

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061378.D
 Acq On : 11 Jan 2019 20:01
 Operator : VA/AP
 Sample : K1075-18RE
 Misc : 4.73g/5mL/MSVOA-F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BASIN-9RE

Quant Time: Jan 12 03:35:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	20913	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	30522	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	18576	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.53	152	4079	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	5254	22.57	ug/l	-0.02
Spiked Amount 50.000			Recovery =	45.14%		
35) Dibromofluoromethane	4.09	113	9585	41.04	ug/l	-0.02
Spiked Amount 50.000			Recovery =	82.08%		
50) Toluene-d8	7.53	98	28763	41.62	ug/l	-0.03
Spiked Amount 50.000			Recovery =	83.24%		
62) 4-Bromofluorobenzene	11.39	95	5994	19.86	ug/l	-0.02
Spiked Amount 50.000			Recovery =	39.72%		

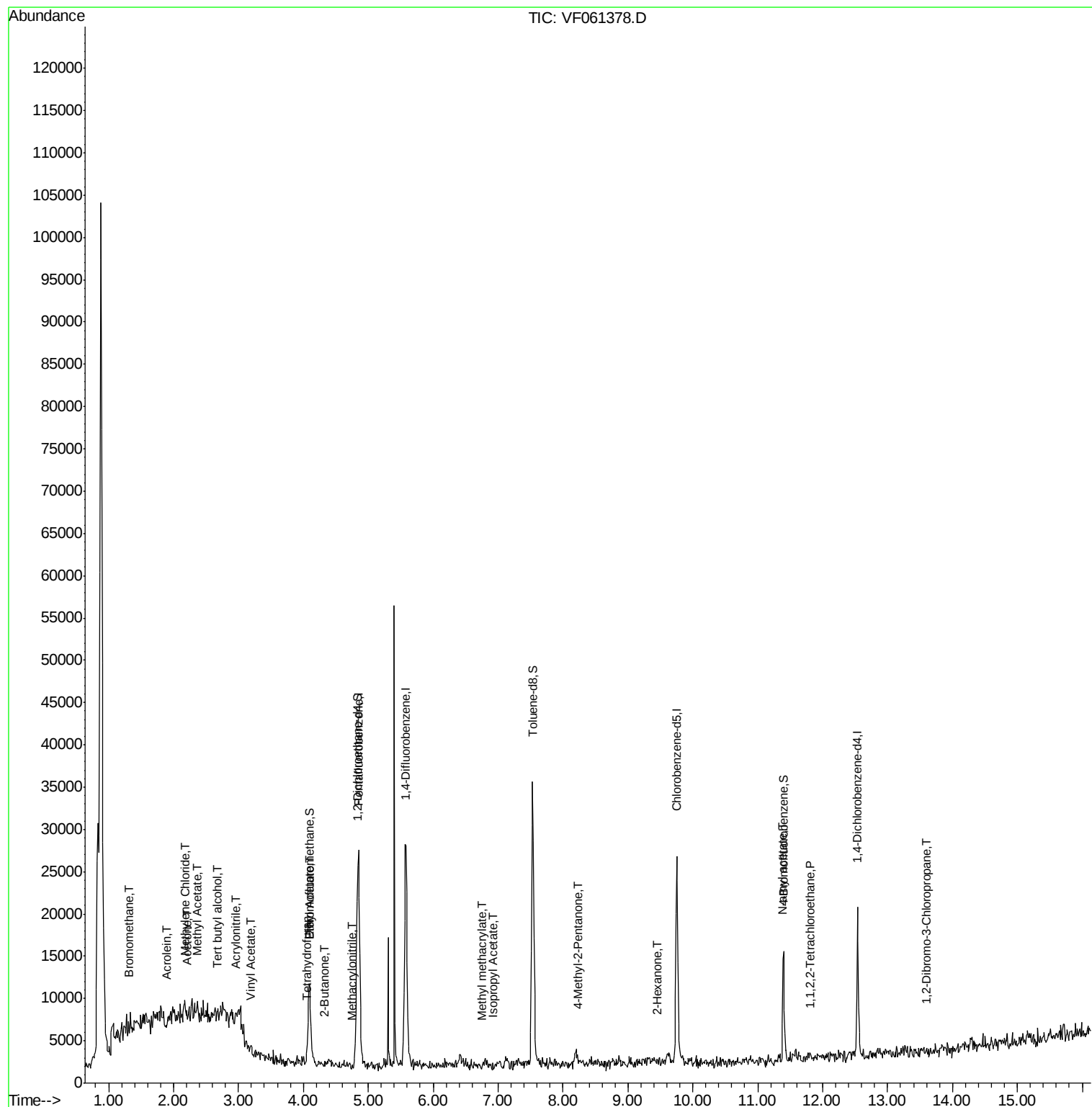
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.31	94	195	3.597	ug/l #	6
11) Tert butyl alcohol	2.66	59	88	9.442	ug/l #	58
13) Acrolein	1.89	56	387	18.567	ug/l	98
15) Acrylonitrile	2.97	53	377	11.411	ug/l #	12
16) Acetone	2.21	43	234	4.321	ug/l #	55
18) Methyl Acetate	2.37	43	1149	10.785	ug/l #	65
20) Methylene Chloride	2.18	84	984	4.295	ug/l	84
23) Vinyl Acetate	3.18	43	406	1.786	ug/l #	77
25) 2-Butanone	4.32	43	384	4.406	ug/l #	56
29) Tetrahydrofuran	4.05	42	81	2.223	ug/l #	36
37) Ethyl Acetate	4.09	43	310	2.388	ug/l #	1
41) Methacrylonitrile	4.74	41	110	1.518	ug/l #	24
43) Isopropyl Acetate	6.93	43	281	1.640	ug/l #	45
48) Methyl methacrylate	6.74	41	208	1.870	ug/l #	21
51) 4-Methyl-2-Pentanone	8.22	43	375	2.899	ug/l #	38
59) 2-Hexanone	9.45	43	127	1.386	ug/l #	27
74) N-amyl acetate	11.38	43	443	5.429	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.81	83	84	1.476	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	13.60	75	98	10.192	ug/l #	1

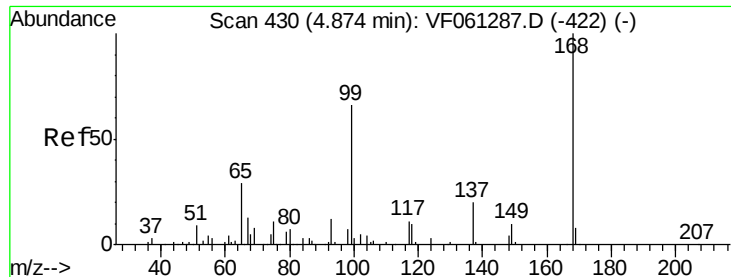
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

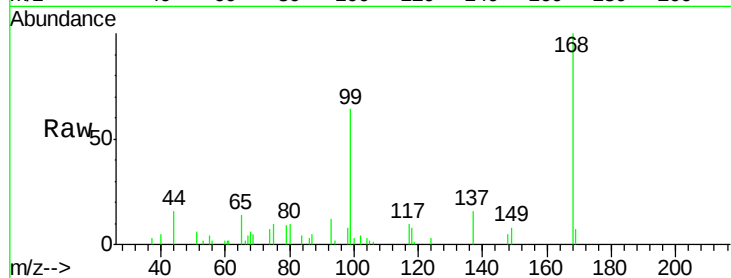
BASIN-9RE

Tot Ion:168 Resp: 20913

Ion Ratio Lower Upper

168 100

99 63.5 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

8000

6000

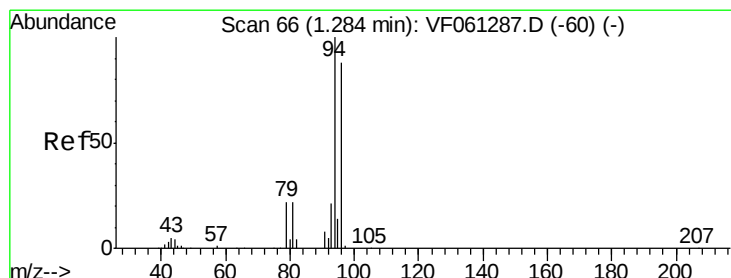
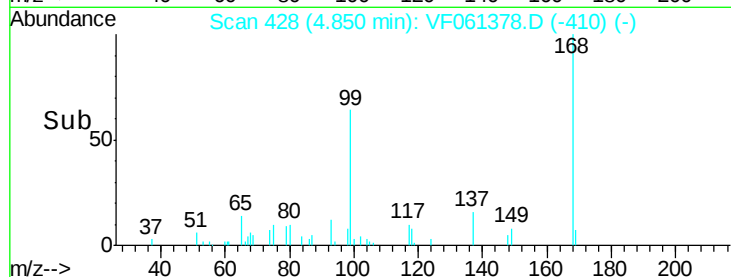
4000

