

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060978.D
 Acq On : 11 Dec 2018 16:03
 Operator : VA/AP
 Sample : J6193-01RE
 Misc : 5.3g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-121018-A

Quant Time: Dec 12 06:27:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

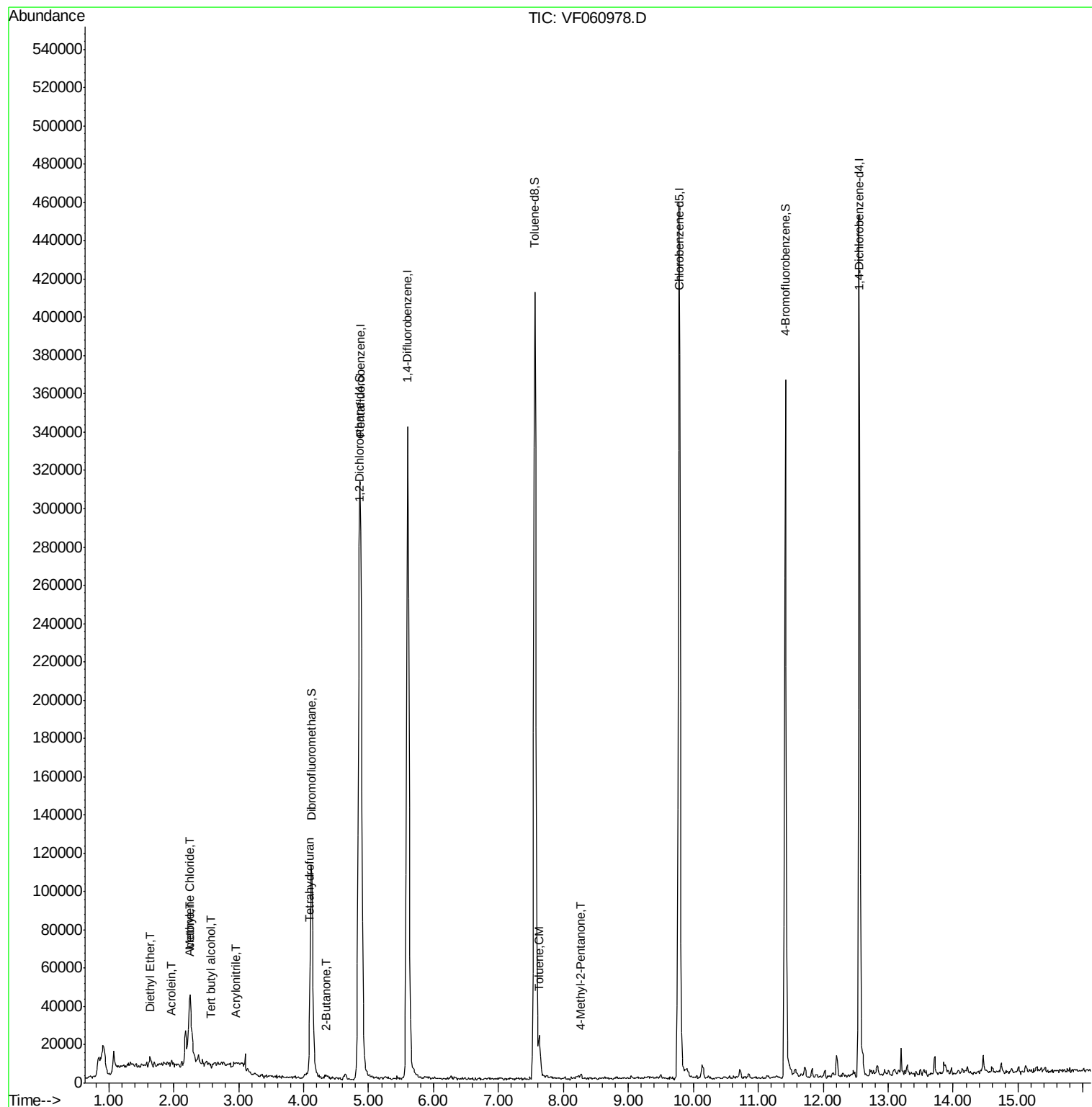
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	218548	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.60	114	380047	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	315120	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	107086	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	140314	54.50	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	109.00%	
35) Dibromofluoromethane	4.12	113	104687	34.72	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	69.44%	
50) Toluene-d8	7.56	98	338100	38.07	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	76.14%	
62) 4-Bromofluorobenzene	11.42	95	135924	33.67	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	67.34%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.64	74	1486	2.428	ug/l	58
11) Tert butyl alcohol	2.57	59	150	1.421	ug/l #	1
13) Acrolein	1.98	56	906	9.061	ug/l	91
15) Acrylonitrile	2.95	53	1089	4.603	ug/l #	41
16) Acetone	2.23	43	19487	41.046	ug/l	94
18) Methyl Acetate	2.36	43	711	Below Cal	#	61
20) Methylene Chloride	2.24	84	17884	10.268	ug/l	85
25) 2-Butanone	4.35	43	5195	6.326	ug/l	94
29) Tetrahydrofuran	4.09	42	1071	3.077	ug/l #	60
41) Methacrylonitrile	4.72	41	276	Below Cal	#	39
43) Isopropyl Acetate	6.91	43	825	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.27	43	1927	1.220	ug/l #	38
52) Toluene	7.63	92	9594	1.467	ug/l	94
95) Naphthalene	14.46	128	4528	Below Cal	#	86

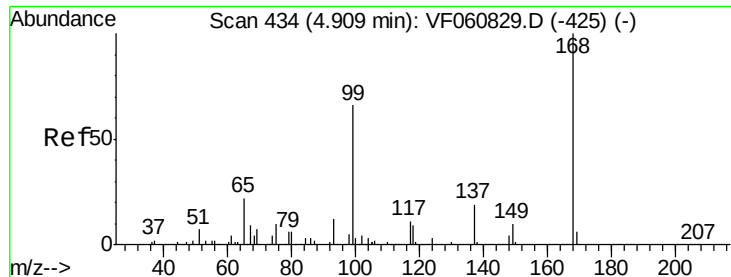
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

Instrument :

MSVOA_F

ClientSampleId :

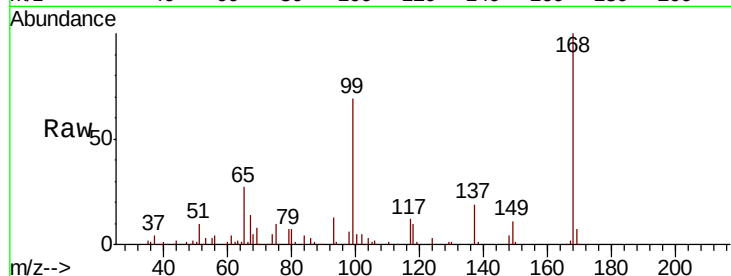
CL-01-121018-A

Tot Ion:168 Resp: 218548

Ion Ratio Lower Upper

168 100

99 68.7 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

60000

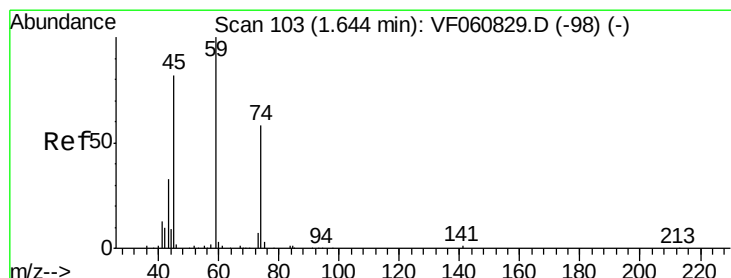
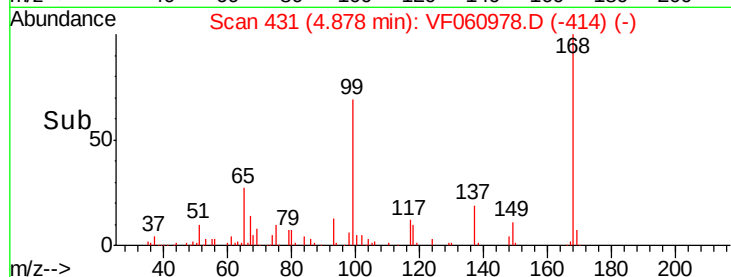
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 2.428 ug/l

