

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121018\
 Data File : VF060959.D
 Acq On : 10 Dec 2018 17:52
 Operator : VA/AP
 Sample : J6260-07RE
 Misc : 5.05g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 11 04:57:52 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	4.86	168	104441	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	154989	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.78	117	125587	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	55646	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	39911	32.44	ug/l	-0.04
Spiked Amount			Recovery	=	64.88%	
35) Dibromofluoromethane	4.10	113	49654	40.38	ug/l	-0.05
Spiked Amount			Recovery	=	80.76%	
50) Toluene-d8	7.55	98	137072	37.84	ug/l	-0.05
Spiked Amount			Recovery	=	75.68%	
62) 4-Bromofluorobenzene	11.41	95	56443	34.29	ug/l	-0.03
Spiked Amount			Recovery	=	68.58%	

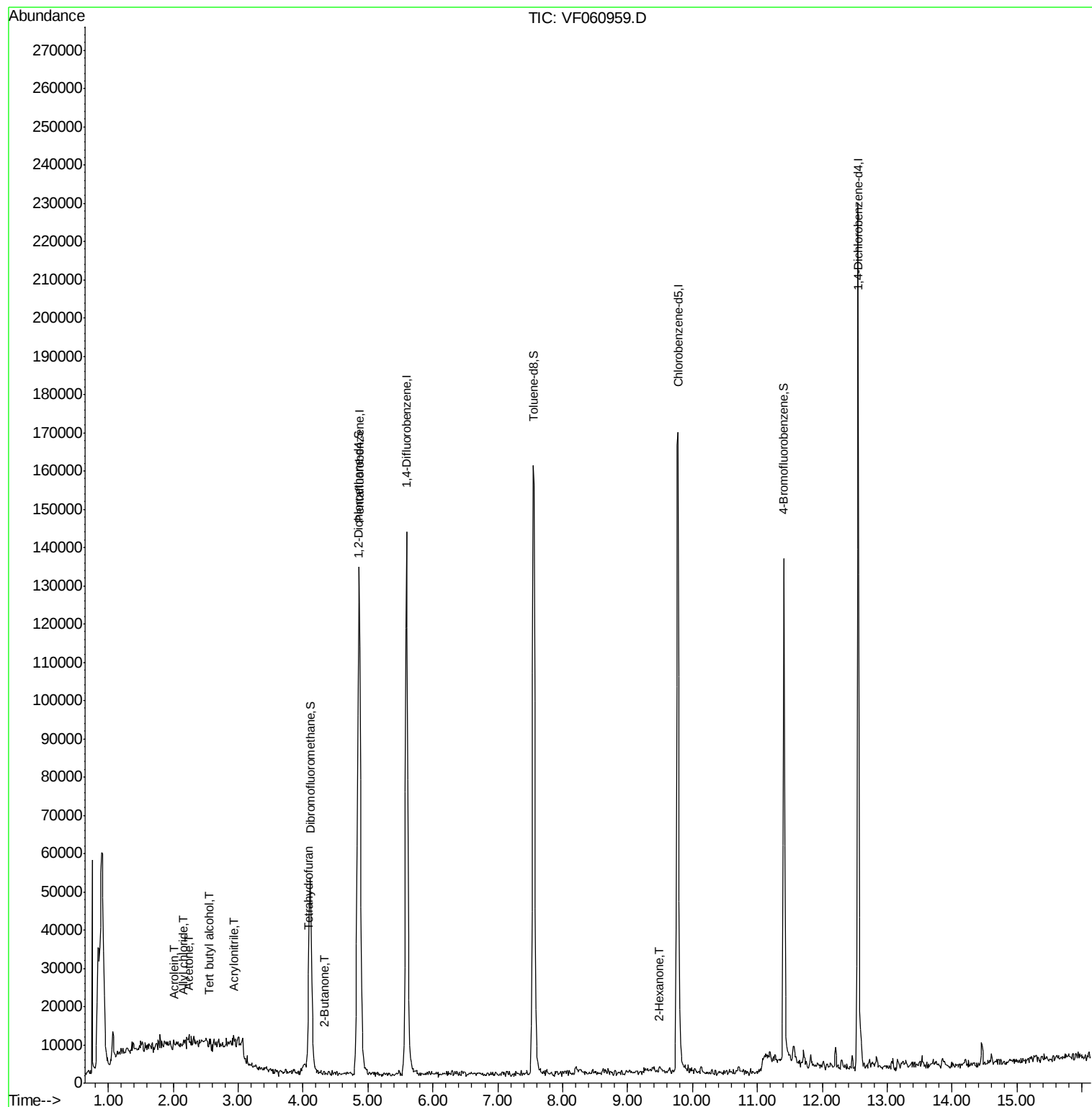
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	83	1.646	ug/l #	1
13) Acrolein	2.02	56	1035	21.659	ug/l	87
14) Allyl chloride	2.16	41	1212	1.176	ug/l #	40
15) Acrylonitrile	2.93	53	423	3.741	ug/l #	69
16) Acetone	2.24	43	1248	5.501	ug/l #	65
25) 2-Butanone	4.33	43	670	1.707	ug/l #	57
29) Tetrahydrofuran	4.08	42	202	1.214	ug/l #	66
41) Methacrylonitrile	4.74	41	361	Below Cal	#	51
43) Isopropyl Acetate	6.93	43	519	Below Cal	#	49
59) 2-Hexanone	9.50	43	1278	2.828	ug/l	96
95) Naphthalene	14.45	128	3031	Below Cal	#	80

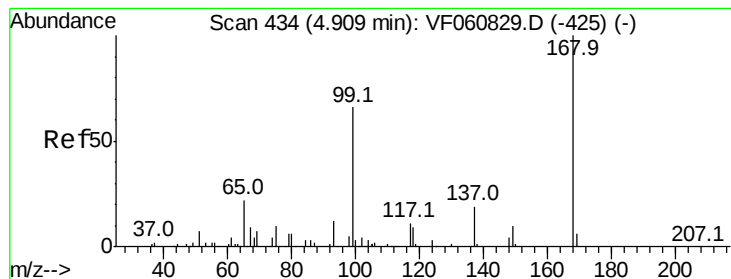
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121018\
Data File : VF060959.D
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Misc : 5.05g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Dec 11 04:57:52 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
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: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

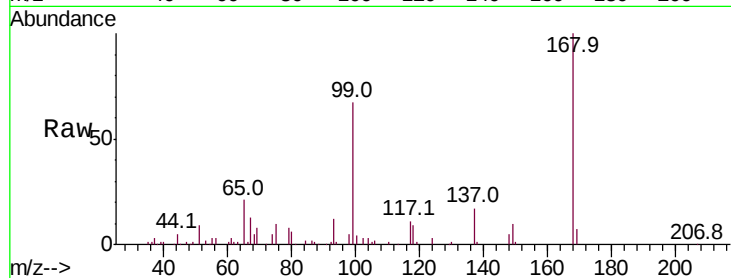
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 104441

