

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY123019\
 Data File : VY001118.D
 Acq On : 30 Dec 2019 12:11
 Operator : SY/MD
 Sample : VY1230SBL01
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 31 05:32:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	247027	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	462155	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	415659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	182449	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	128501	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	7.73	113	130716	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
50) Toluene-d8	10.18	98	535241	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	12.48	95	172411	44.34	ug/l	0.00
Spiked Amount			Recovery	=	88.68%	

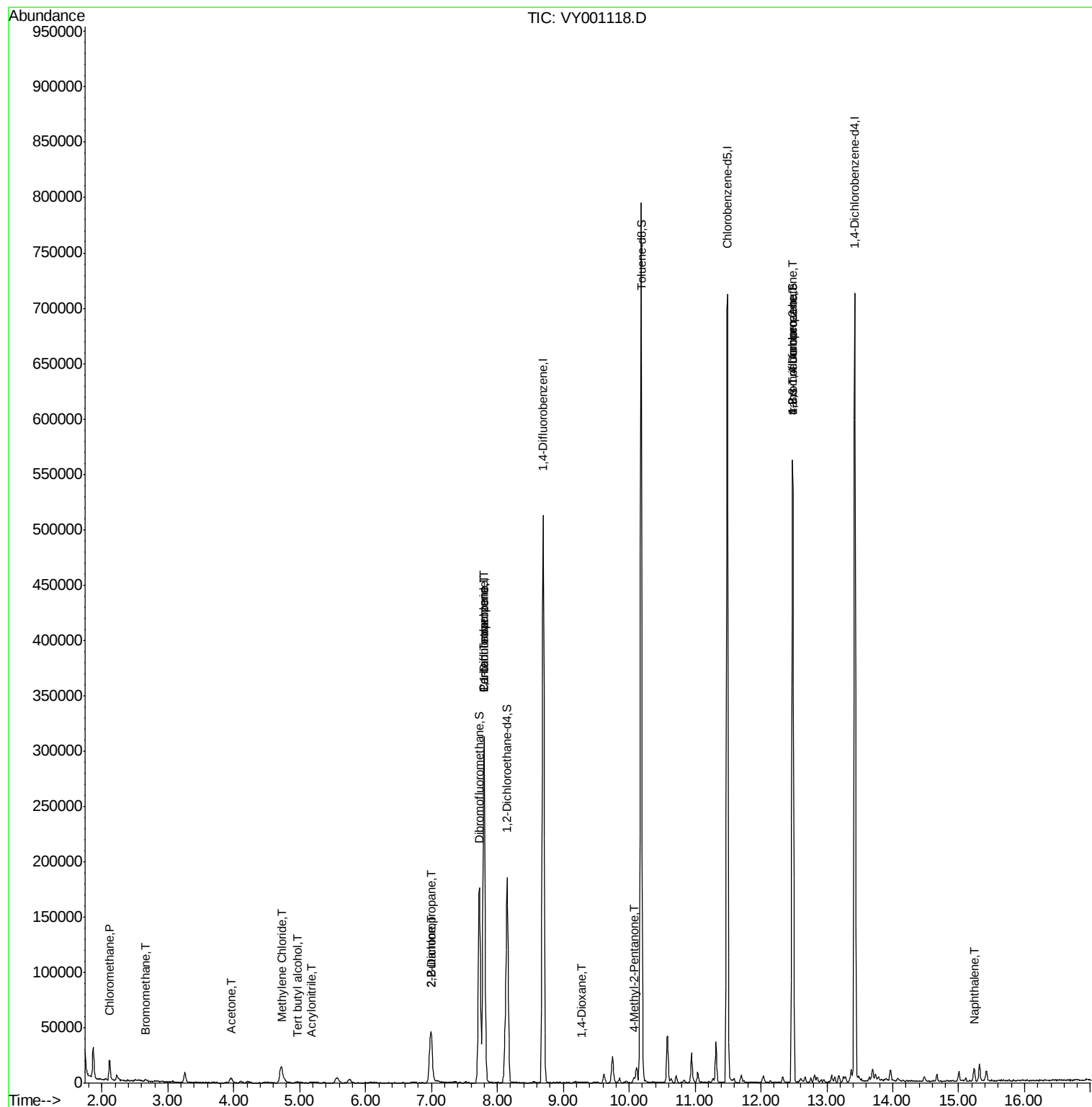
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	18481	6.308	ug/l	100
5) Bromomethane	2.67	94	935	1.206	ug/l	86
11) Tert butyl alcohol	4.96	59	1099	4.102	ug/l #	74
15) Acrylonitrile	5.18	53	1022	1.200	ug/l #	73
16) Acetone	3.96	43	7409	13.200	ug/l #	79
20) Methylene Chloride	4.72	84	11980	3.626	ug/l #	75
25) 2-Butanone	7.00	43	4568	4.633	ug/l	93
26) 2,2-Dichloropropane	6.99	77	4256	1.006	ug/l #	51
36) 1,1-Dichloropropene	7.80	75	19159	4.346	ug/l #	48
38) Carbon Tetrachloride	7.80	117	24104	6.240	ug/l #	17
49) 1,4-Dioxane	9.28	88	42	1.669	ug/l #	1
51) 4-Methyl-2-Pentanone	10.08	43	3096	1.314	ug/l #	80
76) 1,2,3-Trichloropropane	12.48	75	84389	37.519	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	84389	80.020	ug/l #	19
95) Naphthalene	15.23	128	9364	1.049	ug/l	98

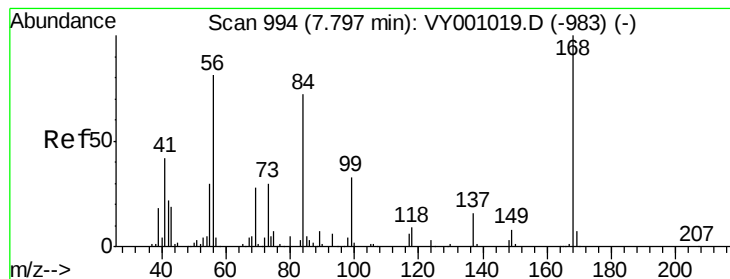
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 23 12:07:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

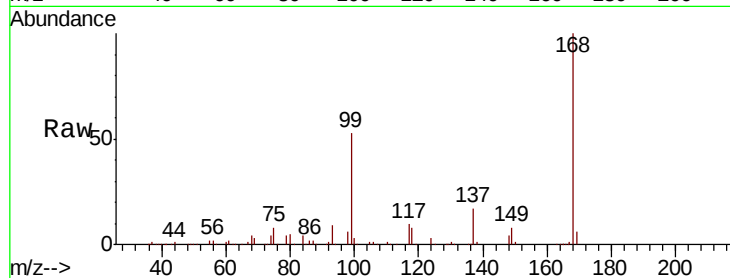
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 247027

Ion Ratio Lower Upper

168 100

99 53.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VY001118.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY001118.D (-945) (-)

7.80

120000

100000

80000

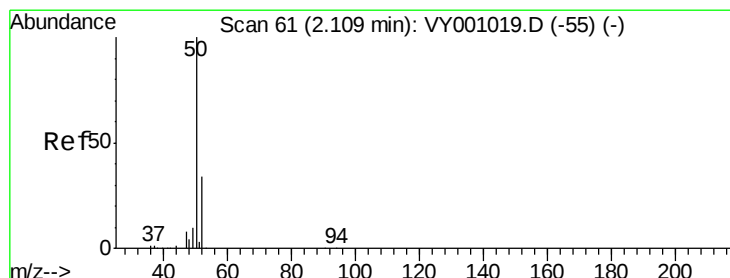
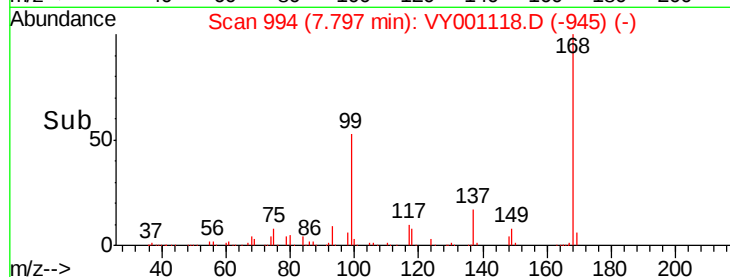
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 6.308 ug/l

