

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112119\
 Data File : VY000770.D
 Acq On : 21 Nov 2019 16:04
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 22 03:14:47 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	366829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	636085	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	567845	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	261793	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	187677	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
35) Dibromofluoromethane	7.73	113	183562	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.18	98	742112	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	12.48	95	266893	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	

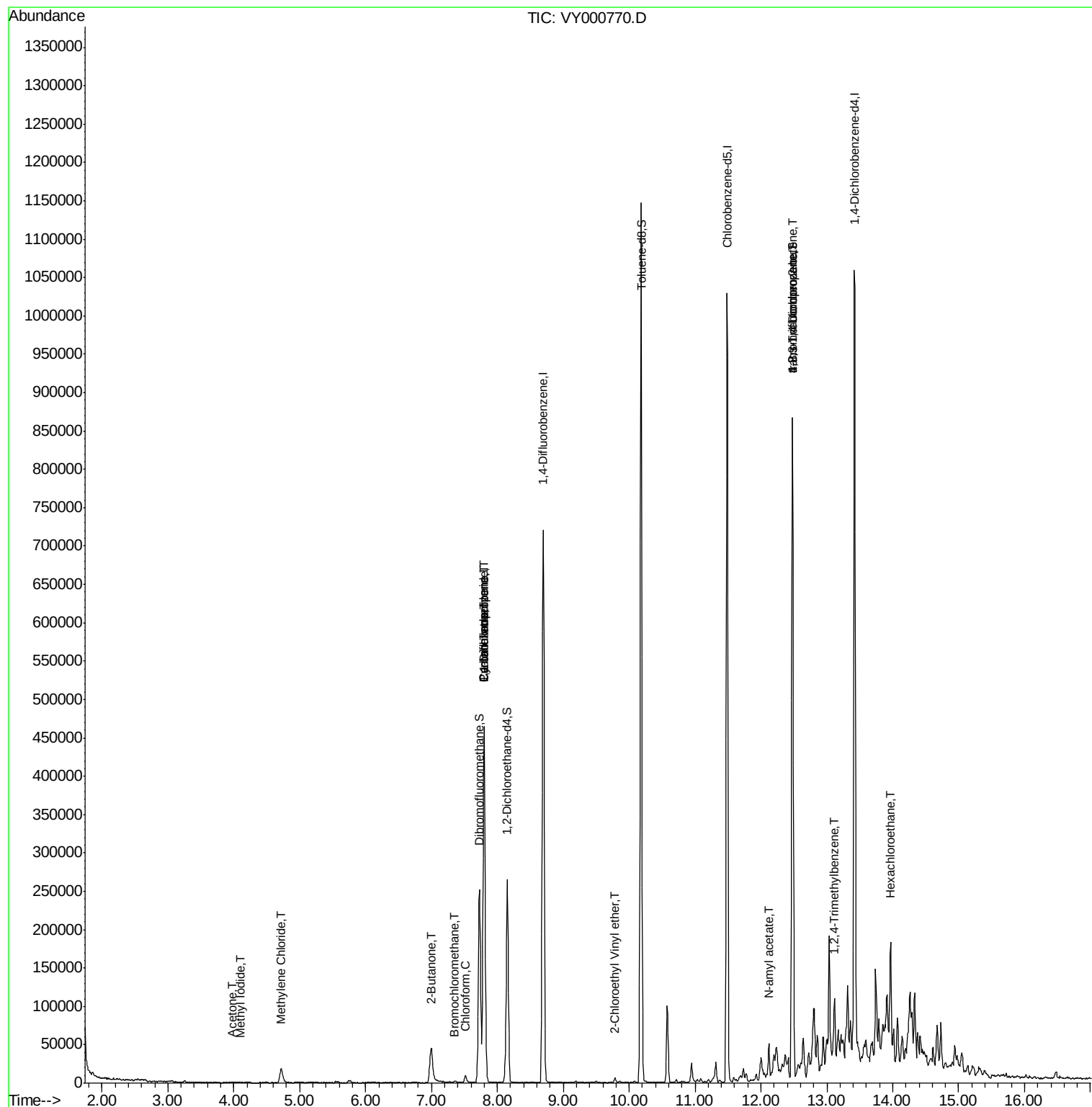
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.11	142	962	3.381	ug/l #	65
16) Acetone	3.97	43	1564	1.495	ug/l #	40
20) Methylene Chloride	4.72	84	13756	3.068	ug/l	94
25) 2-Butanone	6.99	43	2847	1.705	ug/l	97
28) Bromochloromethane	7.35	49	113	4.125	ug/l #	14
30) Chloroform	7.52	83	8132	1.146	ug/l	84
31) Cyclohexane	7.80	56	7441	1.013	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	28479	4.736	ug/l #	49
38) Carbon Tetrachloride	7.80	117	35555	6.145	ug/l #	16
58) 2-Chloroethyl Vinyl ether	9.78	63	2621	1.185	ug/l	92
74) N-amyl acetate	12.12	43	8720	1.574	ug/l #	67
76) 1,2,3-Trichloropropane	12.48	75	133698	44.852	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	133698	100.564	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.11	105	43973	2.741	ug/l	99
90) Hexachloroethane	13.97	117	4628	1.433	ug/l #	15

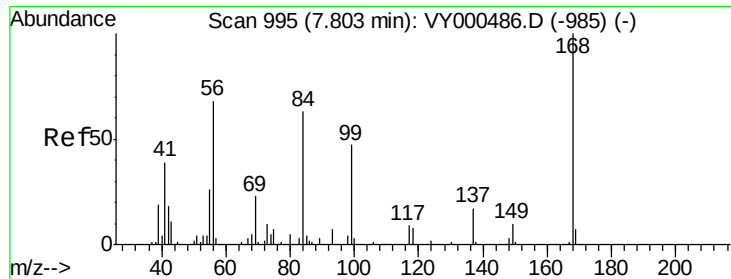
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY000770.D

Acq: 21 Nov 2019 16:04

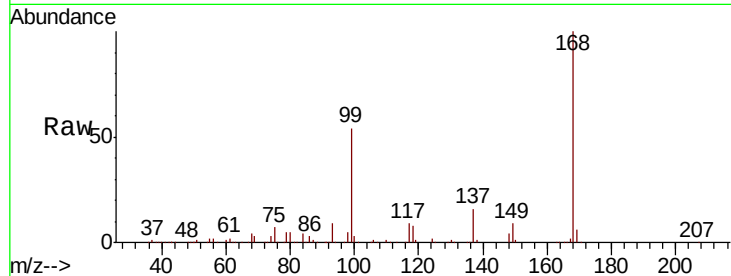
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 366829

Ion Ratio Lower Upper

168 100

99 53.7 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

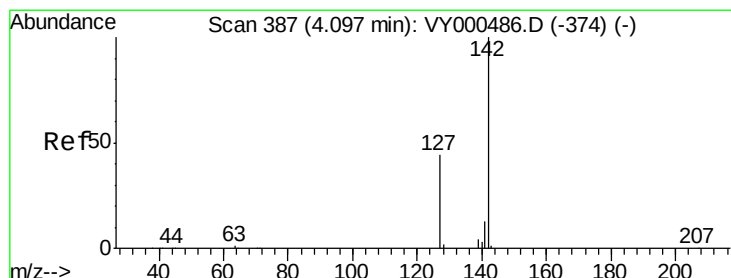
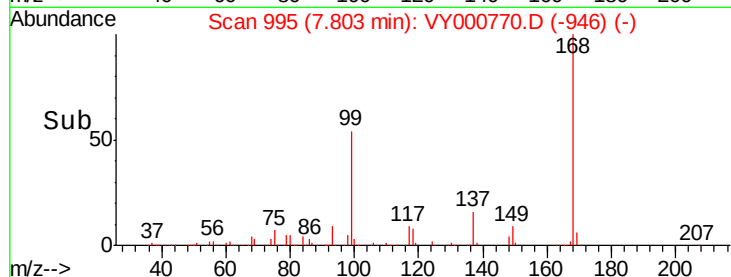
100000

