

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY121719\
 Data File : VY000979.D
 Acq On : 17 Dec 2019 15:27
 Operator : SY/MD
 Sample : K6350-01
 Misc : 6.1G/5ML/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RO-1-3

Quant Time: Dec 18 05:51:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y112719S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 12:40:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	224300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	416602	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	376151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	166834	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	132622	55.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.28%	
35) Dibromofluoromethane	7.73	113	121831	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
50) Toluene-d8	10.18	98	495531	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	
62) 4-Bromofluorobenzene	12.48	95	164615	45.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.32%	

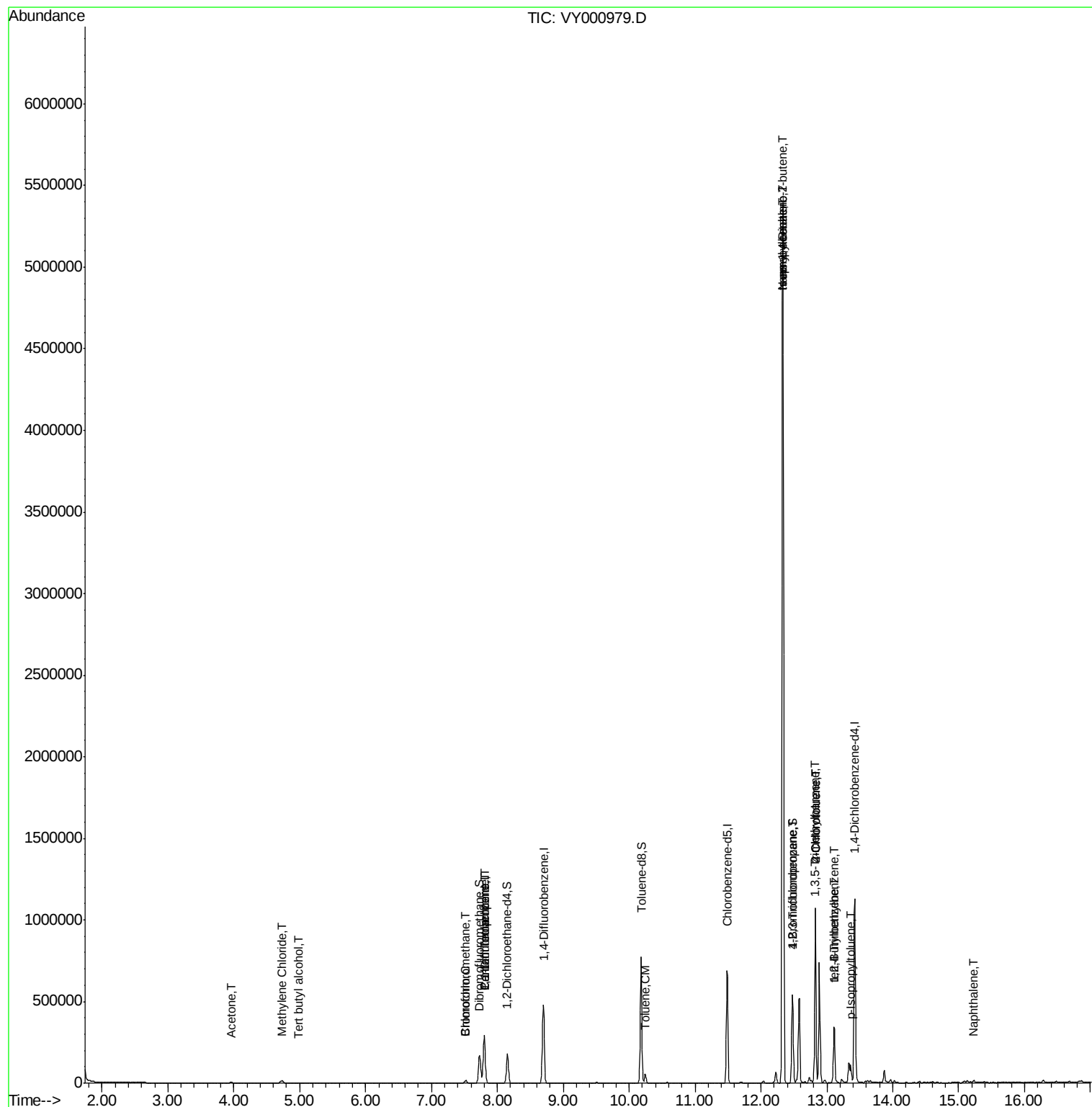
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.65	94	34	Below Cal	#	56
11) Tert butyl alcohol	4.98	59	396	1.651	ug/l #	74
16) Acetone	3.96	43	9092	16.629	ug/l	98
20) Methylene Chloride	4.74	84	10967	3.805	ug/l	94
28) Bromochloromethane	7.52	49	1293	2.724	ug/l #	15
30) Chloroform	7.52	83	13040	2.721	ug/l	94
36) 1,1-Dichloropropene	7.80	75	18547	4.477	ug/l #	49
38) Carbon Tetrachloride	7.80	117	21660	5.872	ug/l #	14
52) Toluene	10.24	92	23601	3.159	ug/l	90
73) Isopropylbenzene	12.33	105	208547	15.699	ug/l #	58
74) N-amyl acetate	12.33	43	113226	30.624	ug/l #	15
76) 1,2,3-Trichloropropane	12.48	75	85365	45.162	ug/l #	100
79) 2-Chlorotoluene	12.83	91	75832	8.463	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.81	105	18028	1.639	ug/l	82
81) trans-1,4-Dichloro-2-buten	12.33	75	6802	7.069	ug/l #	1
82) 4-Chlorotoluene	12.83	91	75263	8.153	ug/l #	40
83) tert-Butylbenzene	13.11	119	13135	1.420	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.11	105	25880	2.352	ug/l	93
86) p-Isopropyltoluene	13.36	119	61724	5.277	ug/l	99
95) Naphthalene	15.23	128	10711	1.342	ug/l	98

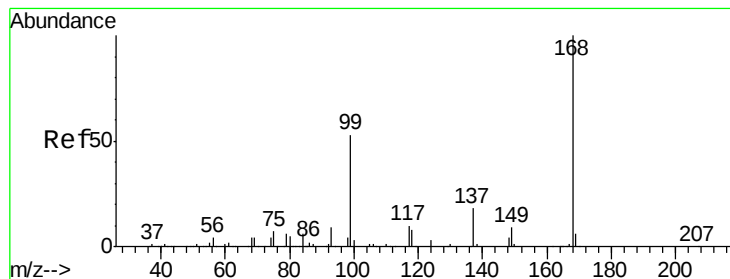
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :

MSVOA_Y

ClientSampleId :

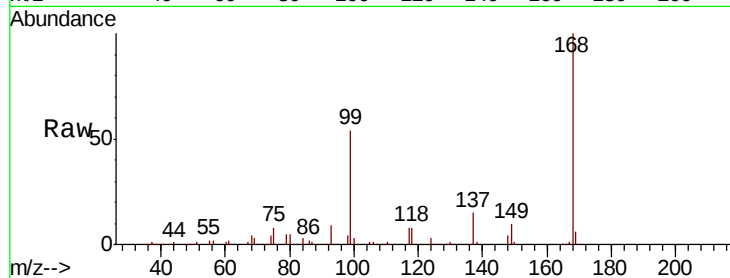
RO-1-3

Tgt Ion: 168 Resp: 224300

Ion Ratio Lower Upper

168 100

99 54.4 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000979.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000979.D (-946) (-)

7.80

120000

100000

80000

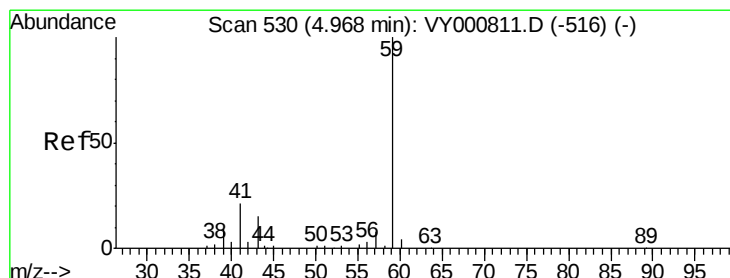
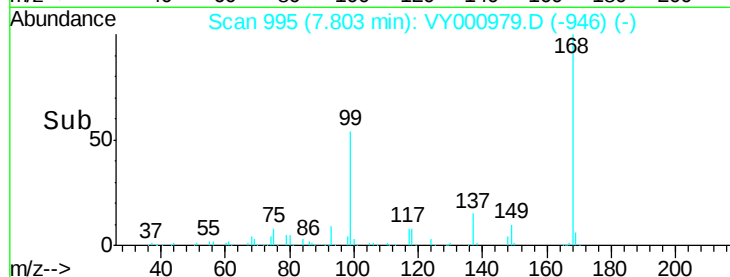
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 1.651 ug/l

RT: 4.98 min Scan# 532

Delta R.T. 0.01 min

Lab File: VY000979.D

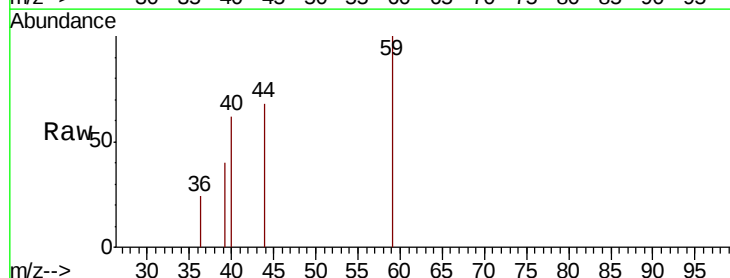
Acq: 17 Dec 2019 15:27

Tgt Ion: 59 Resp: 396

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY000979.D (-481) (-)

Ion 57.00 (56.70 to 57.70): VY000979.D (-481) (-)