RT: 2.11 min Scan# 61

Delta R.T. 0.00 min

Lab File: VY001118.D

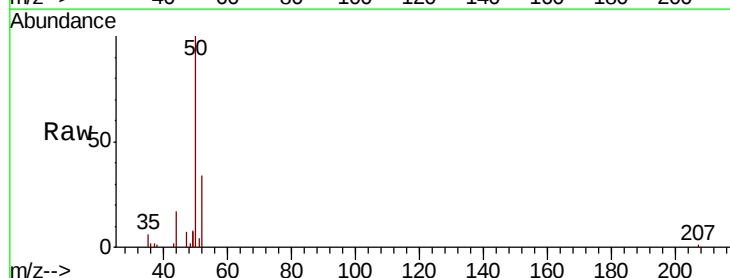
Acq: 30 Dec 2019 12:11

Tgt Ion: 50 Resp: 18481

Ion Ratio Lower Upper

50 100

52 34.1 27.1 40.7



Abundance Ion 49.90 (49.60 to 50.60): VY001118.D (-12) (-)

Ion 51.90 (51.60 to 52.60): VY001118.D (-12) (-)

2.11

12000

10000

8000

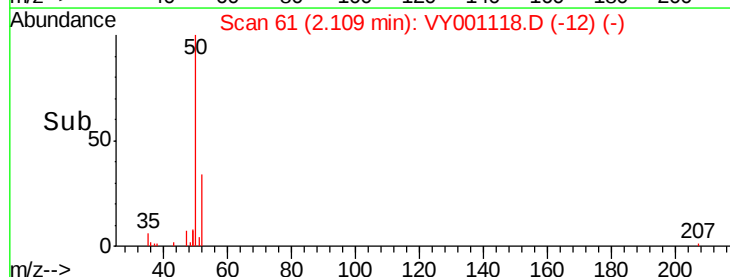
6000

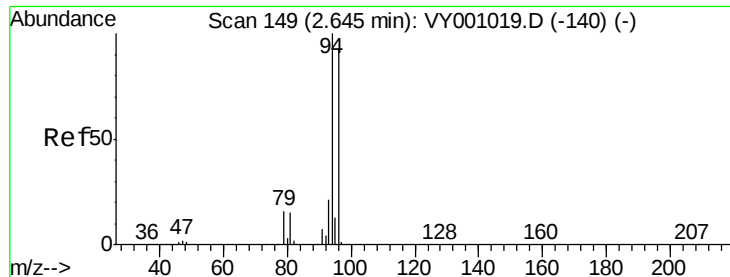
4000

2000

0

Time-->





#5

Bromomethane

Concen: 1.206 ug/l

RT: 2.67 min Scan# 153

Delta R.T. 0.03 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

Instrument :

MSVOA_Y

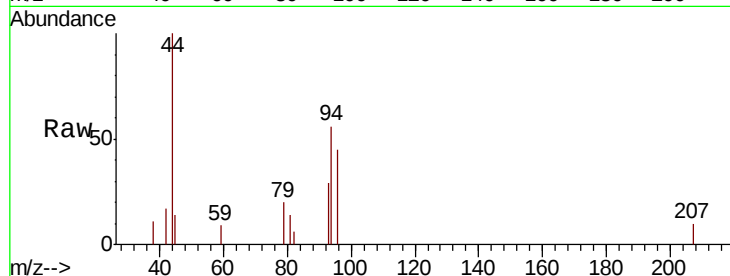
ClientSampleId :

Tot Ion: 94 Resp: 935

Ion Ratio Lower Upper

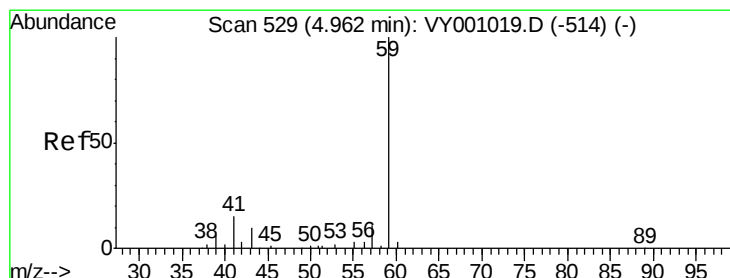
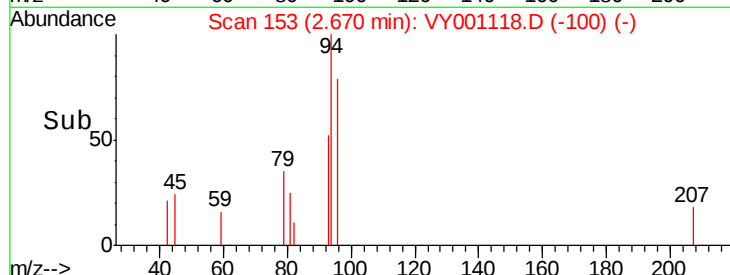
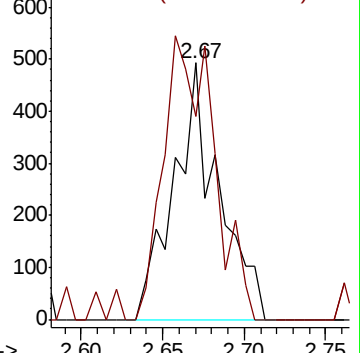
94 100

96 79.1 74.2 111.4



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#11

Tert butyl alcohol

Concen: 4.102 ug/l

RT: 4.96 min Scan# 529

Delta R.T. 0.00 min

Lab File: VY001118.D

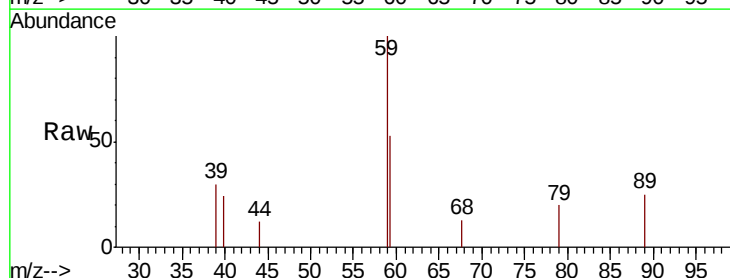
Acq: 30 Dec 2019 12:11

Tgt Ion: 59 Resp: 1099

Ion Ratio Lower Upper

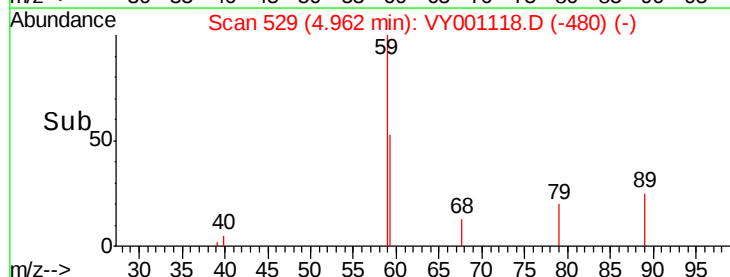
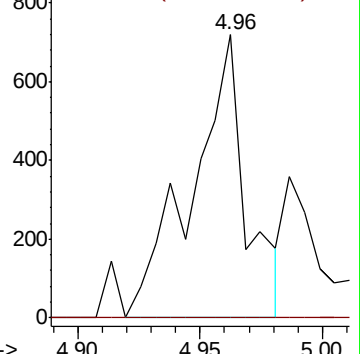
59 100

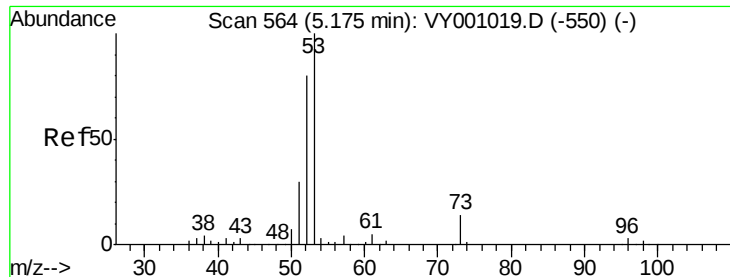
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#15

Acrylonitrile

Concen: 1.200 ug/l

RT: 5.18 min Scan# 565

Delta R.T. 0.01 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

Instrument :

MSVOA_Y

ClientSampleId :