50000

0

7.70 7.80 7.90

Time-->



#10

Methyl Iodide

Concen: 3.381 ug/l

RT: 4.11 min Scan# 389

Delta R.T. 0.01 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

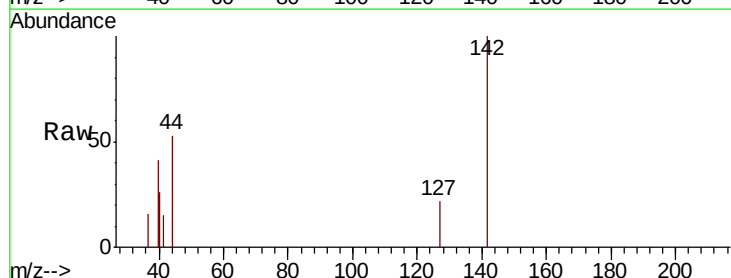
Tgt Ion:142 Resp: 962

Ion Ratio Lower Upper

142 100

127 19.8 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

4.11

500

400

300

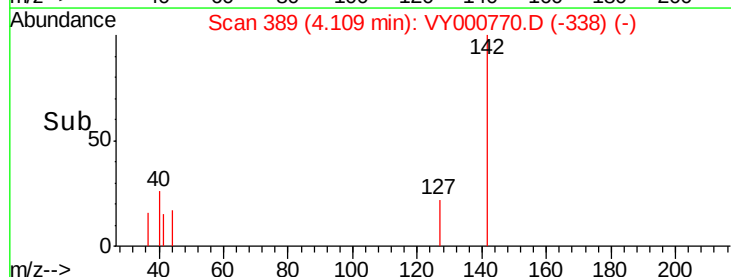
200

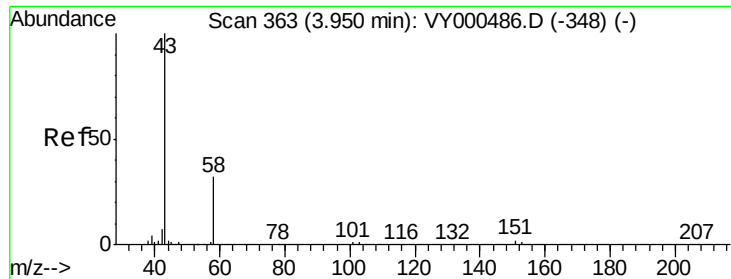
100

0

4.05 4.10 4.15

Time-->





#16

Acetone

Concen: 1.495 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

Instrument :

MSVOA_Y

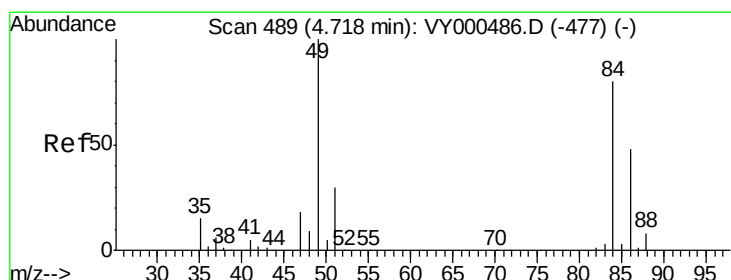
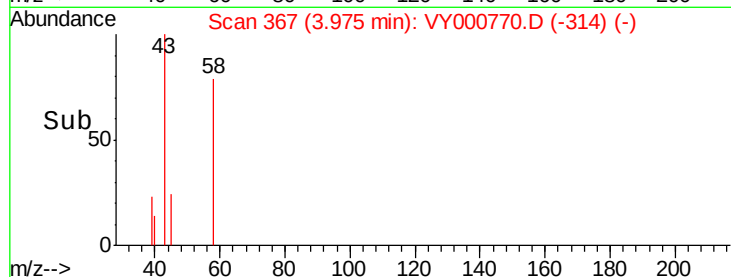
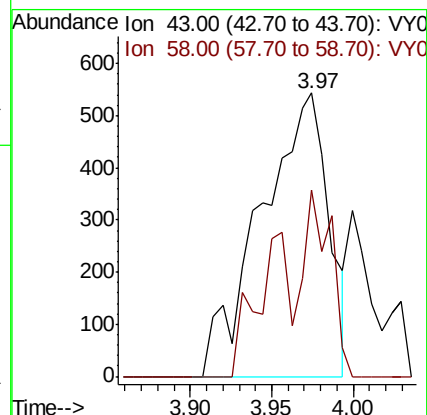
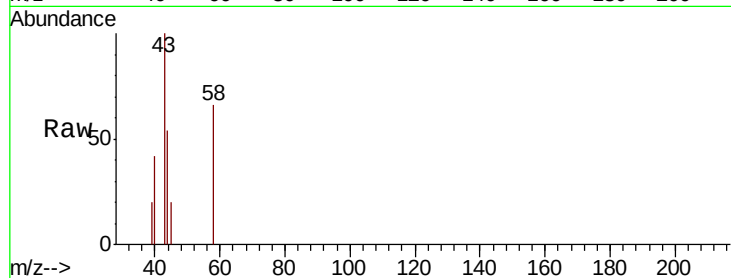
ClientSampleId :

Tot Ion: 43 Resp: 1564

Ion Ratio Lower Upper

43 100

58 65.9 25.8 38.6#



#20

Methylene Chloride

Concen: 3.068 ug/l

RT: 4.72 min Scan# 489

Delta R.T. 0.00 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

Tgt Ion: 84 Resp: 13756

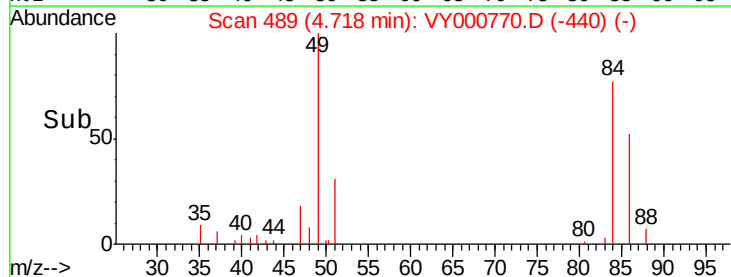
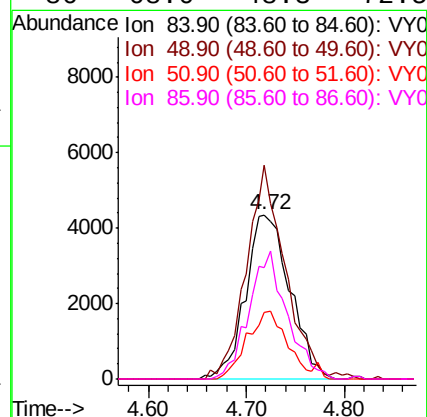
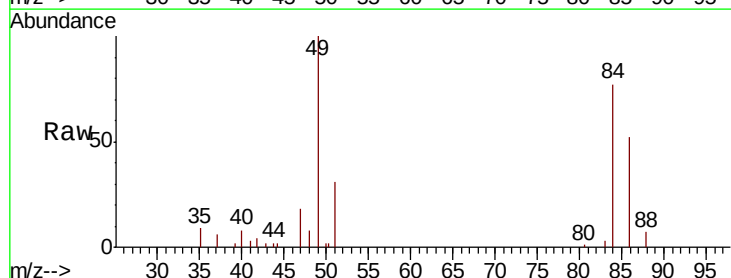
Ion Ratio Lower Upper

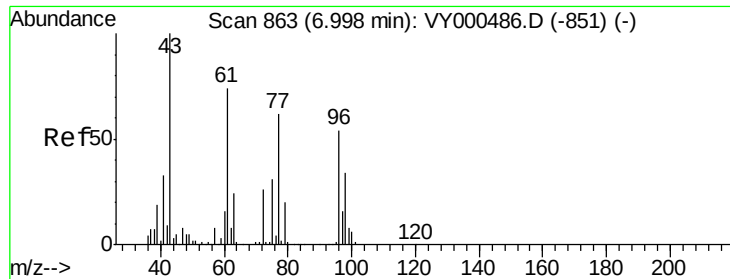
84 100

49 130.4 100.2 150.4

51 41.0 29.6 44.4

86 68.0 48.3 72.5





#25

2-Butanone

Concen: 1.705 ug/l

RT: 6.99 min Scan# 861

Delta R.T. -0.01 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

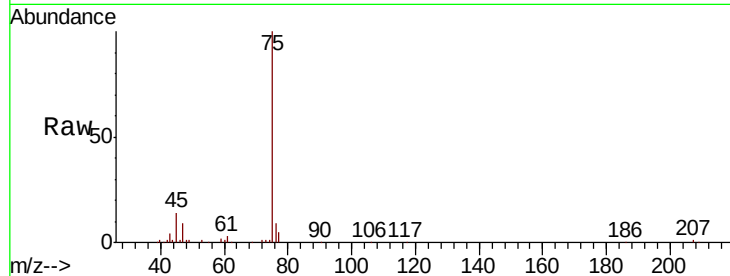
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 2847

