

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF061818\
 Data File : VF059187.D
 Acq On : 18 Jun 2018 20:34
 Operator : VA/AP
 Sample : J3538-01
 Misc : 5.10g/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SS-T-4-STONE

Quant Time: Jun 19 02:58:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	240486	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	375690	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	310938	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	131305	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	161672	55.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.86%	
35) Dibromofluoromethane	4.28	113	148497	56.33	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	112.66%	
50) Toluene-d8	7.70	98	330481	42.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.34%	
62) 4-Bromofluorobenzene	11.51	95	138566	34.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	69.76%	

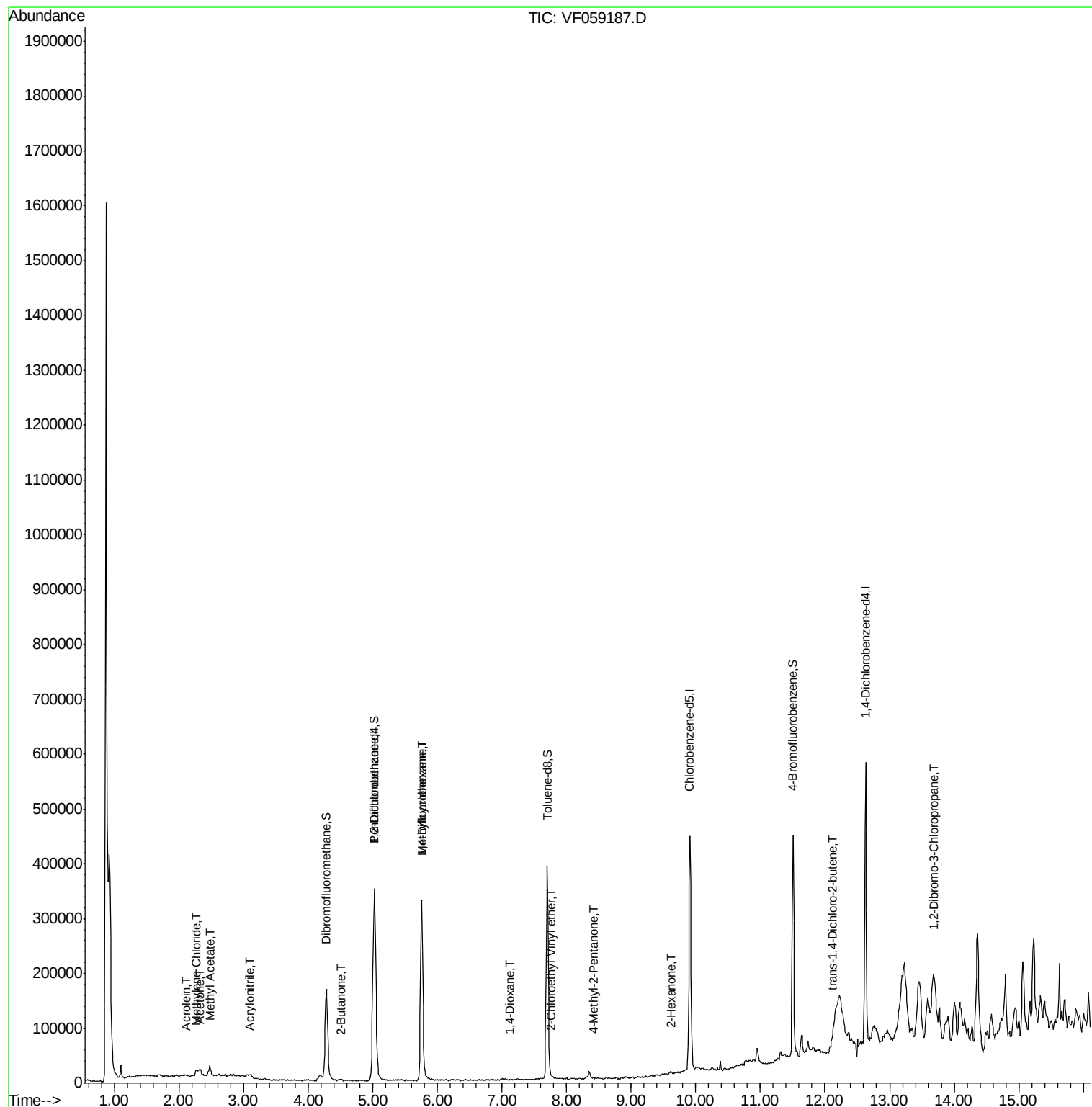
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.11	56	588	3.635	ug/l	100
15) Acrylonitrile	3.11	53	576	1.552	ug/l #	27
16) Acetone	2.33	43	11202	16.086	ug/l #	85
18) Methyl Acetate	2.48	43	11647	9.729	ug/l #	84
20) Methylene Chloride	2.27	84	3915	2.348	ug/l #	85
25) 2-Butanone	4.52	43	3597	3.332	ug/l	93
39) Methylcyclohexane	5.75	83	4741	1.277	ug/l #	45
49) 1,4-Dioxane	7.11	88	65	17.368	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	2161	1.046	ug/l #	71
58) 2-Chloroethyl Vinyl ether	7.77	63	353	1.775	ug/l	100
59) 2-Hexanone	9.63	43	3175	1.943	ug/l	70
81) trans-1,4-Dichloro-2-buten	12.11	75	1121	1.086	ug/l	87
89) n-Butylbenzene	12.94	91	2259	Below Cal	#	57
92) 1,2-Dibromo-3-Chloropropan	13.67	75	5054	11.955	ug/l #	1

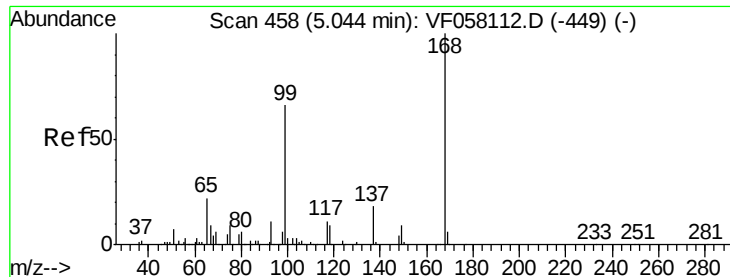
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

Instrument :

MSVOA_F

ClientSampleId :