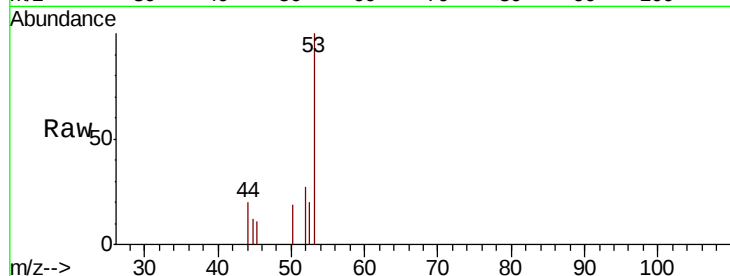
Tot Ion: 53 Resp: 1022

Ion Ratio Lower Upper

53 100

52 67.8 63.6 95.4

51 0.0 26.7 40.1#



Abundance Ion 53.00 (52.70 to 53.70): VY001118.D (-515) (-)

Ion 52.00 (51.70 to 52.70): VY001118.D (-515) (-)

Ion 51.00 (50.70 to 51.70): VY001118.D (-515) (-)

5.18

400

300

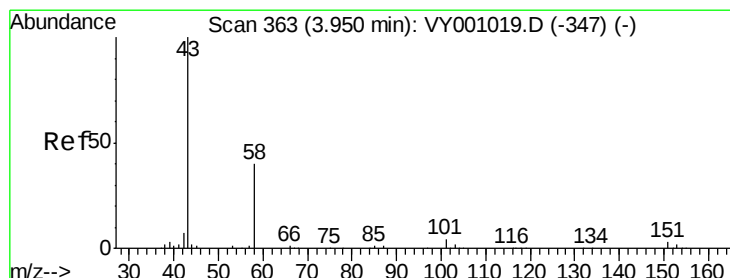
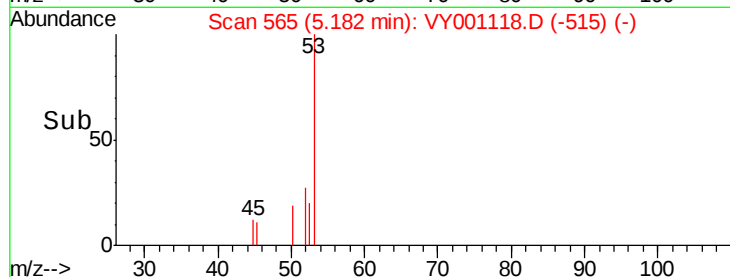
200

100

0

5.10 5.15 5.20 5.25

Time-->



#16

Acetone

Concen: 13.200 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY001118.D

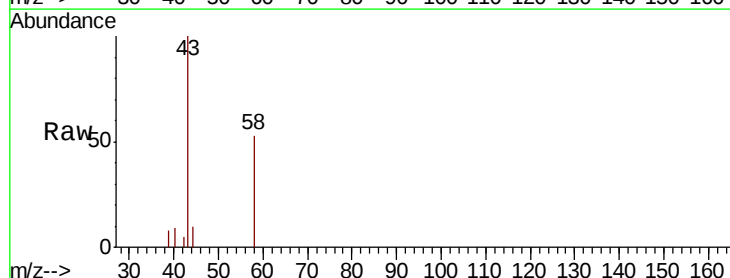
Acq: 30 Dec 2019 12:11

Tgt Ion: 43 Resp: 7409

Ion Ratio Lower Upper

43 100

58 52.9 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VY001118.D (-314) (-)

Ion 58.00 (57.70 to 58.70): VY001118.D (-314) (-)

3.96

2500

2000

1500

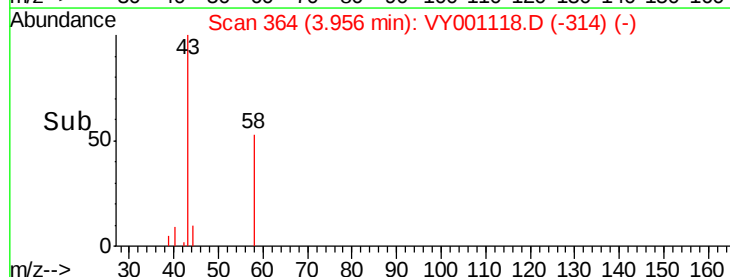
1000

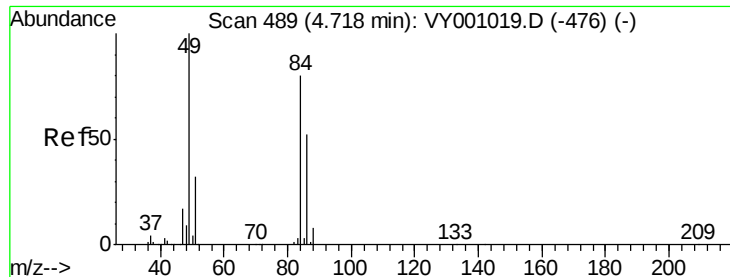
500

0

3.85 3.90 3.95 4.00 4.05

Time-->

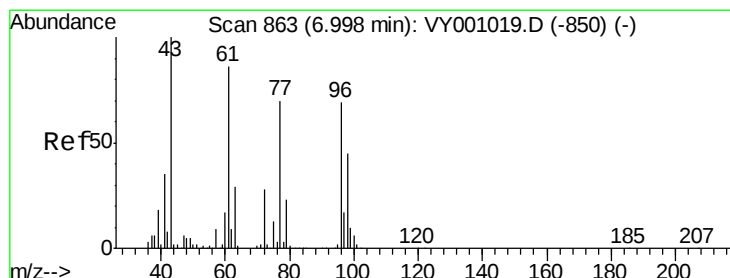
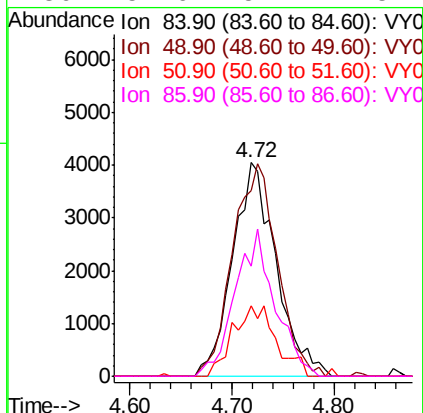
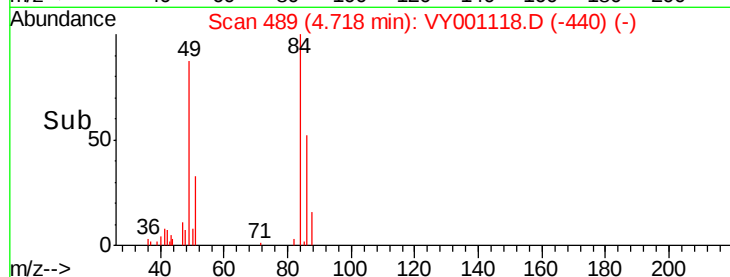
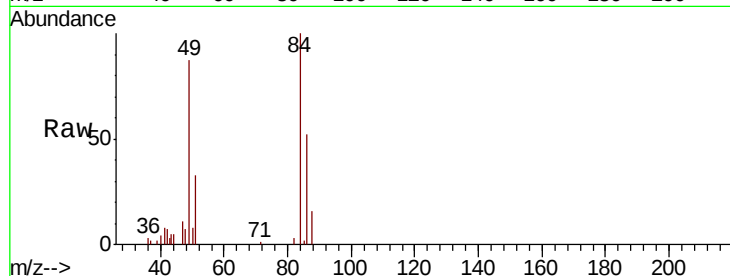




#20
Methvlene Chloride
Concen: 3.626 ug/l
RT: 4.72 min Scan# 489
Delta R.T. 0.00 min
Lab File: VY001118.D
Acq: 30 Dec 2019 12:11

