

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY032020\
 Data File : VY002038.D
 Acq On : 20 Mar 2020 15:34
 Operator : SY/MD
 Sample : L1994-05
 Misc : 7.88G/5ML/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-3-(1-2)

Quant Time: Mar 20 16:14:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	138370	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	266777	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	241838	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.43	152	94106	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	87581	59.29	ug/l	-0.02
Spiked Amount			Recovery	=	118.58%	
35) Dibromofluoromethane	7.73	113	79032	54.25	ug/l	-0.02
Spiked Amount			Recovery	=	108.50%	
50) Toluene-d8	10.18	98	322347	52.48	ug/l	-0.01
Spiked Amount			Recovery	=	104.96%	
62) 4-Bromofluorobenzene	12.49	95	106025	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	

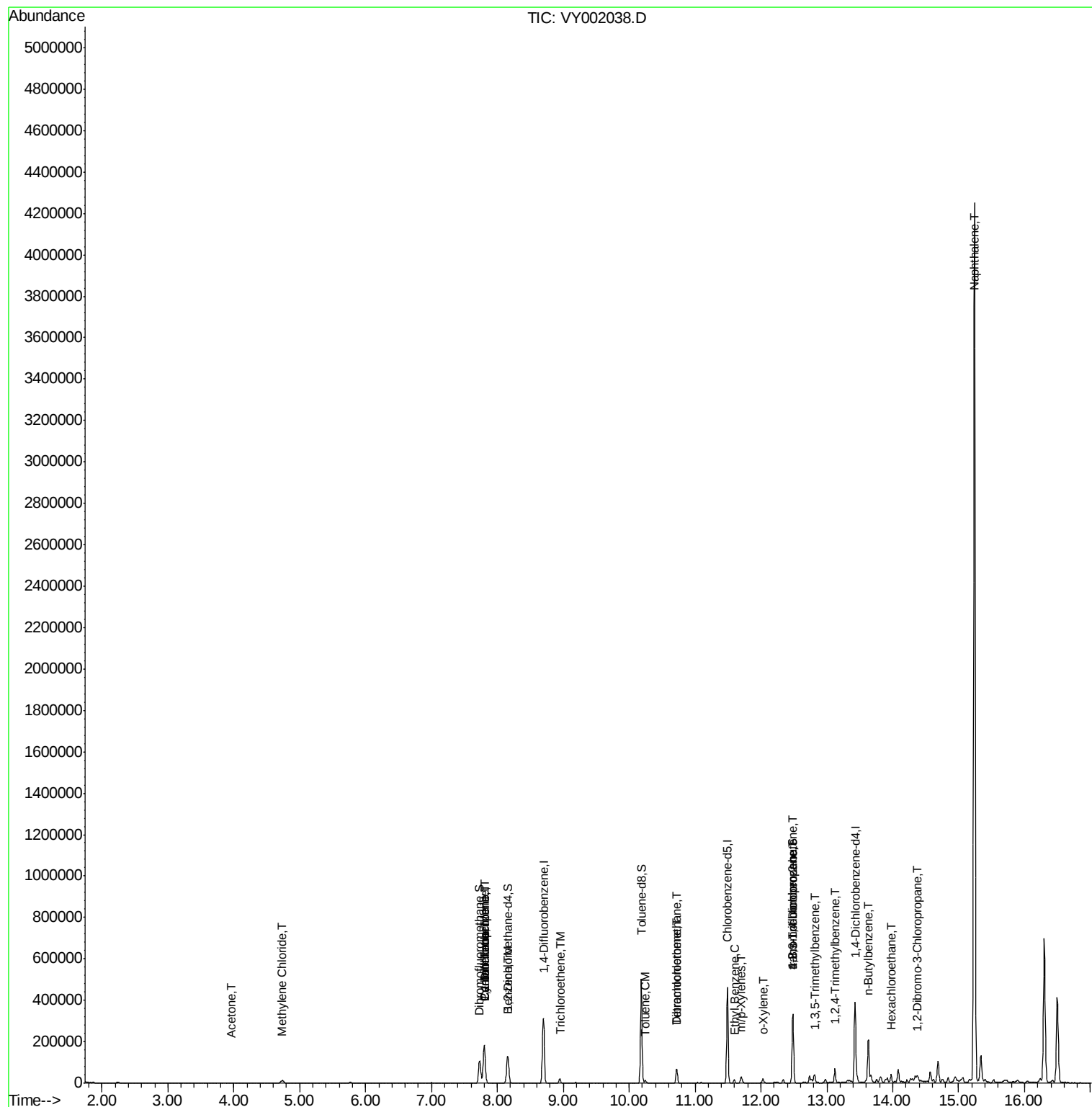
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	112	Below Cal	#	74
16) Acetone	3.96	43	3541	8.23	ug/l	# 82
20) Methylene Chloride	4.73	84	9521	5.16	ug/l	95
31) Cyclohexane	7.80	56	3687	1.14	ug/l	# 1
36) 1,1-Dichloropropene	7.80	75	11733	4.57	ug/l	# 48
38) Carbon Tetrachloride	7.80	117	13804	6.29	ug/l	# 18
40) Benzene	8.17	78	28860	3.79	ug/l	100
44) Trichloroethene	8.95	130	7155	3.86	ug/l	87
52) Toluene	10.25	92	4975	1.08	ug/l	95
60) Dibromochloromethane	10.72	129	14148	9.31	ug/l	# 10
64) Tetrachloroethene	10.72	164	14600	9.63	ug/l	94
67) Ethyl Benzene	11.60	91	11119	1.24	ug/l	91
68) m/p-Xylenes	11.70	106	8632	2.60	ug/l	100
69) o-Xylene	12.03	106	5223	1.67	ug/l	100
76) 1,2,3-Trichloropropane	12.49	75	54475	48.79	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.81	105	14383	2.43	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.49	75	54475	98.54	ug/l	# 17
84) 1,2,4-Trimethylbenzene	13.12	105	35453	6.04	ug/l	99
89) n-Butylbenzene	13.63	91	18824	2.90	ug/l	# 47
90) Hexachloroethane	13.97	117	1666	1.41	ug/l	# 18
92) 1,2-Dibromo-3-Chloropropan	14.37	75	999	4.13	ug/l	# 1
95) Naphthalene	15.24	128	3329613	798.84	ug/l	99

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

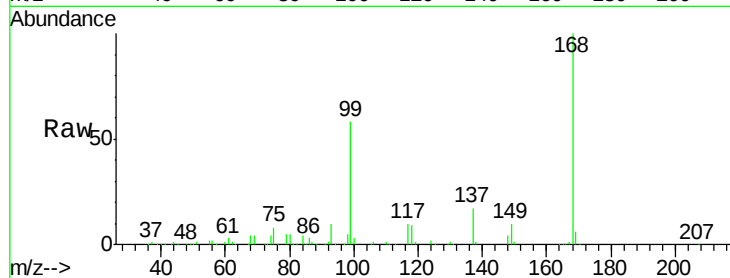
TP-3-(1-2)

Tgt Ion:168 Resp: 138370

Ion Ratio Lower Upper

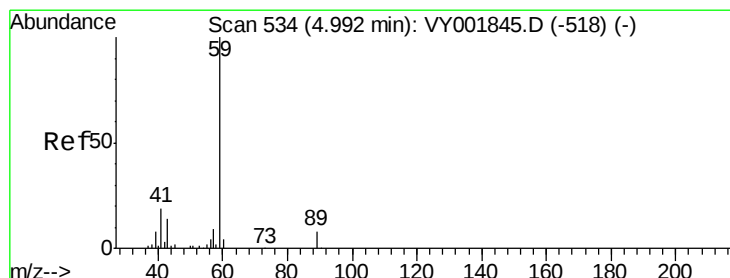
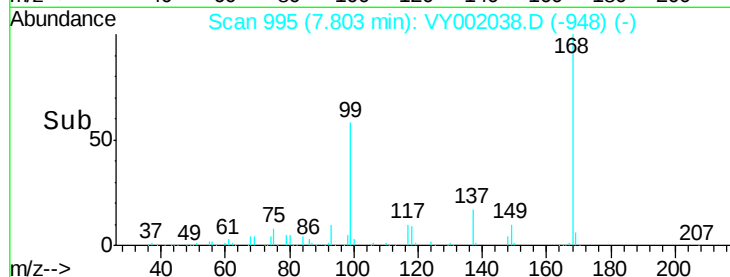
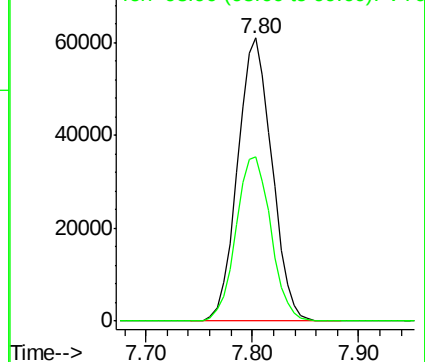
168 100

99 58.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY002038.D

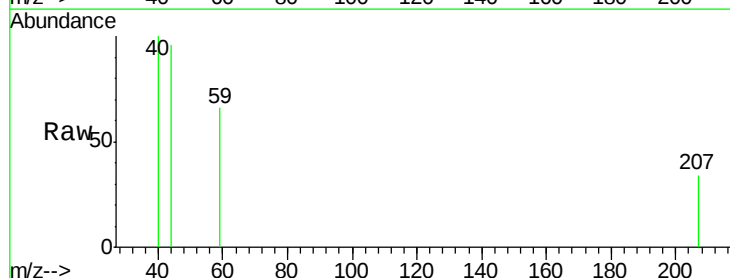
Acq: 20 Mar 2020 15:34

Tgt Ion: 59 Resp: 112

Ion Ratio Lower Upper

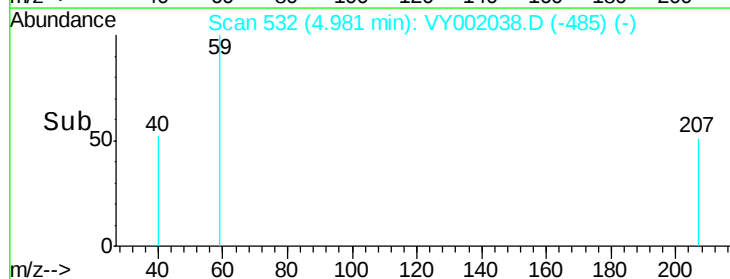
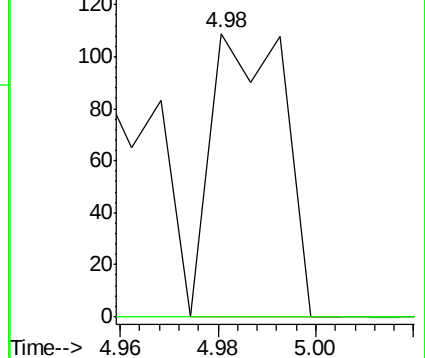
59 100

