

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112119\
 Data File : VY000775.D
 Acq On : 21 Nov 2019 17:55
 Operator : SY/MD
 Sample : K5959-05
 Misc : 5.49G/5ML/MSVOA Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 22 03:15:54 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	294083	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	545152	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	451642	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	147567	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	181098	59.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.02%	
35) Dibromofluoromethane	7.73	113	155757	48.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.34%	
50) Toluene-d8	10.18	98	637872	52.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.06%	
62) 4-Bromofluorobenzene	12.48	95	180346	39.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.02%	

Target Compounds

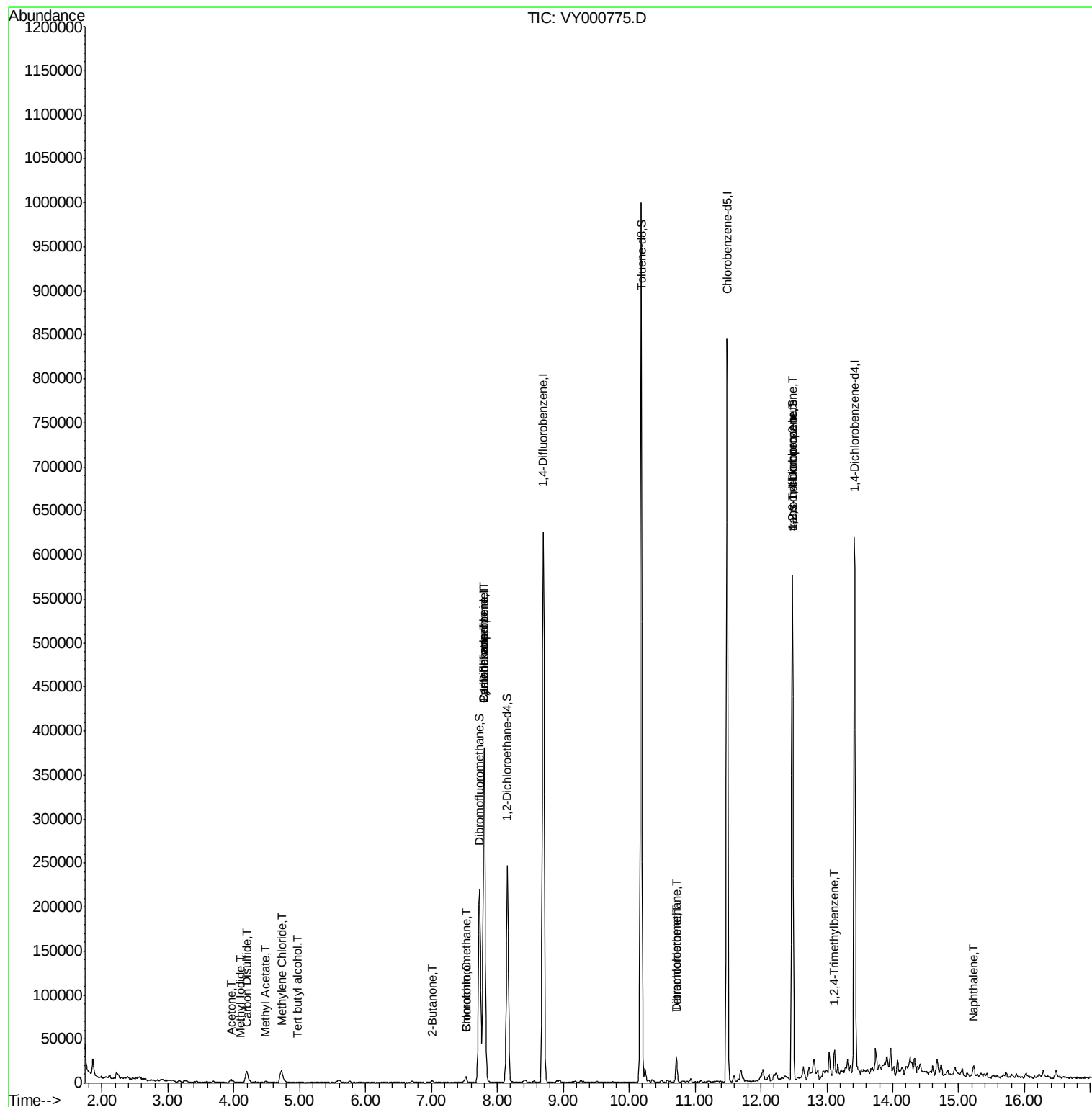
						Qvalue
10) Methyl Iodide	4.10	142	928	3.418	ug/l #	79
11) Tert butyl alcohol	4.97	59	450	1.519	ug/l #	72
16) Acetone	3.95	43	6246	7.446	ug/l	92
17) Carbon Disulfide	4.19	76	25279	2.728	ug/l	98
18) Methyl Acetate	4.48	43	3129	1.200	ug/l	95
20) Methylene Chloride	4.73	84	9797	2.726	ug/l #	92
25) 2-Butanone	7.01	43	2414	1.803	ug/l #	90
28) Bromochloromethane	7.52	49	471	4.261	ug/l #	14
30) Chloroform	7.52	83	5796	1.019	ug/l	100
31) Cyclohexane	7.80	56	6872	1.167	ug/l #	3
36) 1,1-Dichloropropene	7.80	75	23724	4.603	ug/l #	49
38) Carbon Tetrachloride	7.80	117	29606	5.970	ug/l #	16
60) Dibromochloromethane	10.71	129	5498	1.623	ug/l #	10
64) Tetrachloroethene	10.72	164	5759	1.542	ug/l #	86
76) 1,2,3-Trichloropropane	12.47	75	94567	56.281	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.47	75	94567	126.191	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.11	105	15606	1.726	ug/l	96
95) Naphthalene	15.23	128	9462	1.424	ug/l #	94

(#) = 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: VY000775.D

Acq: 21 Nov 2019 17:55

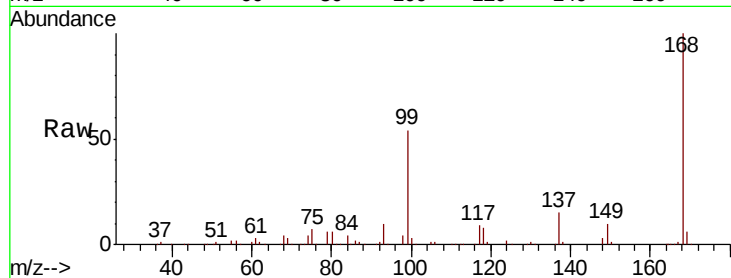
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 294083

Ion Ratio Lower Upper

168 100

99 54.4 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0

7.80

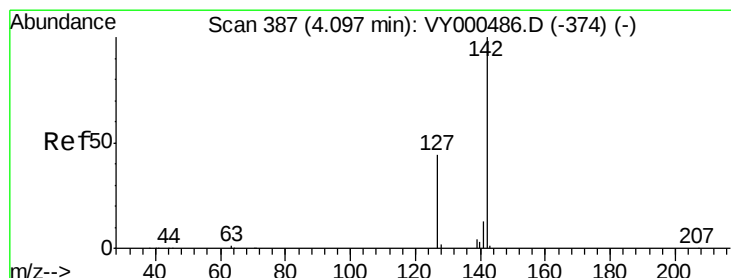
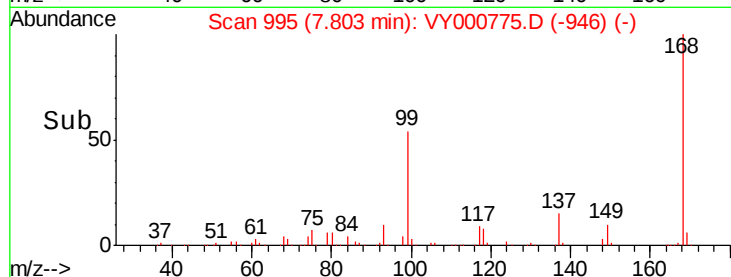
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 3.418 ug/l