2000

0

Time-->

4.70 4.80 4.90 5.00



#5

Bromomethane

Concen: 3.597 ug/l

RT: 1.31 min Scan# 69

Delta R.T. 0.03 min

Lab File: VF061378.D

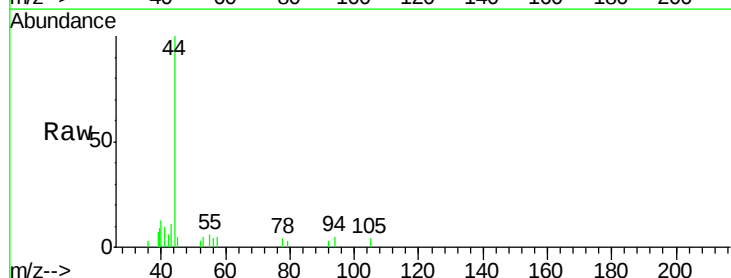
Acq: 11 Jan 2019 20:01

Tgt Ion: 94 Resp: 195

Ion Ratio Lower Upper

94 100

96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.31

200

150

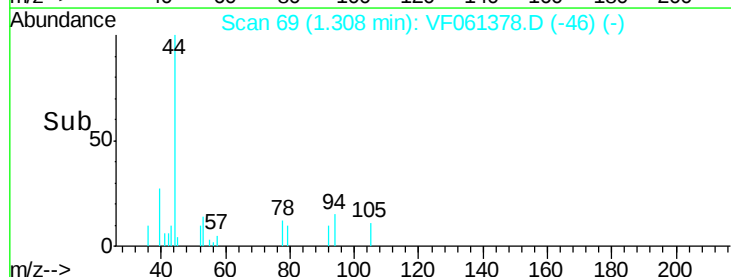
100

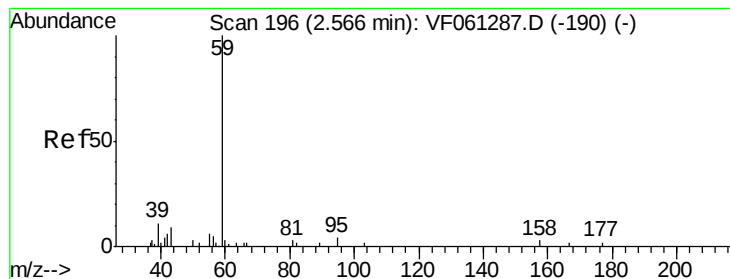
50

0

Time-->

1.28 1.30 1.32



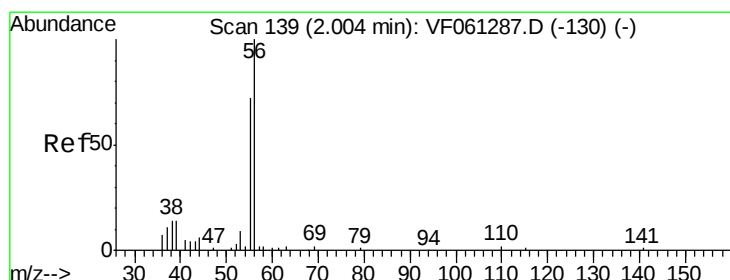
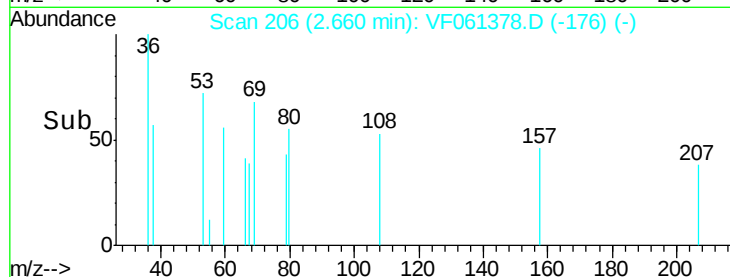
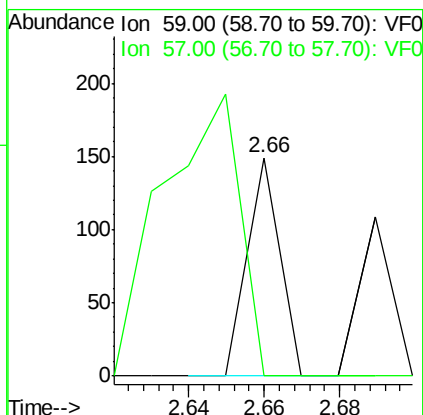
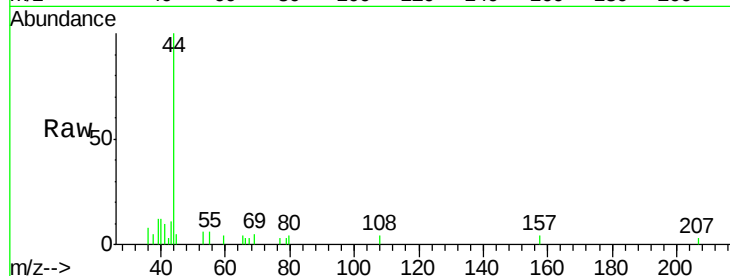


#11

Tert butyl alcohol
 Concen: 9.442 ug/l
 RT: 2.66 min Scan# 206
 Delta R.T. 0.09 min
 Lab File: VF061378.D
 Acq: 11 Jan 2019 20:01

Instrument :
 MSVOA_F
 ClientSampleId :
 BASIN-9RE

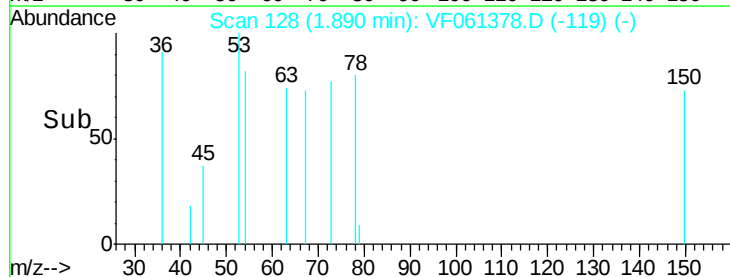
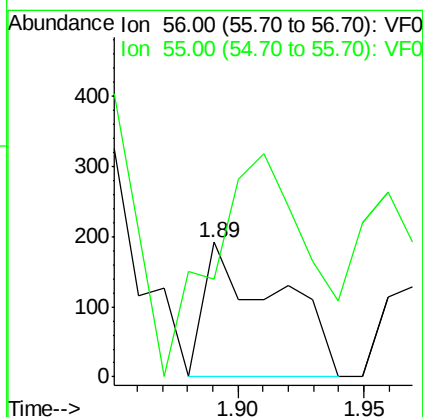
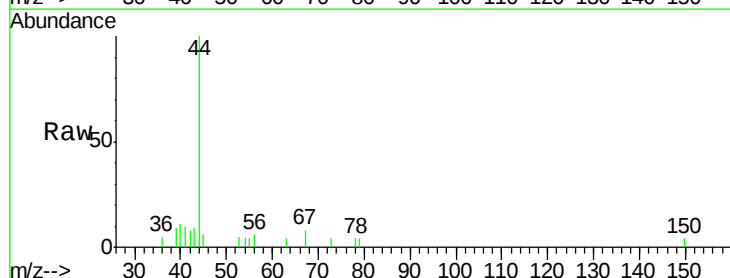
Tot Ion: 59 Resp: 88
 Ion Ratio Lower Upper
 59 100
 57 0.0 15.1 22.7#

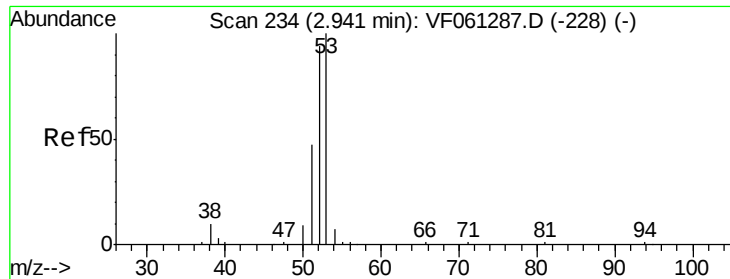


#13

Acrolein
 Concen: 18.567 ug/l
 RT: 1.89 min Scan# 128
 Delta R.T. -0.11 min
 Lab File: VF061378.D
 Acq: 11 Jan 2019 20:01

Tgt Ion: 56 Resp: 387
 Ion Ratio Lower Upper
 56 100
 55 72.9 59.4 89.0





#15

Acrylonitrile

Concen: 11.411 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.02 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampled :

BASIN-9RE

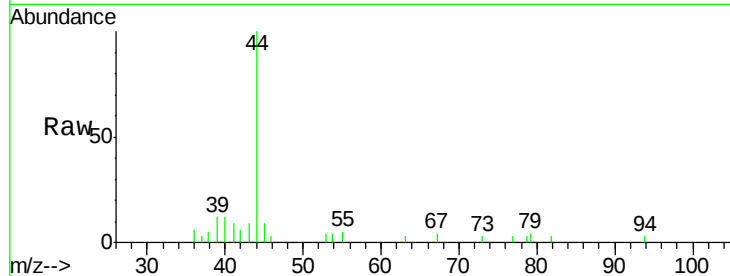
Tot Ion: 53 Resp: 377

Ion Ratio Lower Upper

53 100

52 0.0 74.6 111.8#

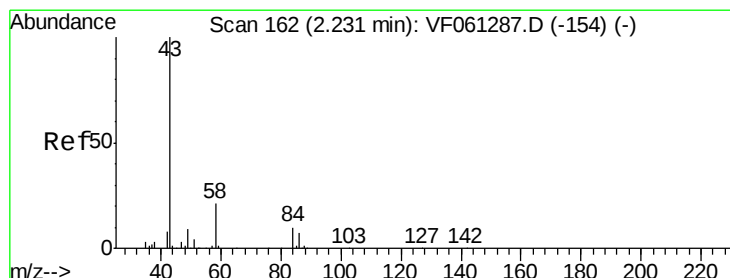
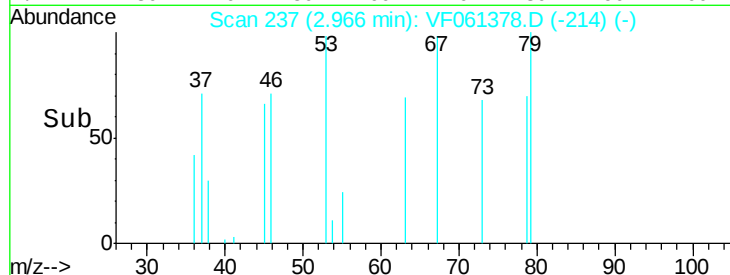
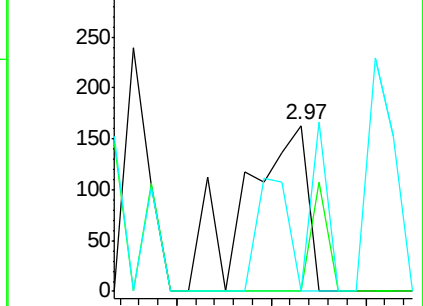
51 0.0 37.8 56.6#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 4.321 ug/l