4.98

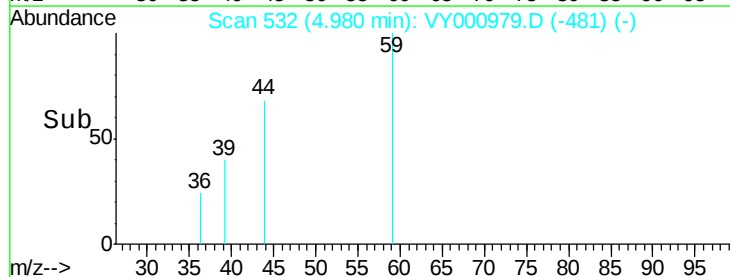
300

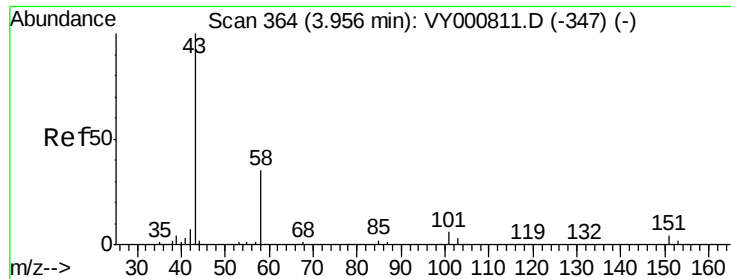
200

100

0

Time--> 4.96 4.98 5.00 5.02





#16

Acetone

Concen: 16.629 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :

MSVOA_Y

ClientSampleId :

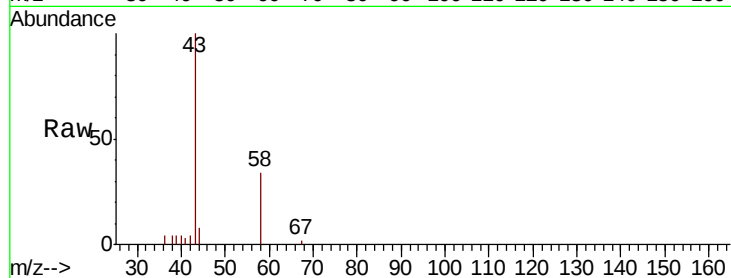
RO-1-3

Tgt Ion: 43 Resp: 9092

Ion Ratio Lower Upper

43 100

58 33.6 28.0 42.0



Abundance Ion 43.00 (42.70 to 43.70): VY000979.D (-315) (-)

Ion 58.00 (57.70 to 58.70): VY000979.D (-315) (-)

3.96

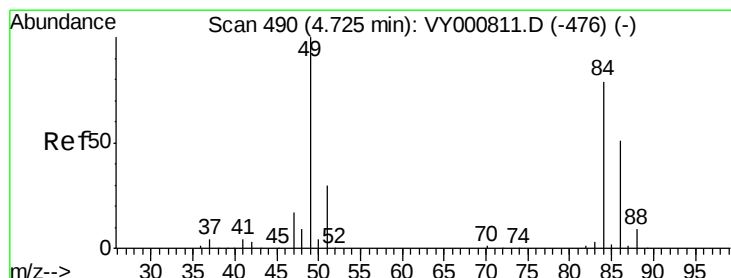
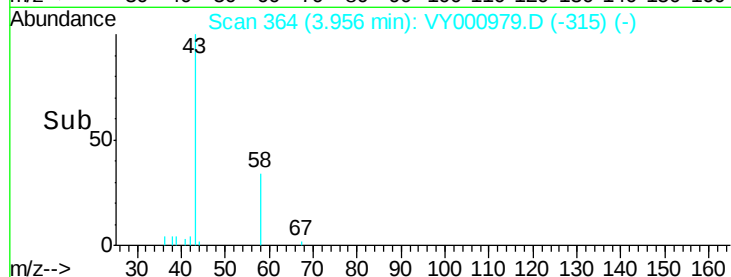
3000

2000

1000

0

Time--> 3.85 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 3.805 ug/l

RT: 4.74 min Scan# 492

Delta R.T. 0.01 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Tgt Ion: 84 Resp: 10967

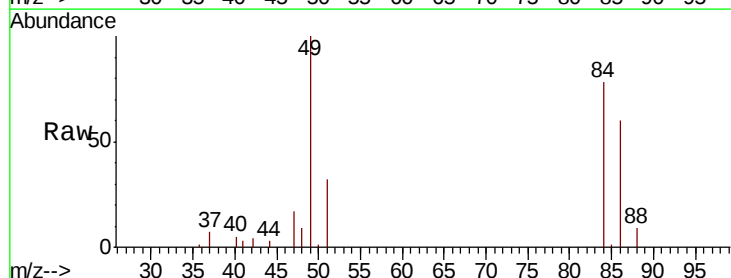
Ion Ratio Lower Upper

84 100

49 126.1 101.3 151.9

51 41.5 30.6 45.8

86 76.7 51.3 76.9



Abundance Ion 83.90 (83.60 to 84.60): VY000979.D (-441) (-)

Ion 48.90 (48.60 to 49.60): VY000979.D (-441) (-)

Ion 50.90 (50.60 to 51.60): VY000979.D (-441) (-)

Ion 85.90 (85.60 to 86.60): VY000979.D (-441) (-)

4.74

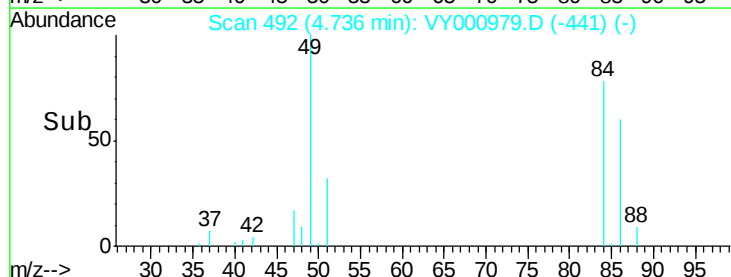
6000

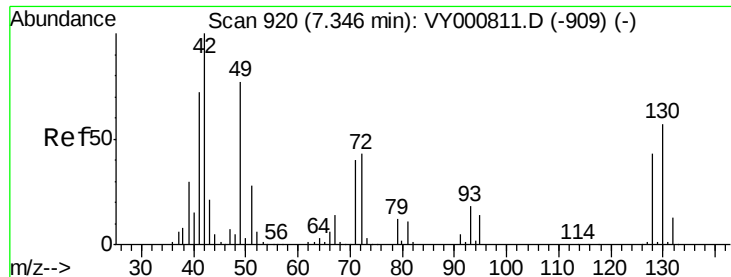
4000

2000

0

Time--> 4.60 4.65 4.70 4.75 4.80





#28

Bromochloromethane

Concen: 2.724 ug/l

RT: 7.52 min Scan# 949

Delta R.T. 0.18 min

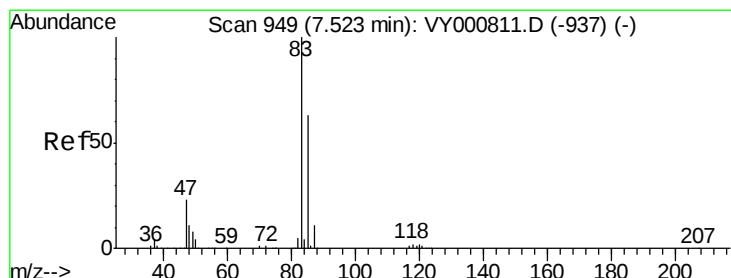
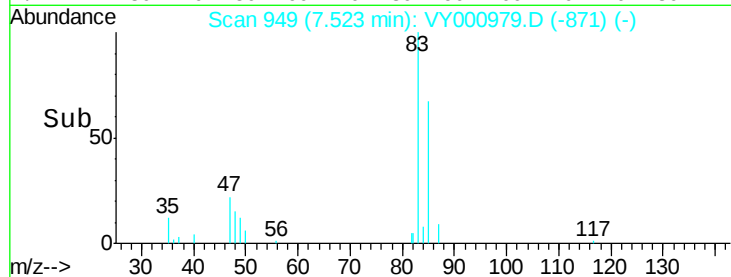
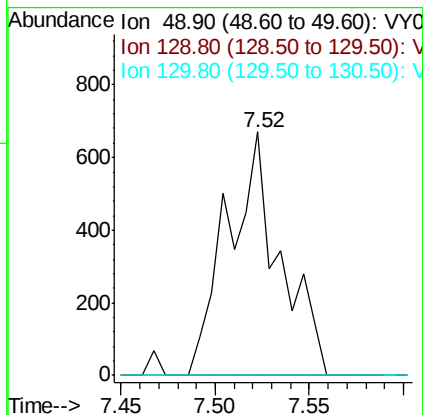
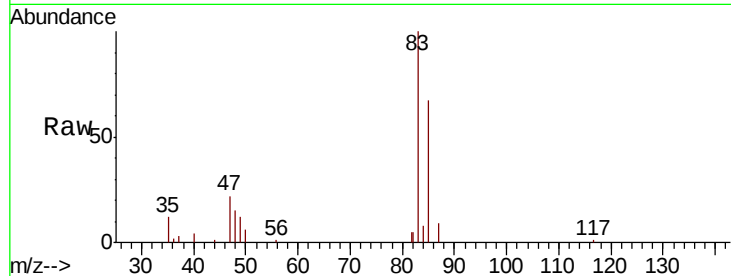
Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :
MSVOA_Y
ClientSampled :
RO-1-3

Tgt Ion: 49 Resp: 1293

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	58.7	88.1#



#30

Chloroform

Concen: 2.721 ug/l

RT: 7.52 min Scan# 949

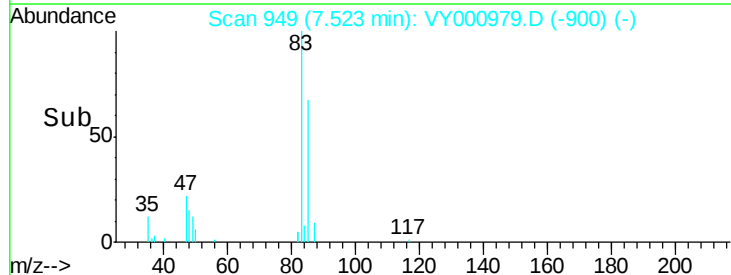
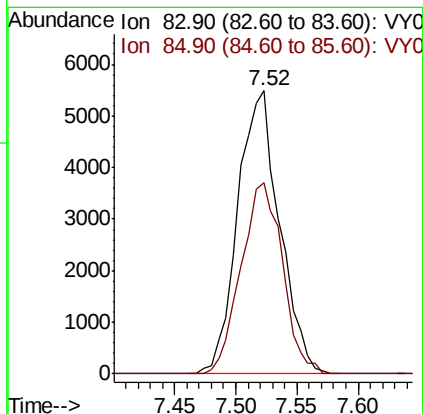
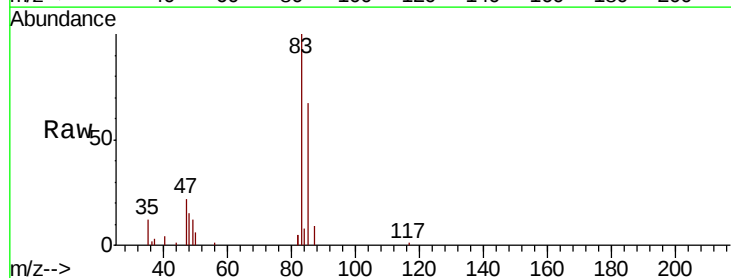
Delta R.T. -0.00 min

