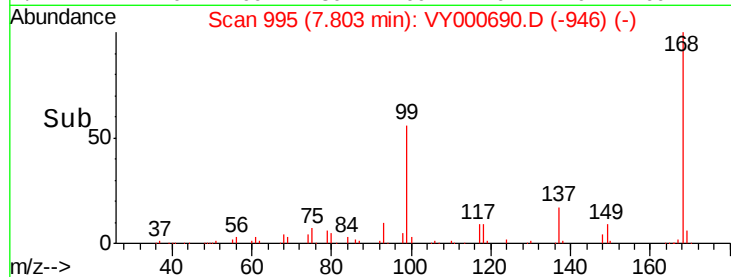
40000

20000

0

Time-->

7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 1.323 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY000690.D

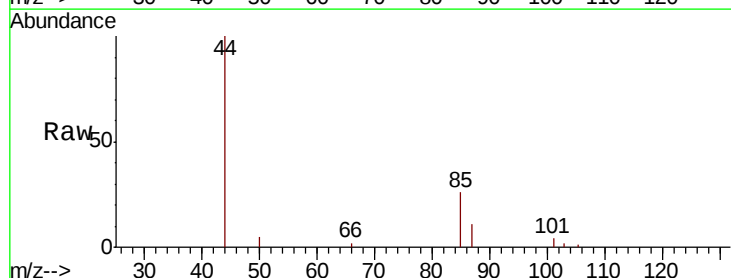
Acq: 15 Nov 2019 10:57

Tgt Ion: 85 Resp: 2256

Ion Ratio Lower Upper

85 100

87 43.6 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VY000486.D (-20) (-)

Ion 86.90 (86.60 to 87.60): VY000486.D (-20) (-)

1.91

1500

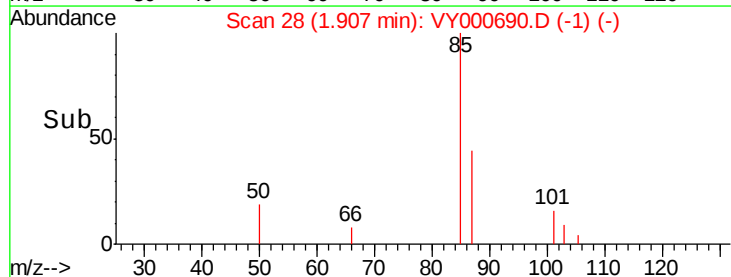
1000

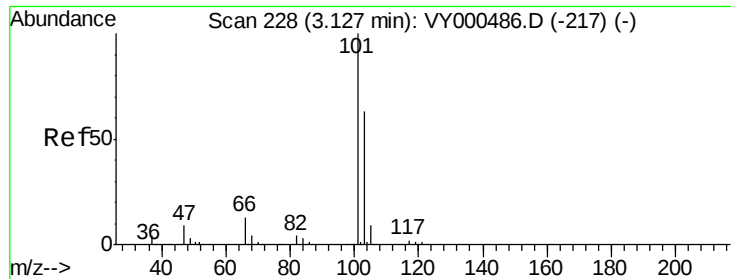
500

0

Time-->

1.85 1.90 1.95



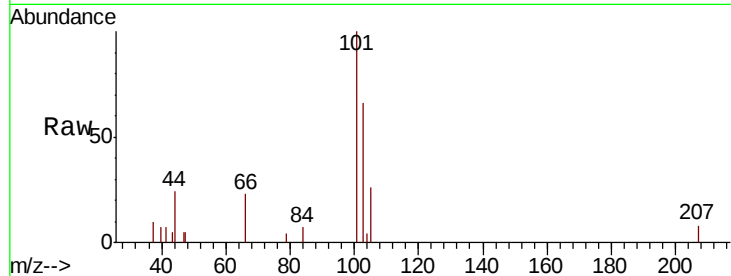


#7

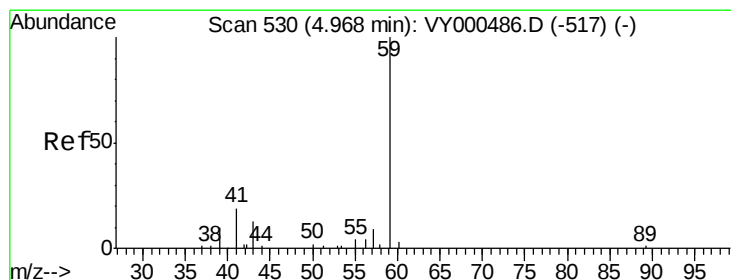
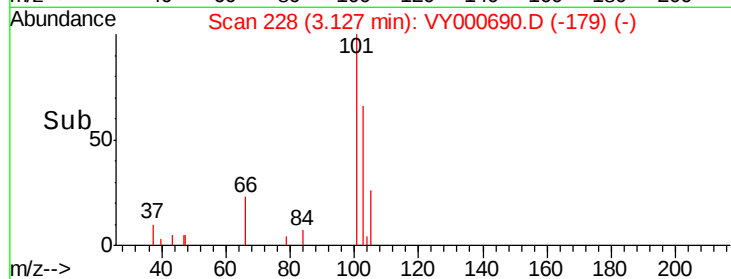
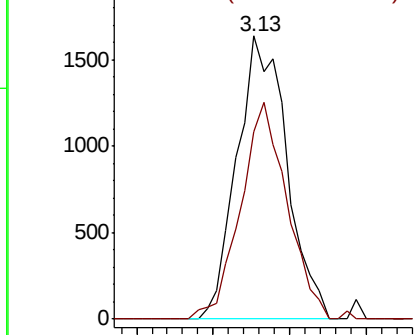
Trichlorofluoromethane
Concen: 1.256 ug/l
RT: 3.13 min Scan# 228
Delta R.T. -0.00 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:101 Resp: 3701
Ion Ratio Lower Upper
101 100
103 66.3 50.5 75.7



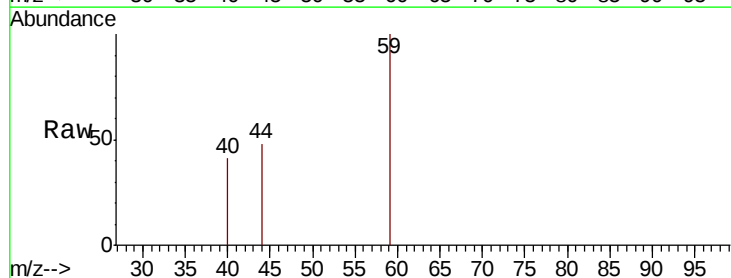
Abundance Ion 100.90 (100.60 to 101.60): V
Ion 102.80 (102.50 to 103.50): V



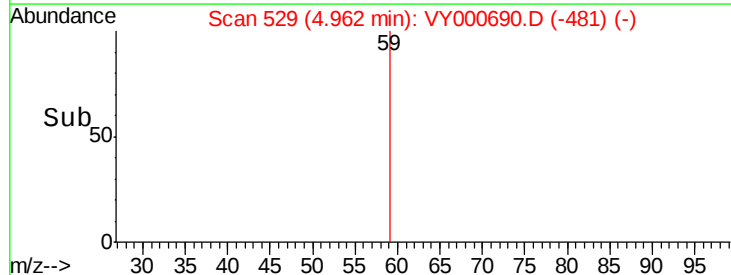
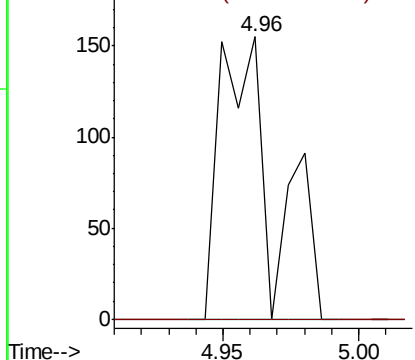
#11

