

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122618\
 Data File : VF061198.D
 Acq On : 26 Dec 2018 19:56
 Operator : VA/AP
 Sample : J6446-03RE
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS026-0006-01RE

Quant Time: Dec 26 23:55:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	23891	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	29899	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	15577	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	4260	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	5953	19.37	ug/l	-0.01
Spiked Amount			Recovery	=	38.74%	
35) Dibromofluoromethane	4.10	113	8377	34.98	ug/l	-0.01
Spiked Amount			Recovery	=	69.96%	
50) Toluene-d8	7.54	98	25744	37.93	ug/l	-0.01
Spiked Amount			Recovery	=	75.86%	
62) 4-Bromofluorobenzene	11.40	95	4311	13.78	ug/l	-0.01
Spiked Amount			Recovery	=	27.56%	

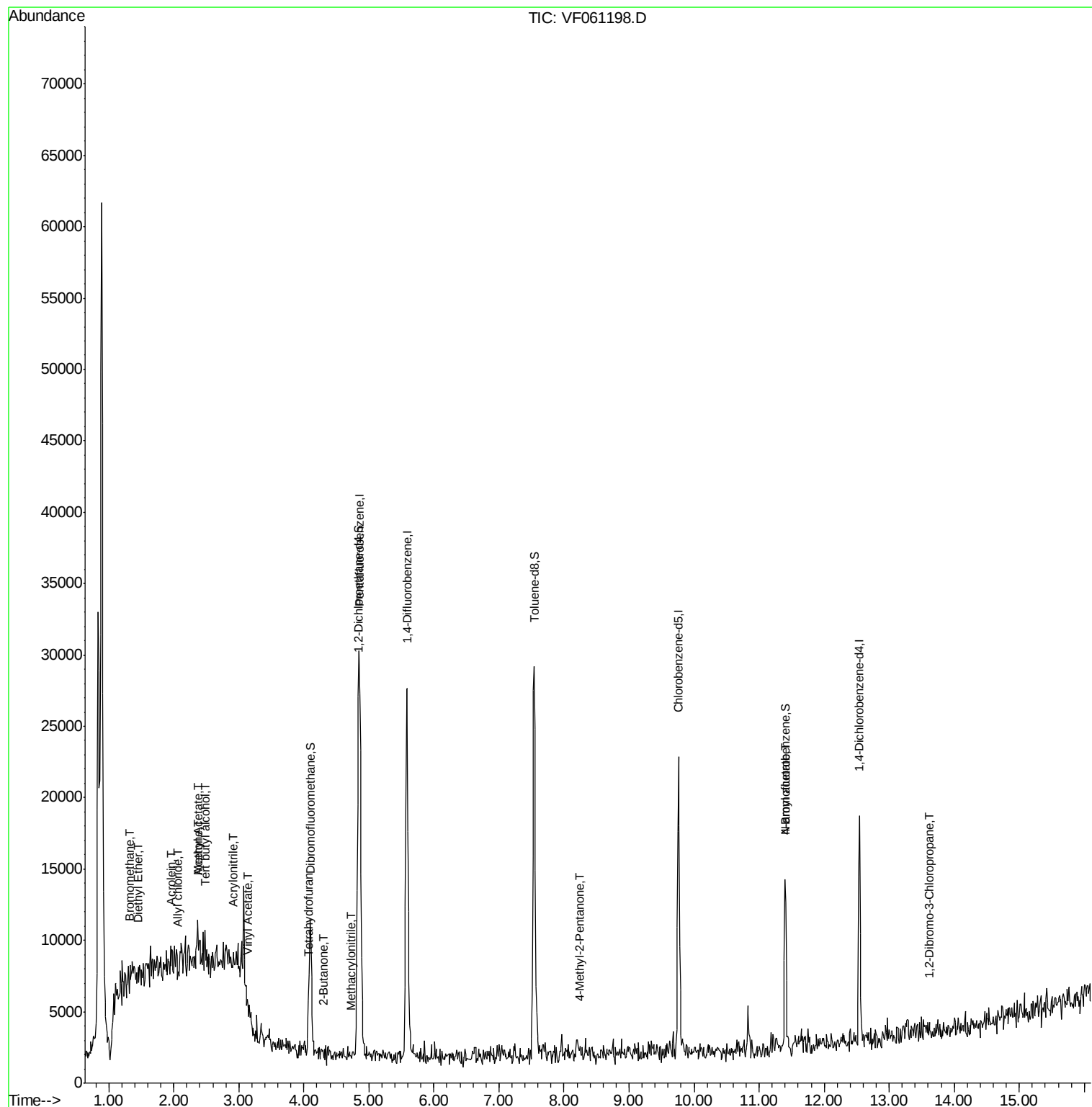
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.34	94	452	2.309	ug/l #	3
8) Diethyl Ether	1.45	74	84	1.138	ug/l	93
11) Tert butyl alcohol	2.48	59	69	5.565	ug/l #	1
13) Acrolein	1.98	56	572	63.838	ug/l #	75
14) Allyl chloride	2.08	41	495	2.259	ug/l #	55
15) Acrylonitrile	2.91	53	359	12.520	ug/l #	85
16) Acetone	2.36	43	2144	34.902	ug/l	97
18) Methyl Acetate	2.36	43	2742	21.575	ug/l #	66
20) Methylene Chloride	2.20	84	257	Below Cal	#	25
23) Vinyl Acetate	3.13	43	683	2.028	ug/l #	78
25) 2-Butanone	4.30	43	101	1.014	ug/l #	57
29) Tetrahydrofuran	4.06	42	122	3.009	ug/l #	37
41) Methacrylonitrile	4.72	41	271	3.556	ug/l #	27
51) 4-Methyl-2-Pentanone	8.24	43	121	1.012	ug/l #	38
74) N-amyl acetate	11.39	43	120	1.472	ug/l #	5
78) n-propylbenzene	11.64	91	60	Below Cal	#	55
92) 1,2-Dibromo-3-Chloropropan	13.62	75	63	5.635	ug/l #	2

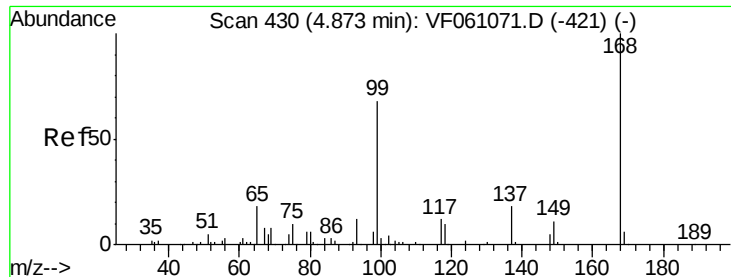
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

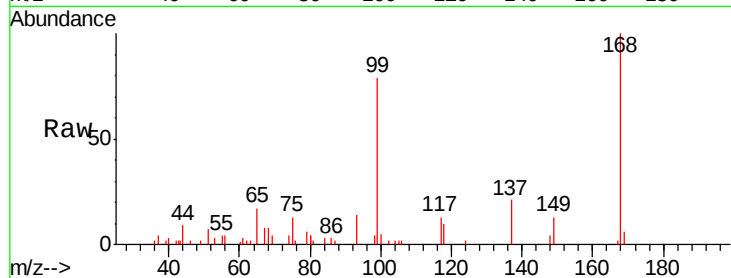
P001-SS026-0006-01RE

Tgt Ion:168 Resp: 23891

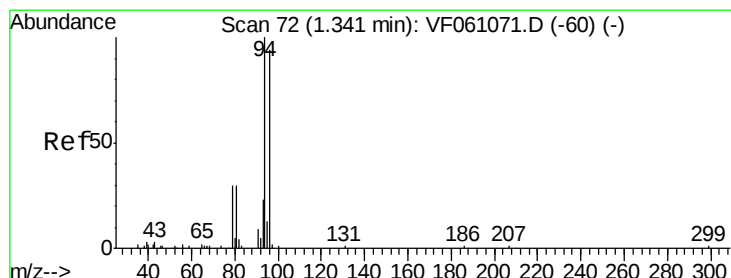
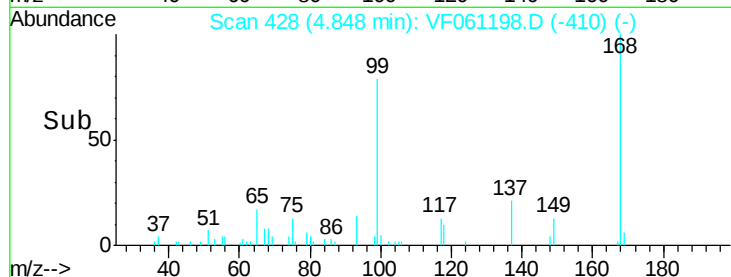
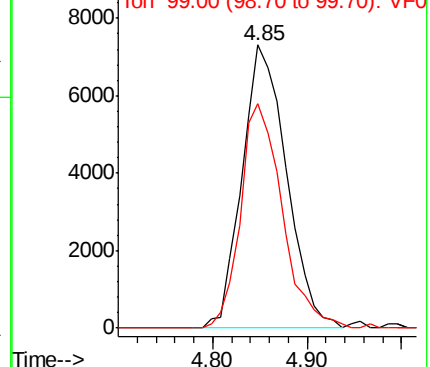
Ion Ratio Lower Upper