RT: 1.64 min Scan# 103

Delta R.T. -0.00 min

Lab File: VF060978.D

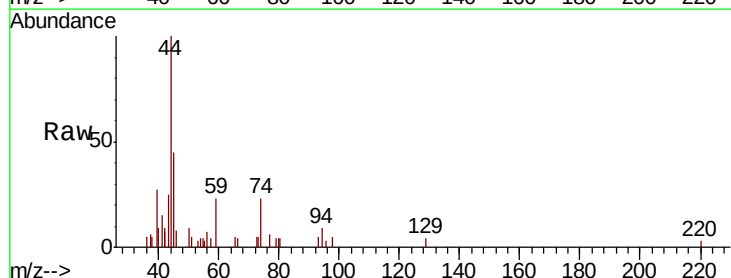
Acq: 11 Dec 2018 16:03

Tgt Ion: 74 Resp: 1486

Ion Ratio Lower Upper

74 100

45 194.0 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1500

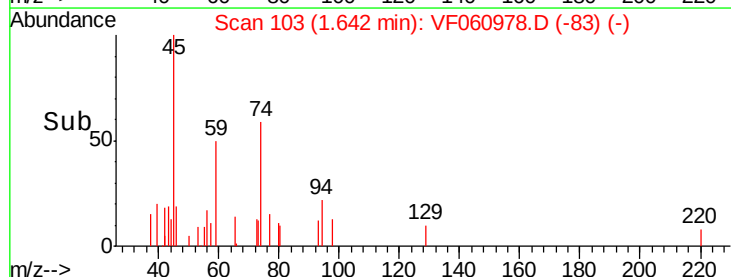
1000

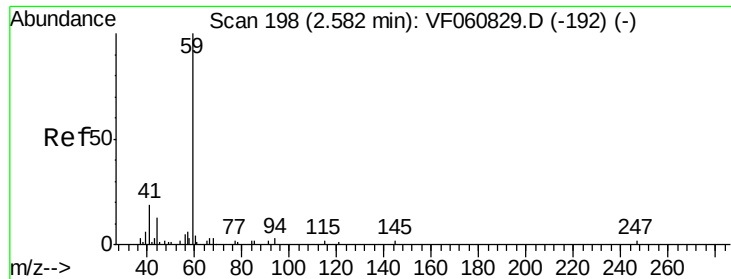
500

0

Time-->

1.60 1.65 1.70



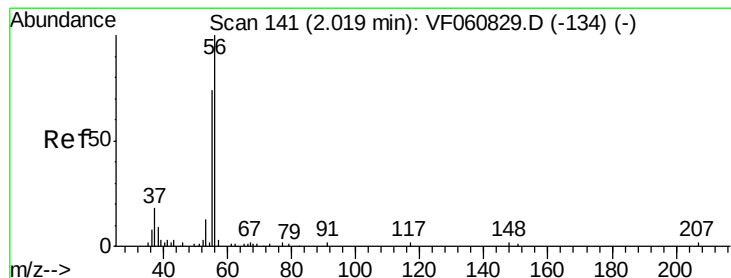
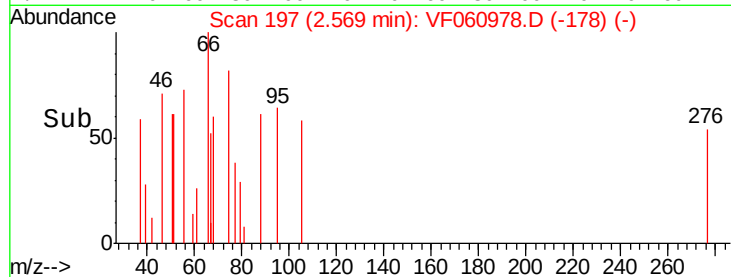
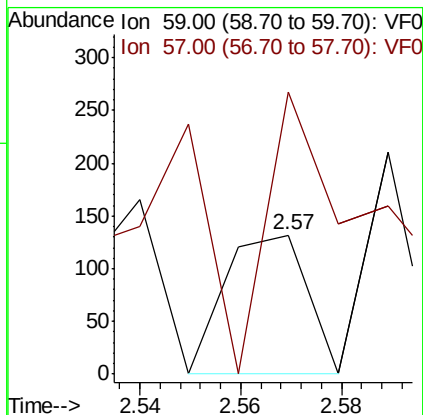
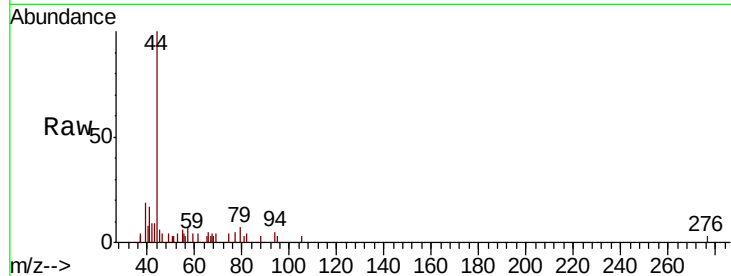


#11

Tert butyl alcohol
 Concen: 1.421 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. -0.01 min
 Lab File: VF060978.D
 Acq: 11 Dec 2018 16:03

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-121018-A

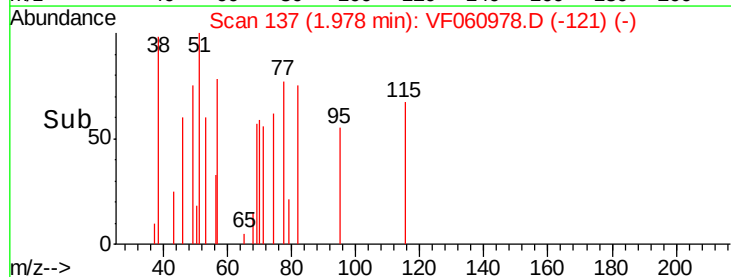
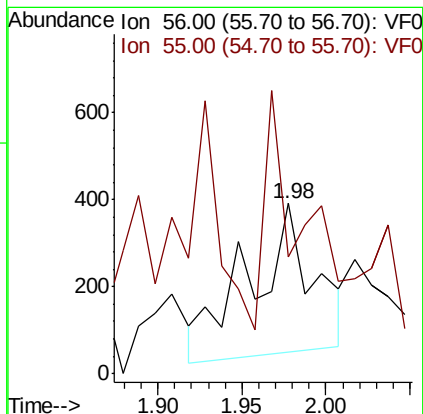
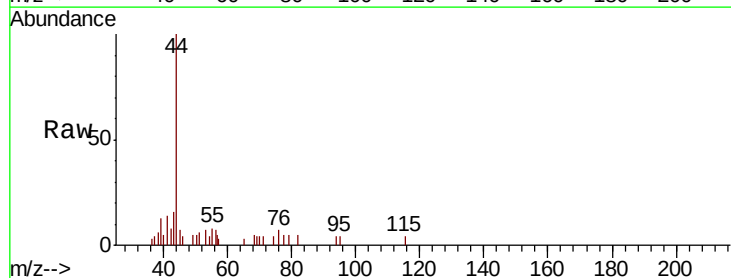
Tot Ion: 59 Resp: 150
 Ion Ratio Lower Upper
 59 100
 57 203.0 12.7 19.1#