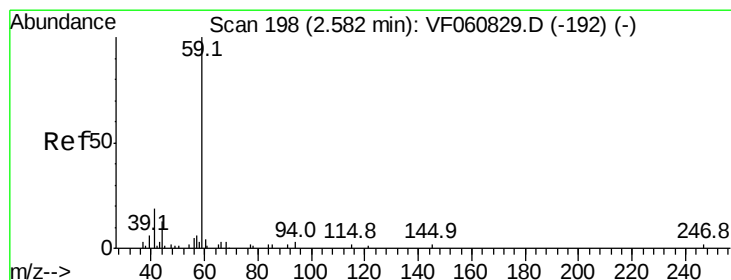
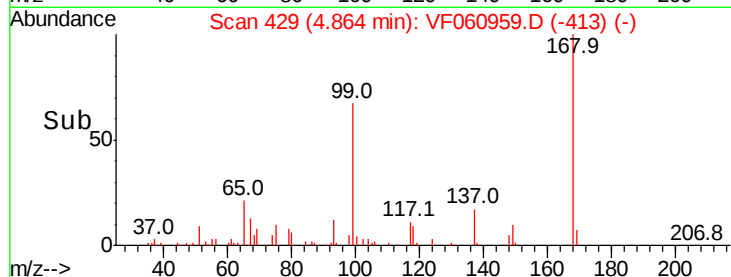
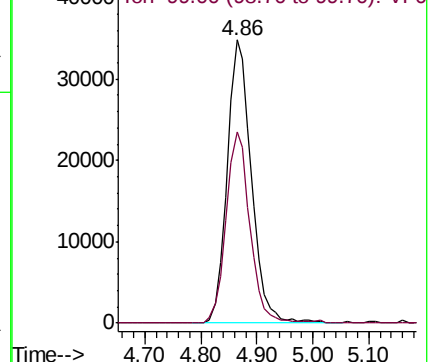
Ion Ratio Lower Upper

168 100

99 67.4 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 1.646 ug/l

RT: 2.57 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF060959.D

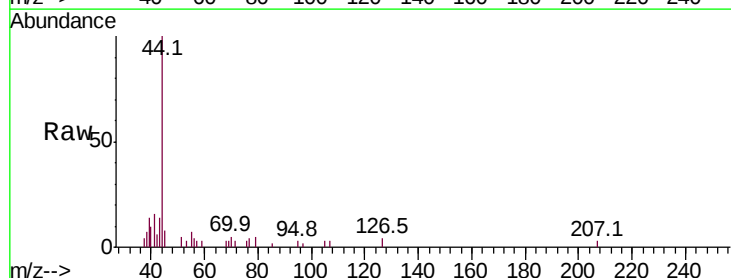
Acq: 10 Dec 2018 17:52

Tgt Ion: 59 Resp: 83

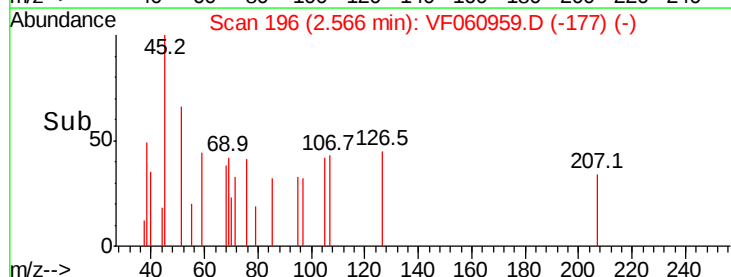
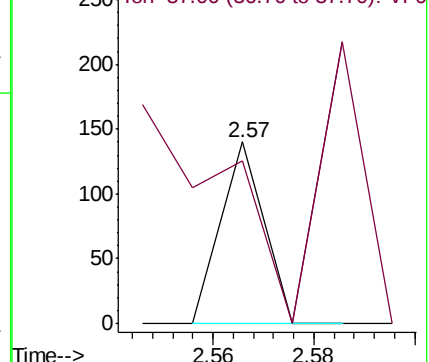
Ion Ratio Lower Upper

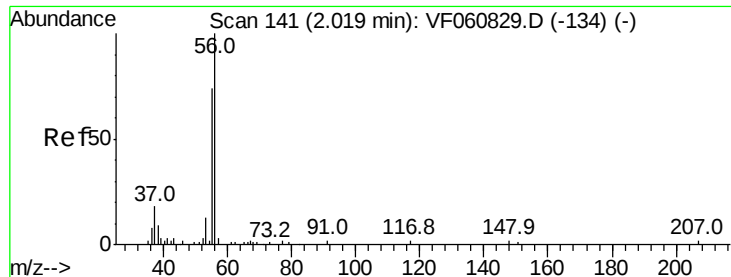
59 100

57 90.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 21.659 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

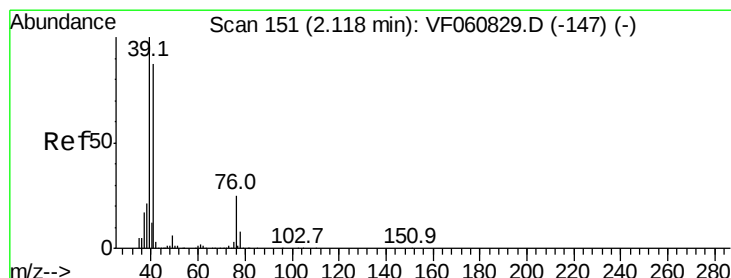
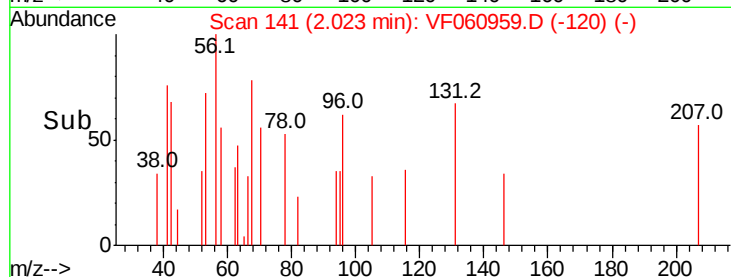
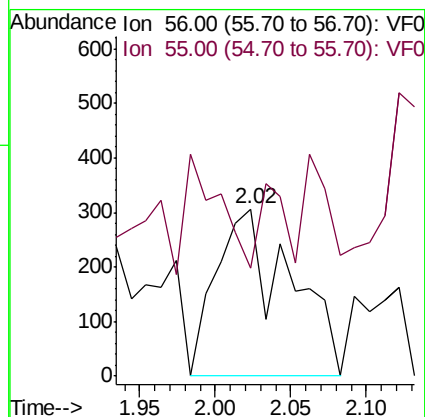
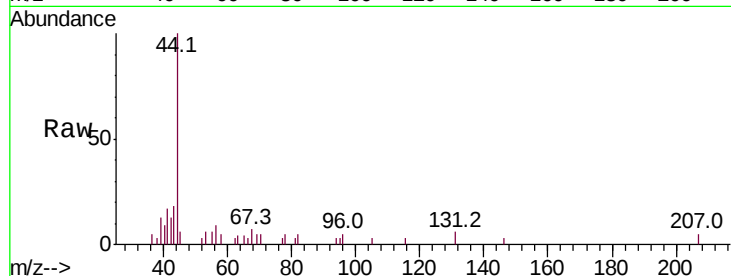
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 1035