RT: 4.10 min Scan# 387

Delta R.T. 0.00 min

Lab File: VY000775.D

Acq: 21 Nov 2019 17:55

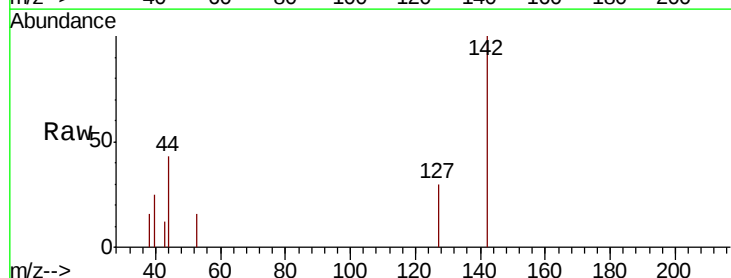
Tgt Ion:142 Resp: 928

Ion Ratio Lower Upper

142 100

127 31.6 33.7 50.5#

141 0.0 10.9 16.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

600

500

400

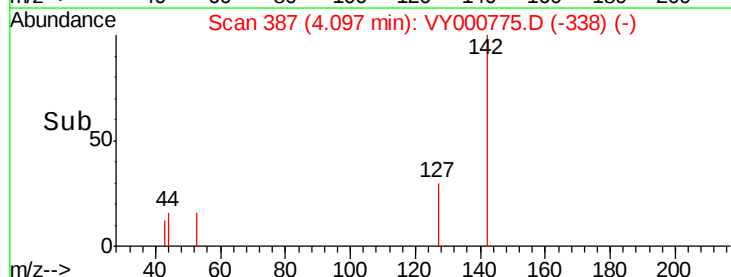
300

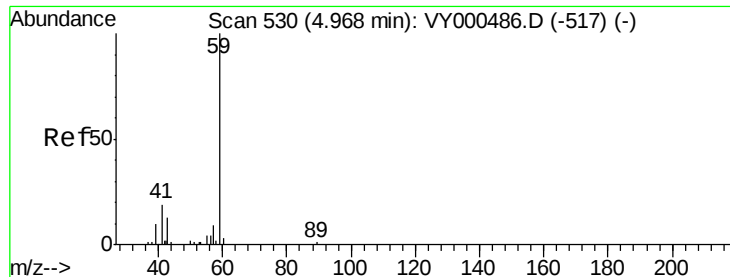
200

100

0

Time-->

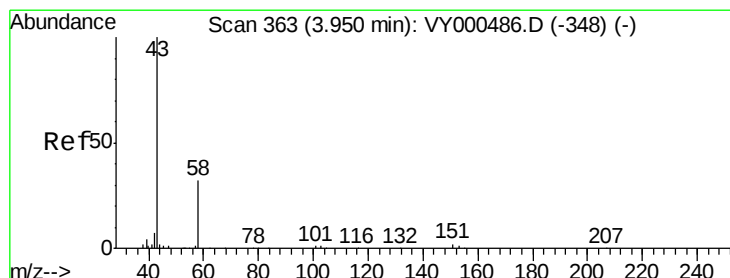
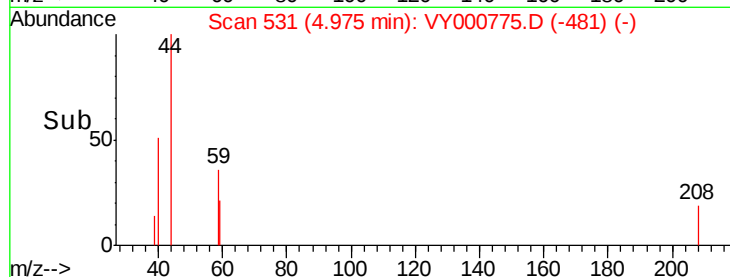
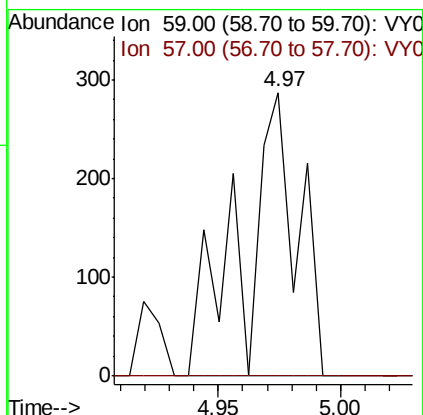
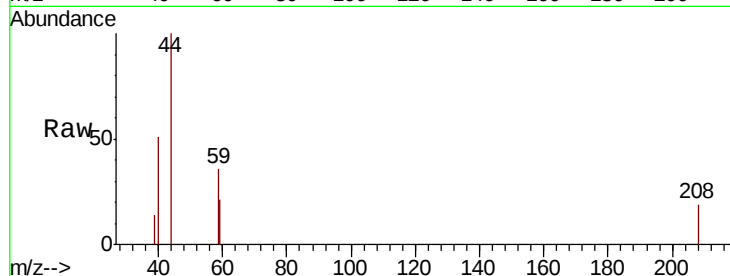




#11
Tert butyl alcohol
Concen: 1.519 ug/l
RT: 4.97 min Scan# 531
Delta R.T. 0.01 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

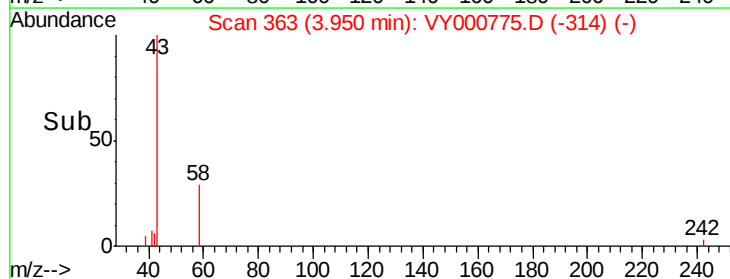
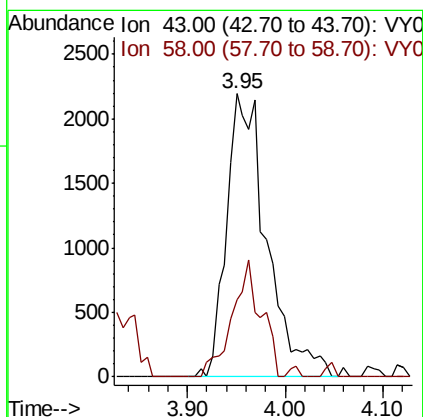
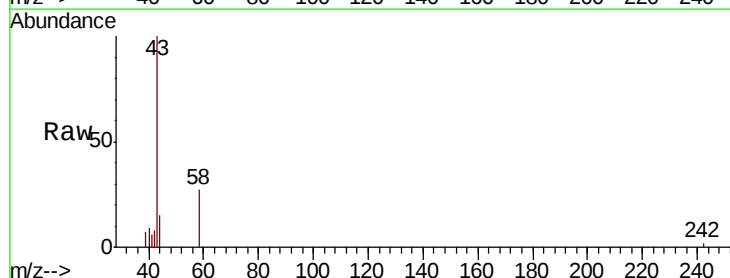
Instrument :
MSVOA_Y
ClientSampleId :

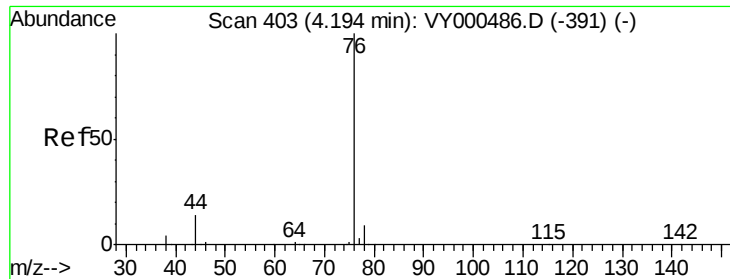
Tot Ion: 59 Resp: 450
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 7.446 ug/l
RT: 3.95 min Scan# 363
Delta R.T. 0.00 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

Tgt Ion: 43 Resp: 6246
Ion Ratio Lower Upper
43 100
58 27.5 25.8 38.6

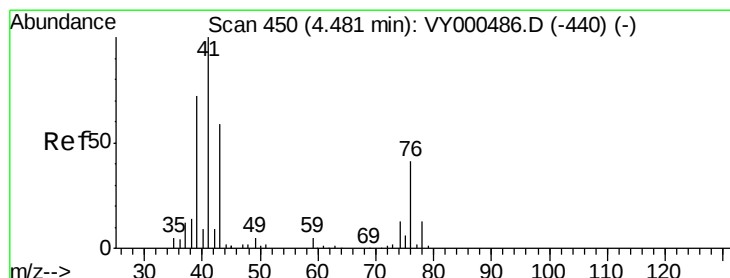
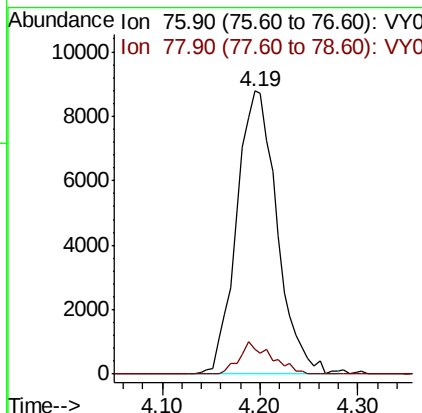
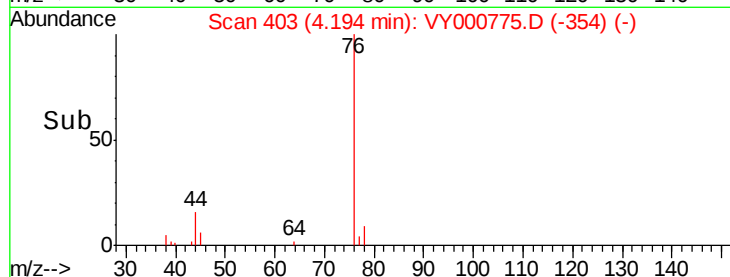
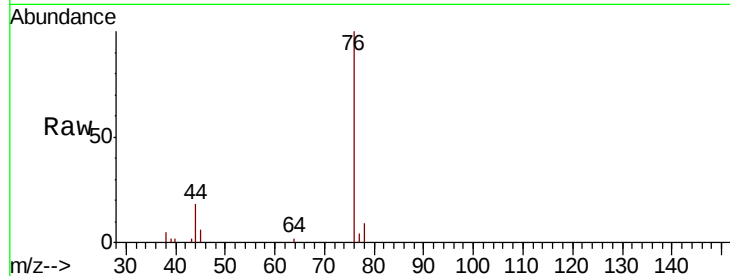




#17
Carbon Disulfide
Concen: 2.728 ug/l
RT: 4.19 min Scan# 403
Delta R.T. 0.00 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

