

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF032119\
 Data File : VF062064.D
 Acq On : 21 Mar 2019 16:54
 Operator : VA/AP
 Sample : K2018-01
 Misc : 6.71g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-A

Quant Time: Mar 22 08:08:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 03:22:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	224992	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.61	114	358696	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	269497	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	127672	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	90291	55.75	ug/l	0.02
Spiked Amount 50.000			Recovery	=	111.50%	
35) Dibromofluoromethane	4.13	113	129160	53.62	ug/l	0.02
Spiked Amount 50.000			Recovery	=	107.24%	
50) Toluene-d8	7.57	98	271575	38.57	ug/l	0.02
Spiked Amount 50.000			Recovery	=	77.14%	
62) 4-Bromofluorobenzene	11.42	95	115850	41.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.84%	

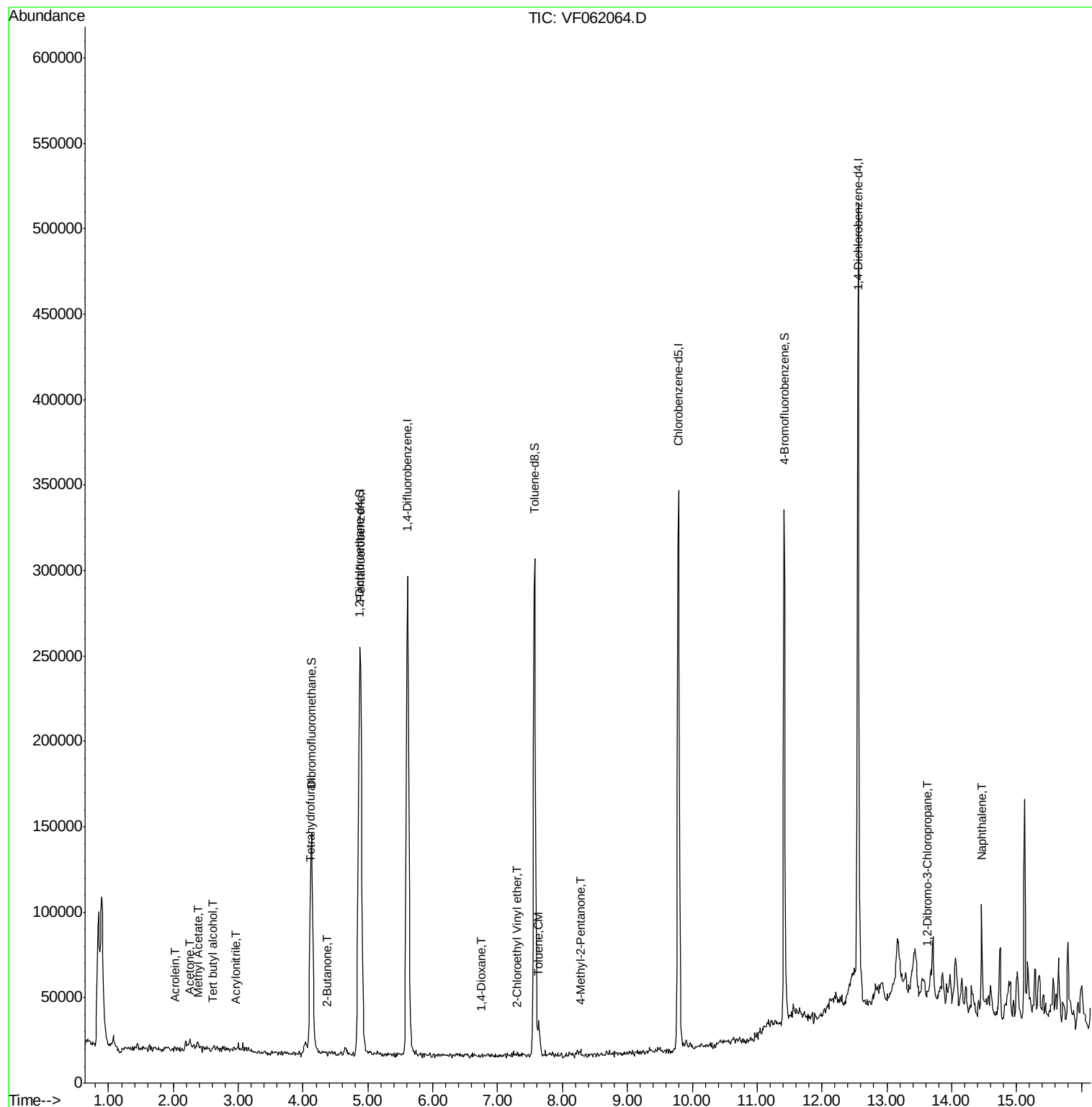
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.60	59	163	1.645	ug/l #	1
13) Acrolein	2.02	56	141	1.318	ug/l #	1
15) Acrylonitrile	2.96	53	650	2.157	ug/l #	33
16) Acetone	2.25	43	7159	19.685	ug/l	91
18) Methyl Acetate	2.36	43	3768	4.572	ug/l #	86
25) 2-Butanone	4.37	43	1368	1.899	ug/l #	51
29) Tetrahydrofuran	4.10	42	1656	5.287	ug/l #	79
49) 1,4-Dioxane	6.73	88	70	7.076	ug/l #	15
51) 4-Methyl-2-Pentanone	8.28	43	2025	1.657	ug/l #	76
52) Toluene	7.64	92	10628	2.027	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.31	63	334	1.108	ug/l #	49
92) 1,2-Dibromo-3-Chloropropan	13.62	75	511	2.187	ug/l #	1
95) Naphthalene	14.46	128	6640	1.426	ug/l #	52

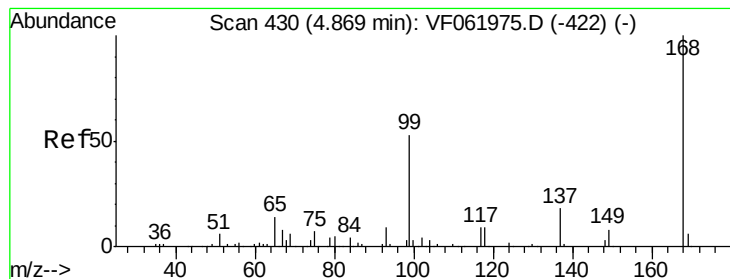
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 03:22:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

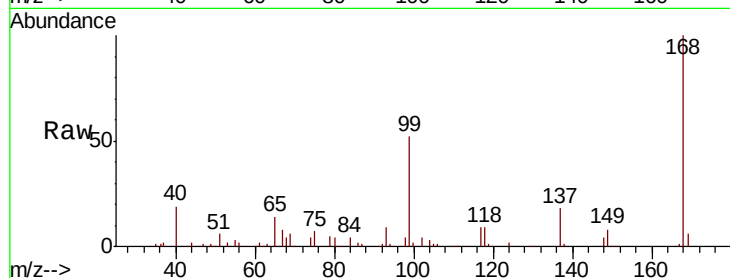
SP-1-A

Tgt Ion:168 Resp: 224992

Ion Ratio Lower Upper

168 100

99 52.3 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

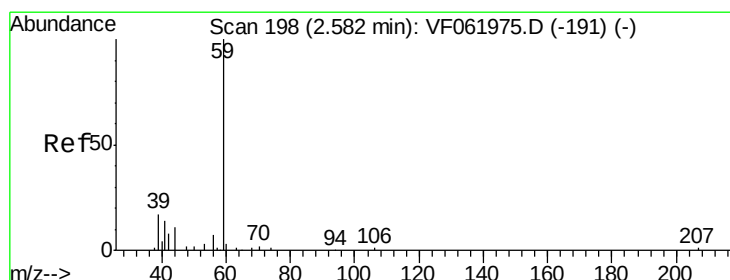
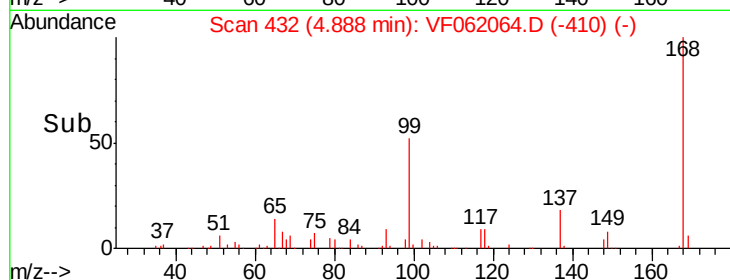
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 1.645 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.02 min