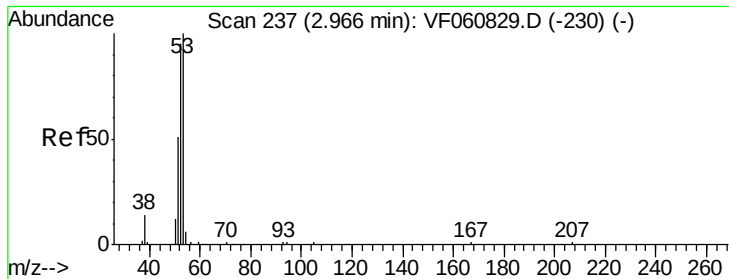


#13

Acrolein
 Concen: 9.061 ug/l
 RT: 1.98 min Scan# 137
 Delta R.T. -0.04 min
 Lab File: VF060978.D
 Acq: 11 Dec 2018 16:03

Tgt Ion: 56 Resp: 906
 Ion Ratio Lower Upper
 56 100
 55 69.1 61.2 91.8





#15

Acrylonitrile

Concen: 4.603 ug/l

RT: 2.95 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-A

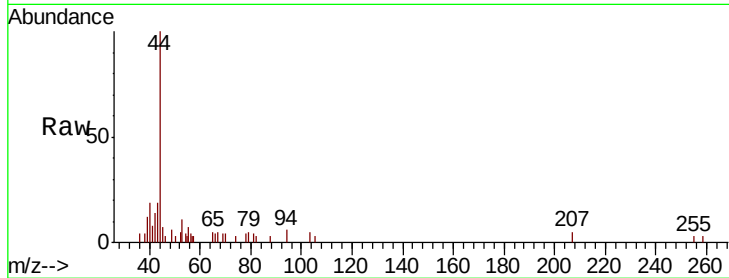
Tot Ion: 53 Resp: 1089

Ion Ratio Lower Upper

53 100

52 45.7 76.5 114.7#

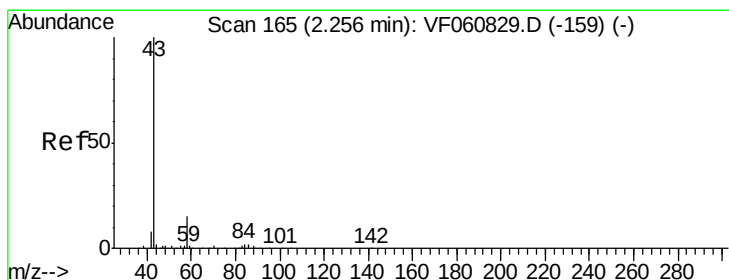
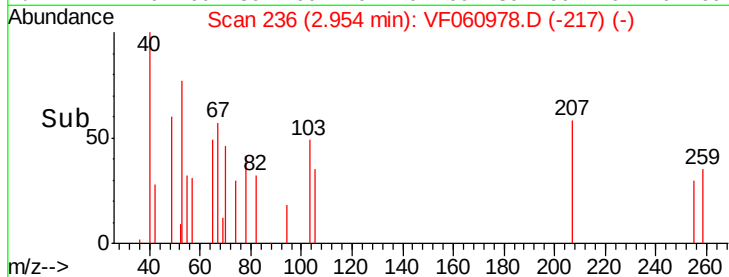
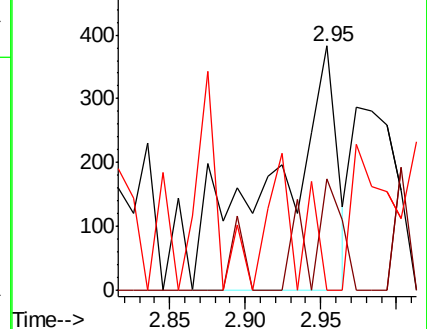
51 0.0 40.7 61.1#



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: 41.046 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060978.D

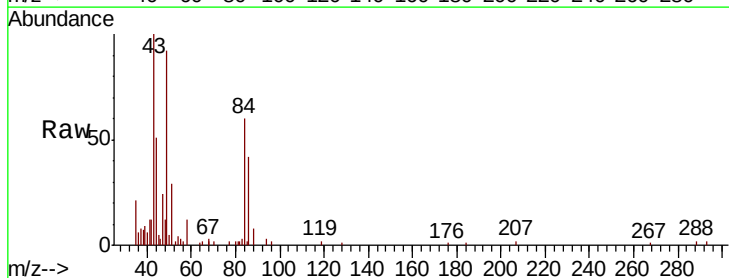
Acq: 11 Dec 2018 16:03

Tgt Ion: 43 Resp: 19487

Ion Ratio Lower Upper

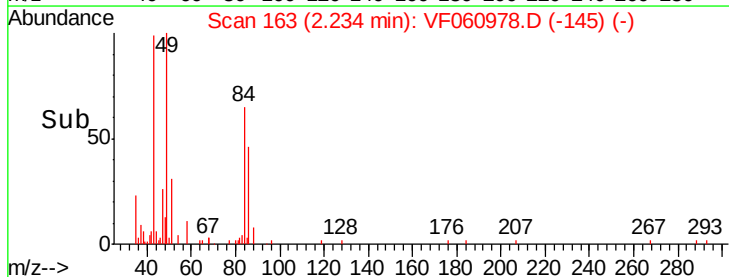
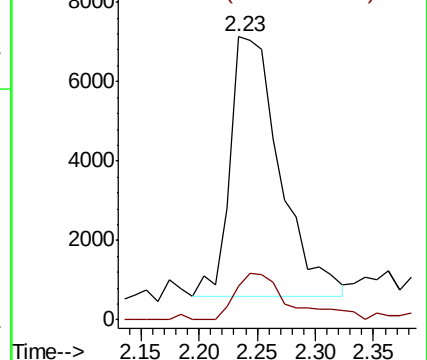
43 100

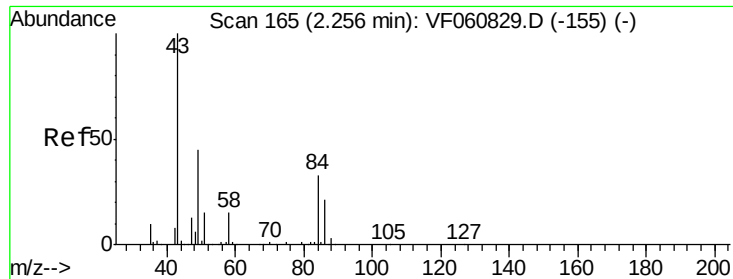
58 11.9 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