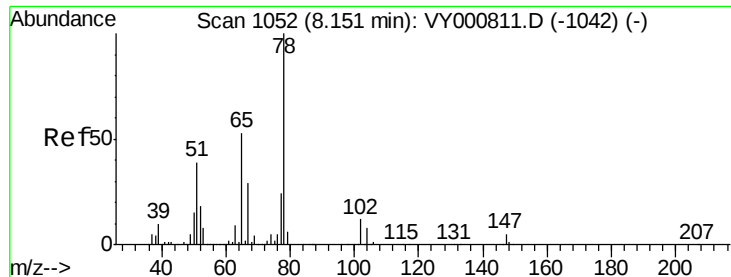
Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Tgt Ion: 83 Resp: 13040

Ion	Ratio	Lower	Upper
83	100		
85	67.3	50.4	75.6

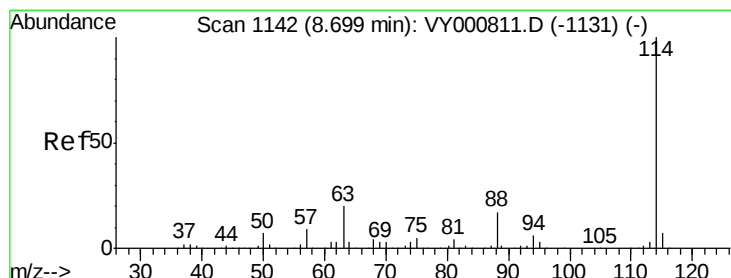
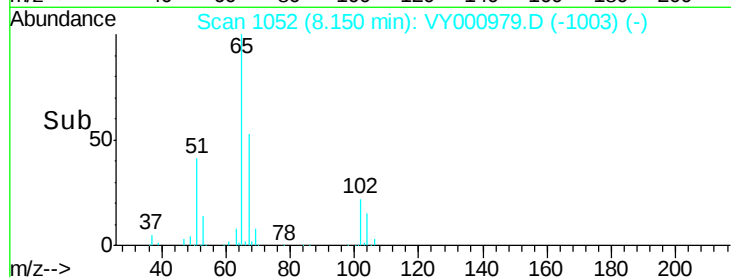
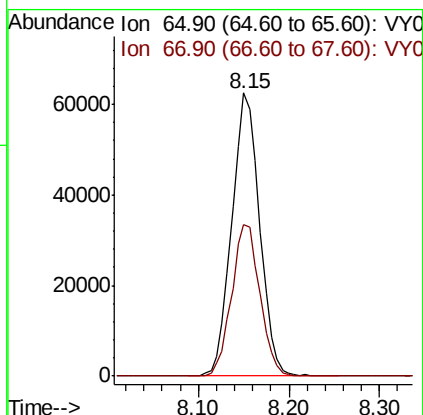
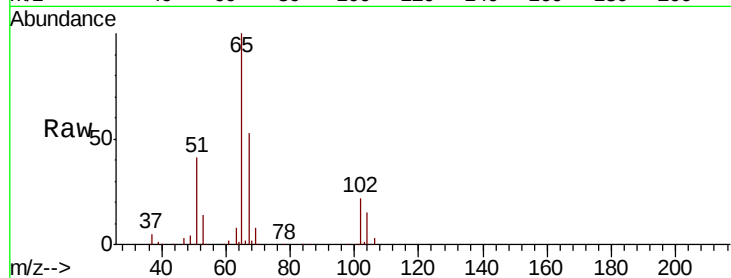




#33
 1,2-Dichloroethane-d4
 Concen: 55.645 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. -0.00 min
 Lab File: VY000979.D
 Acq: 17 Dec 2019 15:27

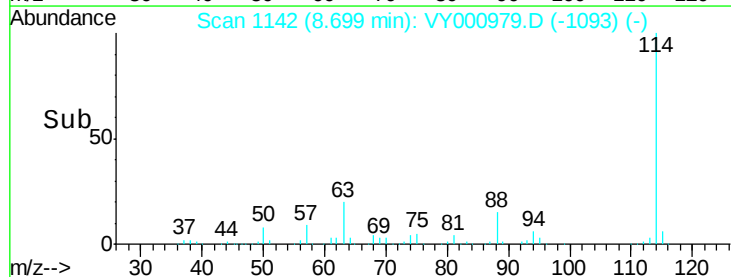
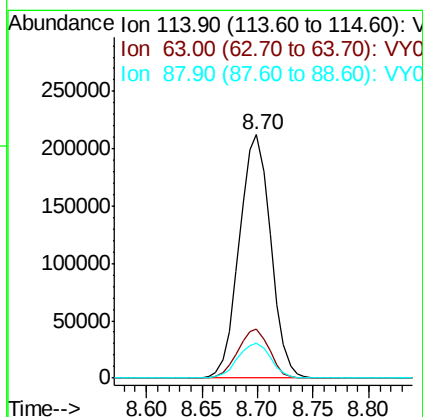
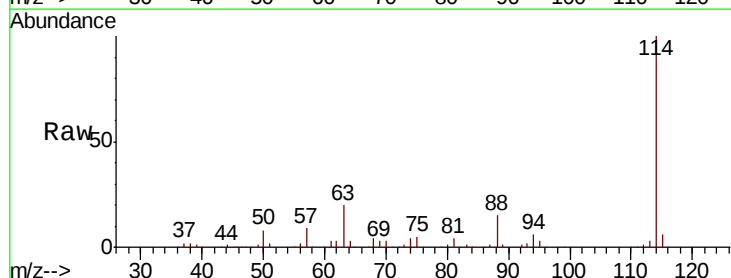
Instrument :
 MSVOA_Y
 ClientSampleId :
 RO-1-3

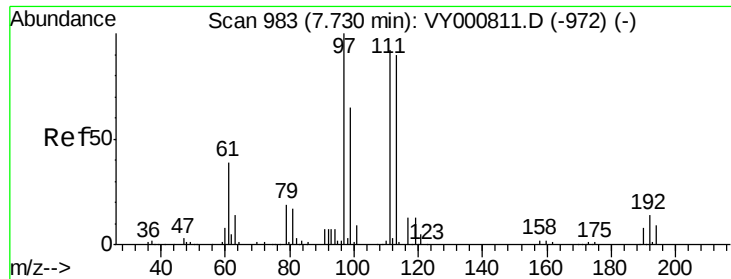
Tgt Ion: 65 Resp: 132622
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VY000979.D
 Acq: 17 Dec 2019 15:27

Tgt Ion: 114 Resp: 416602
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.8
 88 14.6 0.0 33.2

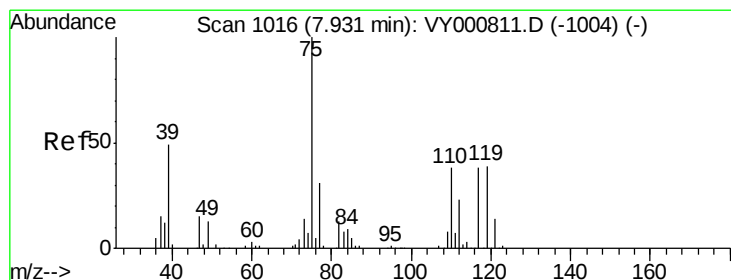
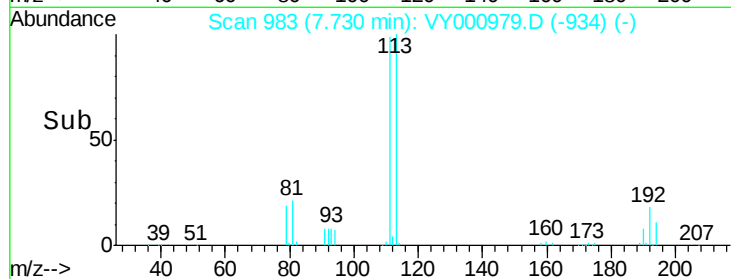
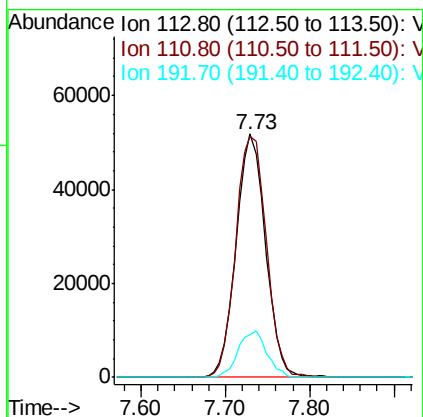
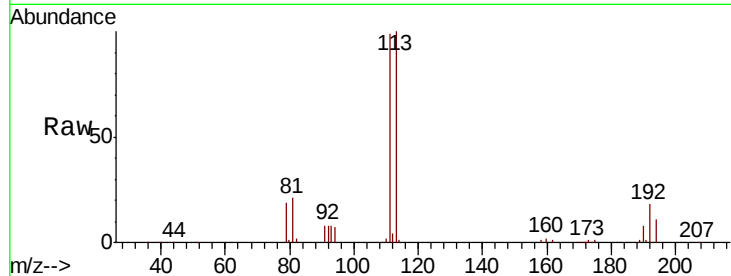




#35
Dibromofluoromethane
Concen: 50.178 ug/l
RT: 7.73 min Scan# 983
Delta R.T. -0.00 min
Lab File: VY000979.D
Acq: 17 Dec 2019 15:27