Lab File: VF062064.D

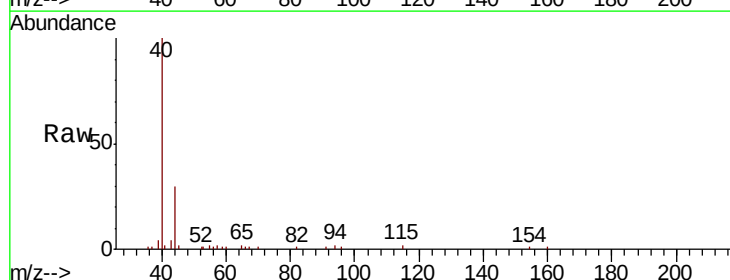
Acq: 21 Mar 2019 16:54

Tgt Ion: 59 Resp: 163

Ion Ratio Lower Upper

59 100

57 115.9 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

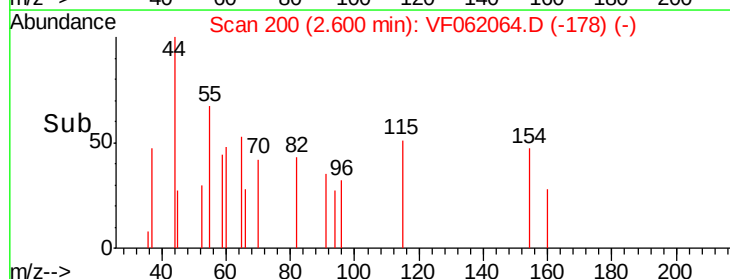
150

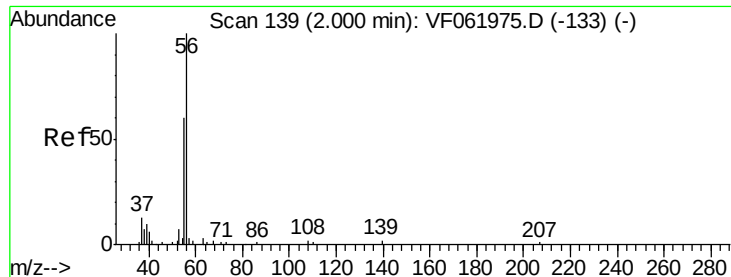
100

50

0

Time--> 2.58 2.60 2.62 2.64





#13

Acrolein

Concen: 1.318 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.02 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

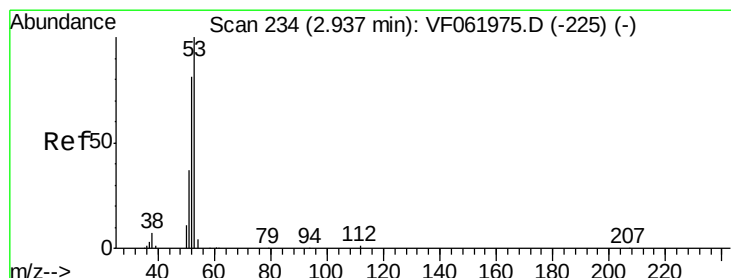
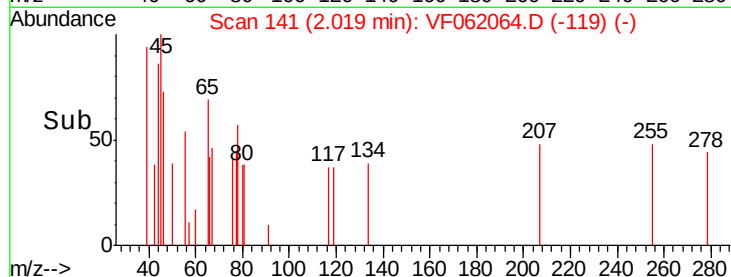
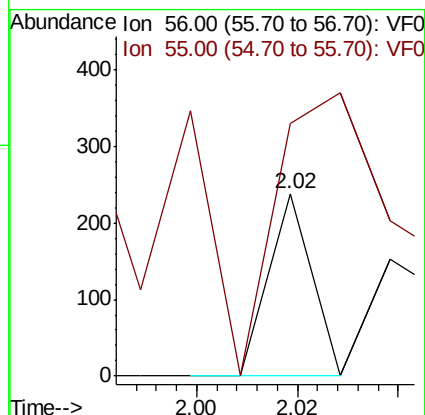
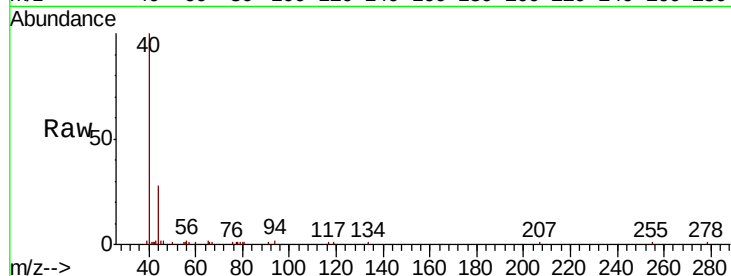
SP-1-A

Tgt Ion: 56 Resp: 141

Ion Ratio Lower Upper

56 100

55 138.2 49.1 73.7#



#15

Acrylonitrile

Concen: 2.157 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

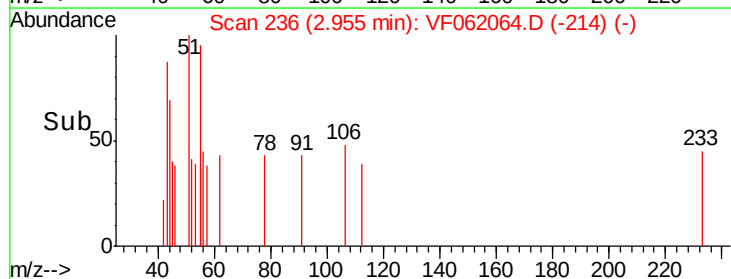
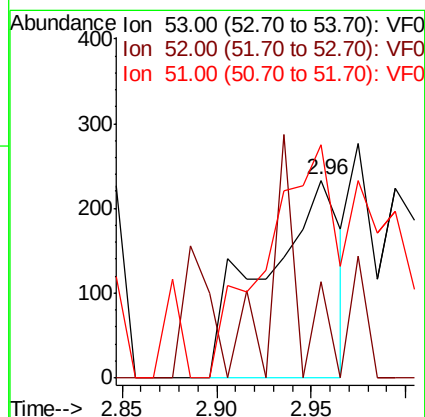
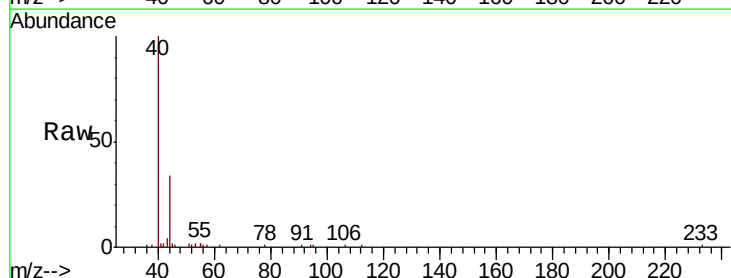
Tgt Ion: 53 Resp: 650