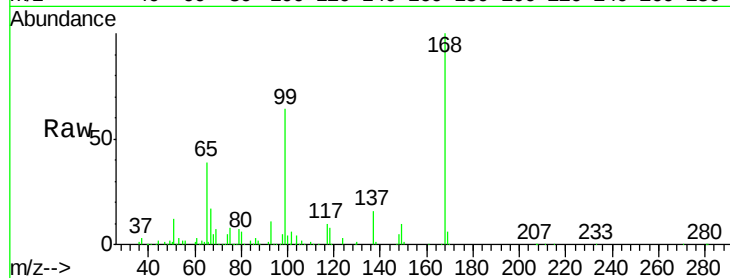
SS-T-4-STONE

Tgt Ion:168 Resp: 240486

Ion Ratio Lower Upper

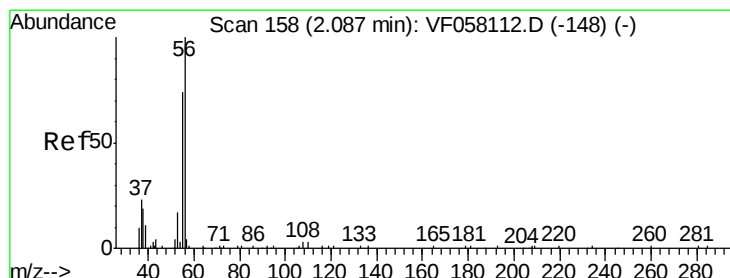
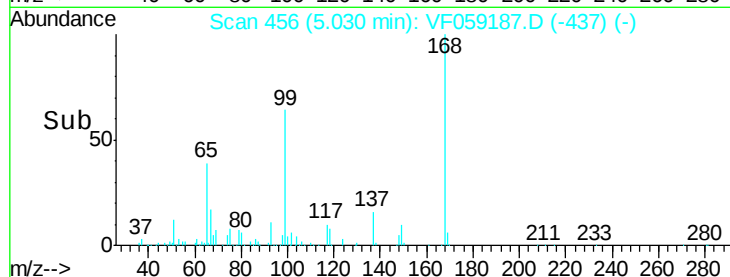
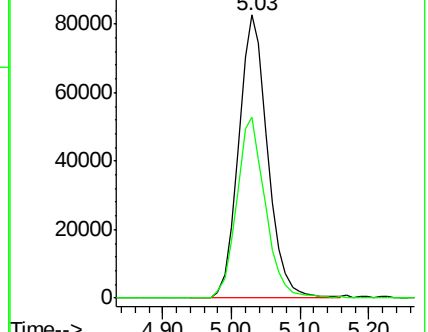
168 100

99 63.9 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 3.635 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.02 min

Lab File: VF059187.D

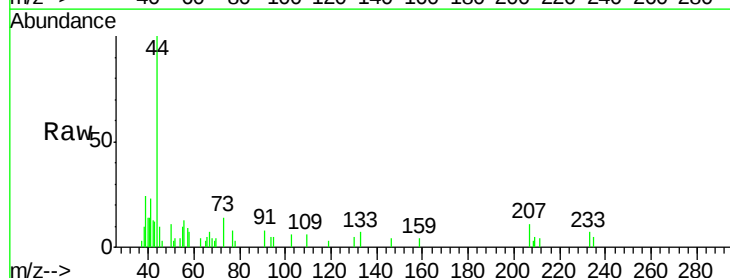
Acq: 18 Jun 2018 20:34

Tgt Ion: 56 Resp: 588

Ion Ratio Lower Upper

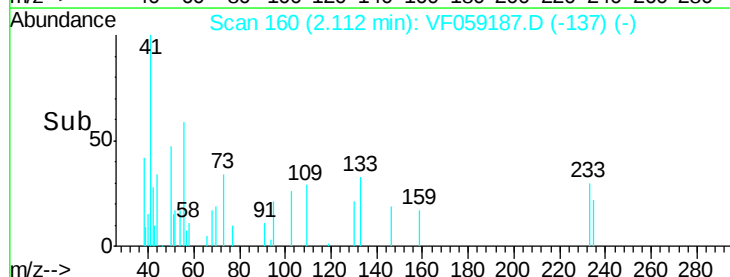
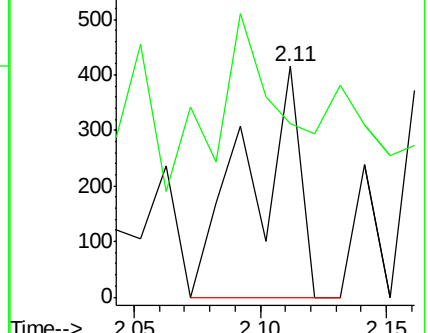
56 100

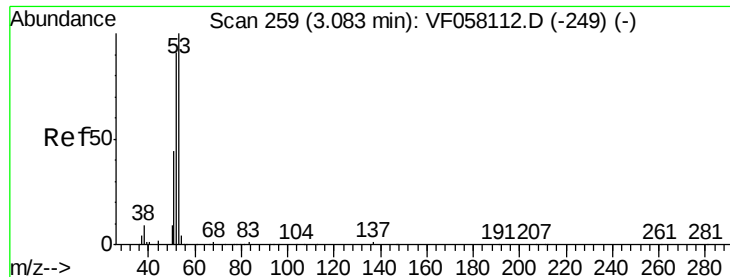
55 75.2 60.0 90.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 1.552 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

Instrument :

MSVOA_F

ClientSampleId :

SS-T-4-STONE

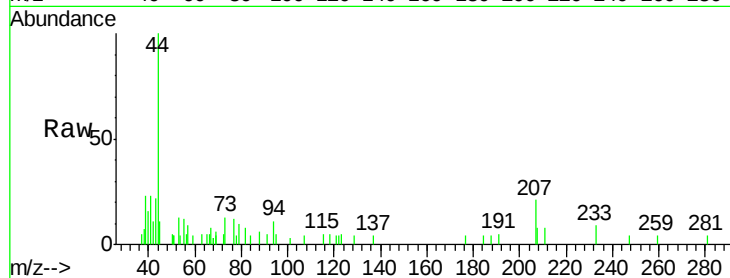
Tgt Ion: 53 Resp: 576

Ion Ratio Lower Upper

53 100

52 0.0 73.2 109.8#

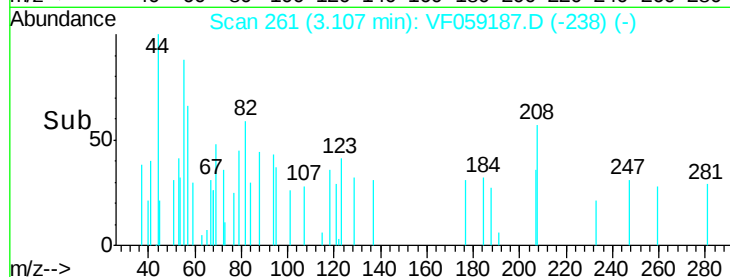
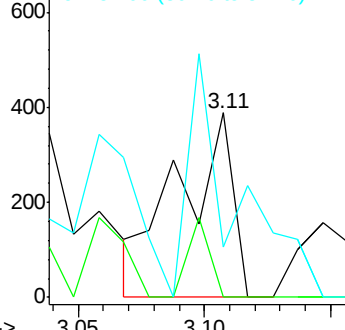
51 27.3 35.6 53.4#



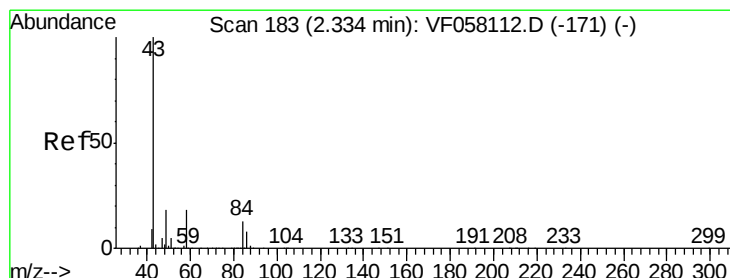
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 16.086 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059187.D