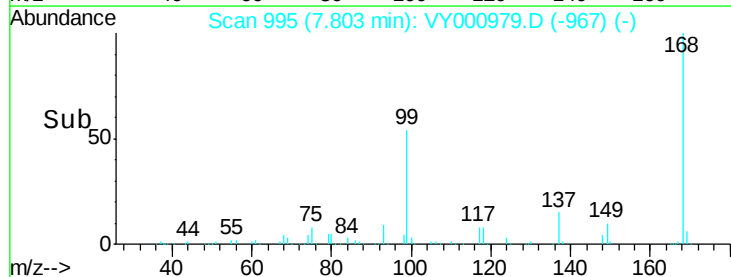
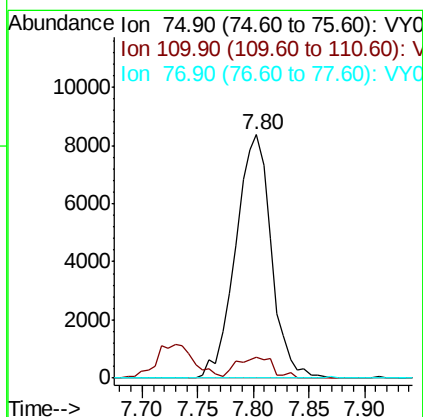
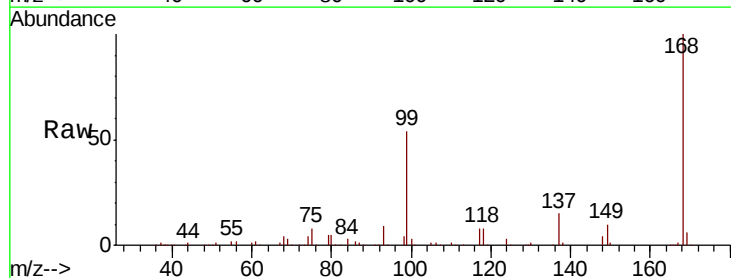
Instrument :
MSVOA_Y
ClientSampleId :
RO-1-3

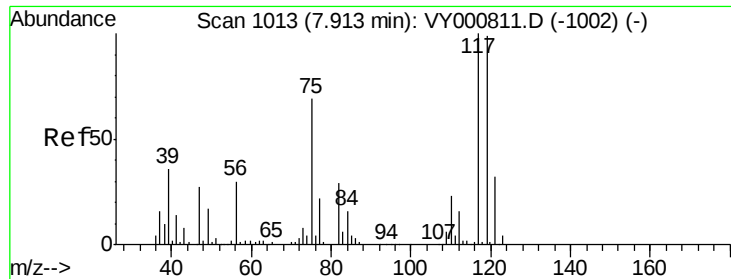
Tgt Ion:113 Resp: 121831
Ion Ratio Lower Upper
113 100
111 103.1 82.4 123.6
192 18.4 14.2 21.2



#36
1,1-Dichloropropene
Concen: 4.477 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.13 min
Lab File: VY000979.D
Acq: 17 Dec 2019 15:27

Tgt Ion: 75 Resp: 18547
Ion Ratio Lower Upper
75 100
110 8.9 17.9 53.7#
77 0.0 24.7 37.1#

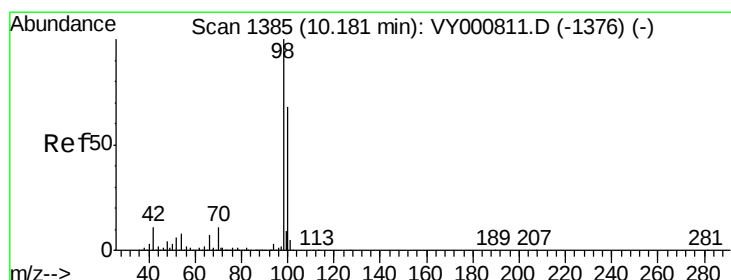
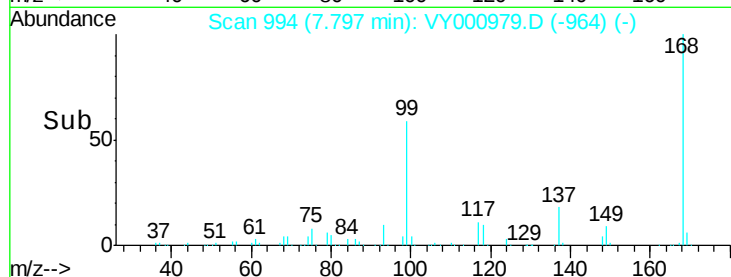
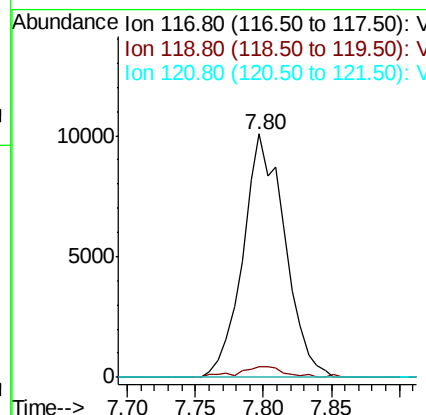
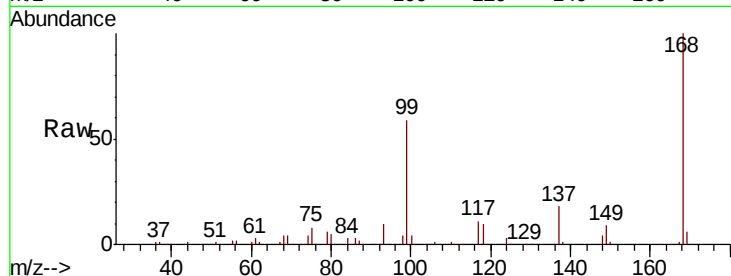




#38
Carbon Tetrachloride
Concen: 5.872 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY000979.D
Acq: 17 Dec 2019 15:27

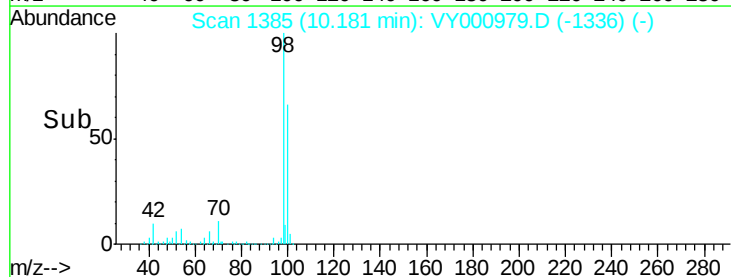
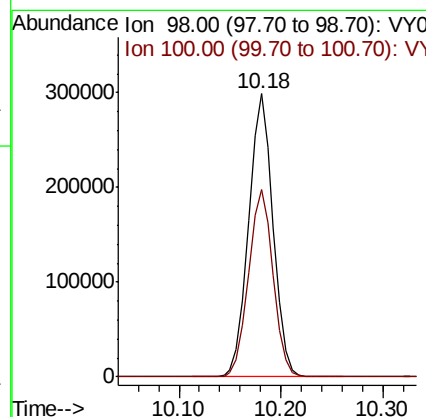
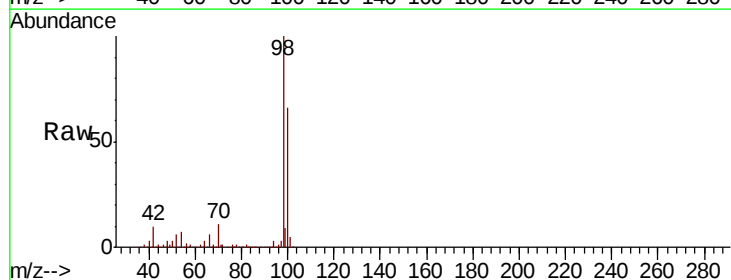
Instrument :
MSVOA_Y
ClientSampled :
RO-1-3

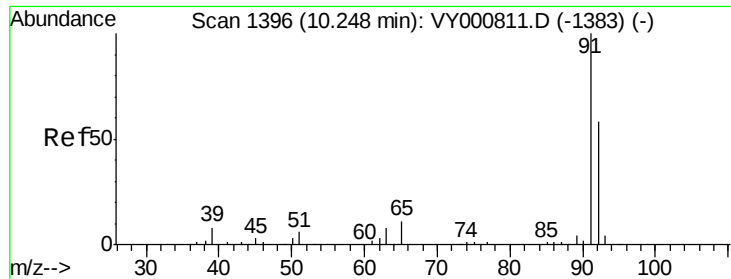
Tgt Ion: 117 Resp: 21660
Ion Ratio Lower Upper
117 100
119 4.4 79.3 118.9#
121 0.0 25.5 38.3#



#50
Toluene-d8
Concen: 51.050 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY000979.D
Acq: 17 Dec 2019 15:27

Tgt Ion: 98 Resp: 495531
Ion Ratio Lower Upper
98 100
100 66.6 53.1 79.7





#52

Toluene

Concen: 3.159 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. -0.01 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :

MSVOA_Y

ClientSampleId :