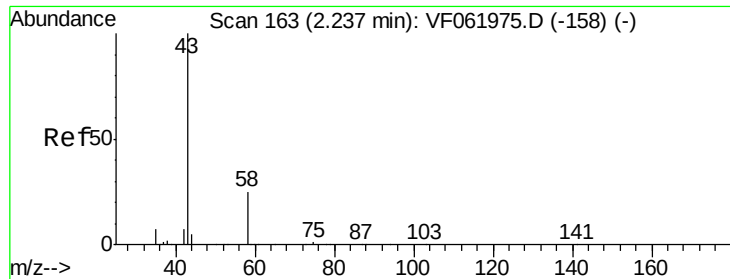
Ion Ratio Lower Upper

53 100

52 48.5 64.4 96.6#

51 118.0 30.3 45.5#





#16

Acetone

Concen: 19.685 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampled :

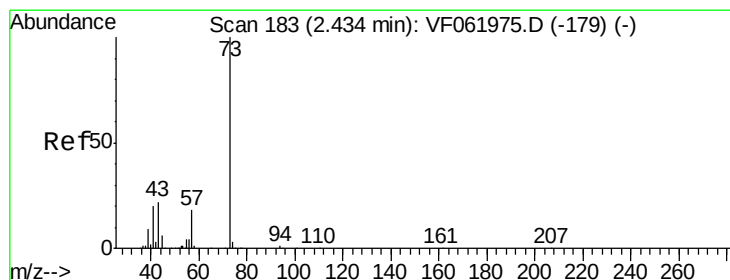
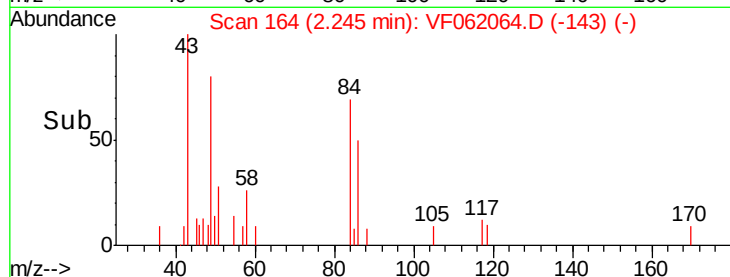
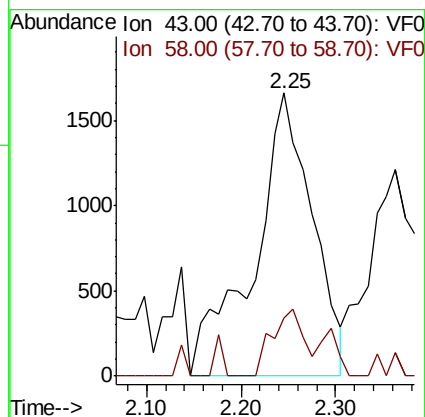
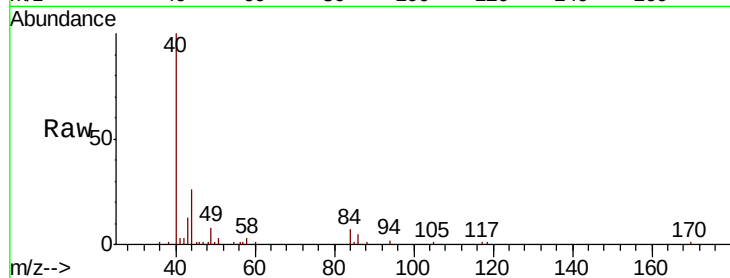
SP-1-A

Tgt Ion: 43 Resp: 7159

Ion Ratio Lower Upper

43 100

58 20.3 19.9 29.9



#18

Methyl Acetate

Concen: 4.572 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.02 min

Lab File: VF062064.D

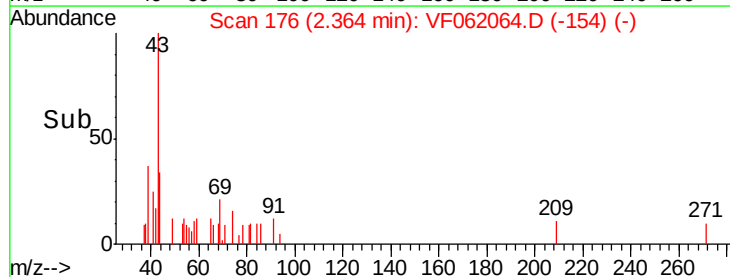
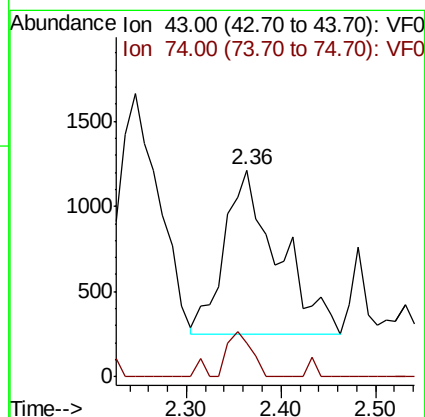
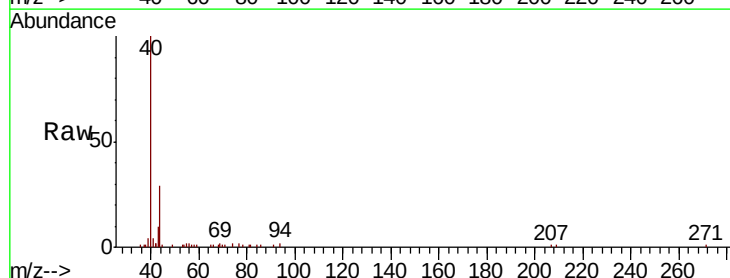
Acq: 21 Mar 2019 16:54

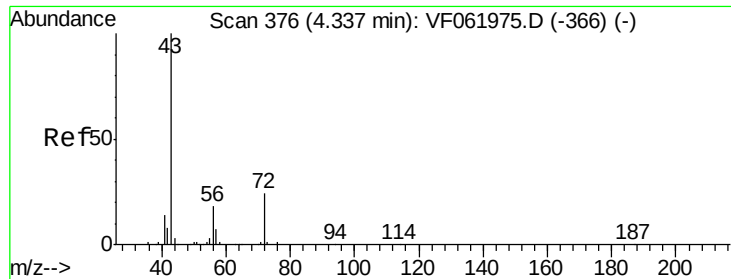
Tgt Ion: 43 Resp: 3768

Ion Ratio Lower Upper

43 100

74 16.3 18.3 27.5#





#25

2-Butanone

Concen: 1.899 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.03 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampled :