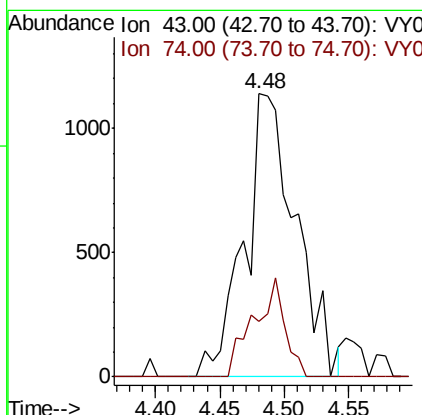
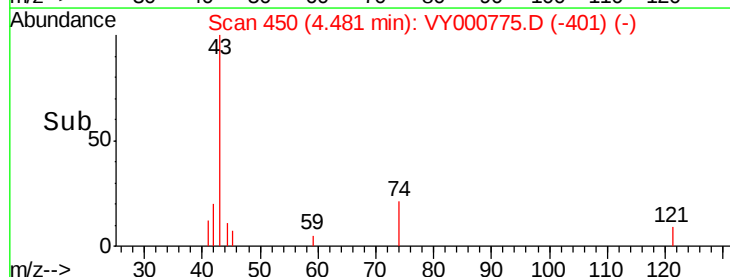
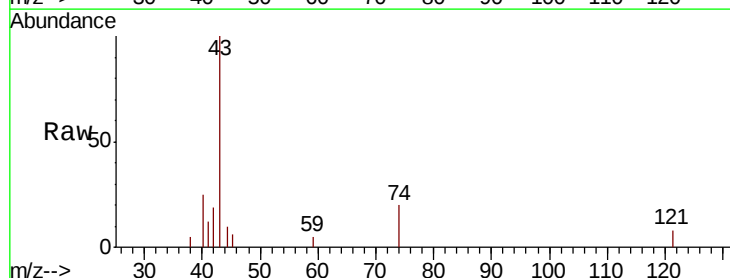
Instrument :
MSVOA_Y
ClientSampleId :

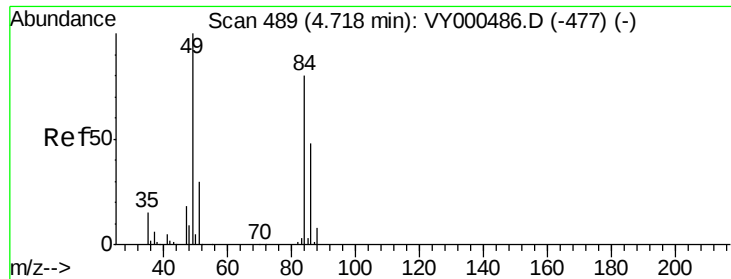
Tot Ion: 76 Resp: 25279
Ion Ratio Lower Upper
76 100
78 8.8 7.5 11.3



#18
Methyl Acetate
Concen: 1.200 ug/l
RT: 4.48 min Scan# 450
Delta R.T. 0.00 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

Tgt Ion: 43 Resp: 3129
Ion Ratio Lower Upper
43 100
74 21.6 19.2 28.8

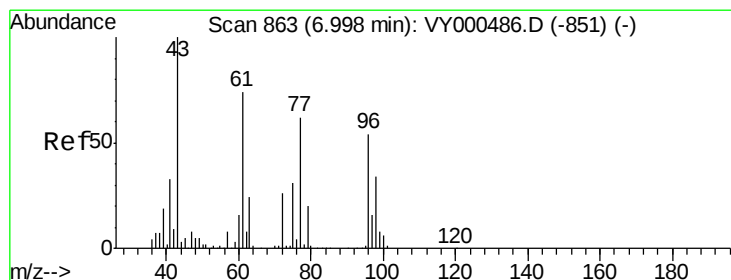
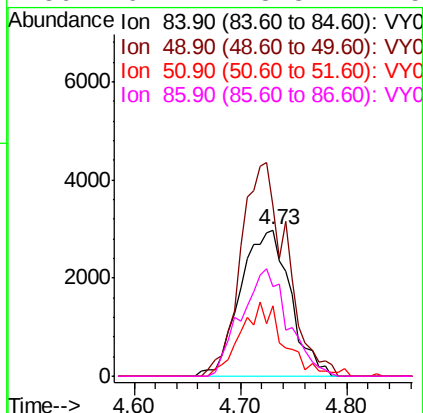
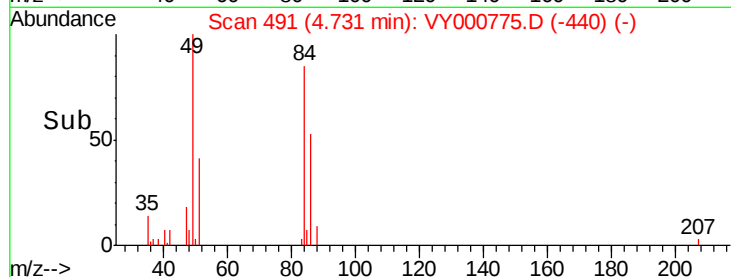
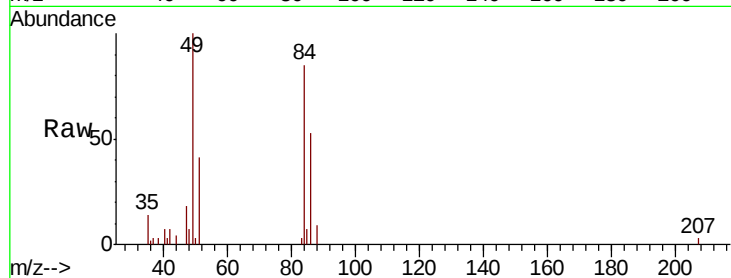




#20
Methvlene Chloride
Concen: 2.726 ug/l
RT: 4.73 min Scan# 491
Delta R.T. 0.01 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

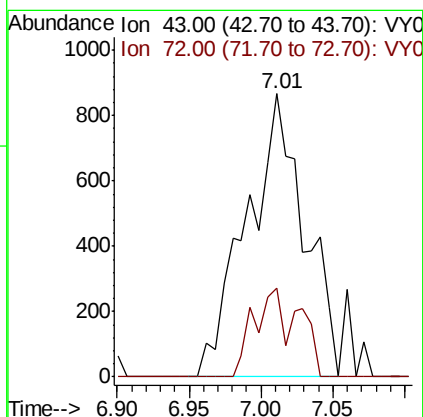
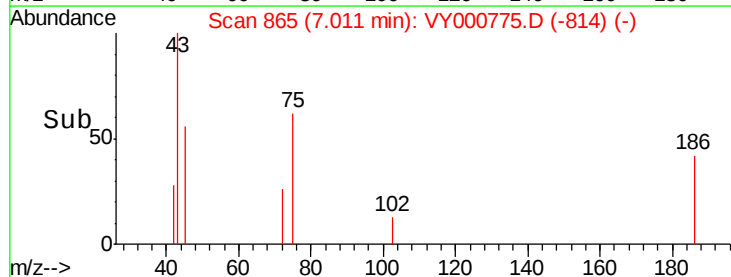
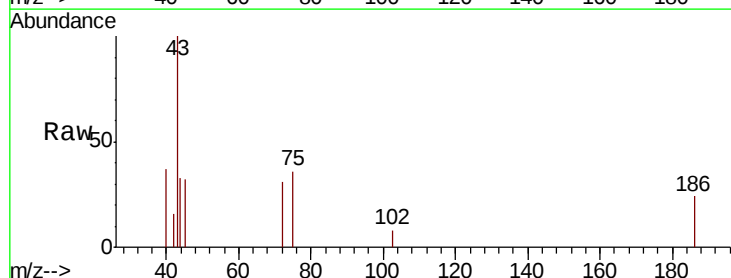
Instrument :
MSVOA_Y
ClientSampleId :

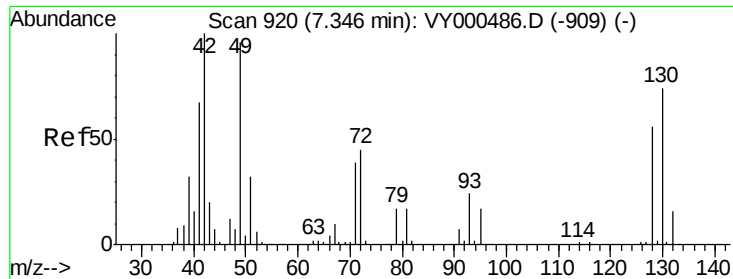
Tot Ion: 84 Resp: 9797
Ion Ratio Lower Upper
84 100
49 117.0 100.2 150.4
51 48.5 29.6 44.4#
86 61.7 48.3 72.5



#25
2-Butanone
Concen: 1.803 ug/l
RT: 7.01 min Scan# 865
Delta R.T. 0.01 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