Ion Ratio Lower Upper

56 100

55 65.0 61.2 91.8



#14

Allyl chloride

Concen: 1.176 ug/l

RT: 2.16 min Scan# 155

Delta R.T. 0.04 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

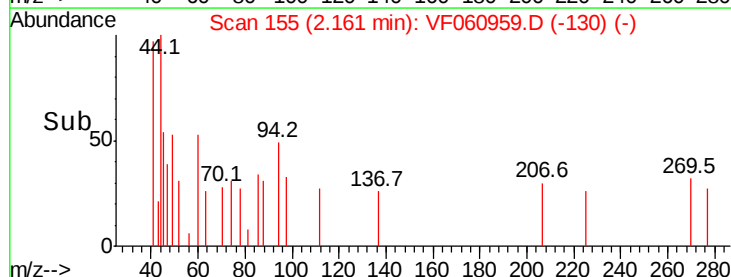
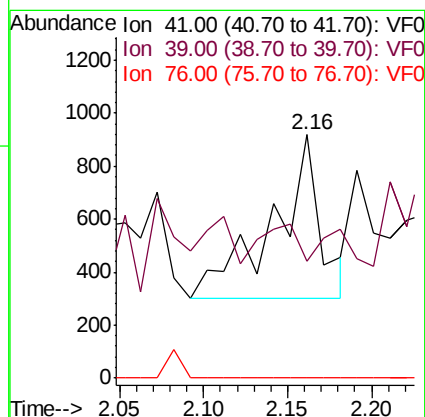
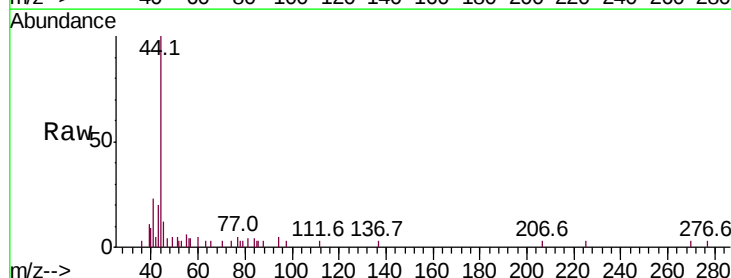
Tgt Ion: 41 Resp: 1212

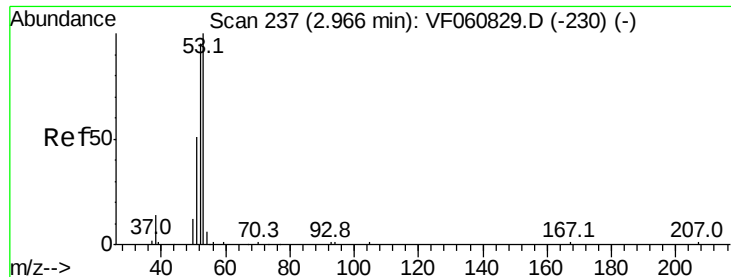
Ion Ratio Lower Upper

41 100

39 47.8 91.7 137.5#

76 0.0 23.5 35.3#





#15

Acrylonitrile

Concen: 3.741 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

Instrument :
MSVOA_F
ClientSampled :

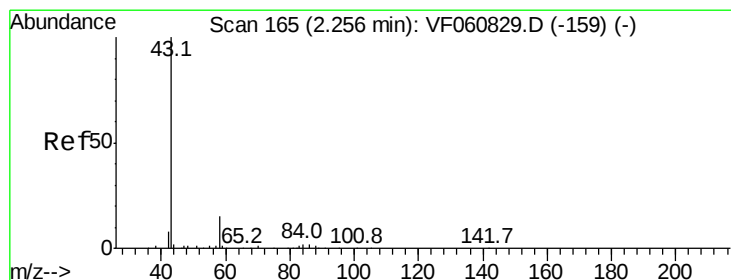
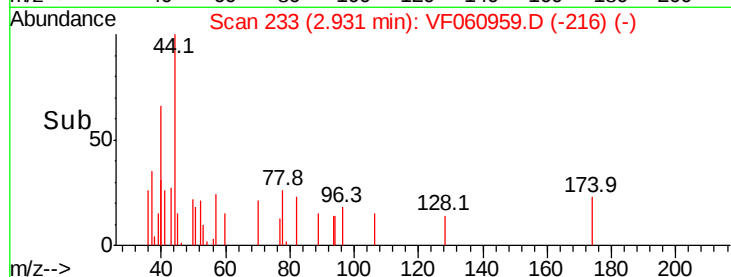
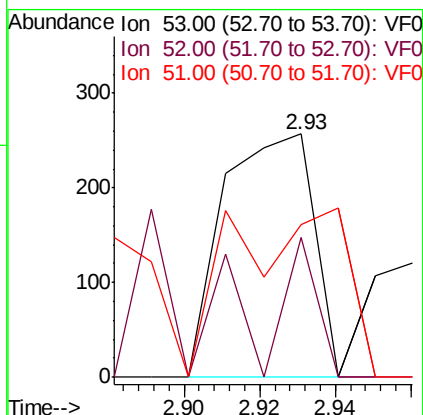
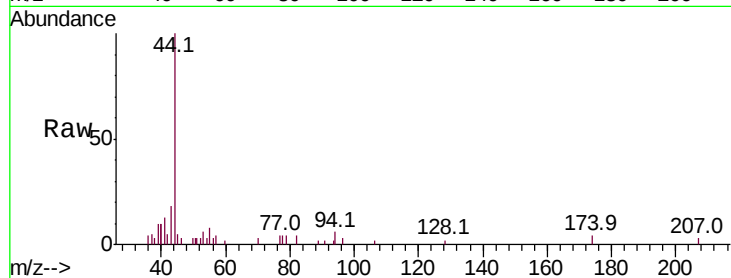
Tot Ion: 53 Resp: 423