168 100

99 79.4 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 2.309 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VF061198.D

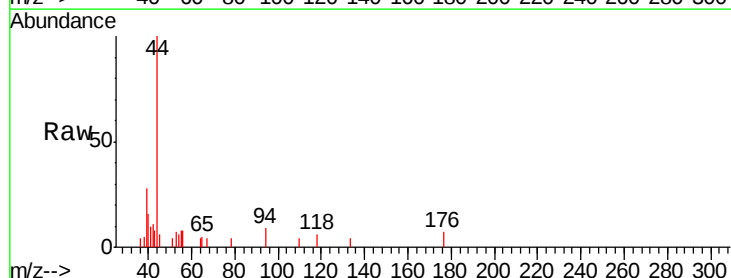
Acq: 26 Dec 2018 19:56

Tgt Ion: 94 Resp: 452

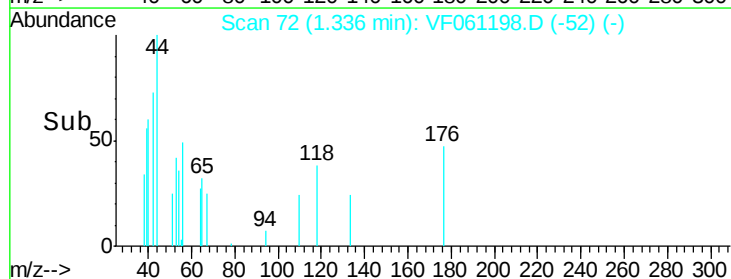
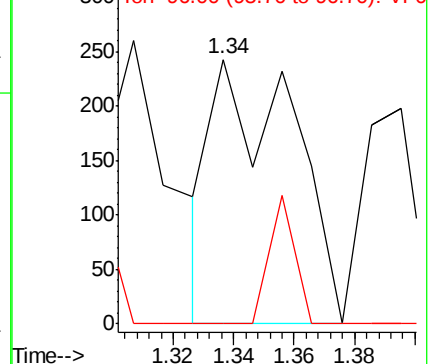
Ion Ratio Lower Upper

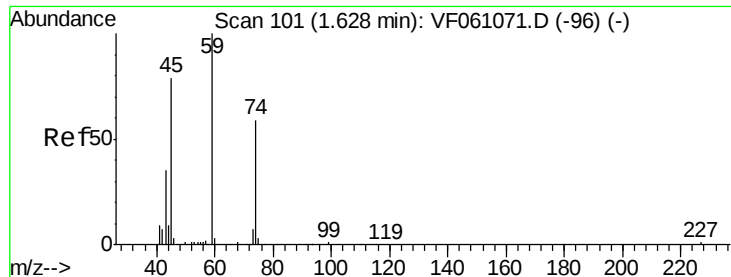
94 100

96 0.0 74.4 111.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0





#8

Diethyl Ether

Concen: 1.138 ug/l

RT: 1.45 min Scan# 84

Delta R.T. -0.17 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

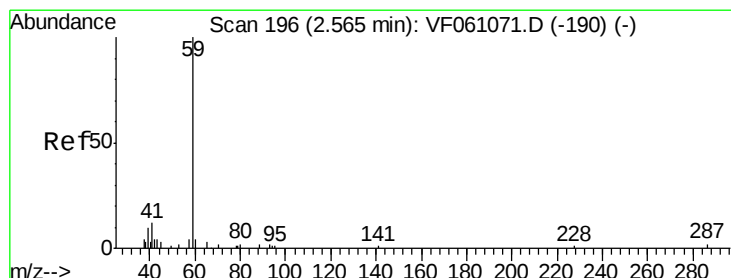
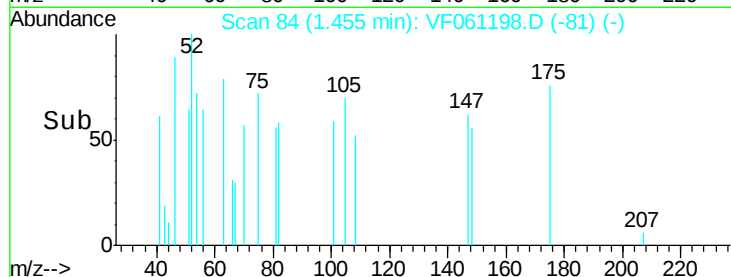
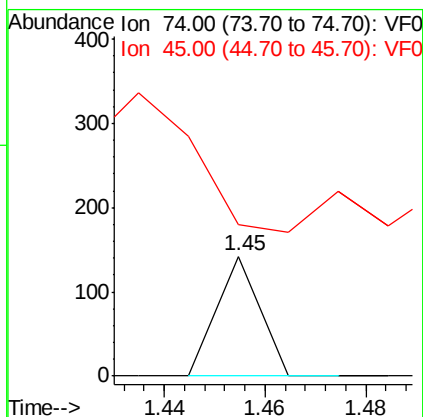
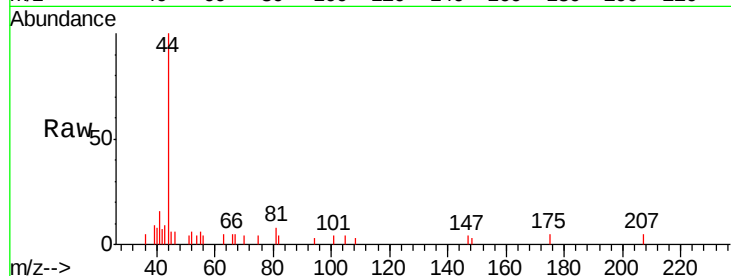
P001-SS026-0006-01RE

Tgt Ion: 74 Resp: 84

Ion Ratio Lower Upper

74 100

45 126.8 67.8 203.4



#11

Tert butyl alcohol

Concen: 5.565 ug/l

RT: 2.48 min Scan# 188

Delta R.T. -0.08 min

Lab File: VF061198.D

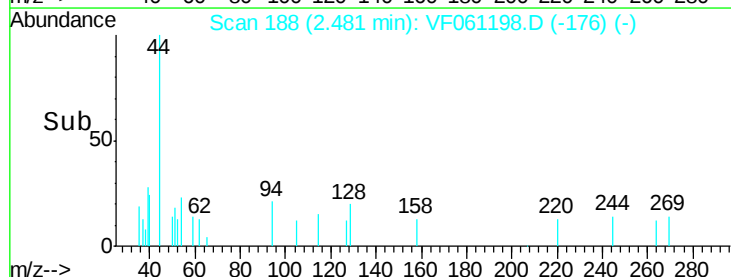
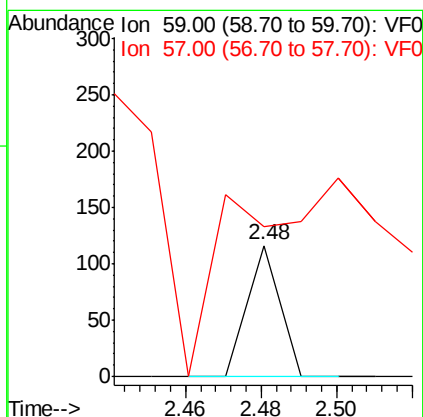
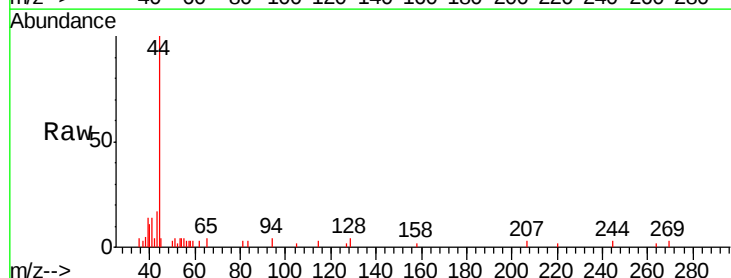
Acq: 26 Dec 2018 19:56

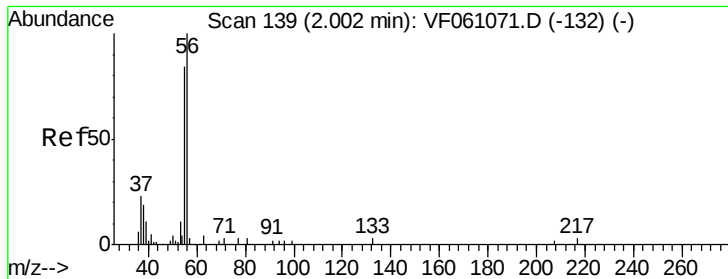
Tgt Ion: 59 Resp: 69

Ion Ratio Lower Upper

59 100

57 114.7 11.5 17.3#





#13

Acrolein

Concen: 63.838 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.02 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