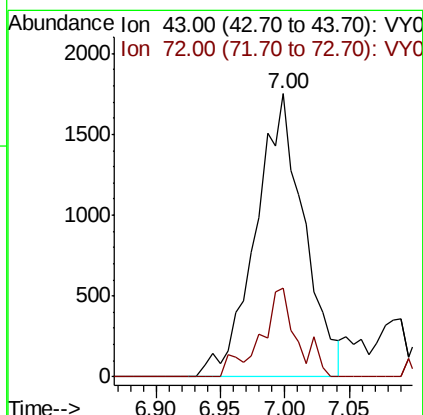
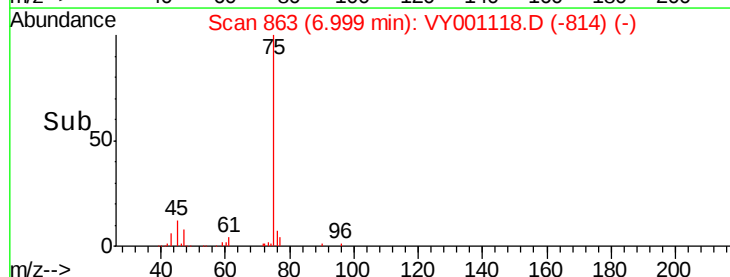
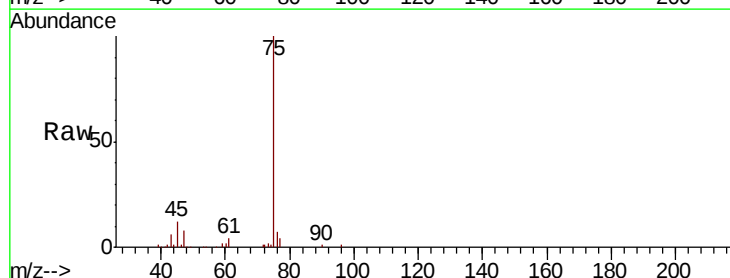
Instrument :
MSVOA_Y
ClientSampleId :

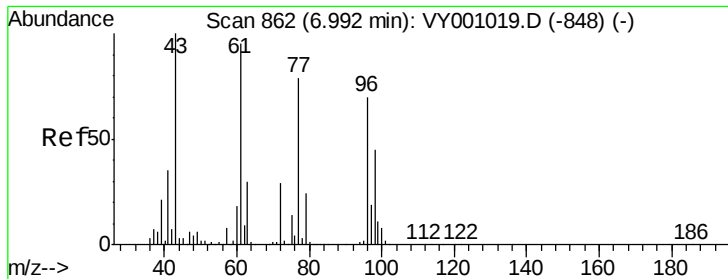
Tot Ion: 84 Resp: 11980
Ion Ratio Lower Upper
84 100
49 87.1 99.8 149.6#
51 33.2 31.4 47.2
86 51.6 52.2 78.2#



#25
2-Butanone
Concen: 4.633 ug/l
RT: 7.00 min Scan# 863
Delta R.T. 0.00 min
Lab File: VY001118.D
Acq: 30 Dec 2019 12:11

Tgt Ion: 43 Resp: 4568
Ion Ratio Lower Upper
43 100
72 31.5 22.4 33.6





#26

2,2-Dichloropropane

Concen: 1.006 ug/l

RT: 6.99 min Scan# 861

Delta R.T. -0.01 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

Instrument :

MSVOA_Y

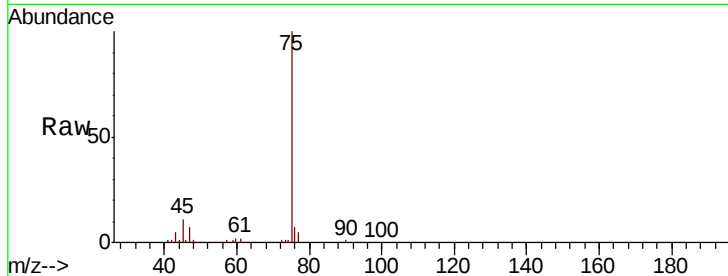
ClientSampleId :

Tot Ion: 77 Resp: 4256

Ion Ratio Lower Upper

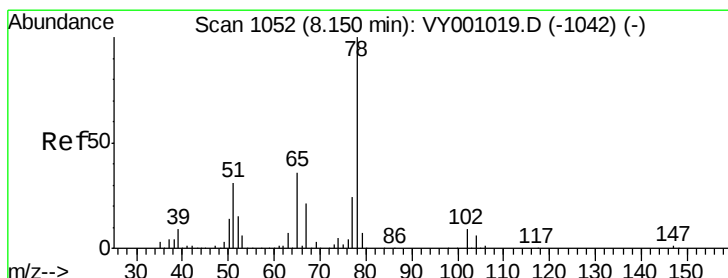
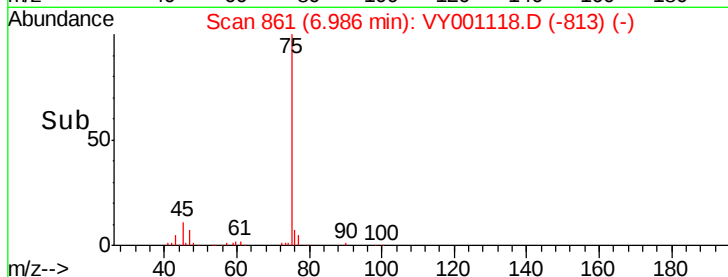
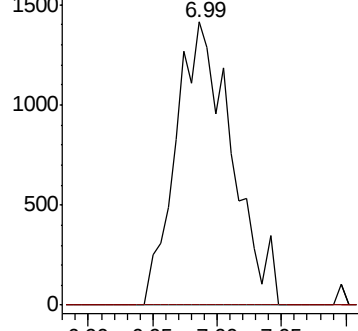
77 100

97 0.0 12.0 36.1#



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0



#33

1,2-Dichloroethane-d4

Concen: 52.743 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY001118.D

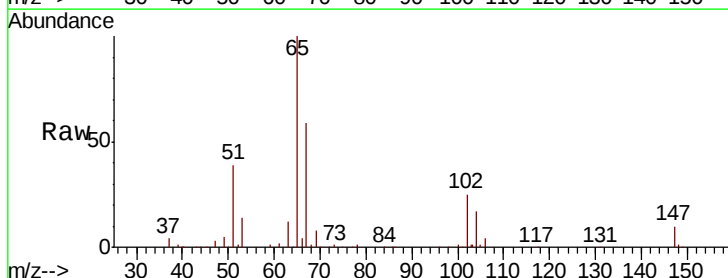
Acq: 30 Dec 2019 12:11

Tgt Ion: 65 Resp: 128501

Ion Ratio Lower Upper

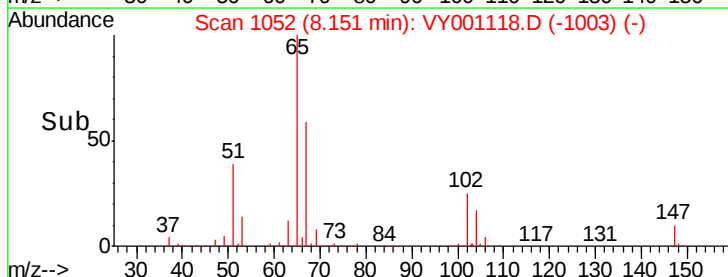
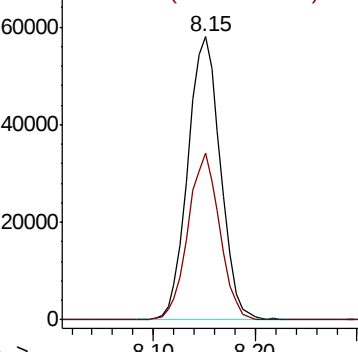
65 100

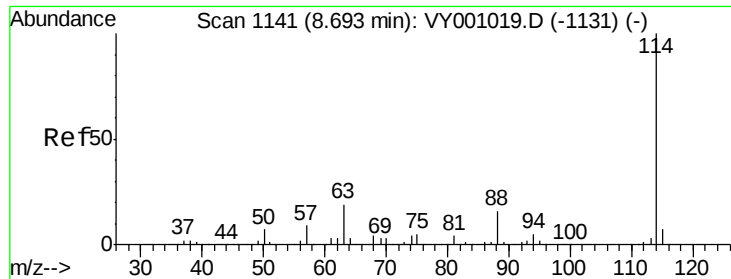
67 57.3 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

