

Data File : VF060697.D
Acq On : 12 Nov 2018 21:27
Operator : VA/AP
Sample : J5907-11RE
Misc : 7.29g/5mL/MSVOA-F/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
TP-3-DRE

Quant Time: Nov 13 04:19:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	24011	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	28584	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	18426	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	4584	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	3944	16.26	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	32.52%	
35) Dibromofluoromethane	4.10	113	5673	25.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.38%	
50) Toluene-d8	7.55	98	24810	37.92	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	75.84%	
62) 4-Bromofluorobenzene	11.40	95	5877	20.54	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	41.08%	

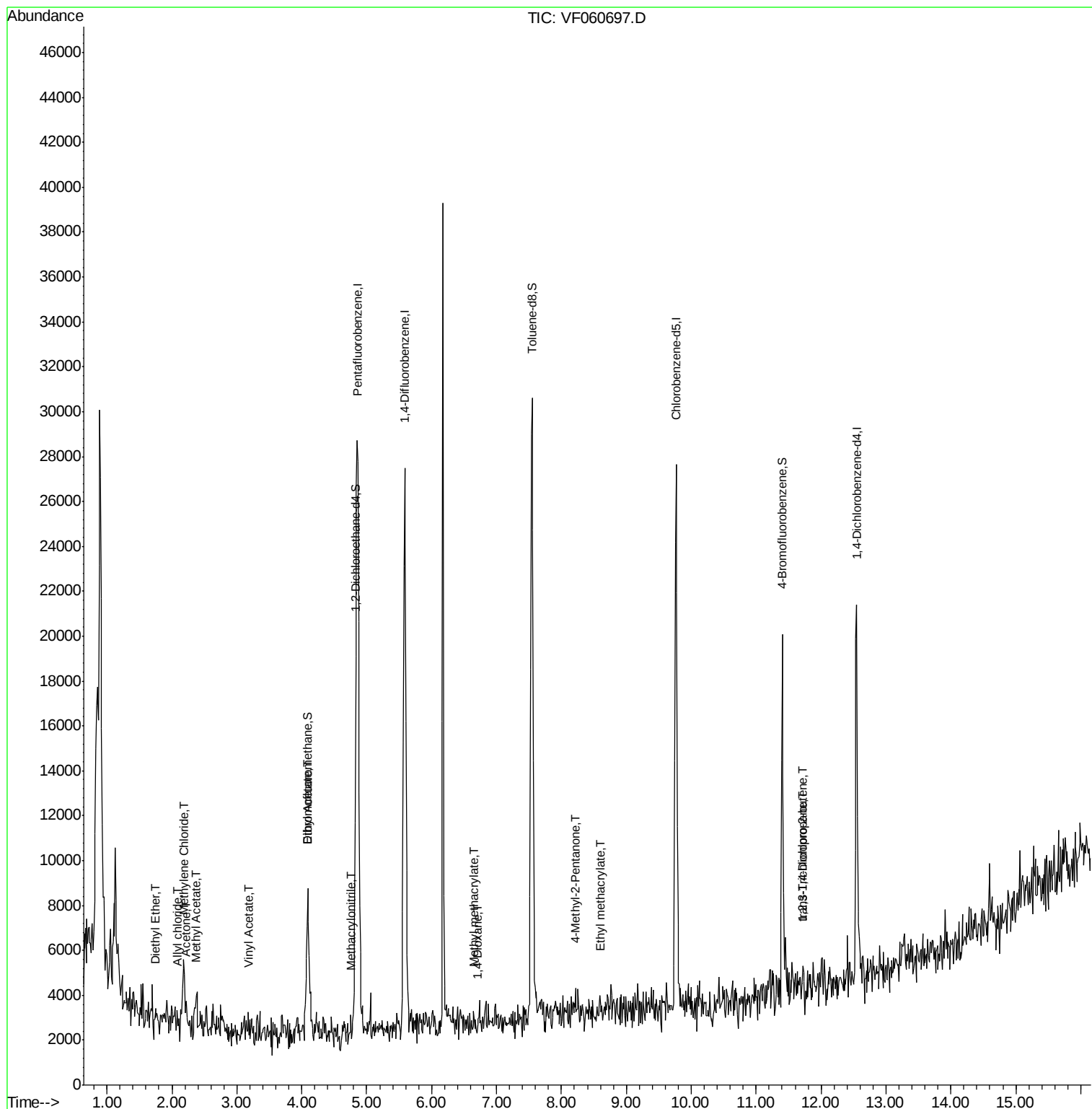
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	0.95	85	70	Below Cal	#	41
8) Diethyl Ether	1.74	74	78	1.161 ug/l	#	1
11) Tert butyl alcohol	2.54	59	75	Below Cal	#	52
13) Acrolein	1.95	56	152	Below Cal		83
14) Allyl chloride	2.08	41	649	2.279 ug/l	#	54
16) Acetone	2.22	43	838	14.659 ug/l	#	59
18) Methyl Acetate	2.36	43	826	9.692 ug/l	#	64
20) Methylene Chloride	2.18	84	1196	1.787 ug/l	#	79
23) Vinyl Acetate	3.19	43	906	2.499 ug/l	#	75
25) 2-Butanone	4.33	43	894	Below Cal	#	56
29) Tetrahydrofuran	4.05	42	255	Below Cal	#	36
37) Ethyl Acetate	4.09	43	207	1.370 ug/l	#	17
41) Methacrylonitrile	4.76	41	246	2.875 ug/l	#	54
48) Methyl methacrylate	6.65	41	1097	9.133 ug/l	#	46
49) 1,4-Dioxane	6.70	88	95	75.610 ug/l	#	50
51) 4-Methyl-2-Pentanone	8.22	43	910	7.081 ug/l	#	37
56) Ethyl methacrylate	8.59	69	304	1.632 ug/l	#	52
59) 2-Hexanone	9.45	43	417	Below Cal	#	26
74) N-amyl acetate	11.34	43	162	Below Cal	#	47
76) 1,2,3-Trichloropropane	11.72	75	66	2.058 ug/l	#	40
81) trans-1,4-Dichloro-2-buten	11.72	75	66	2.619 ug/l	#	23
89) n-Butylbenzene	12.74	91	76	Below Cal	#	25

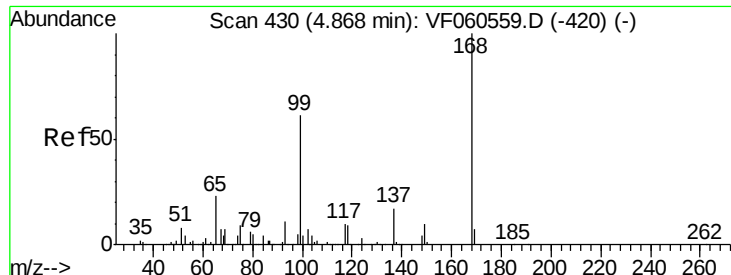
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

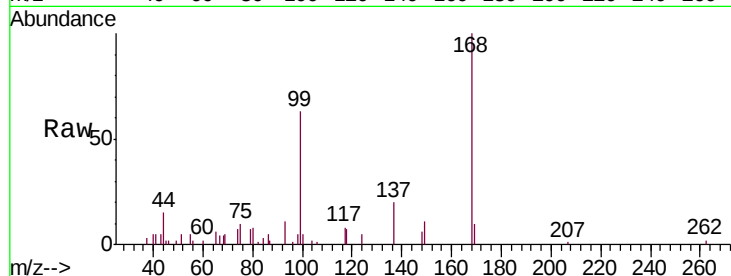
TP-3-DRE

Tgt Ion:168 Resp: 24011

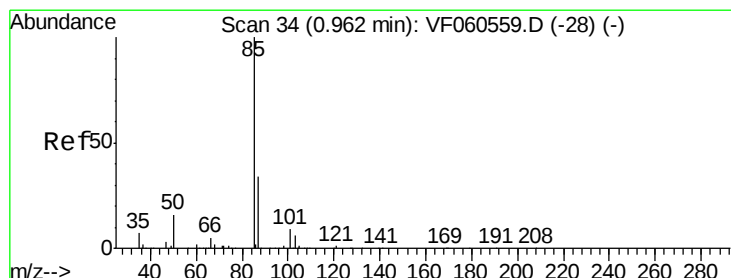
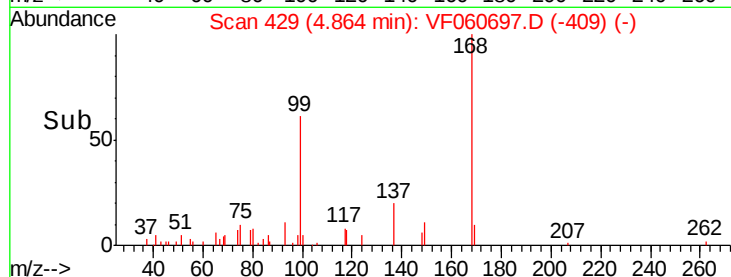
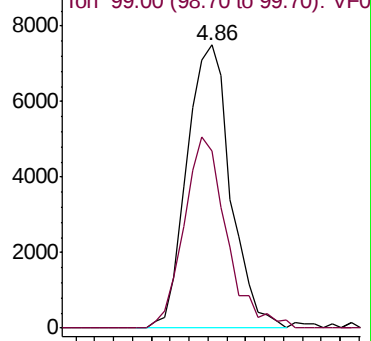
Ion Ratio Lower Upper