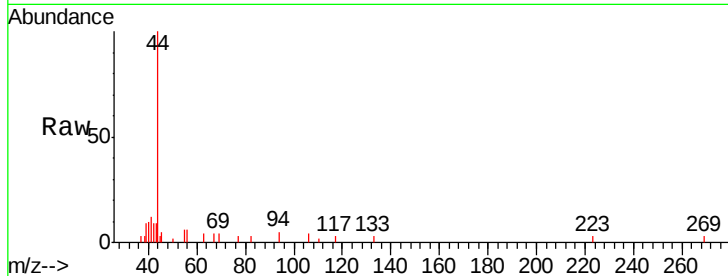
P001-SS026-0006-01RE

Tgt Ion: 56 Resp: 572

Ion Ratio Lower Upper

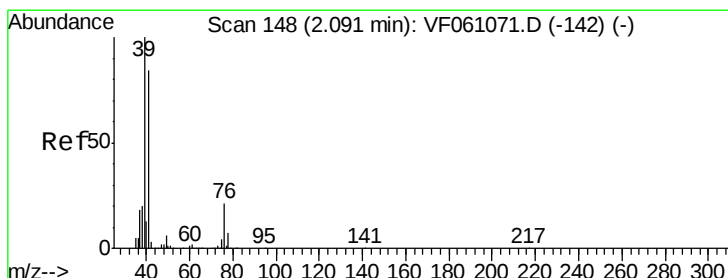
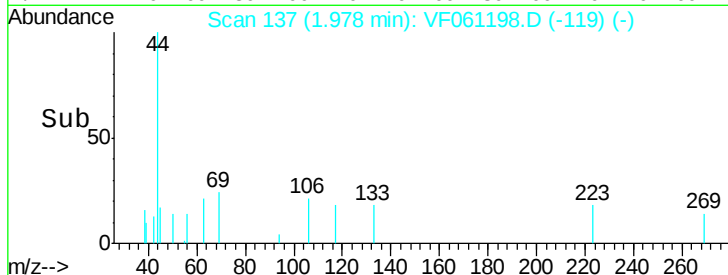
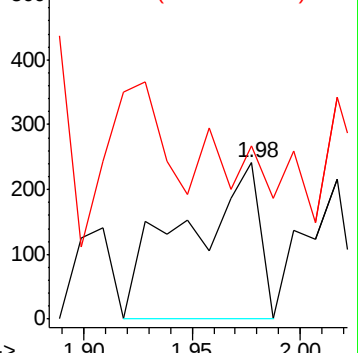
56 100

55 111.2 70.2 105.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 2.259 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

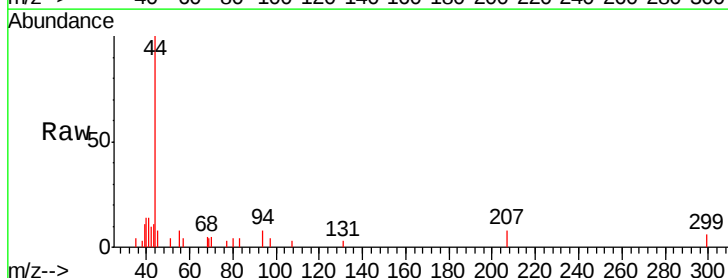
Tgt Ion: 41 Resp: 495

Ion Ratio Lower Upper

41 100

39 73.5 96.4 144.6#

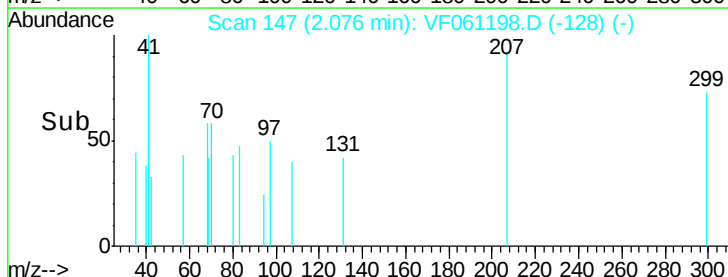
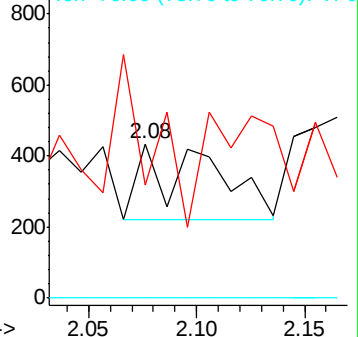
76 0.0 25.4 38.0#

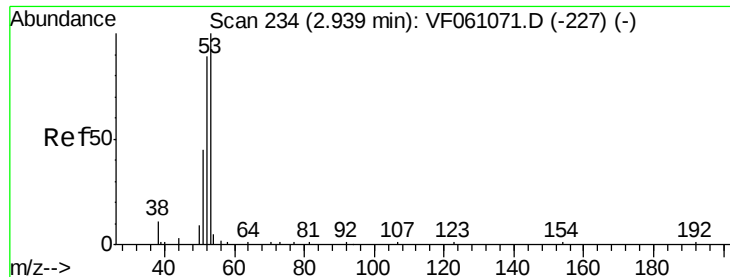


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 12.520 ug/l

RT: 2.91 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

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P001-SS026-0006-01RE

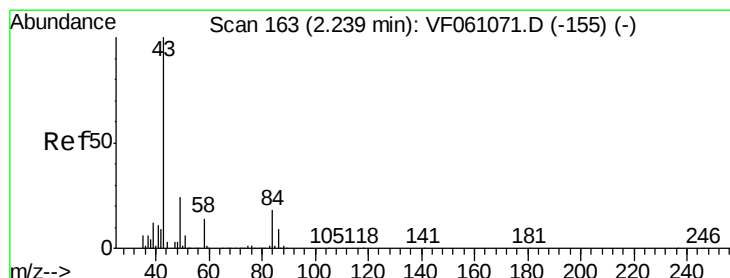
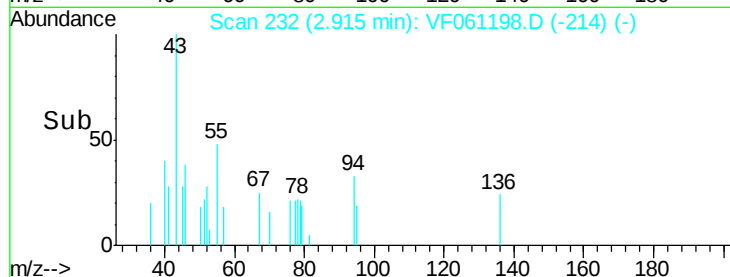
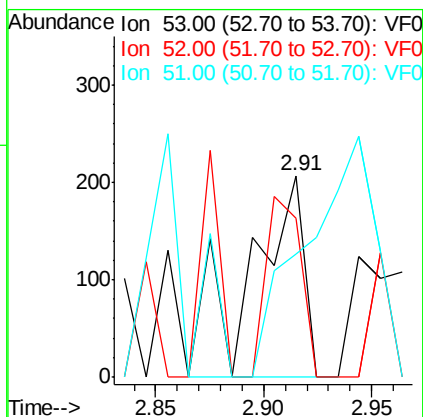
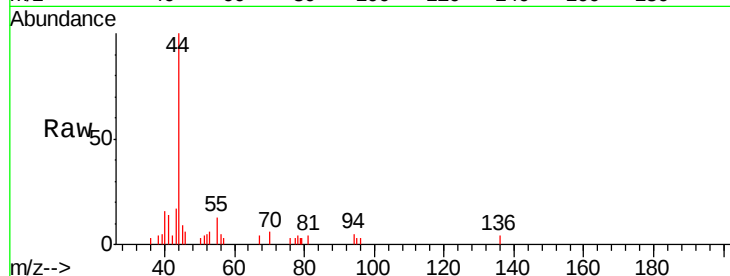
Tgt Ion: 53 Resp: 359

Ion Ratio Lower Upper

53 100

52 78.7 71.3 106.9

51 60.9 36.8 55.2#



#16

Acetone

Concen: 34.902 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.12 min

Lab File: VF061198.D

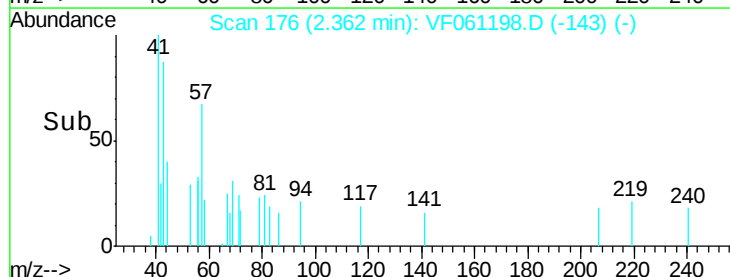
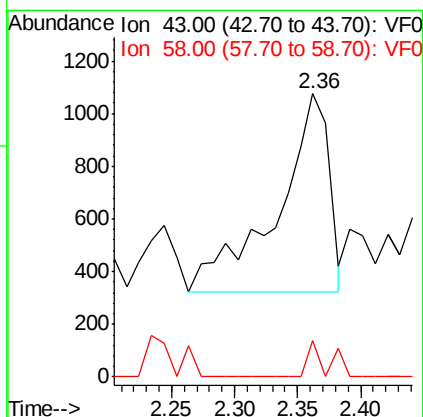
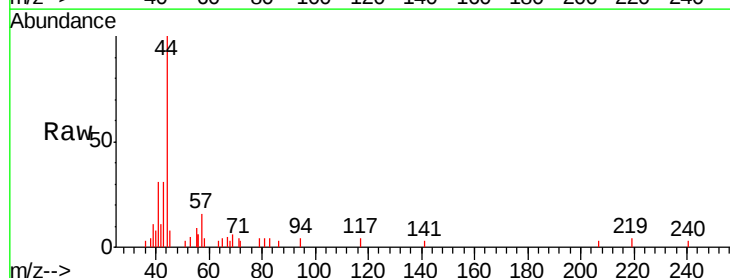
Acq: 26 Dec 2018 19:56