RT: 2.21 min Scan# 160

Delta R.T. -0.02 min

Lab File: VF061378.D

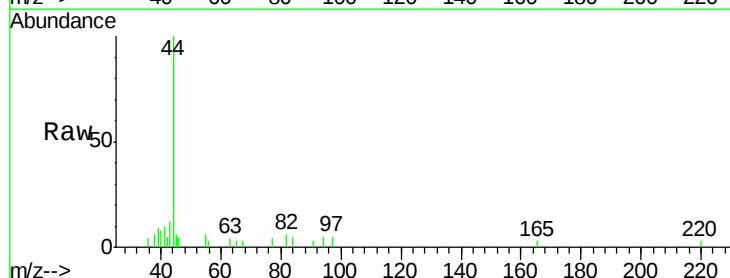
Acq: 11 Jan 2019 20:01

Tgt Ion: 43 Resp: 234

Ion Ratio Lower Upper

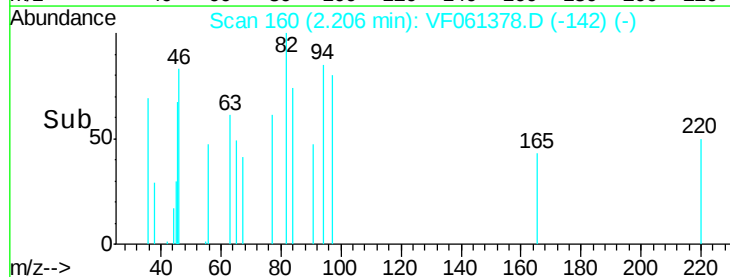
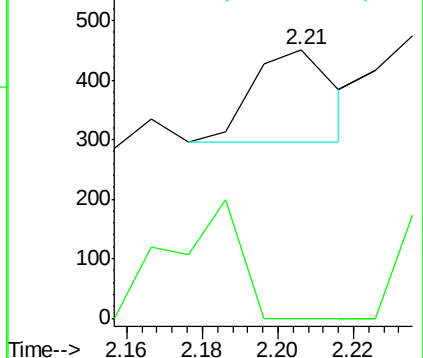
43 100

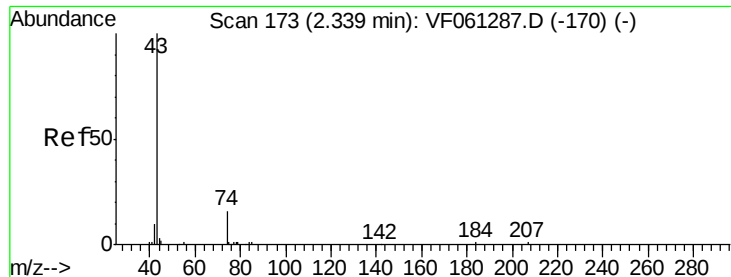
58 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

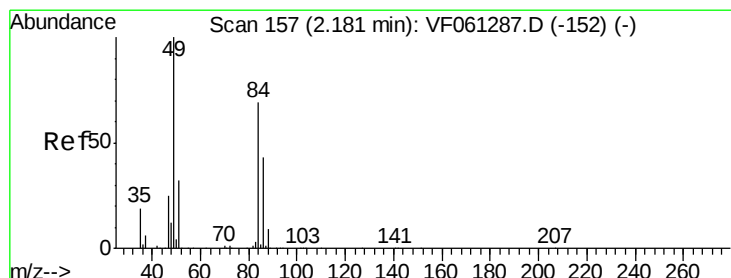
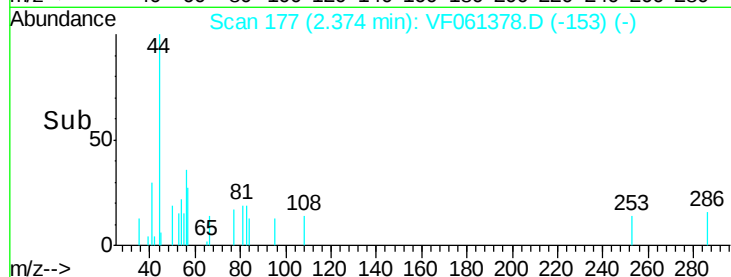
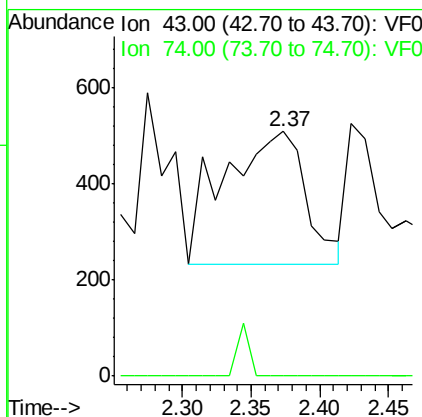
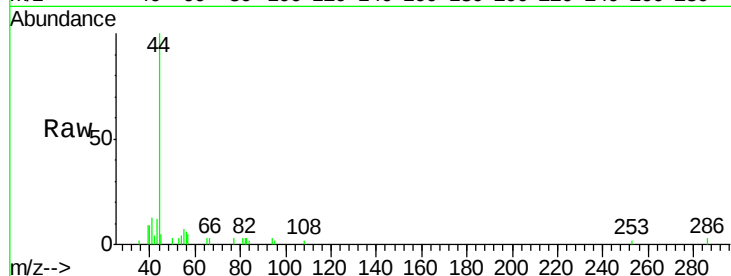




#18
Methyl Acetate
Concen: 10.785 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF061378.D
Acq: 11 Jan 2019 20:01

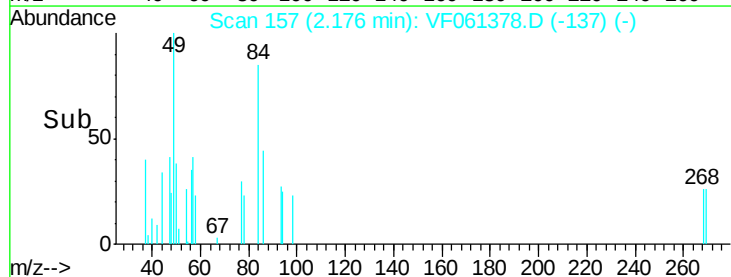
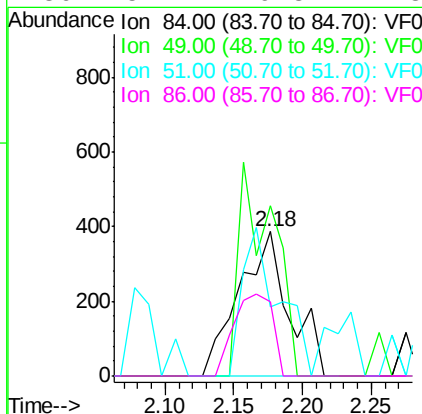
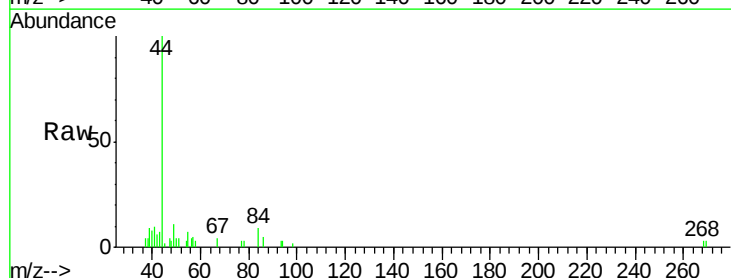
Instrument :
MSVOA_F
ClientSampleId :
BASIN-9RE

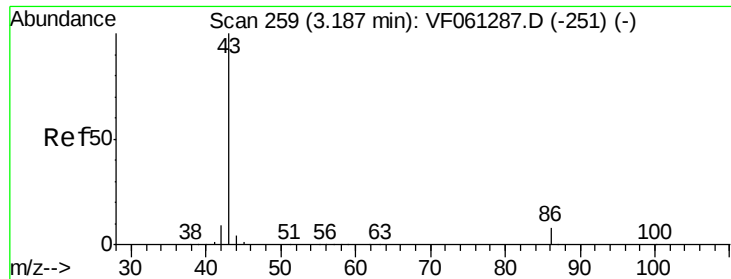
Tot Ion: 43 Resp: 1149
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#



#20
Methylene Chloride
Concen: 4.295 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061378.D
Acq: 11 Jan 2019 20:01

Tgt Ion: 84 Resp: 984
Ion Ratio Lower Upper
84 100
49 118.1 116.6 175.0
51 48.1 37.7 56.5
86 51.4 49.8 74.8