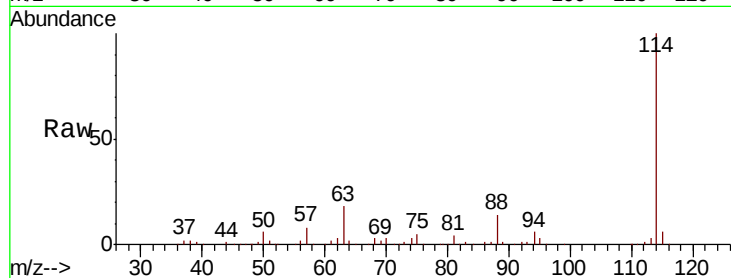




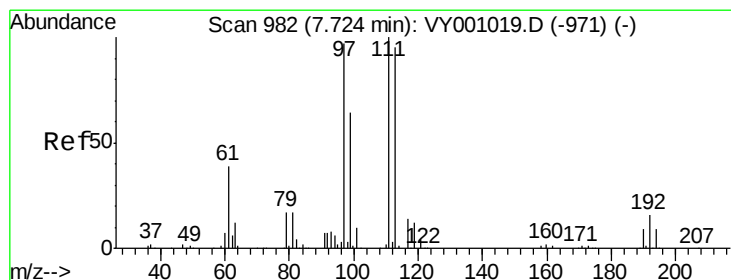
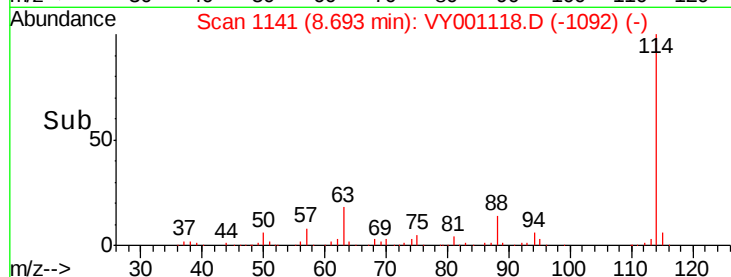
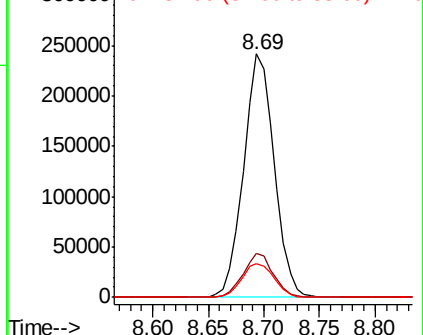
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.69 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VY001118.D
Acq: 30 Dec 2019 12:11

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:114 Resp: 462155
Ion Ratio Lower Upper
114 100
63 18.2 0.0 37.0
88 13.6 0.0 32.0

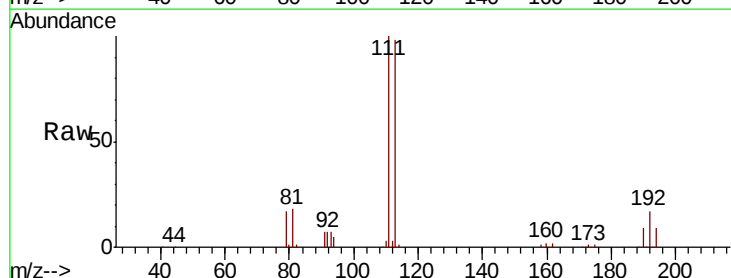


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VY0
Ion 87.90 (87.60 to 88.60): VY0

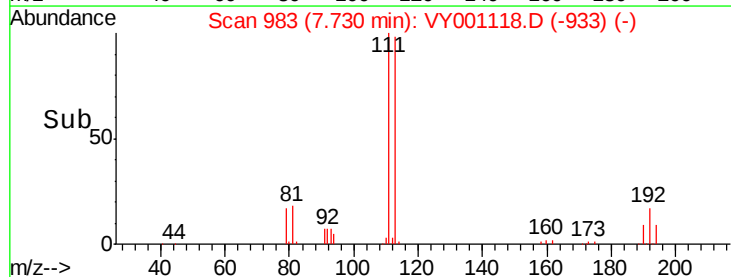
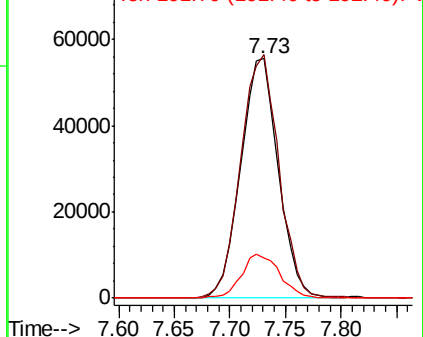


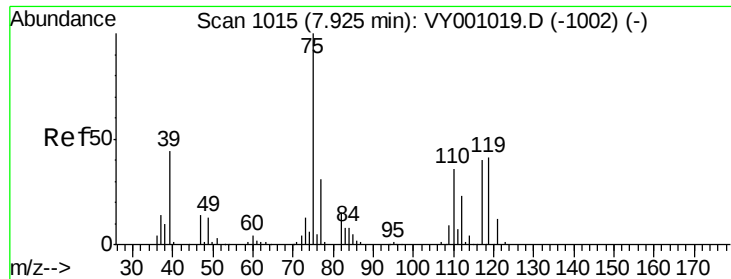
#35
Dibromofluoromethane
Concen: 48.032 ug/l
RT: 7.73 min Scan# 983
Delta R.T. 0.01 min
Lab File: VY001118.D
Acq: 30 Dec 2019 12:11

Tgt Ion:113 Resp: 130716
Ion Ratio Lower Upper
113 100
111 103.0 83.0 124.4
192 18.5 14.6 21.8



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

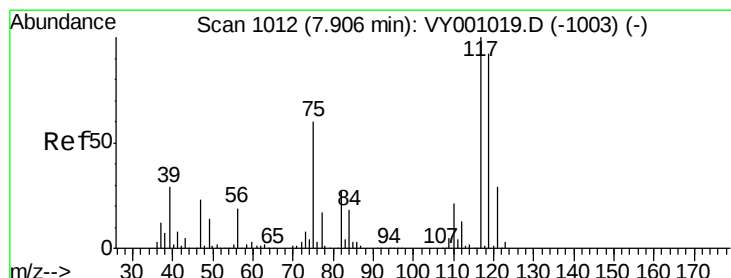
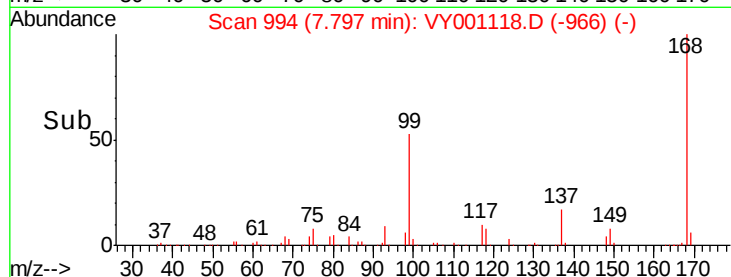
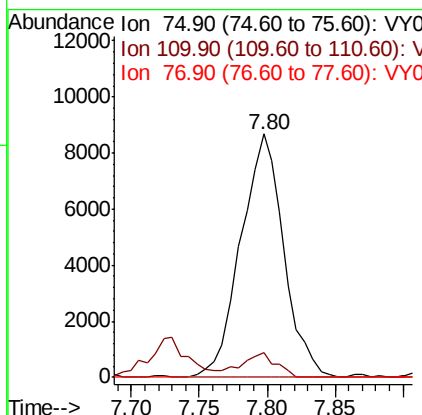
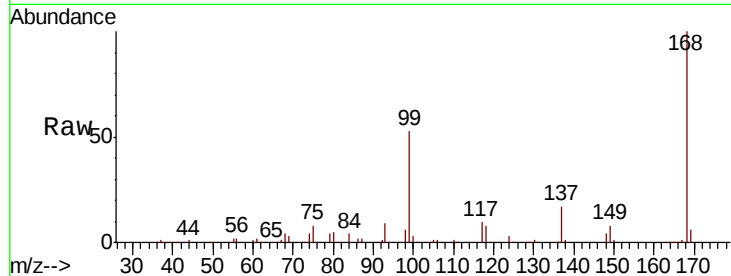




#36
 1,1-Dichloropropene
 Concen: 4.346 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY001118.D
 Acq: 30 Dec 2019 12:11