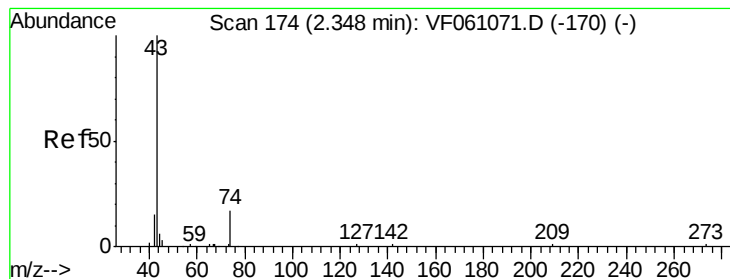
Tgt Ion: 43 Resp: 2144

Ion Ratio Lower Upper

43 100

58 12.7 11.1 16.7





#18

Methyl Acetate

Concen: 21.575 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

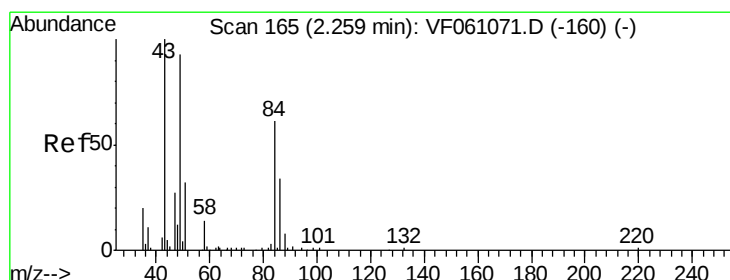
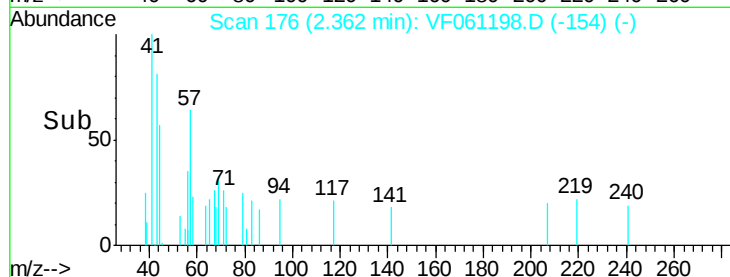
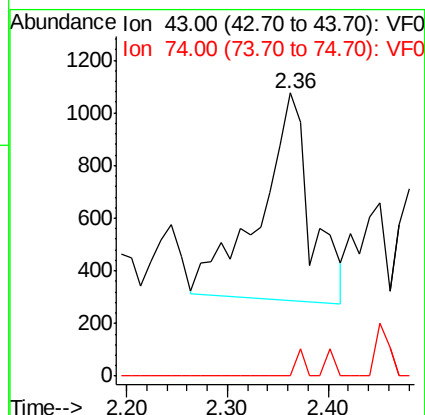
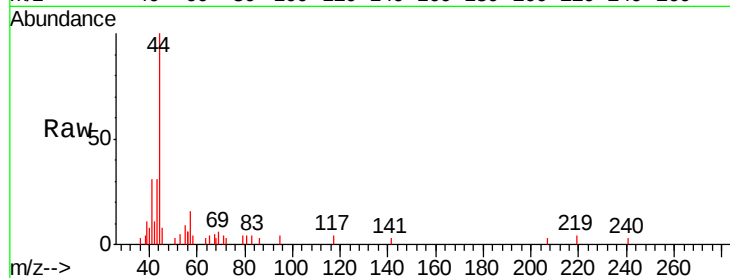
P001-SS026-0006-01RE

Tgt Ion: 43 Resp: 2742

Ion Ratio Lower Upper

43 100

74 0.0 11.0 16.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.20 min Scan# 160

Delta R.T. -0.05 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Tgt Ion: 84 Resp: 257

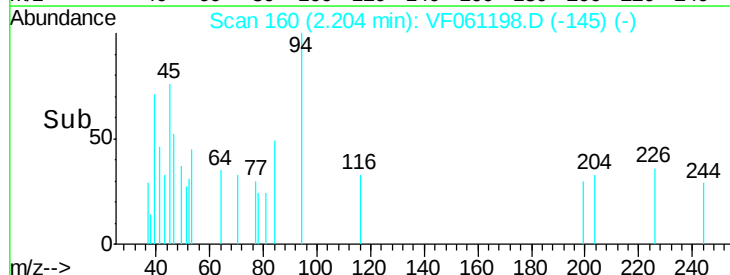
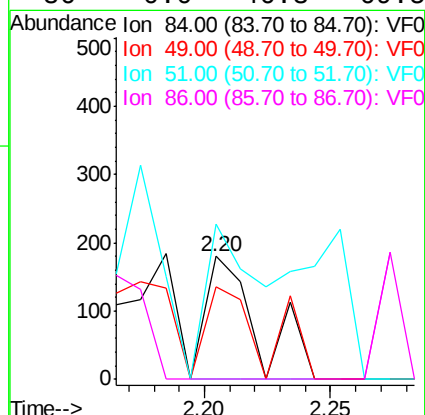
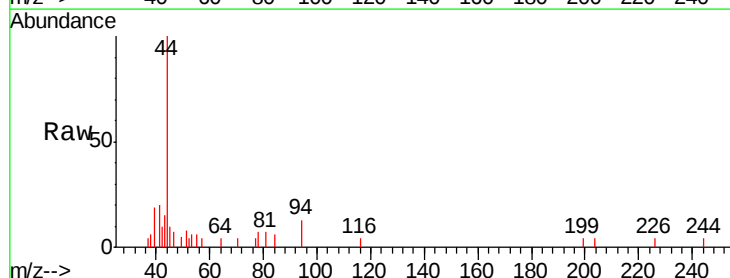
Ion Ratio Lower Upper

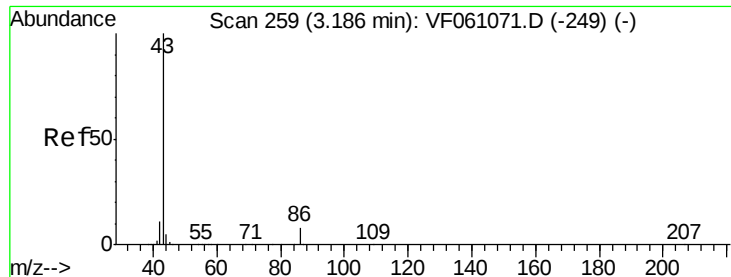
84 100

49 75.0 129.4 194.2#

51 126.7 44.0 66.0#

86 0.0 46.3 69.5#





#23

Vinyl Acetate

Concen: 2.028 ug/l

RT: 3.13 min Scan# 254

Delta R.T. -0.05 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

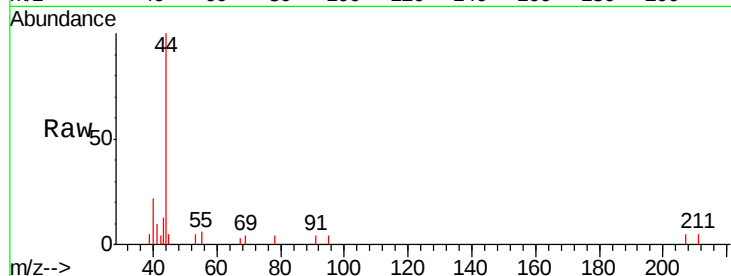
P001-SS026-0006-01RE

Tgt Ion: 43 Resp: 683

Ion Ratio Lower Upper

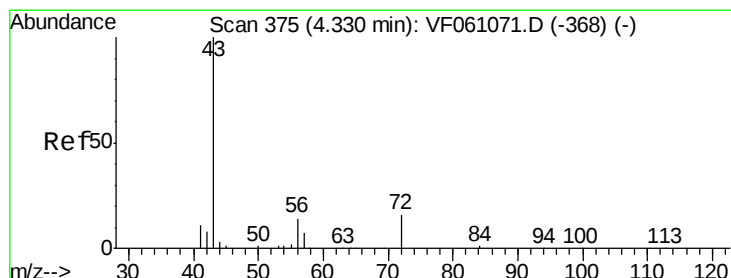
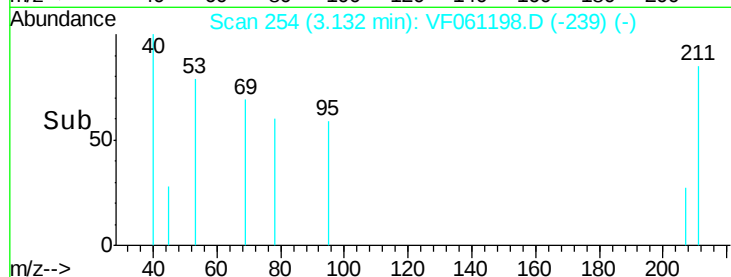
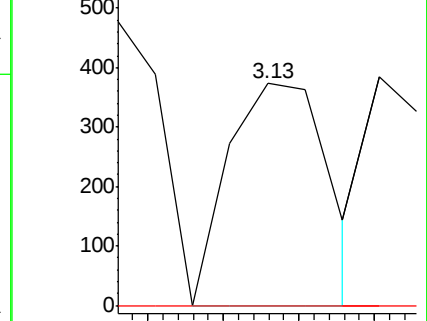
43 100