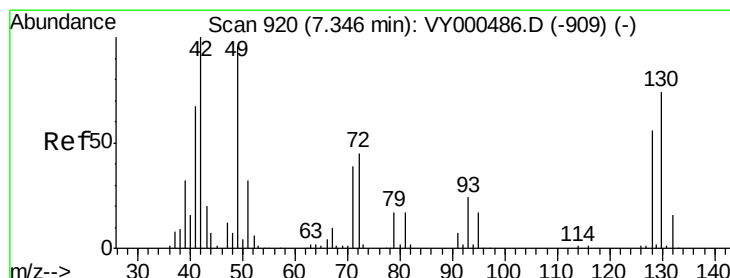
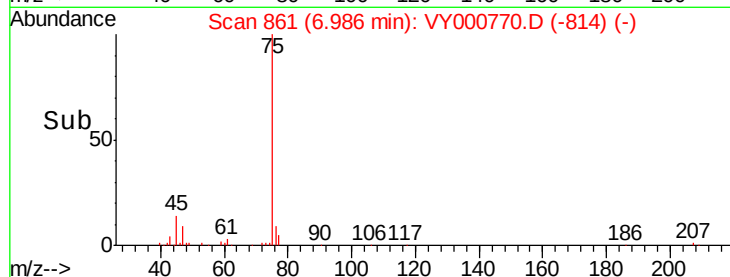
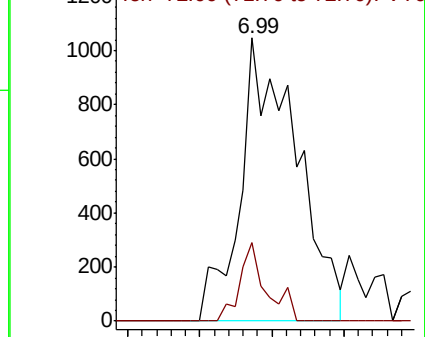
Ion Ratio Lower Upper

43 100

72 27.7 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: 4.125 ug/l

RT: 7.35 min Scan# 920

Delta R.T. 0.00 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

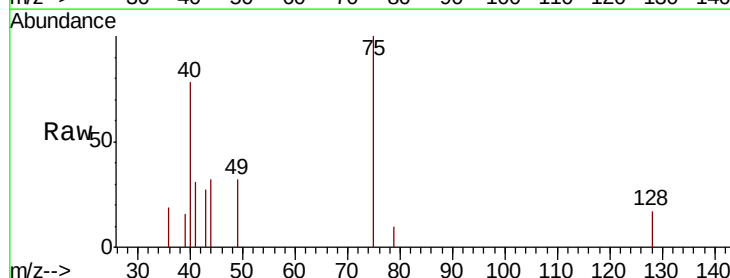
Tgt Ion: 49 Resp: 113

Ion Ratio Lower Upper

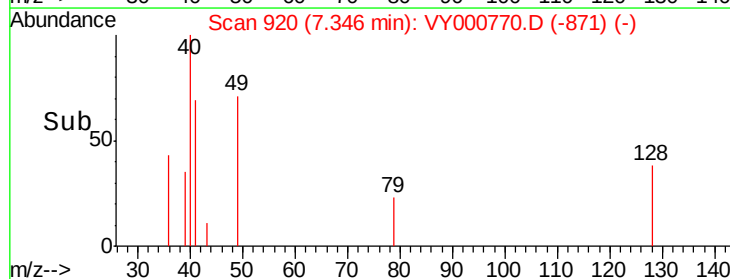
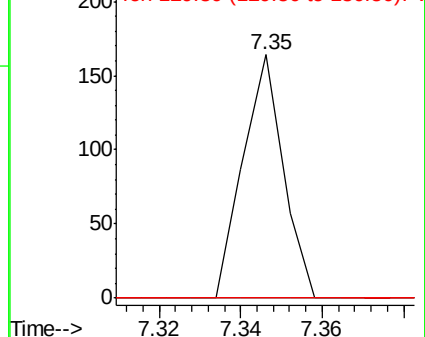
49 100

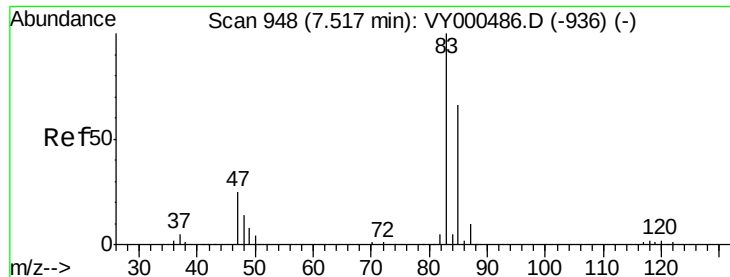
129 0.0 0.0 3.6

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

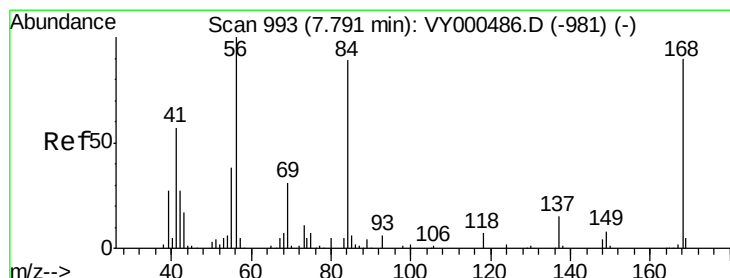
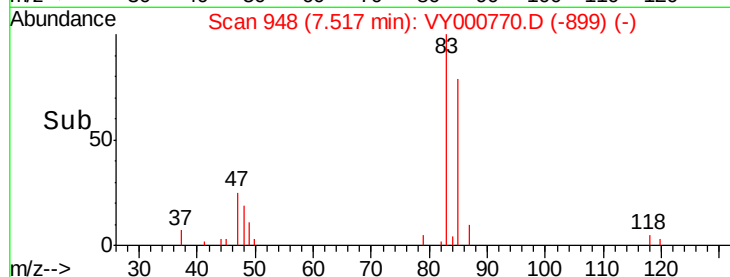
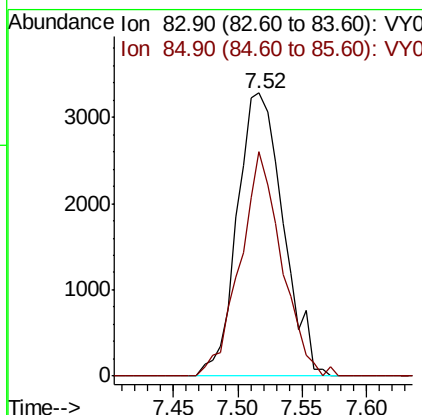
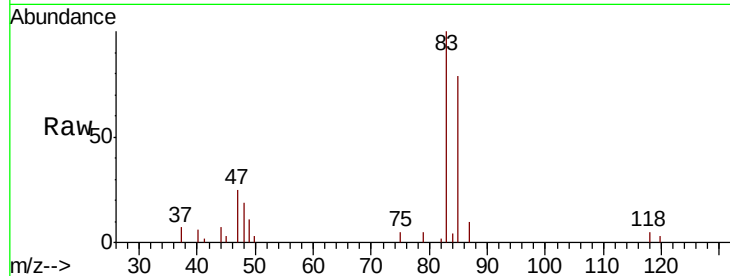




#30
Chloroform
Concen: 1.146 ug/l
RT: 7.52 min Scan# 948
Delta R.T. 0.00 min
Lab File: VY000770.D
Acq: 21 Nov 2019 16:04