168 100

99 62.5 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.95 min Scan# 32

Delta R.T. -0.01 min

Lab File: VF060697.D

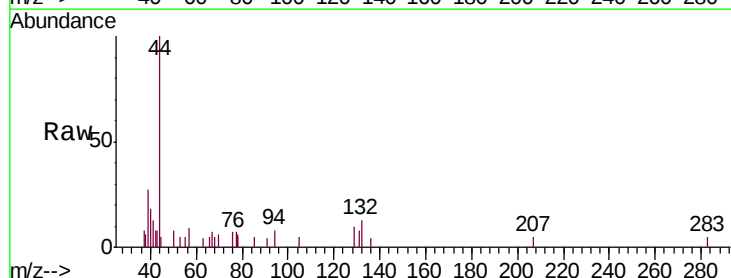
Acq: 12 Nov 2018 21:27

Tgt Ion: 85 Resp: 70

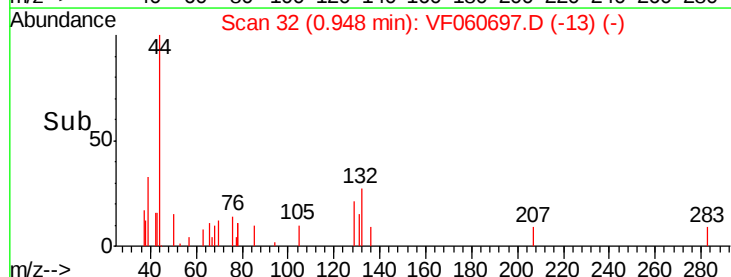
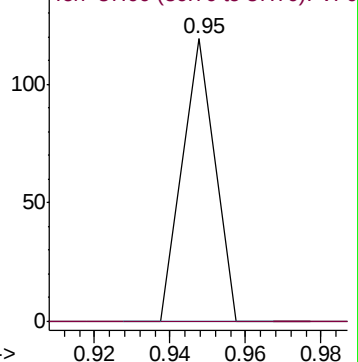
Ion Ratio Lower Upper

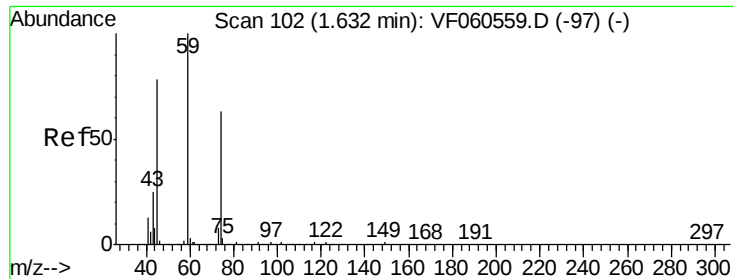
85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

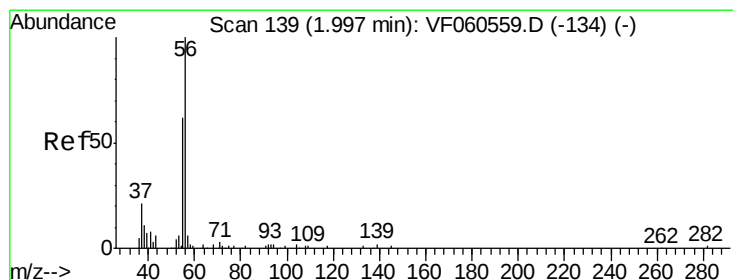
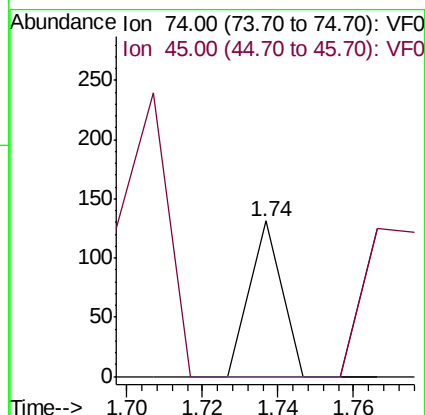
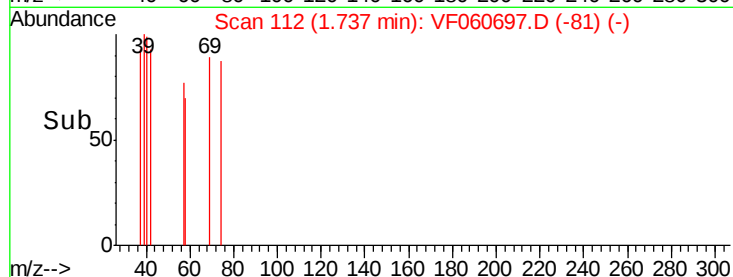
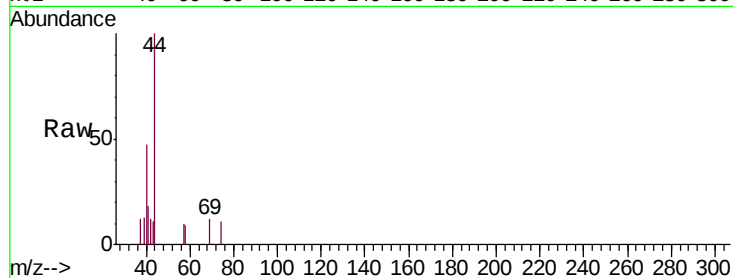




#8
Diethyl Ether
Concen: 1.161 ug/l
RT: 1.74 min Scan# 112
Delta R.T. 0.10 min
Lab File: VF060697.D
Acq: 12 Nov 2018 21:27

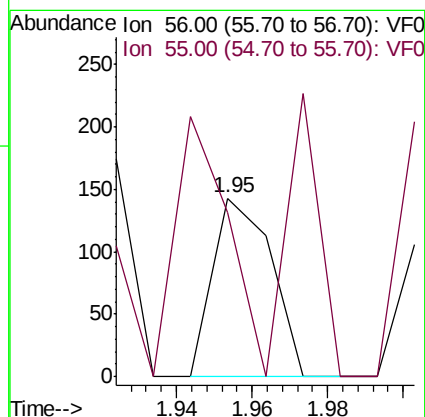
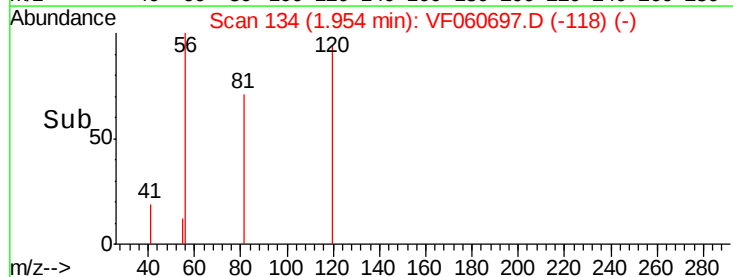
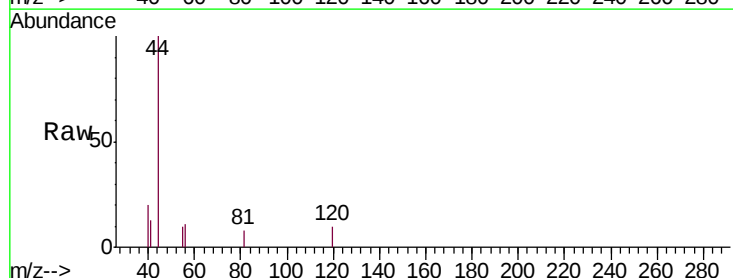
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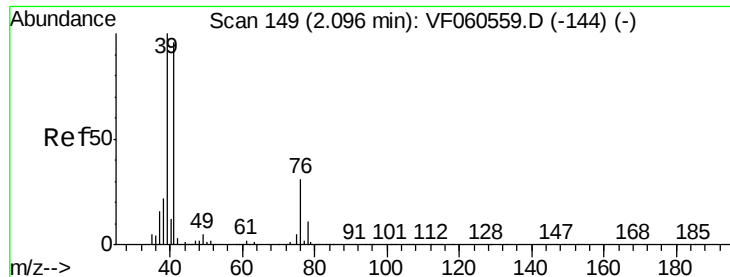
Tgt Ion: 74 Resp: 78
Ion Ratio Lower Upper
74 100
45 0.0 63.8 191.5#



#13
Acrolein
Concen: Below Cal
RT: 1.95 min Scan# 134
Delta R.T. -0.04 min
Lab File: VF060697.D
Acq: 12 Nov 2018 21:27

Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 92.3 61.8 92.6

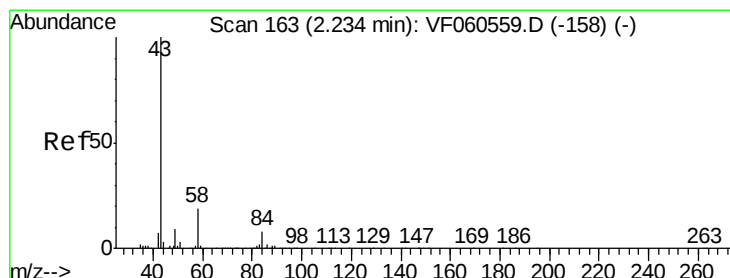
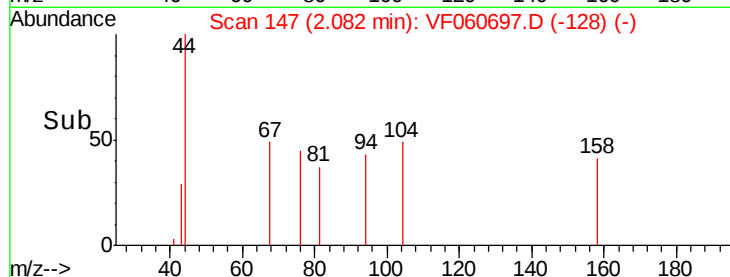
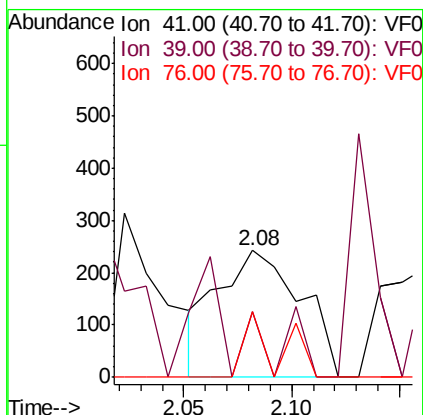
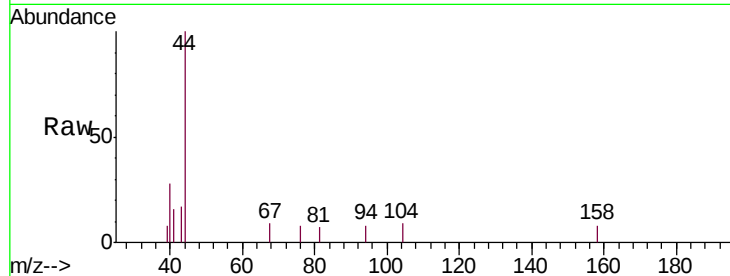




#14
 Allyl chloride
 Concen: 2.279 ug/l
 RT: 2.08 min Scan# 147
 Delta R.T. -0.01 min
 Lab File: VF060697.D
 Acq: 12 Nov 2018 21:27