86 0.0 6.3 9.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.014 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.03 min

Lab File: VF061198.D

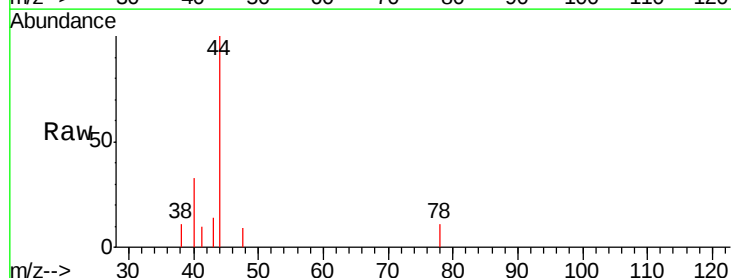
Acq: 26 Dec 2018 19:56

Tgt Ion: 43 Resp: 101

Ion Ratio Lower Upper

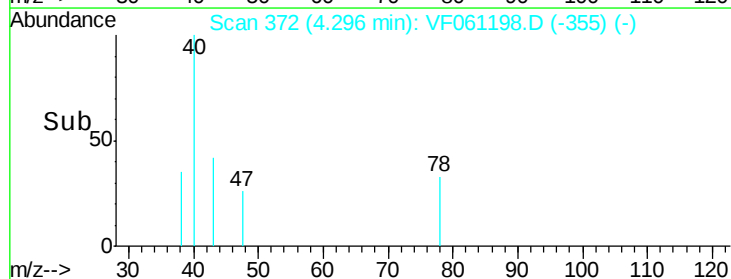
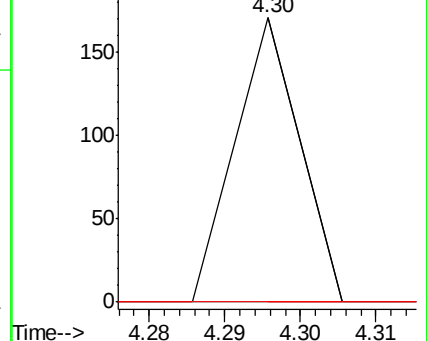
43 100

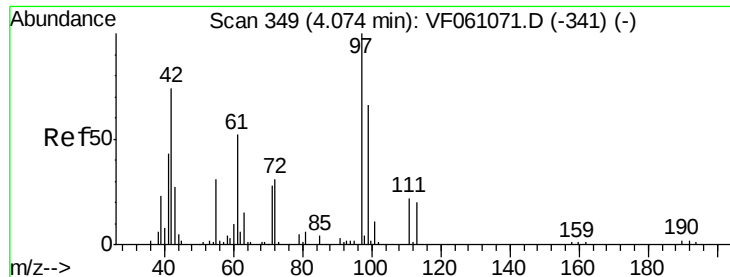
72 0.0 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.009 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

P001-SS026-0006-01RE

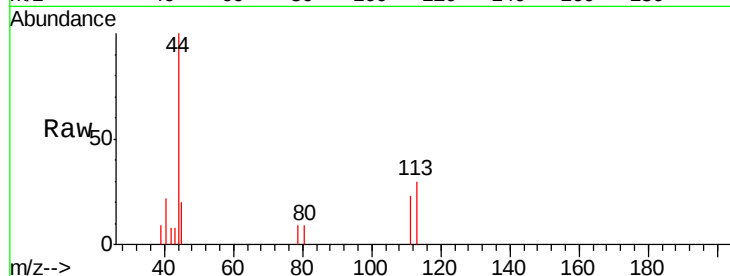
Tgt Ion: 42 Resp: 122

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

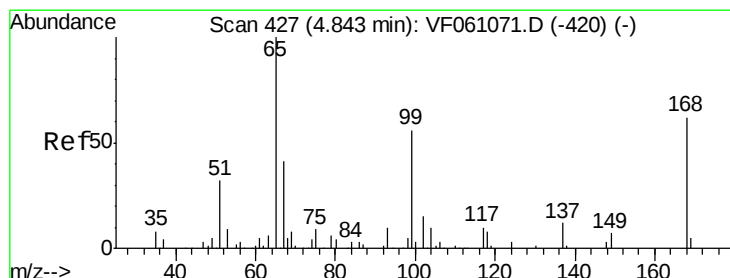
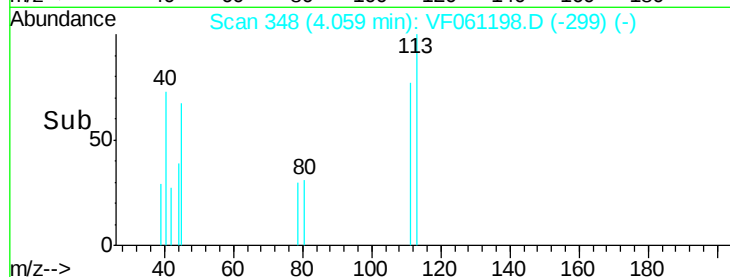
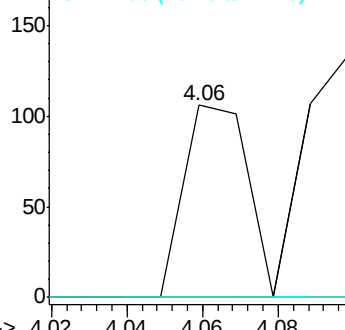
71 0.0 29.7 44.5#



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: 19.373 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061198.D

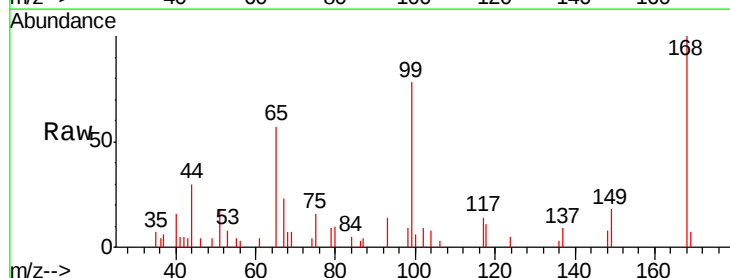
Acq: 26 Dec 2018 19:56

Tgt Ion: 65 Resp: 5953

Ion Ratio Lower Upper

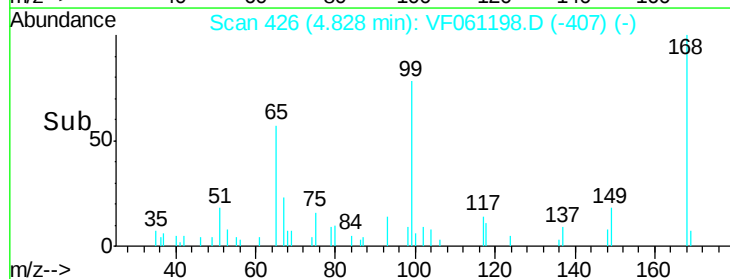
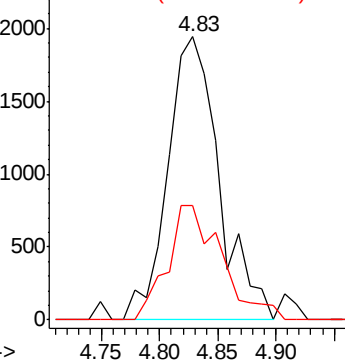
65 100

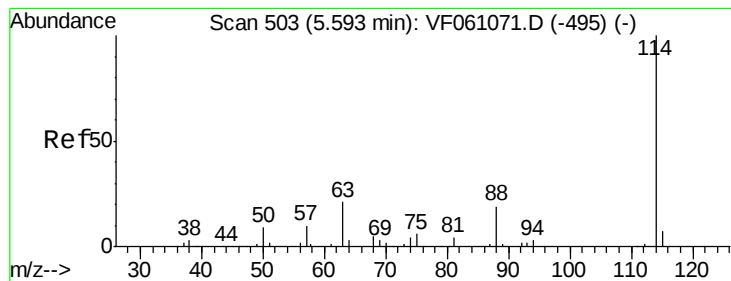
67 40.3 0.0 94.6



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: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