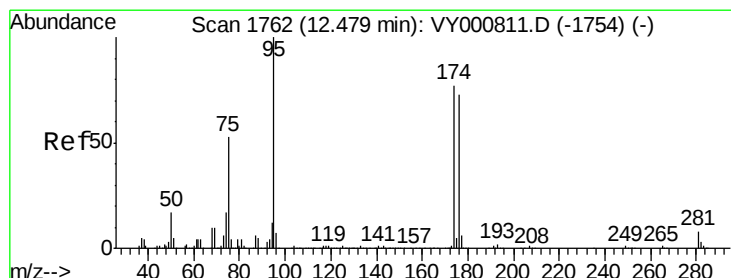
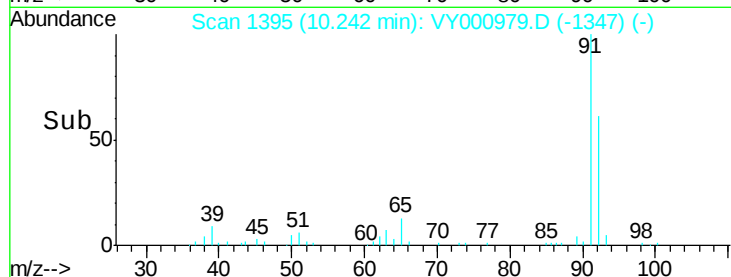
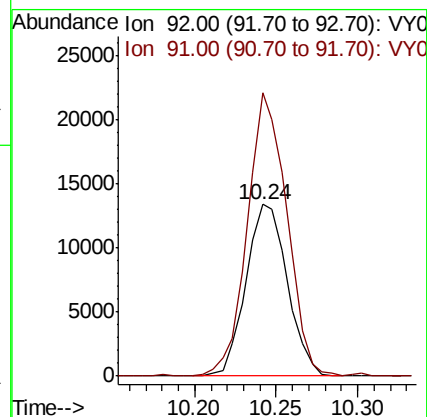
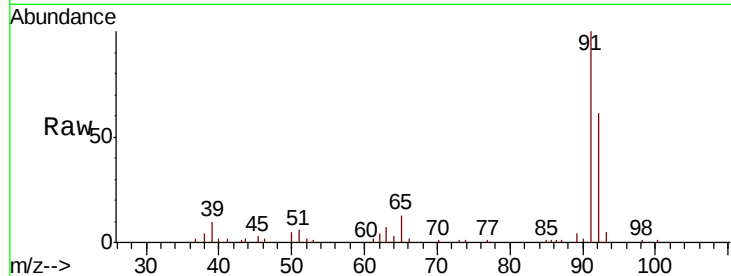
RO-1-3

Tgt Ion: 92 Resp: 23601

Ion Ratio Lower Upper

92 100

91 157.7 136.6 204.8



#62

4-Bromofluorobenzene

Concen: 45.157 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

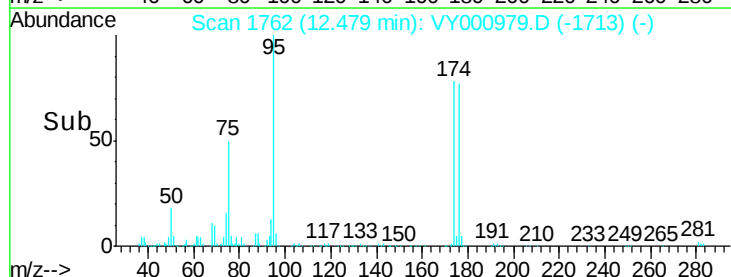
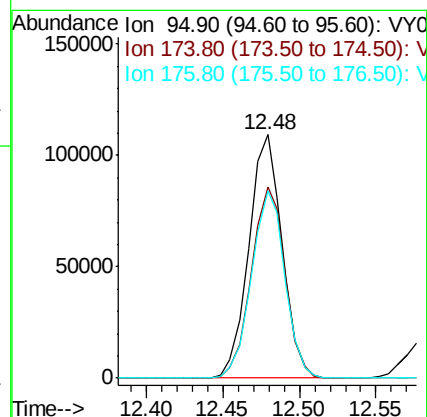
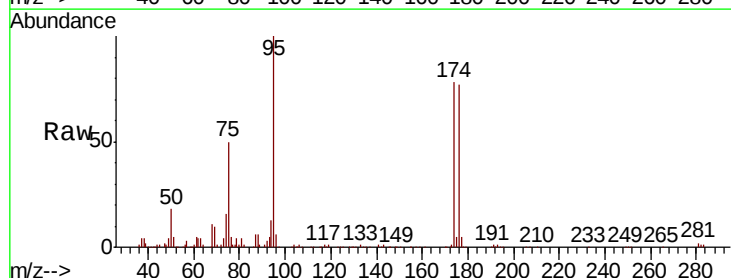
Tgt Ion: 95 Resp: 164615

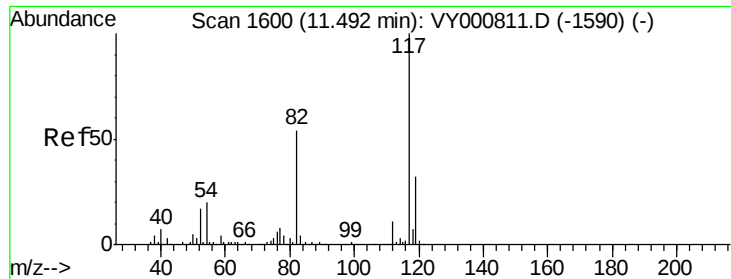
Ion Ratio Lower Upper

95 100

174 79.4 0.0 150.6

176 77.4 0.0 145.2

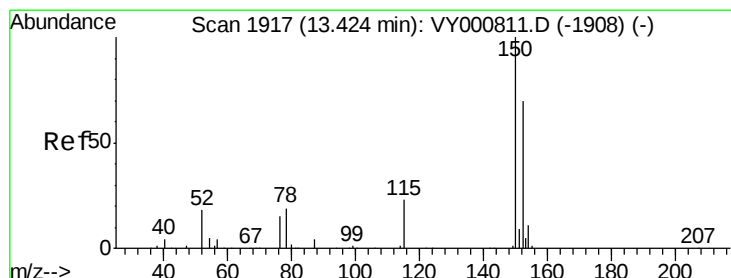
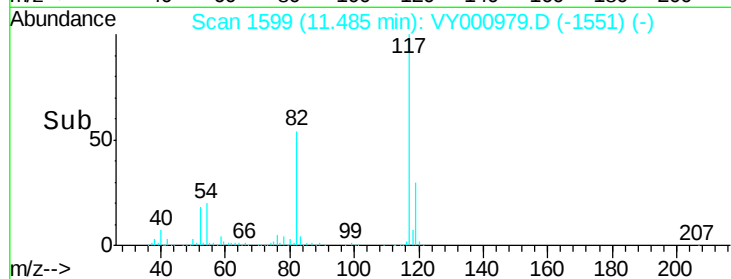
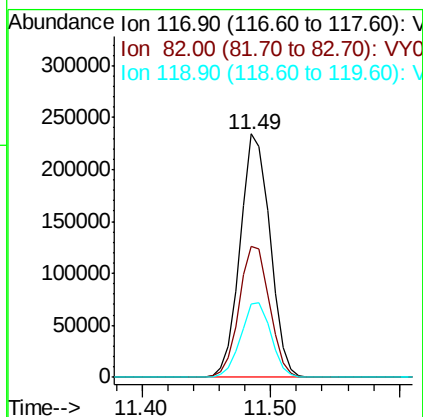
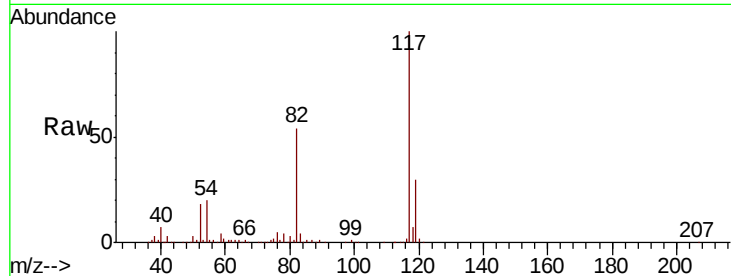




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000979.D
Acq: 17 Dec 2019 15:27

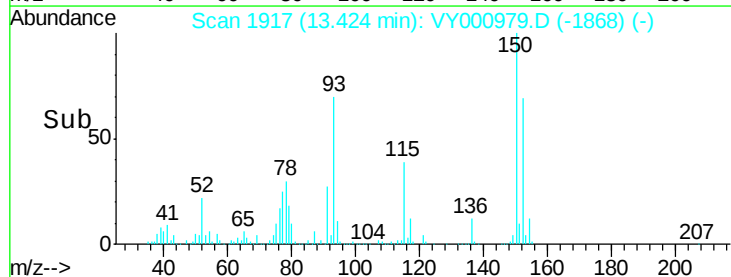
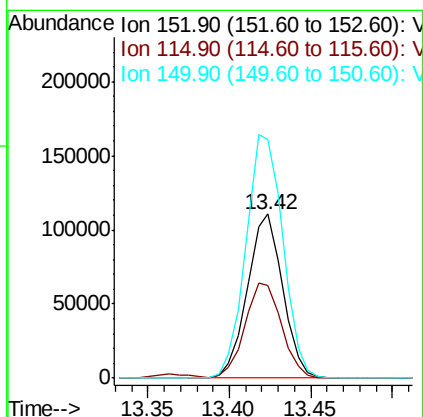
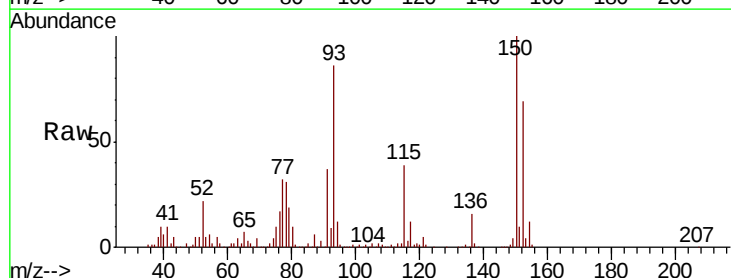
Instrument :
MSVOA_Y
ClientSampled :
RO-1-3

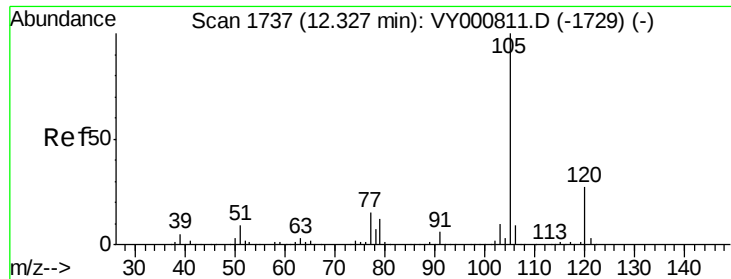
Tgt Ion:117 Resp: 376151
Ion Ratio Lower Upper
117 100
82 53.9 43.1 64.7
119 30.4 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY000979.D
Acq: 17 Dec 2019 15:27

Tgt Ion:152 Resp: 166834
Ion Ratio Lower Upper
152 100
115 60.4 29.3 87.8
150 155.5 0.0 351.2





#73

Isopropylbenzene

Concen: 15.699 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. 0.01 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :

MSVOA_Y

ClientSampled :