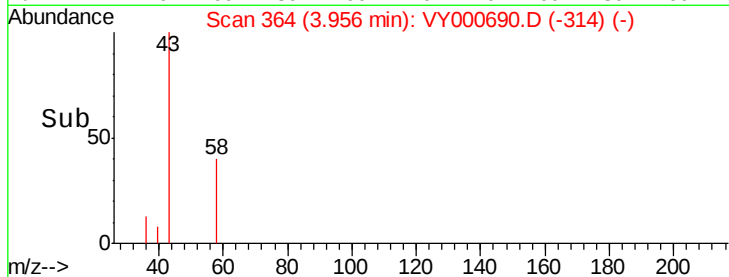
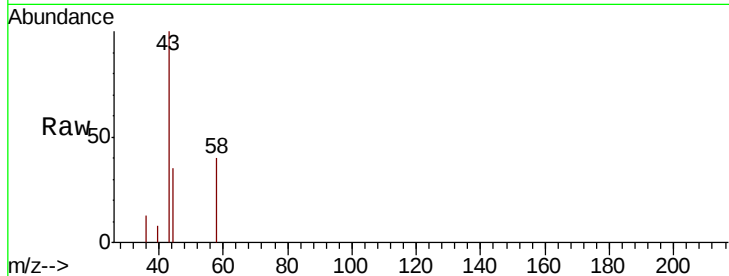
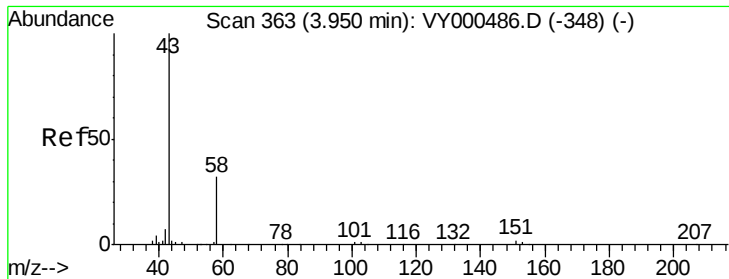
Tert butyl alcohol
Concen: 1.232 ug/l
RT: 4.96 min Scan# 529
Delta R.T. -0.01 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Tgt Ion: 59 Resp: 215
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VY0
Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 4.144 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Instrument :

MSVOA_Y

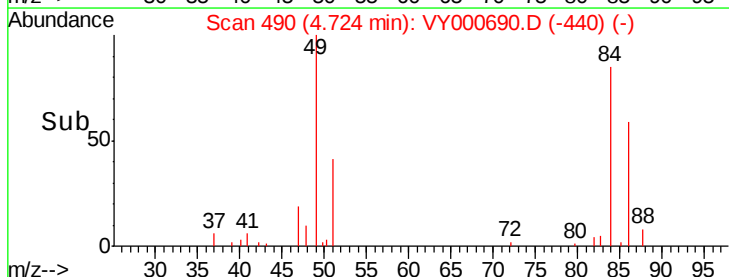
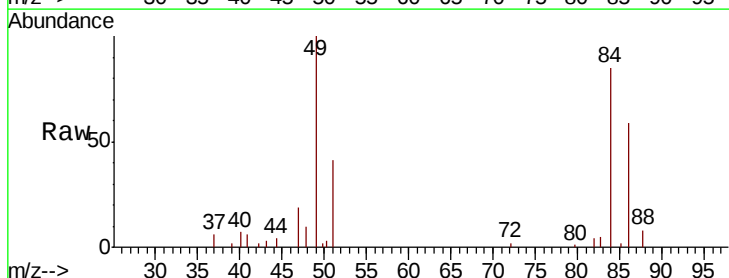
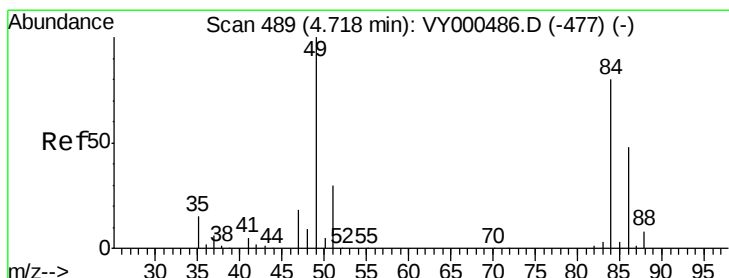
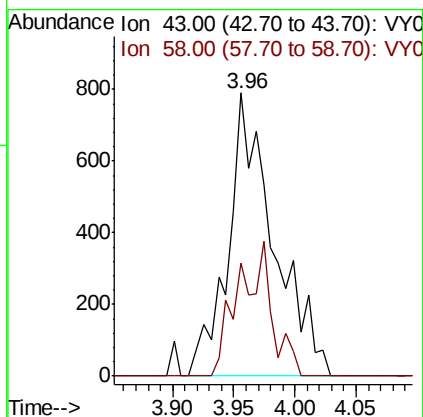
ClientSampleId :

Tot Ion: 43 Resp: 2048

Ion Ratio Lower Upper

43 100

58 39.9 25.8 38.6#



#20

Methylene Chloride

Concen: 4.372 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.01 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Tgt Ion: 84 Resp: 9257

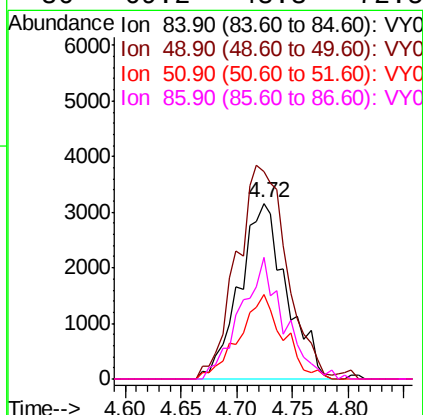
Ion Ratio Lower Upper

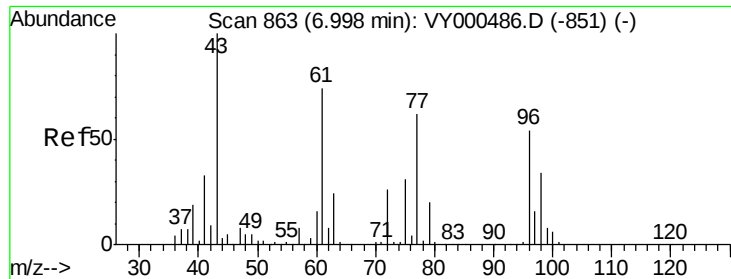
84 100

49 118.0 100.2 150.4

51 48.0 29.6 44.4#

86 69.2 48.3 72.5

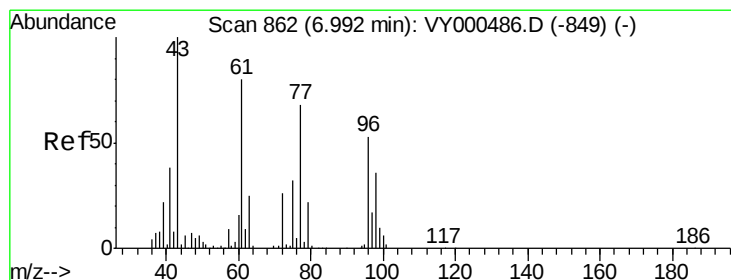
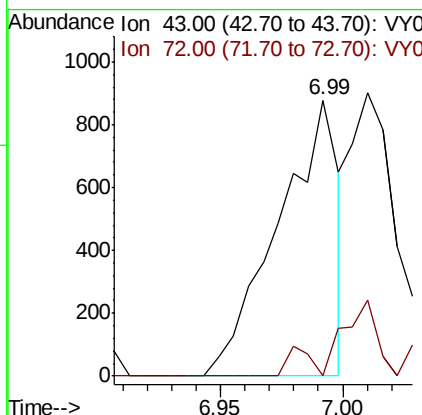
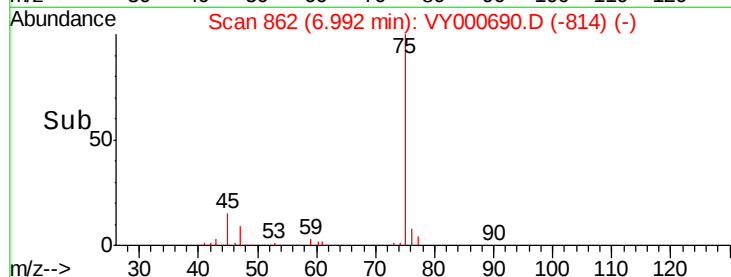
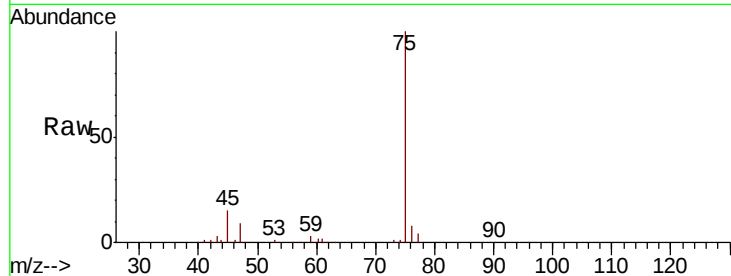




#25
2-Butanone
Concen: 1.910 ug/l
RT: 6.99 min Scan# 862
Delta R.T. -0.01 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