P001-SS026-0006-01RE

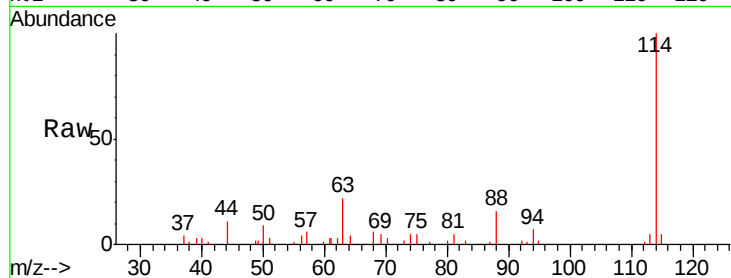
Tgt Ion:114 Resp: 29899

Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.6

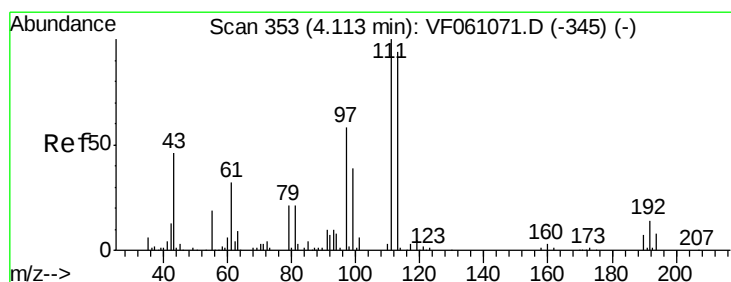
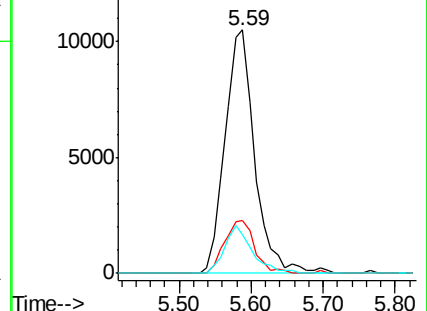
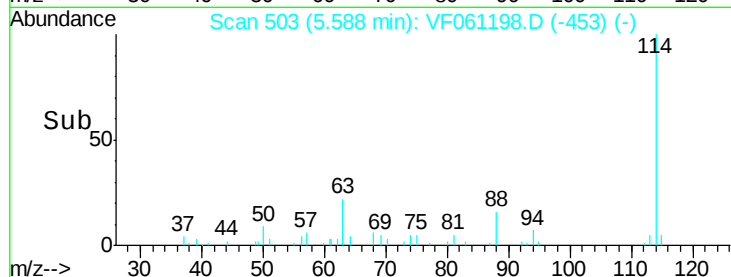
88 16.0 0.0 38.0



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: 34.976 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

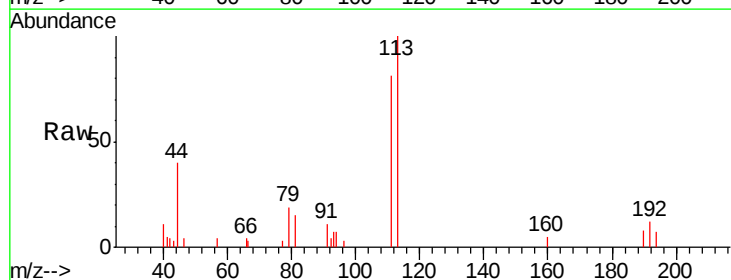
Tgt Ion:113 Resp: 8377

Ion Ratio Lower Upper

113 100

111 81.2 85.2 127.8#

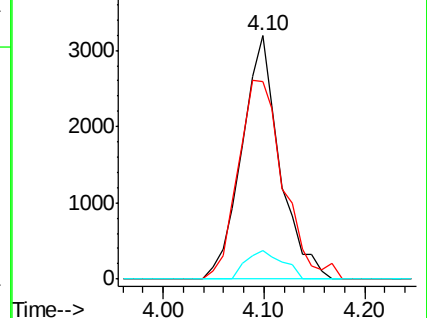
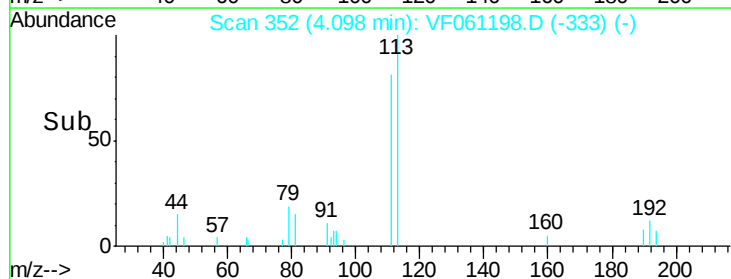
192 11.6 12.8 19.2#

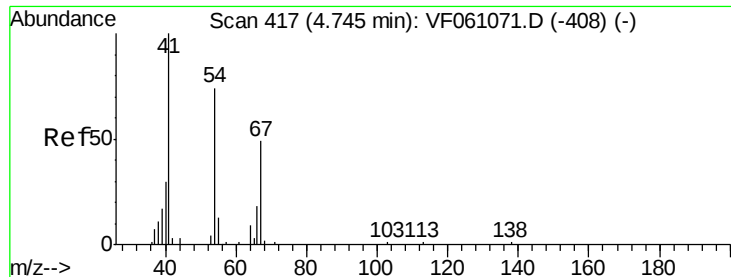


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

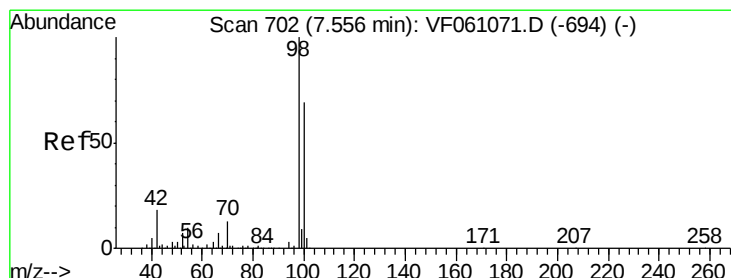
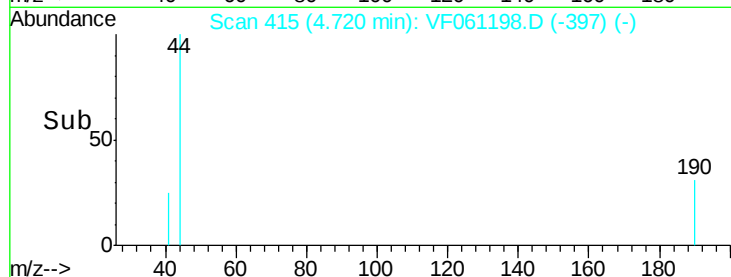
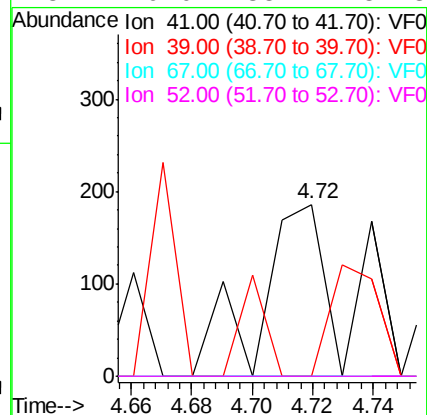
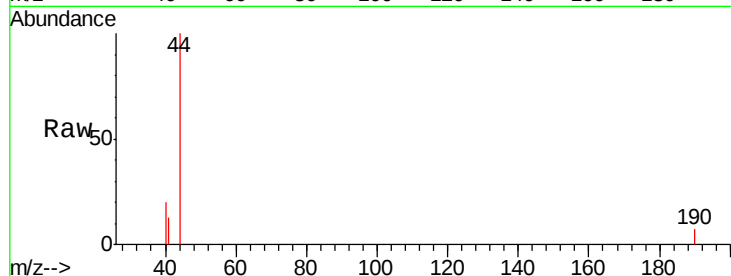




#41
Methacrylonitrile
Concen: 3.556 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.02 min
Lab File: VF061198.D
Acq: 26 Dec 2018 19:56