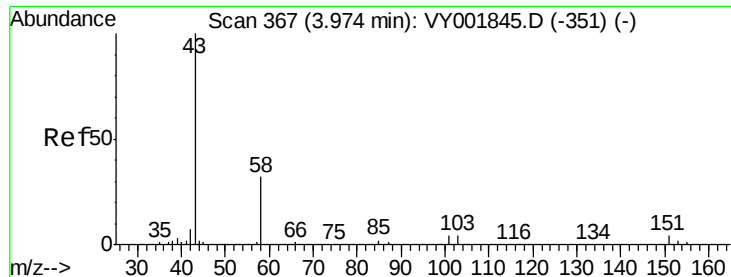
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001845.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VY001845.D (-518) (-)





#16

Acetone

Concen: 8.23 ug/l

RT: 3.96 min Scan# 365

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampled :

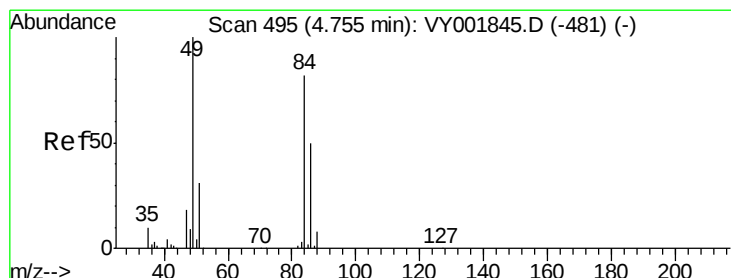
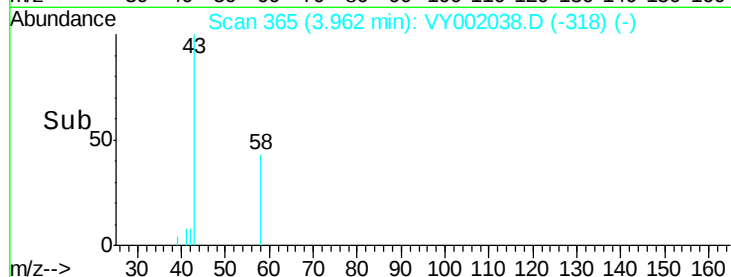
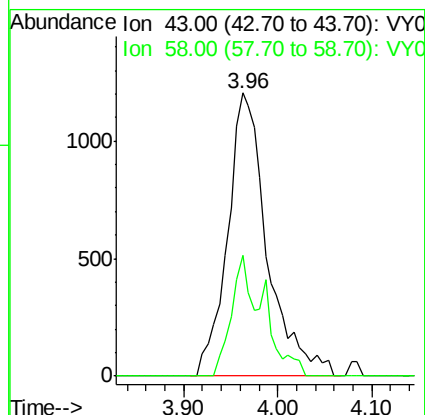
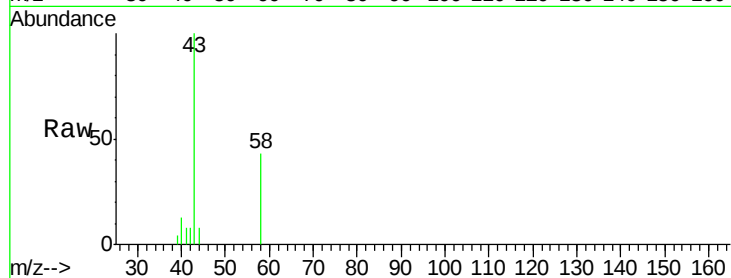
TP-3-(1-2)

Tgt Ion: 43 Resp: 3541

Ion Ratio Lower Upper

43 100

58 42.6 25.9 38.9#



#20

Methylene Chloride

Concen: 5.16 ug/l

RT: 4.73 min Scan# 491

Delta R.T. -0.02 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Tgt Ion: 84 Resp: 9521

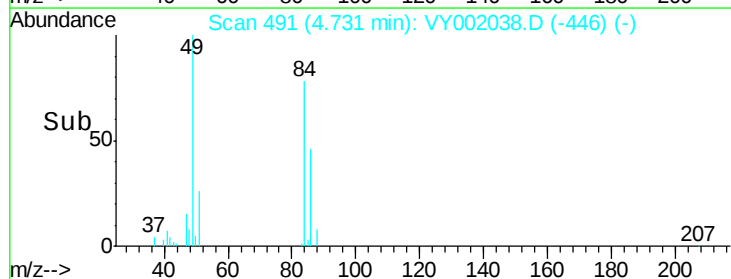
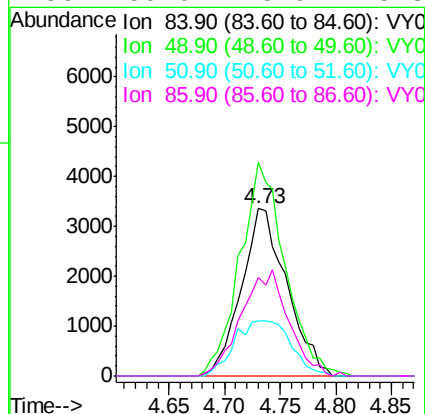
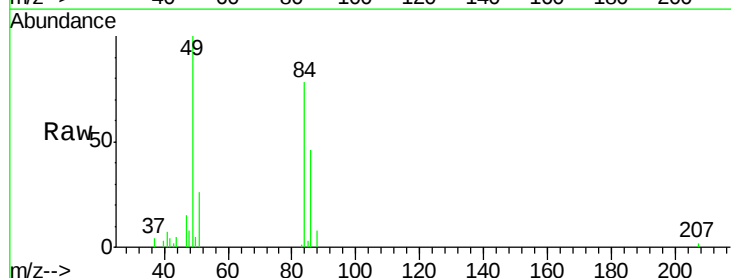
Ion Ratio Lower Upper

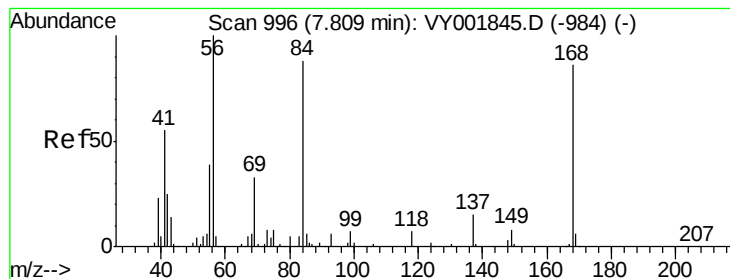
84 100

49 127.7 98.2 147.2

51 32.9 30.2 45.2

86 59.0 48.9 73.3





#31

Cyclohexane

Concen: 1.14 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

TP-3-(1-2)

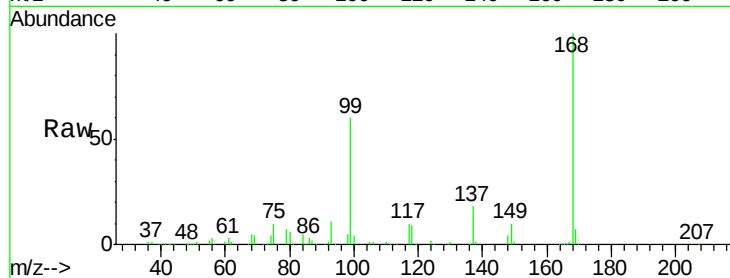
Tgt Ion: 56 Resp: 3687

Ion Ratio Lower Upper

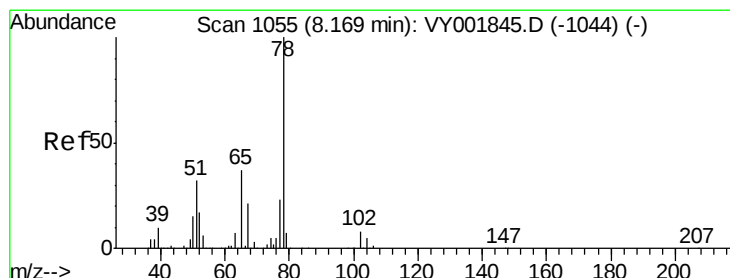
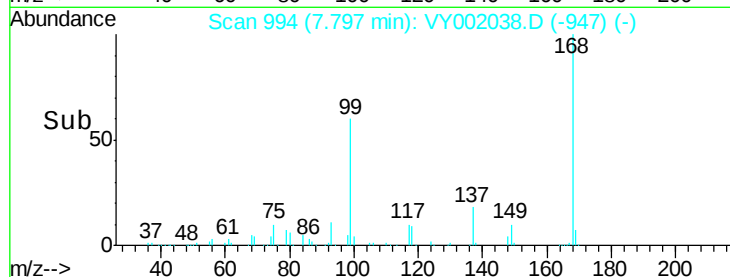
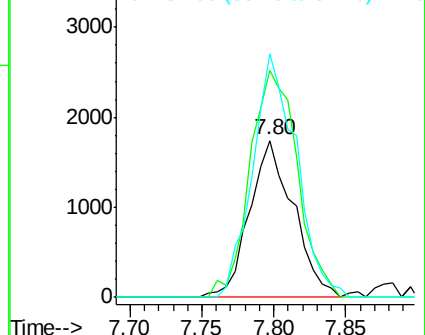
56 100

69 144.7 26.7 40.1#

84 155.2 70.4 105.6#



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: 59.29 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.02 min

Lab File: VY002038.D

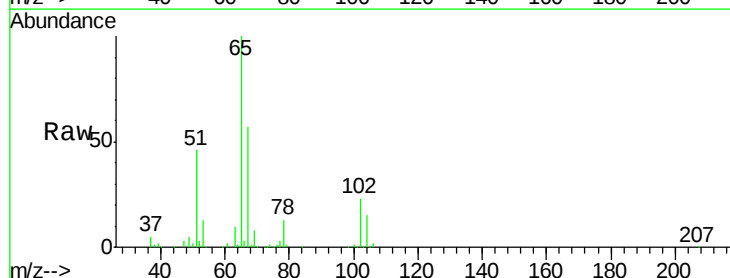
Acq: 20 Mar 2020 15:34

Tgt Ion: 65 Resp: 87581

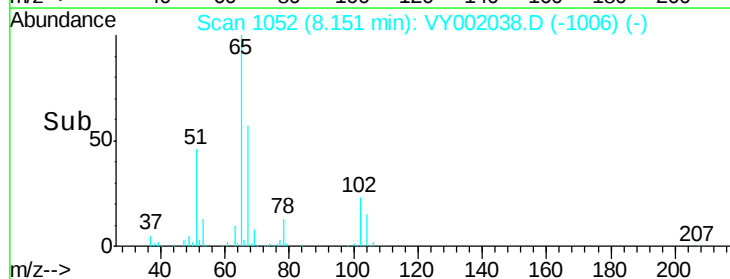
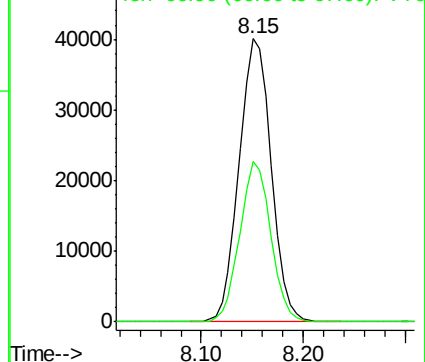
Ion Ratio Lower Upper