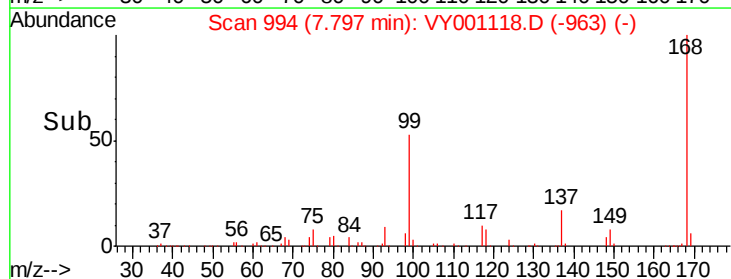
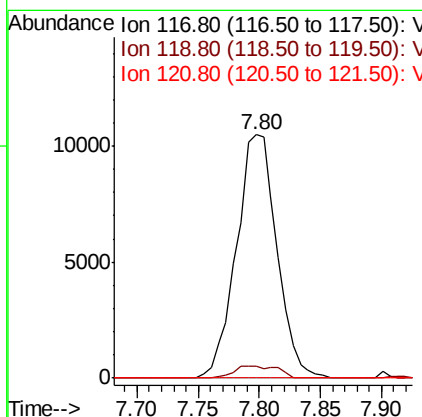
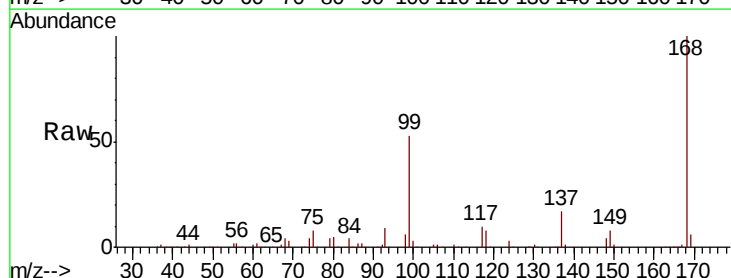
Instrument :
 MSVOA_Y
 ClientSampleId :

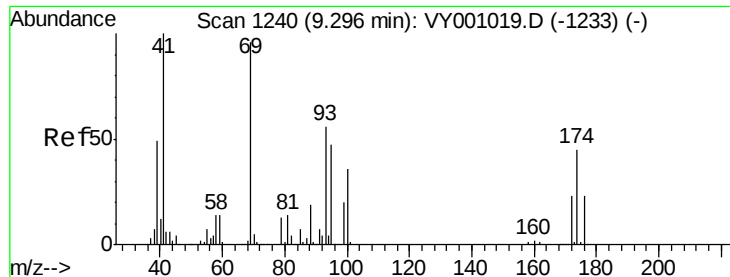
Tot Ion	75	Resp	19159
Ion Ratio	Lower	Upper	
75	100		
110	7.9	18.1	54.4#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.240 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.11 min
 Lab File: VY001118.D
 Acq: 30 Dec 2019 12:11

Tgt Ion	117	Resp	24104
Ion Ratio	Lower	Upper	
117	100		
119	5.0	74.2	111.2#
121	0.0	22.9	34.3#





#49

1,4-Dioxane

Concen: 1.669 ug/l

RT: 9.28 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

Instrument :

MSVOA_Y

ClientSampled :

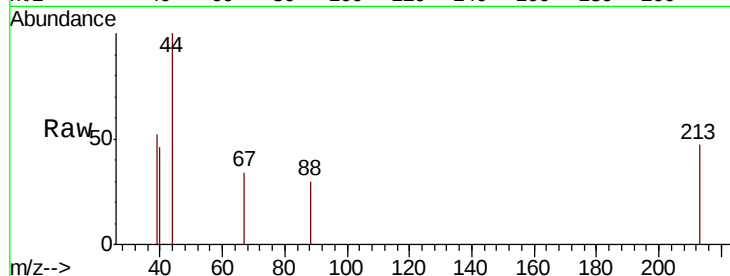
Tot Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 397.6 23.0 34.4#

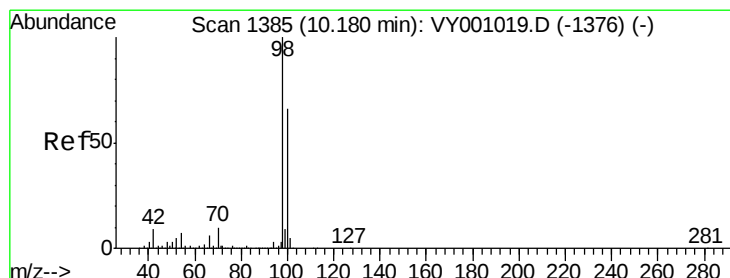
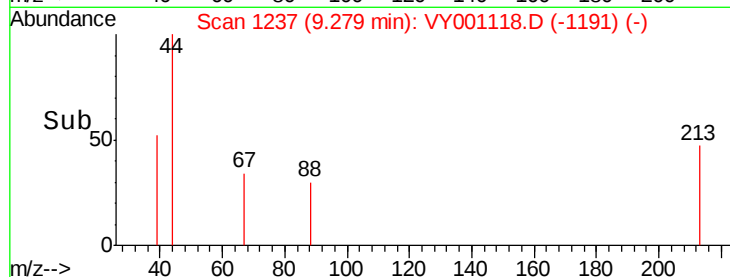
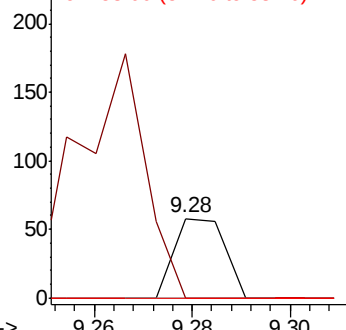
58 0.0 54.9 82.3#



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: 50.327 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY001118.D

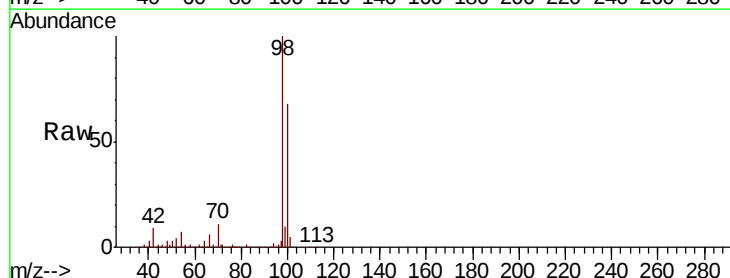
Acq: 30 Dec 2019 12:11

Tgt Ion: 98 Resp: 535241

Ion Ratio Lower Upper

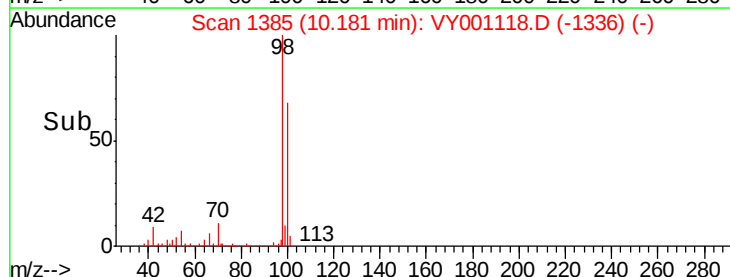
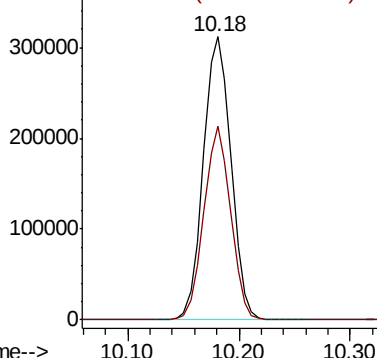
98 100

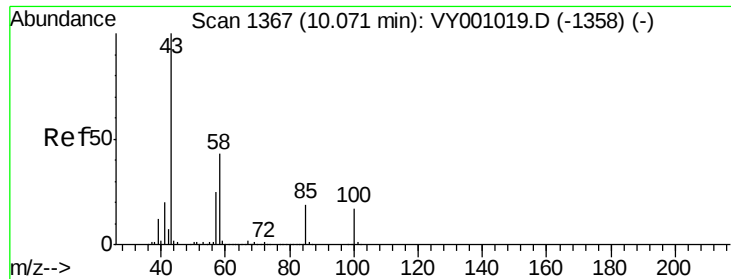
100 66.2 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 1.314 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

Instrument :