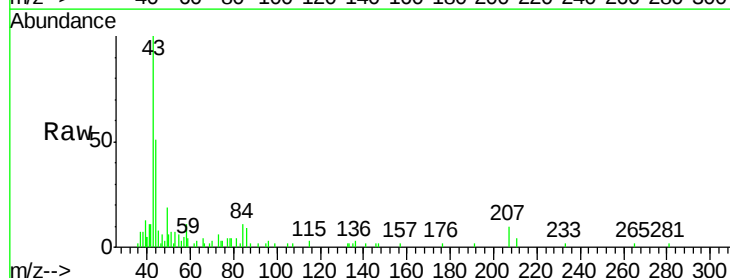
Acq: 18 Jun 2018 20:34

Tgt Ion: 43 Resp: 11202

Ion Ratio Lower Upper

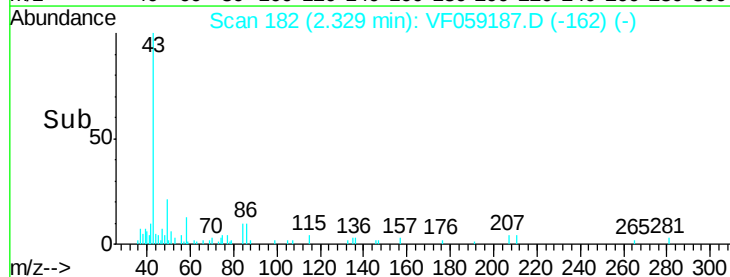
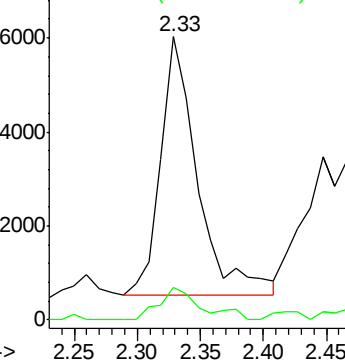
43 100

58 11.4 14.4 21.6#

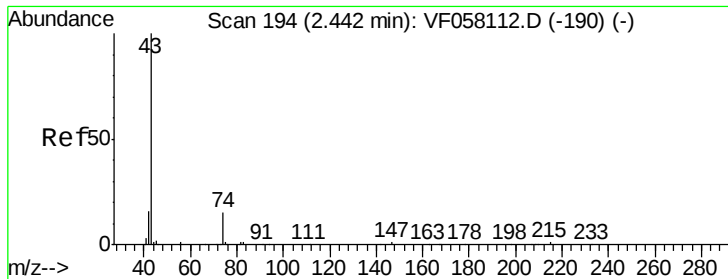


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



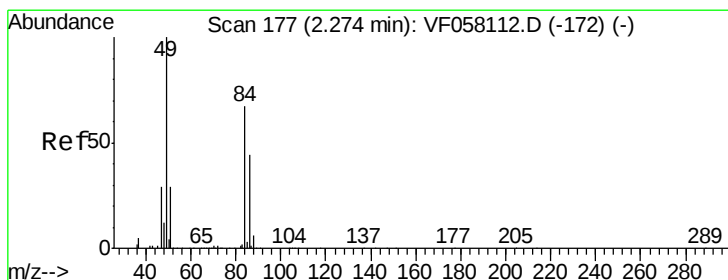
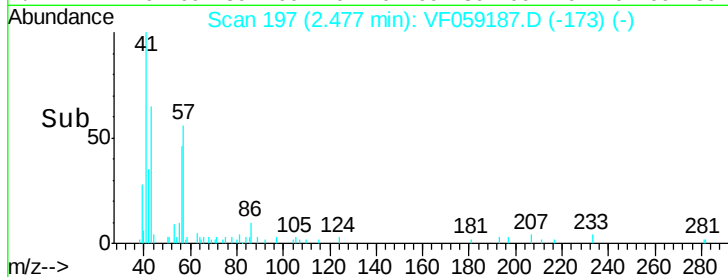
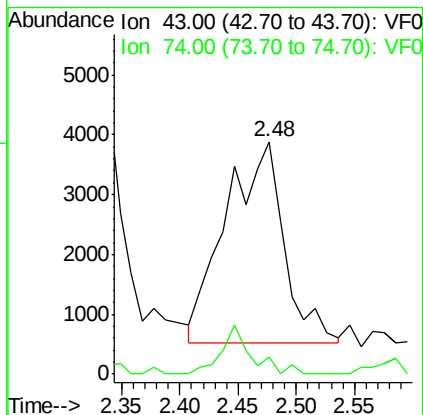
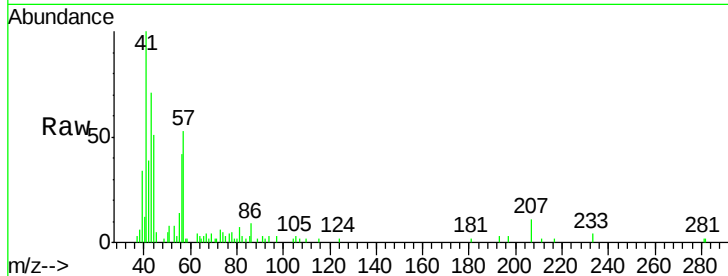
Time-->



#18
Methyl Acetate
Concen: 9.729 ug/l
RT: 2.48 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059187.D
Acq: 18 Jun 2018 20:34

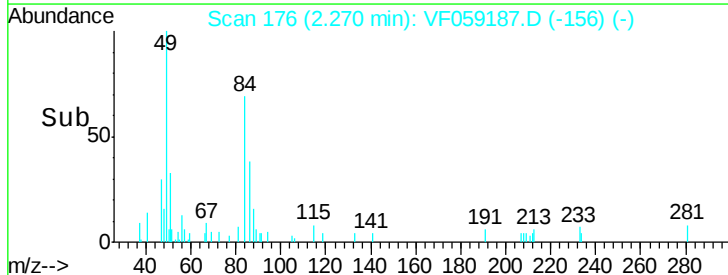
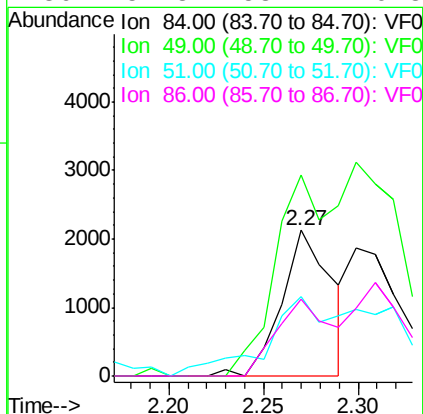
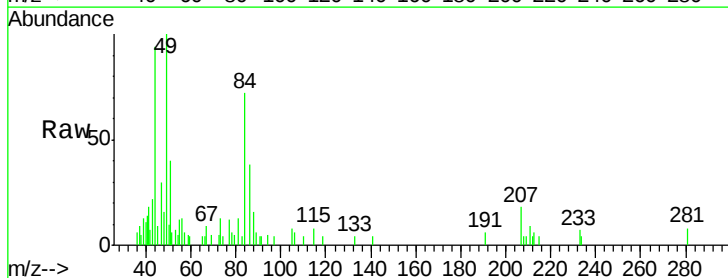
Instrument :
MSVOA_F
ClientSampleId :
SS-T-4-STONE