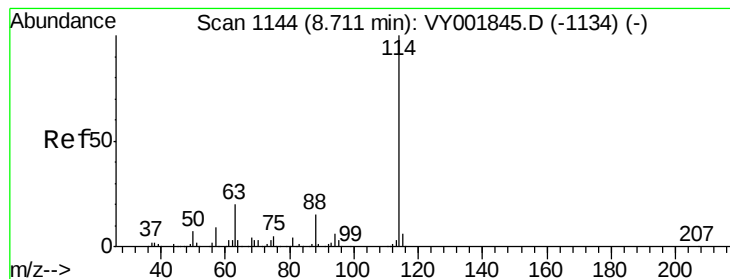
65 100

67 54.6 0.0 110.8



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

TP-3-(1-2)

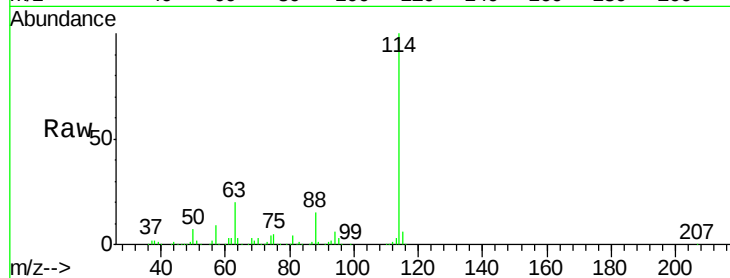
Tgt Ion:114 Resp: 266777

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.4

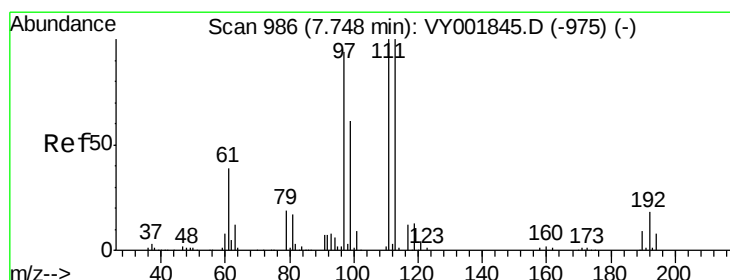
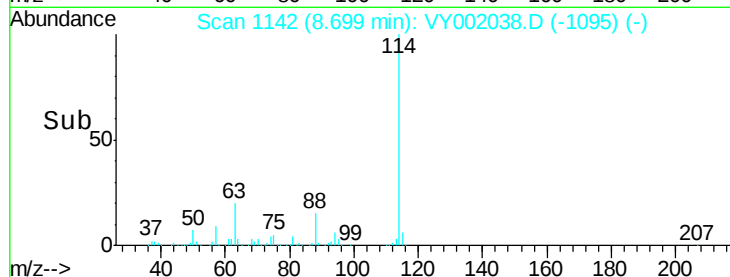
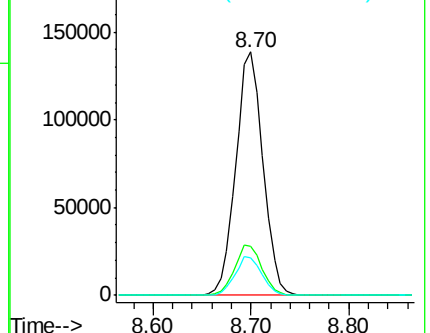
88 15.2 0.0 30.4



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: 54.25 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.02 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

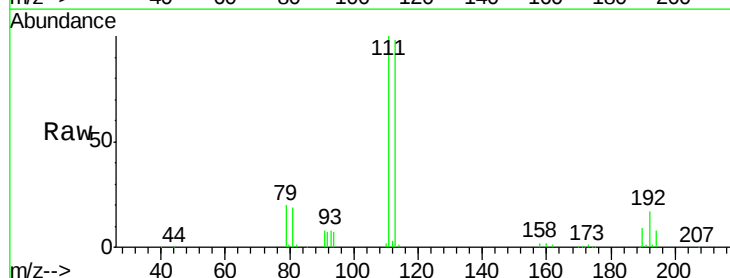
Tgt Ion:113 Resp: 79032

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

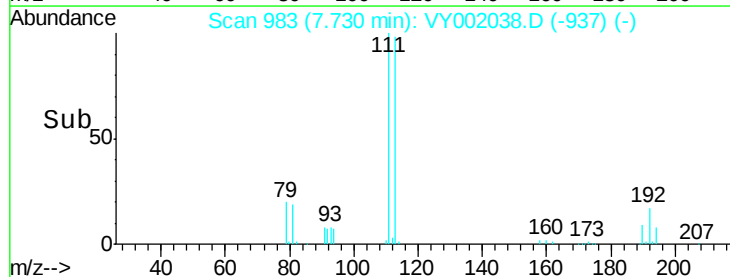
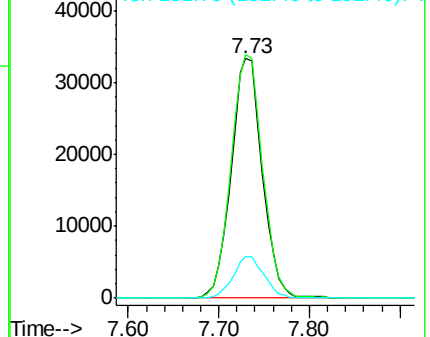
192 17.5 14.2 21.2

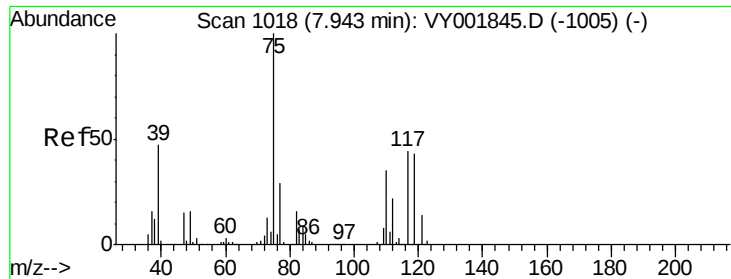


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

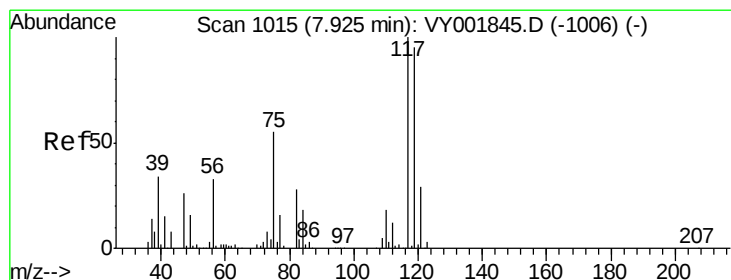
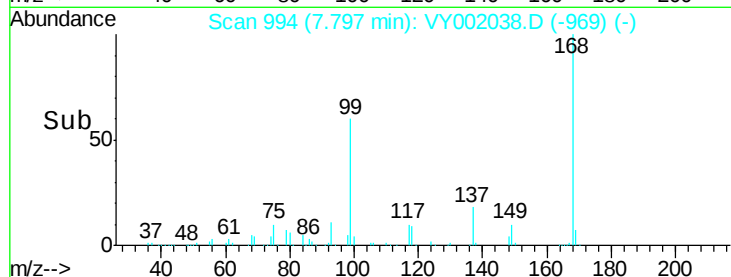
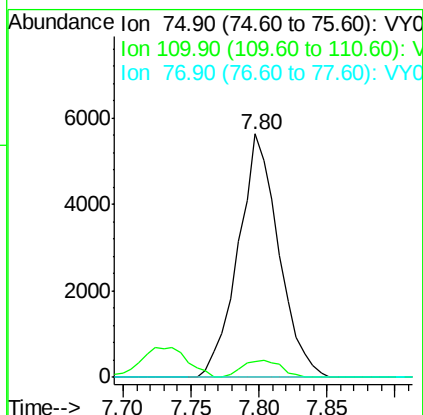
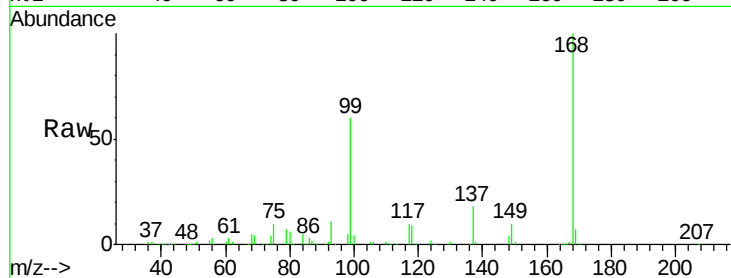




#36
 1,1-Dichloropropene
 Concen: 4.57 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.15 min
 Lab File: VY002038.D
 Acq: 20 Mar 2020 15:34

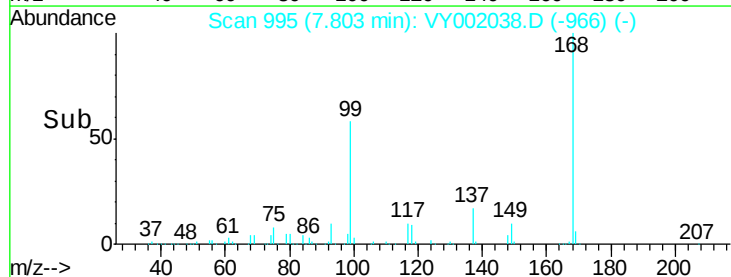
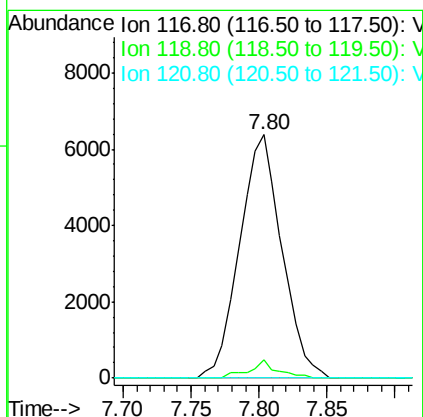
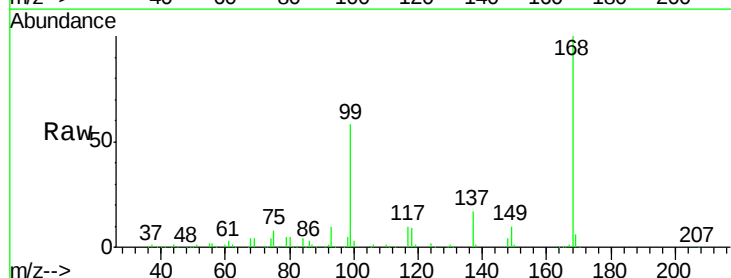
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-3-(1-2)