Tgt Ion: 43 Resp: 2414
Ion Ratio Lower Upper
43 100
72 31.4 20.9 31.3#





#28

Bromochloromethane

Concen: 4.261 ug/l

RT: 7.52 min Scan# 949

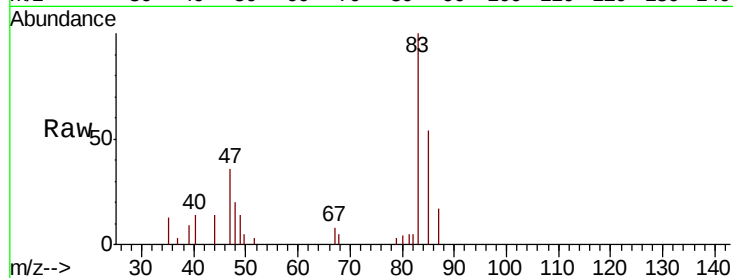
Delta R.T. 0.18 min

Lab File: VY000775.D

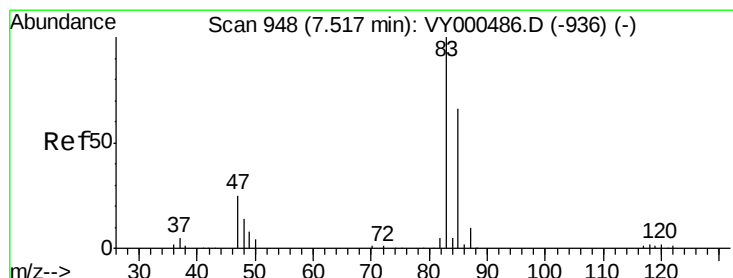
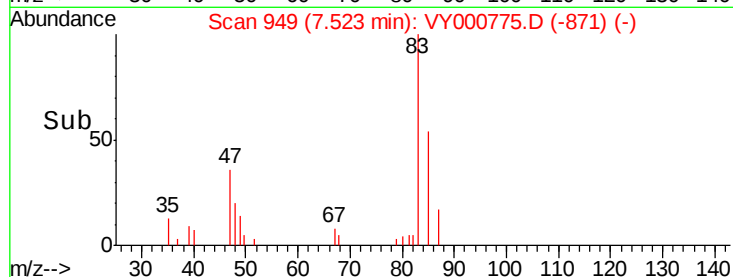
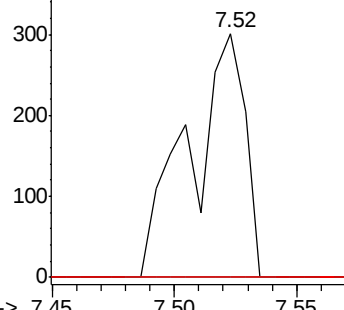
Acq: 21 Nov 2019 17:55

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 49 Resp: 471
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): VY0
Ion 129.80 (129.50 to 130.50): VY0



#30

Chloroform

Concen: 1.019 ug/l

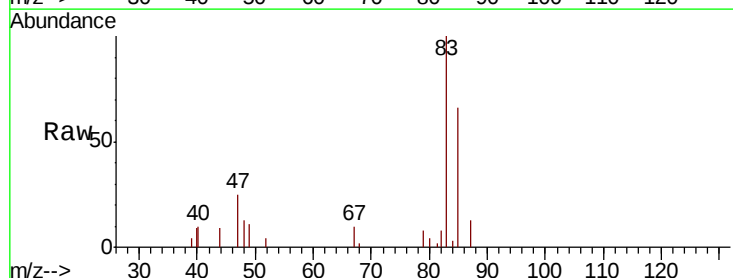
RT: 7.52 min Scan# 948

Delta R.T. 0.00 min

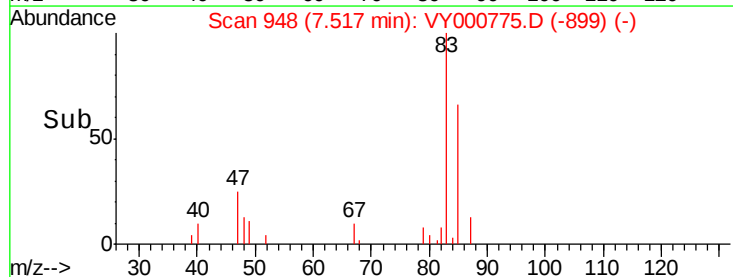
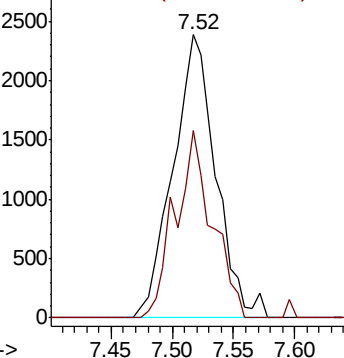
Lab File: VY000775.D

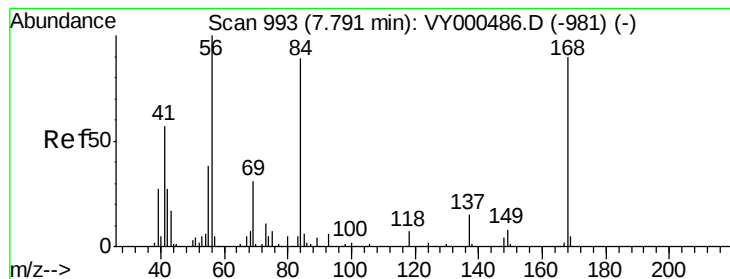
Acq: 21 Nov 2019 17:55

Tgt Ion: 83 Resp: 5796
Ion Ratio Lower Upper
83 100
85 66.1 53.0 79.4



Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 1.167 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY000775.D

Acq: 21 Nov 2019 17:55

Instrument :
MSVOA_Y
ClientSampleId :

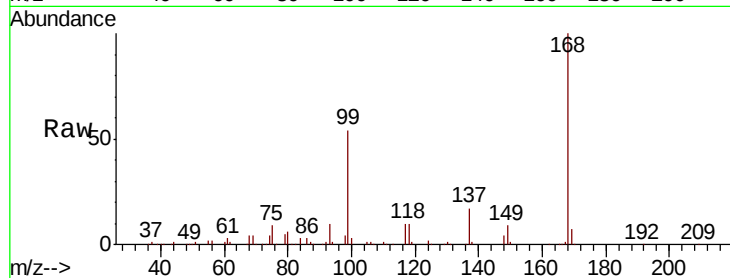
Tot Ion: 56 Resp: 6872

Ion Ratio Lower Upper

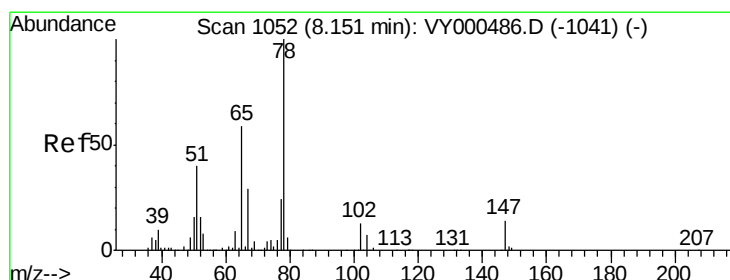
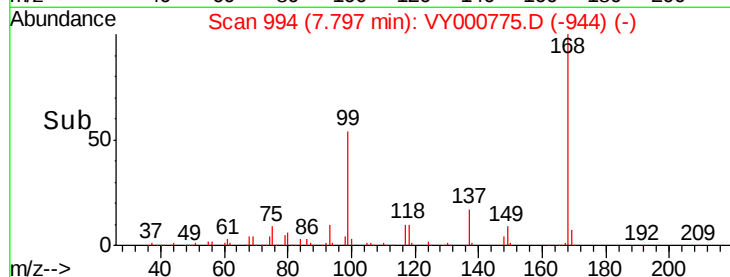
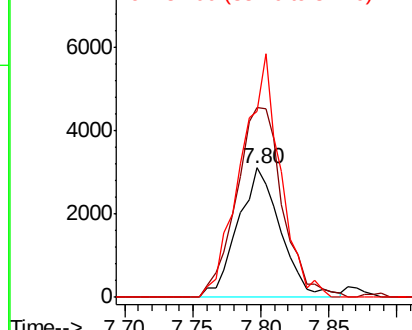
56 100

69 146.7 25.0 37.6#

84 143.9 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: 59.506 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY000775.D

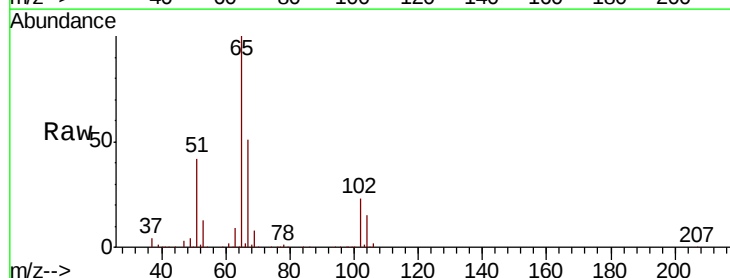
Acq: 21 Nov 2019 17:55

Tgt Ion: 65 Resp: 181098

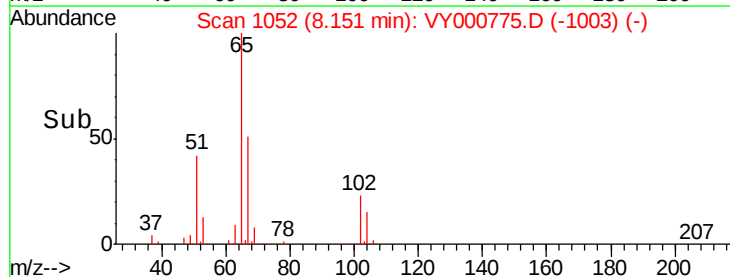
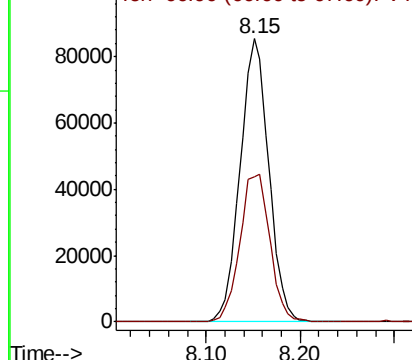
Ion Ratio Lower Upper