Ion Ratio Lower Upper

53 100

52 57.6 76.5 114.7#

51 62.6 40.7 61.1#



#16

Acetone

Concen: 5.501 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060959.D

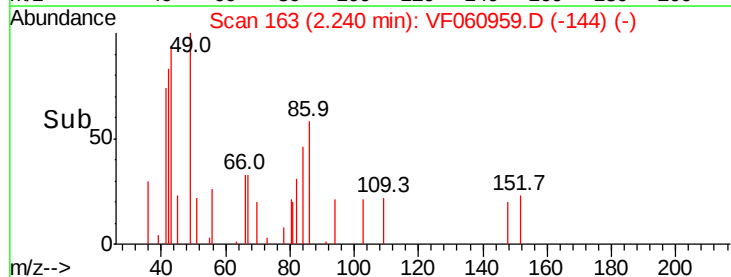
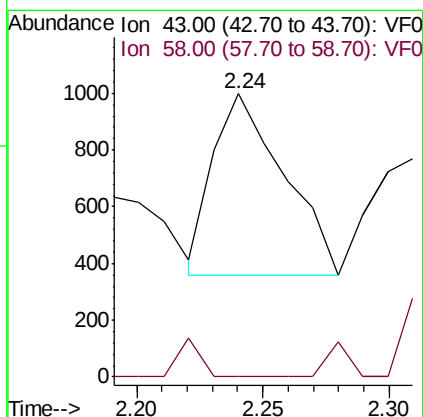
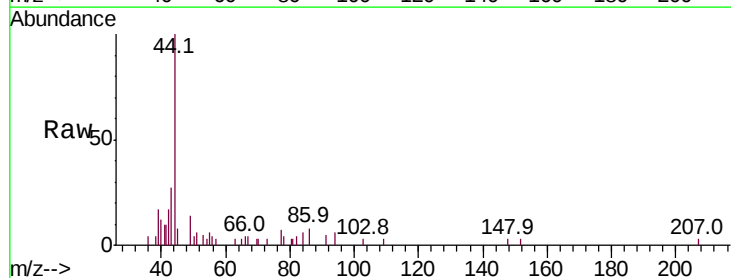
Acq: 10 Dec 2018 17:52

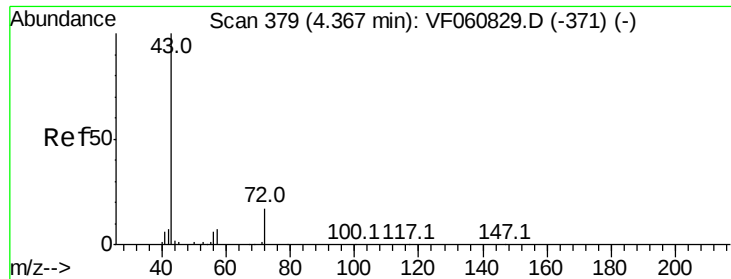
Tgt Ion: 43 Resp: 1248

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#





#25

2-Butanone

Concen: 1.707 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

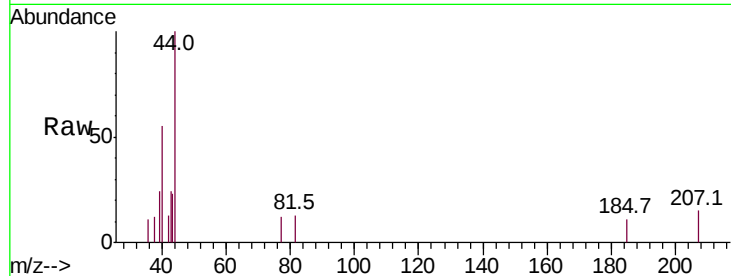
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 670

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.33

400

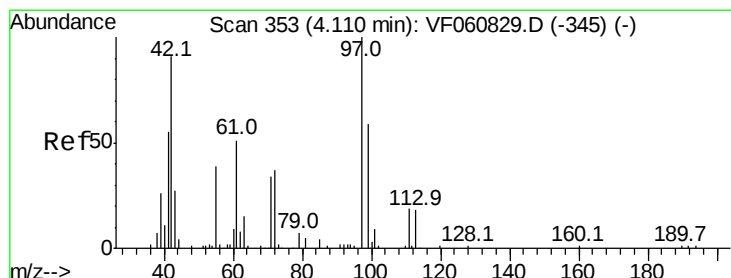
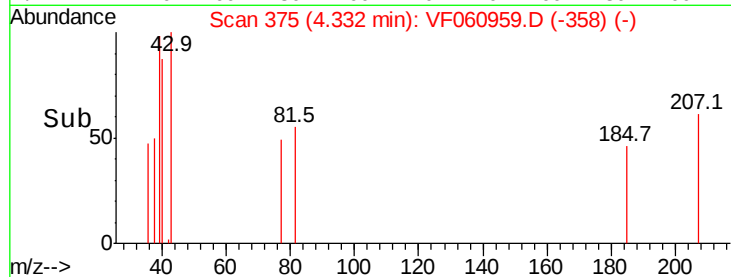
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 1.214 ug/l

RT: 4.08 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

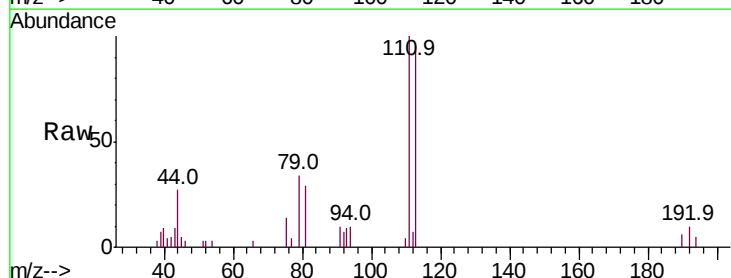
Tgt Ion: 42 Resp: 202

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 35.6 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

250

200

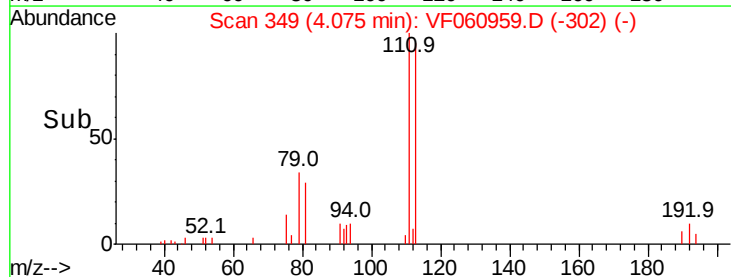
150

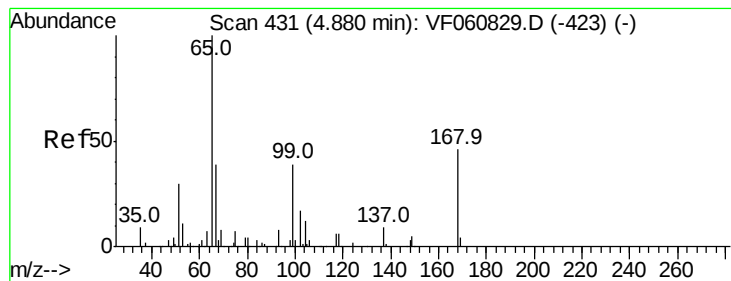
100

50

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 32.439 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

Instrument :