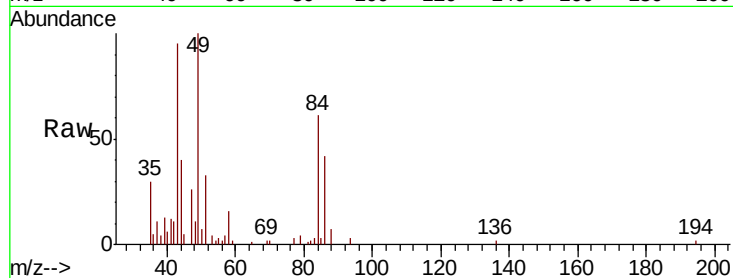




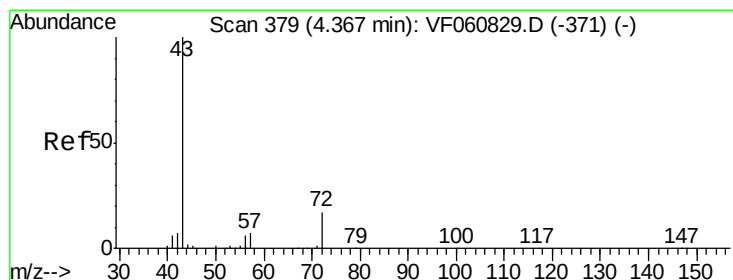
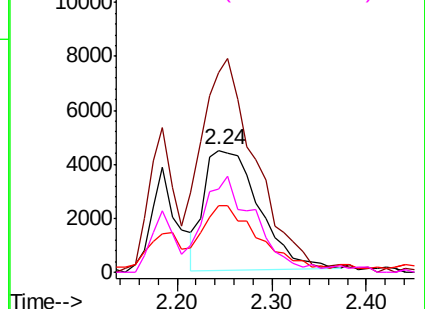
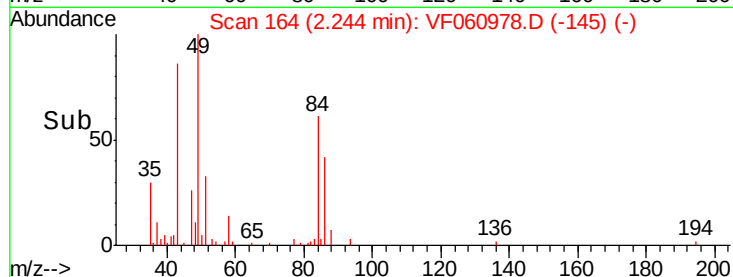
#20
Methylene Chloride
Concen: 10.268 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060978.D
Acq: 11 Dec 2018 16:03

Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-A

Tot Ion: 84 Resp: 17884
Ion Ratio Lower Upper
84 100
49 163.8 111.3 166.9
51 54.8 38.0 57.0
86 68.6 49.8 74.8

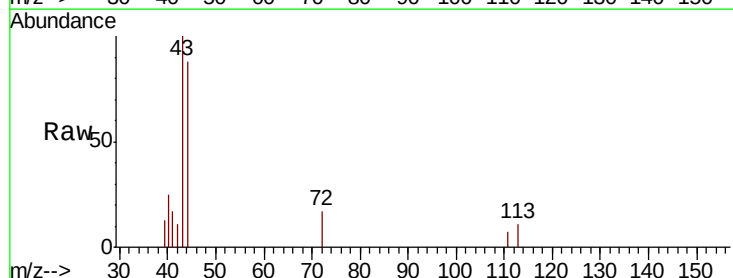


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

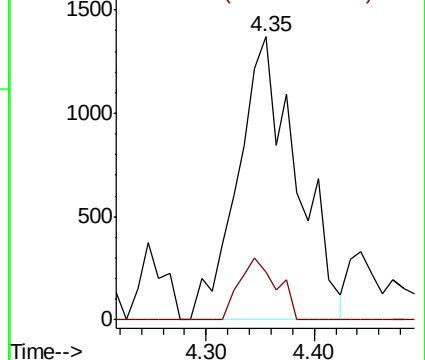
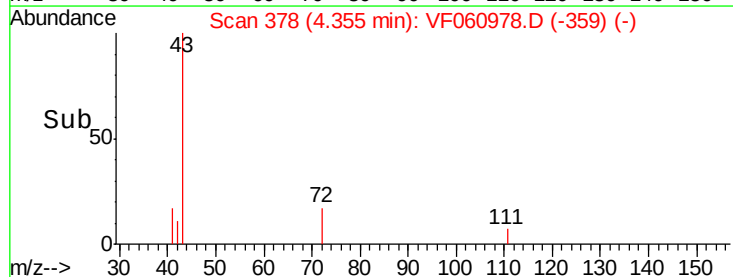


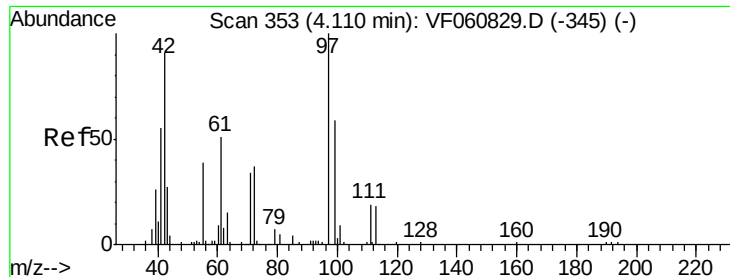
#25
2-Butanone
Concen: 6.326 ug/l
RT: 4.35 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF060978.D
Acq: 11 Dec 2018 16:03

Tgt Ion: 43 Resp: 5195
Ion Ratio Lower Upper
43 100
72 16.7 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.077 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-A

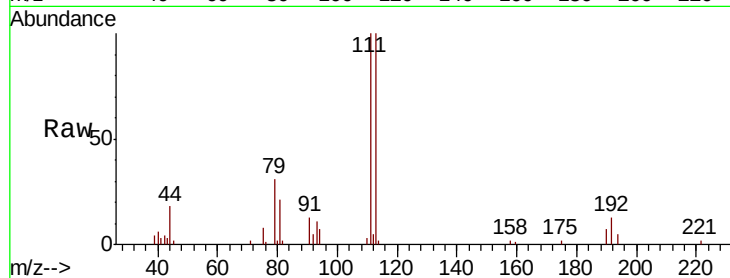
Tot Ion: 42 Resp: 1071

Ion Ratio Lower Upper

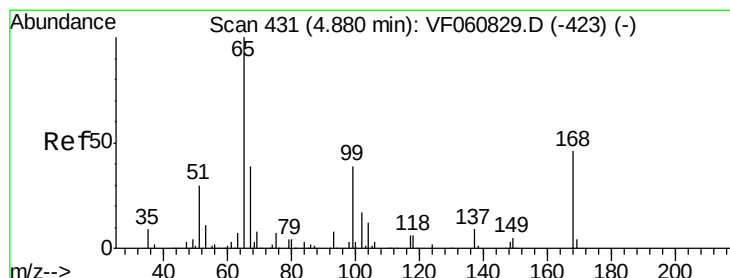
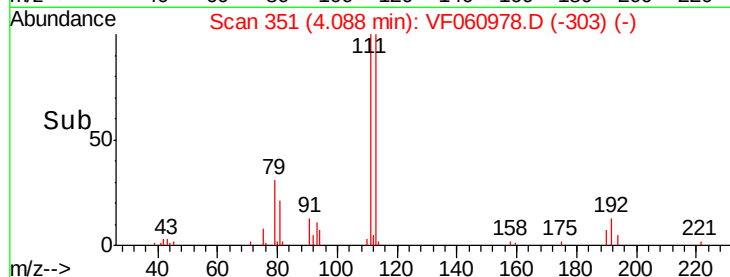
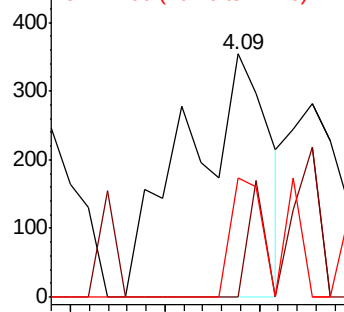
42 100