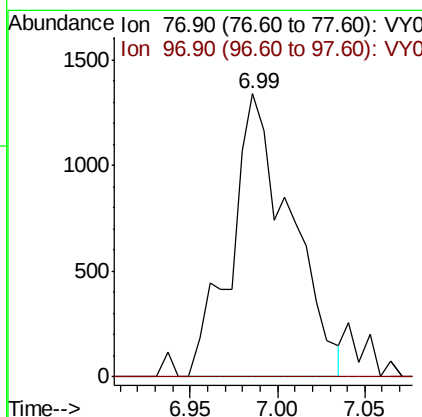
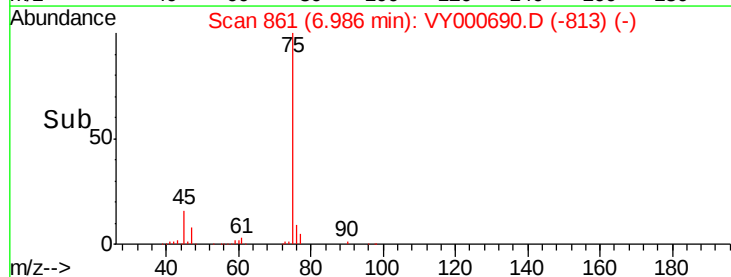
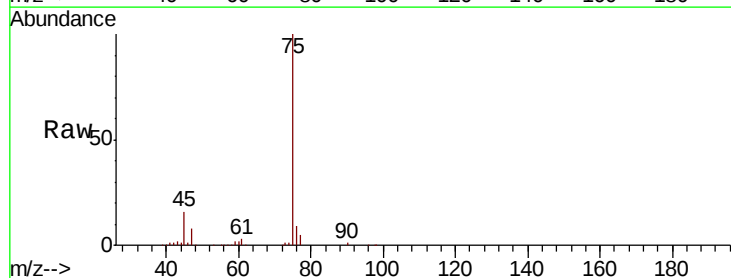
Instrument :
MSVOA_Y
ClientSampleId :

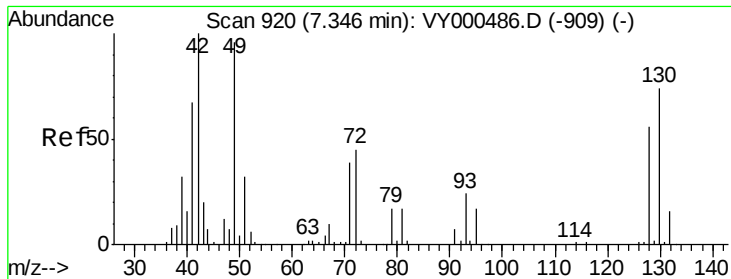
Tot Ion: 43 Resp: 1506
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#26
2,2-Dichloropropane
Concen: 1.044 ug/l
RT: 6.99 min Scan# 861
Delta R.T. -0.01 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Tgt Ion: 77 Resp: 3162
Ion Ratio Lower Upper
77 100
97 0.0 11.8 35.4#





#28

Bromochloromethane

Concen: 4.238 ug/l

RT: 7.34 min Scan# 919

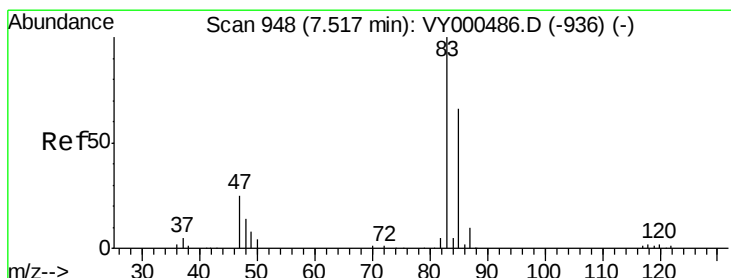
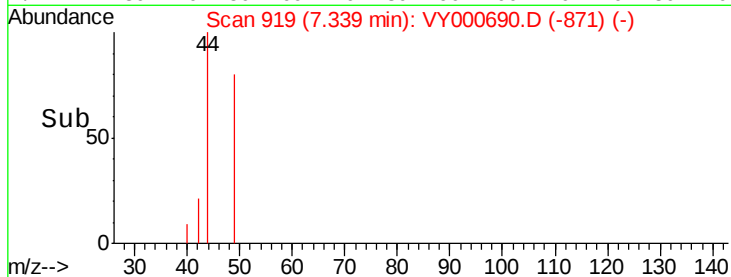
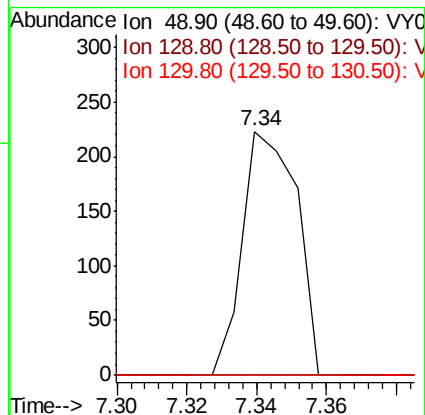
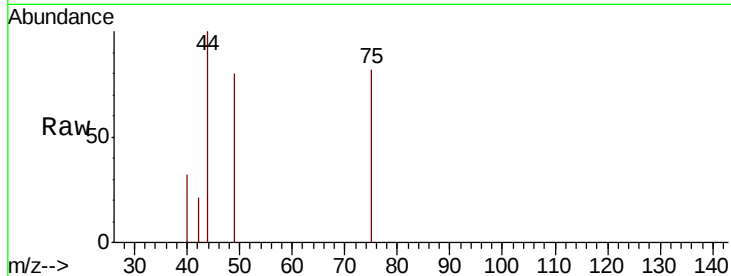
Delta R.T. -0.01 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 49 Resp: 240
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 59.4 89.0#



#30

Chloroform

Concen: 1.398 ug/l

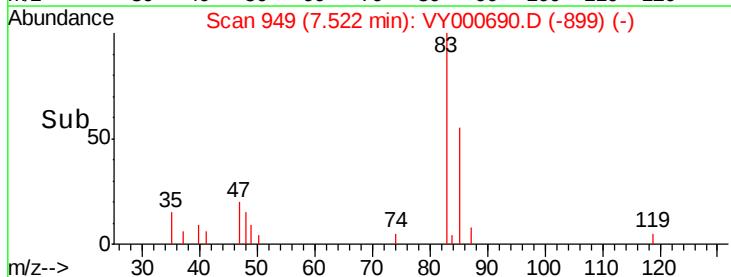
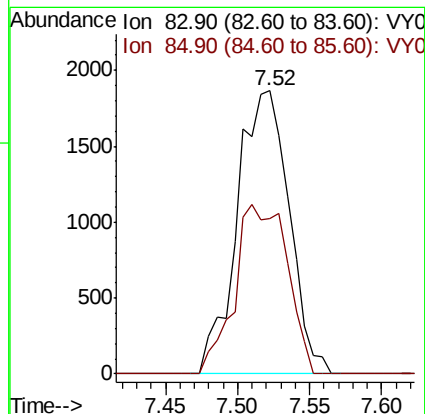
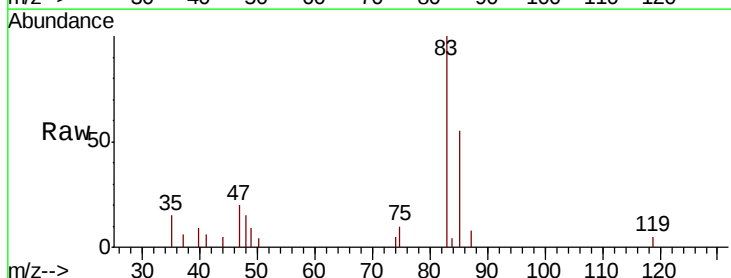
RT: 7.52 min Scan# 949

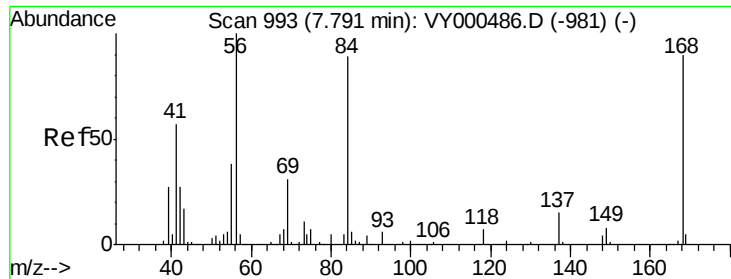
Delta R.T. 0.01 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Tgt Ion: 83 Resp: 4685
Ion Ratio Lower Upper
83 100
85 55.1 53.0 79.4