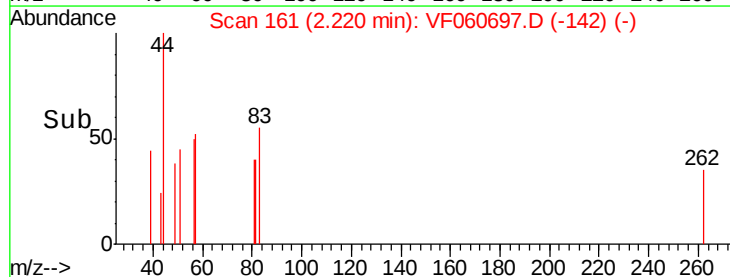
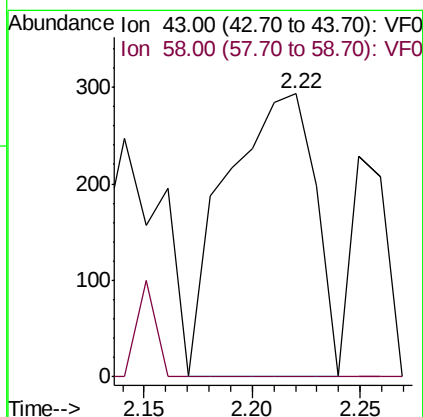
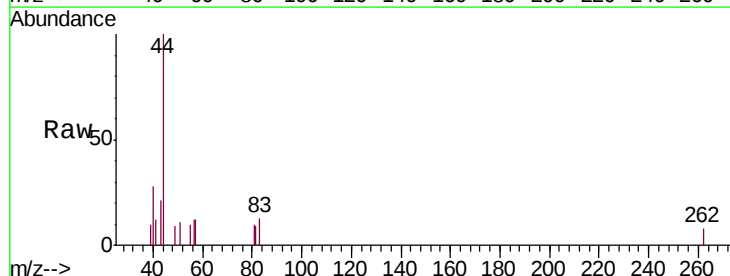
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-3-DRE

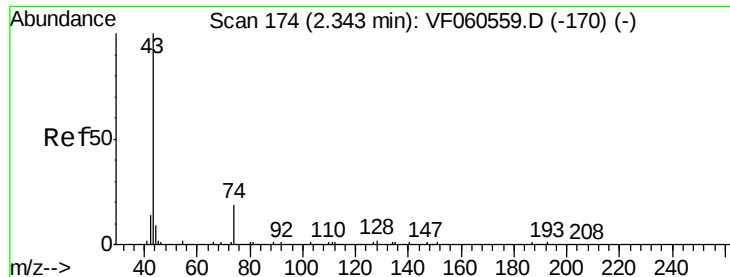
Tgt Ion: 41 Resp: 649
 Ion Ratio Lower Upper
 41 100
 39 52.1 82.6 124.0#
 76 52.1 26.7 40.1#



#16
 Acetone
 Concen: 14.659 ug/l
 RT: 2.22 min Scan# 161
 Delta R.T. -0.01 min
 Lab File: VF060697.D
 Acq: 12 Nov 2018 21:27

Tgt Ion: 43 Resp: 838
 Ion Ratio Lower Upper
 43 100
 58 0.0 14.6 22.0#

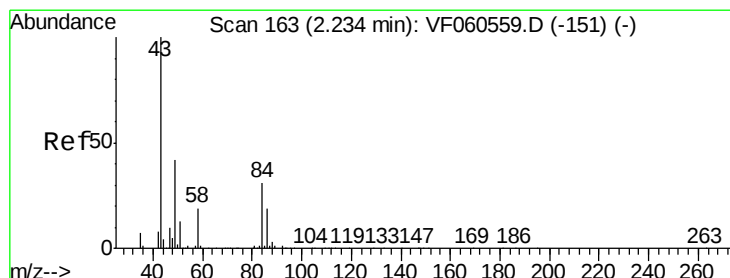
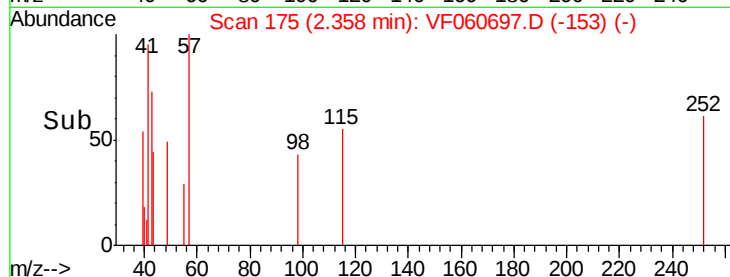
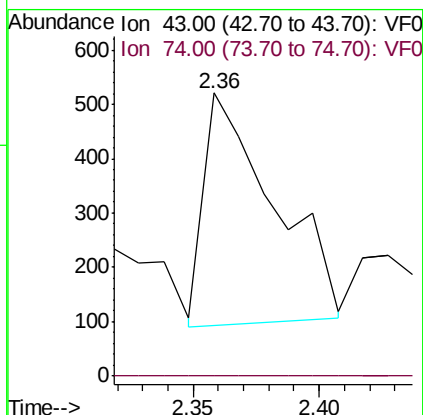
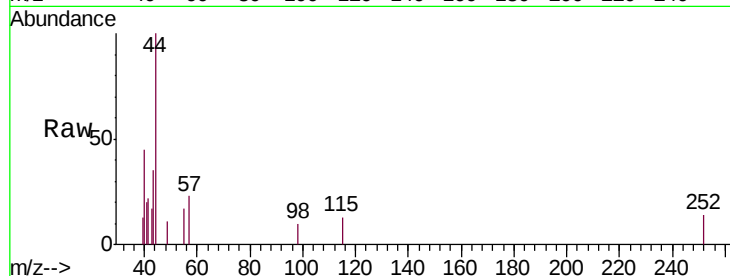




#18
Methyl Acetate
Concen: 9.692 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF060697.D
Acq: 12 Nov 2018 21:27

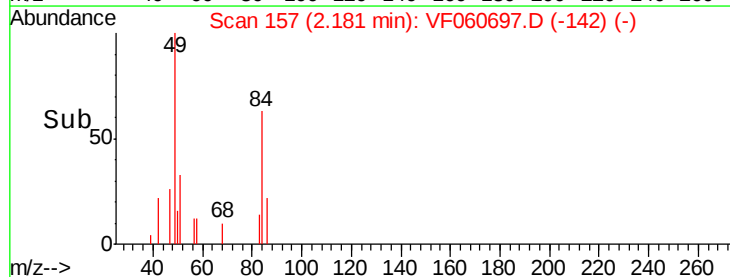
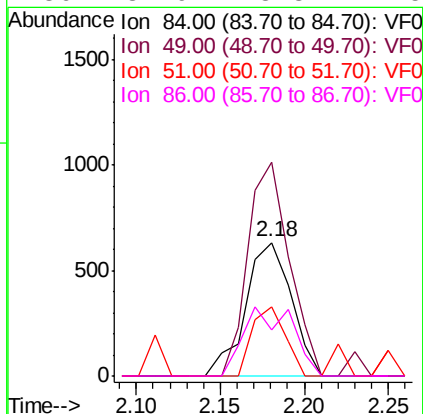
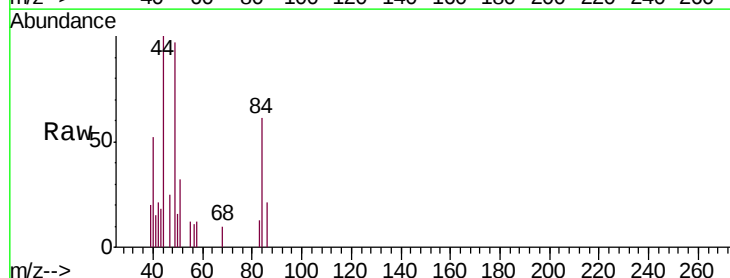
Instrument :
MSVOA_F
ClientSampleId :
TP-3-DRE

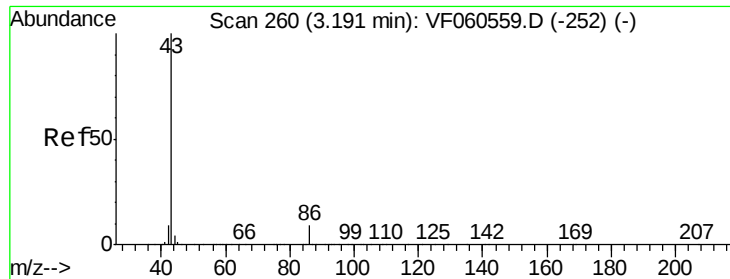
Tgt Ion: 43 Resp: 826
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 1.787 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.05 min
Lab File: VF060697.D
Acq: 12 Nov 2018 21:27

Tgt Ion: 84 Resp: 1196
Ion Ratio Lower Upper
84 100
49 159.9 109.9 164.9
51 52.1 35.8 53.8
86 34.9 48.3 72.5#





#23

Vinyl Acetate

Concen: 2.499 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

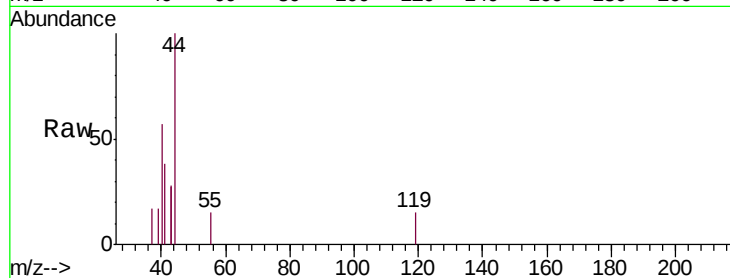
TP-3-DRE

Tgt Ion: 43 Resp: 906

Ion Ratio Lower Upper

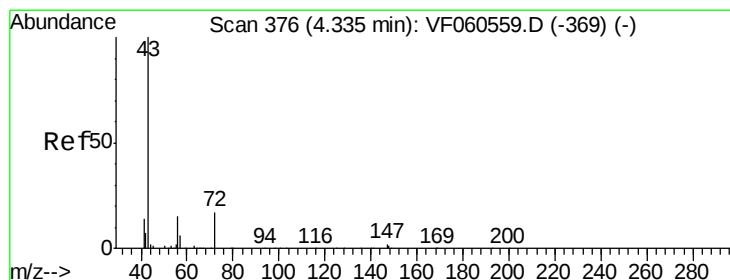
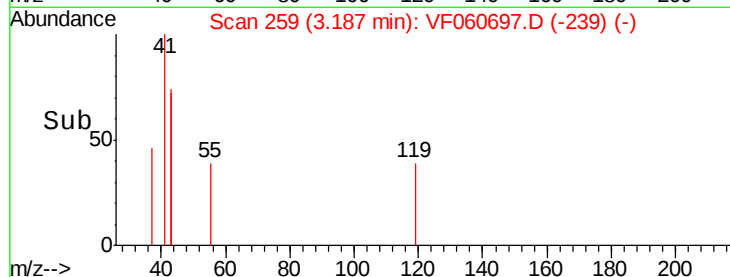
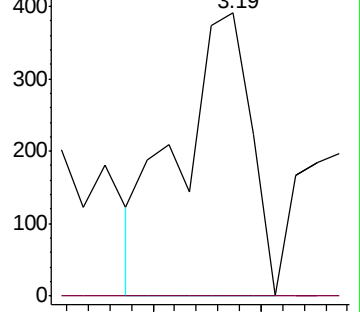
43 100