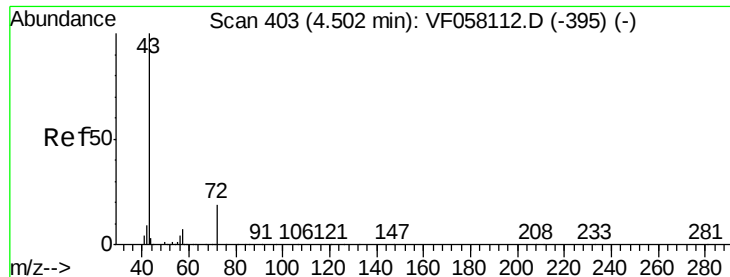
Tgt Ion: 43 Resp: 11647
Ion Ratio Lower Upper
43 100
74 7.1 10.9 16.3#



#20
Methylene Chloride
Concen: 2.348 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059187.D
Acq: 18 Jun 2018 20:34

Tgt Ion: 84 Resp: 3915
Ion Ratio Lower Upper
84 100
49 137.9 121.0 181.4
51 63.0 35.8 53.6#
86 52.8 53.2 79.8#





#25

2-Butanone

Concen: 3.332 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

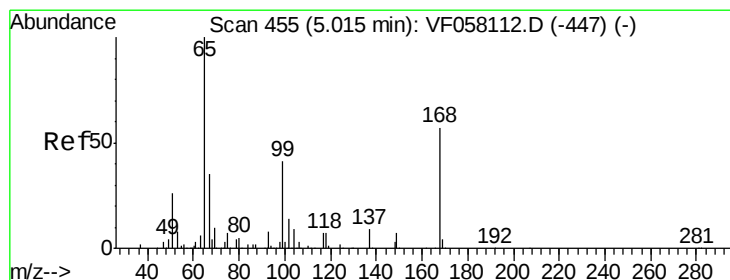
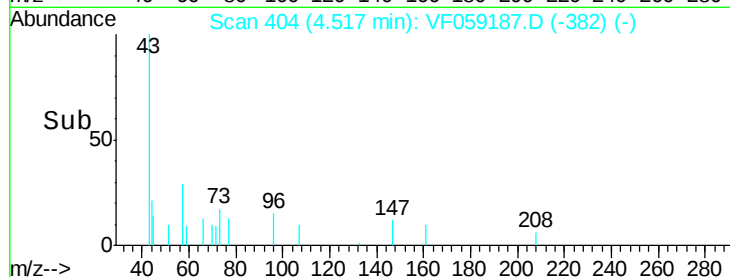
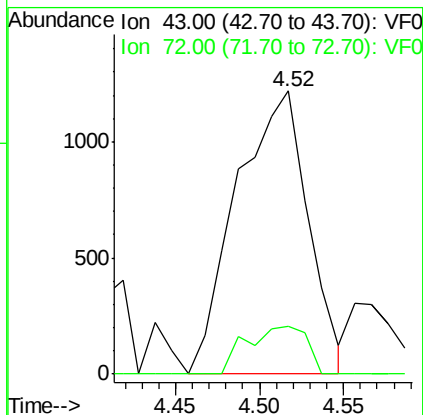
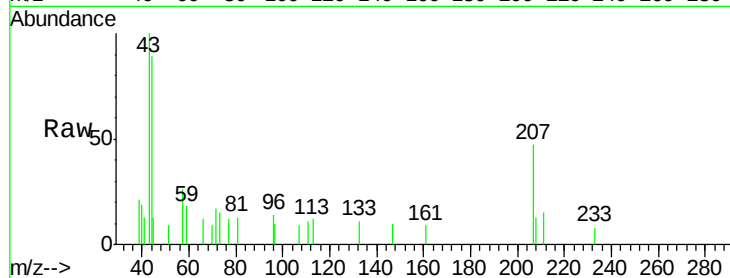
Instrument :
MSVOA_F
ClientSampleId :
SS-T-4-STONE

Tgt Ion: 43 Resp: 3597

Ion Ratio Lower Upper

43 100

72 17.0 16.1 24.1



#33

1,2-Dichloroethane-d4

Concen: 55.432 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059187.D

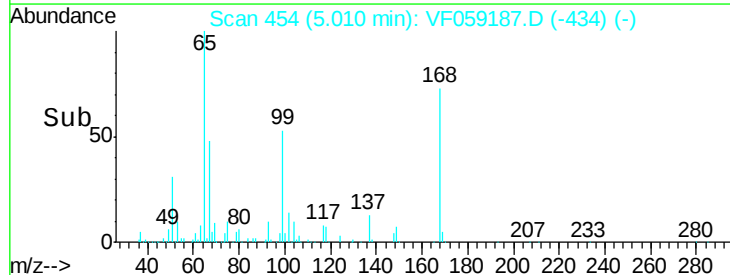
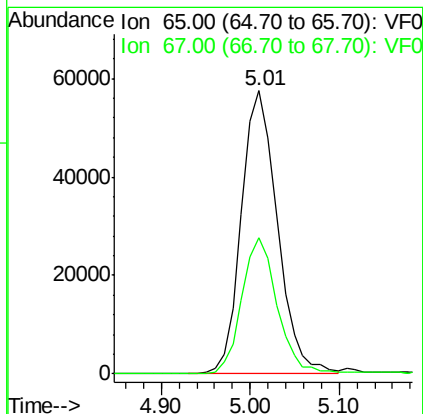
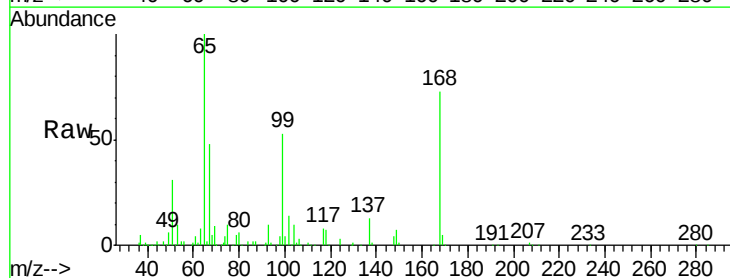
Acq: 18 Jun 2018 20:34

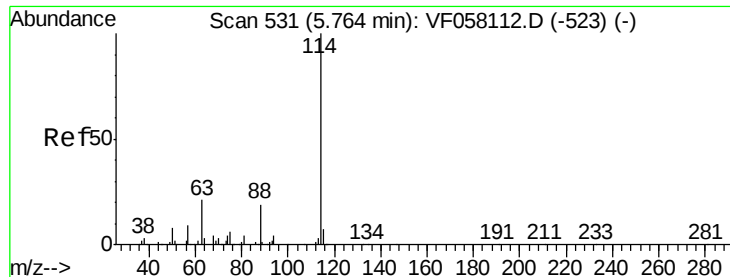
Tgt Ion: 65 Resp: 161672

Ion Ratio Lower Upper

65 100

67 48.2 0.0 97.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

Instrument :

MSVOA_F

ClientSampleId :