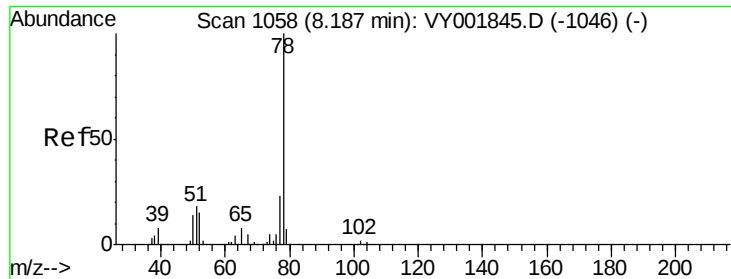
Tgt Ion: 75 Resp: 11733
 Ion Ratio Lower Upper
 75 100
 110 6.7 17.4 52.2#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.29 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY002038.D
 Acq: 20 Mar 2020 15:34

Tgt Ion: 117 Resp: 13804
 Ion Ratio Lower Upper
 117 100
 119 7.7 76.3 114.5#
 121 0.0 23.5 35.3#





#40

Benzene

Concen: 3.79 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. -0.02 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampled :

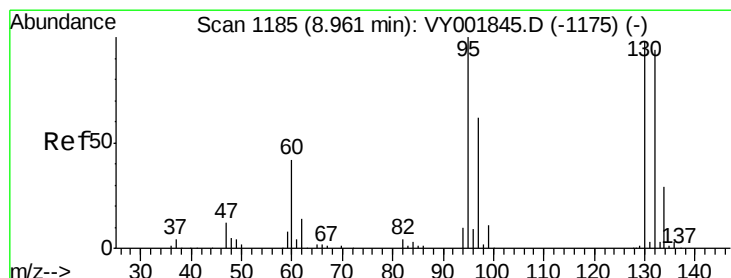
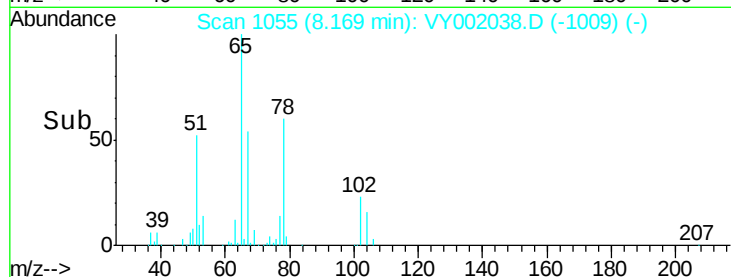
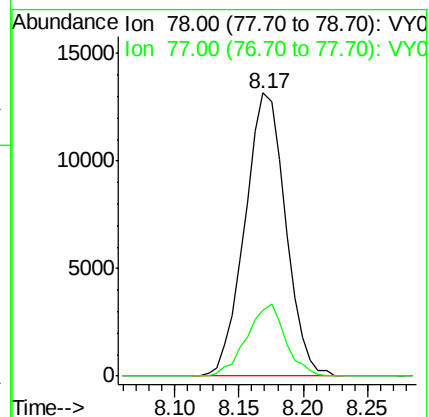
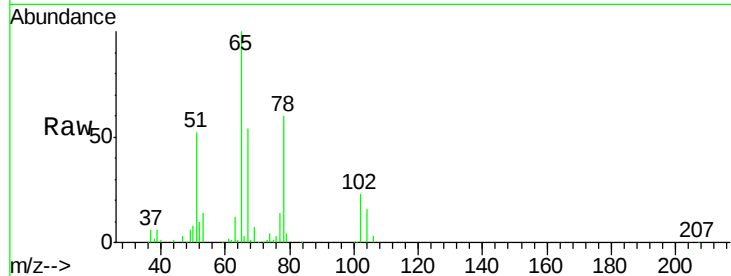
TP-3-(1-2)

Tgt Ion: 78 Resp: 28860

Ion Ratio Lower Upper

78 100

77 23.4 18.7 28.1



#44

Trichloroethene

Concen: 3.86 ug/l

RT: 8.95 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VY002038.D

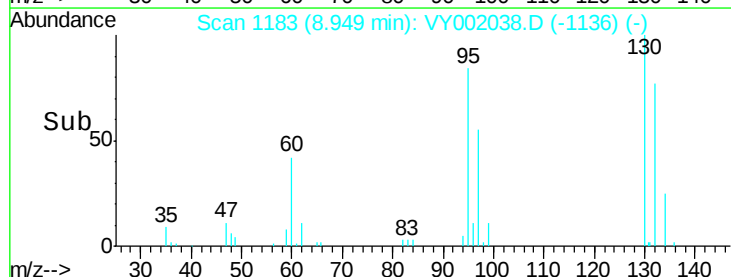
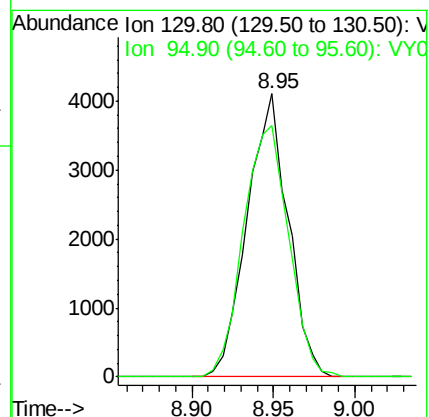
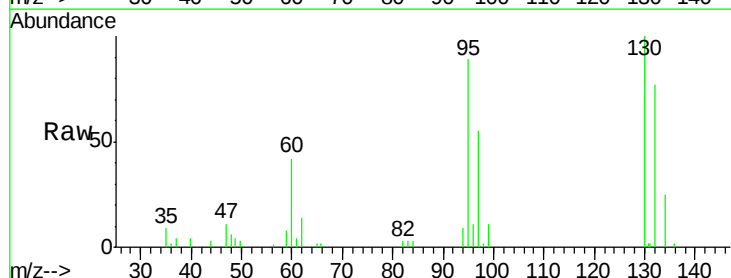
Acq: 20 Mar 2020 15:34

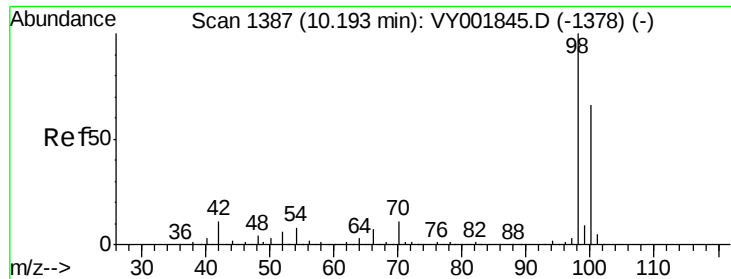
Tgt Ion: 130 Resp: 7155

Ion Ratio Lower Upper

130 100

95 88.8 0.0 204.6





#50

Toluene-d8

Concen: 52.48 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

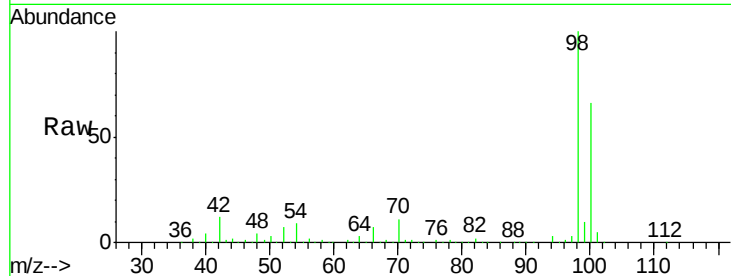
TP-3-(1-2)

Tgt Ion: 98 Resp: 322347

Ion Ratio Lower Upper

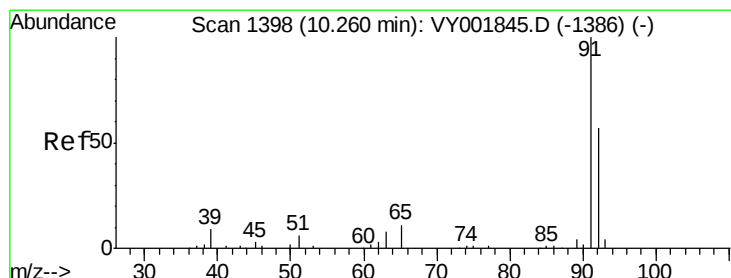
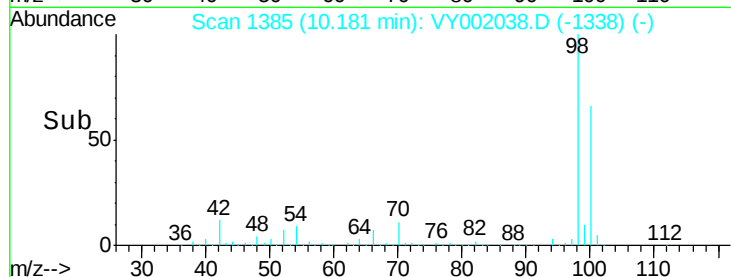
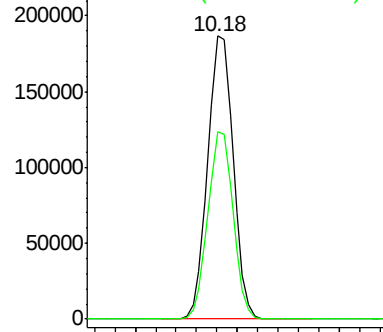
98 100

100 65.5 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#52

Toluene

Concen: 1.08 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.01 min

Lab File: VY002038.D

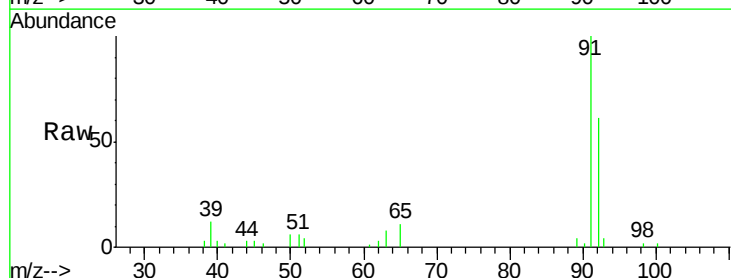
Acq: 20 Mar 2020 15:34

Tgt Ion: 92 Resp: 4975

Ion Ratio Lower Upper

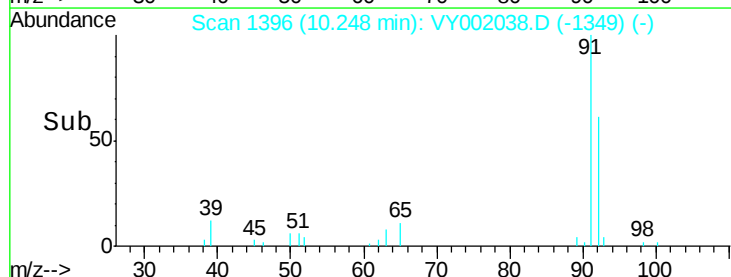
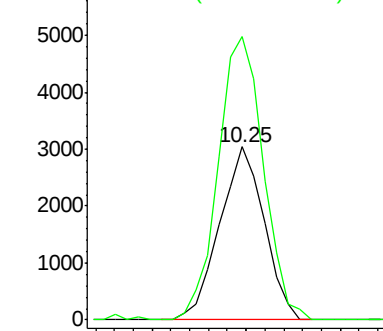
92 100