86 0.0 7.1 10.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: Below Cal

RT: 4.33 min Scan# 375

Delta R.T. -0.00 min

Lab File: VF060697.D

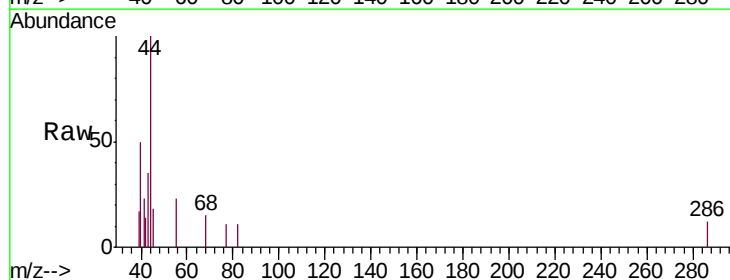
Acq: 12 Nov 2018 21:27

Tgt Ion: 43 Resp: 894

Ion Ratio Lower Upper

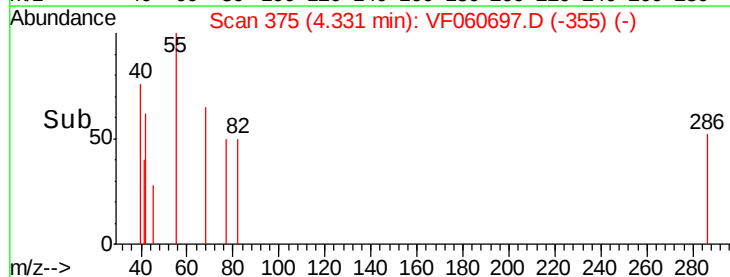
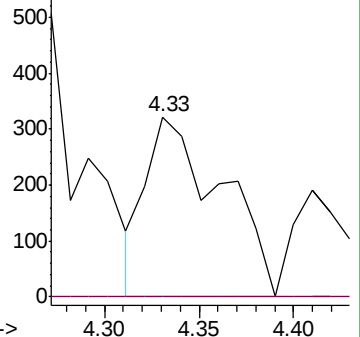
43 100

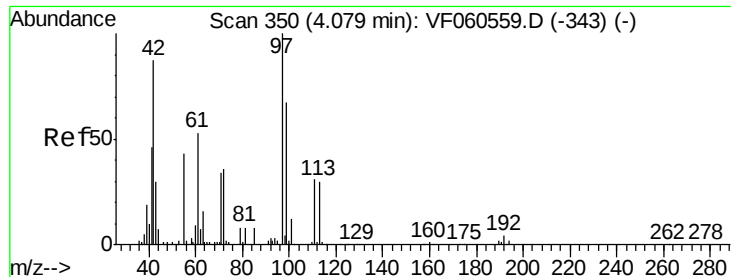
72 0.0 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.05 min Scan# 347

Delta R.T. -0.02 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

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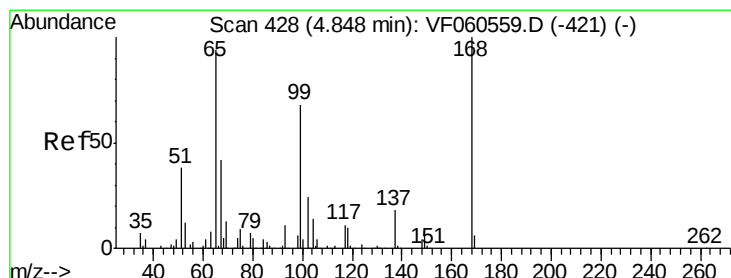
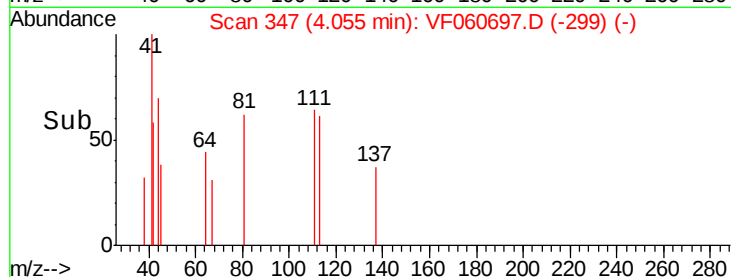
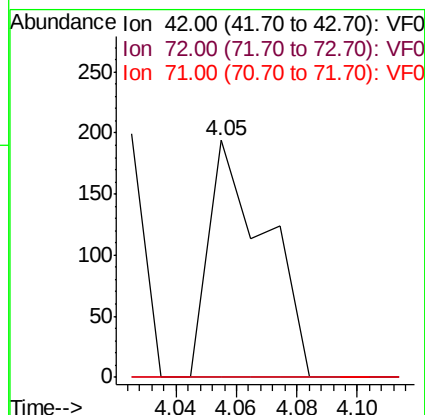
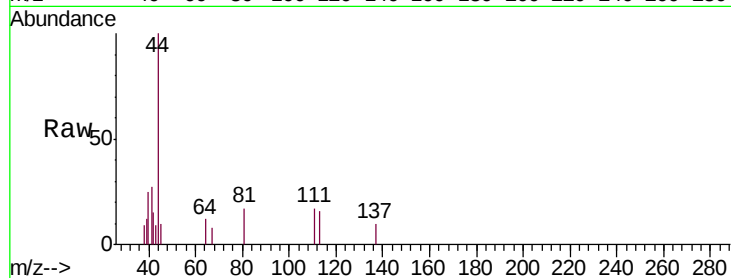
Tgt Ion: 42 Resp: 255

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.8 47.6#



#33

1,2-Dichloroethane-d4

Concen: 16.257 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.02 min

Lab File: VF060697.D

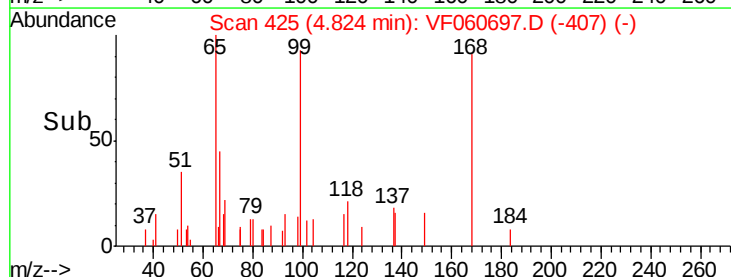
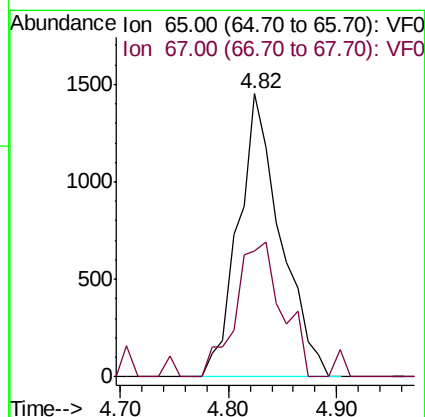
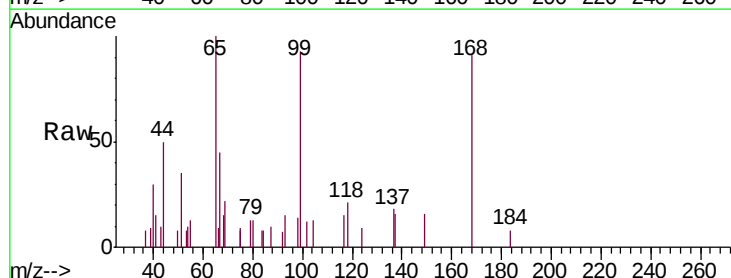
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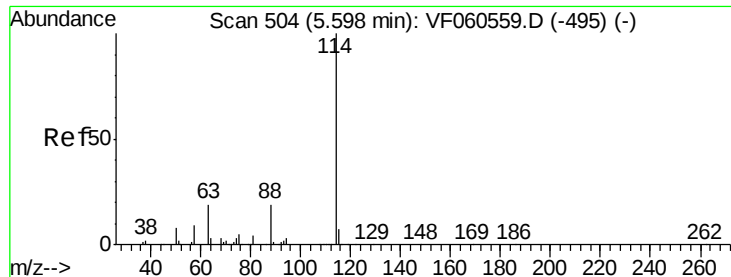
Tgt Ion: 65 Resp: 3944