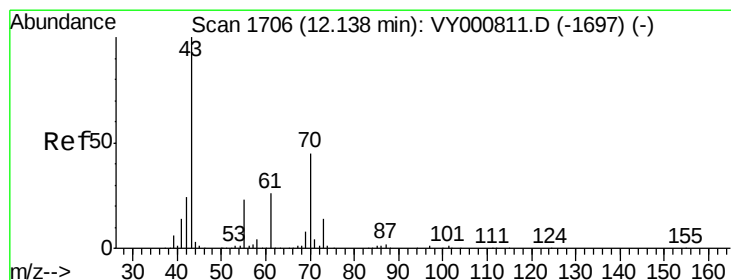
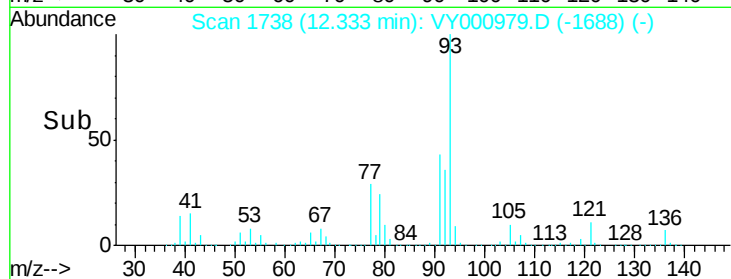
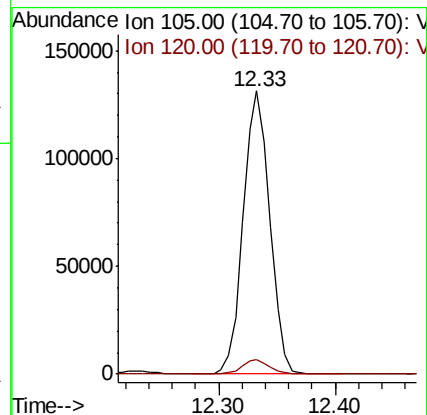
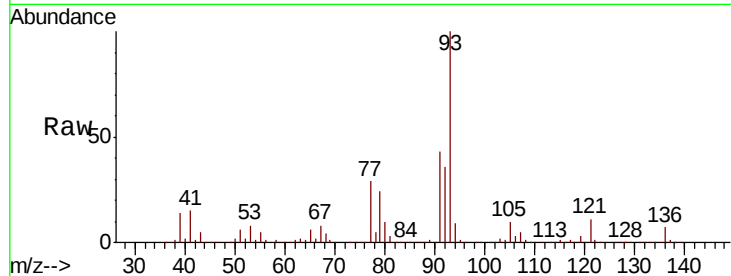
RO-1-3

Tgt Ion: 105 Resp: 208547

Ion Ratio Lower Upper

105 100

120 5.1 13.4 40.2#



#74

N-ethyl acetate

Concen: 30.624 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. 0.19 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Tgt Ion: 43 Resp: 113226

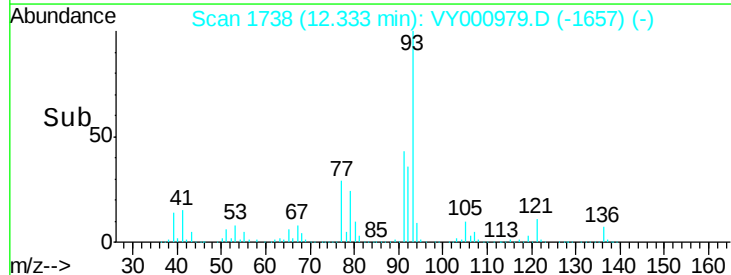
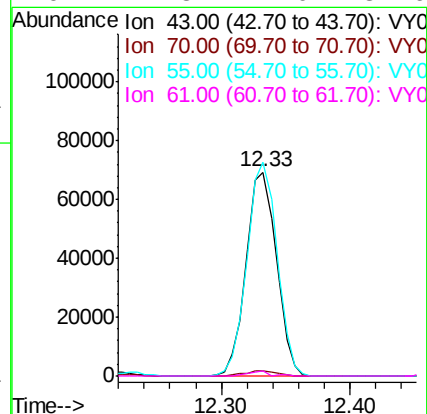
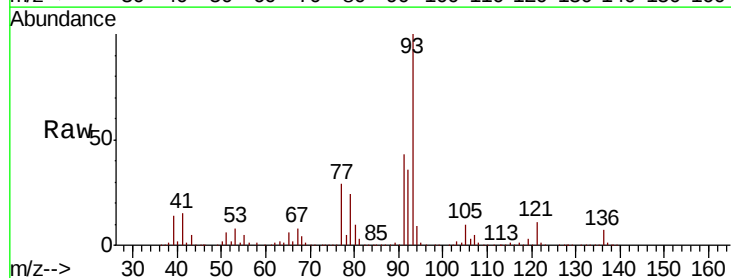
Ion Ratio Lower Upper

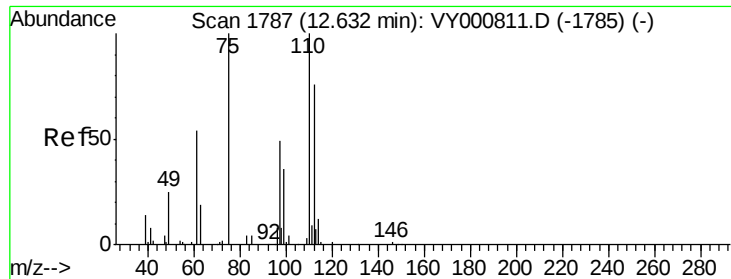
43 100

70 2.5 36.6 54.8#

55 103.7 18.8 28.2#

61 1.8 21.0 31.6#

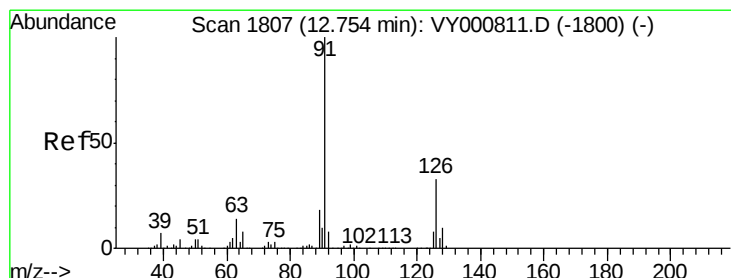
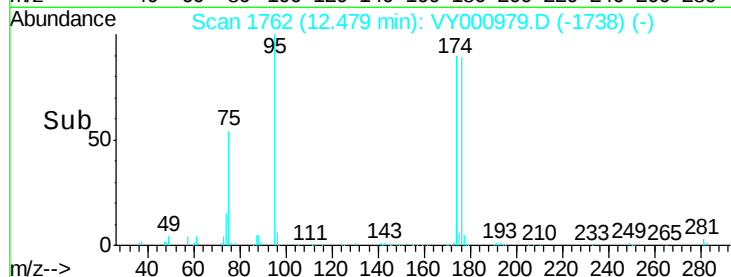
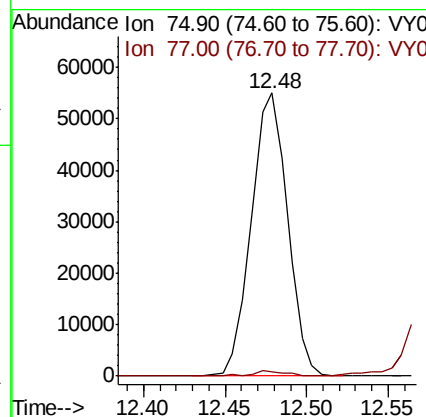
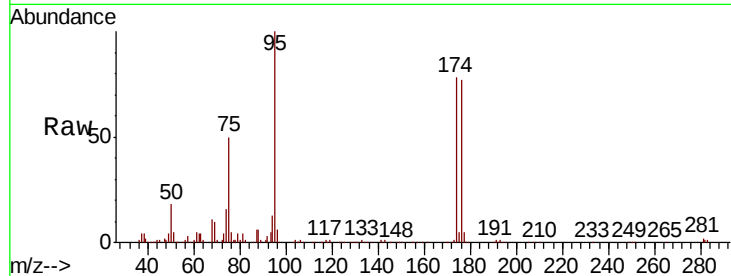




#76
 1,2,3-Trichloropropane
 Concen: 45.162 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.15 min
 Lab File: VY000979.D
 Acq: 17 Dec 2019 15:27

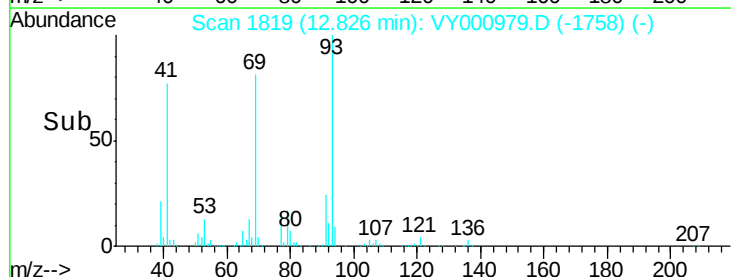
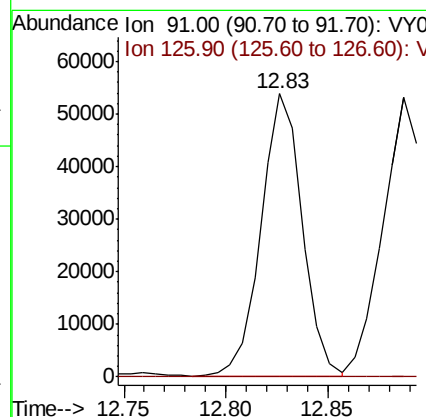
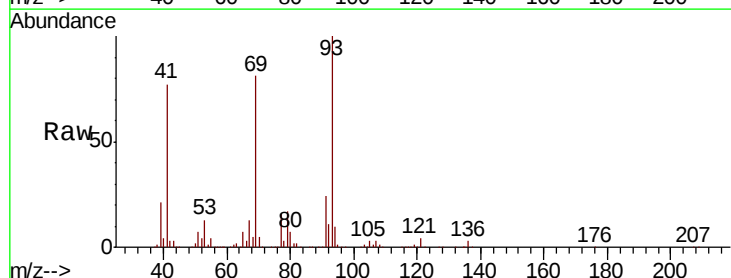
Instrument :
 MSVOA_Y
 ClientSampleId :
 RO-1-3