MSVOA_F

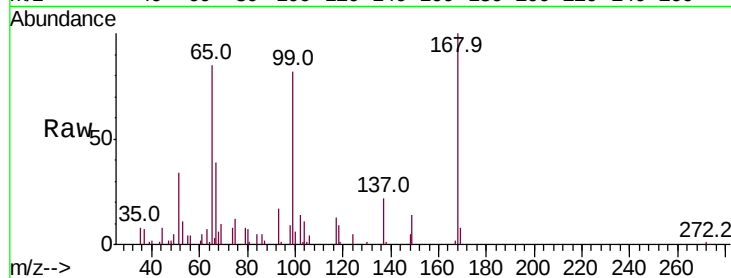
ClientSampled :

Tot Ion: 65 Resp: 39911

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

4.84

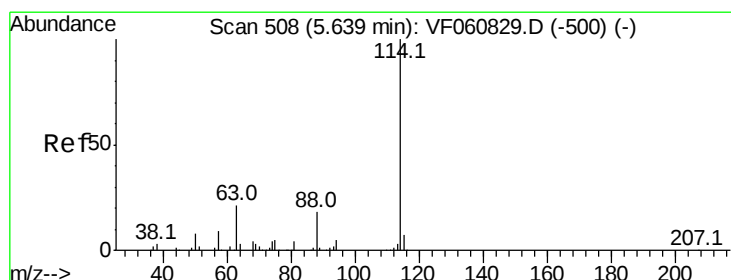
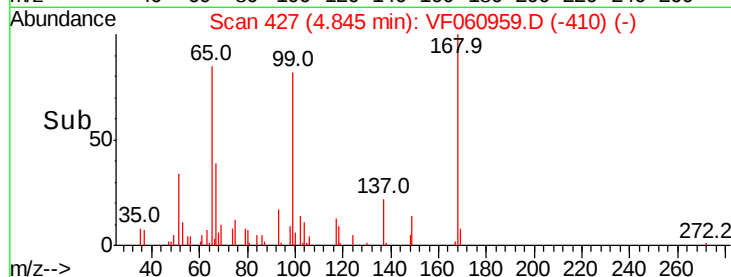
15000

10000

5000

0

Time--> 4.70 4.80 4.90 5.00



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

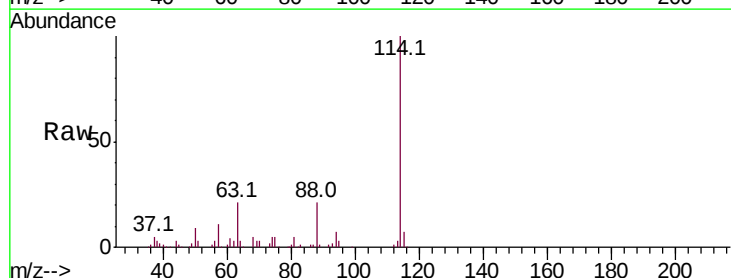
Tgt Ion: 114 Resp: 154989

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.6

88 21.3 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

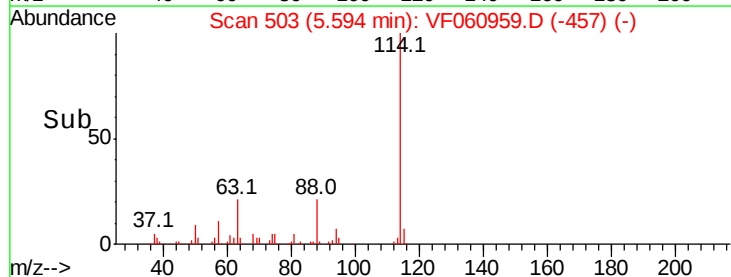
60000

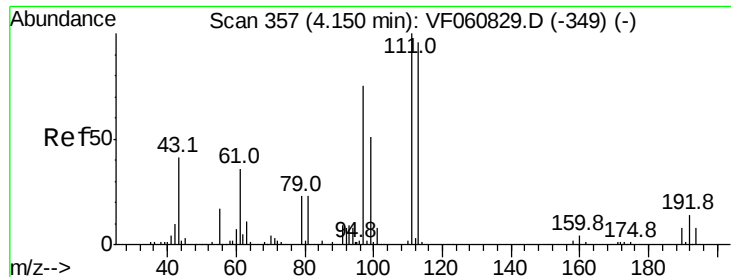
40000

20000

0

Time--> 5.40 5.60 5.80





#35

Dibromofluoromethane

Concen: 40.383 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

Instrument :
MSVOA_F
ClientSampleId :

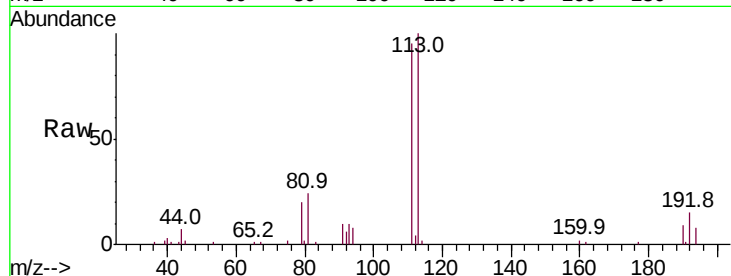
Tot Ion:113 Resp: 49654

Ion Ratio Lower Upper

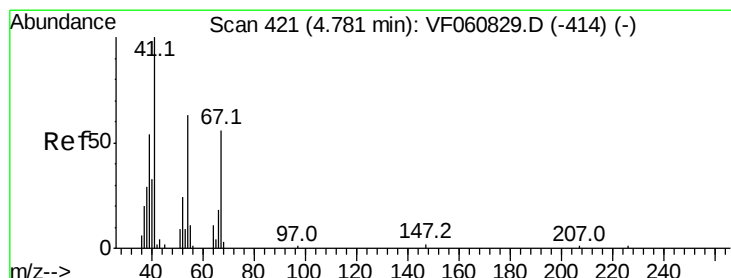
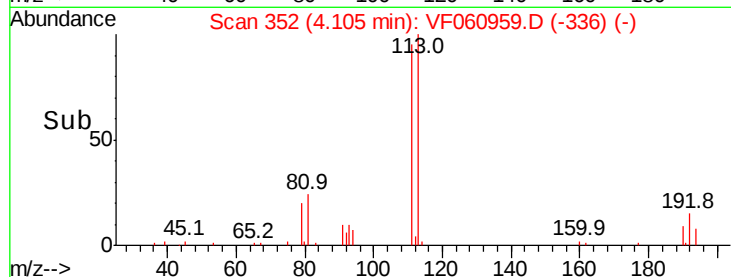
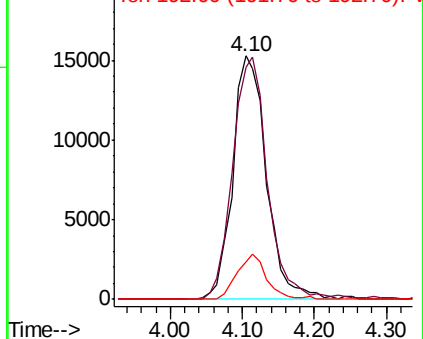
113 100