SS-T-4-STONE

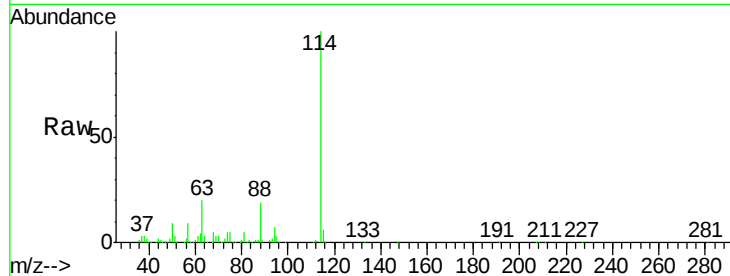
Tgt Ion:114 Resp: 375690

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.6

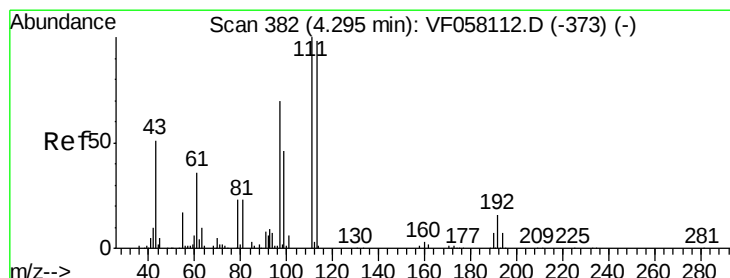
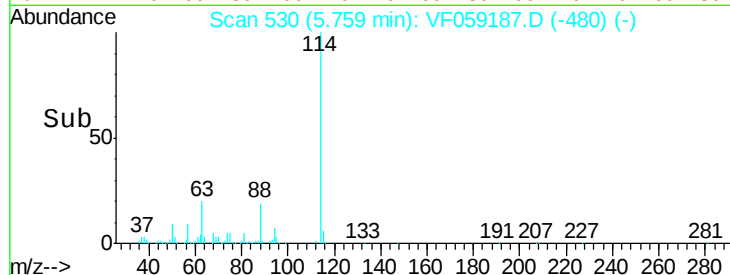
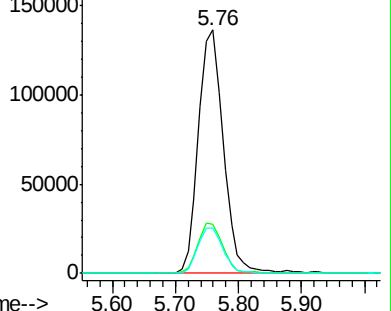
88 18.7 0.0 38.8



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: 56.332 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

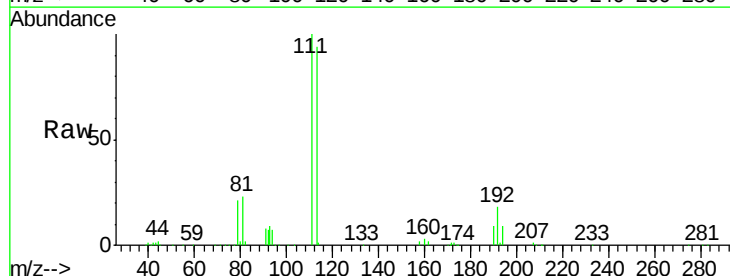
Tgt Ion:113 Resp: 148497

Ion Ratio Lower Upper

113 100

111 106.6 81.3 121.9

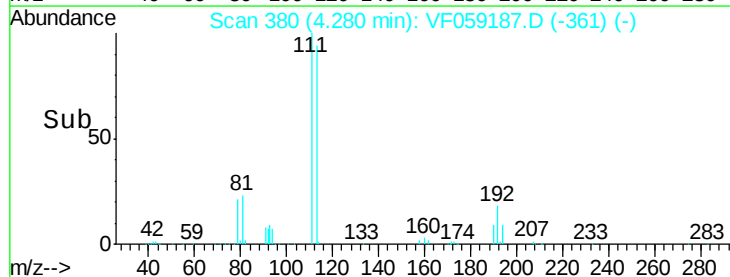
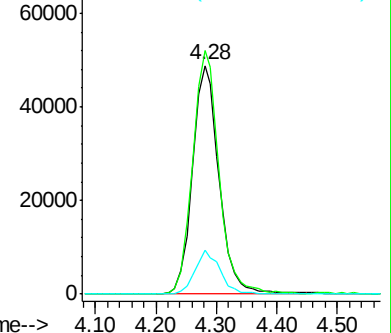
192 19.2 12.7 19.1#

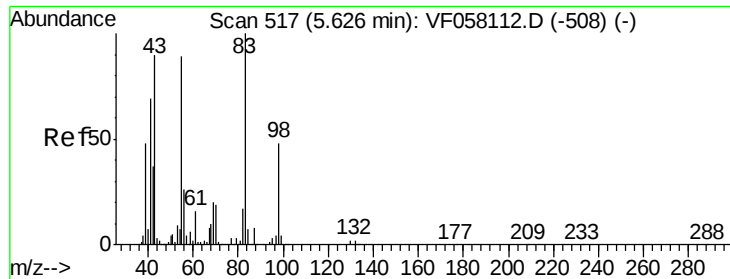


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

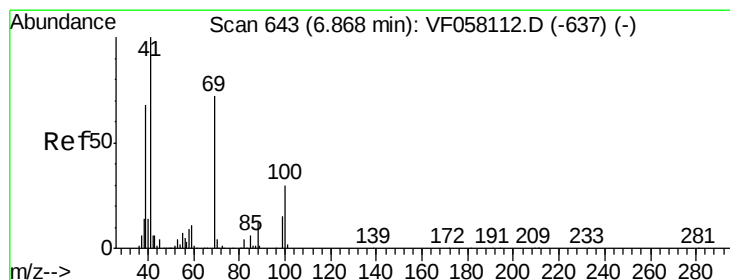
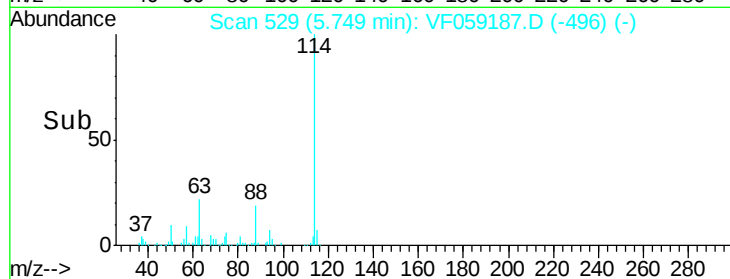
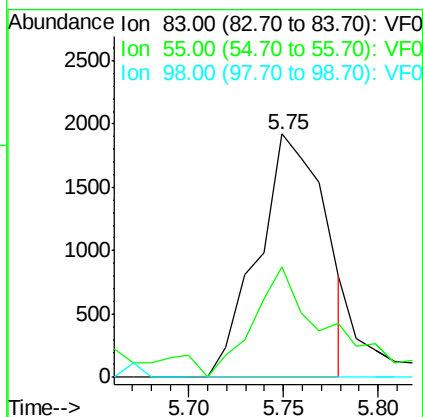
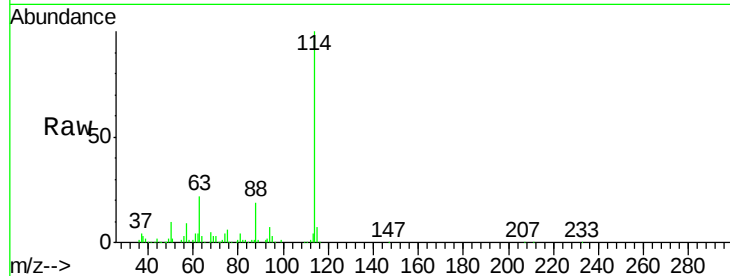