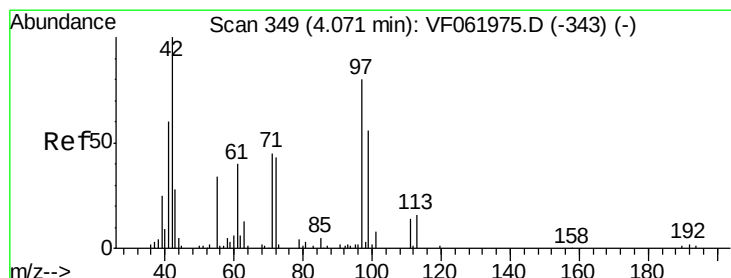
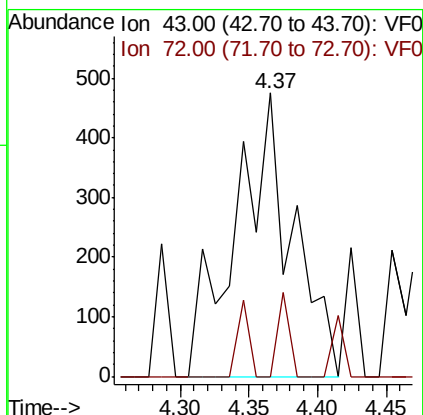
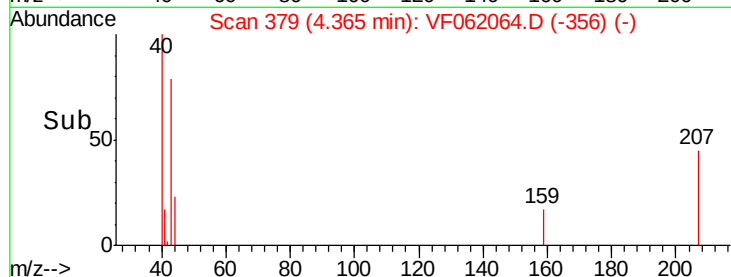
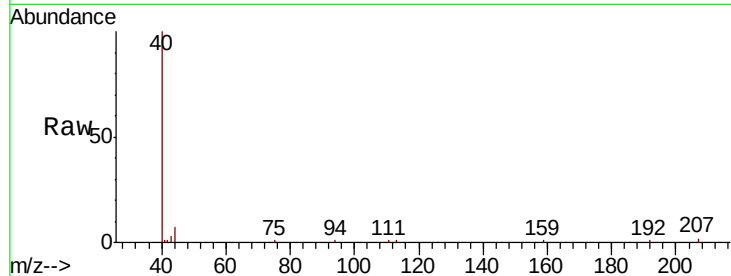
SP-1-A

Tgt Ion: 43 Resp: 1368

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



#29

Tetrahydrofuran

Concen: 5.287 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.03 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

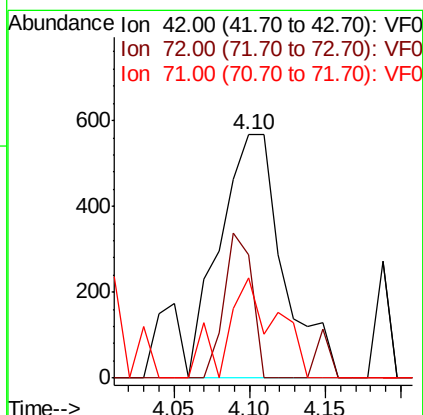
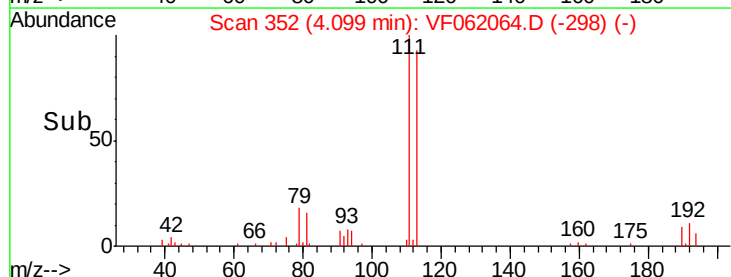
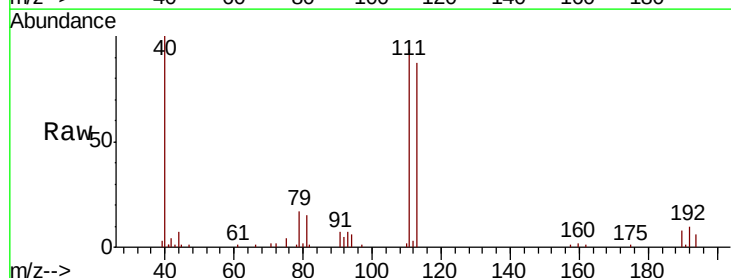
Tgt Ion: 42 Resp: 1656

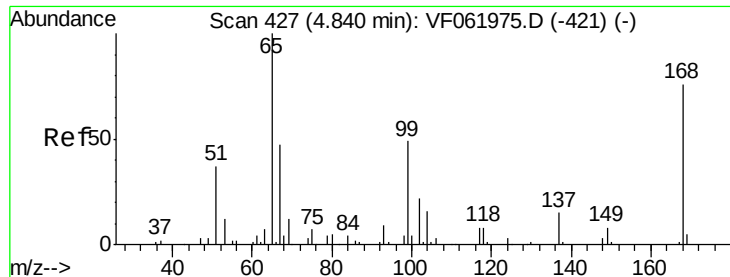
Ion Ratio Lower Upper

42 100

72 26.1 34.0 51.0#

71 32.4 34.2 51.4#

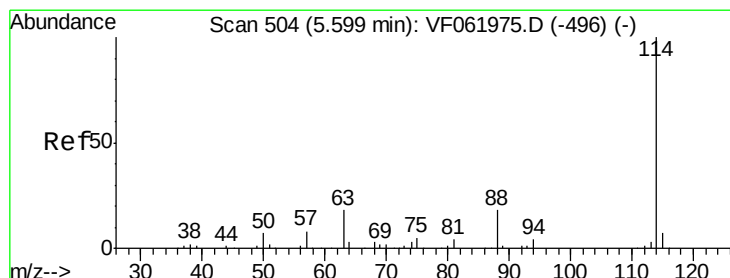
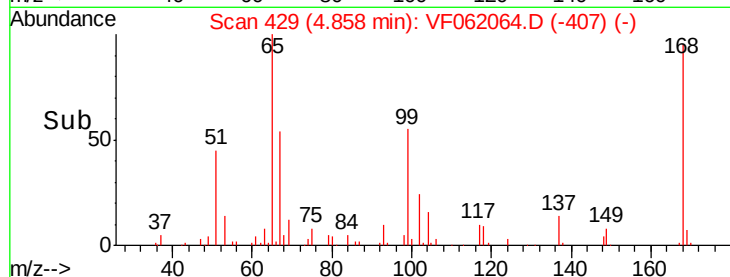
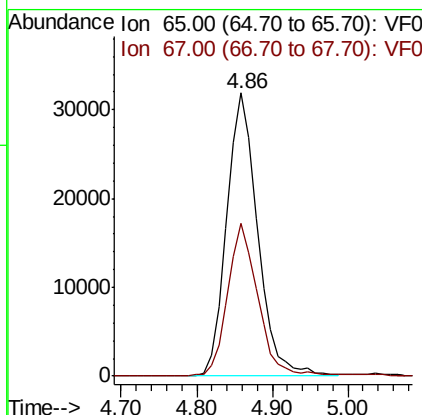
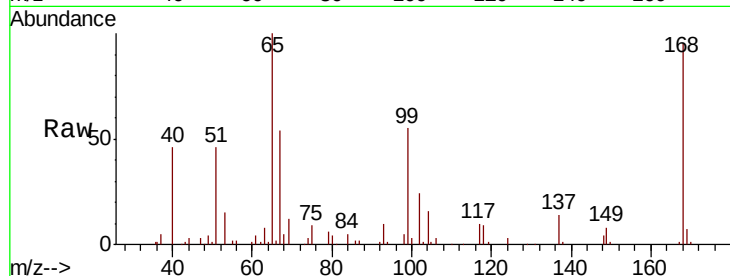




#33
 1,2-Dichloroethane-d4
 Concen: 55.750 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.02 min
 Lab File: VF062064.D
 Acq: 21 Mar 2019 16:54