#23

Vinyl Acetate

Concen: 1.786 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

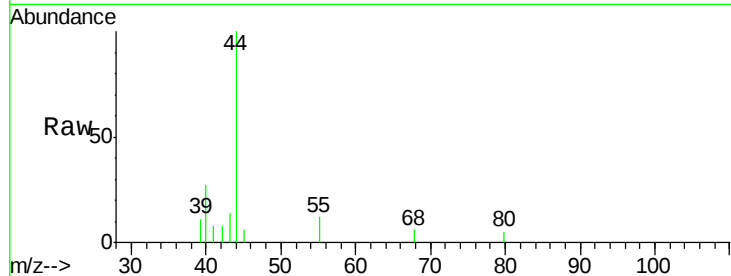
BASIN-9RE

Tot Ion: 43 Resp: 406

Ion Ratio Lower Upper

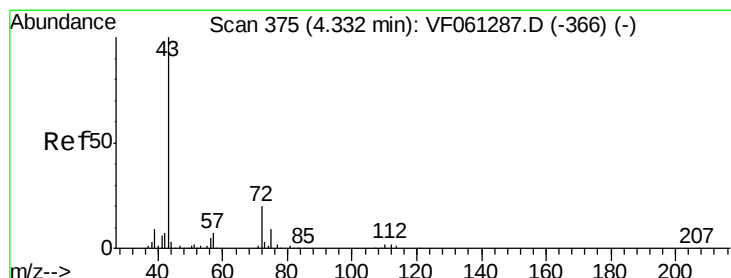
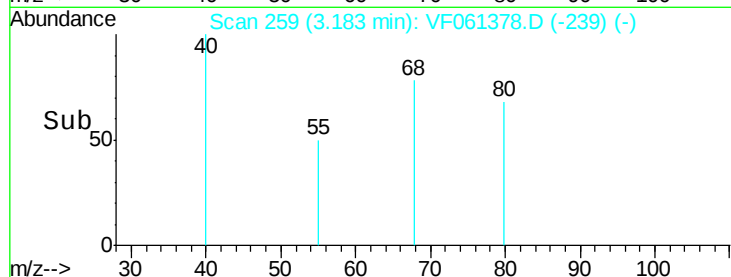
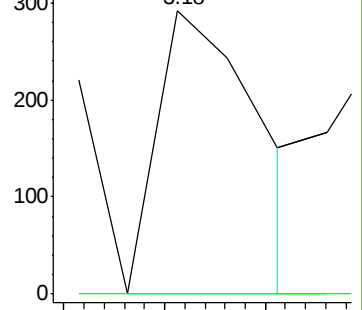
43 100

86 0.0 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 4.406 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF061378.D

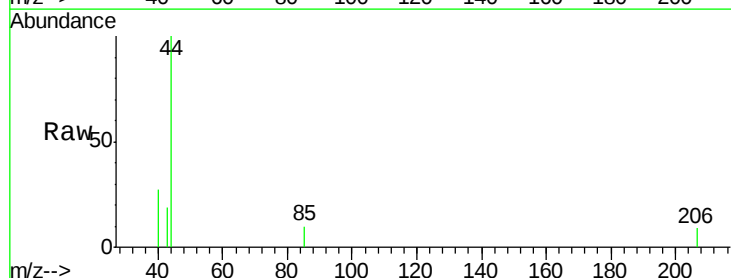
Acq: 11 Jan 2019 20:01

Tgt Ion: 43 Resp: 384

Ion Ratio Lower Upper

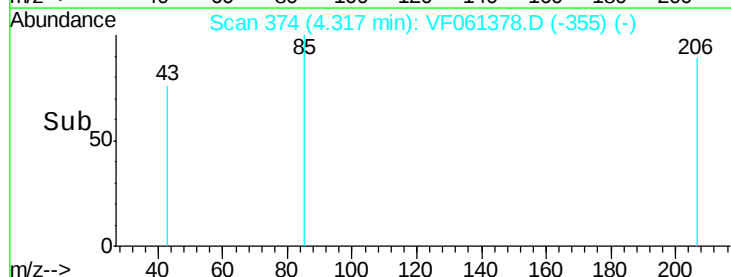
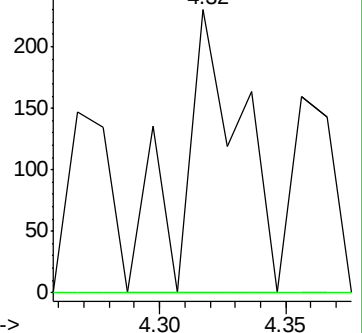
43 100

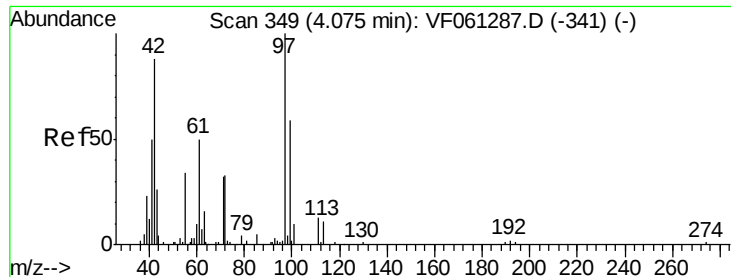
72 0.0 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.223 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.02 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

BASIN-9RE

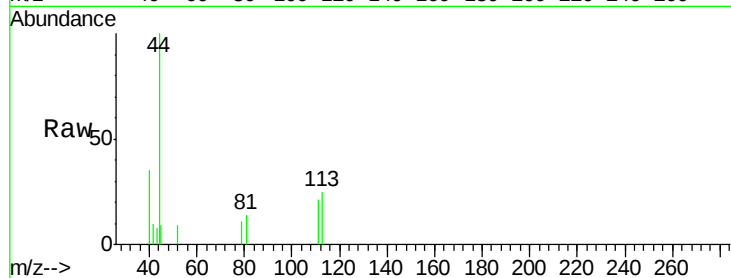
Tot Ion: 42 Resp: 81

Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

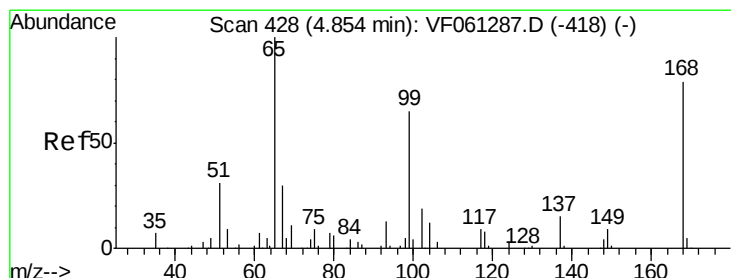
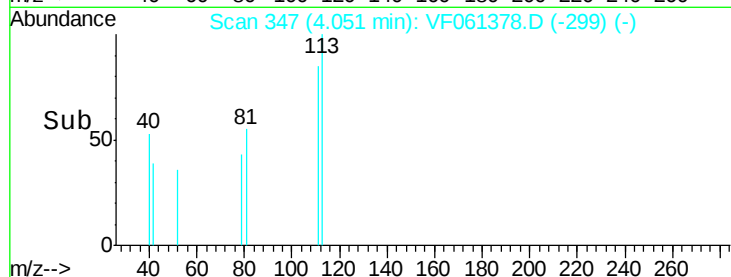
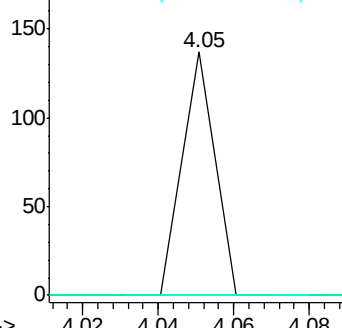
71 0.0 29.5 44.3#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 22.571 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061378.D

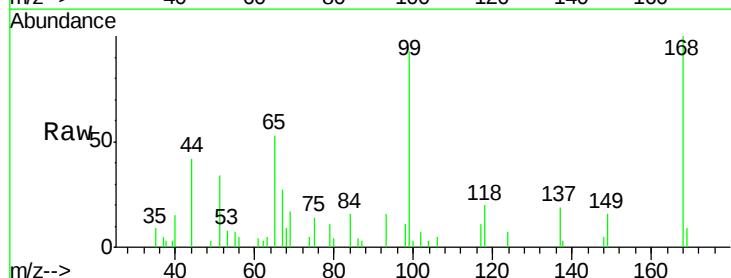
Acq: 11 Jan 2019 20:01

Tgt Ion: 65 Resp: 5254

Ion Ratio Lower Upper

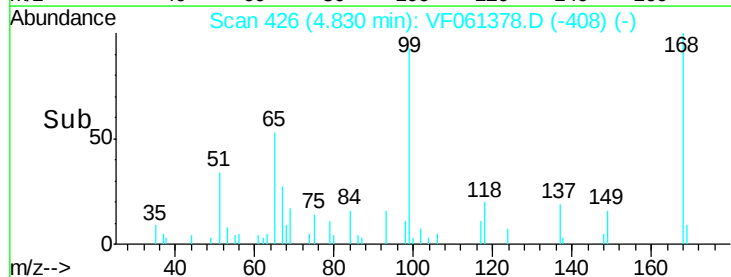
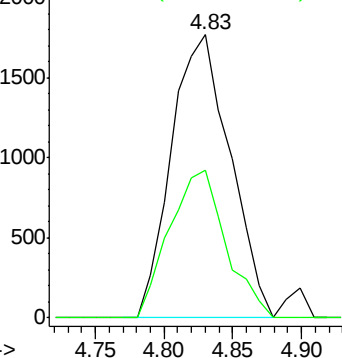
65 100

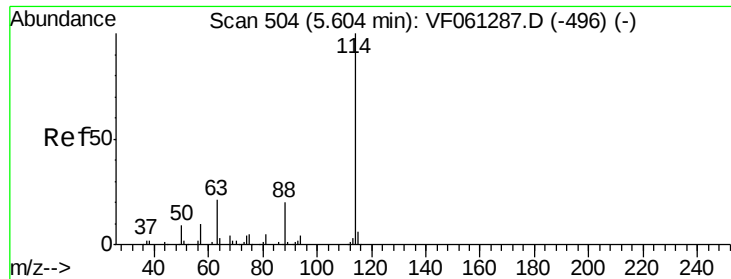
67 52.0 0.0 98.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