#39
Methylcyclohexane
Concen: 1.277 ug/l
RT: 5.75 min Scan# 529
Delta R.T. 0.12 min
Lab File: VF059187.D
Acq: 18 Jun 2018 20:34

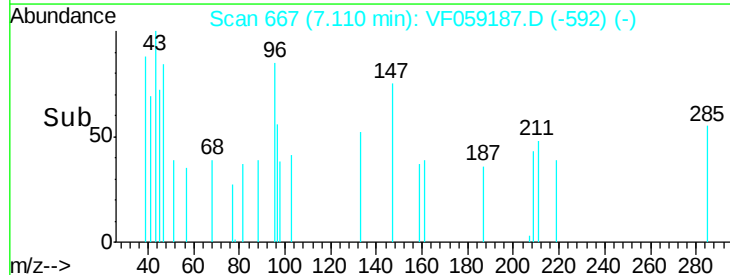
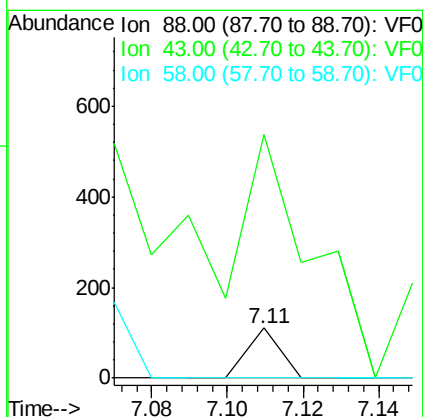
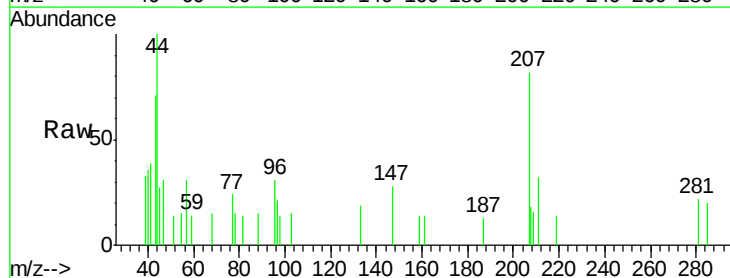
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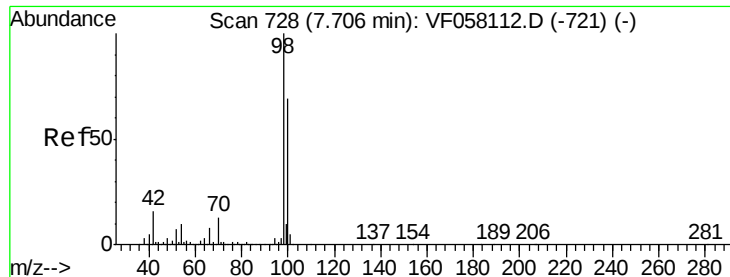
Tgt Ion: 83 Resp: 4741
Ion Ratio Lower Upper
83 100
55 45.2 71.0 106.4#
98 0.0 38.1 57.1#



#49
1,4-Dioxane
Concen: 17.368 ug/l
RT: 7.11 min Scan# 667
Delta R.T. 0.24 min
Lab File: VF059187.D
Acq: 18 Jun 2018 20:34

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 488.2 47.8 71.8#
58 0.0 59.4 89.0#





#50

Toluene-d8

Concen: 42.674 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

Instrument :

MSVOA_F

ClientSampleId :

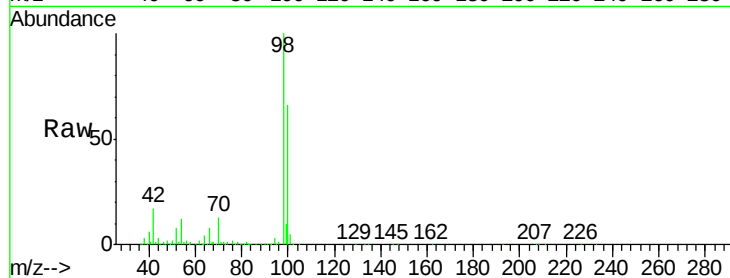
SS-T-4-STONE

Tgt Ion: 98 Resp: 330481

Ion Ratio Lower Upper

98 100

100 66.1 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

150000

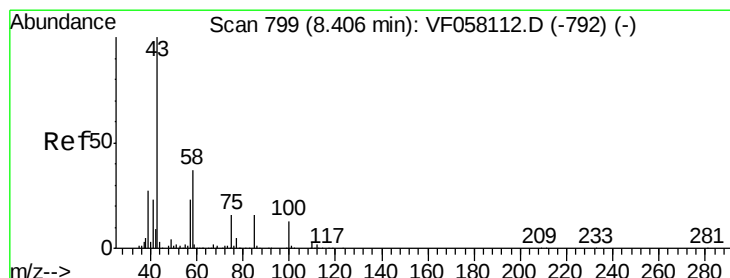
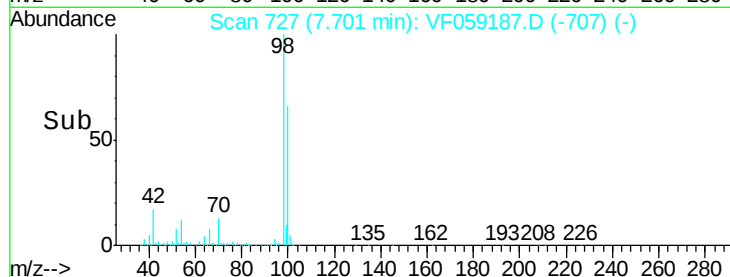
100000

50000

0

7.60 7.70 7.80 7.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.046 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059187.D