Ion Ratio Lower Upper

65 100

67 44.6 0.0 101.8

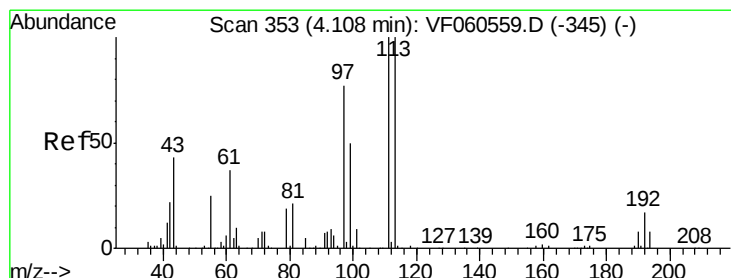
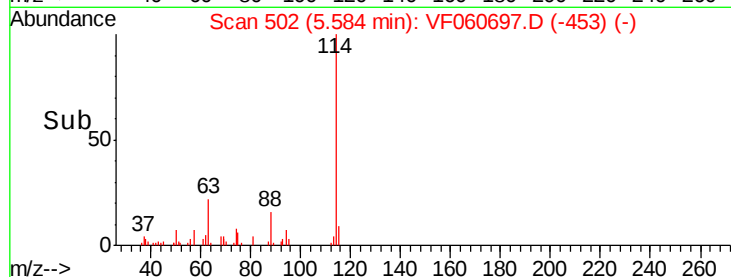
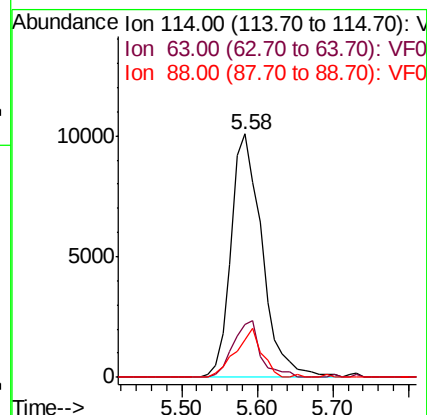
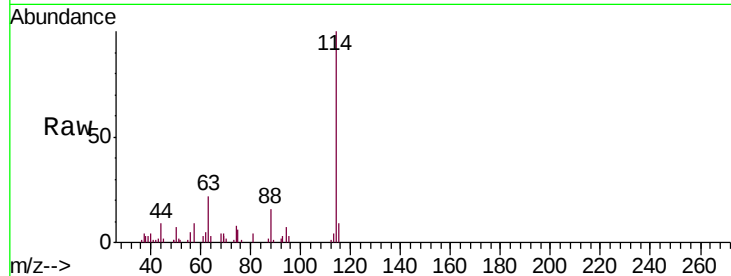




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF060697.D
 Acq: 12 Nov 2018 21:27

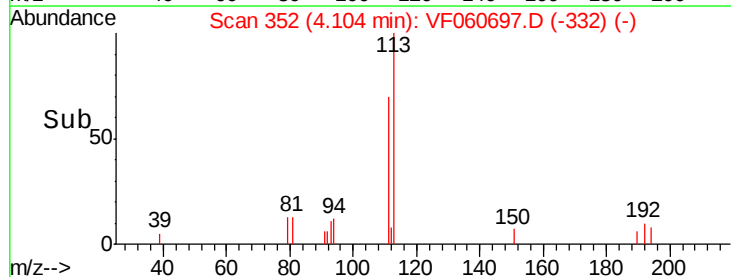
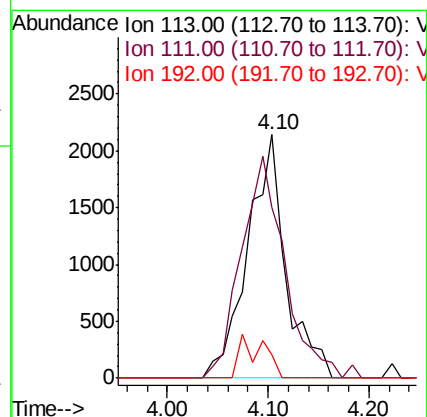
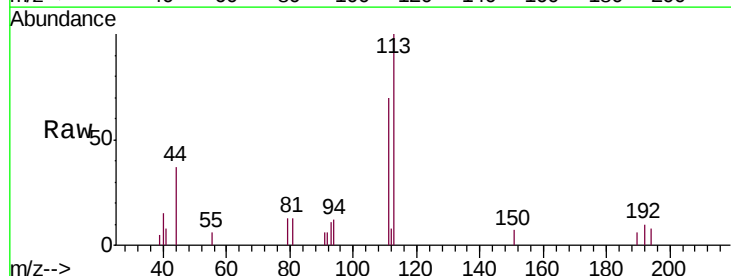
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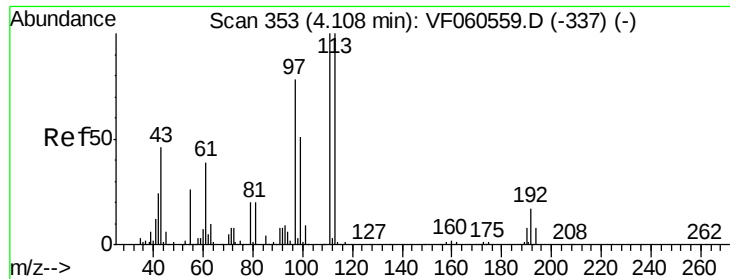
Tgt Ion:114 Resp: 28584
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 39.0
 88 15.6 0.0 38.2



#35
 Dibromofluoromethane
 Concen: 25.688 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VF060697.D
 Acq: 12 Nov 2018 21:27

Tgt Ion:113 Resp: 5673
 Ion Ratio Lower Upper
 113 100
 111 70.2 79.9 119.9#
 192 9.6 13.3 19.9#





#37

Ethyl Acetate

Concen: 1.370 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

TP-3-DRE

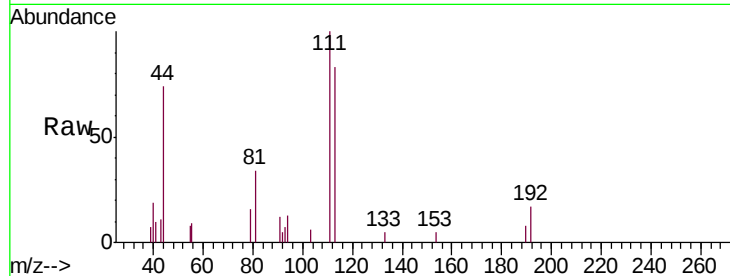
Tgt Ion: 43 Resp: 207

Ion Ratio Lower Upper

43 100

61 0.0 63.4 95.2#

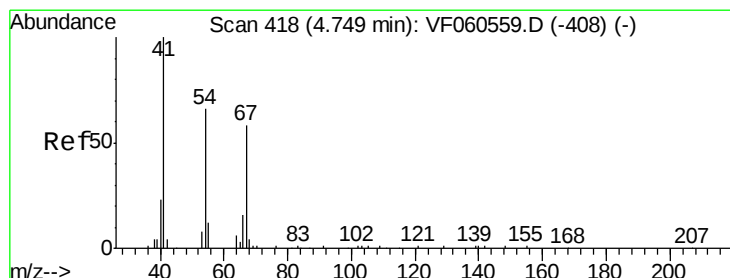
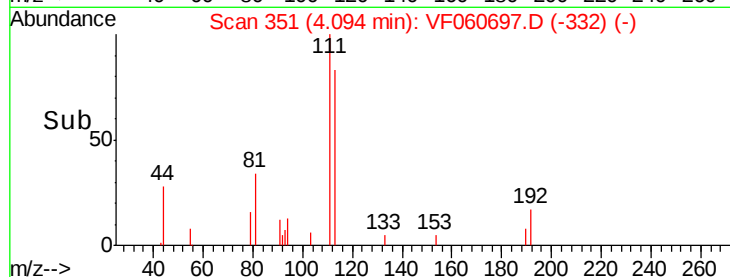
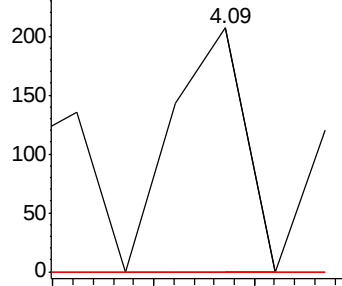
70 0.0 9.3 13.9#



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: 2.875 ug/l

RT: 4.76 min Scan# 418

Delta R.T. 0.01 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Tgt Ion: 41 Resp: 246

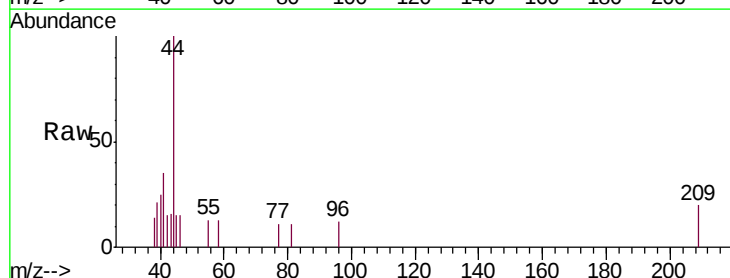
Ion Ratio Lower Upper

41 100

39 59.9 45.6 68.4

67 0.0 45.3 67.9#

52 0.0 29.6 44.4#

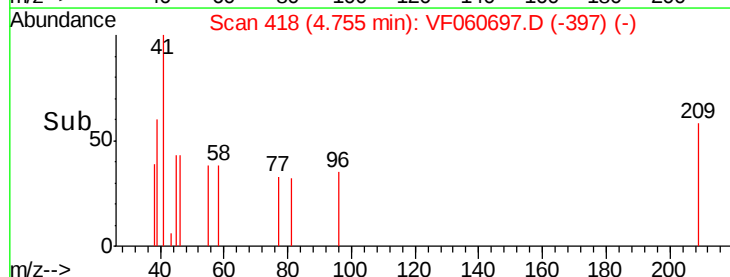
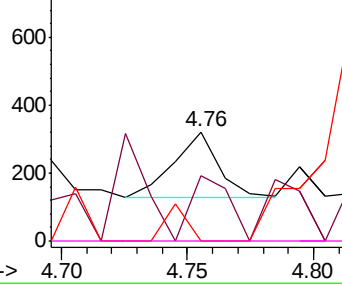


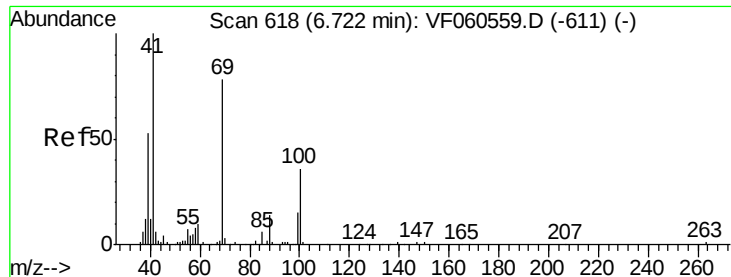
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