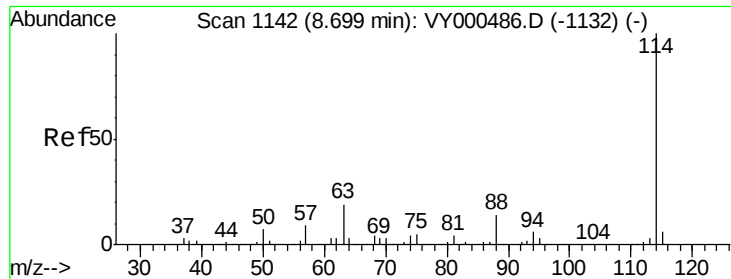
65 100

67 54.7 0.0 107.2



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

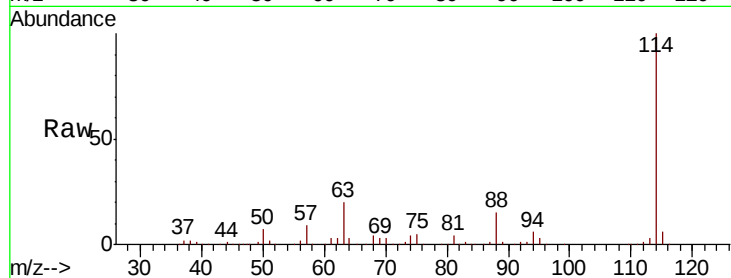




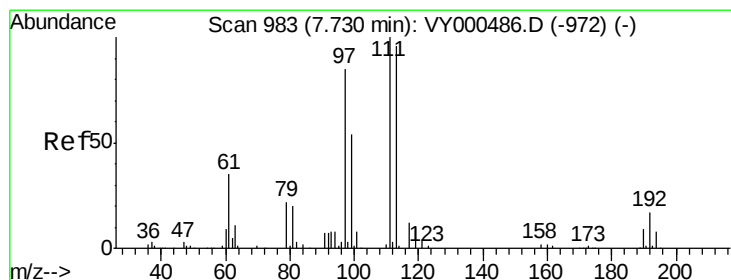
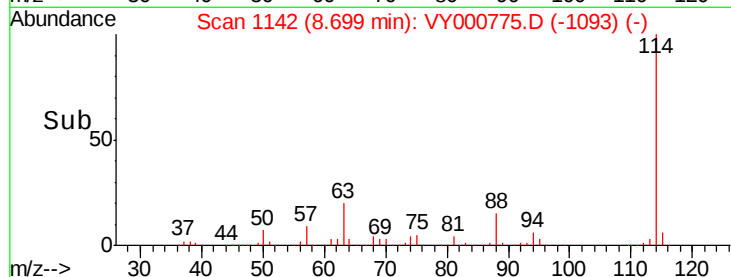
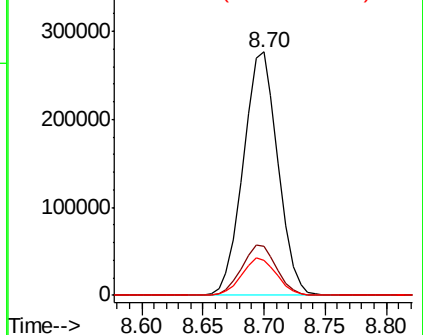
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. 0.00 min
 Lab File: VY000775.D
 Acq: 21 Nov 2019 17:55

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:114 Resp: 545152
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 38.0
 88 14.5 0.0 28.6

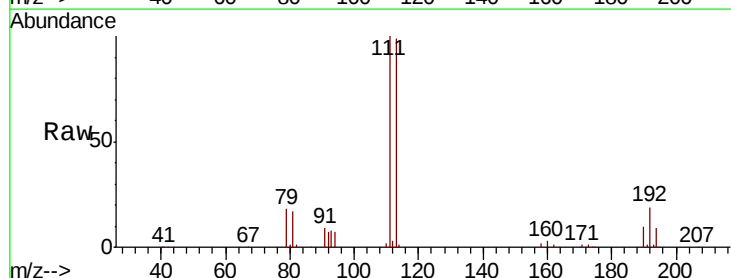


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

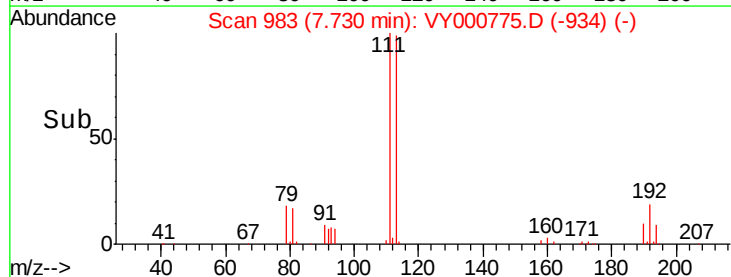
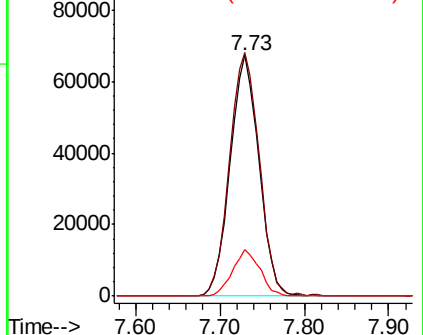


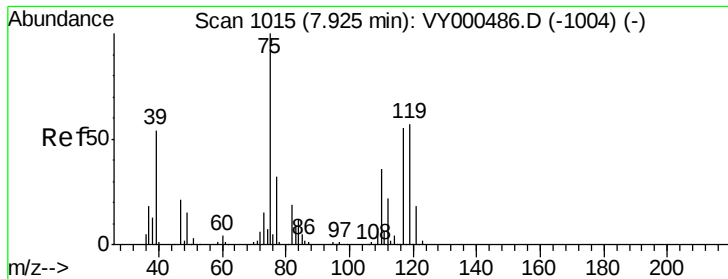
#35
 Dibromofluoromethane
 Concen: 48.668 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: VY000775.D
 Acq: 21 Nov 2019 17:55

Tgt Ion:113 Resp: 155757
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.7 122.5
 192 18.3 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

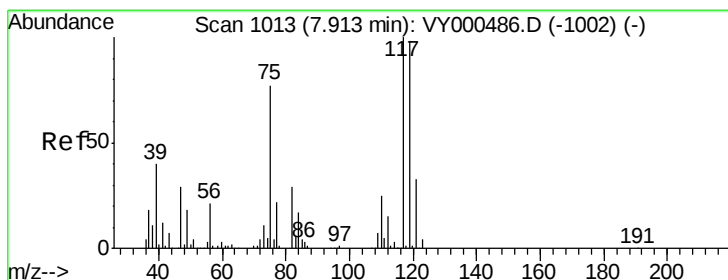
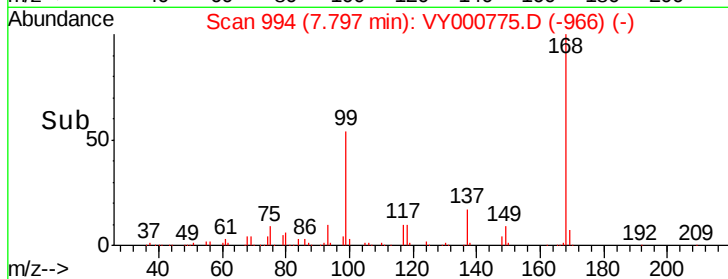
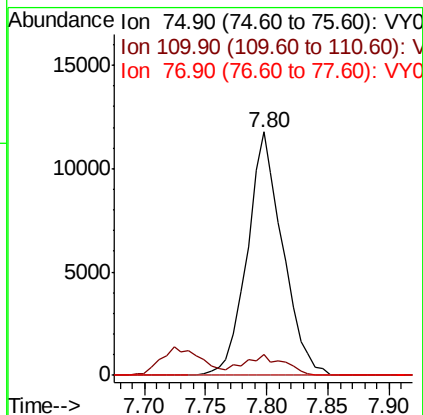
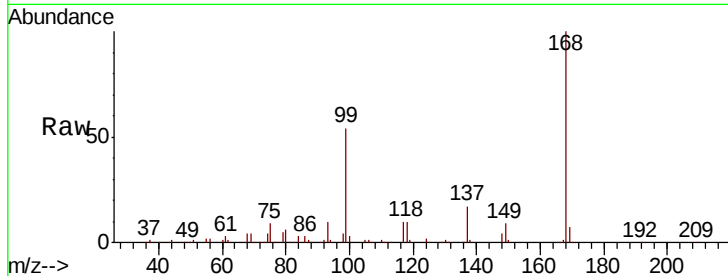




#36
 1,1-Dichloropropene
 Concen: 4.603 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000775.D
 Acq: 21 Nov 2019 17:55