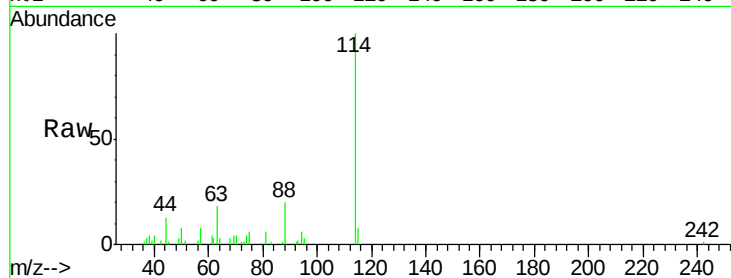




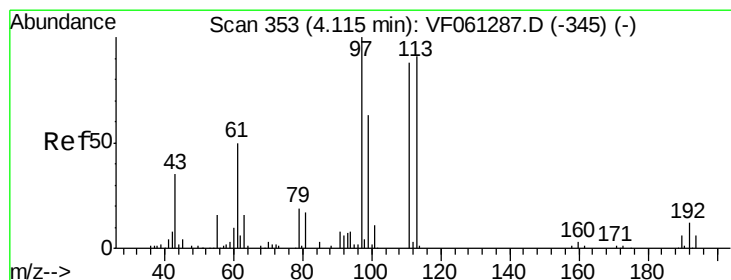
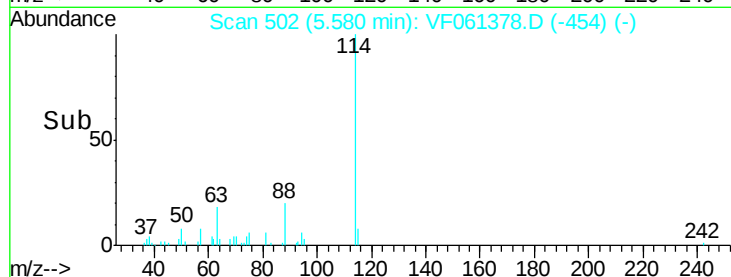
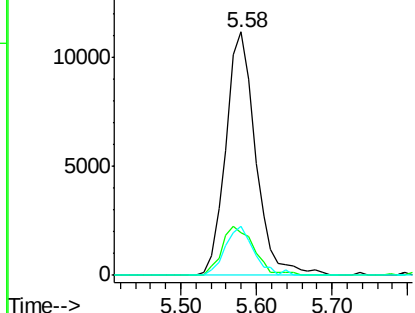
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.02 min
 Lab File: VF061378.D
 Acq: 11 Jan 2019 20:01

Instrument :
 MSVOA_F
 ClientSampleId :
 BASIN-9RE

Tot Ion:114 Resp: 30522
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 42.8
 88 20.3 0.0 40.0

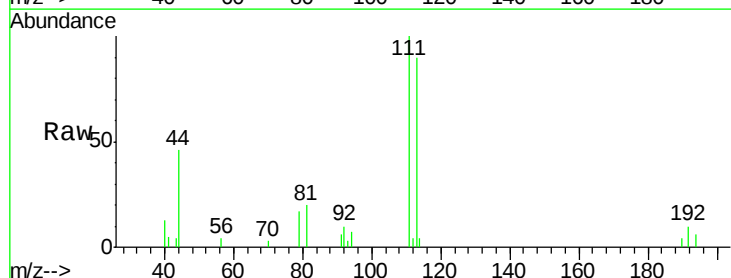


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

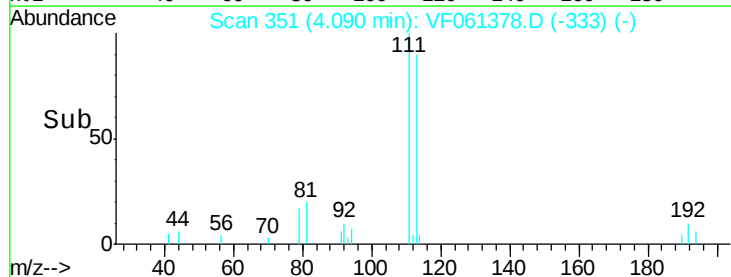
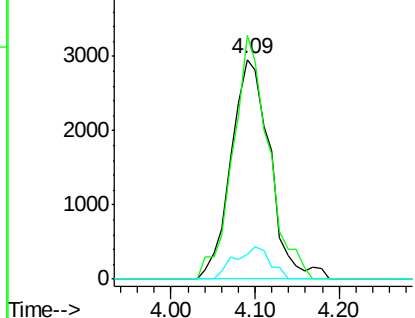


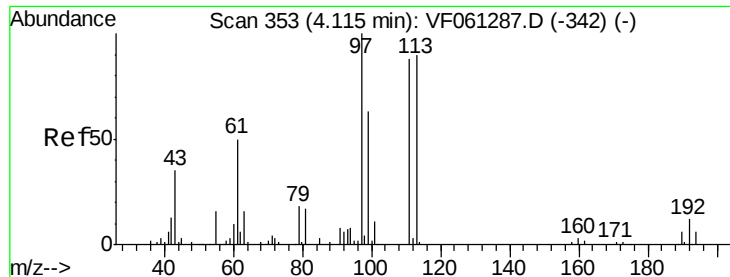
#35
 Dibromofluoromethane
 Concen: 41.042 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VF061378.D
 Acq: 11 Jan 2019 20:01

Tgt Ion:113 Resp: 9585
 Ion Ratio Lower Upper
 113 100
 111 111.0 78.0 117.0
 192 11.2 10.6 16.0



Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 2.388 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

BASIN-9RE

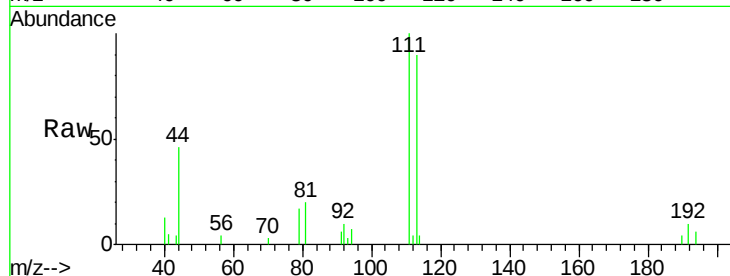
Tot Ion: 43 Resp: 310

Ion Ratio Lower Upper

43 100

61 0.0 113.3 169.9#

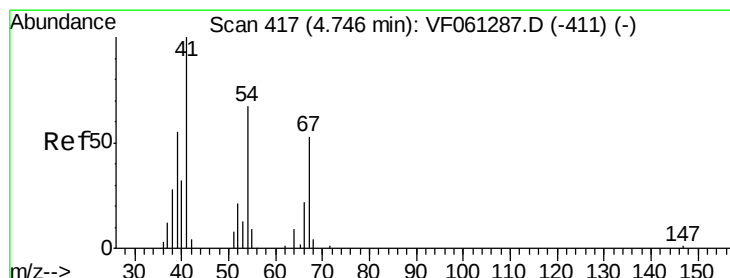
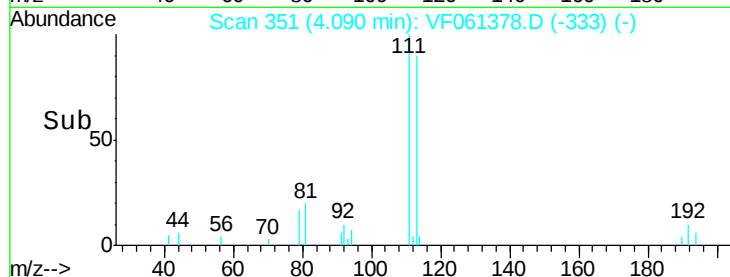
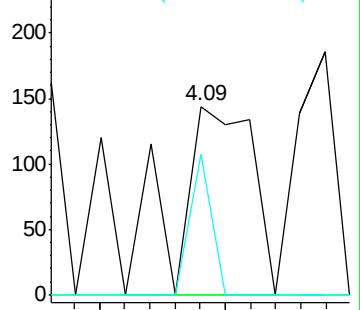
70 74.3 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#41

Methacrylonitrile

Concen: 1.518 ug/l

RT: 4.74 min Scan# 417

Delta R.T. -0.00 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Tgt Ion: 41 Resp: 110

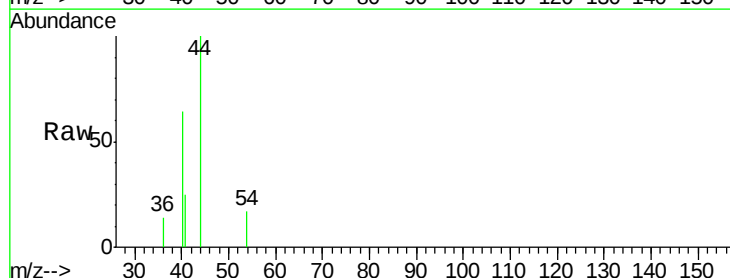
Ion Ratio Lower Upper

41 100

39 0.0 52.7 79.1#

67 0.0 41.4 62.2#

52 0.0 33.0 49.4#

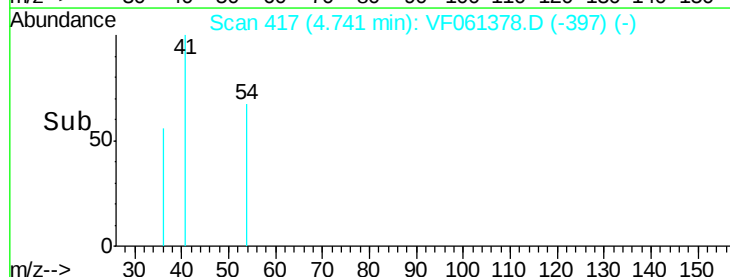
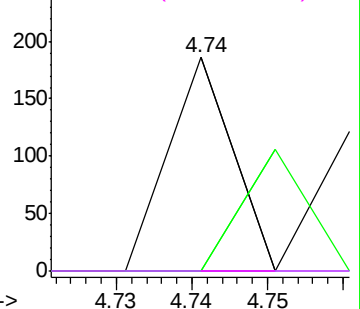