111 95.5 83.0 124.6

192 15.5 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: 4.74 min Scan# 416

Delta R.T. -0.04 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

Tgt Ion: 41 Resp: 361

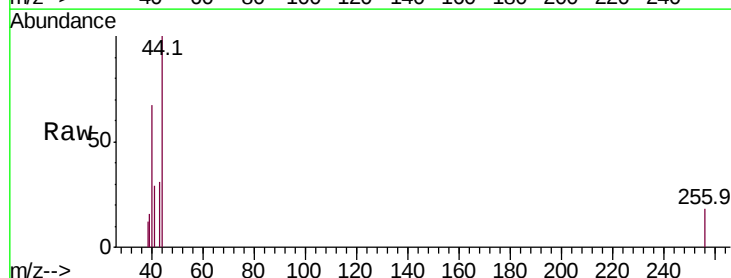
Ion Ratio Lower Upper

41 100

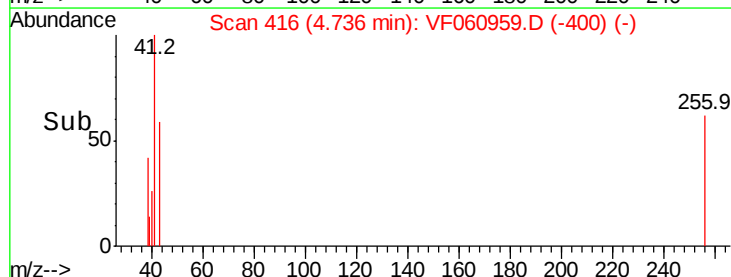
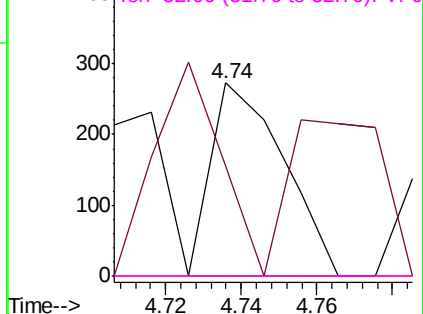
39 56.8 53.0 79.6

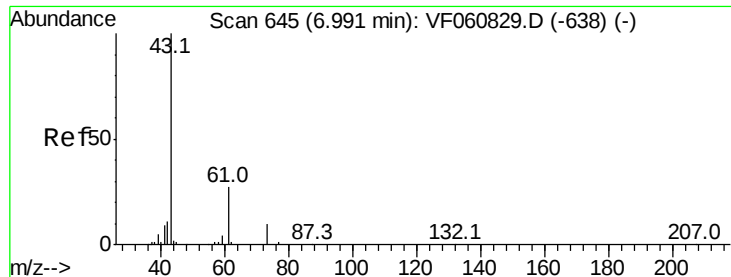
67 0.0 43.8 65.6#

52 0.0 37.8 56.8#



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



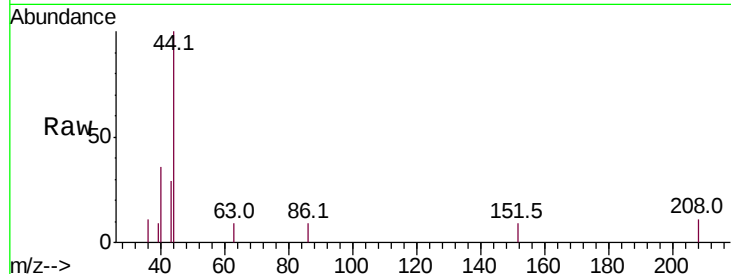


#43

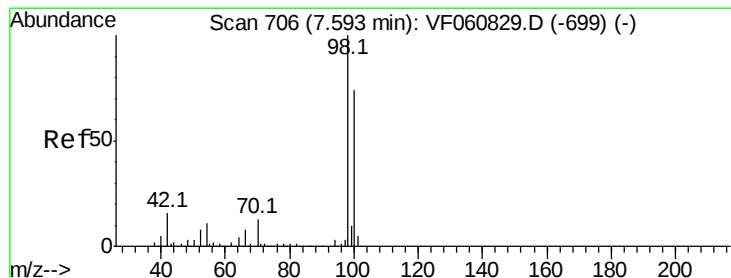
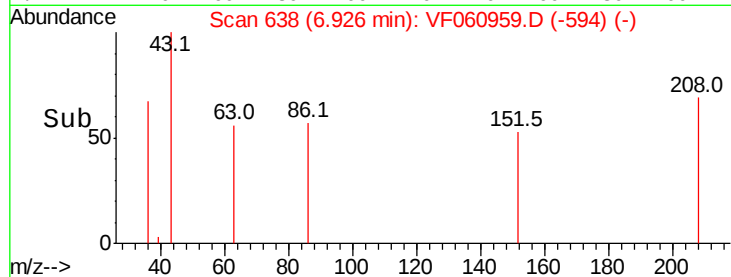
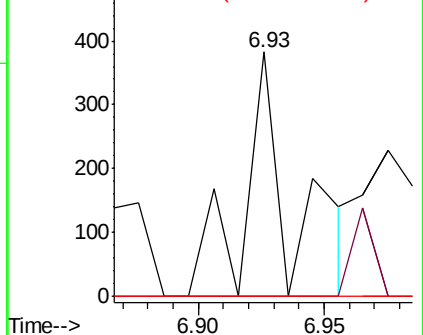
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.93 min Scan# 638
 Delta R.T. -0.06 min
 Lab File: VF060959.D
 Acq: 10 Dec 2018 17:52

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 519
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



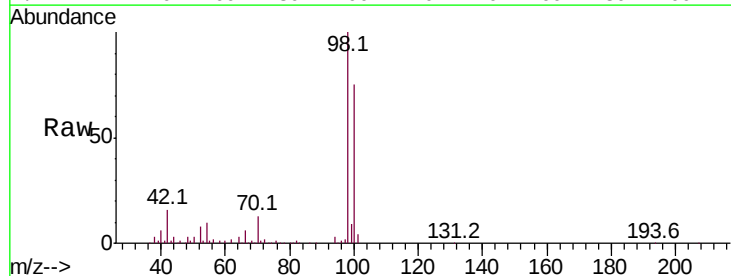
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