72 0.0 31.9 47.9#

71 28.1 28.7 43.1#



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: 54.500 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060978.D

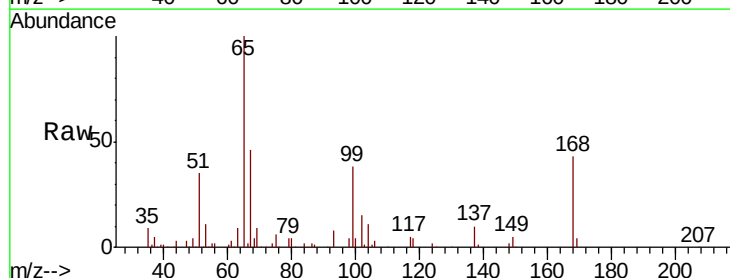
Acq: 11 Dec 2018 16:03

Tgt Ion: 65 Resp: 140314

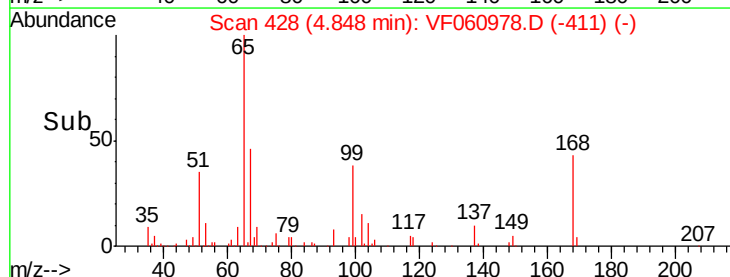
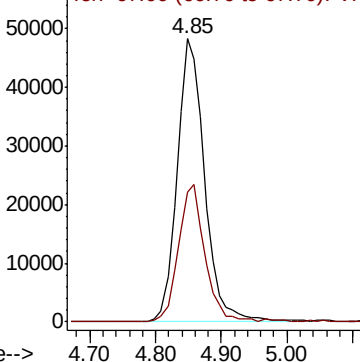
Ion Ratio Lower Upper

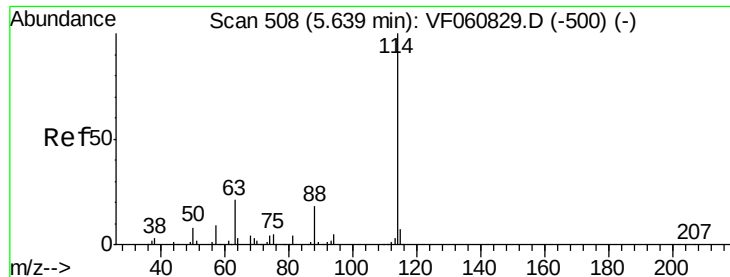
65 100

67 46.0 0.0 96.4



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: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-A

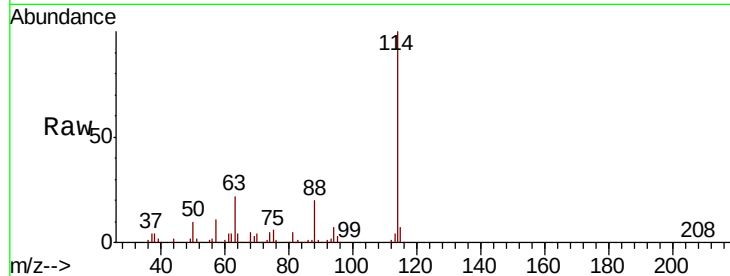
Tot Ion:114 Resp: 380047

Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.6

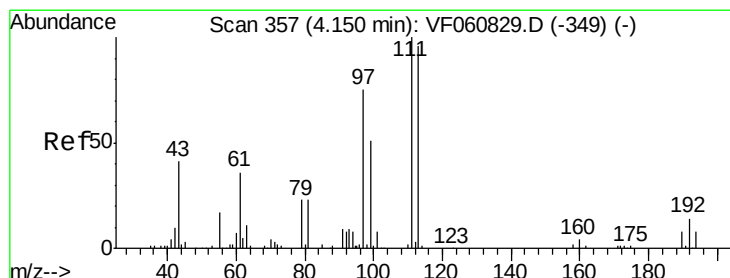
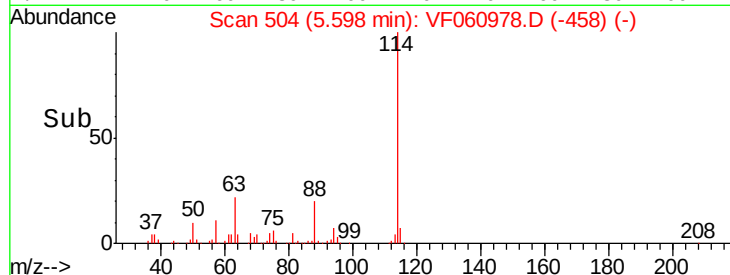
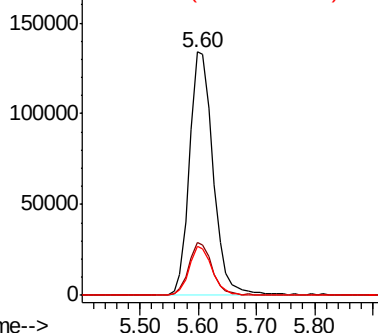
88 20.3 0.0 36.6



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: 34.722 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

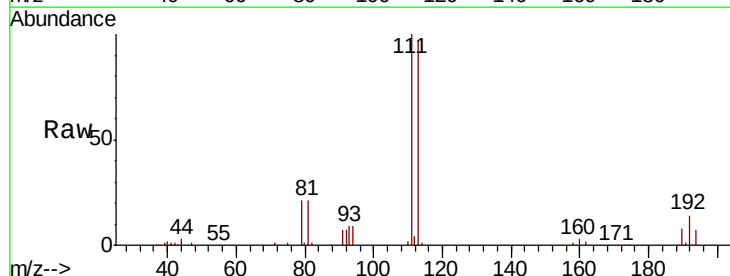
Tgt Ion:113 Resp: 104687

Ion Ratio Lower Upper

113 100

111 103.6 83.0 124.6

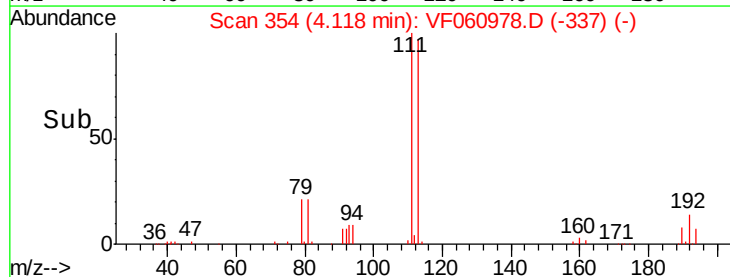
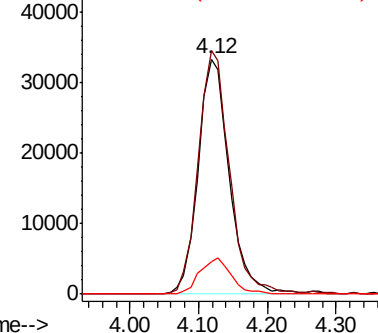
192 14.4 12.3 18.5