MSVOA_Y

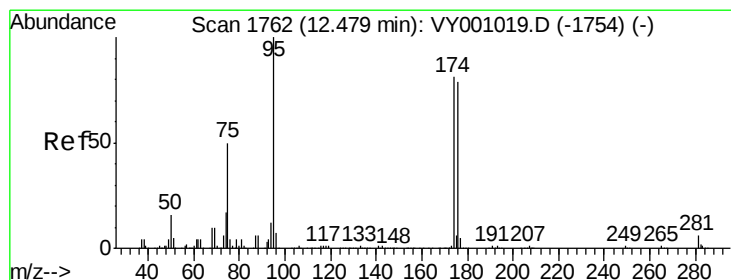
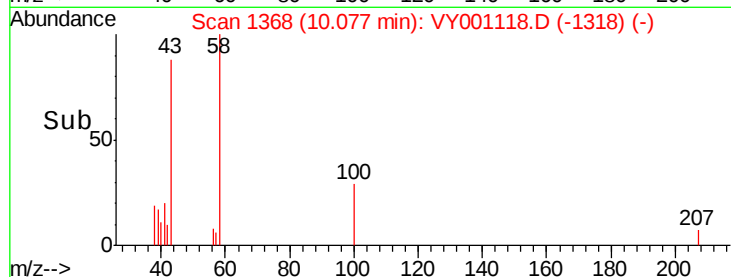
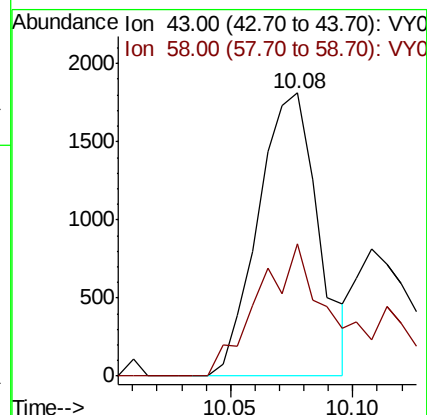
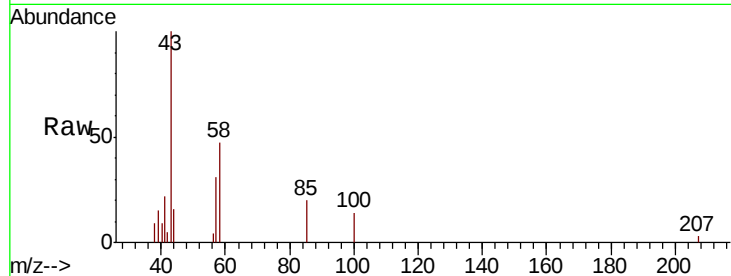
ClientSampleId :

Tot Ion: 43 Resp: 3096

Ion Ratio Lower Upper

43 100

58 56.0 34.6 52.0#



#62

4-Bromofluorobenzene

Concen: 44.339 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

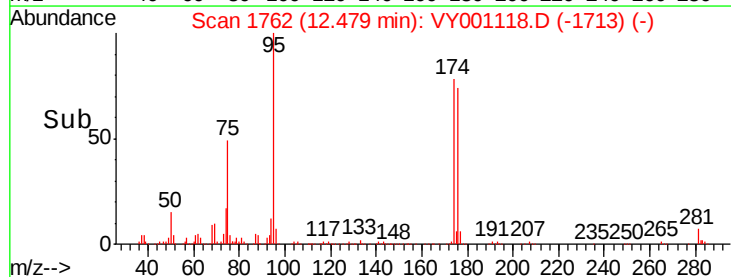
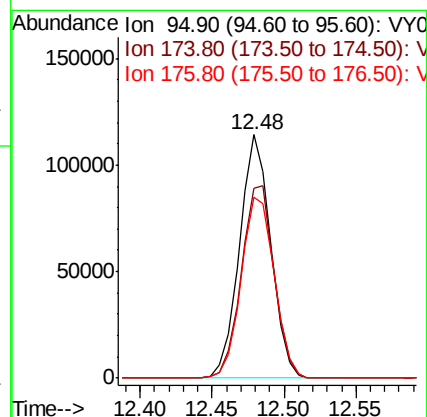
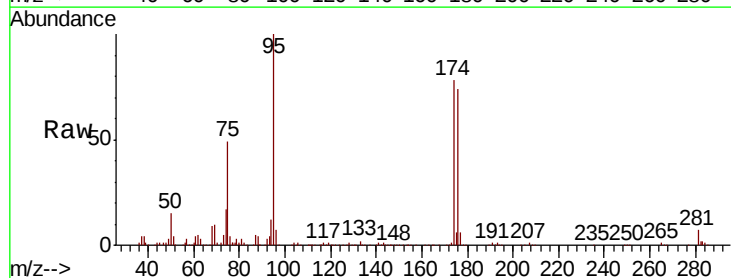
Tgt Ion: 95 Resp: 172411

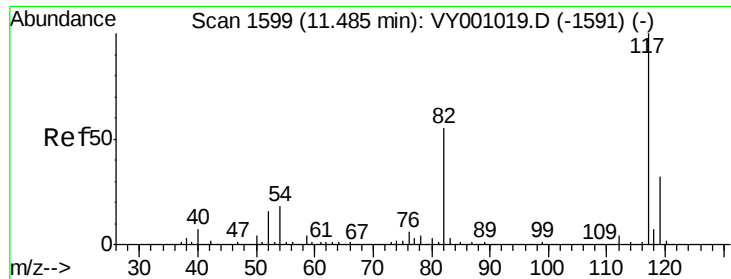
Ion Ratio Lower Upper

95 100

174 82.3 0.0 156.4

176 78.9 0.0 155.0

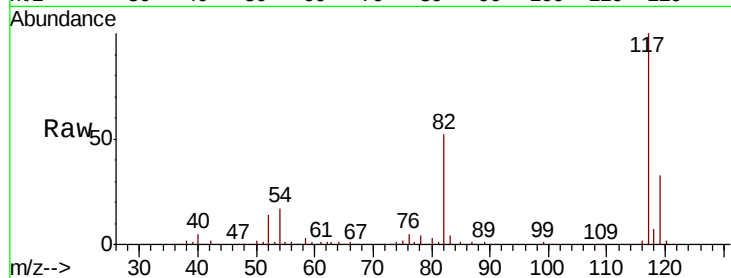




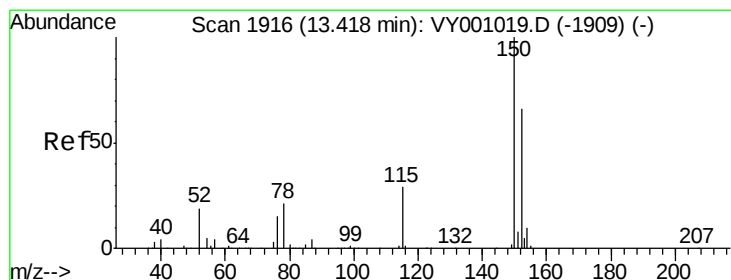
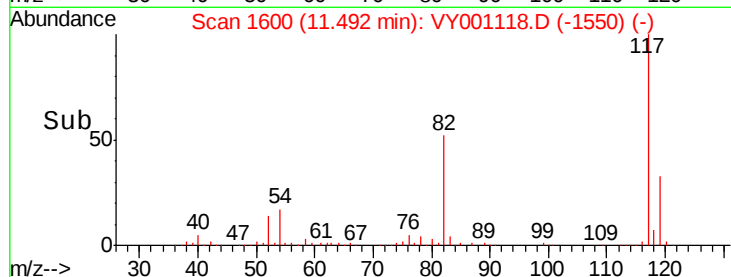
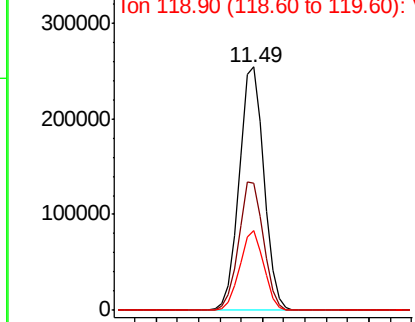
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VY001118.D
Acq: 30 Dec 2019 12:11

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 415659
Ion Ratio Lower Upper
117 100
82 52.1 43.8 65.8
119 32.7 25.8 38.6