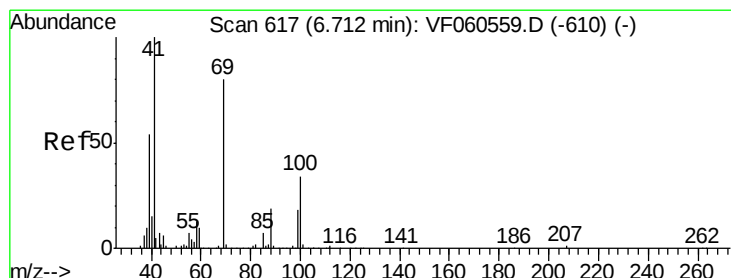
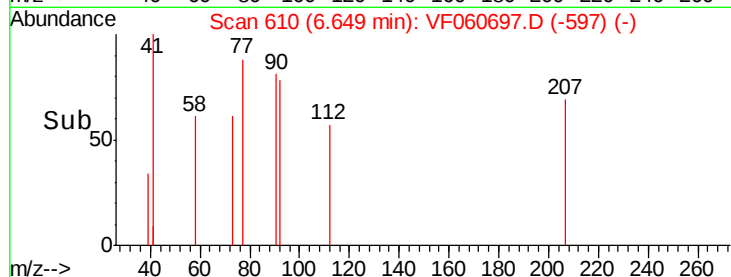
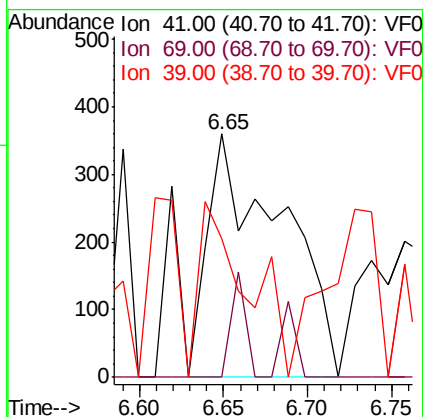
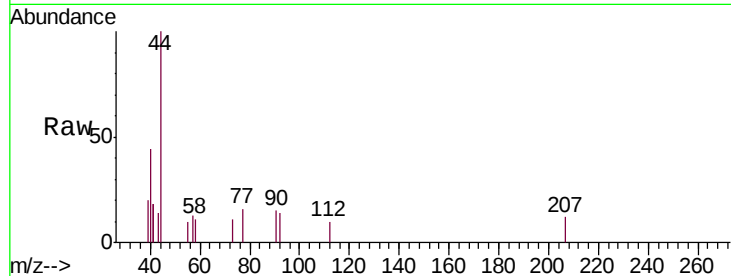




#48
Methyl methacrylate
Concen: 9.133 ug/l
RT: 6.65 min Scan# 610
Delta R.T. -0.07 min
Lab File: VF060697.D
Acq: 12 Nov 2018 21:27

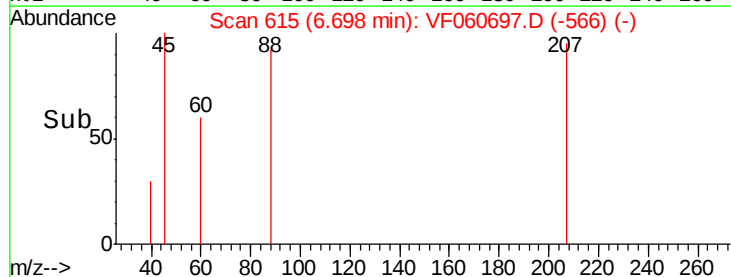
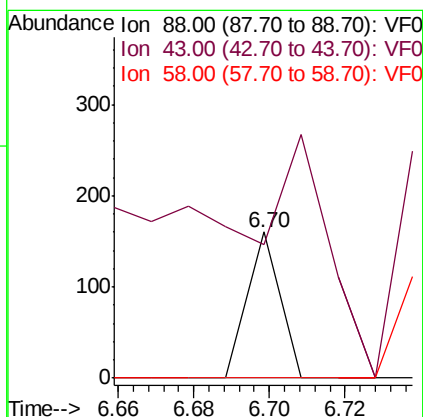
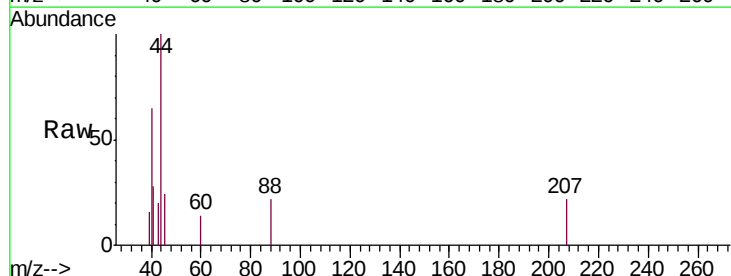
Instrument :
MSVOA_F
ClientSampled :
TP-3-DRE

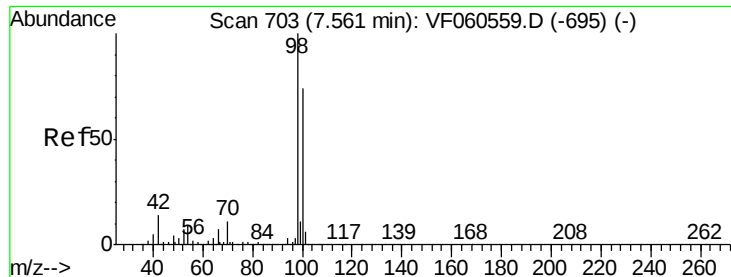
Tgt Ion: 41 Resp: 1097
Ion Ratio Lower Upper
41 100
69 0.0 61.1 91.7#
39 56.9 43.0 64.6



#49
1,4-Dioxane
Concen: 75.610 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.01 min
Lab File: VF060697.D
Acq: 12 Nov 2018 21:27

Tgt Ion: 88 Resp: 95
Ion Ratio Lower Upper
88 100
43 91.3 61.2 91.8
58 0.0 56.9 85.3#





#50

Toluene-d8

Concen: 37.925 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

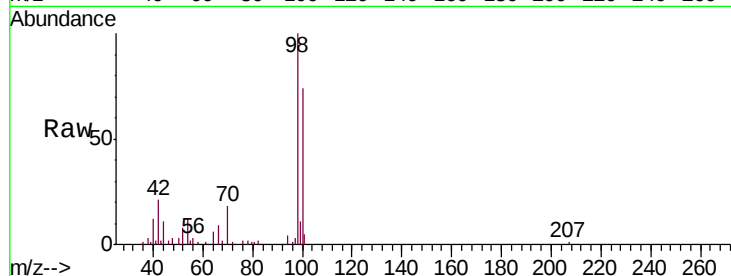
TP-3-DRE

Tgt Ion: 98 Resp: 24810

Ion Ratio Lower Upper

98 100

100 73.7 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

10000

8000

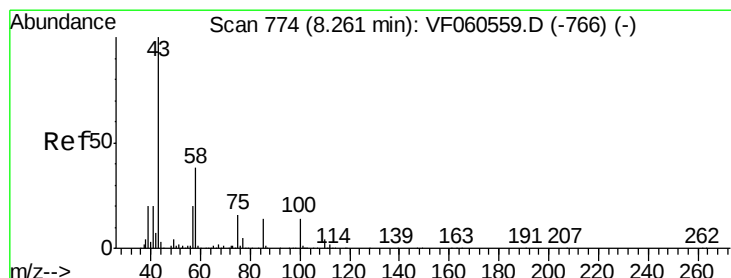
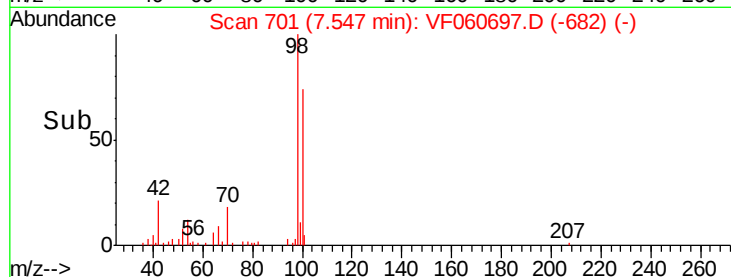
6000