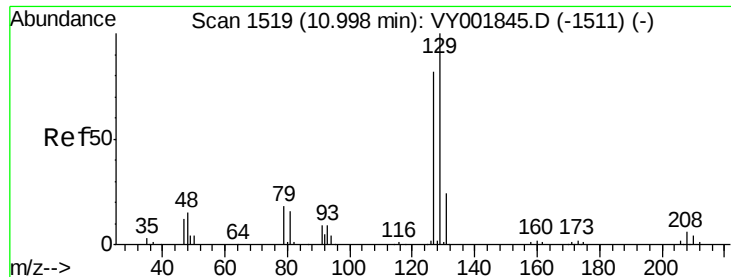
91 165.8 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0

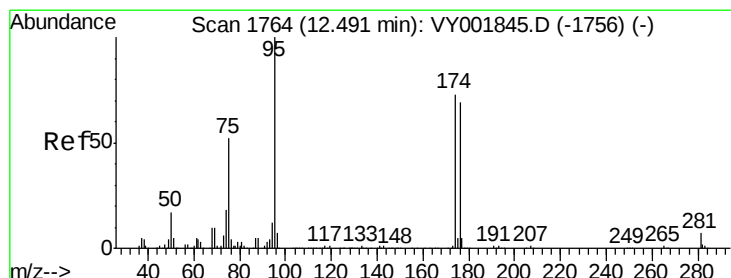
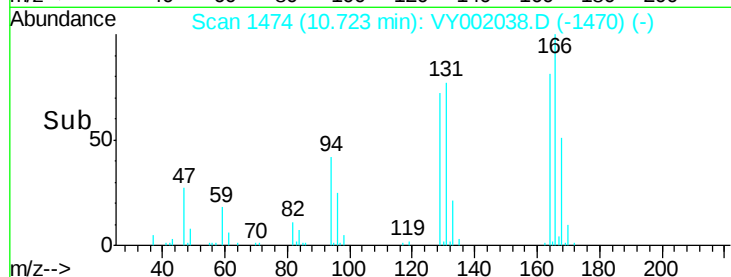
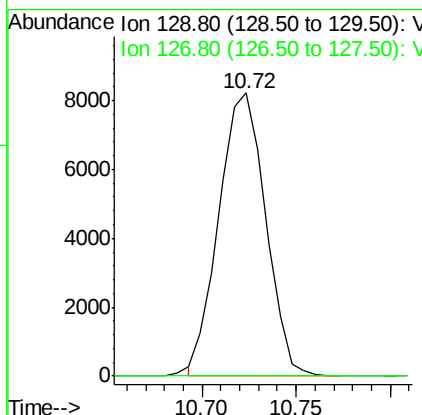
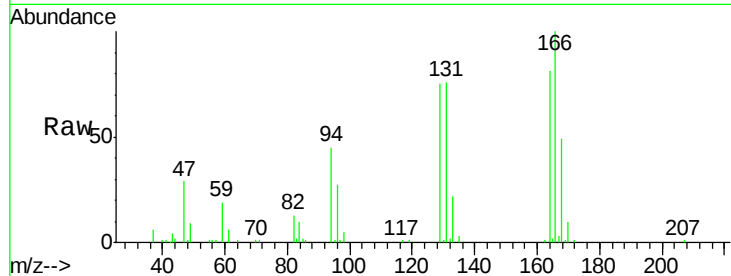




#60
 Dibromochloromethane
 Concen: 9.31 ug/l
 RT: 10.72 min Scan# 1474
 Delta R.T. -0.27 min
 Lab File: VY002038.D
 Acq: 20 Mar 2020 15:34

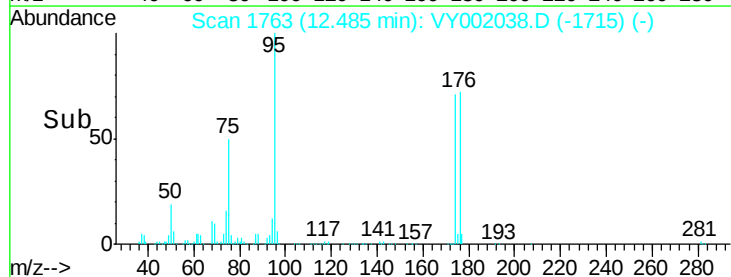
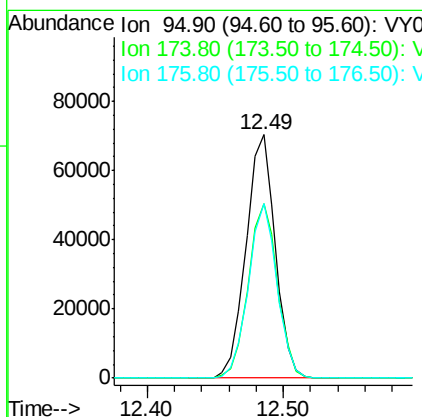
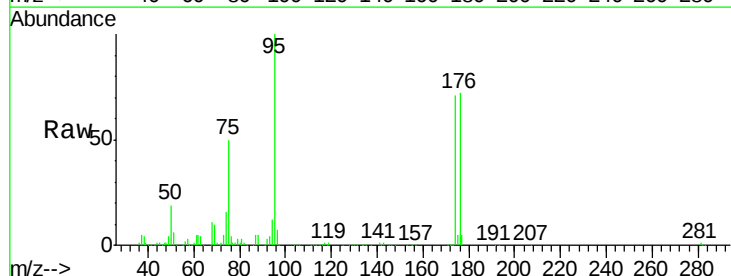
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-3-(1-2)

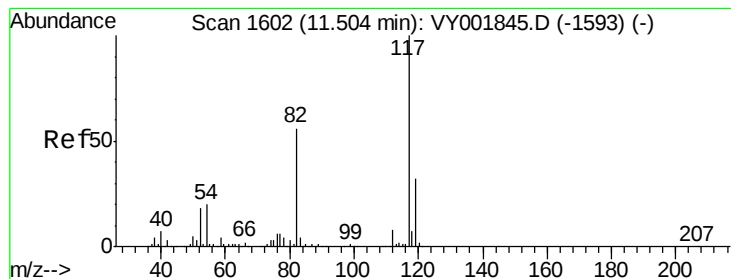
Tgt Ion: 129 Resp: 14148
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.0 117.0#



#62
 4-Bromofluorobenzene
 Concen: 49.64 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: VY002038.D
 Acq: 20 Mar 2020 15:34

Tgt Ion: 95 Resp: 106025
 Ion Ratio Lower Upper
 95 100
 174 71.6 0.0 145.0
 176 70.4 0.0 137.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

TP-3-(1-2)

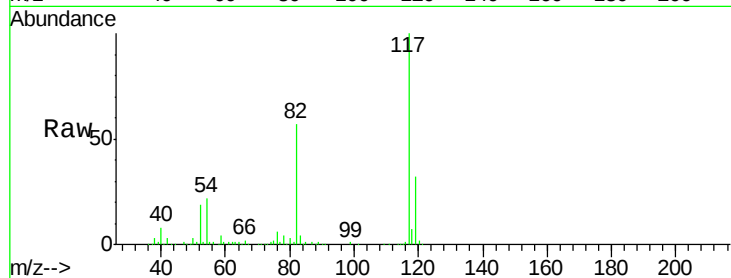
Tgt Ion:117 Resp: 241838

Ion Ratio Lower Upper

117 100

82 57.3 44.5 66.7

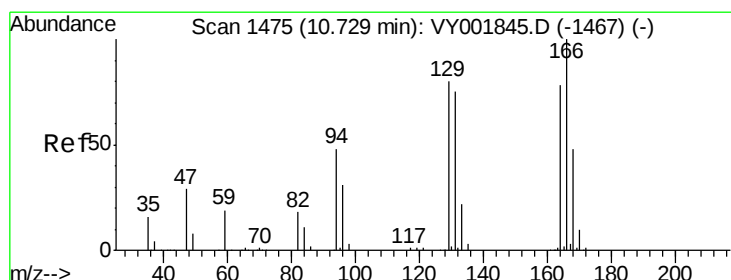
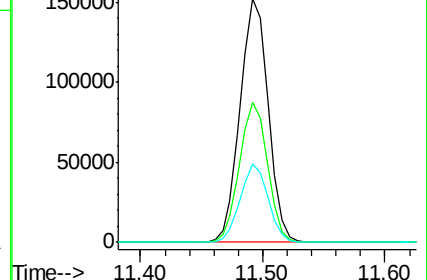
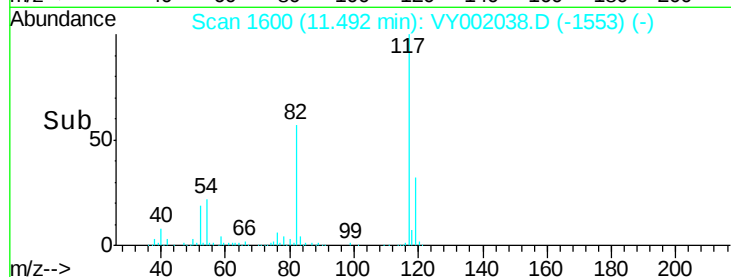
119 32.4 25.7 38.5



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



#64

Tetrachloroethene

Concen: 9.63 ug/l

RT: 10.72 min Scan# 1474

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Tgt Ion:164 Resp: 14600

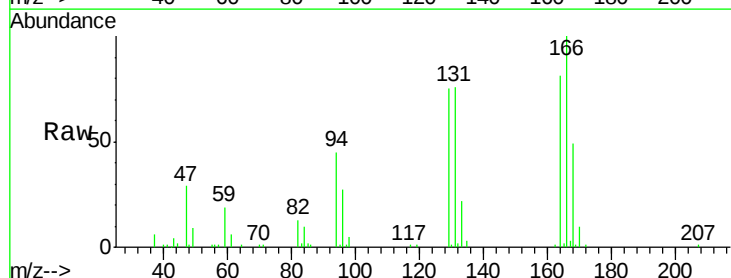
Ion Ratio Lower Upper

164 100

166 123.3 102.6 154.0

129 92.6 82.3 123.5

131 93.6 77.4 116.0

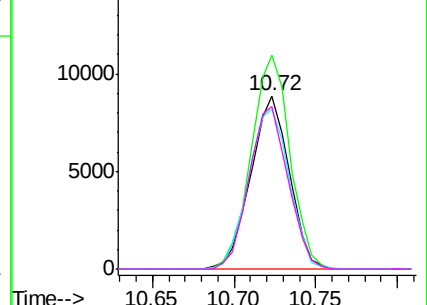
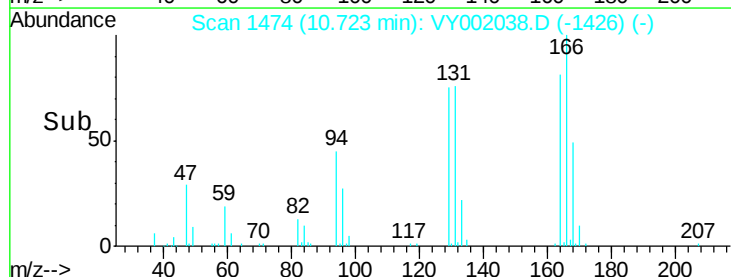