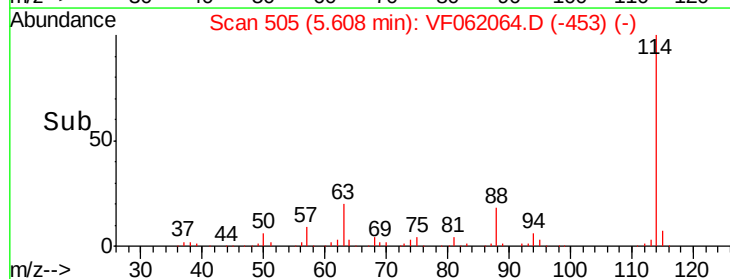
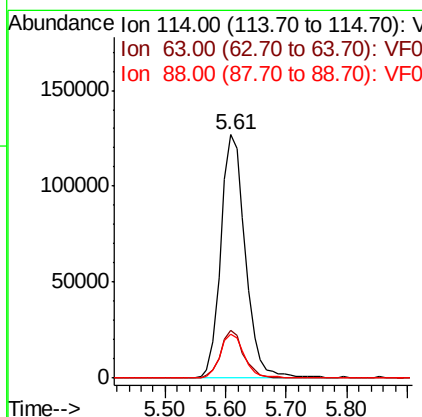
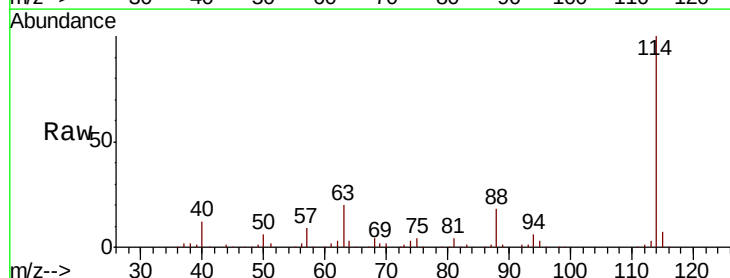
Instrument :
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 SP-1-A

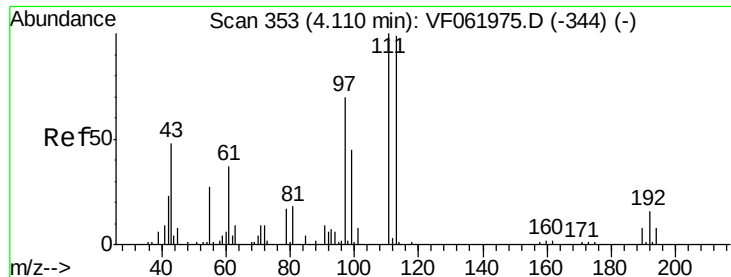
Tgt Ion: 65 Resp: 90291
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VF062064.D
 Acq: 21 Mar 2019 16:54

Tgt Ion: 114 Resp: 358696
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 36.4
 88 18.0 0.0 36.4

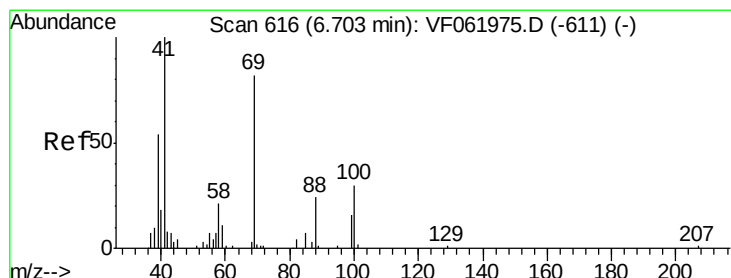
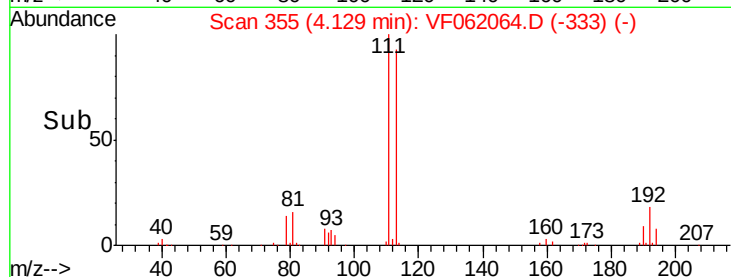
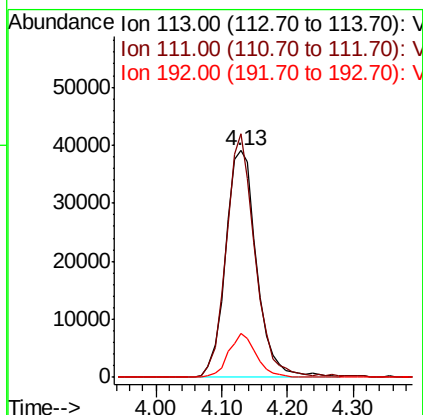
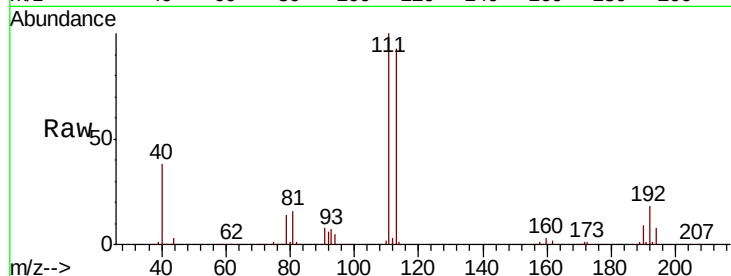




#35
 Dibromofluoromethane
 Concen: 53.622 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.02 min
 Lab File: VF062064.D
 Acq: 21 Mar 2019 16:54

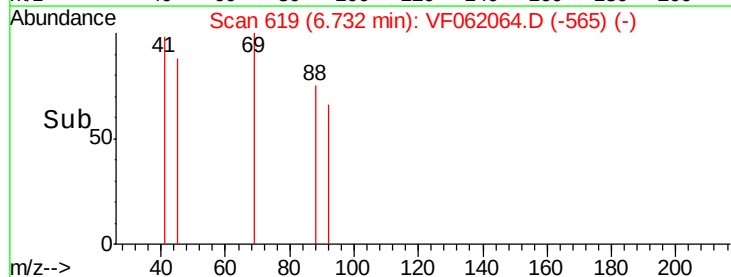
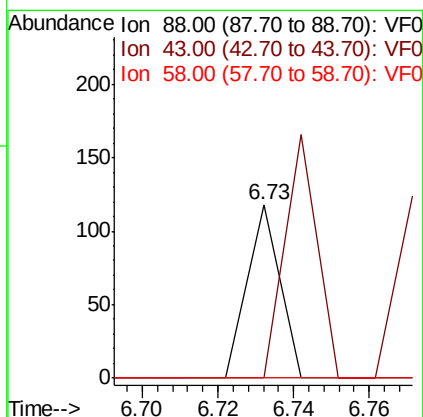
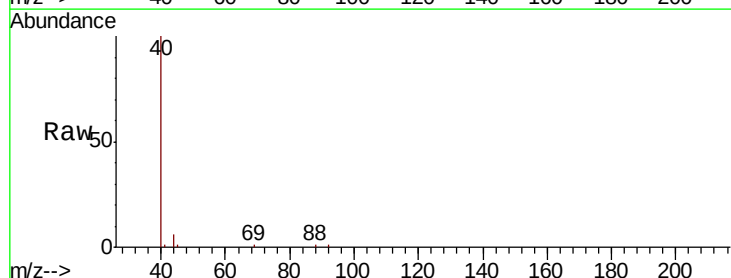
Instrument :
 MSVOA_F
 ClientSampled :
 SP-1-A

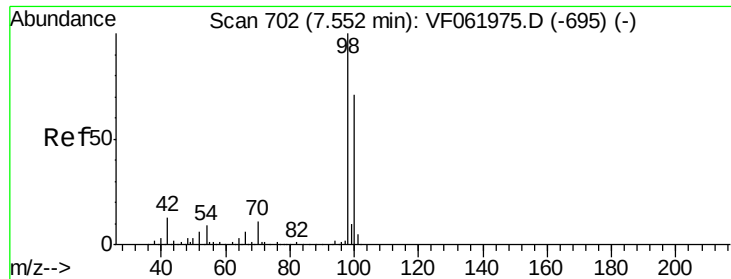
Tgt Ion: 113 Resp: 129160
 Ion Ratio Lower Upper
 113 100
 111 107.3 80.8 121.2
 192 19.5 13.0 19.6