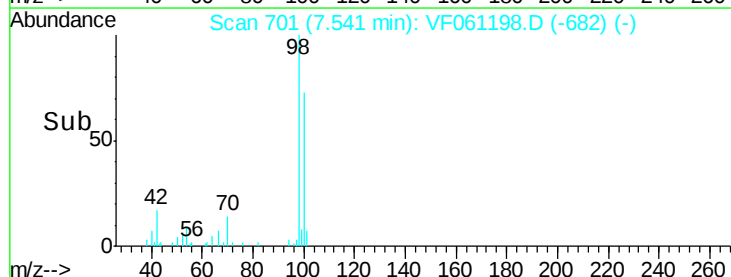
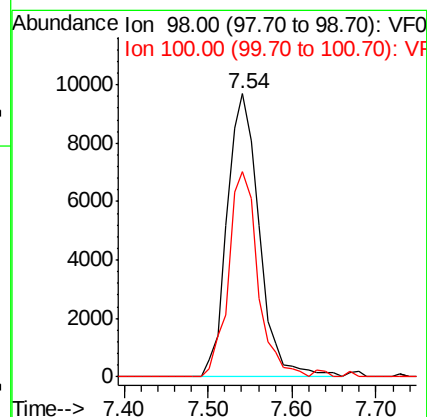
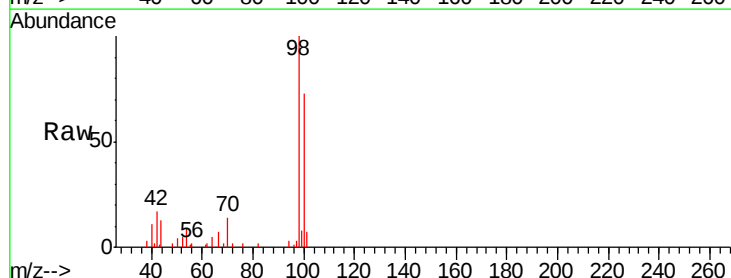
Instrument :
MSVOA_F
ClientSampleId :
P001-SS026-0006-01RE

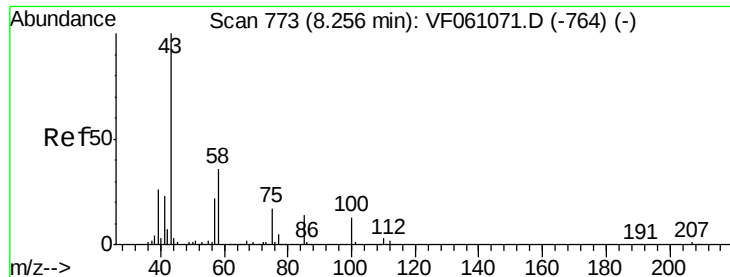
Tgt Ion:	41	Resp:	271
Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.7	68.5#
67	0.0	38.9	58.3#
52	0.0	35.2	52.8#



#50
Toluene-d8
Concen: 37.929 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.01 min
Lab File: VF061198.D
Acq: 26 Dec 2018 19:56

Tgt Ion:	98	Resp:	25744
Ion	Ratio	Lower	Upper
98	100		
100	72.5	55.3	82.9





#51

4-Methyl-2-Pentanone

Concen: 1.012 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

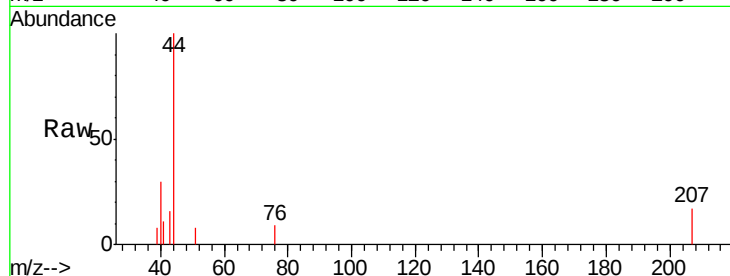
P001-SS026-0006-01RE

Tgt Ion: 43 Resp: 121

Ion Ratio Lower Upper

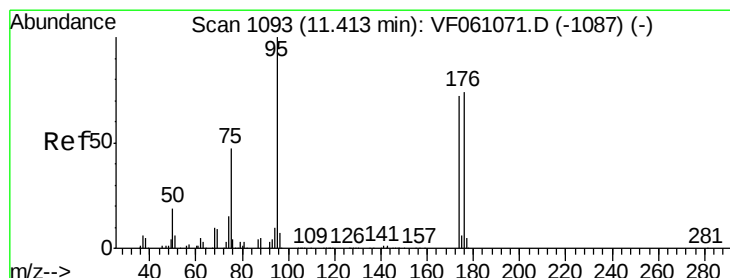
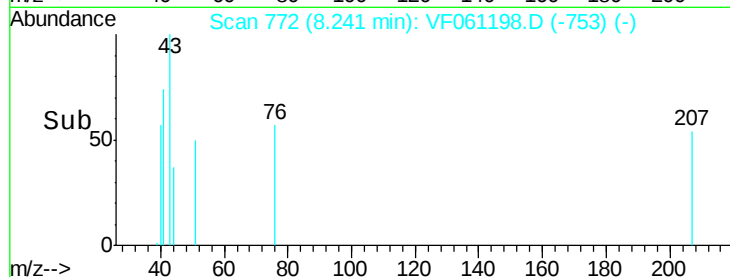
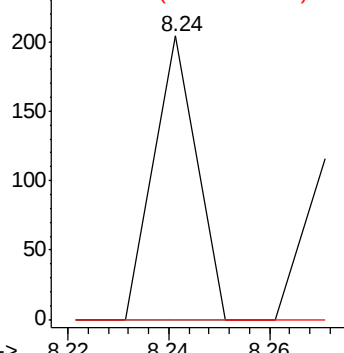
43 100

58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 13.777 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

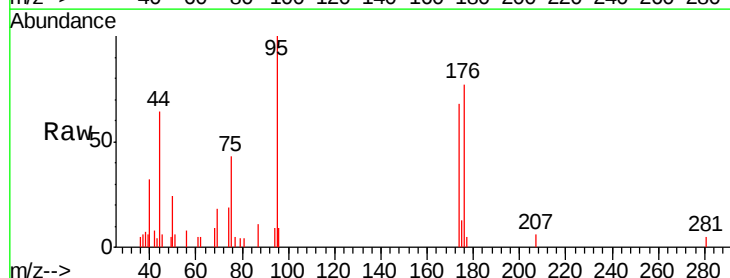
Tgt Ion: 95 Resp: 4311

Ion Ratio Lower Upper

95 100

174 67.7 0.0 143.8

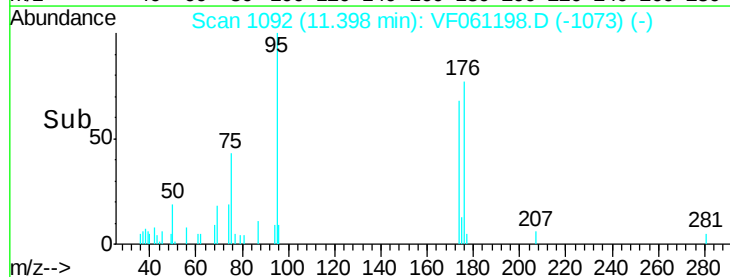
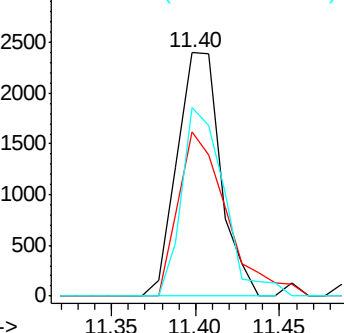
176 77.2 0.0 147.6