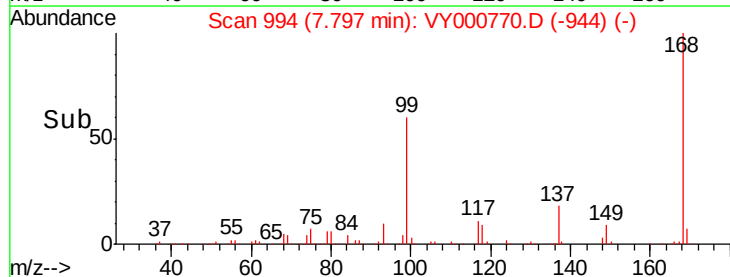
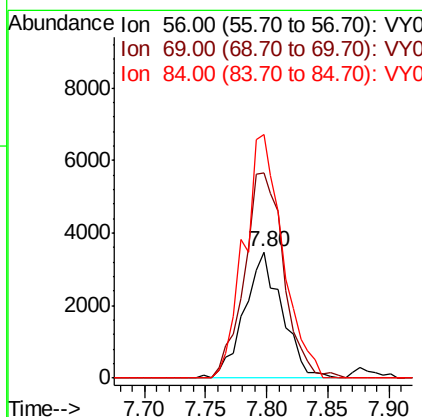
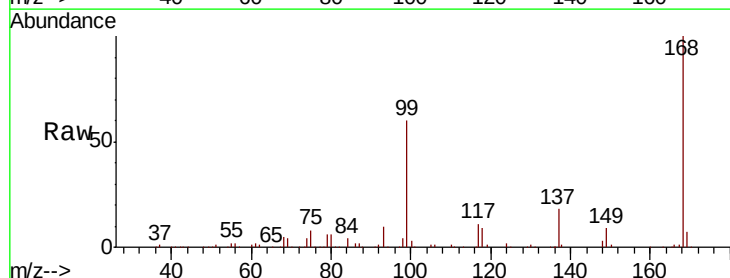
Instrument :
MSVOA_Y
ClientSampleId :

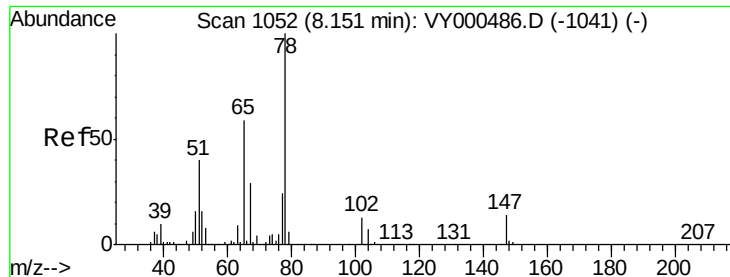
Tot Ion: 83 Resp: 8132
Ion Ratio Lower Upper
83 100
85 79.1 53.0 79.4



#31
Cyclohexane
Concen: 1.013 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.01 min
Lab File: VY000770.D
Acq: 21 Nov 2019 16:04

Tgt Ion: 56 Resp: 7441
Ion Ratio Lower Upper
56 100
69 163.3 25.0 37.6#
84 193.3 71.4 107.2#

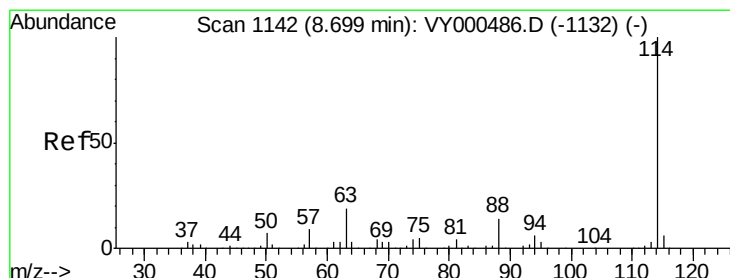
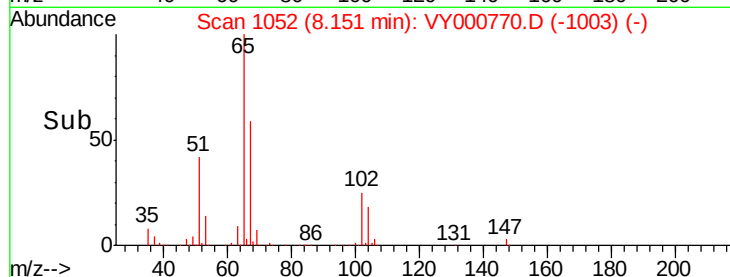
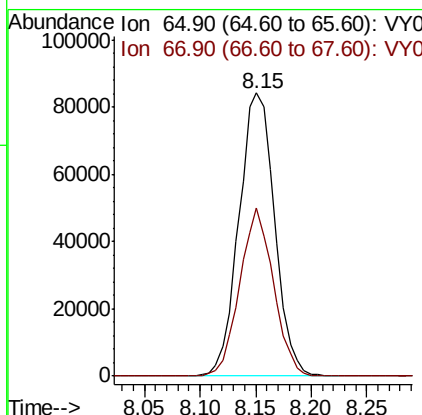
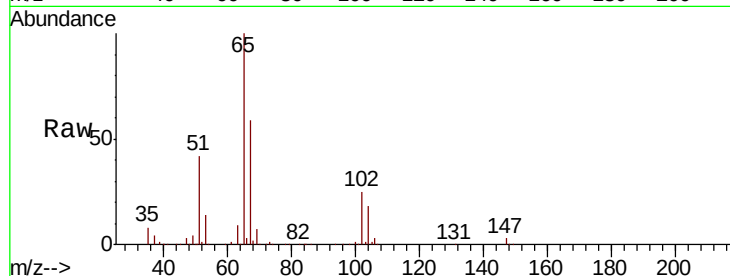




#33
 1,2-Dichloroethane-d4
 Concen: 49.438 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VY000770.D
 Acq: 21 Nov 2019 16:04

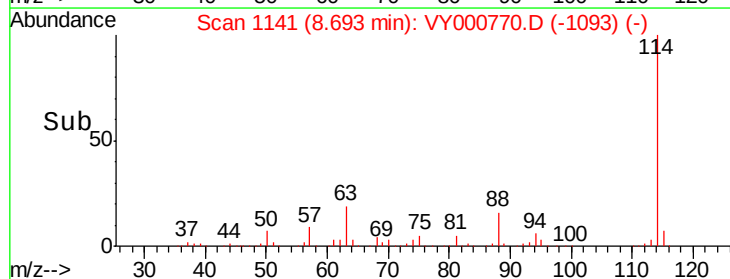
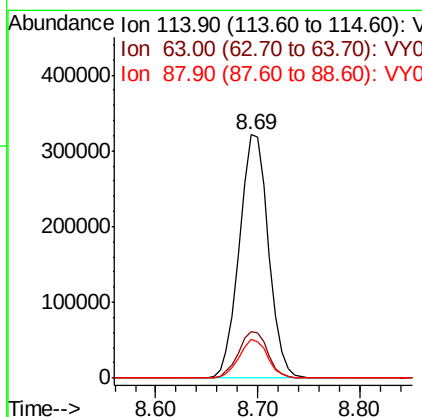
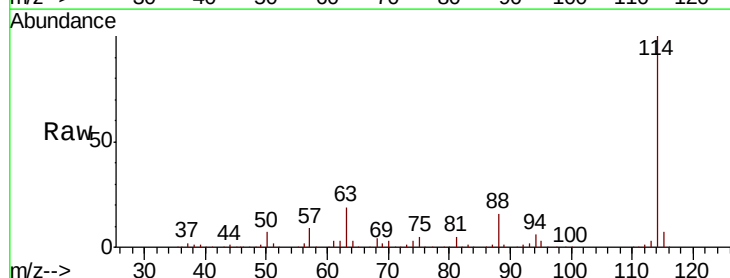
Instrument :
 MSVOA_Y
 ClientSampleId :

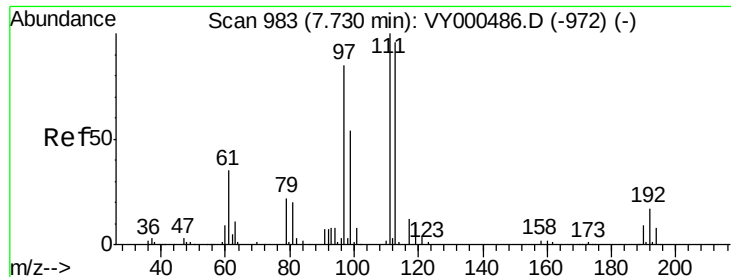
Tot Ion: 65 Resp: 187677
 Ion Ratio Lower Upper
 65 100
 67 56.0 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.01 min
 Lab File: VY000770.D
 Acq: 21 Nov 2019 16:04

Tgt Ion: 114 Resp: 636085
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.0
 88 15.9 0.0 28.6