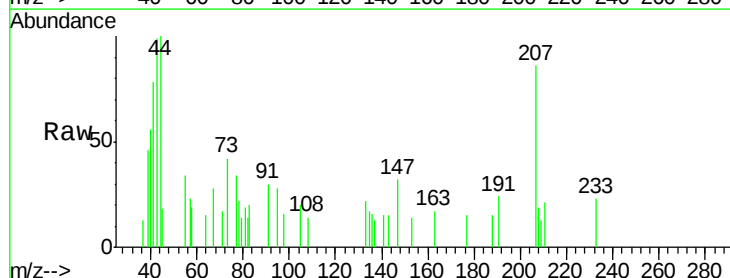
Acq: 18 Jun 2018 20:34

Tgt Ion: 43 Resp: 2161

Ion Ratio Lower Upper

43 100

58 19.7 29.4 44.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

800

600

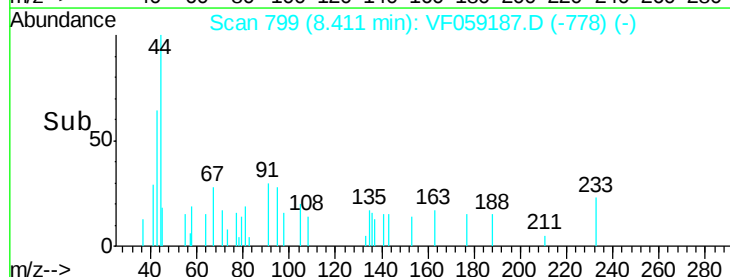
400

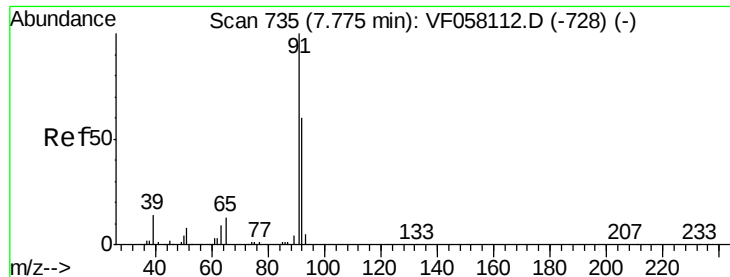
200

0

8.35 8.40 8.45 8.50

Time-->

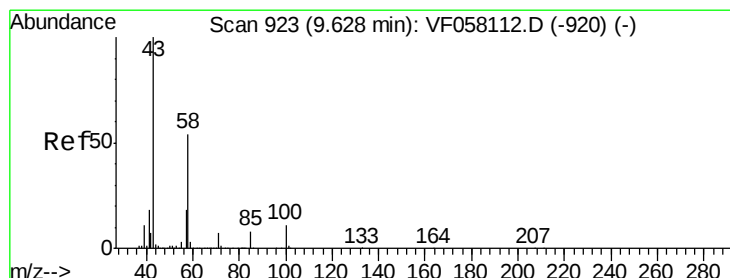
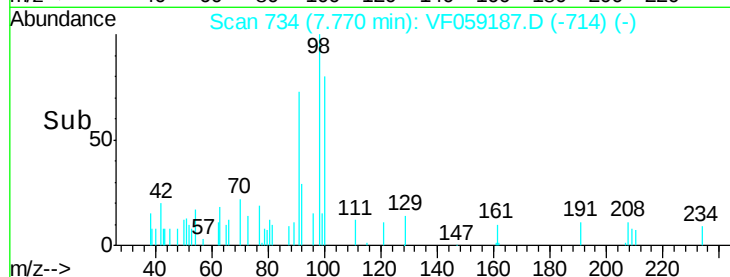
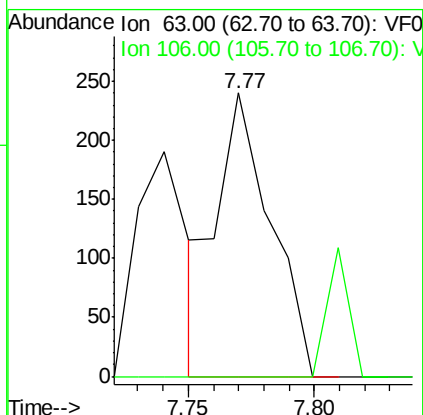
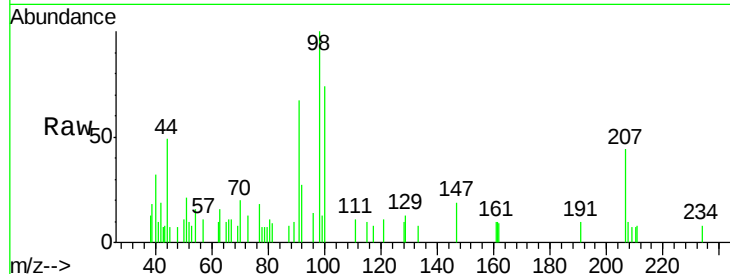




#58
2-Chloroethyl Vinyl ether
Concen: 1.775 ug/l
RT: 7.77 min Scan# 734
Delta R.T. -0.00 min
Lab File: VF059187.D
Acq: 18 Jun 2018 20:34

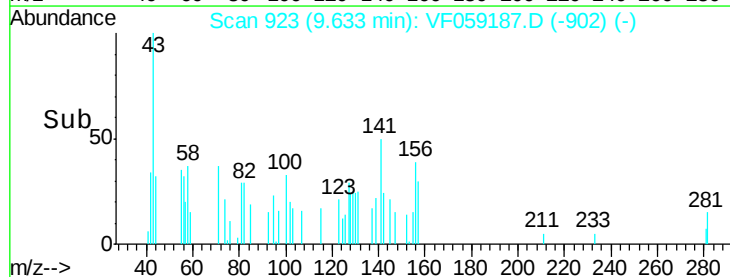
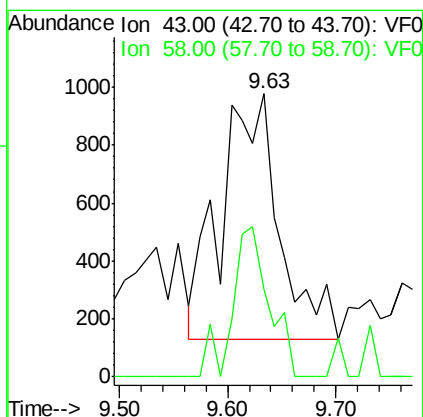
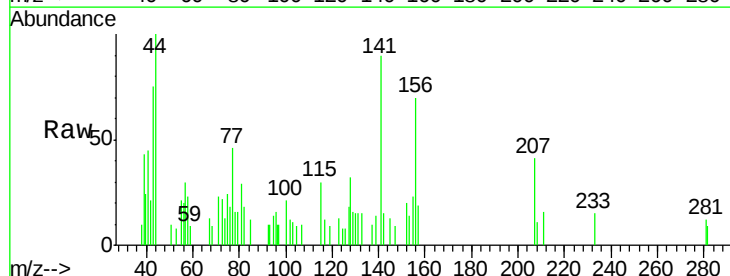
Instrument :
MSVOA_F
ClientSampleId :
SS-T-4-STONE

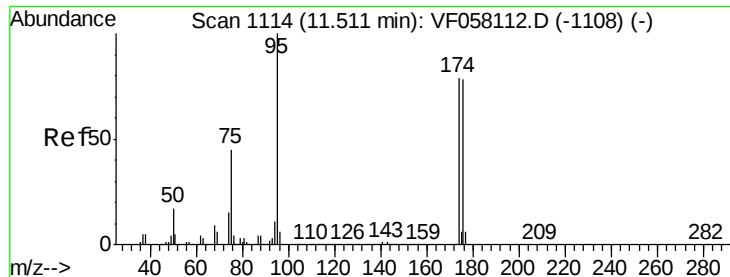
Tgt Ion: 63 Resp: 353
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: 1.943 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF059187.D
Acq: 18 Jun 2018 20:34

Tgt Ion: 43 Resp: 3175
Ion Ratio Lower Upper
43 100
58 31.0 26.3 78.8





#62

4-Bromofluorobenzene

Concen: 34.885 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

Instrument :

MSVOA_F

ClientSampleId :