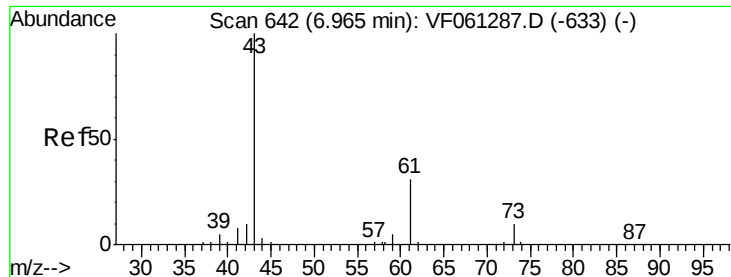
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#43

Isopropyl Acetate

Concen: 1.640 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.03 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

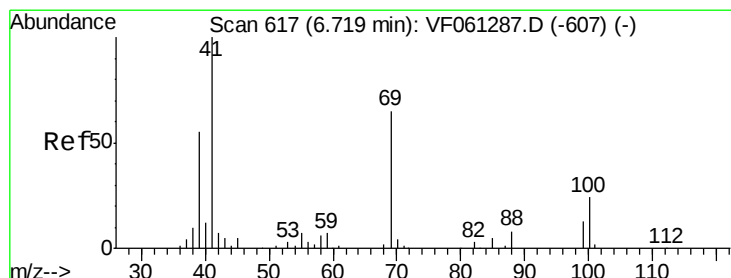
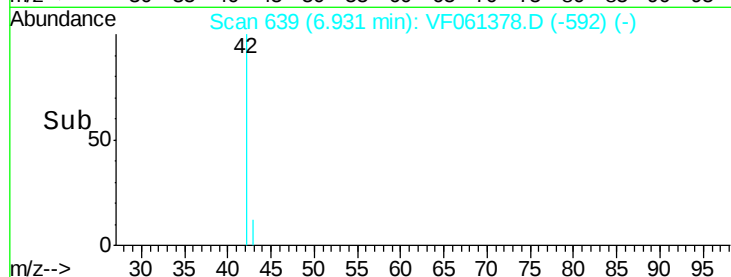
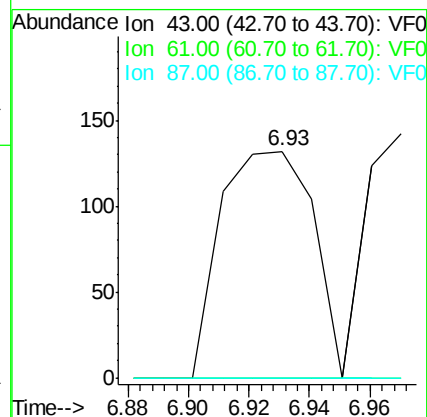
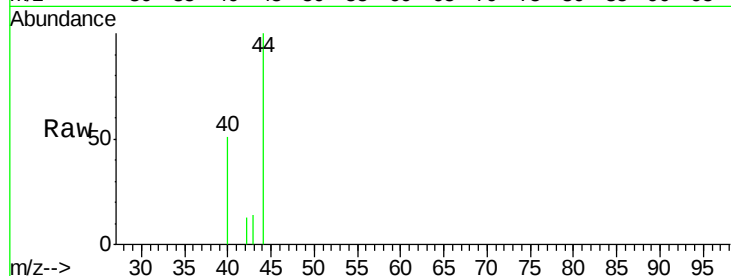
MSVOA_F

ClientSampleId :

BASIN-9RE

Tot Ion: 43 Resp: 281

Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.3	36.5#
87	0.0	0.2	0.4#



#48

Methyl methacrylate

Concen: 1.870 ug/l

RT: 6.74 min Scan# 620

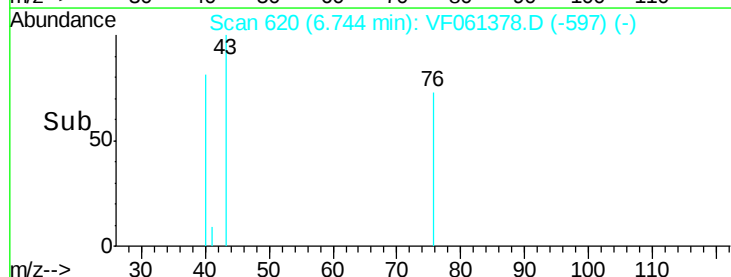
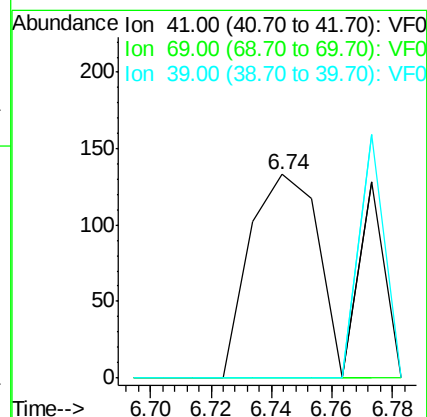
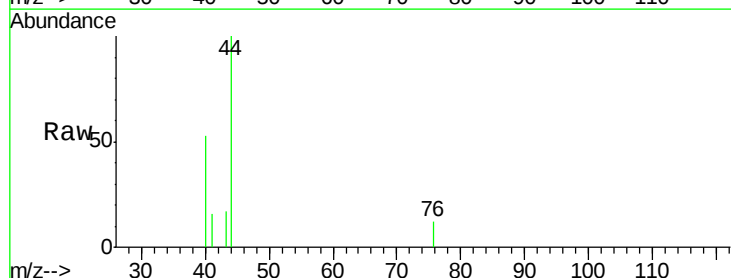
Delta R.T. 0.02 min

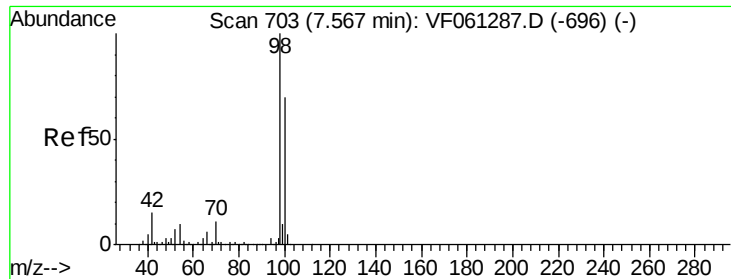
Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Tgt Ion: 41 Resp: 208

Ion	Ratio	Lower	Upper
41	100		
69	0.0	51.5	77.3#
39	0.0	44.1	66.1#





#50

Toluene-d8

Concen: 41.618 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

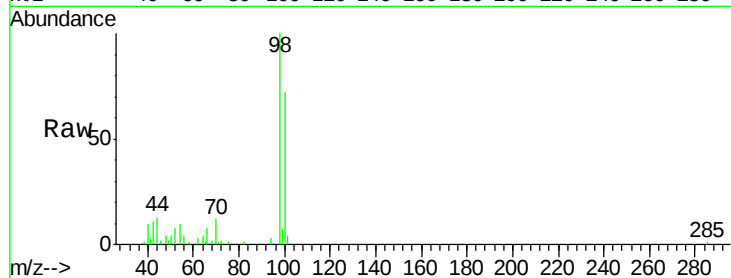
BASIN-9RE

Tot Ion: 98 Resp: 28763

Ion Ratio Lower Upper

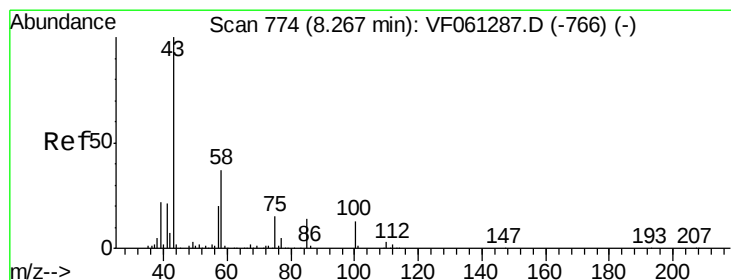
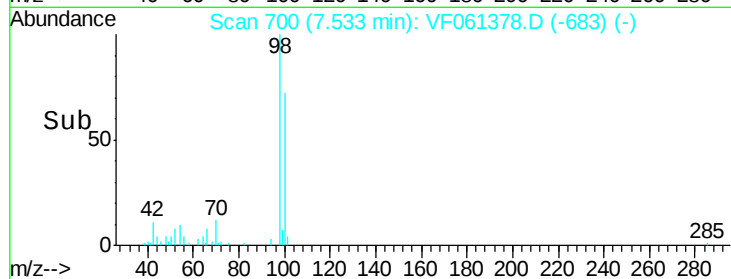
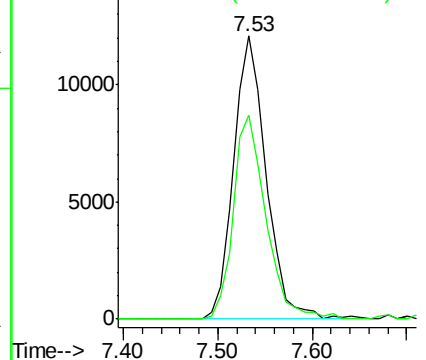
98 100