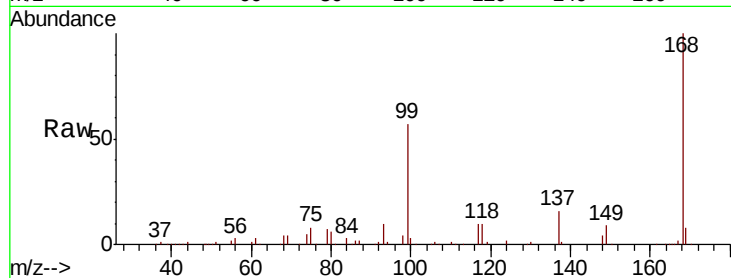




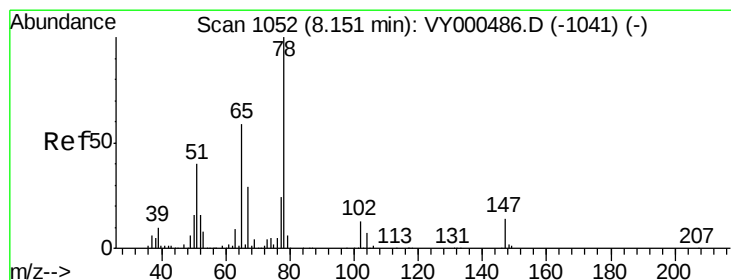
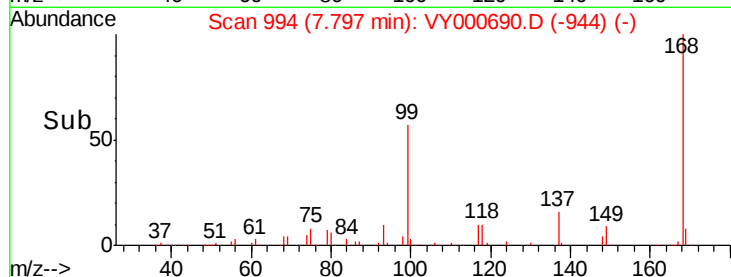
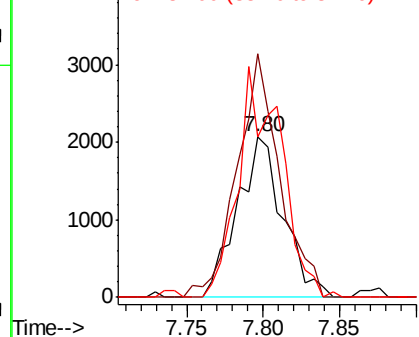
#31
Cyclohexane
Concen: 1.235 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.01 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 56 Resp: 4287
Ion Ratio Lower Upper
56 100
69 151.6 25.0 37.6#
84 99.5 71.4 107.2

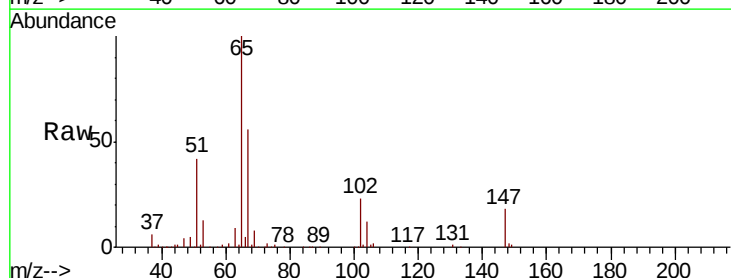


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

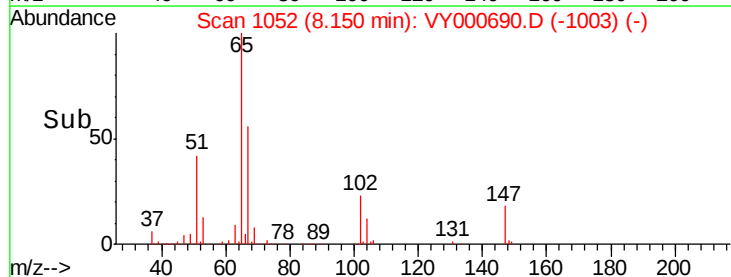
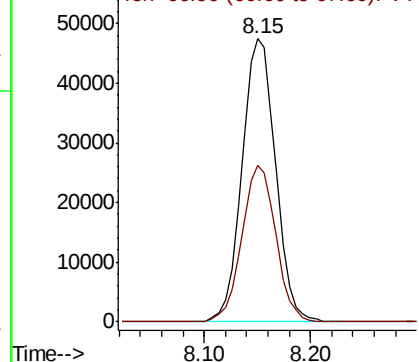


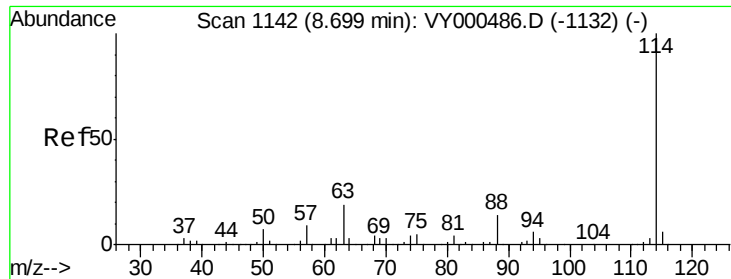
#33
1,2-Dichloroethane-d4
Concen: 58.518 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Tgt Ion: 65 Resp: 104925
Ion Ratio Lower Upper
65 100
67 56.0 0.0 107.2



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

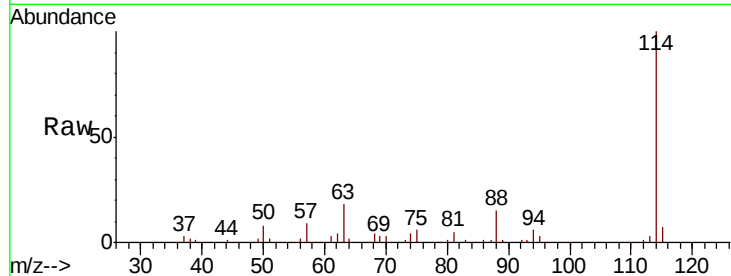




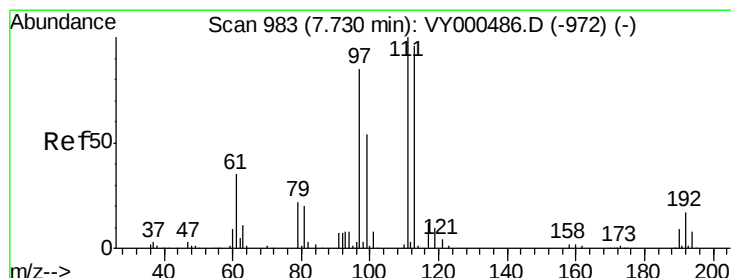
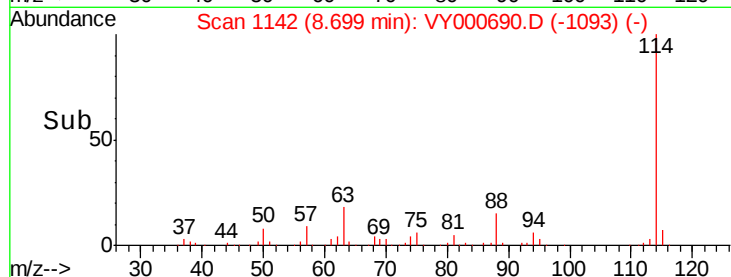
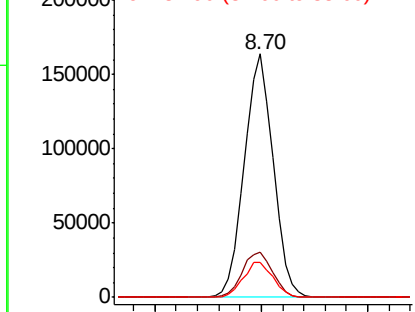
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.70 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:114 Resp: 313088
Ion Ratio Lower Upper
114 100
63 18.4 0.0 38.0
88 14.6 0.0 28.6

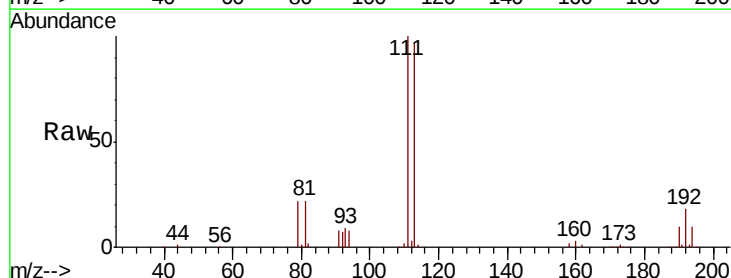


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VY0
Ion 87.90 (87.60 to 88.60): VY0