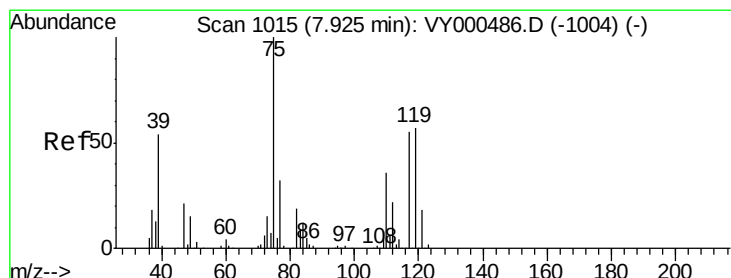
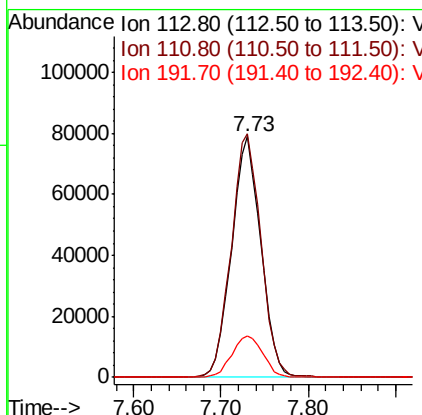
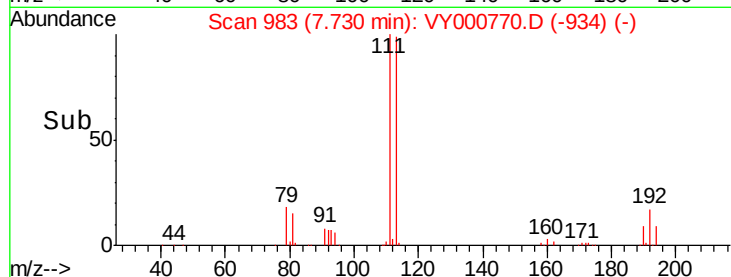
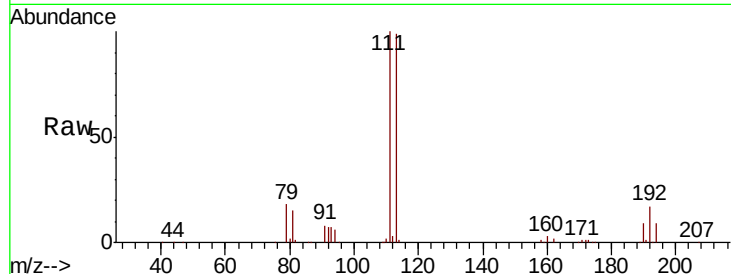




#35
 Dibromofluoromethane
 Concen: 49.157 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: VY000770.D
 Acq: 21 Nov 2019 16:04

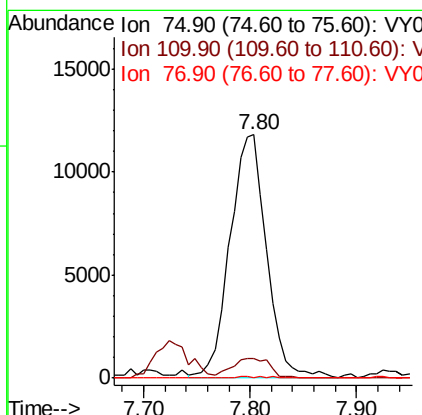
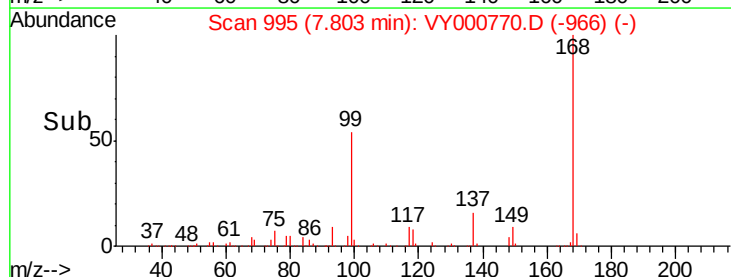
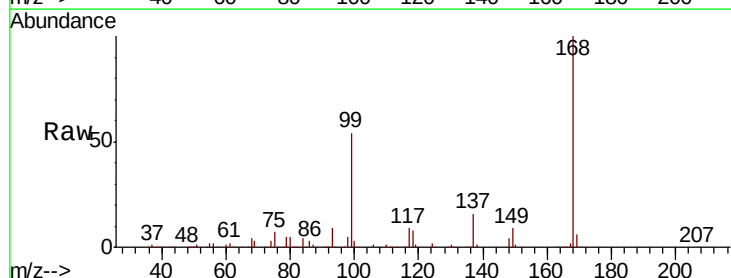
Instrument :
 MSVOA_Y
 ClientSampleId :

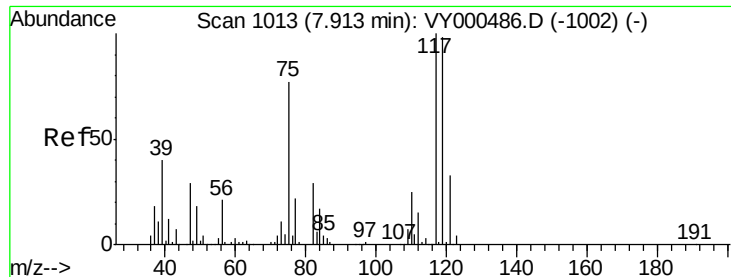
Tot Ion:113 Resp: 183562
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.7 122.5
 192 18.1 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 4.736 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY000770.D
 Acq: 21 Nov 2019 16:04

Tgt Ion: 75 Resp: 28479
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.1 54.1#
 77 0.2 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 6.145 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.12 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

Instrument :

MSVOA_Y

ClientSampleId :

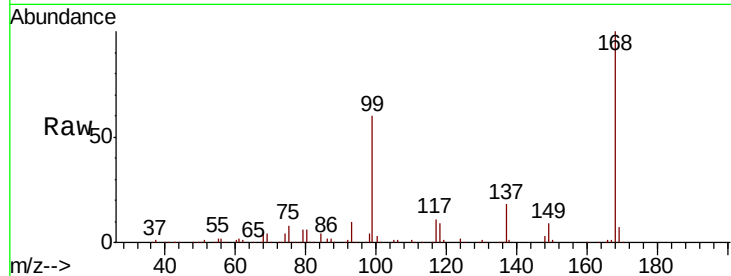
Tot Ion:117 Resp: 35555

Ion Ratio Lower Upper

117 100

119 5.8 78.0 117.0#

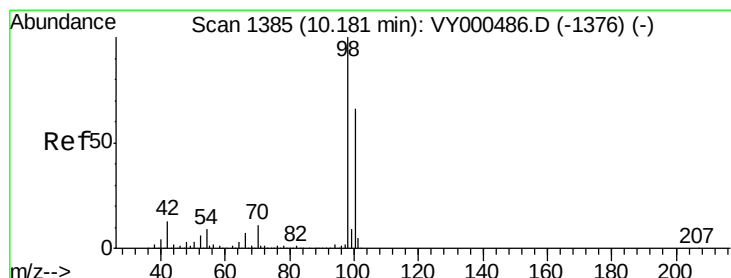
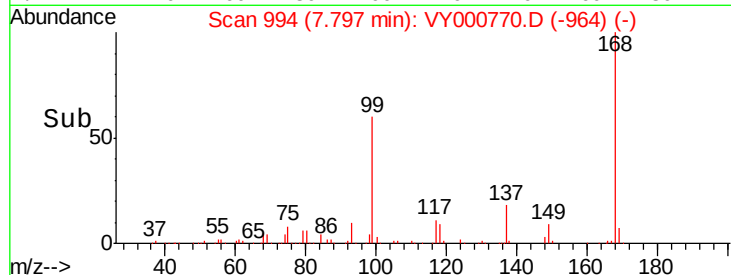
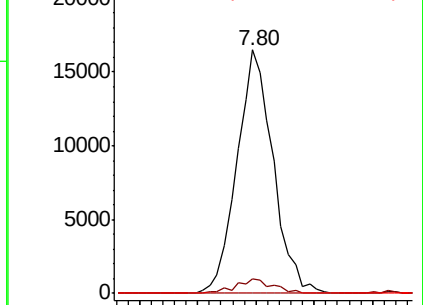
121 0.0 26.6 40.0#