100 72.2 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 2.899 ug/l

RT: 8.22 min Scan# 770

Delta R.T. -0.04 min

Lab File: VF061378.D

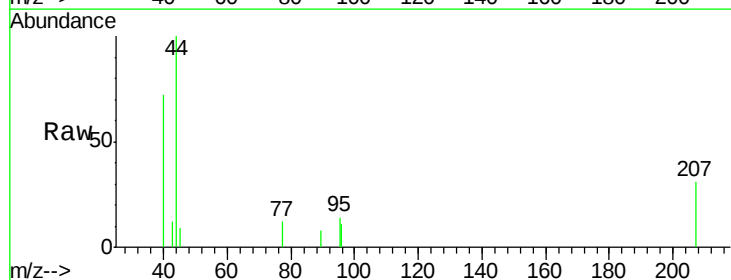
Acq: 11 Jan 2019 20:01

Tgt Ion: 43 Resp: 375

Ion Ratio Lower Upper

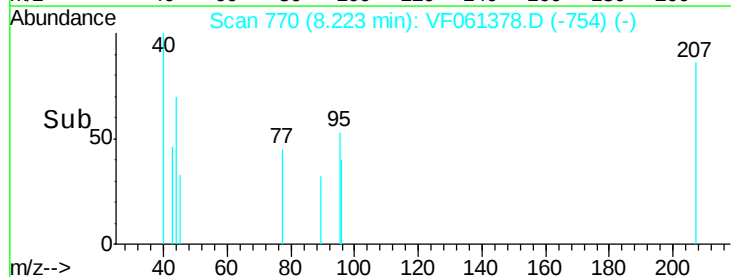
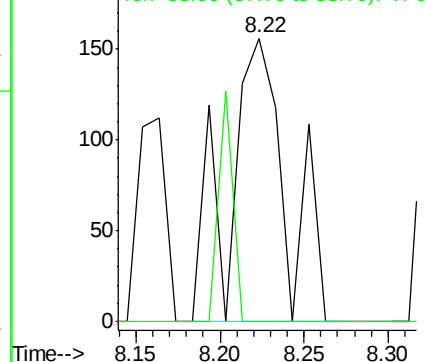
43 100

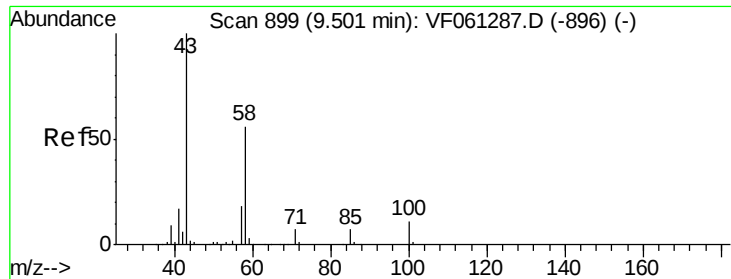
58 0.0 29.6 44.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#59

2-Hexanone

Concen: 1.386 ug/l

RT: 9.45 min Scan# 894

Delta R.T. -0.05 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

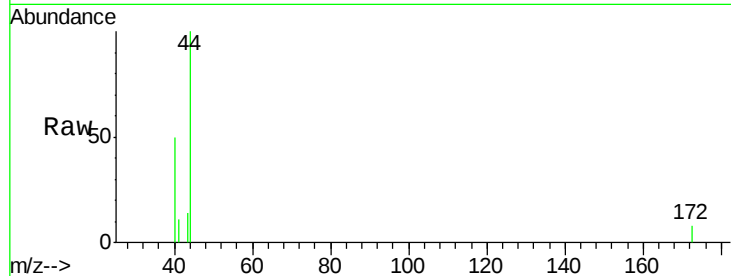
BASIN-9RE

Tot Ion: 43 Resp: 127

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.45

200

150

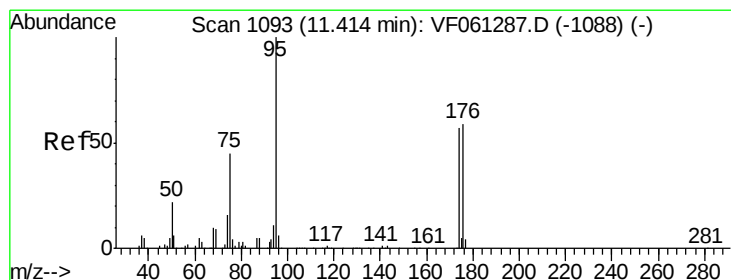
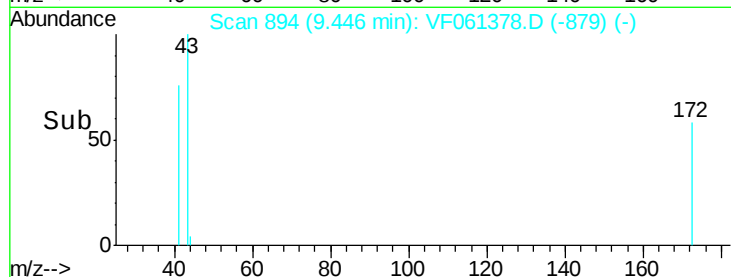
100

50

0

9.43 9.44 9.45 9.46

Time-->



#62

4-Bromofluorobenzene

Concen: 19.862 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

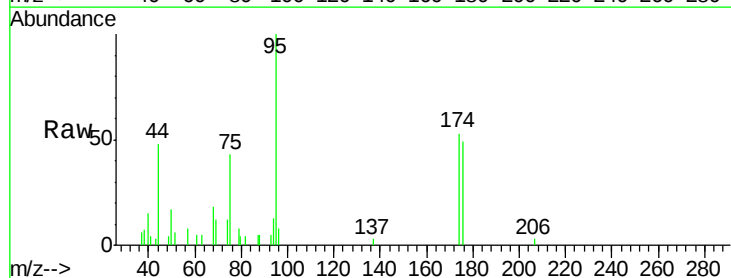
Tgt Ion: 95 Resp: 5994

Ion Ratio Lower Upper

95 100

174 52.7 0.0 114.2

176 48.5 0.0 117.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

4000

3000

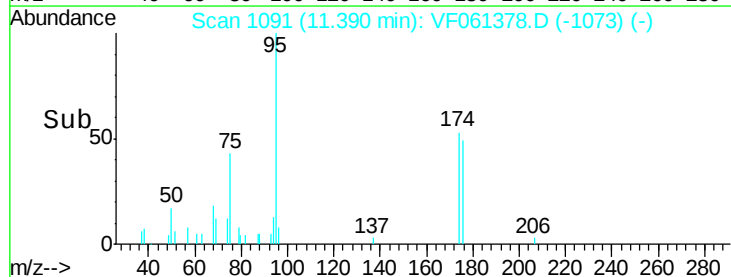
2000

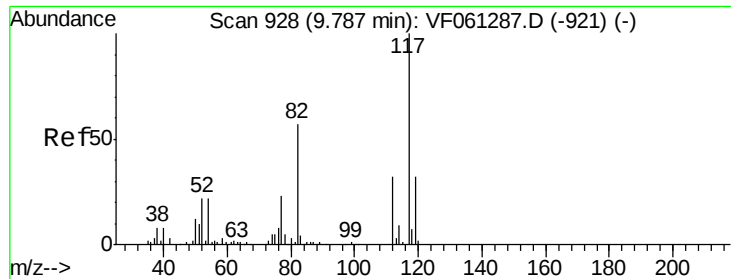
1000

0

11.30 11.40 11.50

Time-->

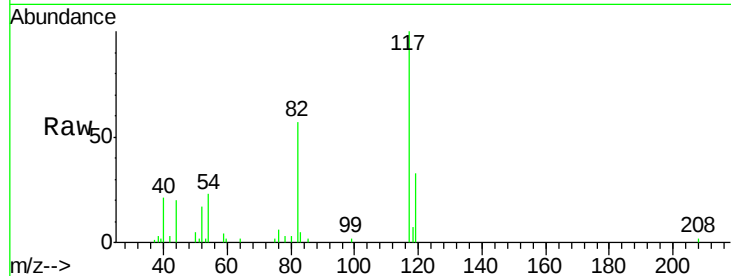




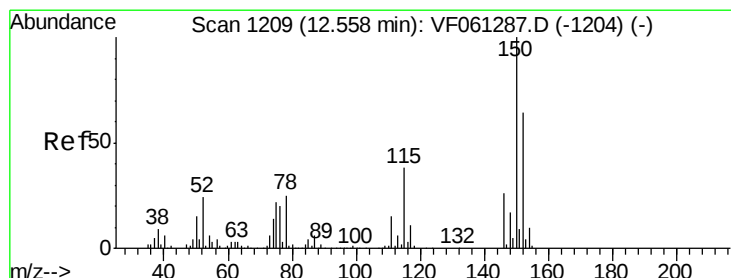
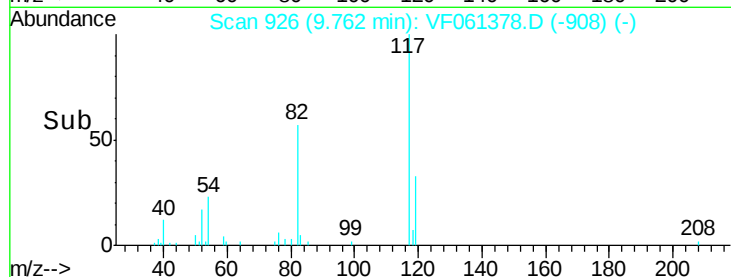
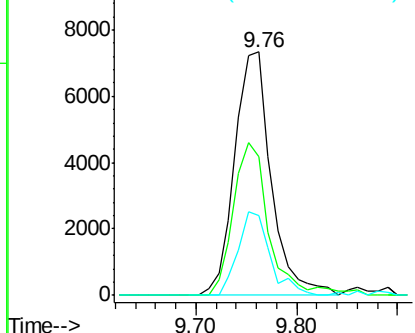
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061378.D
Acq: 11 Jan 2019 20:01

Instrument :
MSVOA_F
ClientSampleId :
BASIN-9RE

Tot Ion:117 Resp: 18576
Ion Ratio Lower Upper
117 100
82 56.8 45.3 67.9
119 33.0 25.4 38.0