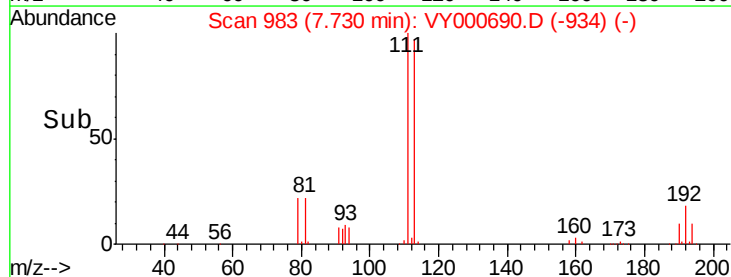
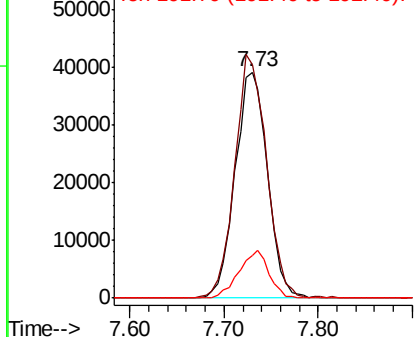


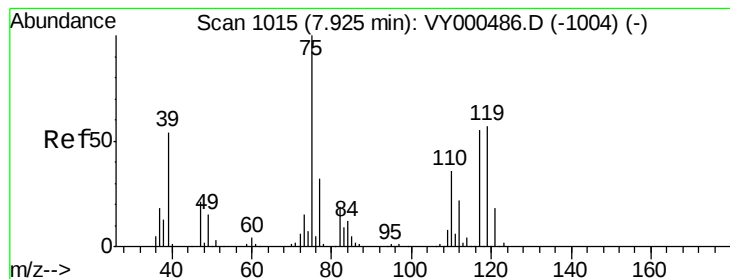
#35
Dibromofluoromethane
Concen: 51.264 ug/l
RT: 7.73 min Scan# 983
Delta R.T. -0.00 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Tgt Ion:113 Resp: 94224
Ion Ratio Lower Upper
113 100
111 104.7 81.7 122.5
192 19.3 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: 4.799 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.13 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Instrument :

MSVOA_Y

ClientSampleId :

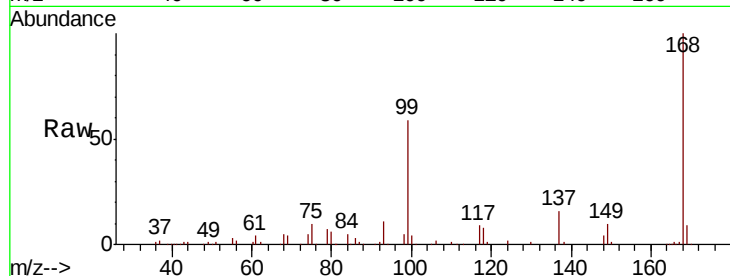
Tot Ion: 75 Resp: 14205

Ion Ratio Lower Upper

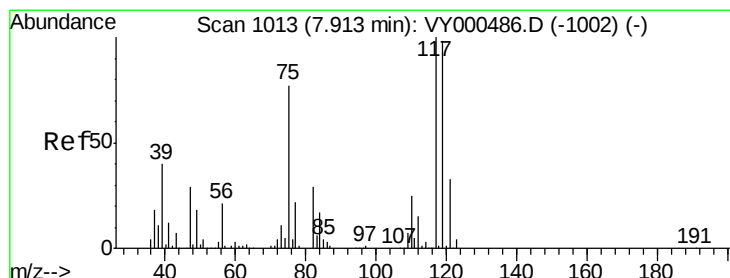
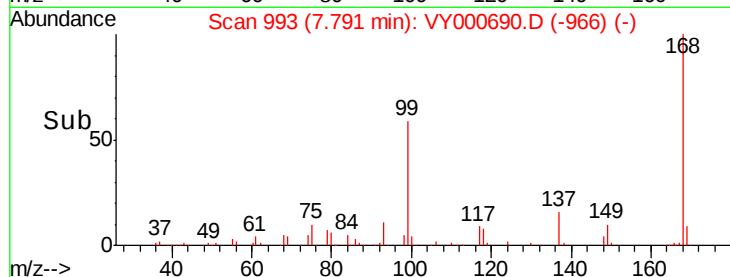
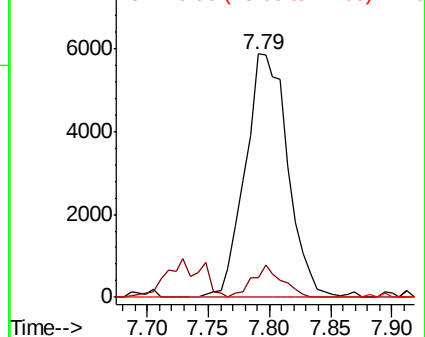
75 100

110 9.2 18.1 54.1#

77 0.0 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: 5.777 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.12 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

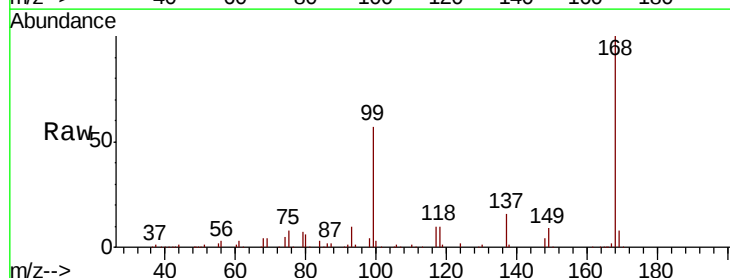
Tgt Ion: 117 Resp: 16453

Ion Ratio Lower Upper

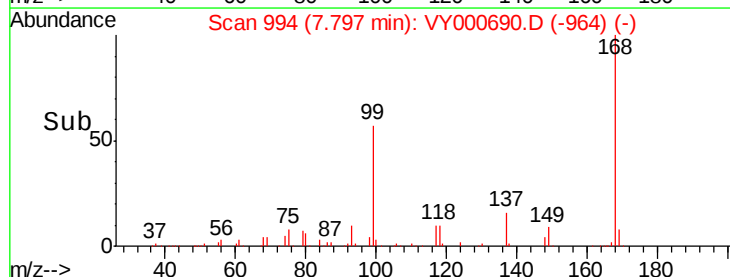
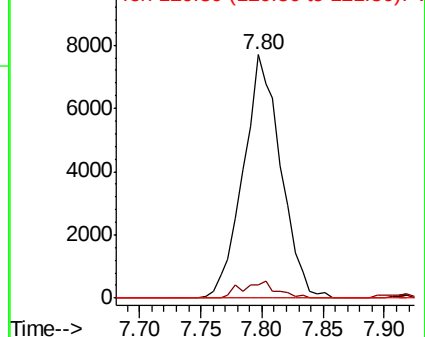
117 100

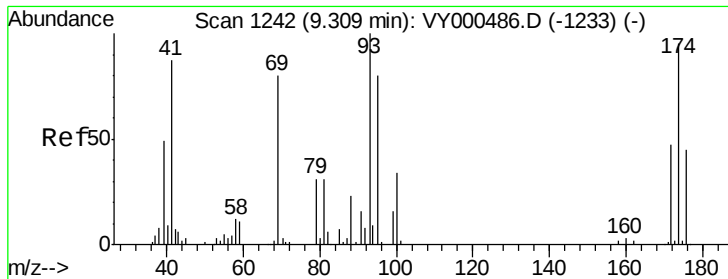
119 5.7 78.0 117.0#

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

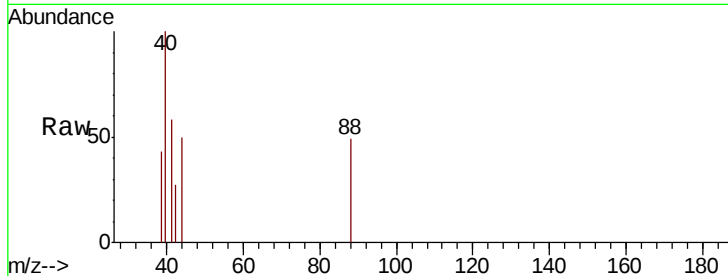




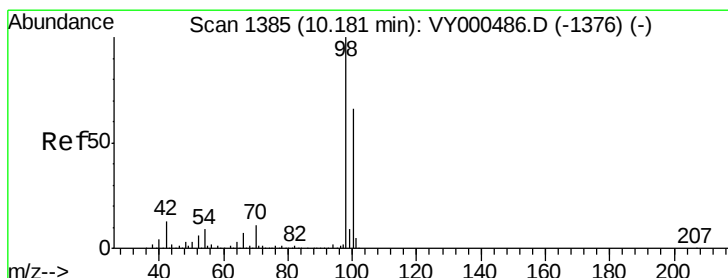
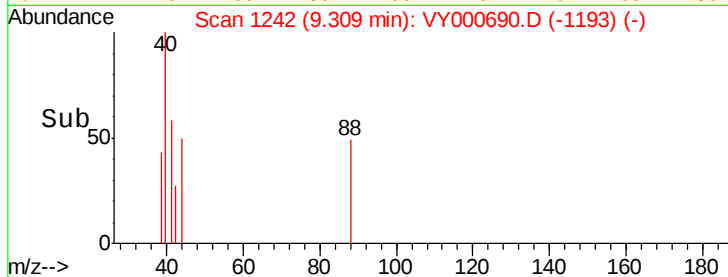
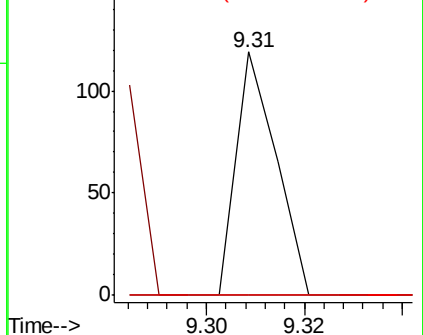
#49
 1,4-Dioxane
 Concen: 4.238 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VY000690.D
 Acq: 15 Nov 2019 10:57