4000

2000

0

Time--> 7.40 7.50 7.60



#51

4-Methyl-2-Pentanone

Concen: 7.081 ug/l

RT: 8.22 min Scan# 769

Delta R.T. -0.04 min

Lab File: VF060697.D

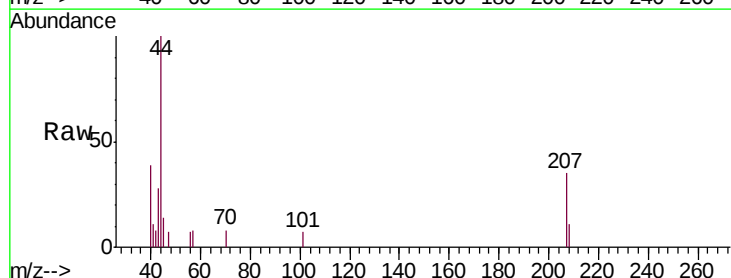
Acq: 12 Nov 2018 21:27

Tgt Ion: 43 Resp: 910

Ion Ratio Lower Upper

43 100

58 0.0 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.22

500

400

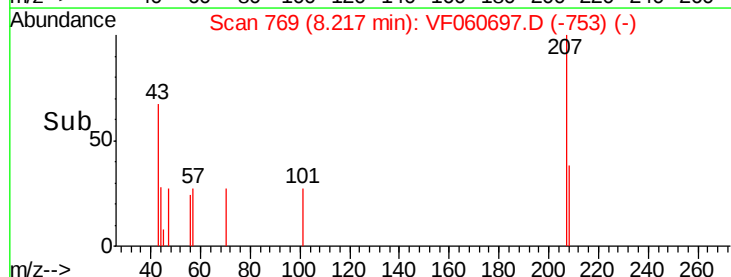
300

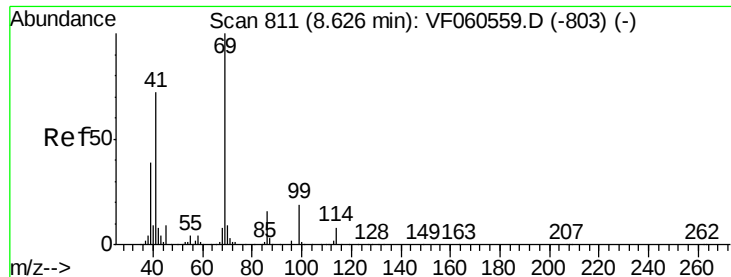
200

100

0

Time--> 8.15 8.20 8.25





#56

Ethyl methacrylate

Concen: 1.632 ug/l

RT: 8.59 min Scan# 807

Delta R.T. -0.03 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

TP-3-DRE

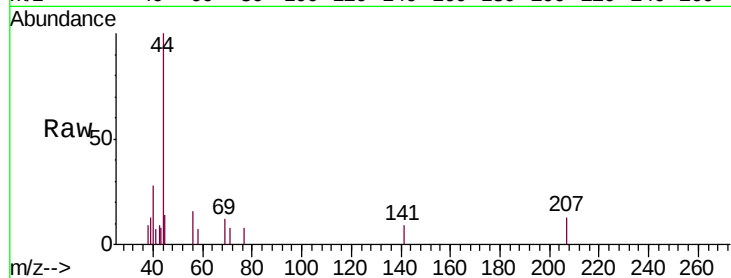
Tgt Ion: 69 Resp: 304

Ion Ratio Lower Upper

69 100

41 60.9 59.2 88.8

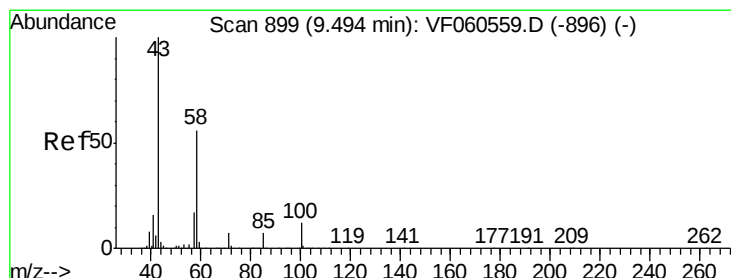
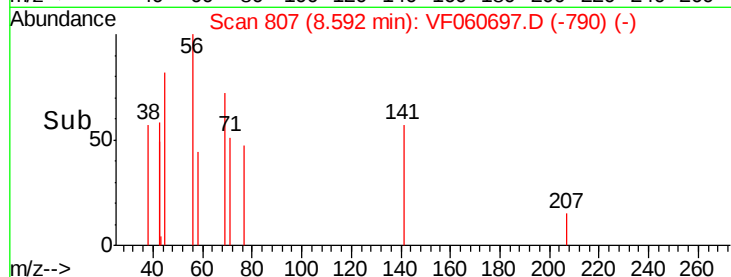
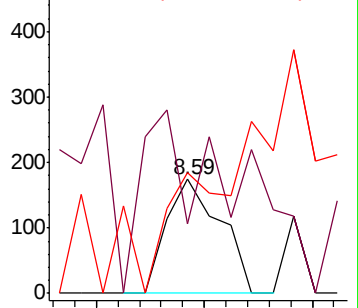
39 106.3 32.3 48.5#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: Below Cal

RT: 9.45 min Scan# 894

Delta R.T. -0.04 min

Lab File: VF060697.D

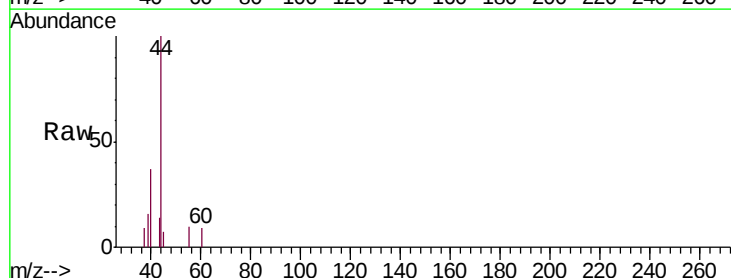
Acq: 12 Nov 2018 21:27

Tgt Ion: 43 Resp: 417

Ion Ratio Lower Upper

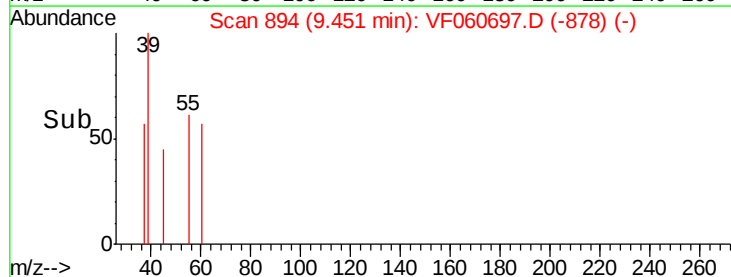
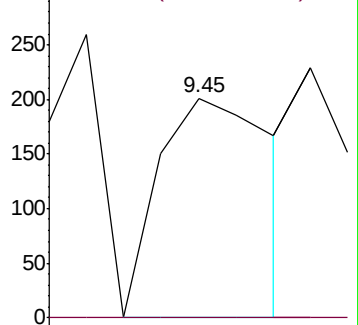
43 100

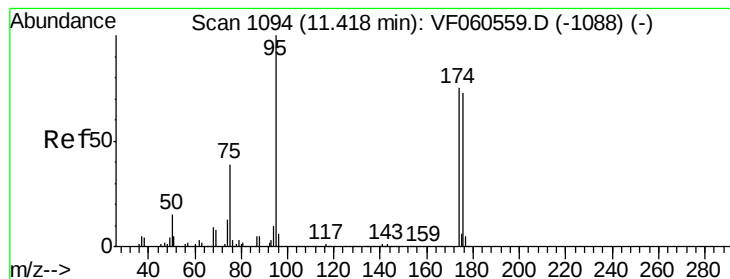
58 0.0 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 20.538 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

TP-3-DRE

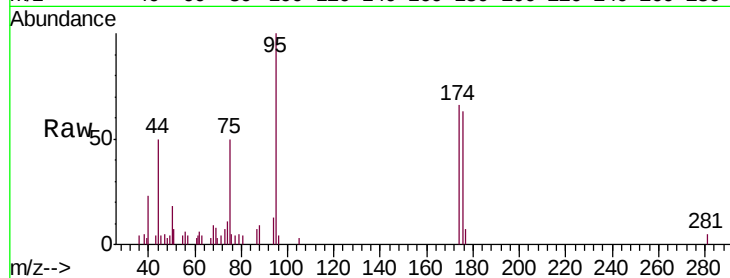
Tgt Ion: 95 Resp: 5877

Ion Ratio Lower Upper

95 100

174 66.2 0.0 149.0

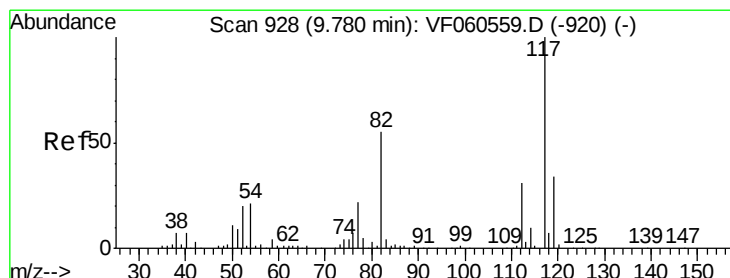
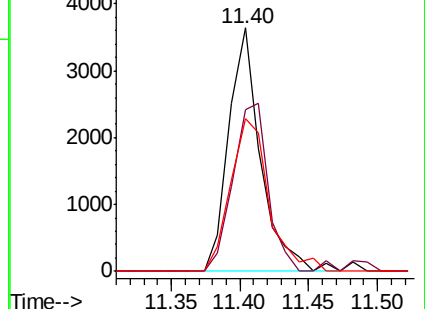
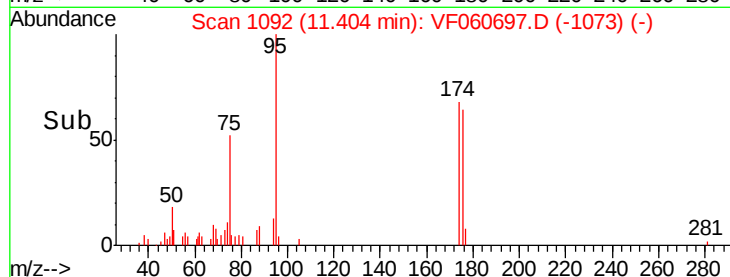
176 62.7 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF060697.D (-907) (-)

Ion 174.00 (173.70 to 174.70): VF060697.D (-907) (-)

Ion 176.00 (175.70 to 176.70): VF060697.D (-907) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

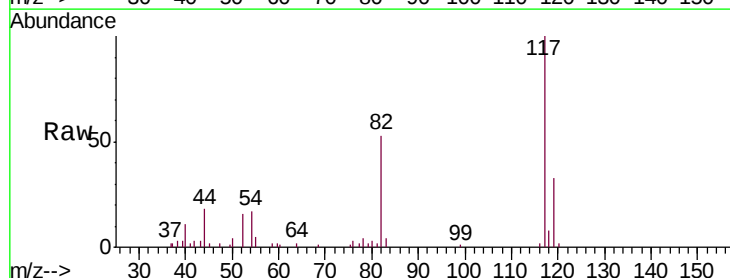
Tgt Ion: 117 Resp: 18426

Ion Ratio Lower Upper

117 100

82 52.5 43.9 65.9

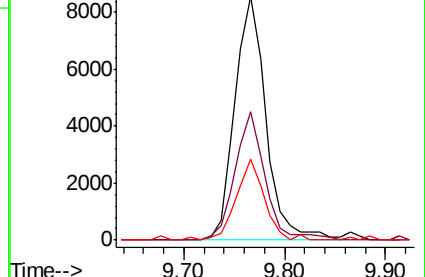
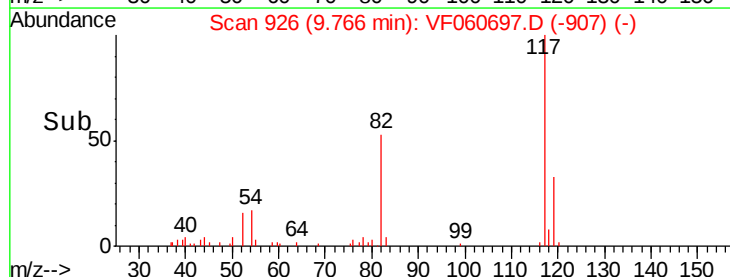
119 33.5 27.4 41.0