#49
 1,4-Dioxane
 Concen: 7.076 ug/l
 RT: 6.73 min Scan# 619
 Delta R.T. 0.03 min
 Lab File: VF062064.D
 Acq: 21 Mar 2019 16:54

Tgt Ion: 88 Resp: 70
 Ion Ratio Lower Upper
 88 100
 43 0.0 31.2 46.8#
 58 0.0 69.9 104.9#





#50

Toluene-d8

Concen: 38.568 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

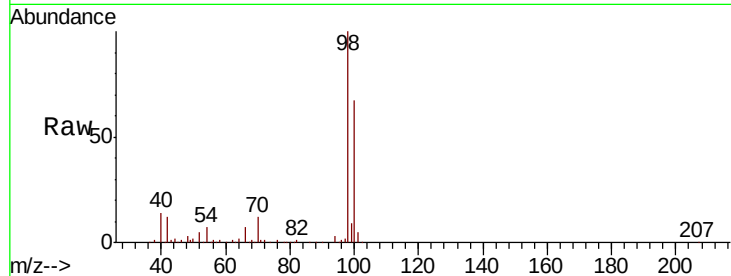
SP-1-A

Tgt Ion: 98 Resp: 271575

Ion Ratio Lower Upper

98 100

100 67.4 56.8 85.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.57

120000

100000

80000

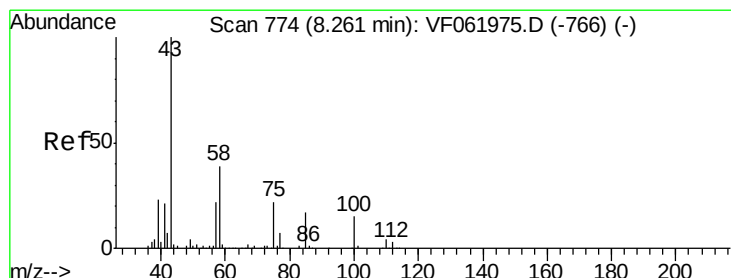
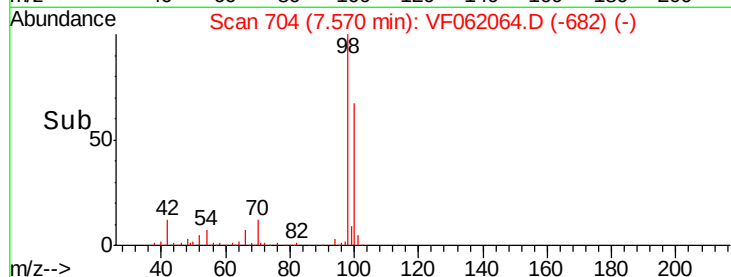
60000

40000

20000

0

Time--> 7.40 7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 1.657 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.02 min

Lab File: VF062064.D

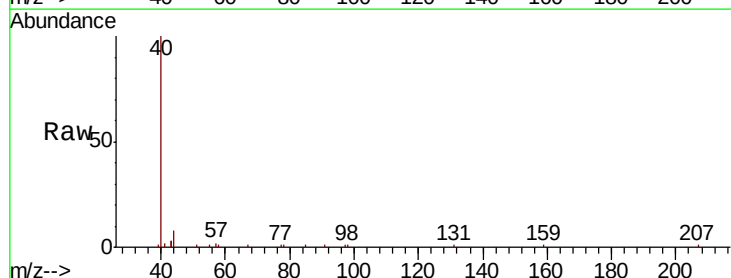
Acq: 21 Mar 2019 16:54

Tgt Ion: 43 Resp: 2025

Ion Ratio Lower Upper

43 100

58 24.4 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

1000

800

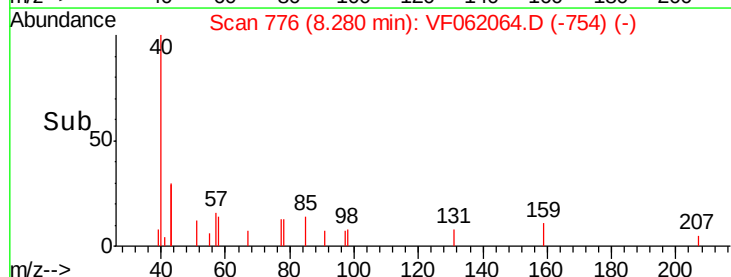
600

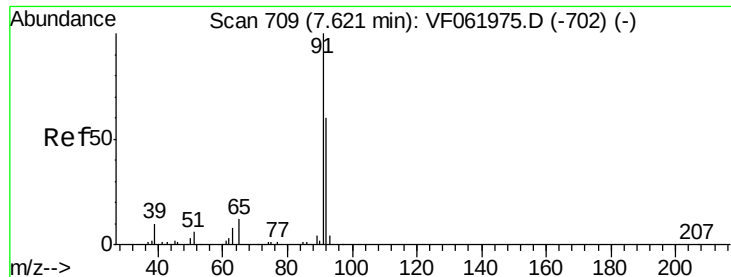
400

200

0

Time--> 8.20 8.25 8.30 8.35





#52

Toluene

Concen: 2.027 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

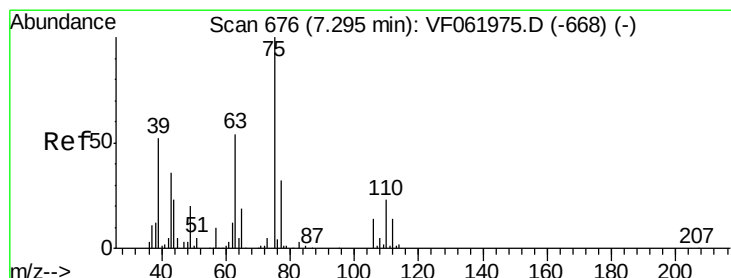
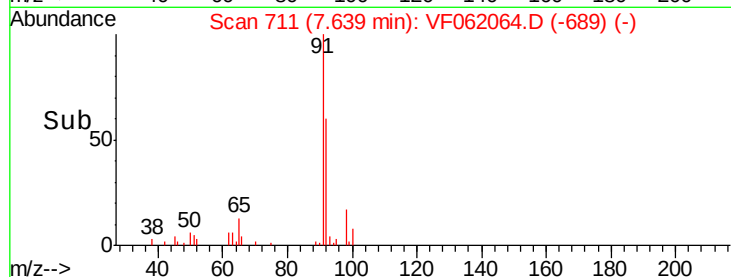
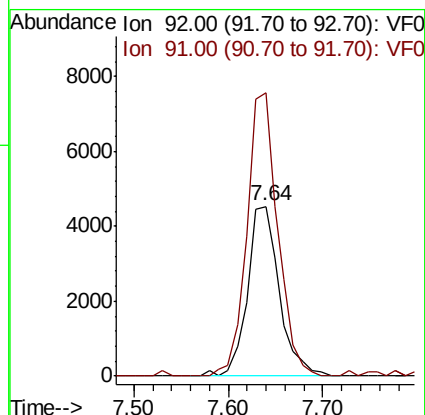
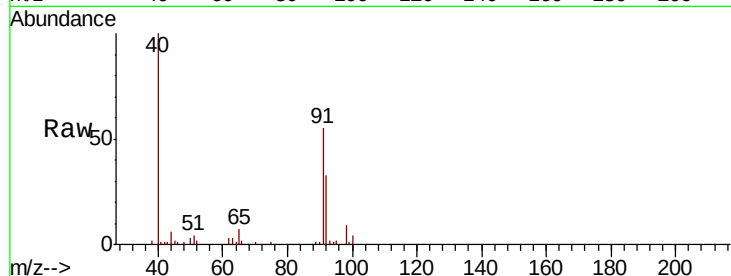
SP-1-A