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion: 88 Resp: 67
 Ion Ratio Lower Upper
 88 100
 43 0.0 25.1 37.7#
 58 0.0 50.6 75.8#

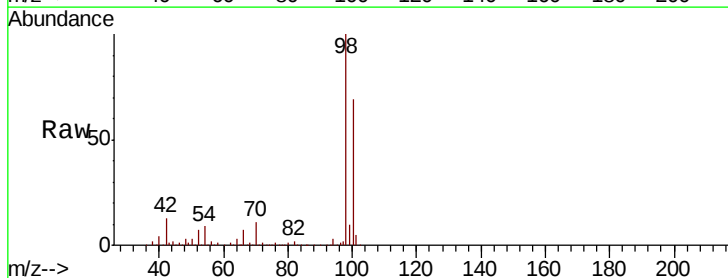


Abundance Ion 88.00 (87.70 to 88.70): VY0
 Ion 43.00 (42.70 to 43.70): VY0
 Ion 58.00 (57.70 to 58.70): VY0

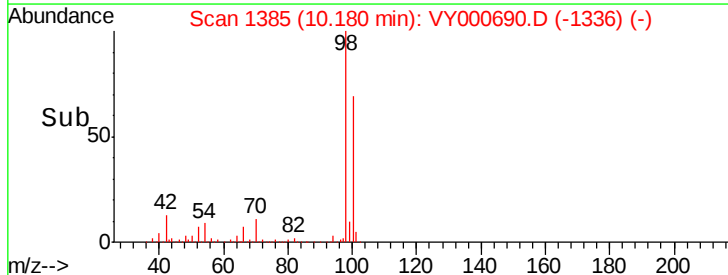
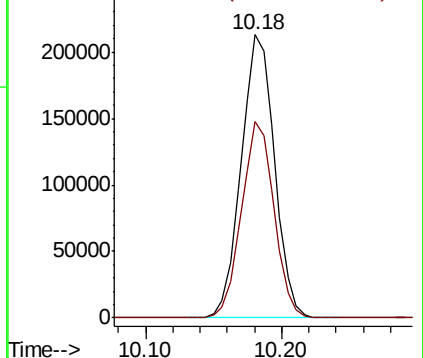


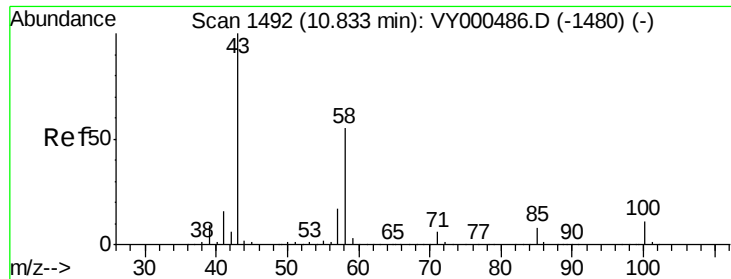
#50
 Toluene-d8
 Concen: 52.245 ug/l
 RT: 10.18 min Scan# 1385
 Delta R.T. -0.00 min
 Lab File: VY000690.D
 Acq: 15 Nov 2019 10:57

Tgt Ion: 98 Resp: 364371
 Ion Ratio Lower Upper
 98 100
 100 67.5 52.9 79.3



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





#59

2-Hexanone

Concen: 1.118 ug/l

RT: 10.84 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Instrument :

MSVOA_Y

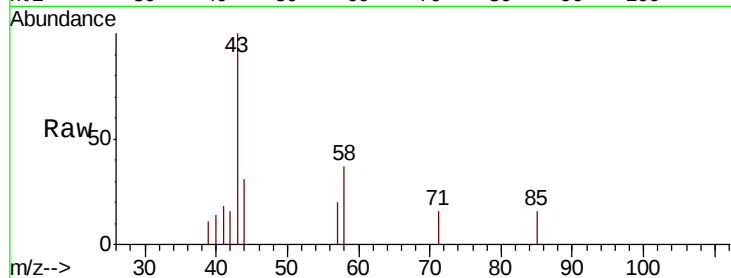
ClientSampled :

Tot Ion: 43 Resp: 1429

Ion Ratio Lower Upper

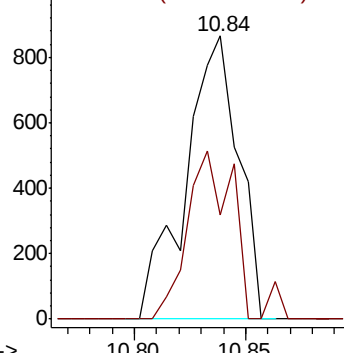
43 100

58 49.3 27.1 81.3

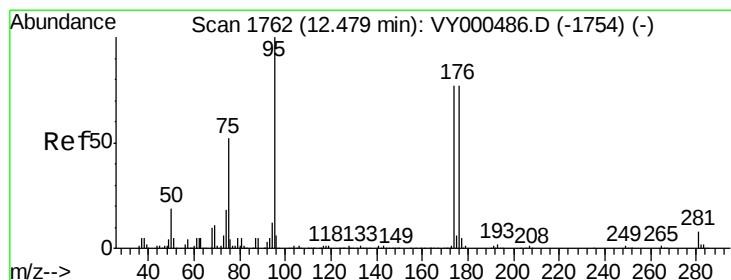
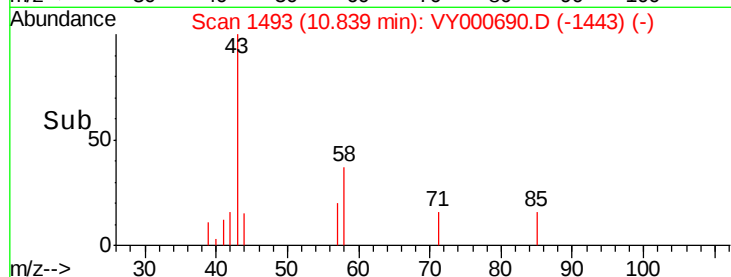


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



Time-->



#62

4-Bromofluorobenzene

Concen: 48.068 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. 0.01 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

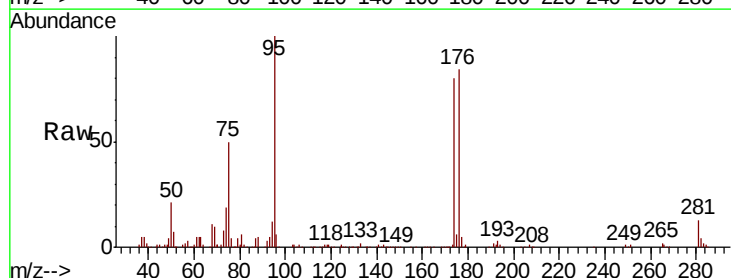
Tgt Ion: 95 Resp: 127626

Ion Ratio Lower Upper

95 100

174 81.3 0.0 161.6

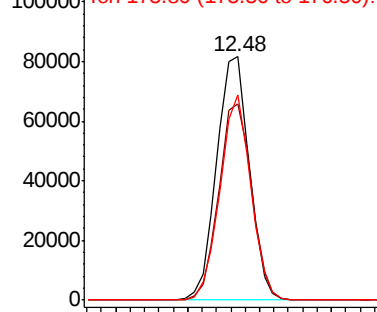
176 79.5 0.0 157.8



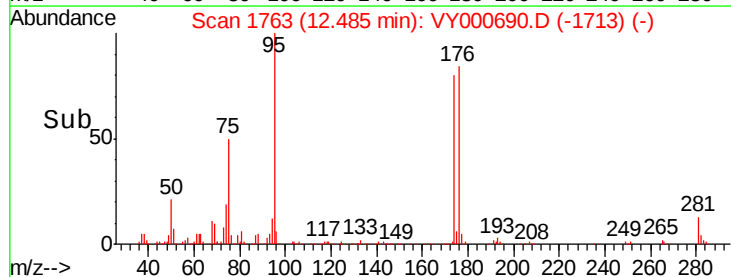
Abundance Ion 94.90 (94.60 to 95.60): VY0