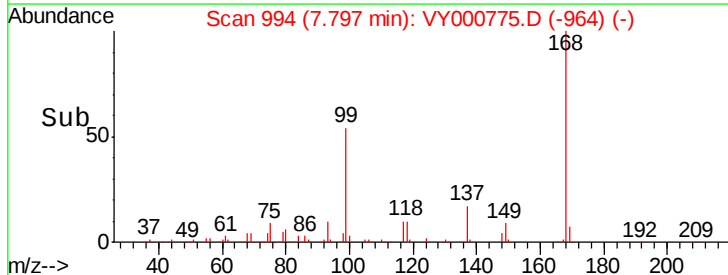
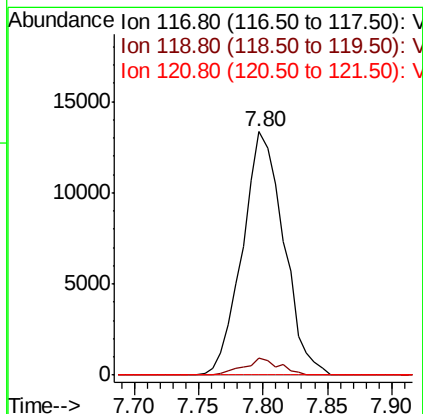
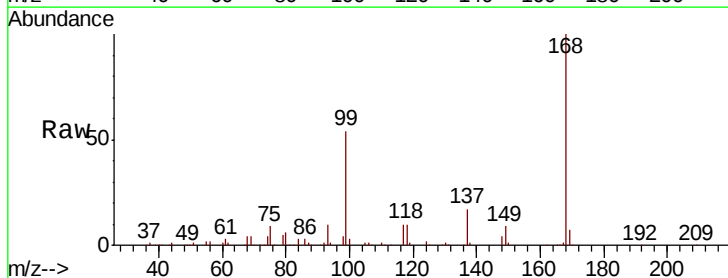
Instrument :
 MSVOA_Y
 ClientSampleId :

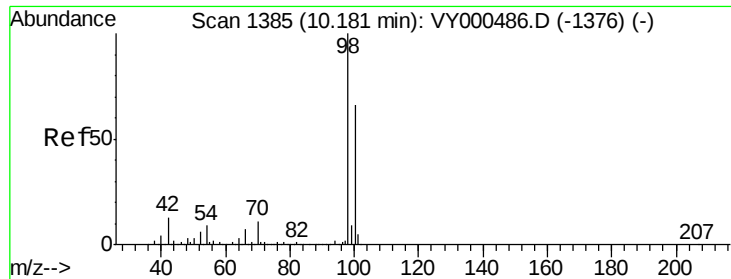
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.1	54.1#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.970 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.12 min
 Lab File: VY000775.D
 Acq: 21 Nov 2019 17:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	78.0	117.0#
121	0.0	26.6	40.0#





#50

Toluene-d8

Concen: 52.527 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY000775.D

Acq: 21 Nov 2019 17:55

Instrument :

MSVOA_Y

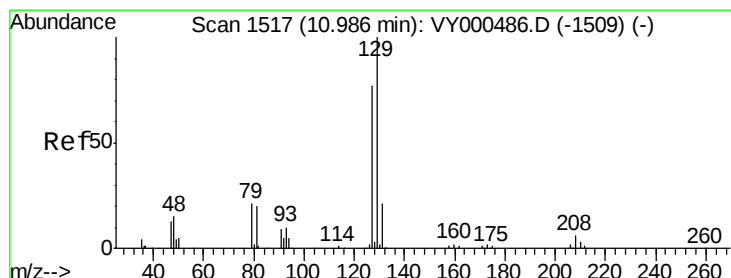
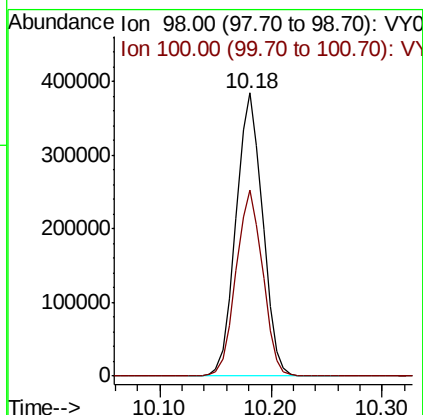
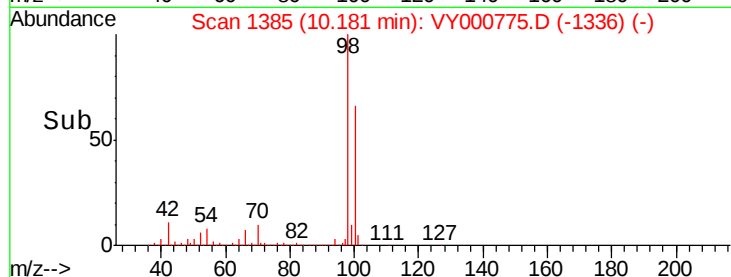
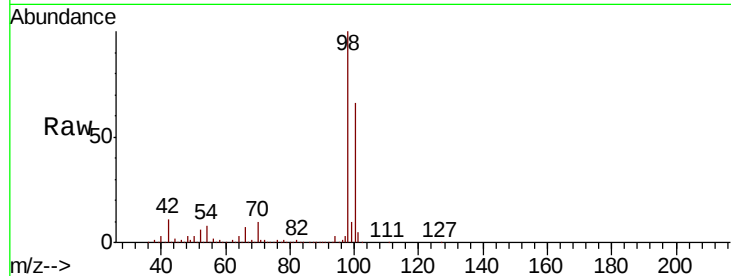
ClientSampleId :

Tot Ion: 98 Resp: 637872

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3



#60

Dibromochloromethane

Concen: 1.623 ug/l

RT: 10.71 min Scan# 1472

Delta R.T. -0.27 min

Lab File: VY000775.D

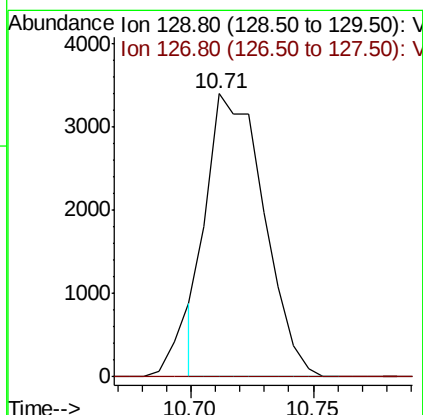
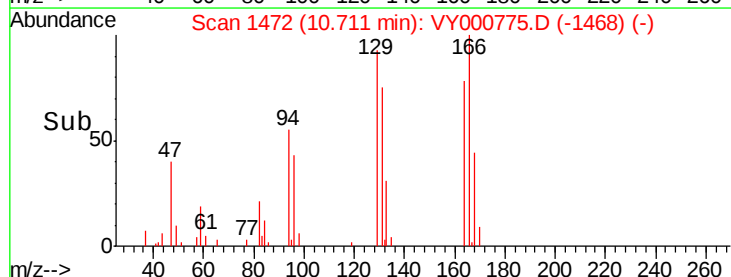
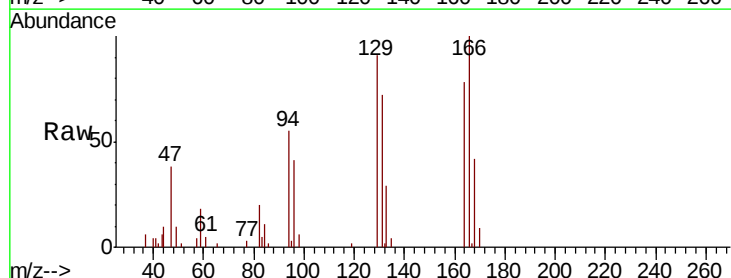
Acq: 21 Nov 2019 17:55

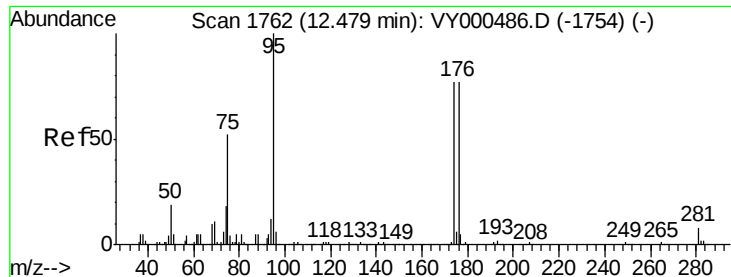
Tgt Ion: 129 Resp: 5498

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#

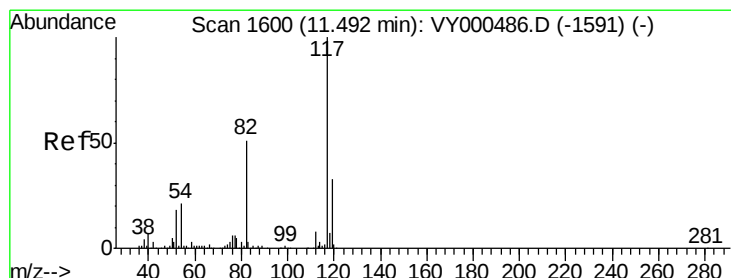
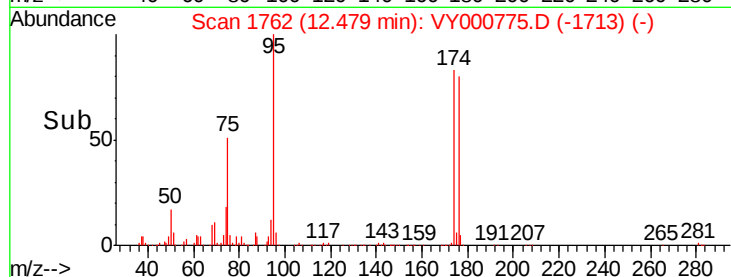
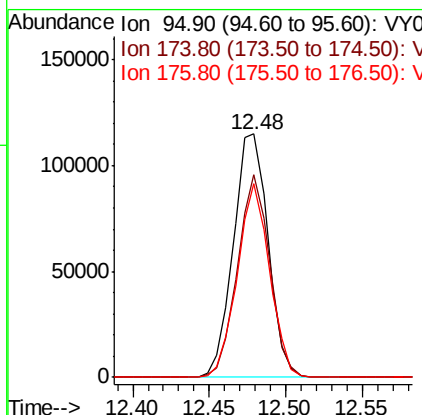
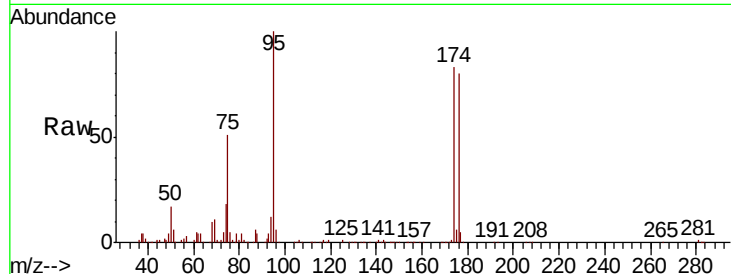