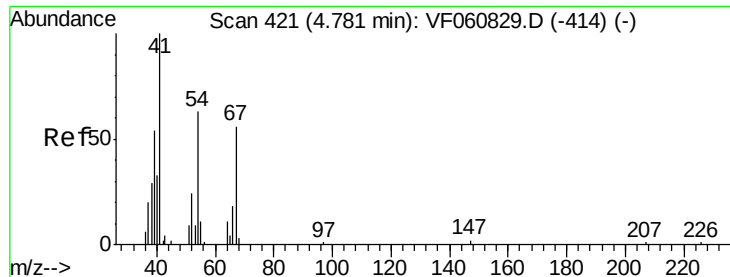


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.72 min Scan# 415

Delta R.T. -0.06 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-A

Tot Ion: 41 Resp: 276

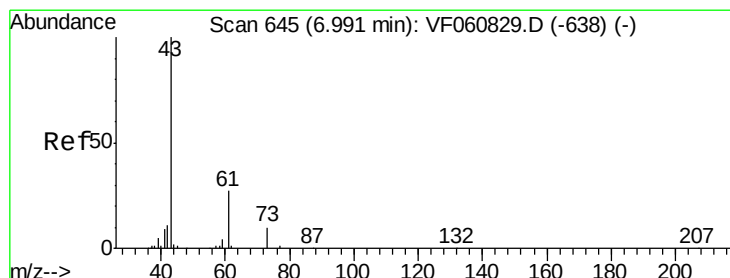
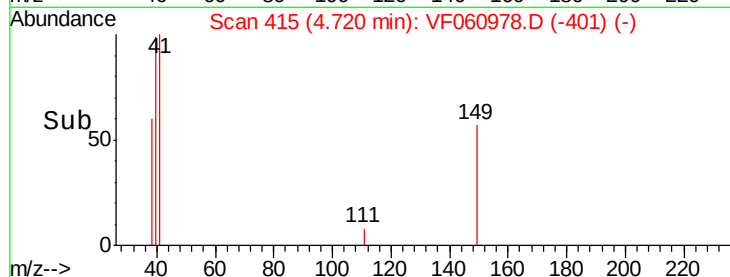
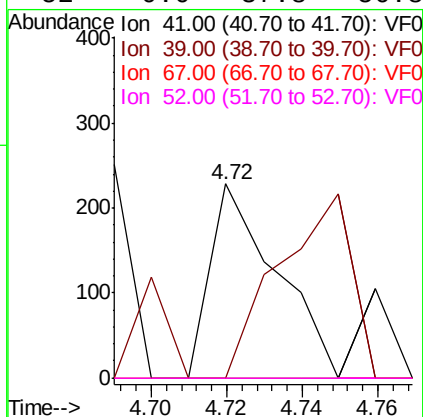
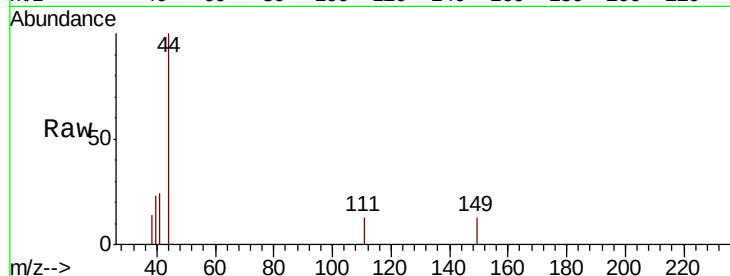
Ion Ratio Lower Upper

41 100

39 99.1 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#



#43

Isopropyl Acetate

Concen: Below Cal

RT: 6.91 min Scan# 637

Delta R.T. -0.08 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

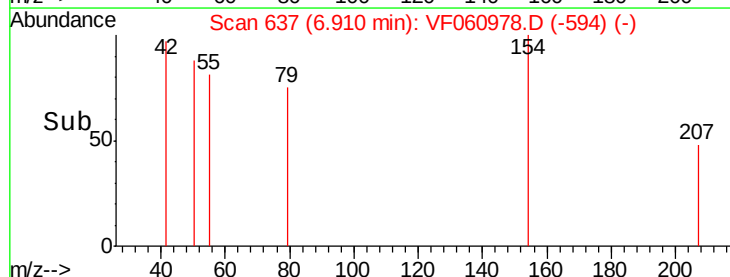
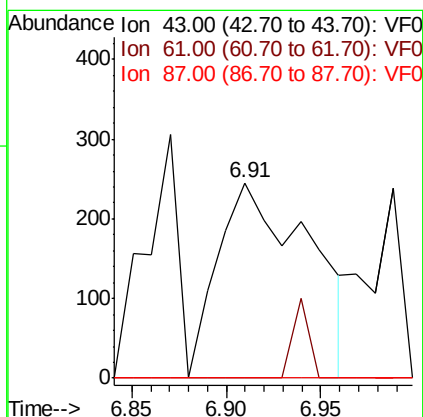
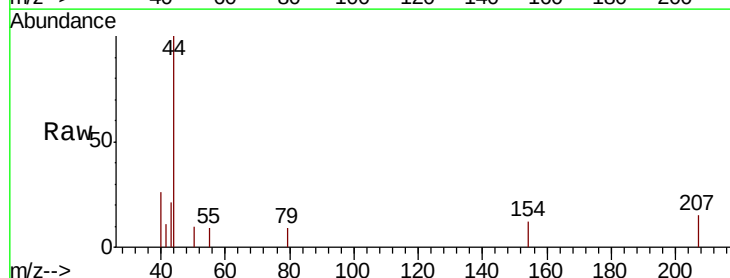
Tgt Ion: 43 Resp: 825

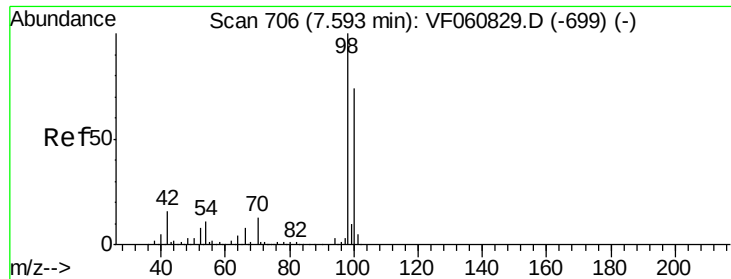
Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

87 0.0 0.2 0.4#





#50

Toluene-d8

Concen: 38.069 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

Instrument :

MSVOA_F

ClientSampleId :