Tgt Ion: 92 Resp: 10628

Ion Ratio Lower Upper

92 100

91 166.8 134.0 201.0



#58

2-Chloroethyl Vinyl ether

Concen: 1.108 ug/l

RT: 7.31 min Scan# 678

Delta R.T. 0.02 min

Lab File: VF062064.D

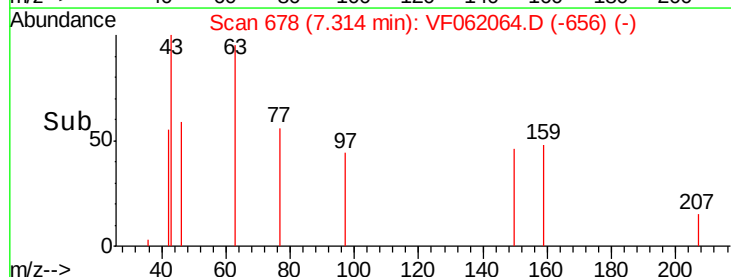
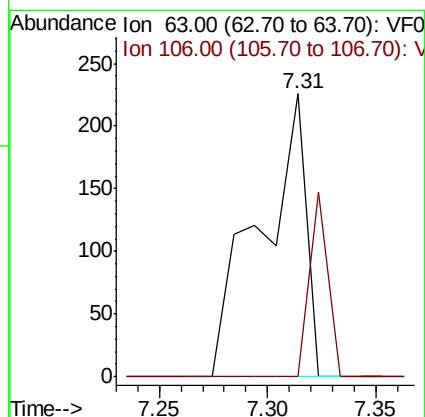
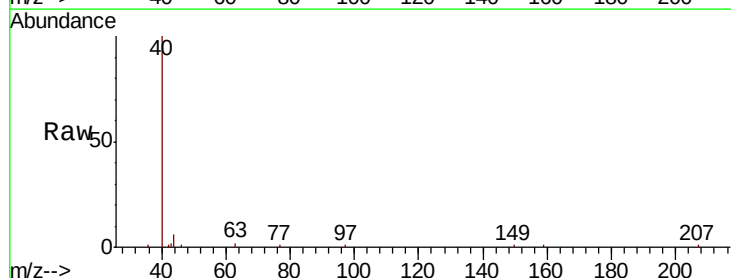
Acq: 21 Mar 2019 16:54

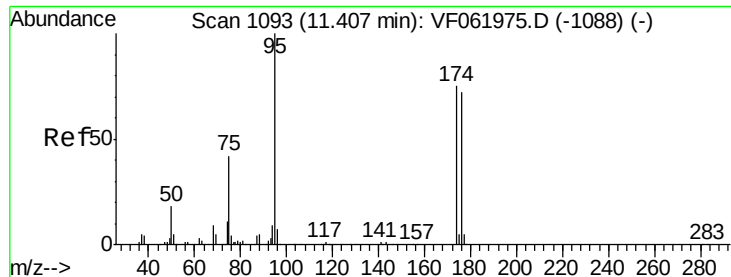
Tgt Ion: 63 Resp: 334

Ion Ratio Lower Upper

63 100

106 0.0 20.9 31.3#





#62

4-Bromofluorobenzene

Concen: 41.415 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

SP-1-A

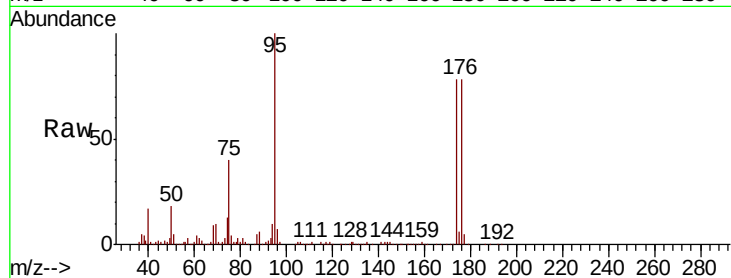
Tgt Ion: 95 Resp: 115850

Ion Ratio Lower Upper

95 100

174 78.4 0.0 149.4

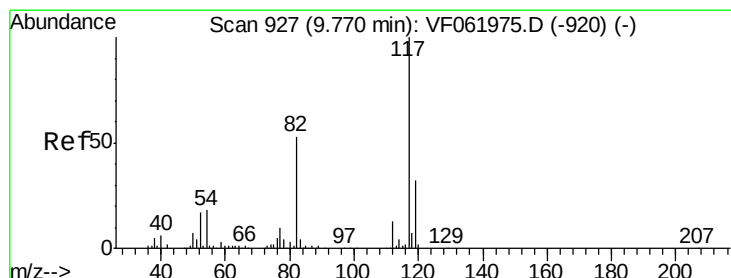
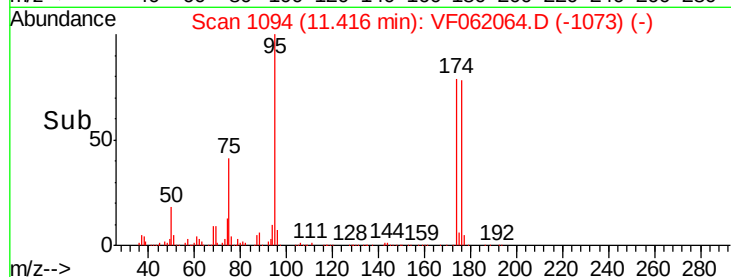
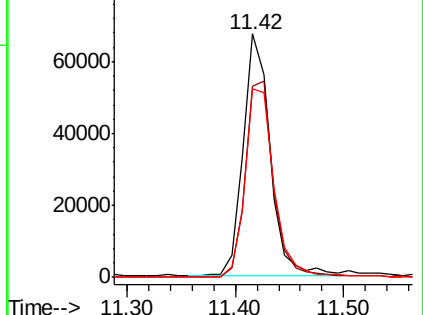
176 77.5 0.0 143.4



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: 9.79 min Scan# 929

Delta R.T. 0.02 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

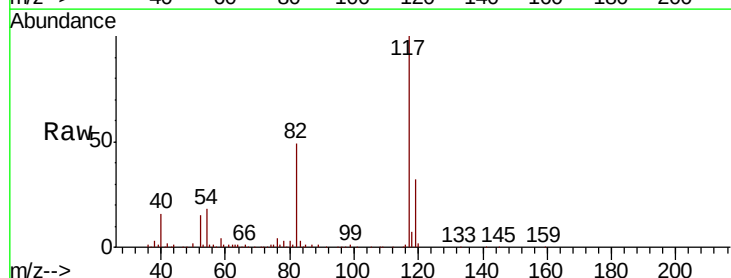
Tgt Ion: 117 Resp: 269497

Ion Ratio Lower Upper

117 100

82 49.0 42.5 63.7

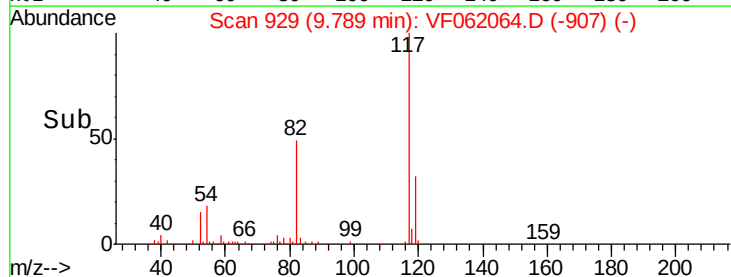
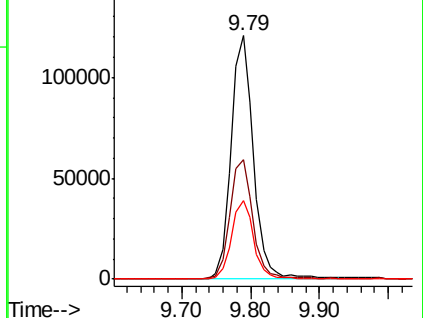
119 32.3 25.4 38.0