#62
4-Bromofluorobenzene
Concen: 39.010 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

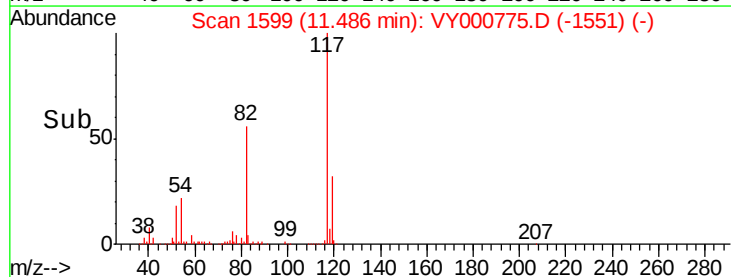
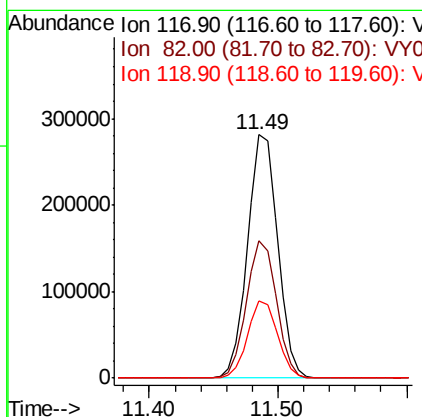
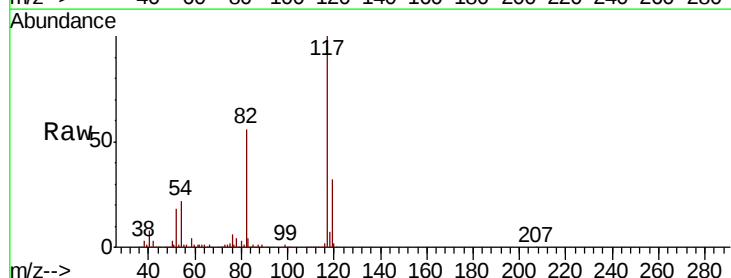
Instrument :
MSVOA_Y
ClientSampleId :

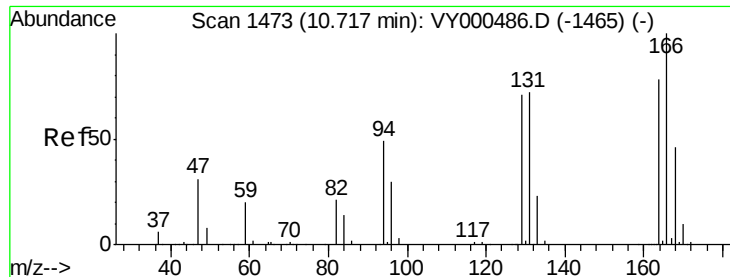
Tot Ion	95	Resp	180346
Ion Ratio	Lower	Upper	
95	100		
174	77.7	0.0	161.6
176	74.4	0.0	157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000775.D
Acq: 21 Nov 2019 17:55

Tgt Ion	117	Resp	451642
Ion Ratio	Lower	Upper	
117	100		
82	56.3	40.8	61.2
119	31.8	26.2	39.2





#64

Tetrachloroethene

Concen: 1.542 ug/l

RT: 10.72 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VY000775.D

Acq: 21 Nov 2019 17:55

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion:164 Resp: 5759

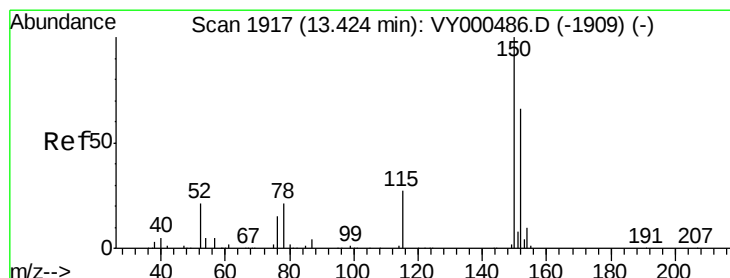
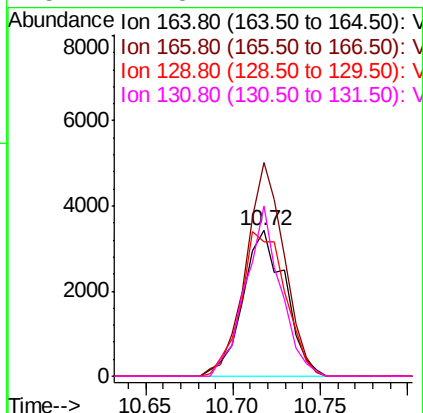
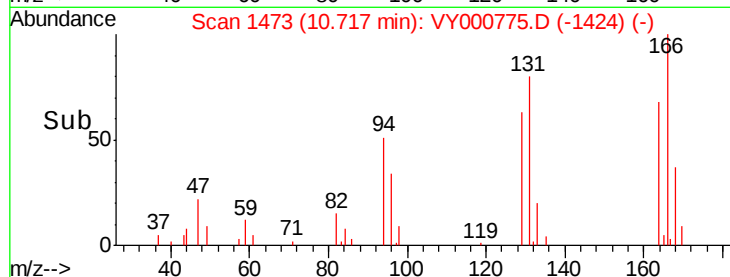
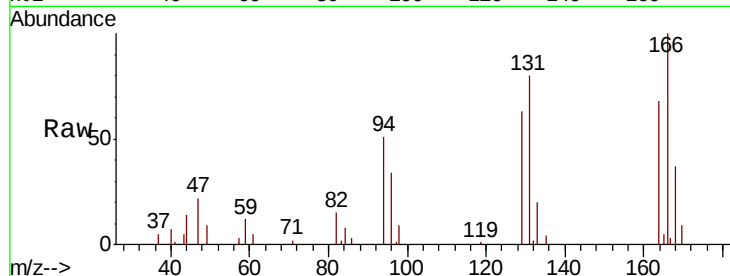
Ion Ratio Lower Upper

164 100

166 146.6 102.7 154.1

129 92.3 73.2 109.8

131 117.3 74.2 111.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1916

Delta R.T. -0.01 min

Lab File: VY000775.D

Acq: 21 Nov 2019 17:55

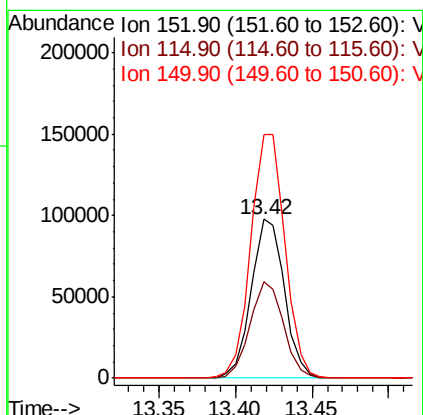
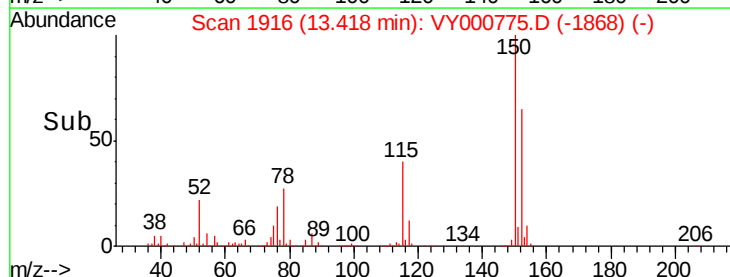
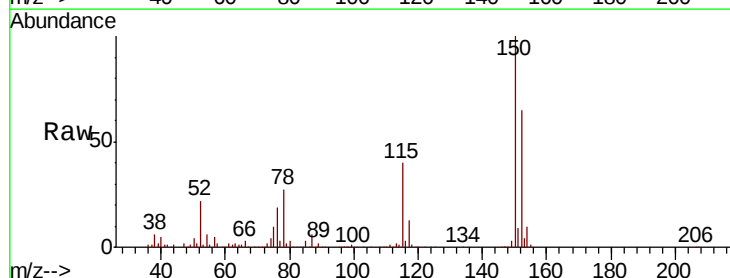
Tgt Ion:152 Resp: 147567