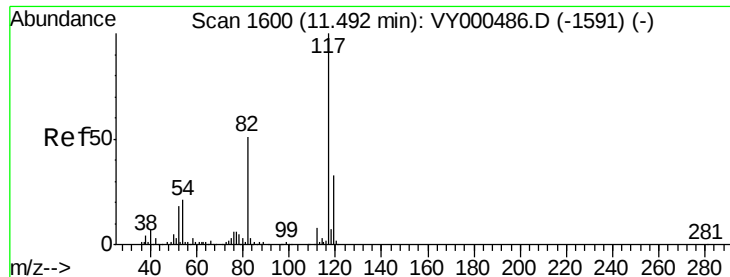
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

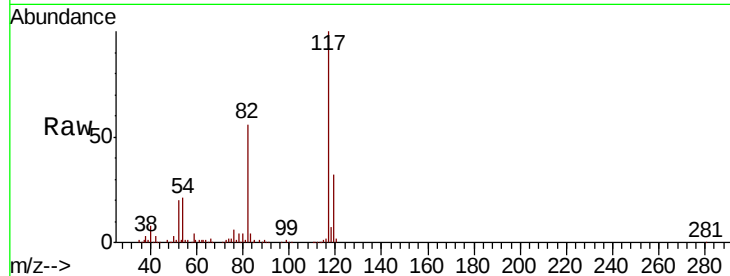




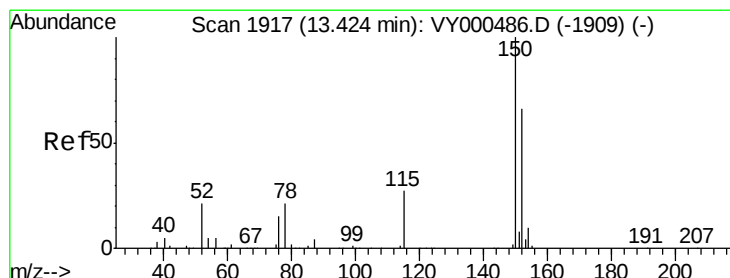
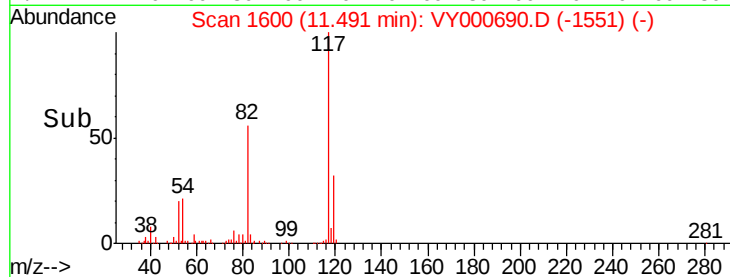
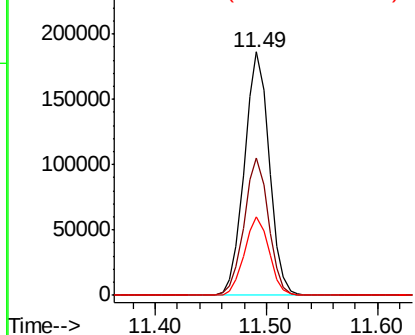
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 288783
Ion Ratio Lower Upper
117 100
82 56.2 40.8 61.2
119 32.4 26.2 39.2

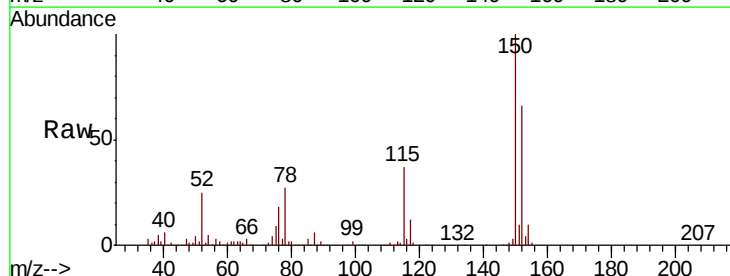


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

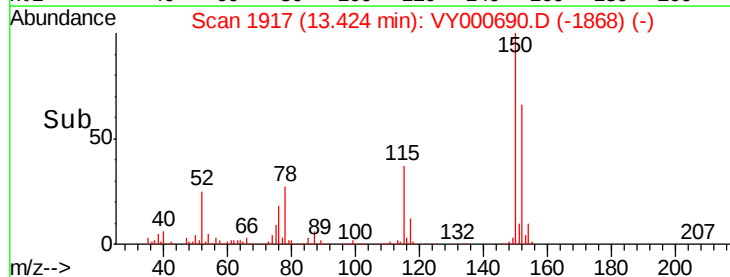
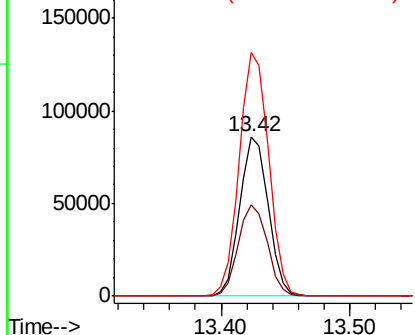


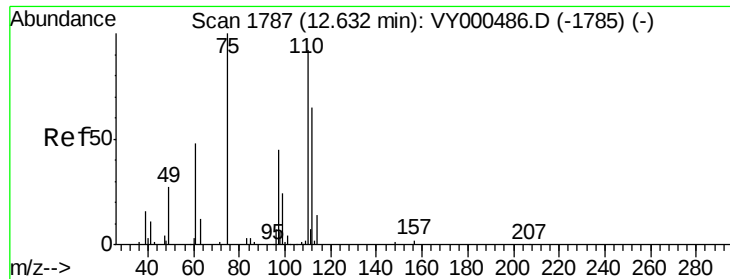
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY000690.D
Acq: 15 Nov 2019 10:57

Tgt Ion:152 Resp: 131782
Ion Ratio Lower Upper
152 100
115 57.8 29.1 87.4
150 157.2 0.0 348.8



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: 45.544 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Instrument :

MSVOA_Y

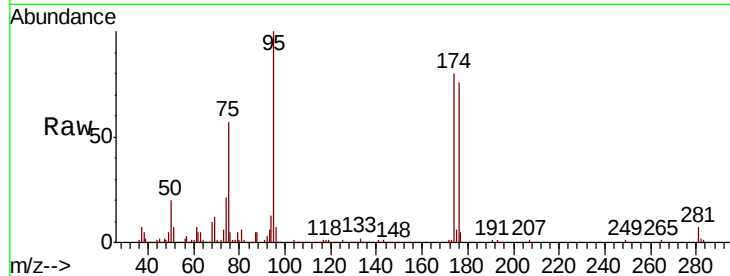
ClientSampled :

Tot Ion: 75 Resp: 68340

Ion Ratio Lower Upper

75 100

77 1.4 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

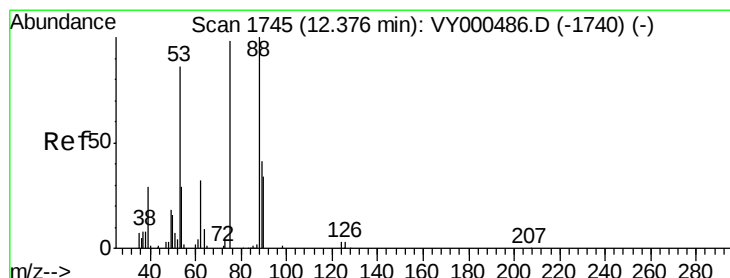
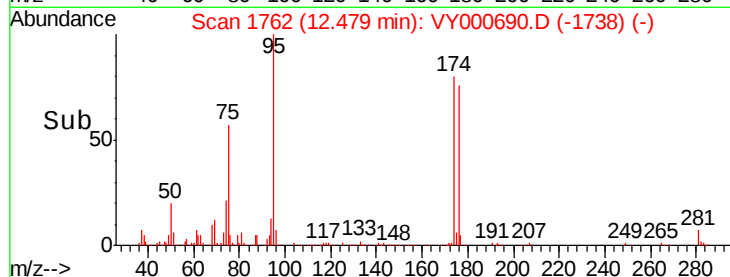
30000