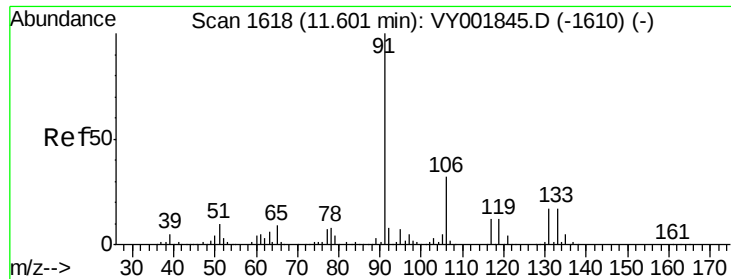
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

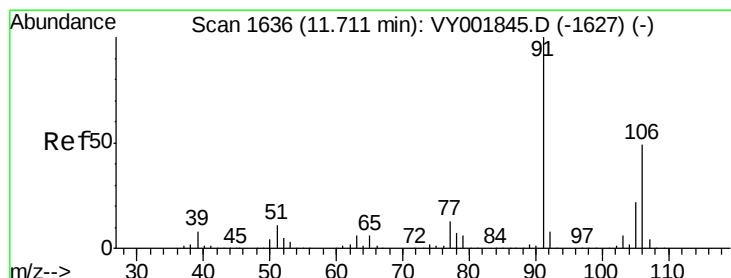
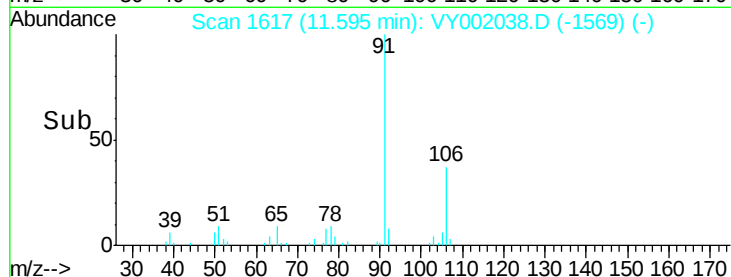
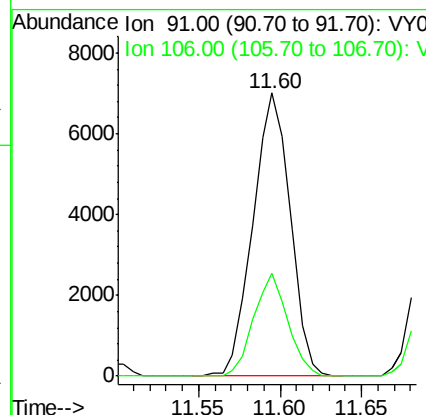
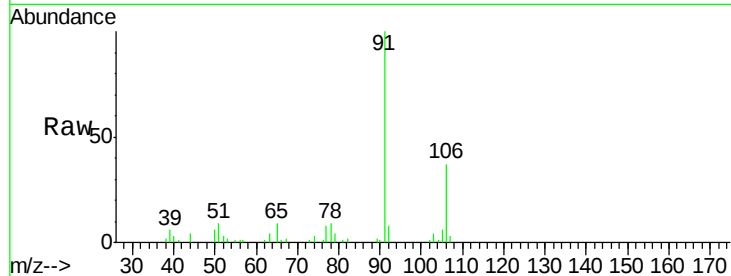




#67
Ethyl Benzene
Concen: 1.24 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY002038.D
Acq: 20 Mar 2020 15:34

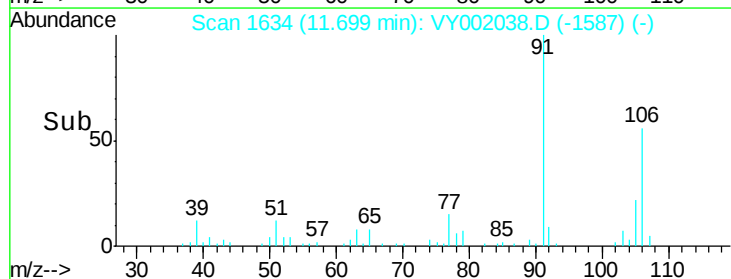
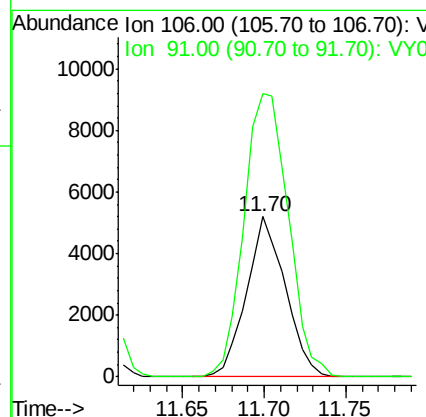
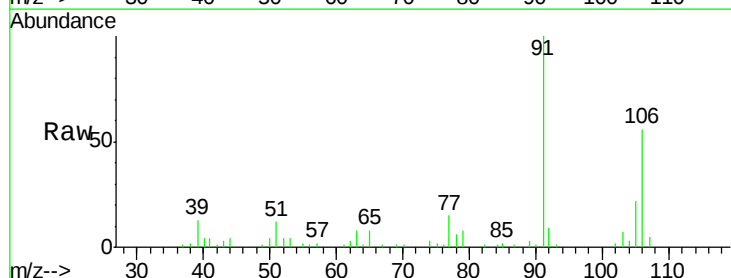
Instrument :
MSVOA_Y
ClientSampleId :
TP-3-(1-2)

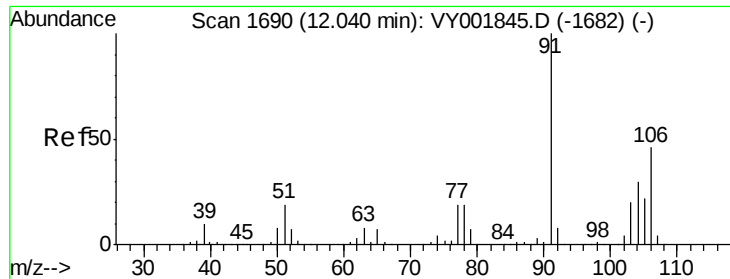
Tgt Ion: 91 Resp: 11119
Ion Ratio Lower Upper
91 100
106 36.6 25.4 38.2



#68
m/p-Xylenes
Concen: 2.60 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VY002038.D
Acq: 20 Mar 2020 15:34

Tgt Ion: 106 Resp: 8632
Ion Ratio Lower Upper
106 100
91 201.8 161.3 241.9

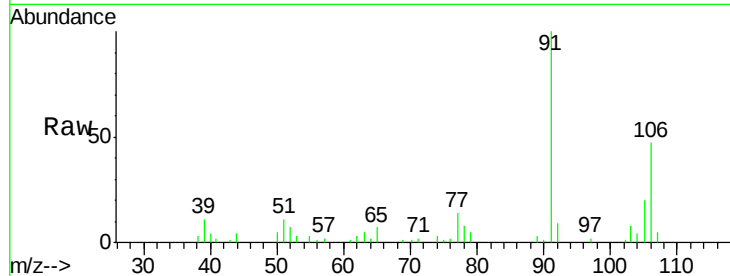




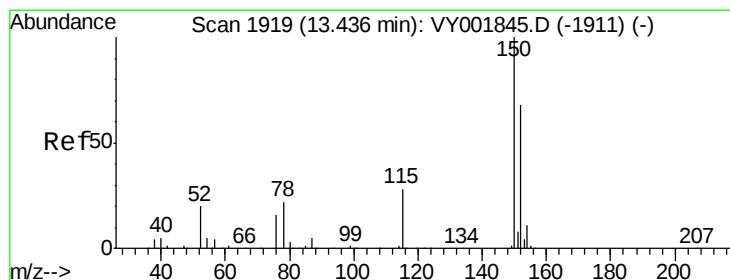
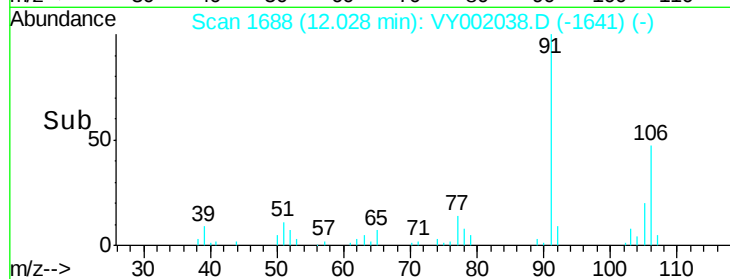
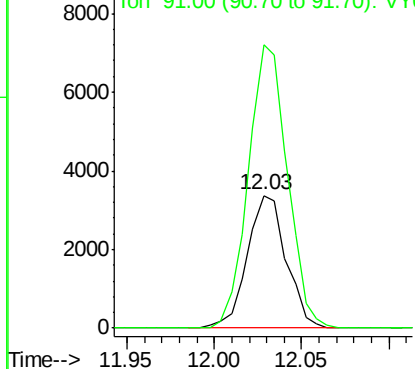
#69
o-Xylene
Concen: 1.67 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY002038.D
Acq: 20 Mar 2020 15:34

Instrument :
MSVOA_Y
ClientSampleId :
TP-3-(1-2)

Tgt Ion:106 Resp: 5223
Ion Ratio Lower Upper
106 100
91 214.2 106.8 320.4

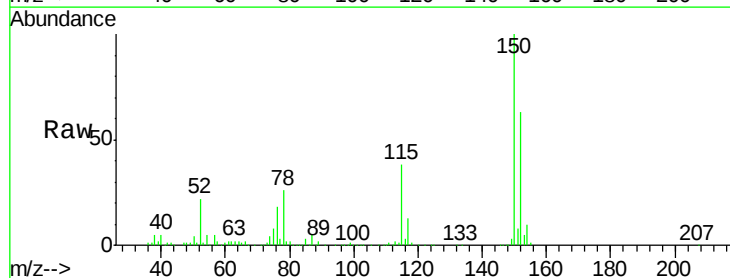


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

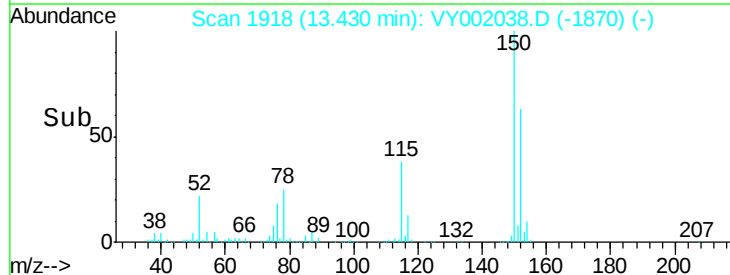
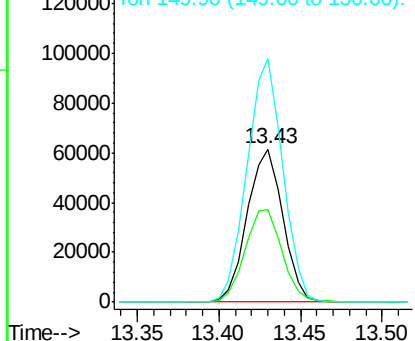