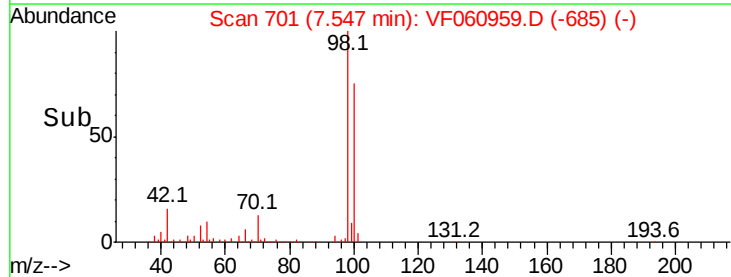
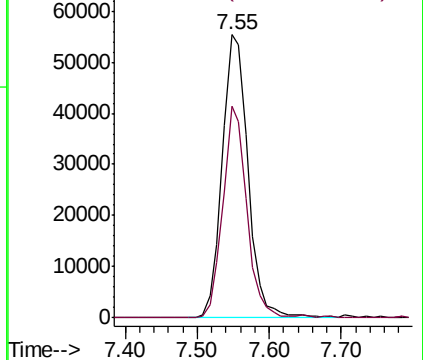
#50

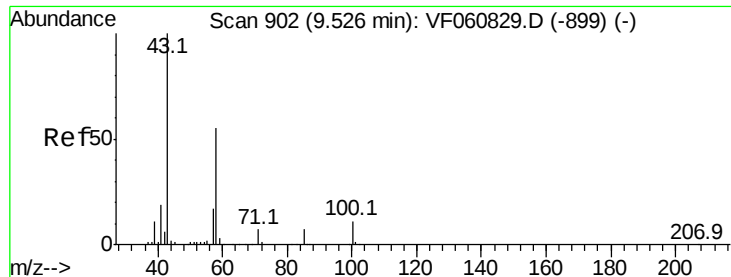
Toluene-d8
 Concen: 37.845 ug/l
 RT: 7.55 min Scan# 701
 Delta R.T. -0.05 min
 Lab File: VF060959.D
 Acq: 10 Dec 2018 17:52

Tgt Ion: 98 Resp: 137072
 Ion Ratio Lower Upper
 98 100
 100 75.0 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
 Ion 100.00 (99.70 to 100.70): VF0

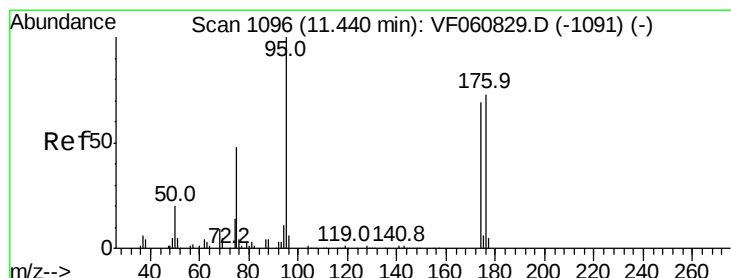
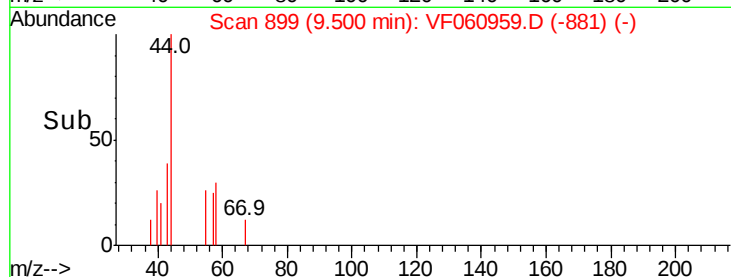
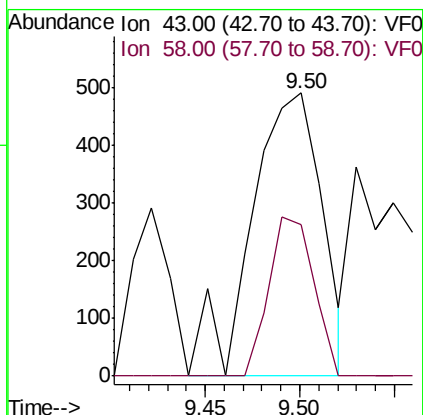
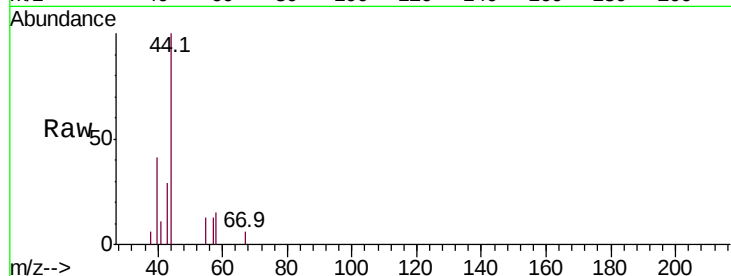




#59
2-Hexanone
Concen: 2.828 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060959.D
Acq: 10 Dec 2018 17:52

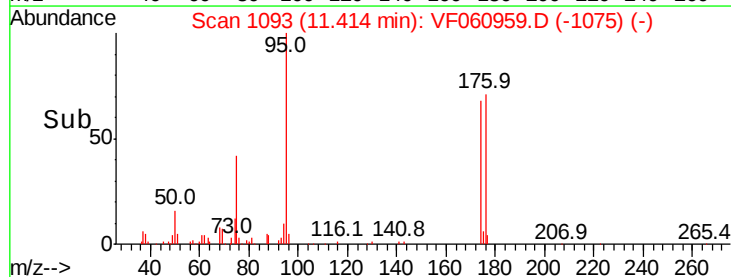
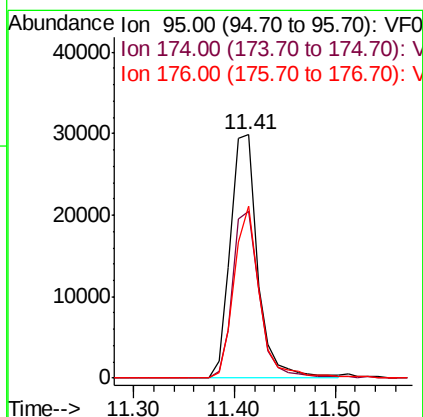
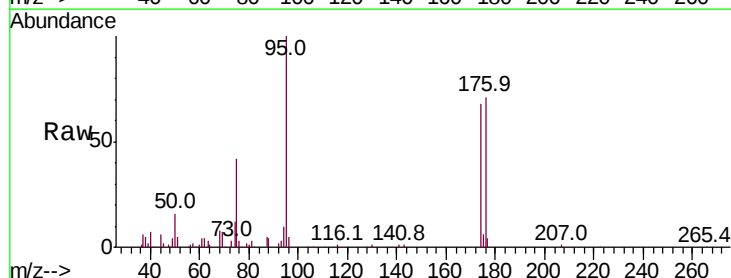
Instrument :
MSVOA_F
ClientSampled :