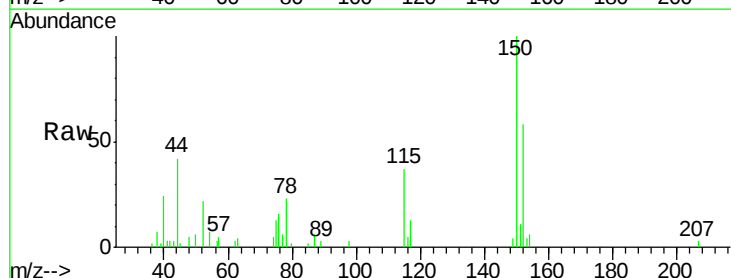


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

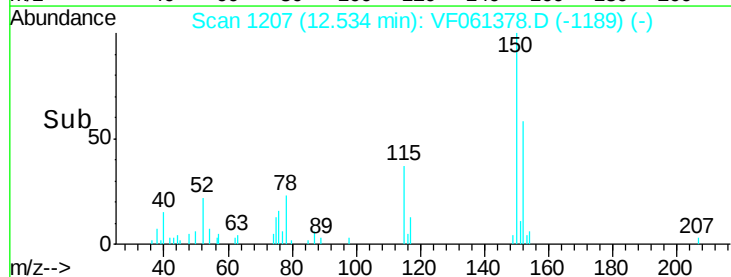
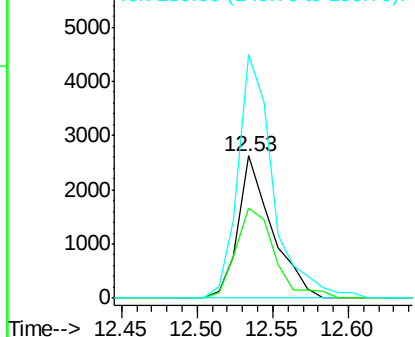


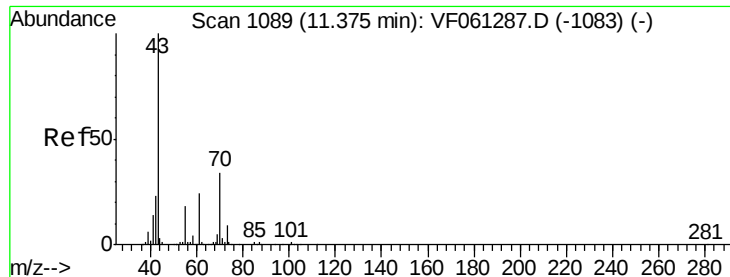
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.02 min
Lab File: VF061378.D
Acq: 11 Jan 2019 20:01

Tgt Ion:152 Resp: 4079
Ion Ratio Lower Upper
152 100
115 62.9 29.6 88.9
150 171.2 0.0 315.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 5.429 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

BASIN-9RE

Tot Ion: 43 Resp: 443

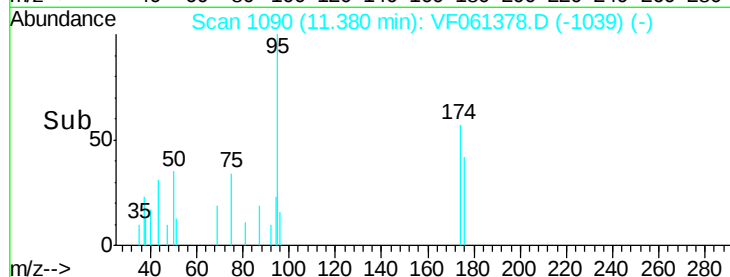
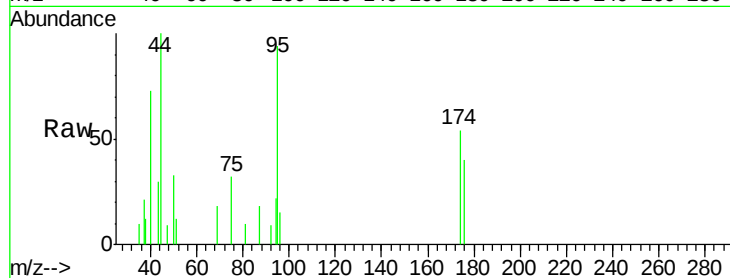
Ion Ratio Lower Upper

43 100

70 0.0 27.4 41.0#

55 0.0 14.7 22.1#

61 0.0 19.0 28.4#

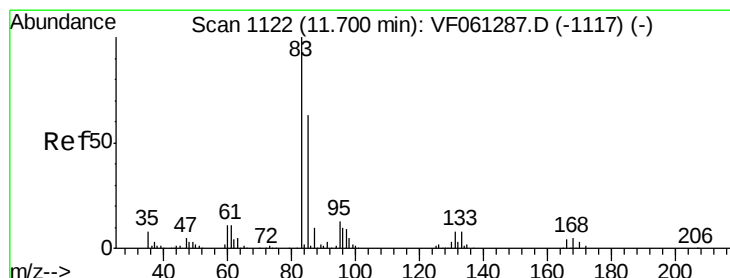
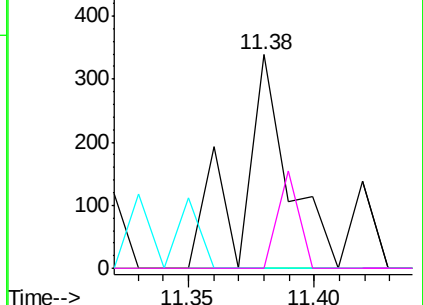


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 1.476 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. 0.11 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

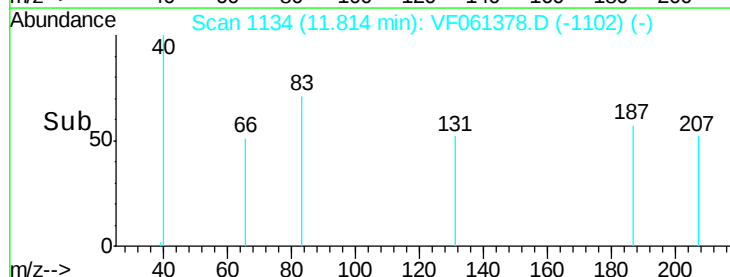
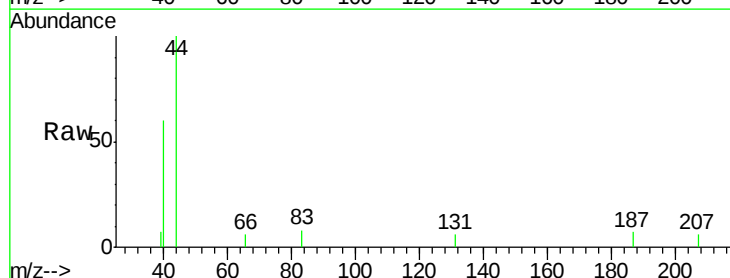
Tgt Ion: 83 Resp: 84

Ion Ratio Lower Upper

83 100

131 72.5 3.9 11.7#

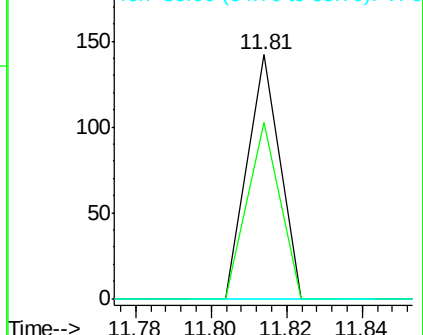
85 0.0 31.6 94.7#

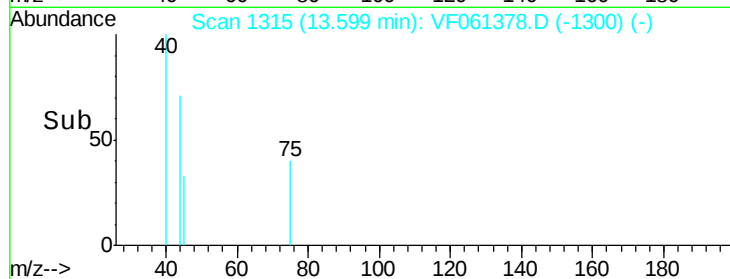
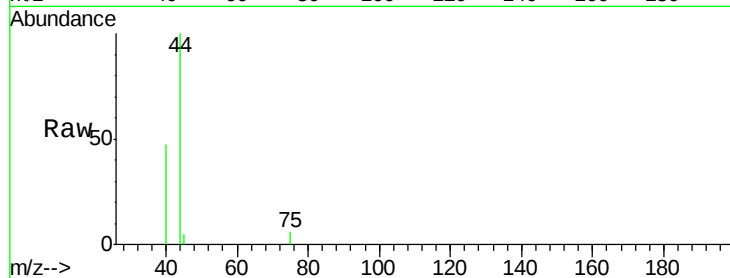
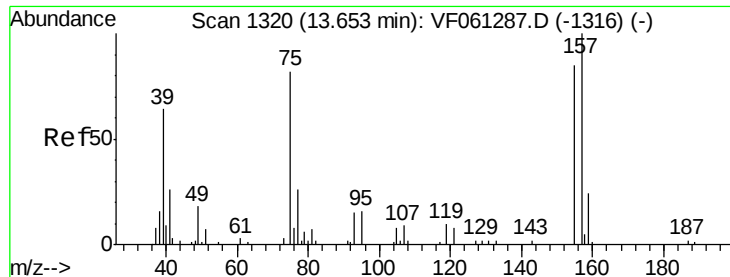


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 10.192 ug/l

RT: 13.60 min Scan# 1315

Delta R.T. -0.05 min

Lab File: VF061378.D

Acq: 11 Jan 2019 20:01

Instrument :

MSVOA_F

ClientSampleId :

BASIN-9RE

Tot Ion: 75 Resp: 98

Ion Ratio Lower Upper

75 100

155 0.0 51.3 154.0#

157 0.0 60.7 182.0#