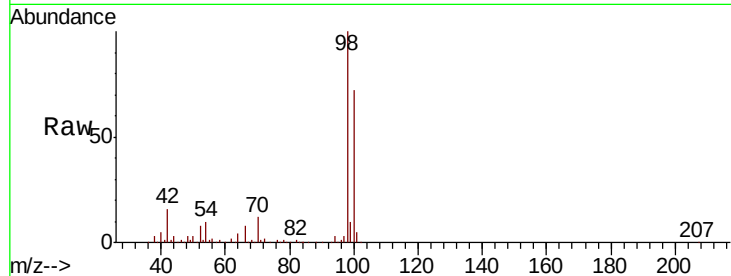
CL-01-121018-A

Tot Ion: 98 Resp: 338100

Ion Ratio Lower Upper

98 100

100 71.8 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

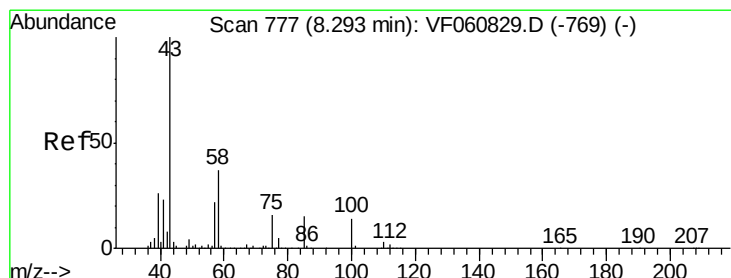
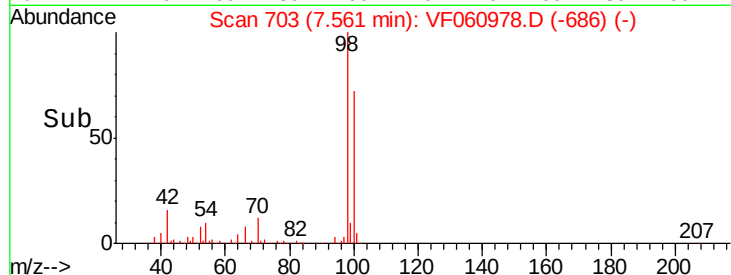
150000

100000

50000

0

Time--> 7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.220 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF060978.D

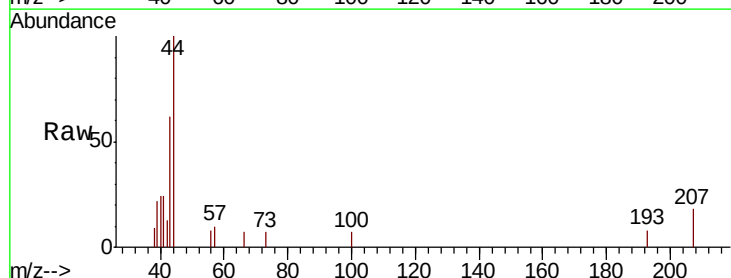
Acq: 11 Dec 2018 16:03

Tgt Ion: 43 Resp: 1927

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

1000

800

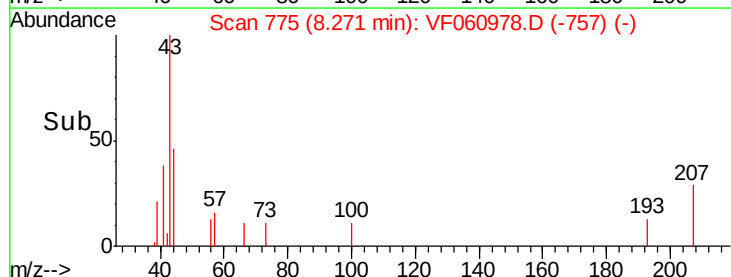
600

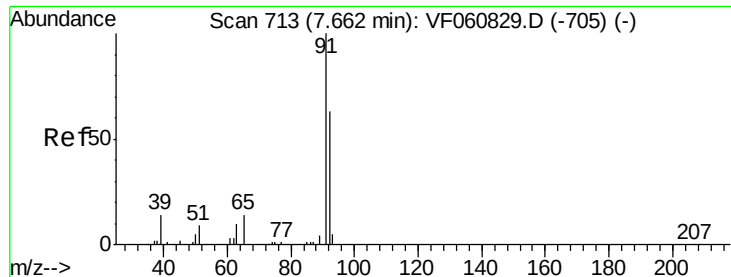
400

200

0

Time--> 8.20 8.25 8.30





#52

Toluene

Concen: 1.467 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

Instrument :

MSVOA_F

ClientSampleId :

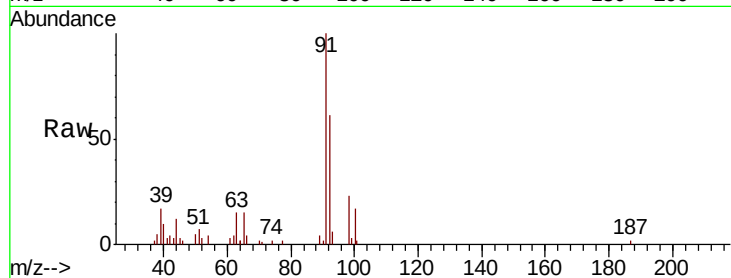
CL-01-121018-A

Tot Ion: 92 Resp: 9594

Ion Ratio Lower Upper

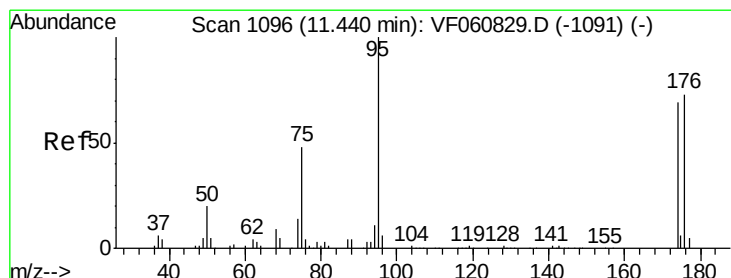
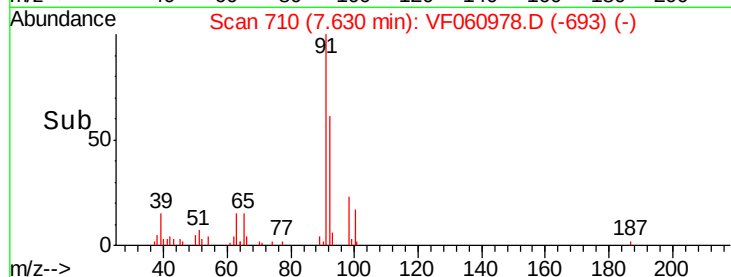
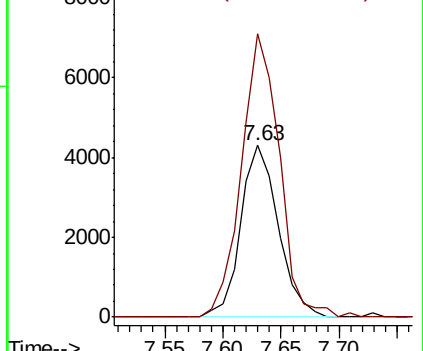
92 100