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



#50

Toluene-d8

Concen: 52.374 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY000770.D

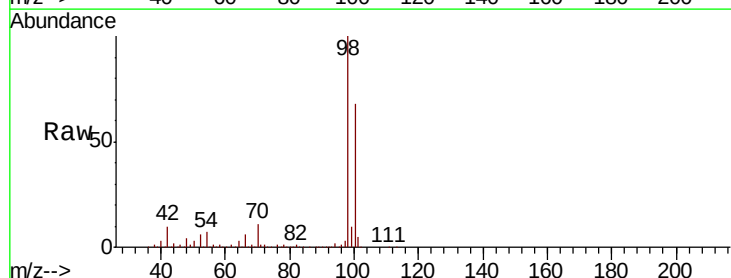
Acq: 21 Nov 2019 16:04

Tgt Ion: 98 Resp: 742112

Ion Ratio Lower Upper

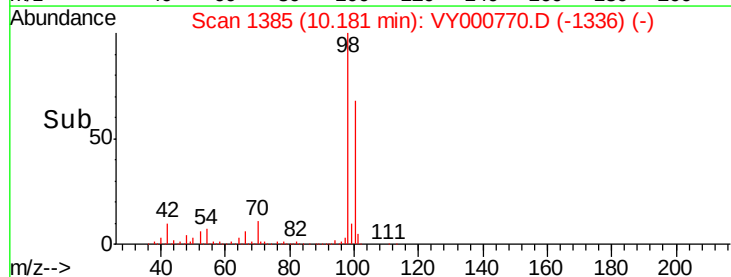
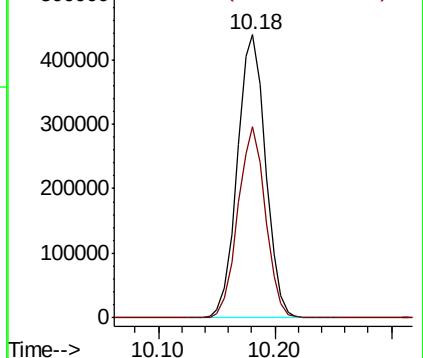
98 100

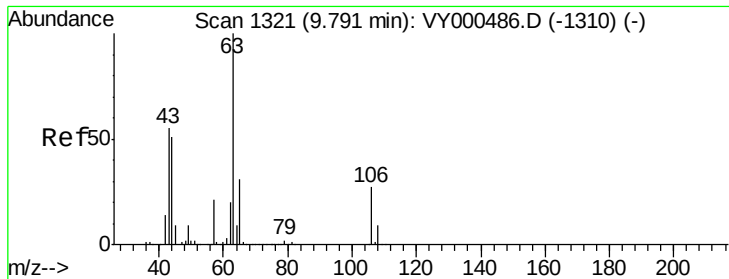
100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#58

2-Chloroethyl Vinyl ether

Concen: 1.185 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. -0.01 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

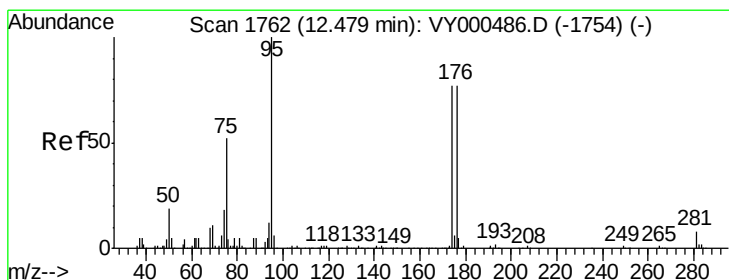
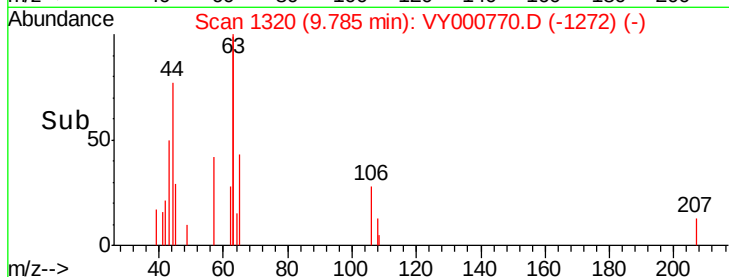
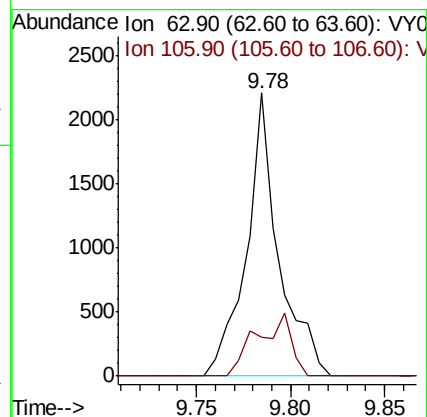
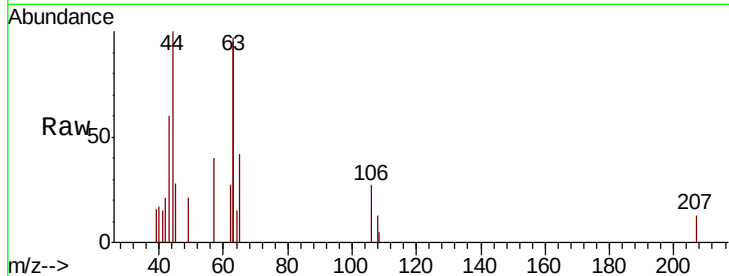
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 63 Resp: 2621

Ion Ratio Lower Upper

63 100

106 24.0 22.6 33.8



#62

4-Bromofluorobenzene

Concen: 49.478 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

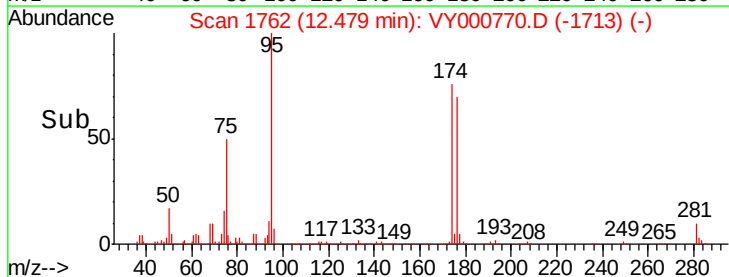
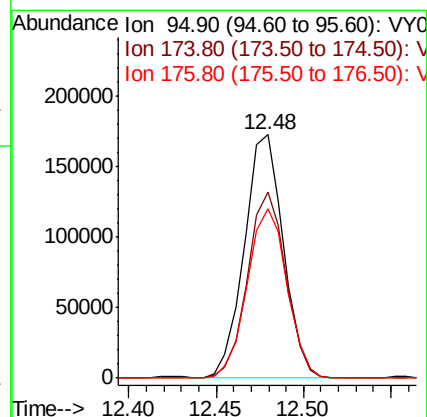
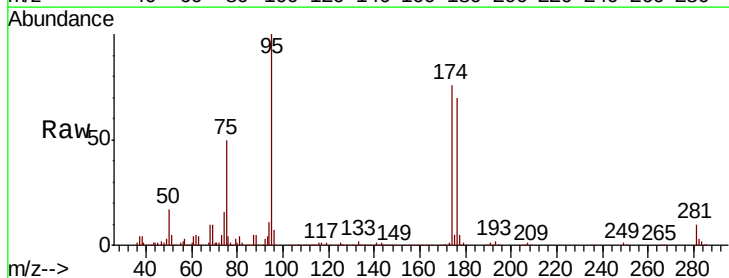
Tgt Ion: 95 Resp: 266893