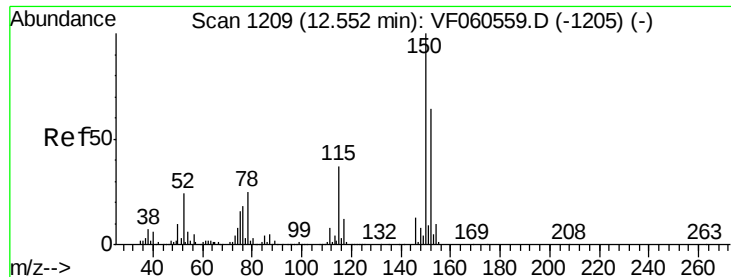


Abundance Ion 117.00 (116.70 to 117.70): VF060697.D (-907) (-)

Ion 82.00 (81.70 to 82.70): VF060697.D (-907) (-)

Ion 119.00 (118.70 to 119.70): VF060697.D (-907) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

TP-3-DRE

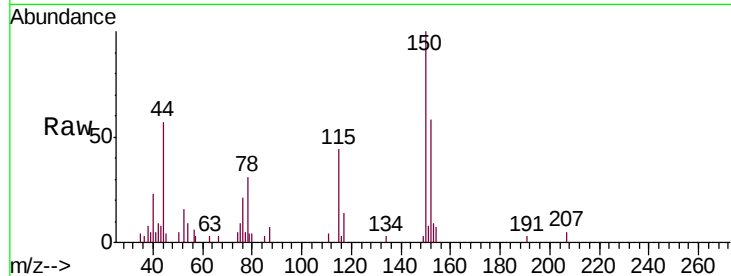
Tgt Ion:152 Resp: 4584

Ion Ratio Lower Upper

152 100

115 75.9 29.6 88.8

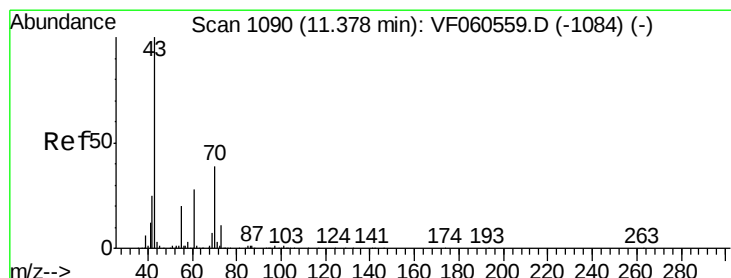
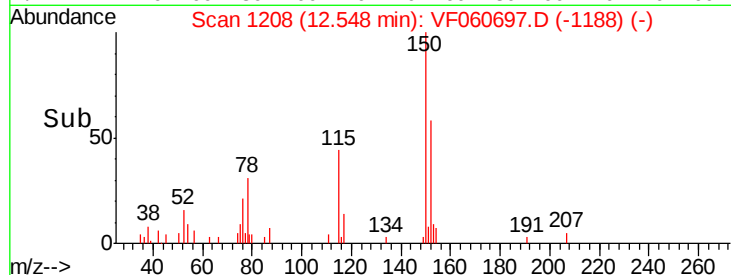
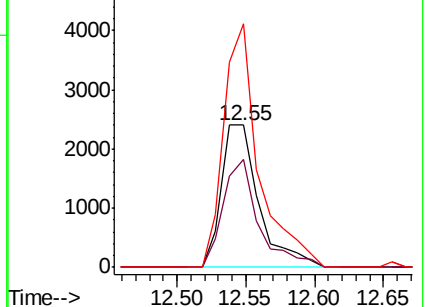
150 171.2 0.0 315.6



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 11.34 min Scan# 1086

Delta R.T. -0.03 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Tgt Ion: 43 Resp: 162

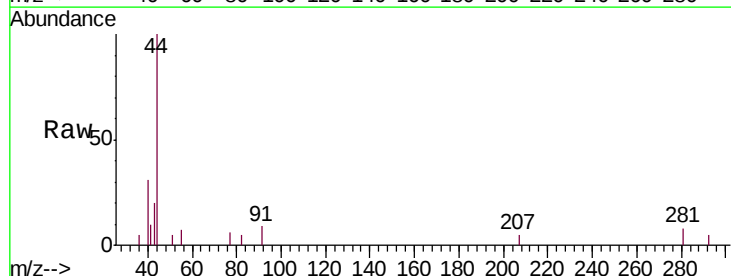
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 36.2 16.6 24.8#

61 0.0 22.0 33.0#

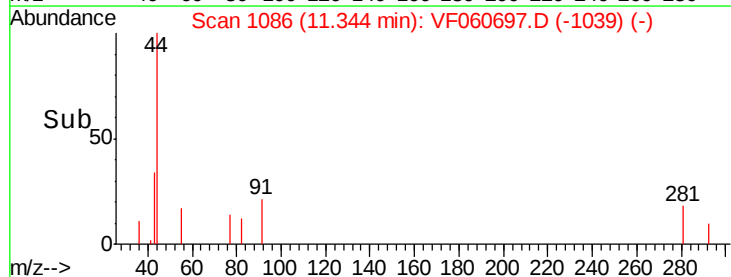
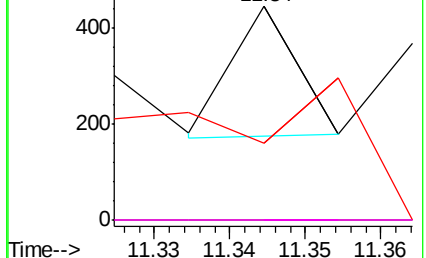


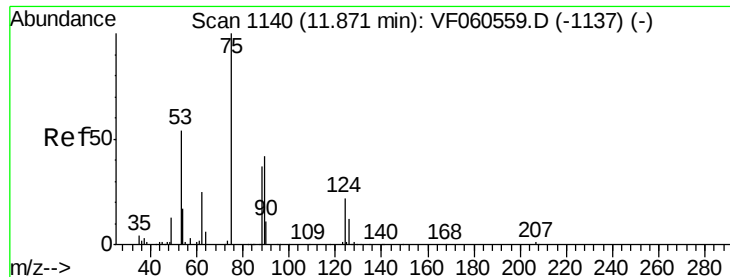
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#76

1,2,3-Trichloropropane

Concen: 2.058 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.15 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

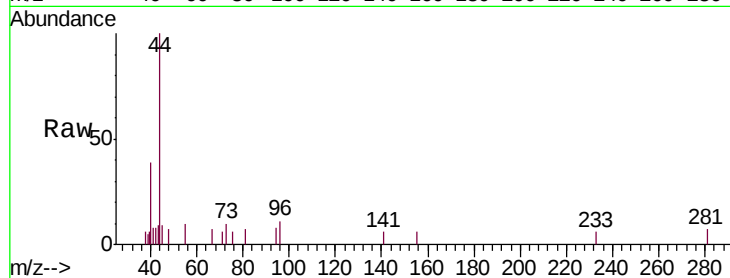
TP-3-DRE

Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

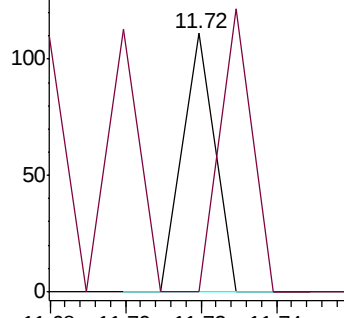
75 100

77 0.0 17.4 52.3#

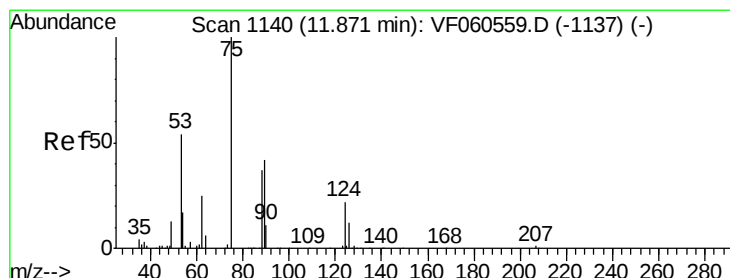
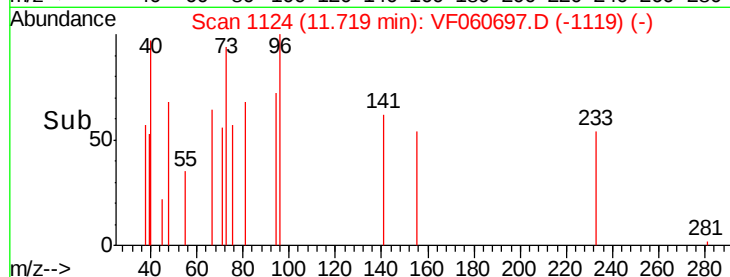


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time--> 11.68 11.70 11.72 11.74



#81

trans-1,4-Dichloro-2-butene

Concen: 2.619 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.15 min

Lab File: VF060697.D

Acq: 12 Nov 2018 21:27

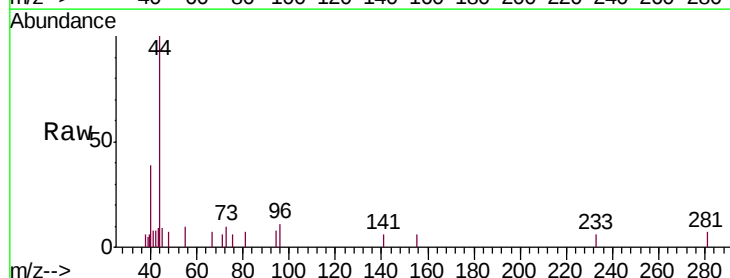
Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

53 0.0 51.6 77.4#

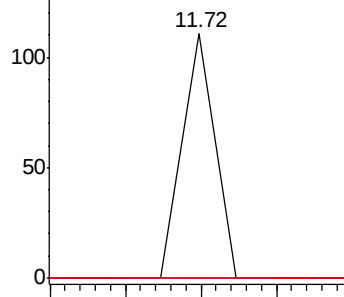
89 0.0 36.7 55.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



Time--> 11.68 11.70 11.72 11.74