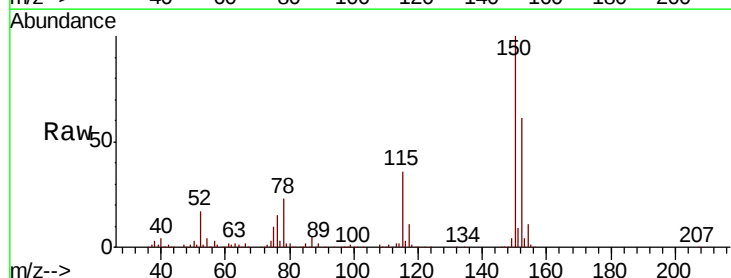


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

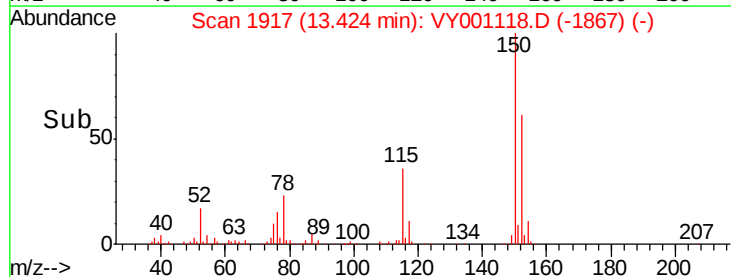
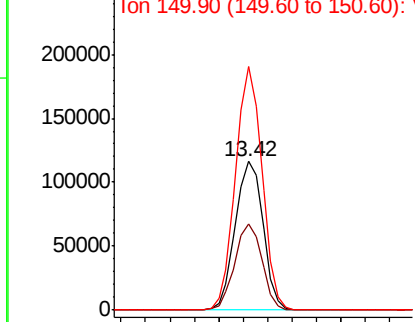


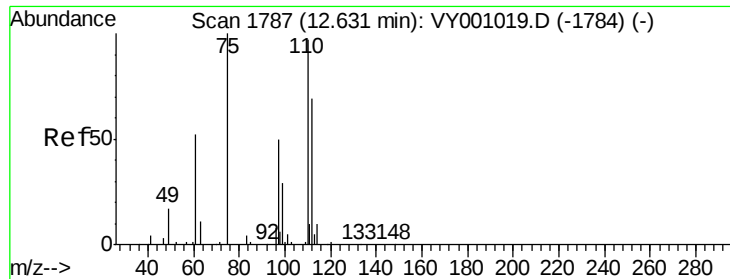
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.01 min
Lab File: VY001118.D
Acq: 30 Dec 2019 12:11

Tgt Ion:152 Resp: 182449
Ion Ratio Lower Upper
152 100
115 56.7 29.8 89.3
150 156.5 0.0 352.6



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: 37.519 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

Instrument :

MSVOA_Y

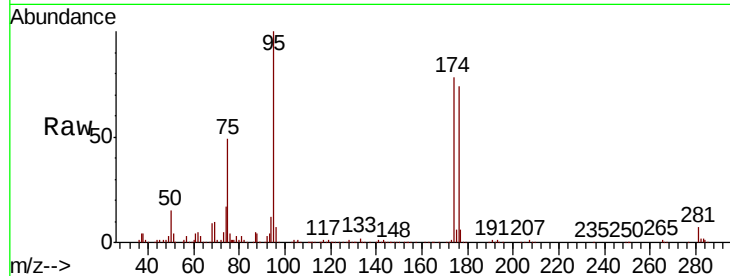
ClientSampleId :

Tot Ion: 75 Resp: 84389

Ion Ratio Lower Upper

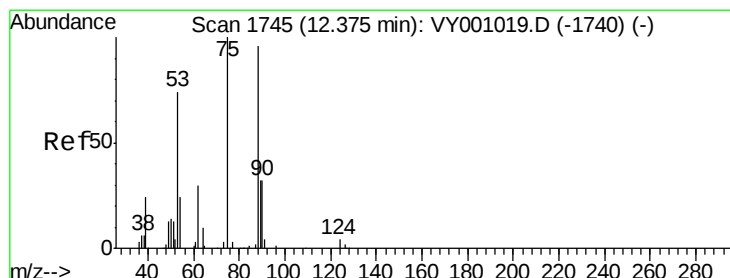
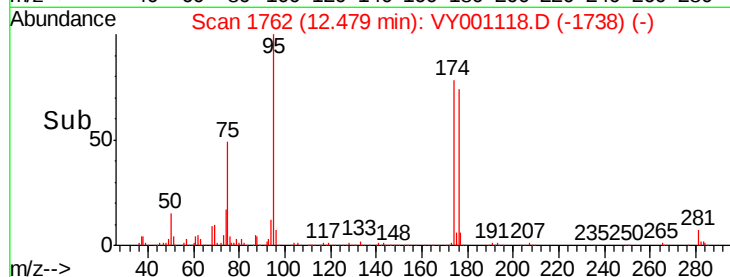
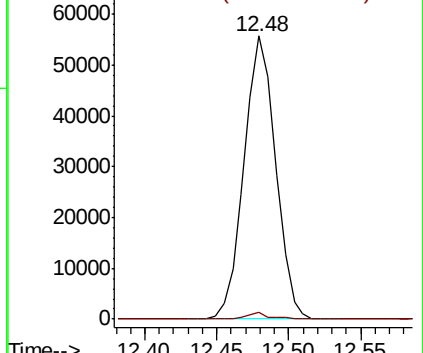
75 100

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: 80.020 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY001118.D

Acq: 30 Dec 2019 12:11

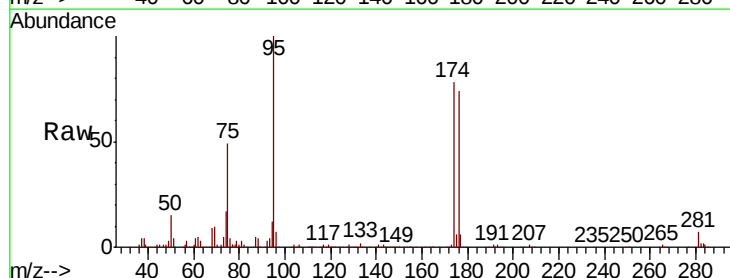
Tgt Ion: 75 Resp: 84389

Ion Ratio Lower Upper

75 100

53 0.0 60.6 91.0#

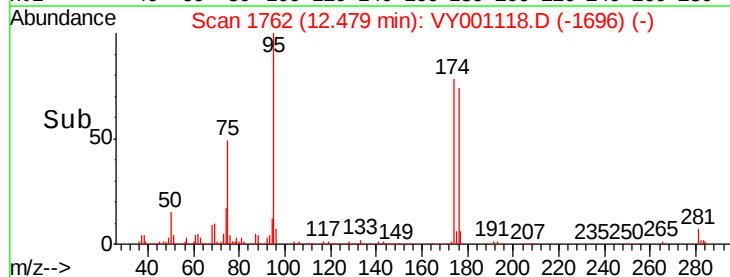
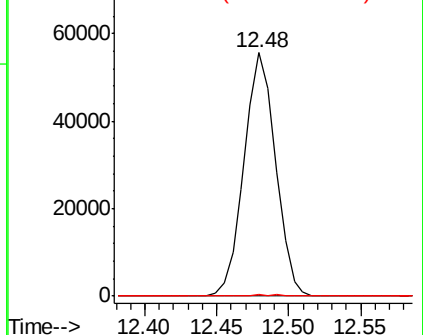
89 0.4 35.4 53.0#

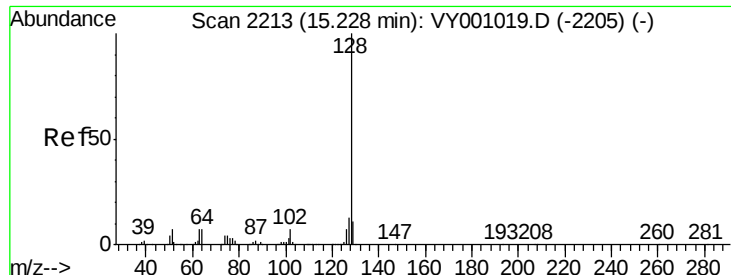


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

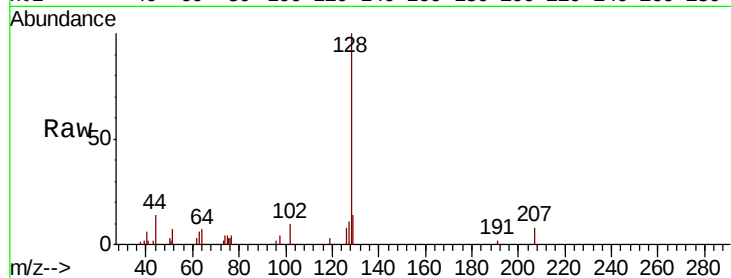




#95
Naphthalene
Concen: 1.049 ug/l
RT: 15.23 min Scan# 2213
Delta R.T. 0.00 min
Lab File: VY001118.D
Acq: 30 Dec 2019 12:11

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.9	14.9
129	11.8	8.6	13.0



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