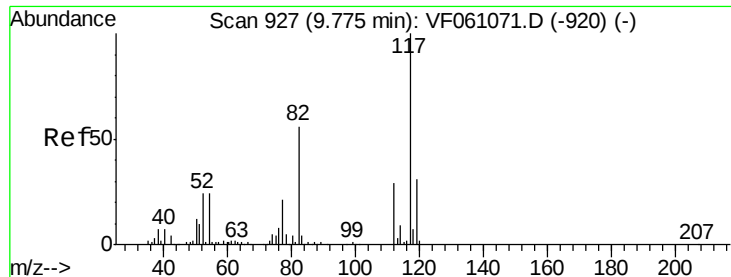


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

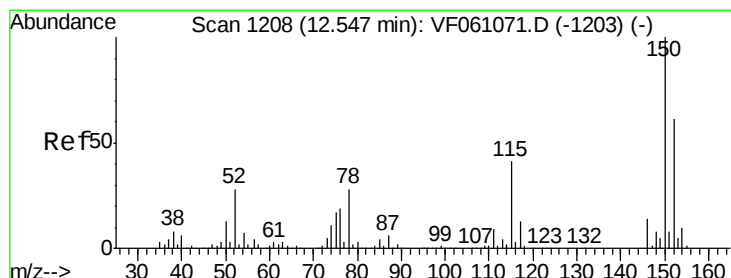
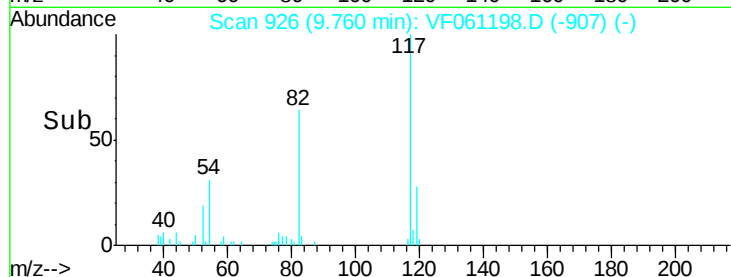
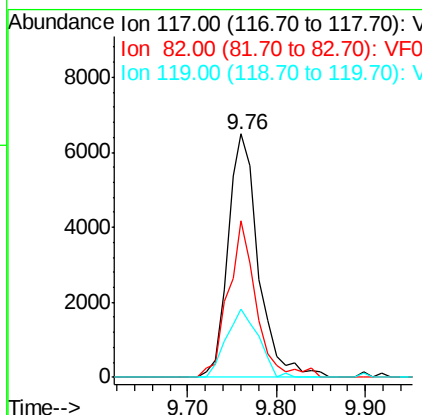
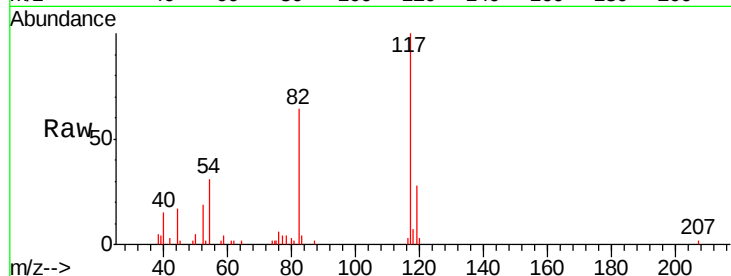




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF061198.D
Acq: 26 Dec 2018 19:56

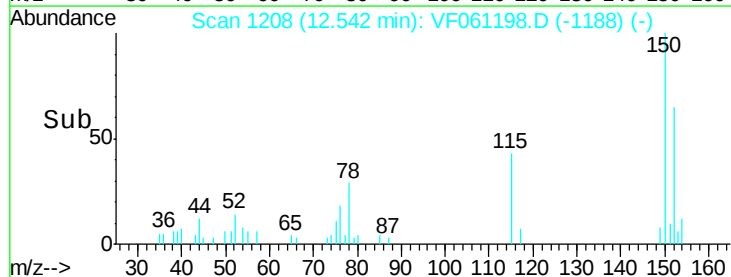
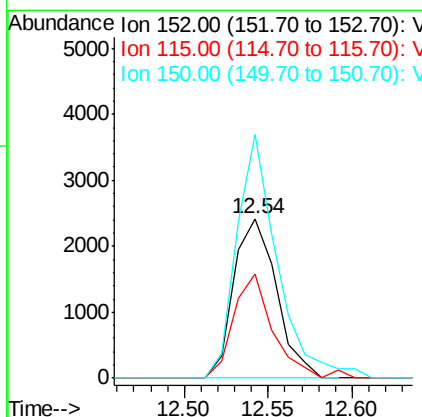
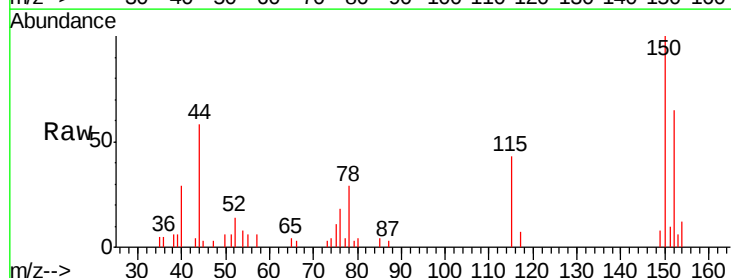
Instrument :
MSVOA_F
ClientSampleId :
P001-SS026-0006-01RE

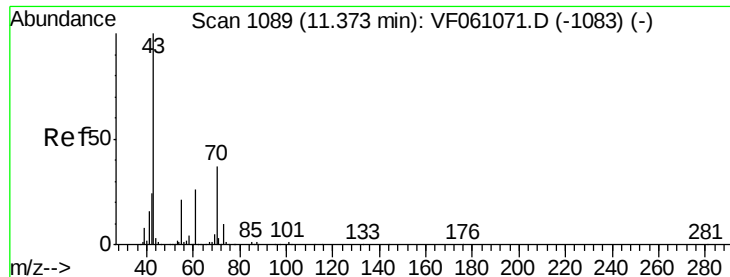
Tgt Ion:117 Resp: 15577
Ion Ratio Lower Upper
117 100
82 64.4 45.0 67.4
119 28.2 24.8 37.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061198.D
Acq: 26 Dec 2018 19:56

Tgt Ion:152 Resp: 4260
Ion Ratio Lower Upper
152 100
115 65.2 33.3 99.9
150 152.7 0.0 328.2





#74

N-ethyl acetate

Concen: 1.472 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

Instrument :

MSVOA_F

ClientSampleId :

P001-SS026-0006-01RE

Tgt Ion: 43 Resp: 120

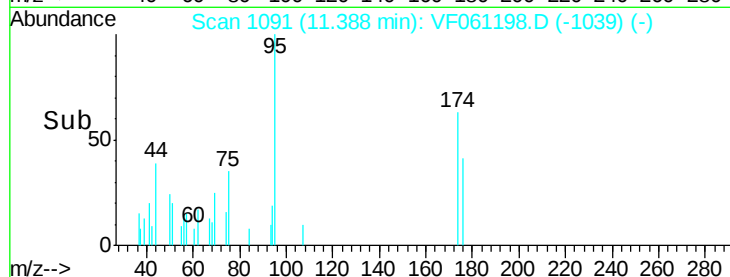
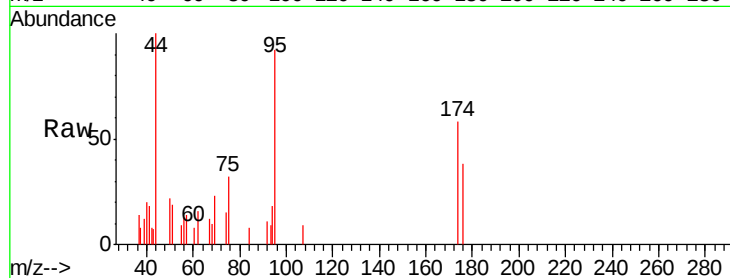
Ion Ratio Lower Upper

43 100

70 0.0 29.2 43.8#

55 117.6 16.5 24.7#

61 0.0 20.7 31.1#

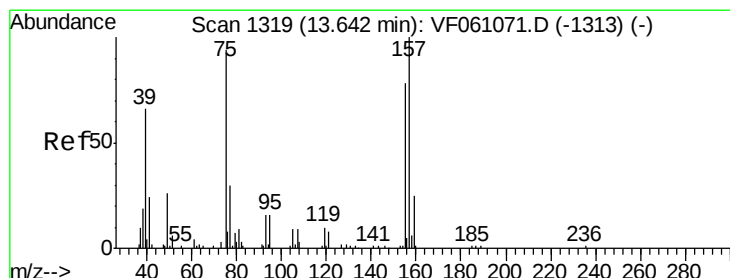
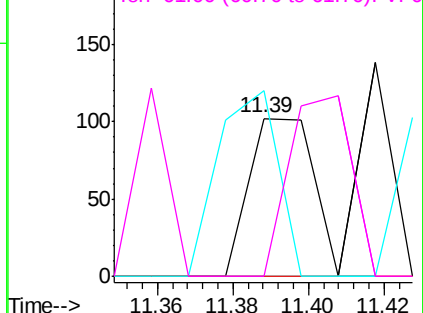


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.635 ug/l

RT: 13.62 min Scan# 1317

Delta R.T. -0.02 min

Lab File: VF061198.D

Acq: 26 Dec 2018 19:56

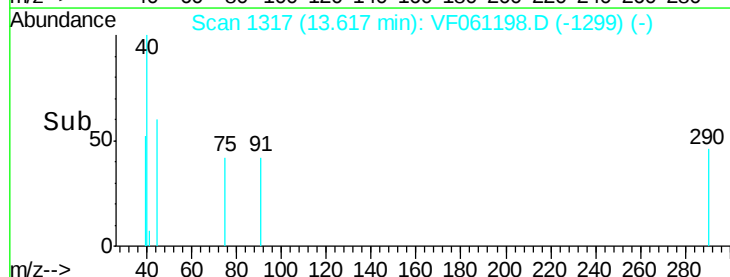
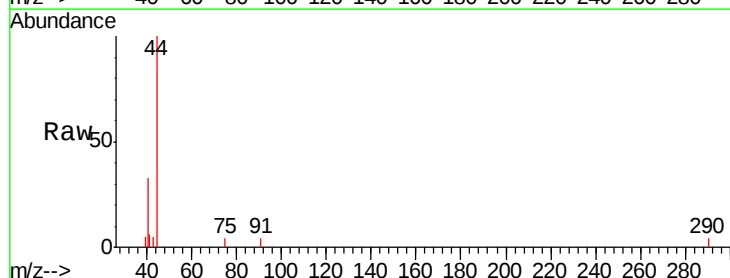
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

157 0.0 53.2 159.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