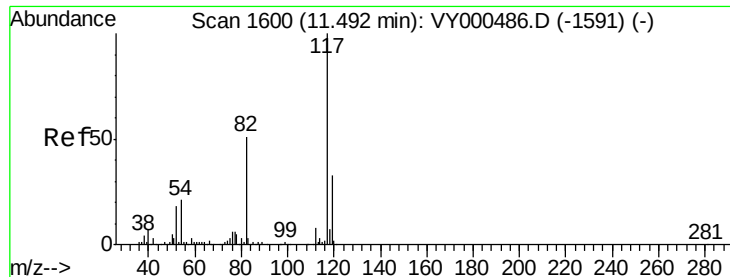
Ion Ratio Lower Upper

95 100

174 75.4 0.0 161.6

176 71.1 0.0 157.8

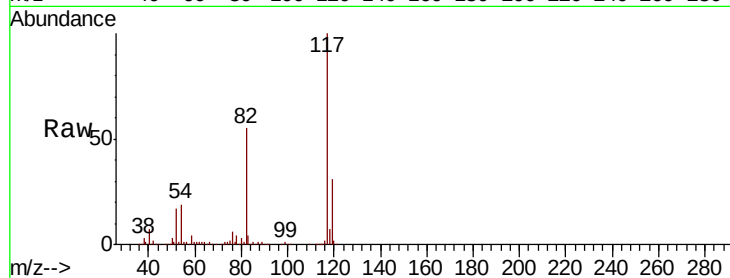




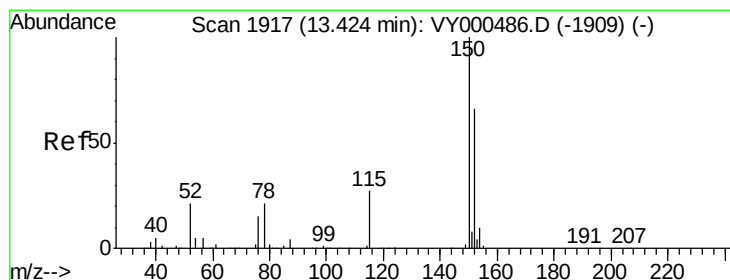
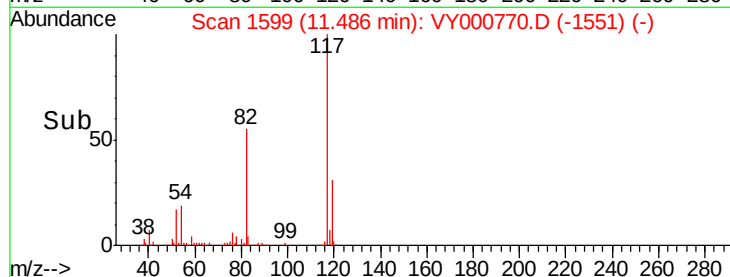
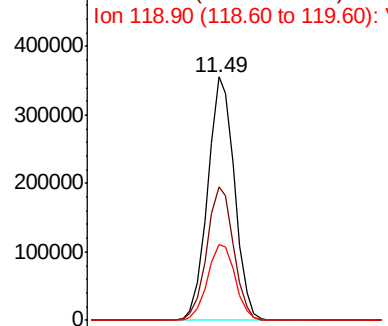
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000770.D
Acq: 21 Nov 2019 16:04

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	40.8	61.2
119	31.4	26.2	39.2

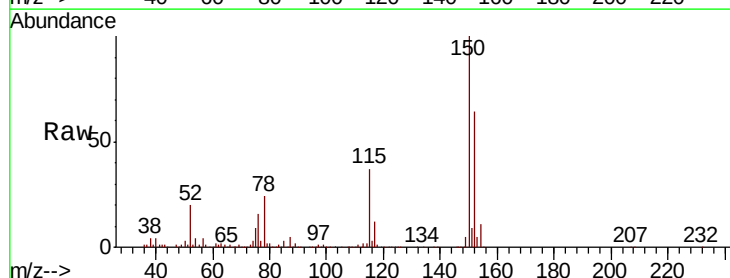


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

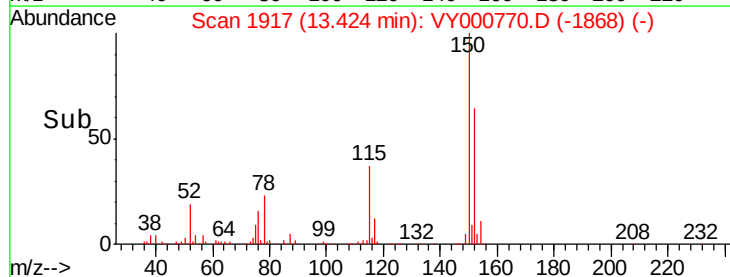
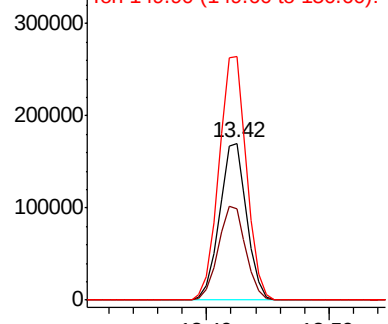


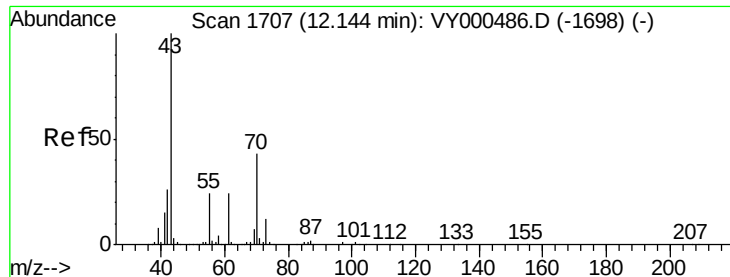
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY000770.D
Acq: 21 Nov 2019 16:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.5	29.1	87.4
150	158.3	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





#74

N-amvl acetate

Concen: 1.574 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.02 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 8720

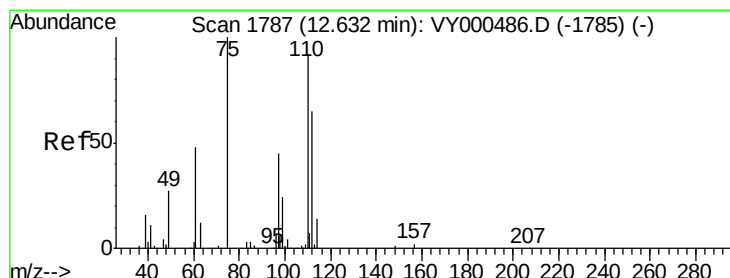
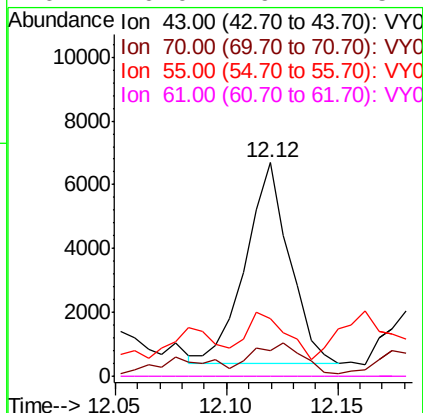
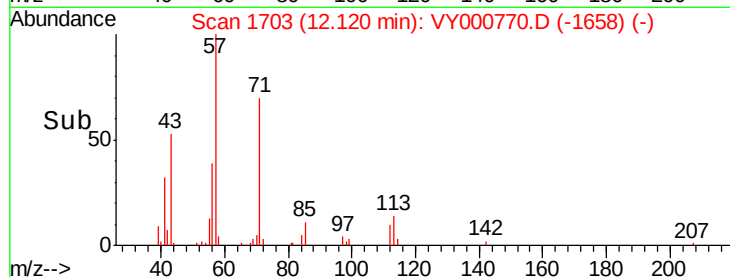
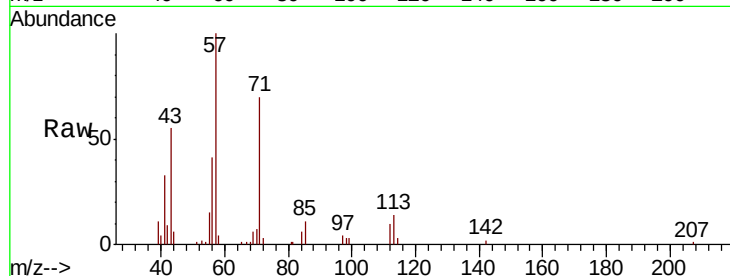
Ion Ratio Lower Upper