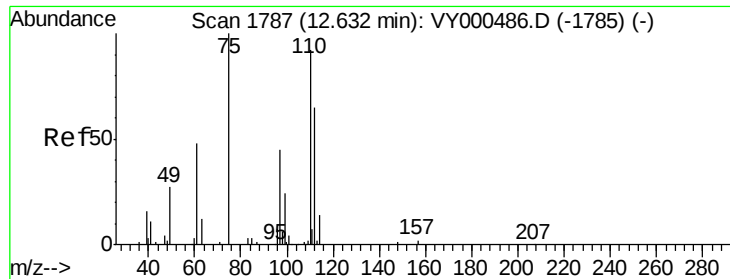
Ion Ratio Lower Upper

152 100

115 61.2 29.1 87.4

150 157.6 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 56.281 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.16 min

Lab File: VY000775.D

Acq: 21 Nov 2019 17:55

Instrument :

MSVOA_Y

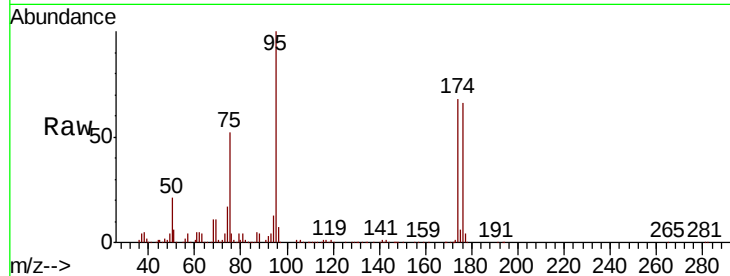
ClientSampleId :

Tot Ion: 75 Resp: 94567

Ion Ratio Lower Upper

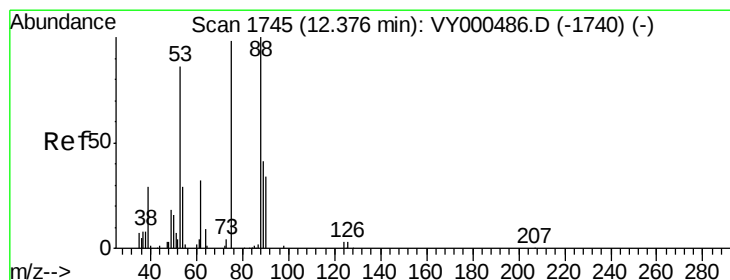
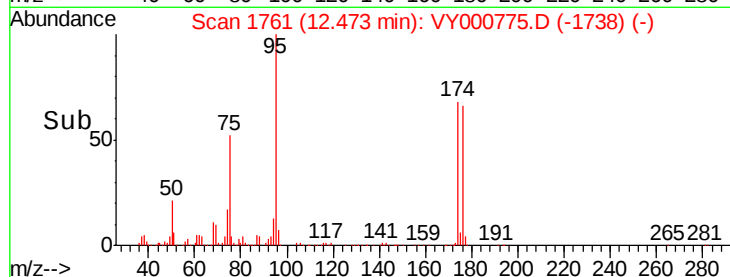
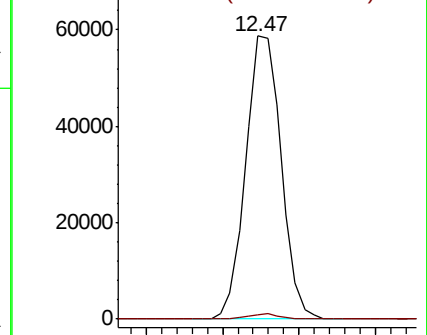
75 100

77 1.8 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: 126.191 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. 0.10 min

Lab File: VY000775.D

Acq: 21 Nov 2019 17:55

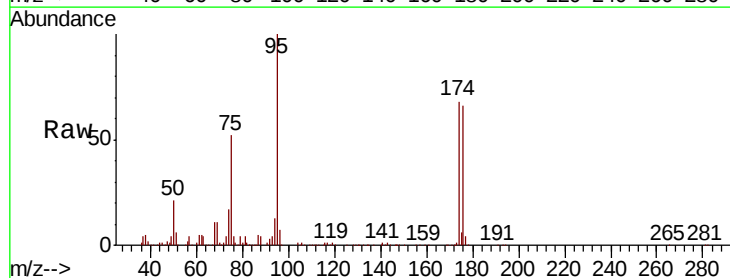
Tgt Ion: 75 Resp: 94567

Ion Ratio Lower Upper

75 100

53 0.1 73.2 109.8#

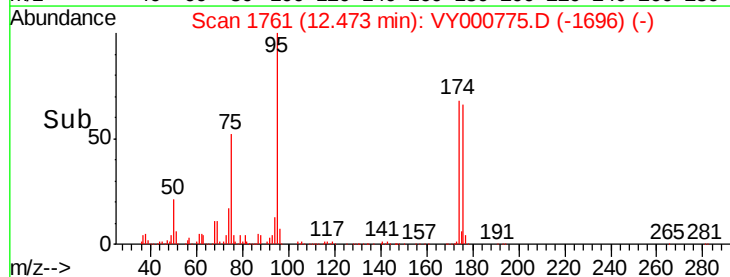
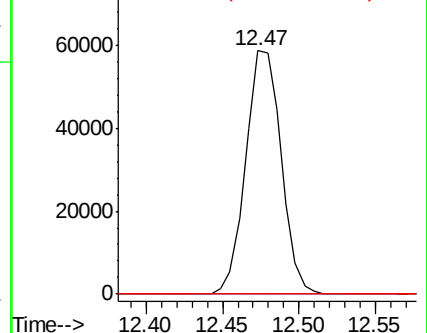
89 0.0 35.9 53.9#

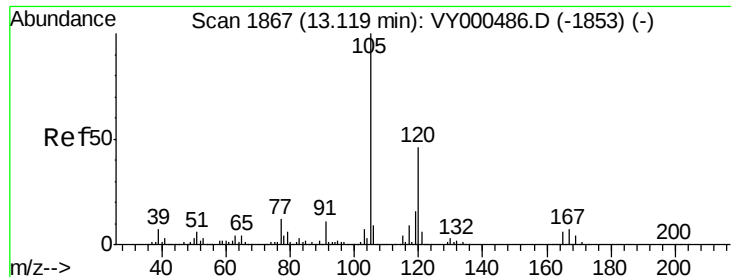


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

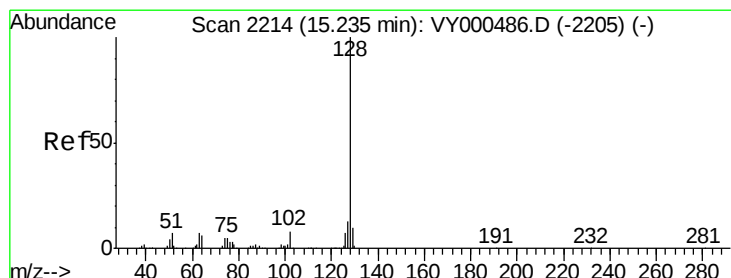
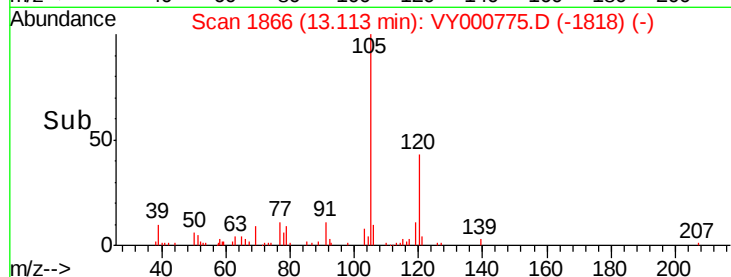
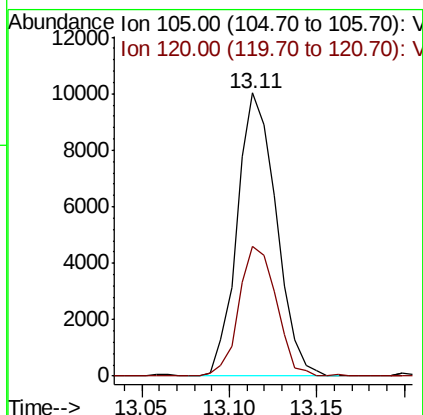
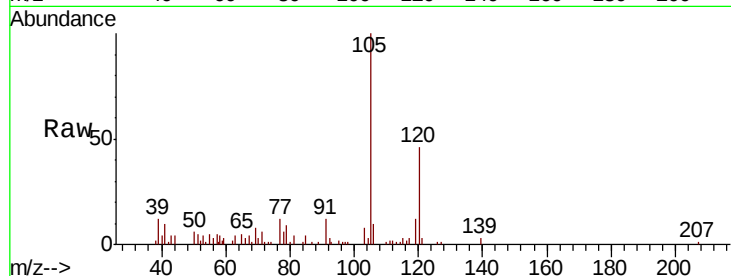




#84
 1,2,4-Trimethylbenzene
 Concen: 1.726 ug/l
 RT: 13.11 min Scan# 1866
 Delta R.T. -0.01 min
 Lab File: VY000775.D
 Acq: 21 Nov 2019 17:55

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion:105 Resp: 15606
 Ion Ratio Lower Upper
 105 100
 120 43.9 23.3 69.9



#95
 Naphthalene
 Concen: 1.424 ug/l
 RT: 15.23 min Scan# 2213
 Delta R.T. -0.01 min
 Lab File: VY000775.D
 Acq: 21 Nov 2019 17:55

Tgt Ion:128 Resp: 9462
 Ion Ratio Lower Upper
 128 100
 127 14.3 9.8 14.6
 129 13.2 8.7 13.1#