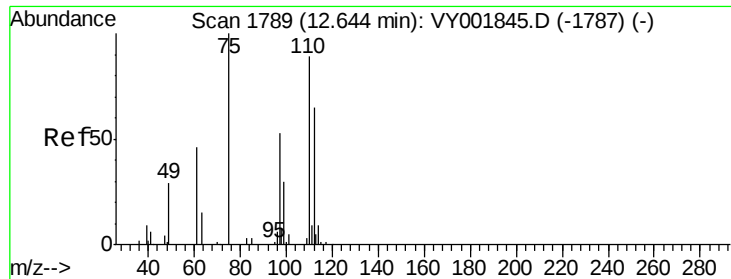
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY002038.D
Acq: 20 Mar 2020 15:34

Tgt Ion:152 Resp: 94106
Ion Ratio Lower Upper
152 100
115 62.8 29.9 89.7
150 158.8 0.0 340.6



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: 48.79 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

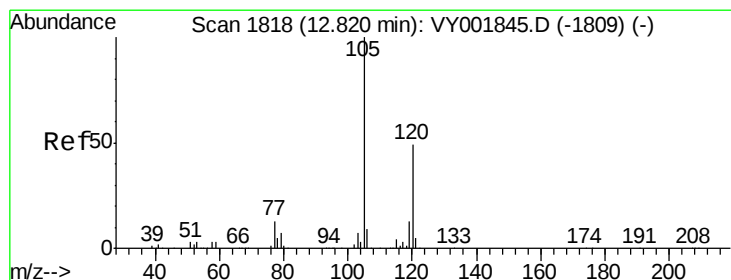
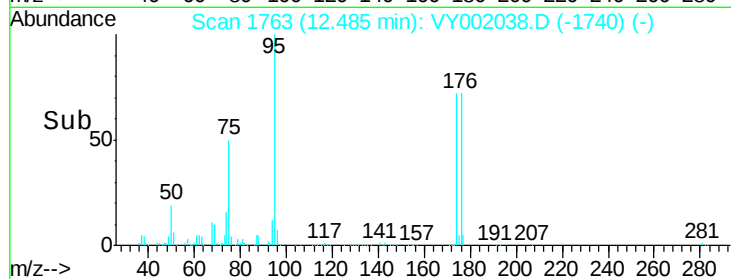
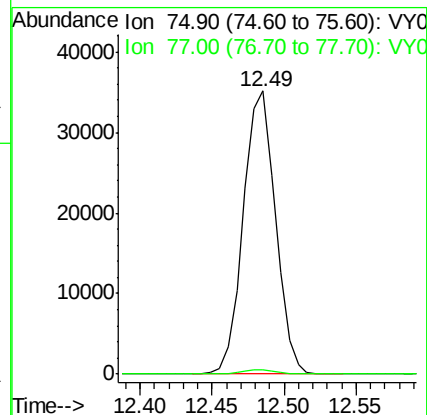
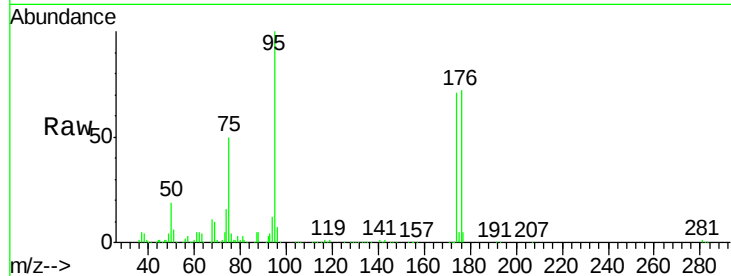
TP-3-(1-2)

Tgt Ion: 75 Resp: 54475

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 2.43 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY002038.D

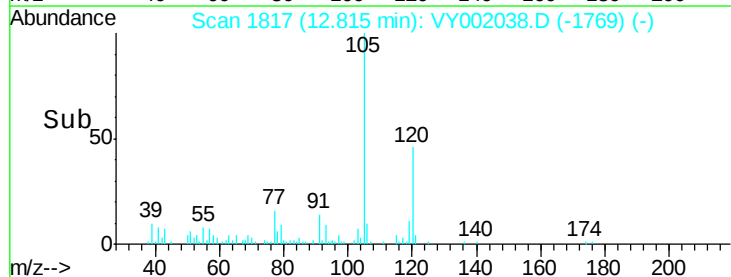
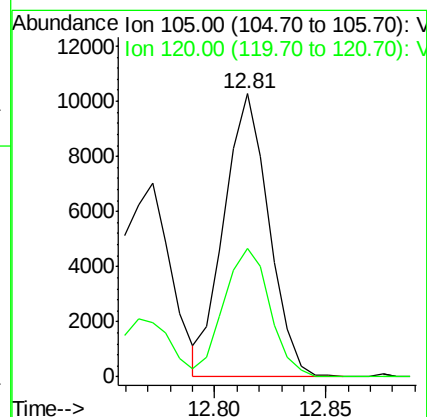
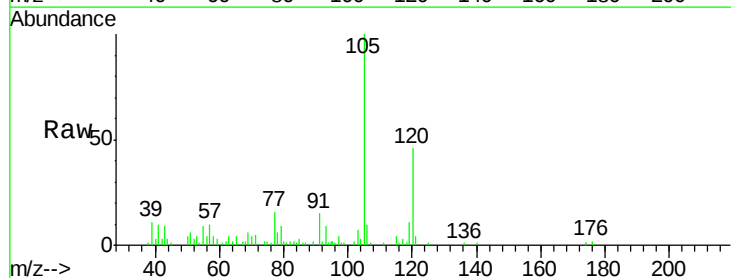
Acq: 20 Mar 2020 15:34

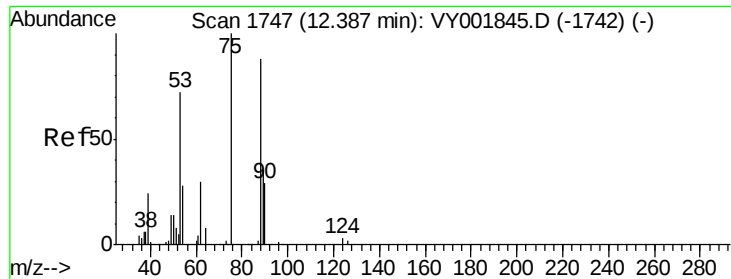
Tgt Ion: 105 Resp: 14383

Ion Ratio Lower Upper

105 100

120 46.8 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 98.54 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

TP-3-(1-2)

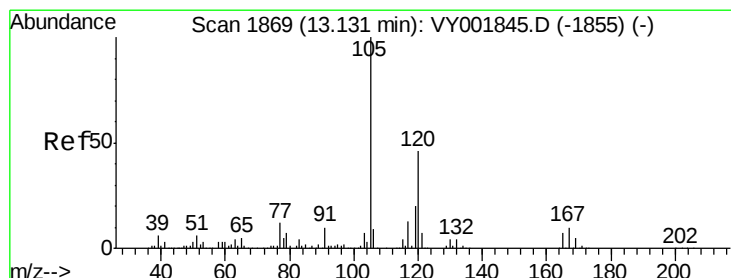
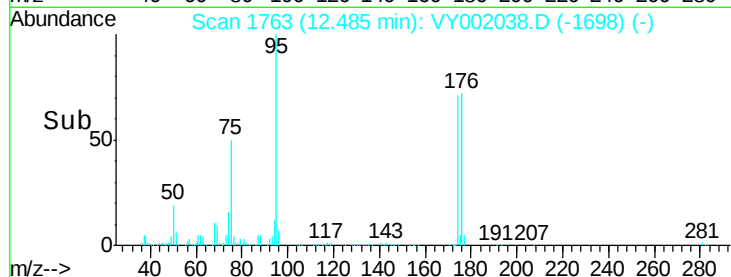
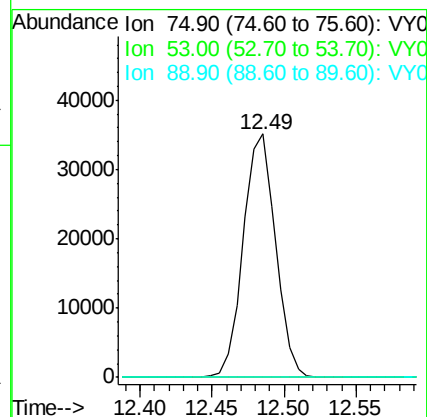
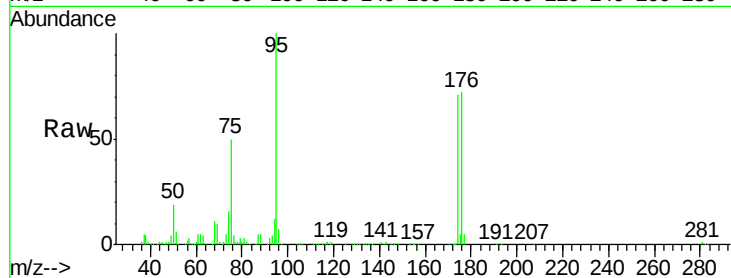
Tgt Ion: 75 Resp: 54475

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.1 36.0 54.0#



#84

1,2,4-Trimethylbenzene

Concen: 6.04 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.01 min

Lab File: VY002038.D

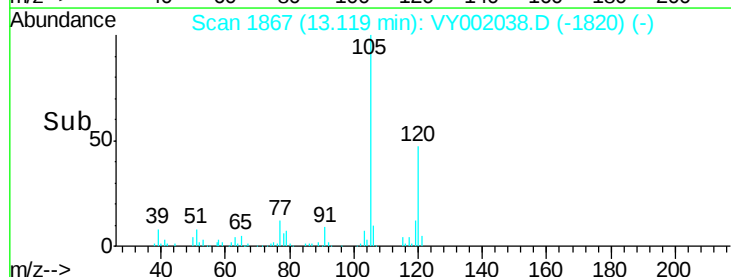
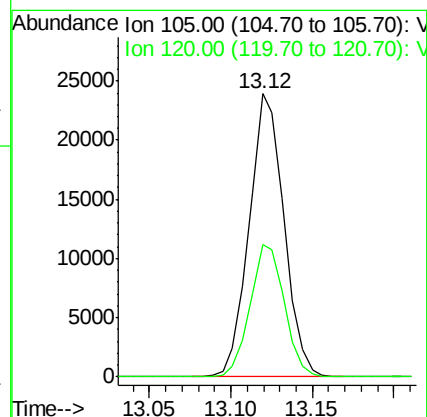
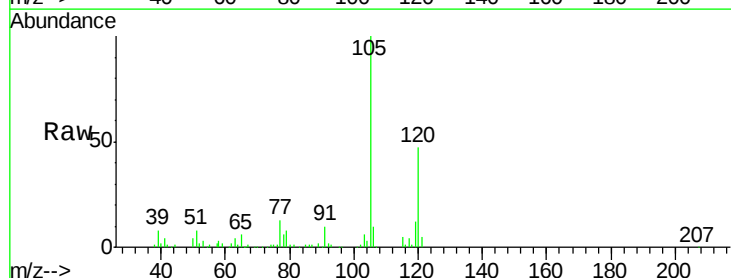
Acq: 20 Mar 2020 15:34