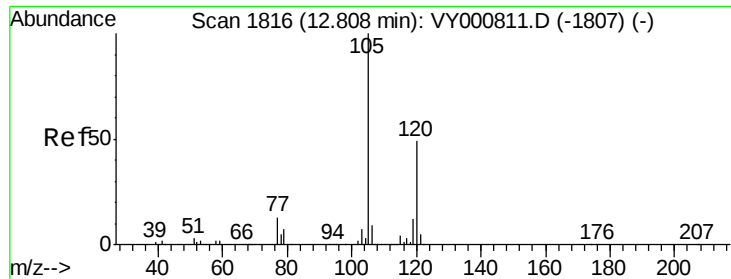
Tgt Ion: 75 Resp: 85365
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#79
 2-Chlorotoluene
 Concen: 8.463 ug/l
 RT: 12.83 min Scan# 1819
 Delta R.T. 0.07 min
 Lab File: VY000979.D
 Acq: 17 Dec 2019 15:27

Tgt Ion: 91 Resp: 75832
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.0 51.0#

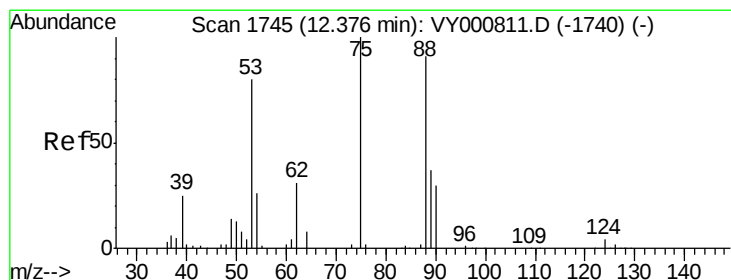
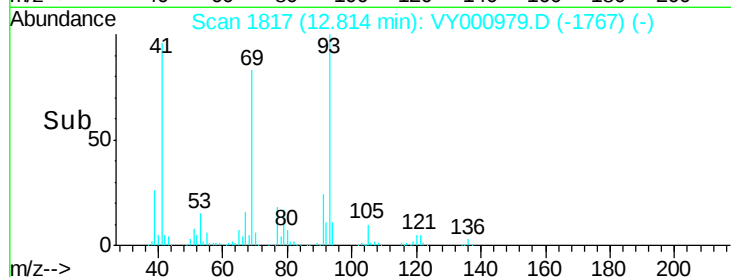
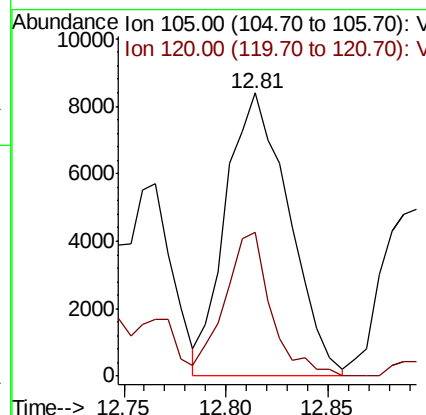
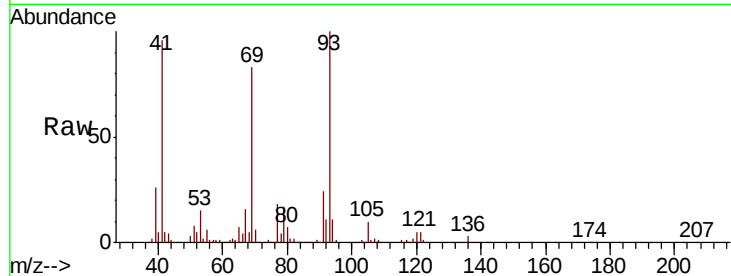




#80
 1,3,5-Trimethylbenzene
 Concen: 1.639 ug/l
 RT: 12.81 min Scan# 1817
 Delta R.T. 0.01 min
 Lab File: VY000979.D
 Acq: 17 Dec 2019 15:27

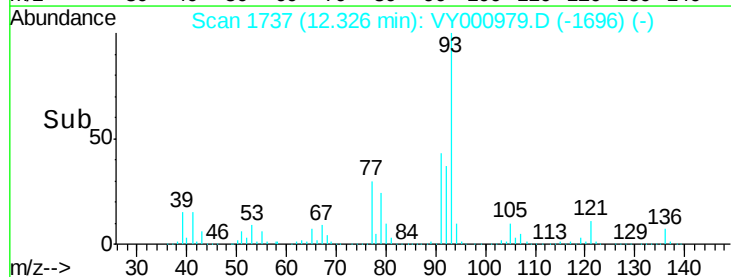
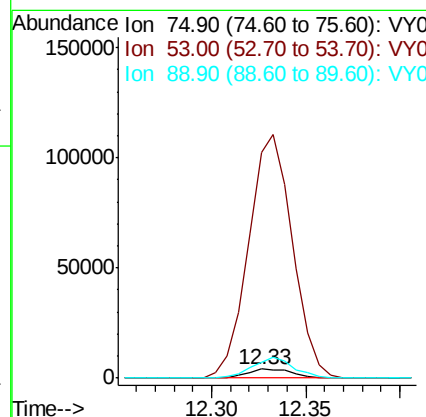
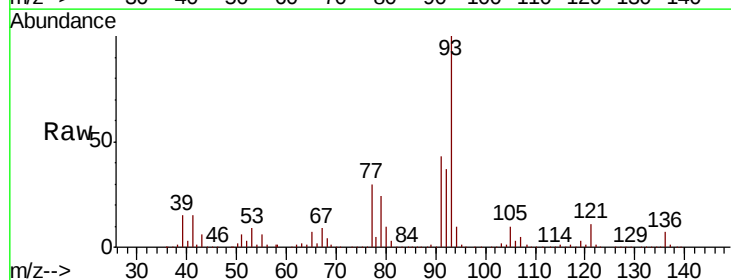
Instrument :
 MSVOA_Y
 ClientSampleId :
 RO-1-3

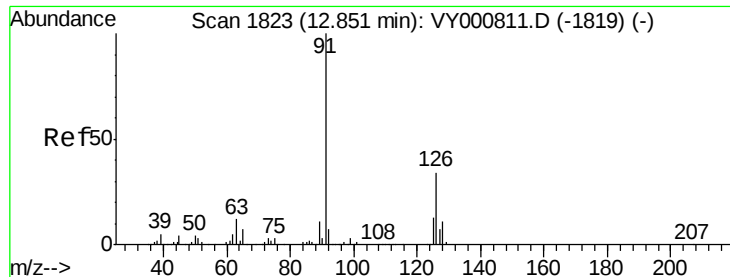
Tgt Ion: 105 Resp: 18028
 Ion Ratio Lower Upper
 105 100
 120 37.1 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 7.069 ug/l
 RT: 12.33 min Scan# 1737
 Delta R.T. -0.05 min
 Lab File: VY000979.D
 Acq: 17 Dec 2019 15:27

Tgt Ion: 75 Resp: 6802
 Ion Ratio Lower Upper
 75 100
 53 2620.1 64.6 96.8#
 89 209.0 33.6 50.4#





#82

4-Chlorotoluene

Concen: 8.153 ug/l

RT: 12.83 min Scan# 1819

Delta R.T. -0.02 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :

MSVOA_Y

ClientSampleId :

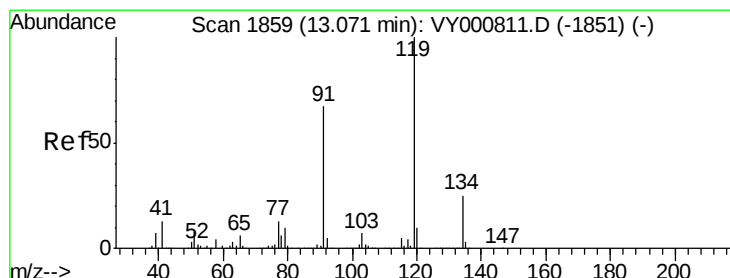
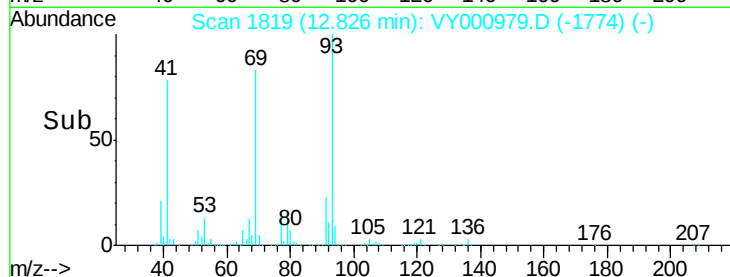
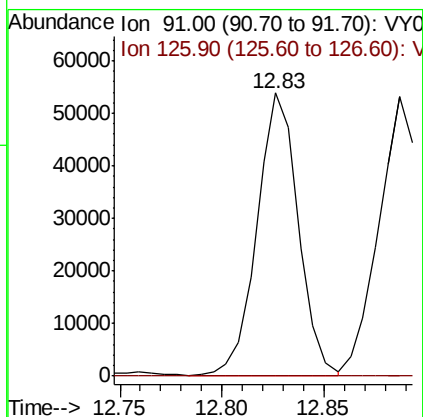
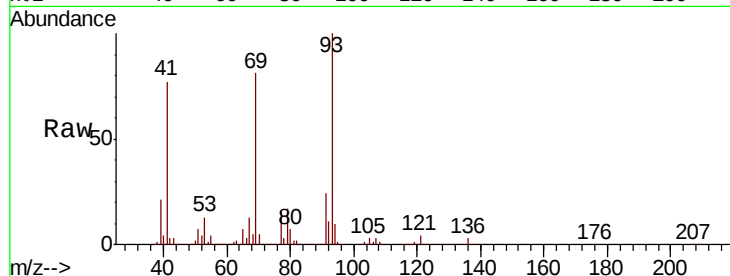
RO-1-3