20000

10000

0

Time--> 12.40 12.45 12.50 12.55



#81

trans-1,4-Dichloro-2-butene

Concen: 102.116 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

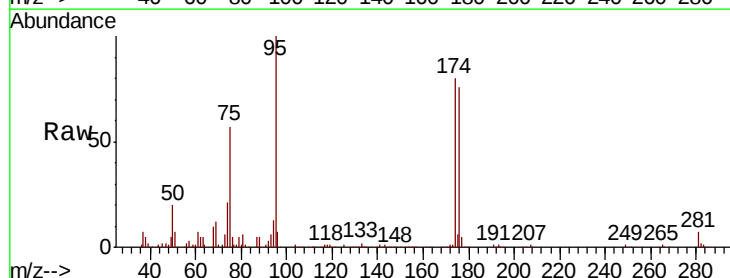
Tgt Ion: 75 Resp: 68340

Ion Ratio Lower Upper

75 100

53 0.0 73.2 109.8#

89 0.2 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

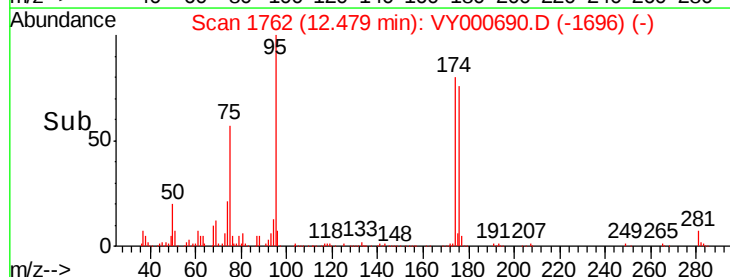
30000

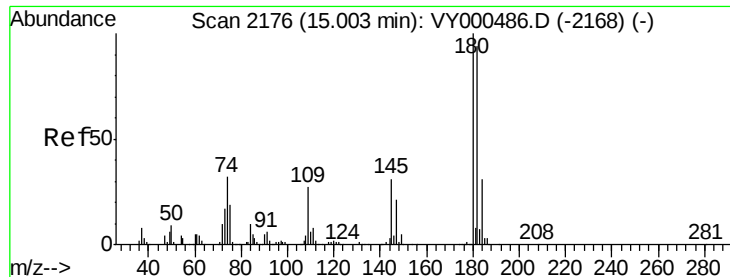
20000

10000

0

Time--> 12.40 12.45 12.50 12.55

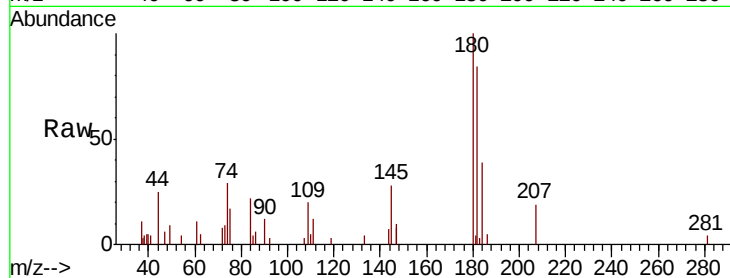




#93
 1,2,4-Trichlorobenzene
 Concen: 1.185 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. 0.01 min
 Lab File: VY000690.D
 Acq: 15 Nov 2019 10:57

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.1	47.8	143.4
145	31.5	16.0	47.9

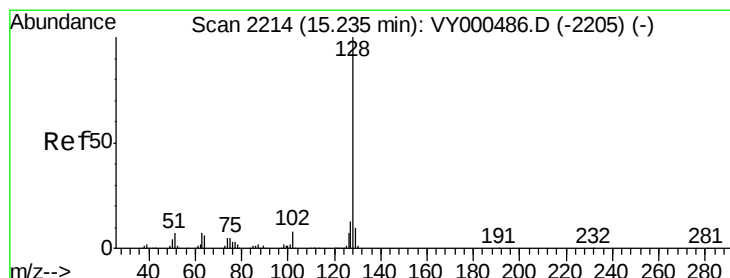
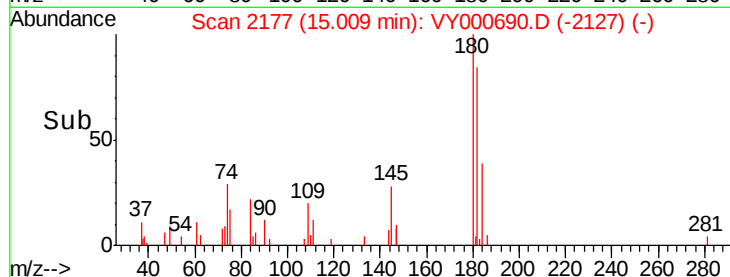
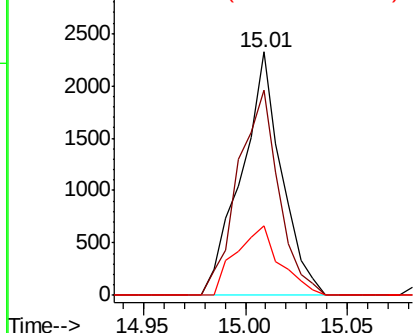


Abundance

Ion 179.80 (179.50 to 180.50): V

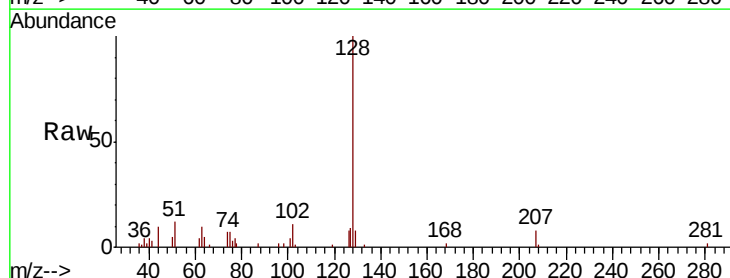
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 1.767 ug/l
 RT: 15.23 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VY000690.D
 Acq: 15 Nov 2019 10:57

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.5	9.8	14.6
129	8.9	8.7	13.1

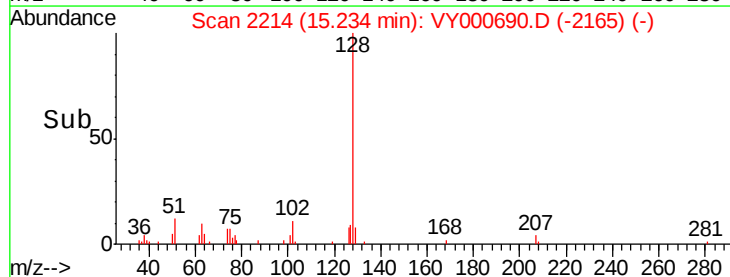
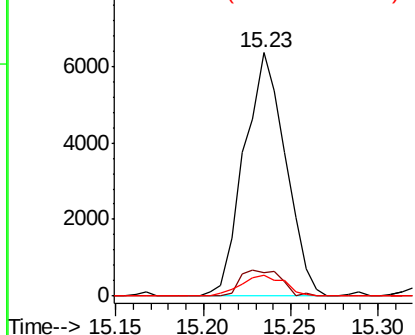


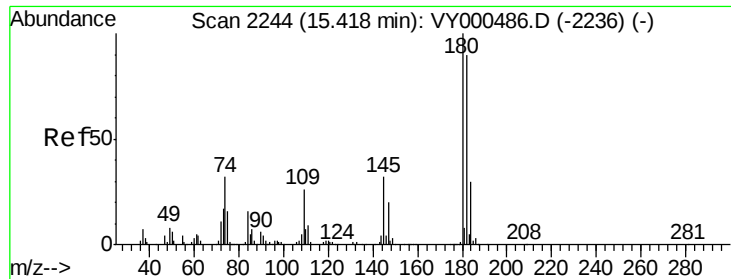
Abundance

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





#96

1,2,3-Trichlorobenzene

Concen: 1.035 ug/l

RT: 15.42 min Scan# 2245

Delta R.T. 0.01 min

Lab File: VY000690.D

Acq: 15 Nov 2019 10:57

Instrument :

MSVOA_Y

ClientSampleId :

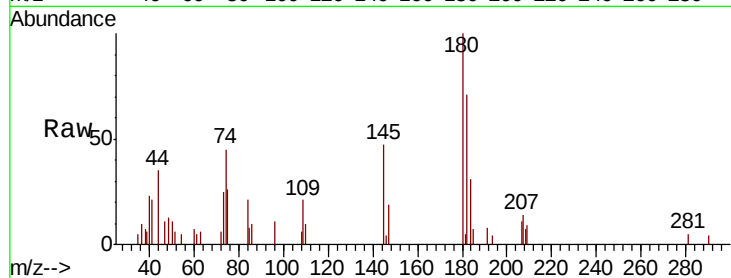
Tot Ion:180 Resp: 2482

Ion Ratio Lower Upper

180 100

182 95.6 47.4 142.3

145 41.6 15.7 47.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