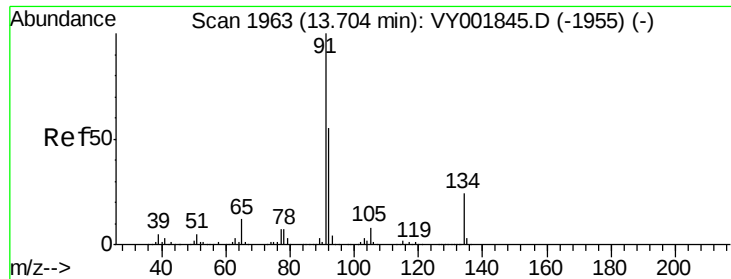
Tgt Ion: 105 Resp: 35453

Ion Ratio Lower Upper

105 100

120 45.8 22.6 67.7

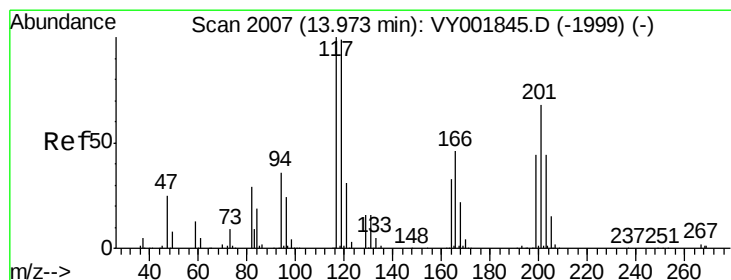
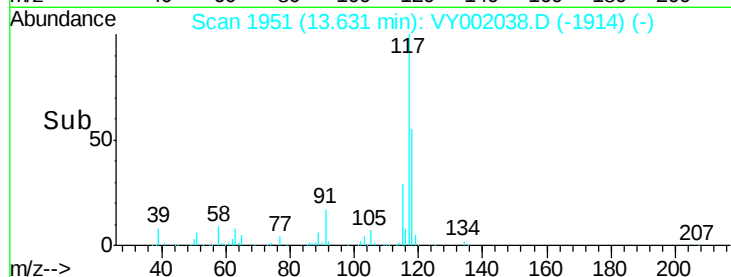
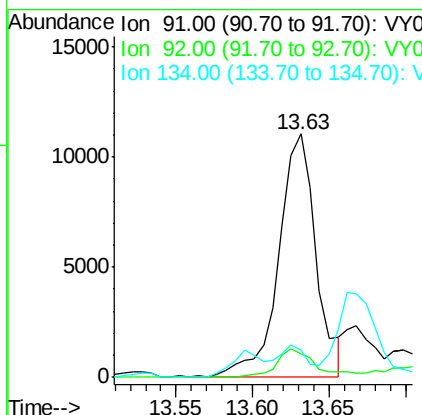
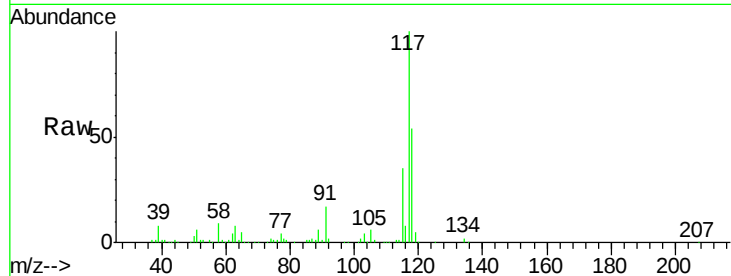




#89
n-Butylbenzene
Concen: 2.90 ug/l
RT: 13.63 min Scan# 1951
Delta R.T. -0.07 min
Lab File: VY002038.D
Acq: 20 Mar 2020 15:34

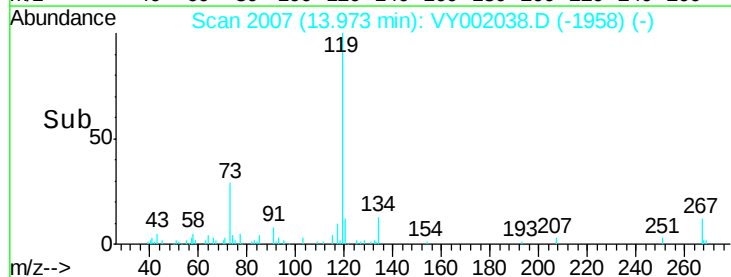
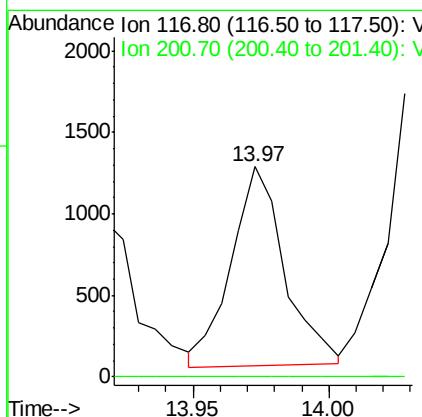
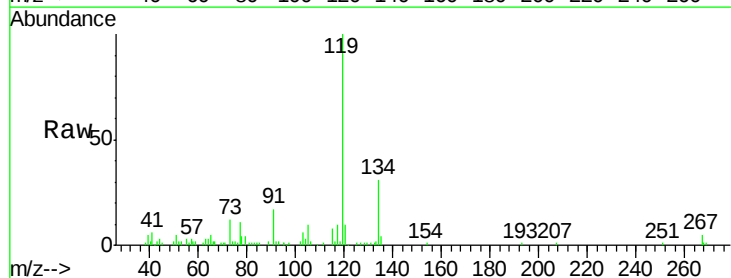
Instrument :
MSVOA_Y
ClientSampleId :
TP-3-(1-2)

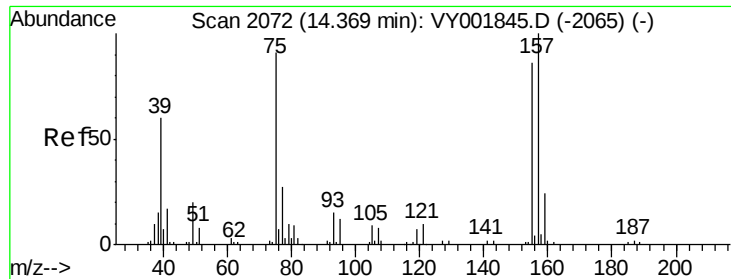
Tgt Ion: 91 Resp: 18824
Ion Ratio Lower Upper
91 100
92 12.7 27.5 82.4#
134 4.7 12.5 37.5#



#90
Hexachloroethane
Concen: 1.41 ug/l
RT: 13.97 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VY002038.D
Acq: 20 Mar 2020 15:34

Tgt Ion: 117 Resp: 1666
Ion Ratio Lower Upper
117 100
201 0.0 32.5 97.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.13 ug/l

RT: 14.37 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

Instrument :

MSVOA_Y

ClientSampleId :

TP-3-(1-2)

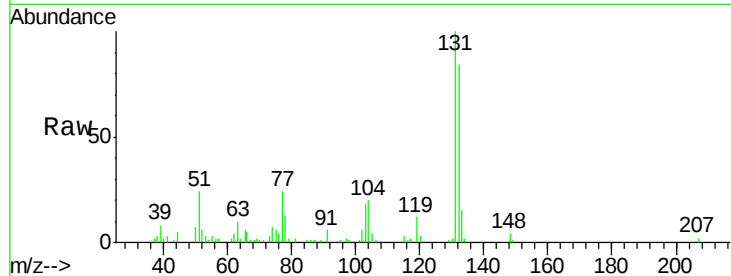
Tgt Ion: 75 Resp: 999

Ion Ratio Lower Upper

75 100

155 0.0 42.9 128.7#

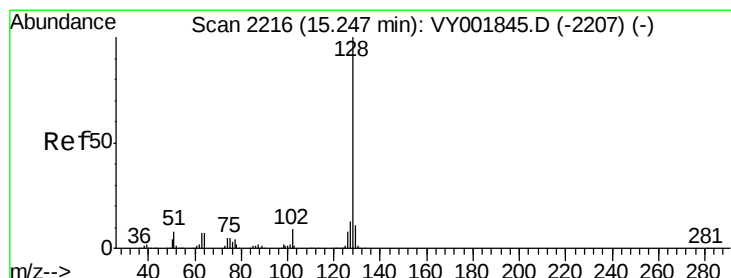
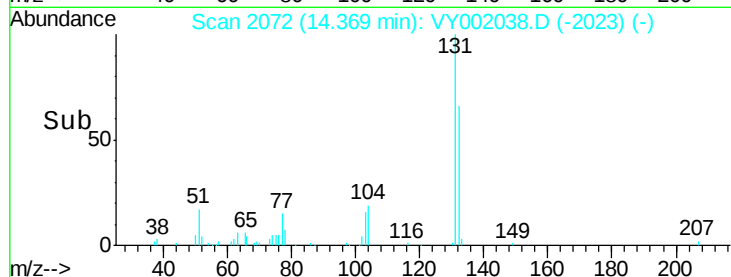
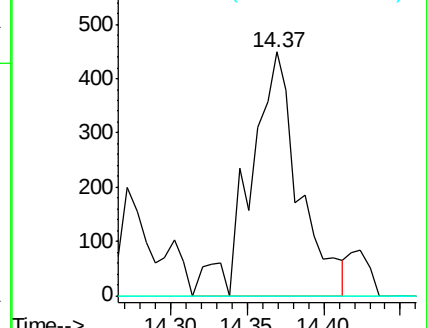
157 0.0 53.1 159.4#



Abundance Ion 74.90 (74.60 to 75.60): VY001845.D (-2065) (-)

Ion 154.80 (154.50 to 155.50): VY001845.D (-2065) (-)

Ion 156.80 (156.50 to 157.50): VY001845.D (-2065) (-)



#95

Naphthalene

Concen: 798.84 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY002038.D

Acq: 20 Mar 2020 15:34

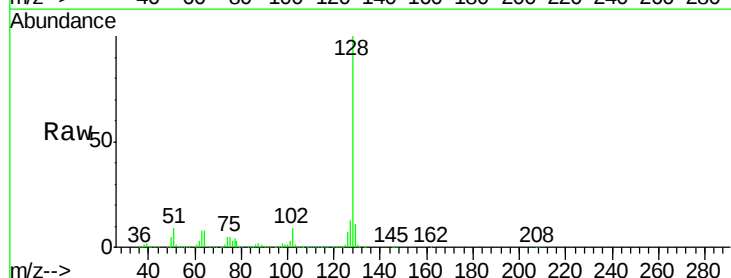
Tgt Ion: 128 Resp: 3329613

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

129 11.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): VY001845.D (-2207) (-)

Ion 127.00 (126.70 to 127.70): VY001845.D (-2207) (-)

Ion 129.00 (128.70 to 129.70): VY001845.D (-2207) (-)