43 100

70 16.5 33.1 49.7#

55 20.2 18.0 27.0

61 0.0 19.1 28.7#



#76

1,2,3-Trichloropropane

Concen: 44.852 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000770.D

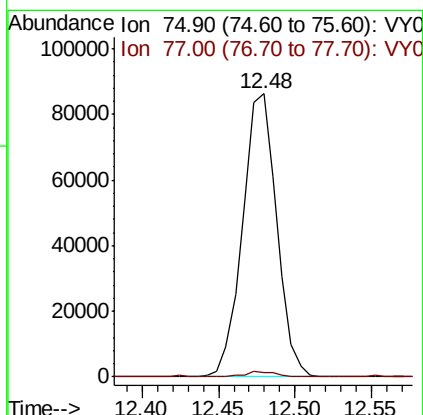
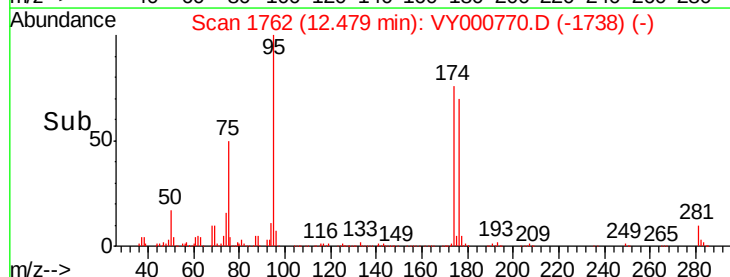
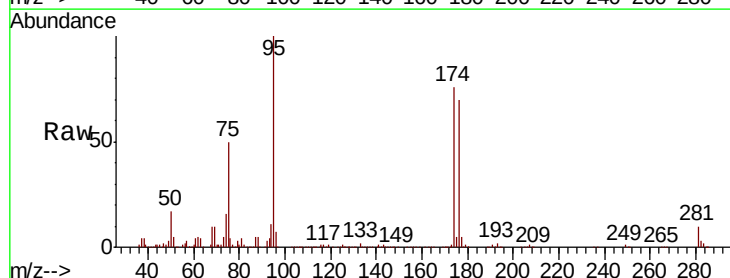
Acq: 21 Nov 2019 16:04

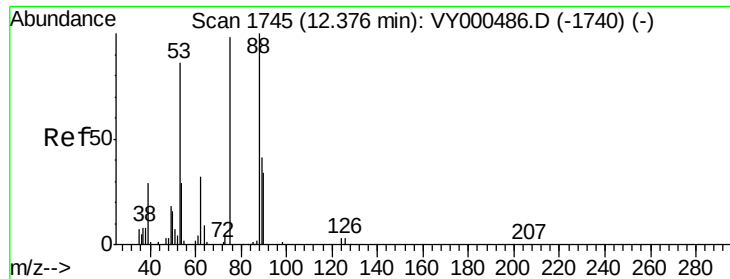
Tgt Ion: 75 Resp: 133698

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 100.564 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

Instrument :

MSVOA_Y

ClientSampleId :

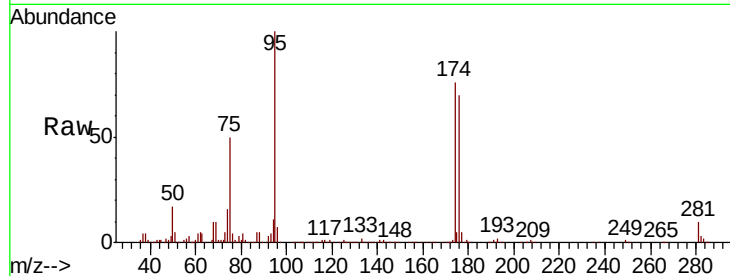
Tot Ion: 75 Resp: 133698

Ion Ratio Lower Upper

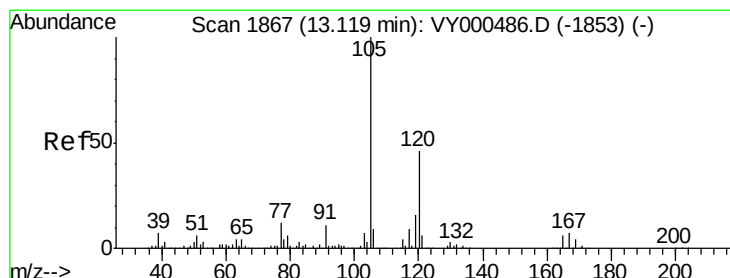
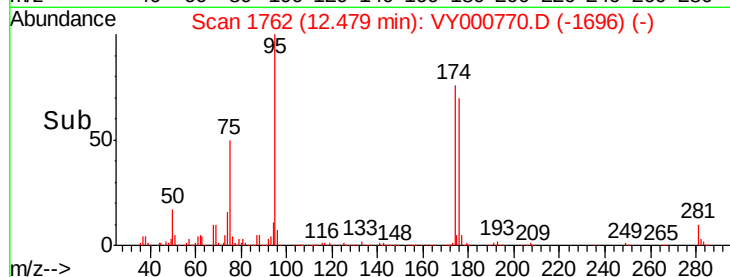
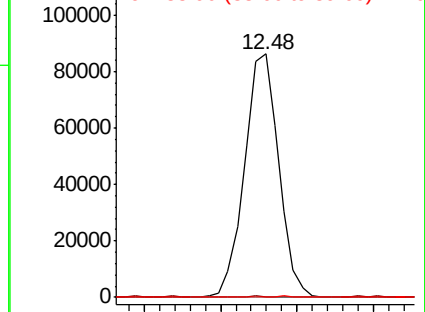
75 100

53 0.3 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



#84

1,2,4-Trimethylbenzene

Concen: 2.741 ug/l

RT: 13.11 min Scan# 1866

Delta R.T. -0.01 min

Lab File: VY000770.D

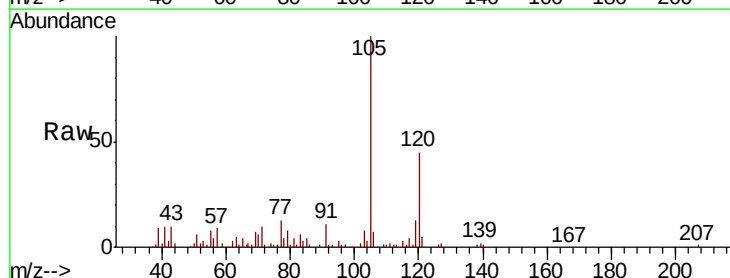
Acq: 21 Nov 2019 16:04

Tgt Ion:105 Resp: 43973

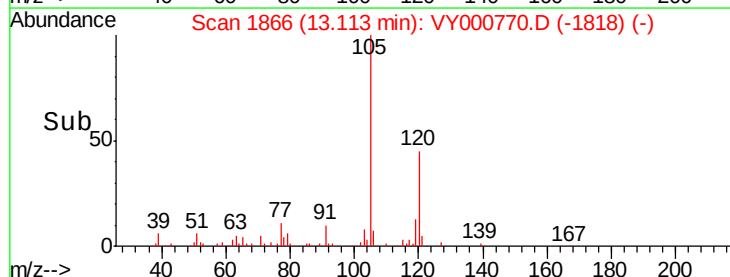
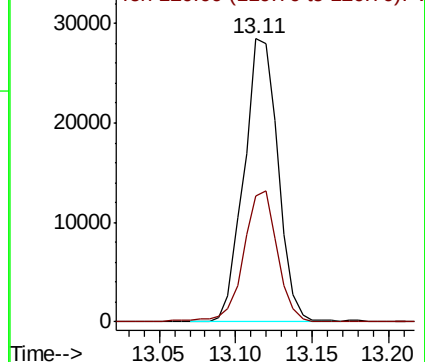
Ion Ratio Lower Upper

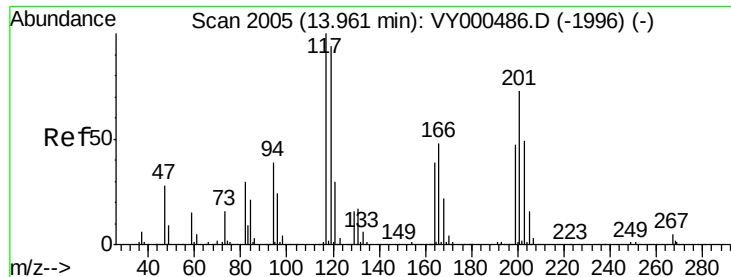
105 100

120 45.8 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.433 ug/l

RT: 13.97 min Scan# 2006

Delta R.T. 0.01 min

Lab File: VY000770.D

Acq: 21 Nov 2019 16:04

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion:117 Resp: 4628

Ion Ratio Lower Upper

117 100

201 1.1 35.8 107.3#