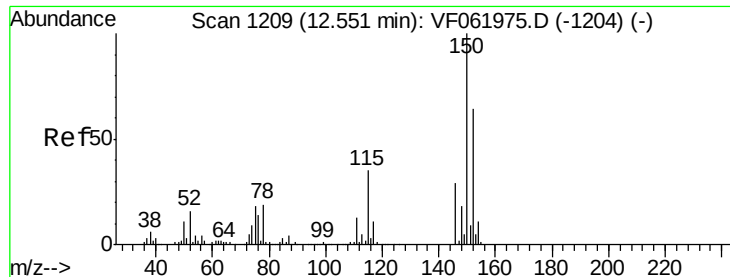


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

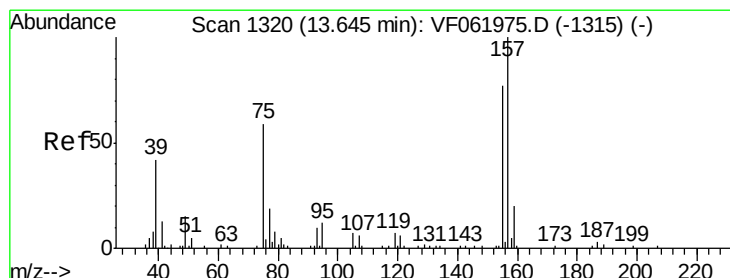
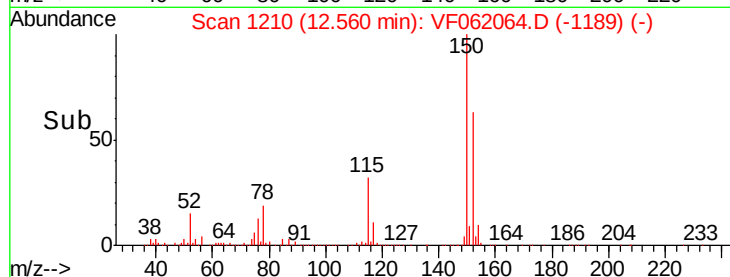
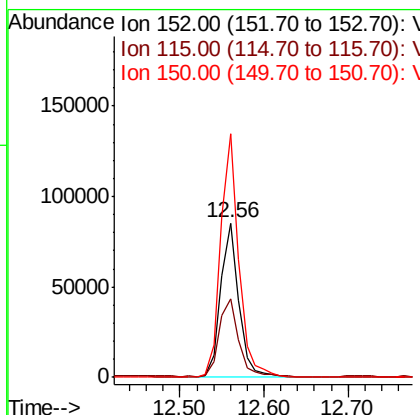
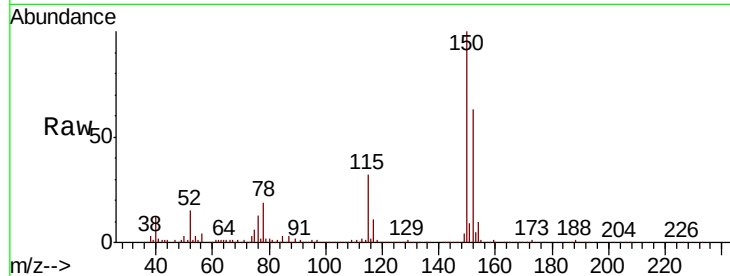




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.01 min
 Lab File: VF062064.D
 Acq: 21 Mar 2019 16:54

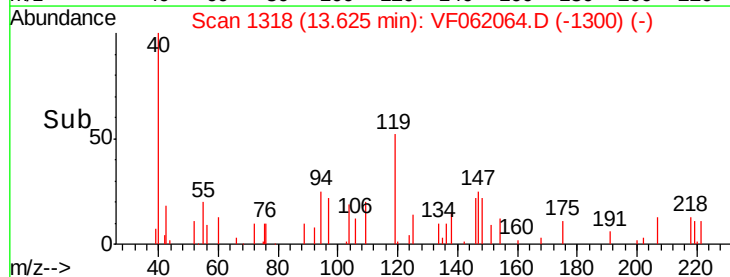
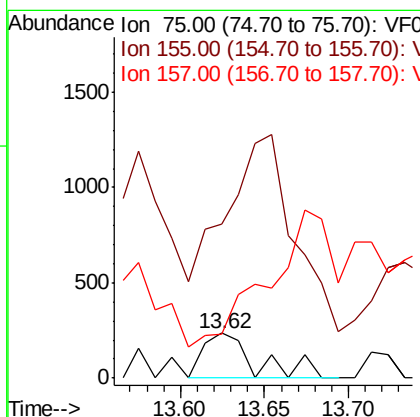
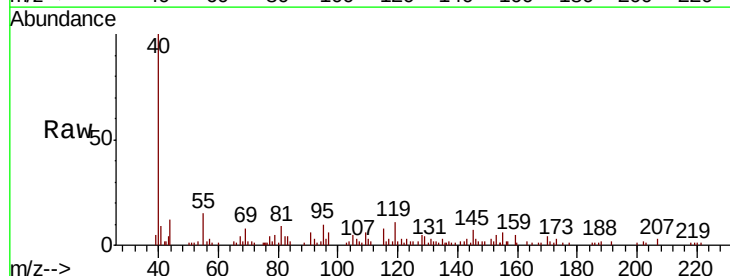
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-A

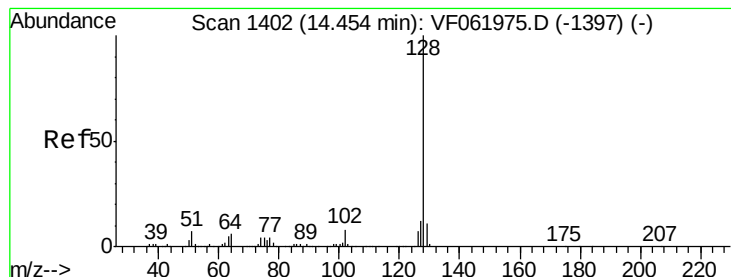
Tgt Ion: 152 Resp: 127672
 Ion Ratio Lower Upper
 152 100
 115 51.3 27.3 81.9
 150 158.1 0.0 316.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.187 ug/l
 RT: 13.62 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF062064.D
 Acq: 21 Mar 2019 16:54

Tgt Ion: 75 Resp: 511
 Ion Ratio Lower Upper
 75 100
 155 341.8 65.0 195.1#
 157 97.0 84.7 254.0





#95

Naphthalene

Concen: 1.426 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF062064.D

Acq: 21 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

SP-1-A

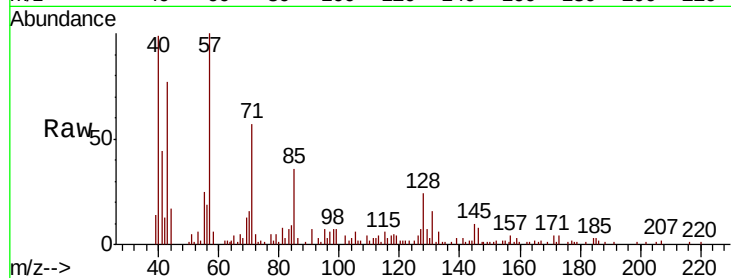
Tgt Ion:128 Resp: 6640

Ion Ratio Lower Upper

128 100

127 30.5 9.3 13.9#

129 29.6 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