Tgt Ion: 91 Resp: 75263

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.9#



#83

tert-Butylbenzene

Concen: 1.420 ug/l

RT: 13.11 min Scan# 1866

Delta R.T. 0.04 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

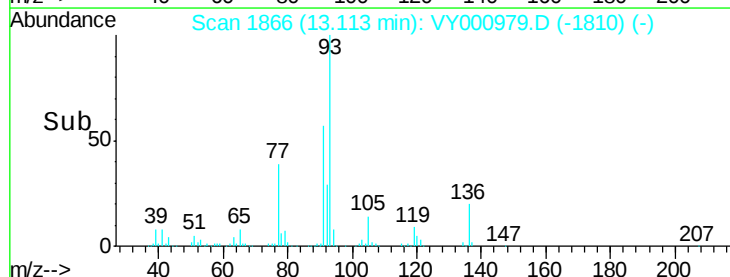
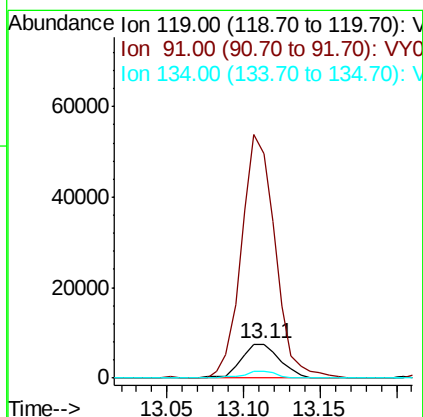
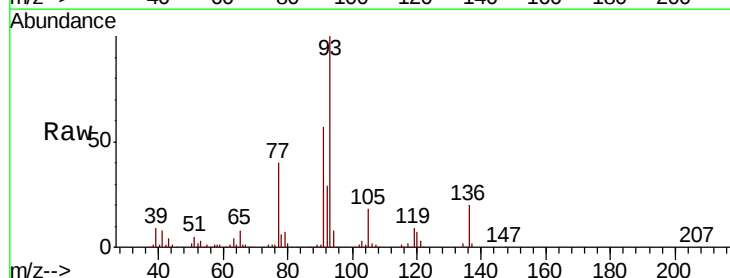
Tgt Ion: 119 Resp: 13135

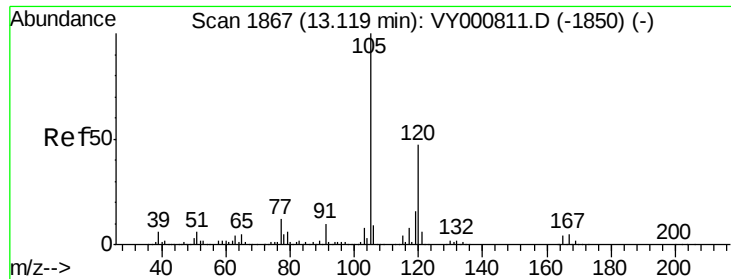
Ion Ratio Lower Upper

119 100

91 628.6 32.3 96.8#

134 17.3 12.9 38.7





#84

1,2,4-Trimethylbenzene

Concen: 2.352 ug/l

RT: 13.11 min Scan# 1866

Delta R.T. -0.01 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :

MSVOA_Y

ClientSampled :

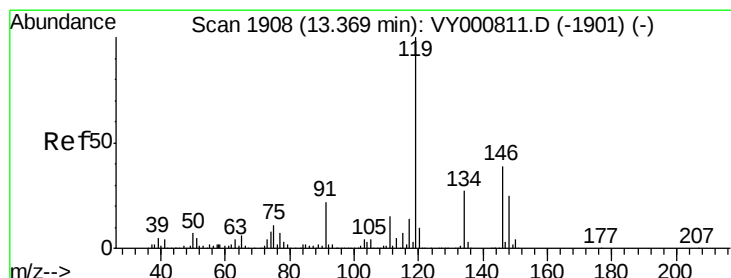
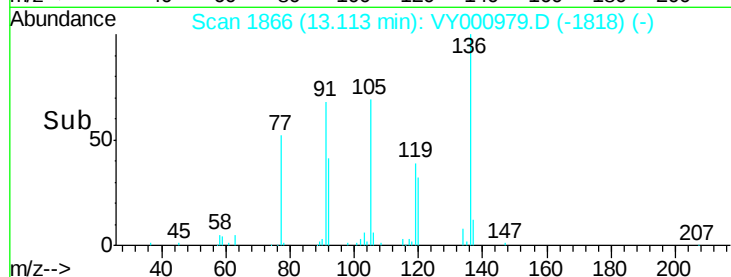
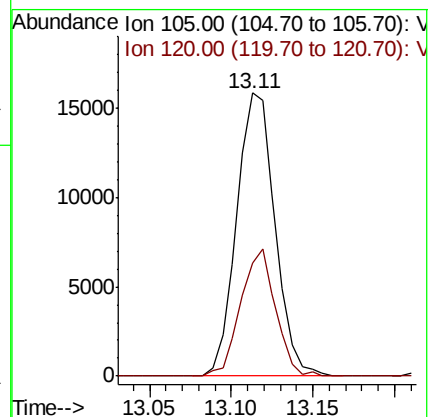
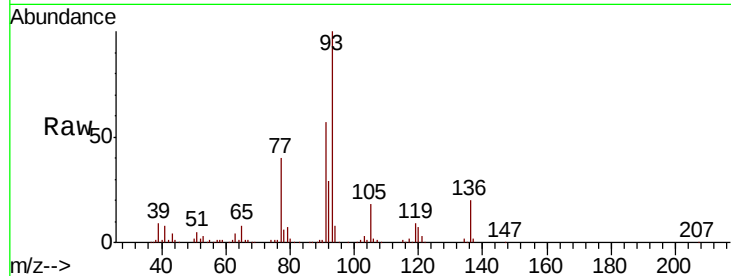
RO-1-3

Tgt Ion:105 Resp: 25880

Ion Ratio Lower Upper

105 100

120 40.8 22.6 67.8



#86

p-Isopropyltoluene

Concen: 5.277 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. -0.01 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

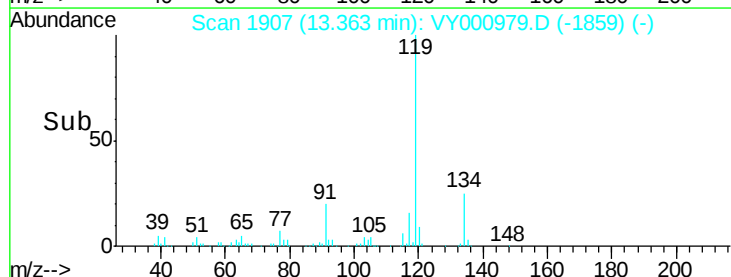
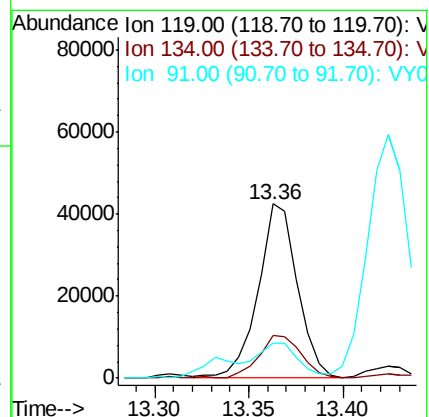
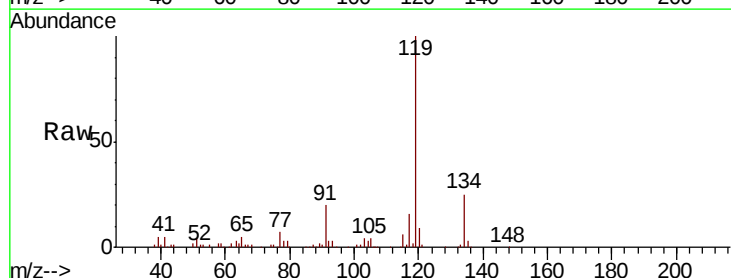
Tgt Ion:119 Resp: 61724

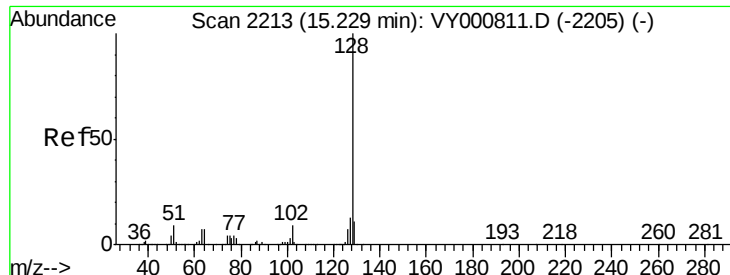
Ion Ratio Lower Upper

119 100

134 26.9 13.5 40.4

91 21.9 11.5 34.5





#95

Naphthalene

Concen: 1.342 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.01 min

Lab File: VY000979.D

Acq: 17 Dec 2019 15:27

Instrument :

MSVOA_Y

ClientSampleId :

RO-1-3

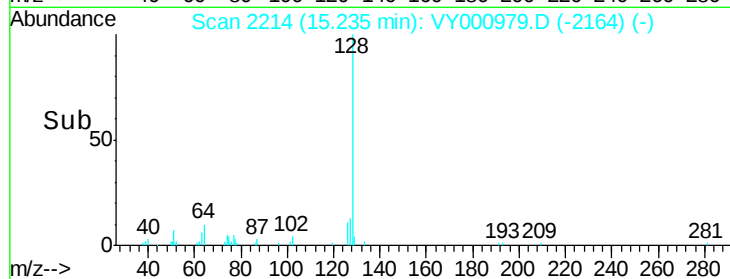
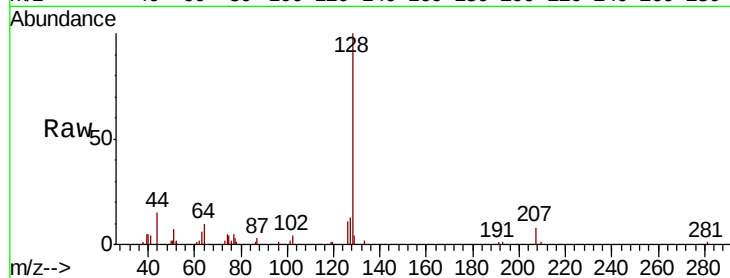
Tgt Ion:128 Resp: 10711

Ion Ratio Lower Upper

128 100

127 13.4 10.1 15.1

129 10.6 8.8 13.2



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