91 165.0 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#62

4-Bromofluorobenzene

Concen: 33.674 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF060978.D

Acq: 11 Dec 2018 16:03

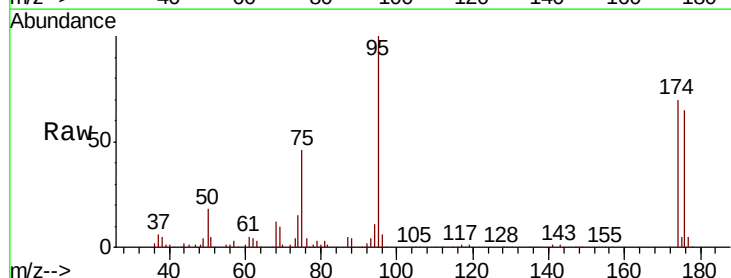
Tgt Ion: 95 Resp: 135924

Ion Ratio Lower Upper

95 100

174 69.6 0.0 138.2

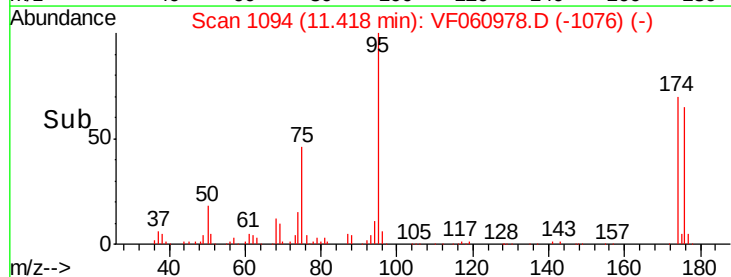
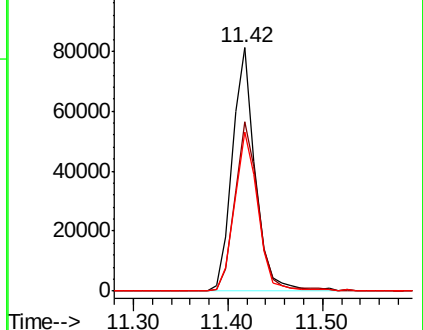
176 65.5 0.0 146.2

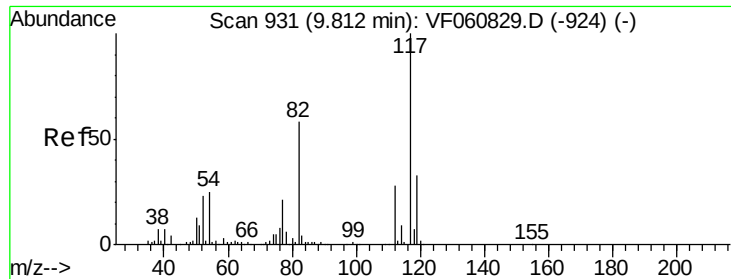


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

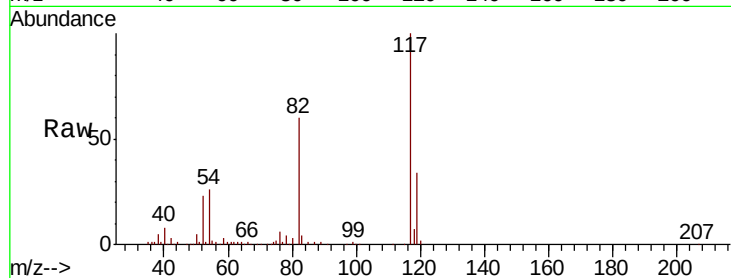




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060978.D
Acq: 11 Dec 2018 16:03

Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-A

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.9	46.6	69.8
119	33.9	26.4	39.6

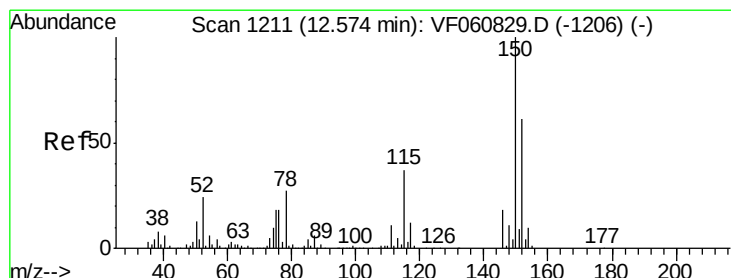
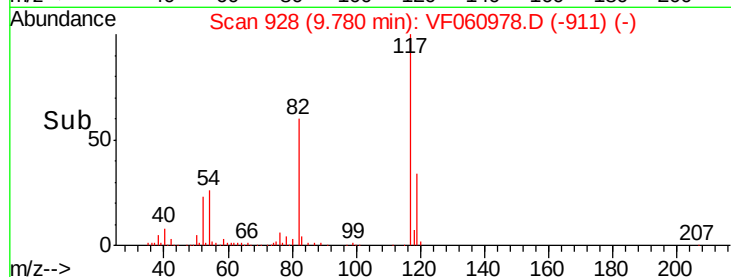
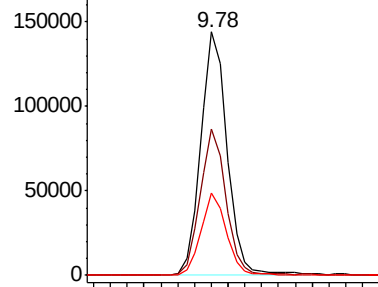


Abundance

Ion 117.00 (116.70 to 117.70): V

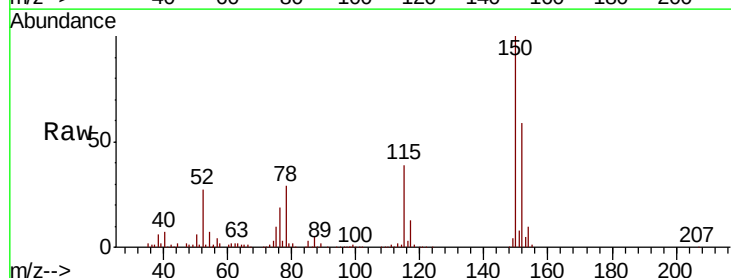
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060978.D
Acq: 11 Dec 2018 16:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	66.2	30.1	90.5
150	168.4	0.0	327.6

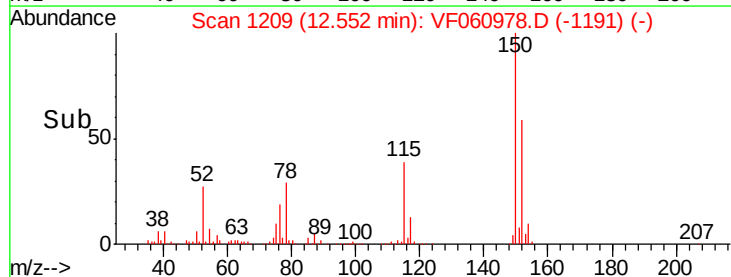
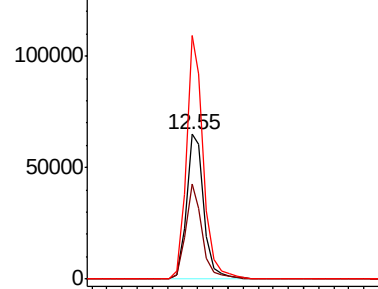


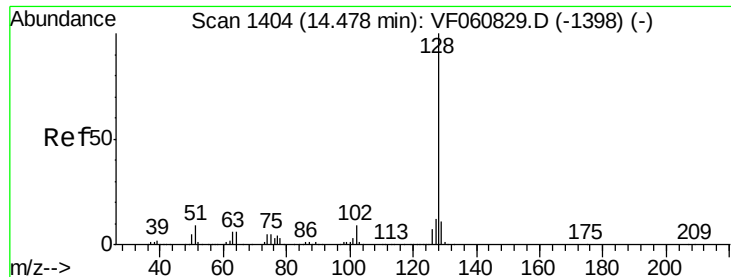
Abundance

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





#95
Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060978.D
Acq: 11 Dec 2018 16:03

Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-A

Tot Ion:128 Resp: 4528
Ion Ratio Lower Upper
128 100
127 16.2 9.9 14.9#
129 3.9 9.1 13.7#