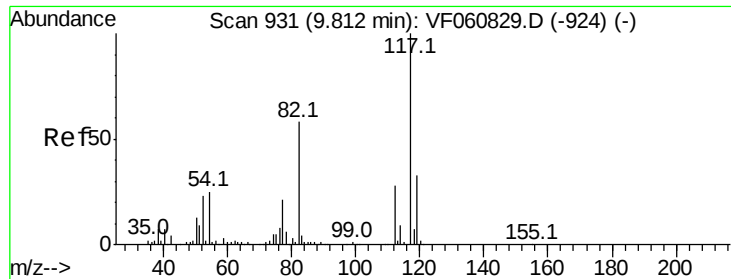
Tot Ion: 43 Resp: 1278
Ion Ratio Lower Upper
43 100
58 53.7 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 34.289 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF060959.D
Acq: 10 Dec 2018 17:52

Tgt Ion: 95 Resp: 56443
Ion Ratio Lower Upper
95 100
174 68.5 0.0 138.2
176 70.5 0.0 146.2

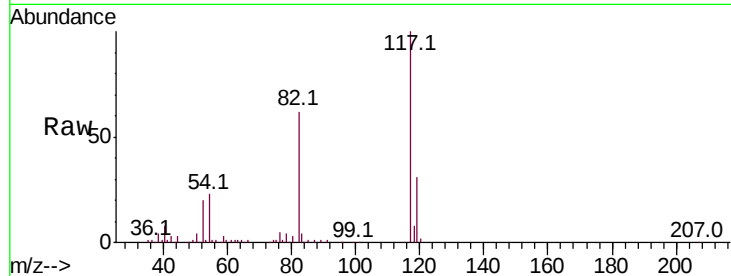




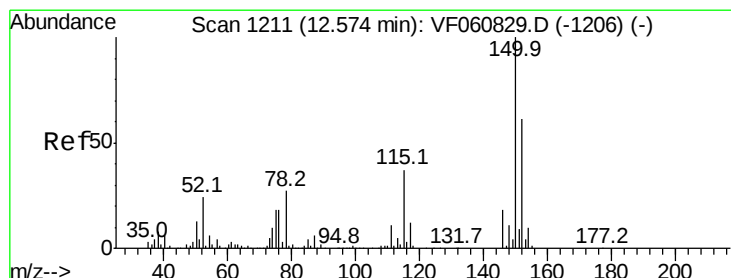
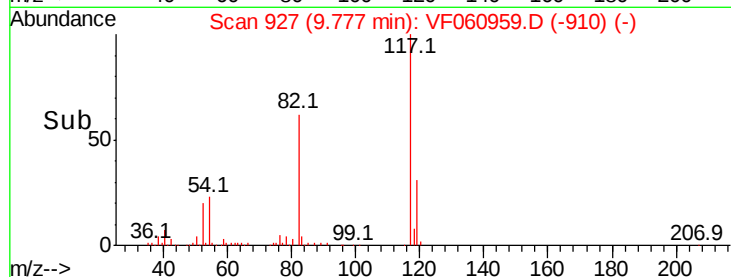
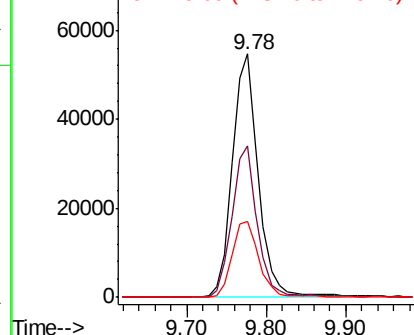
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060959.D
Acq: 10 Dec 2018 17:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 125587
Ion Ratio Lower Upper
117 100
82 62.2 46.6 69.8
119 31.2 26.4 39.6

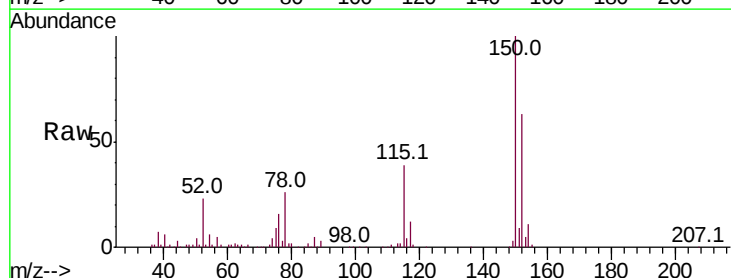


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

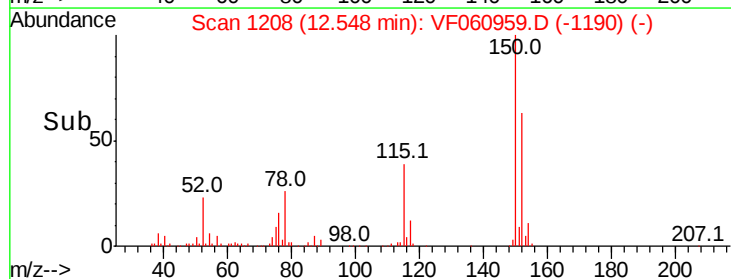
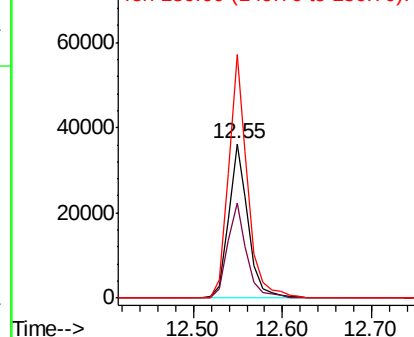


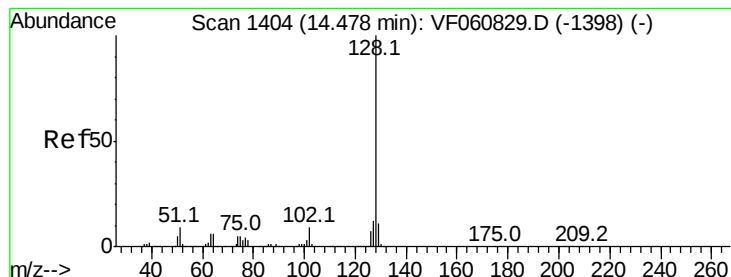
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF060959.D
Acq: 10 Dec 2018 17:52

Tgt Ion:152 Resp: 55646
Ion Ratio Lower Upper
152 100
115 61.3 30.1 90.5
150 158.0 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: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF060959.D

Acq: 10 Dec 2018 17:52

Instrument :

MSVOA_F

ClientSampleId :

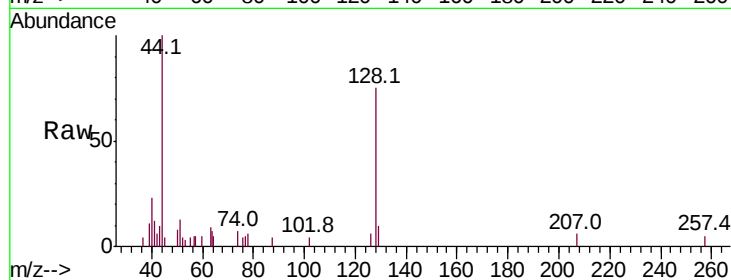
Tot Ion:128 Resp: 3031

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 13.8 9.1 13.7#



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