SS-T-4-STONE

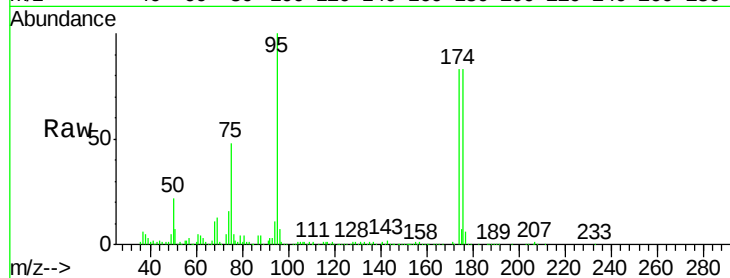
Tgt Ion: 95 Resp: 138566

Ion Ratio Lower Upper

95 100

174 82.8 0.0 157.8

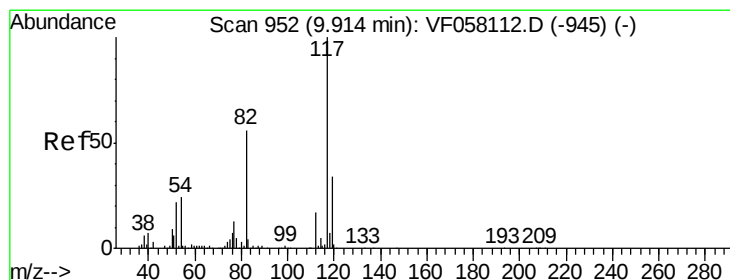
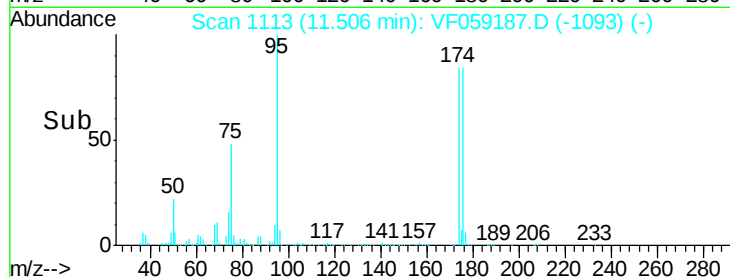
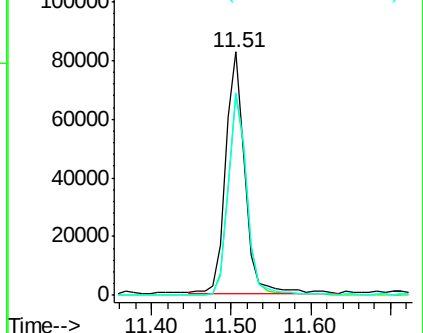
176 83.0 0.0 155.8



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: 9.91 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

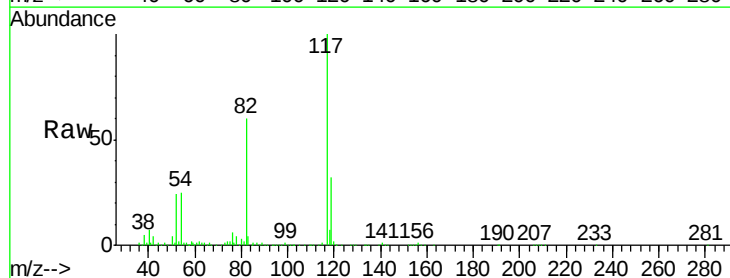
Tgt Ion: 117 Resp: 310938

Ion Ratio Lower Upper

117 100

82 59.7 45.2 67.8

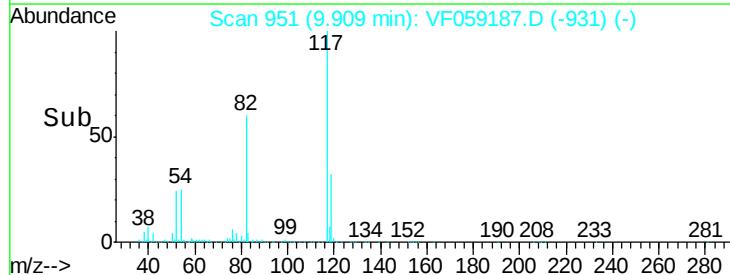
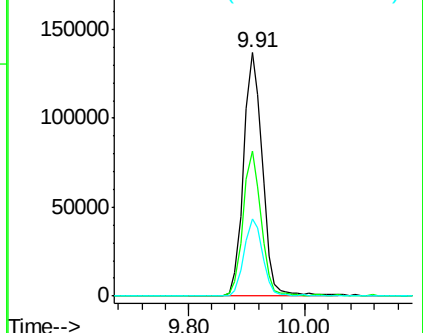
119 31.6 27.5 41.3

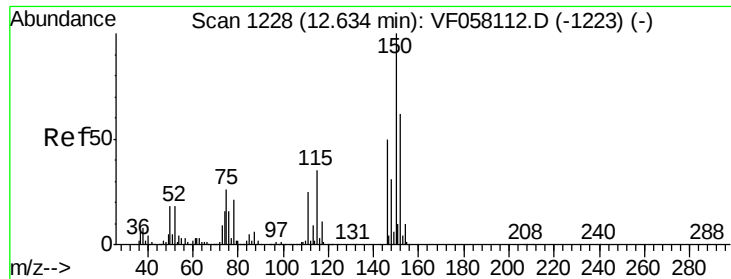


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.63 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

Instrument :

MSVOA_F

ClientSampleId :

SS-T-4-STONE

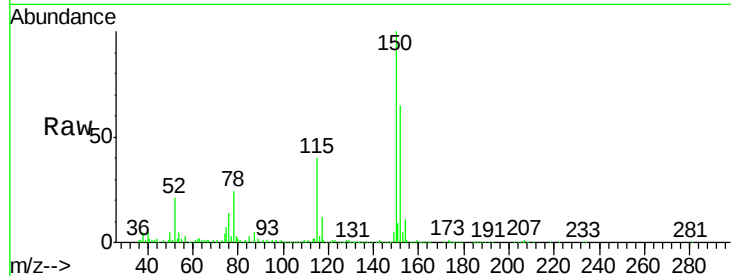
Tgt Ion: 152 Resp: 131305

Ion Ratio Lower Upper

152 100

115 61.9 28.5 85.5

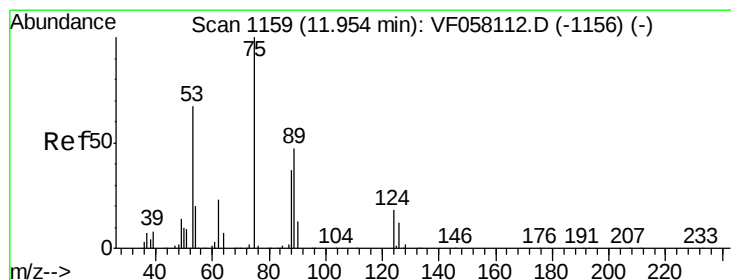
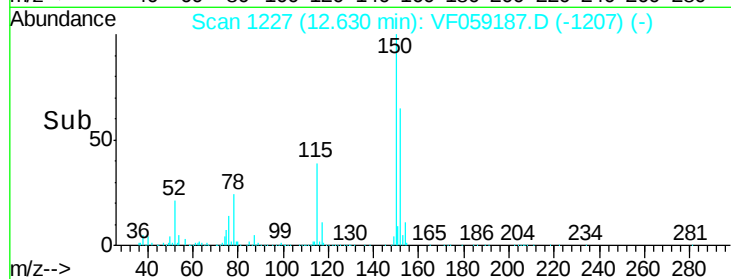
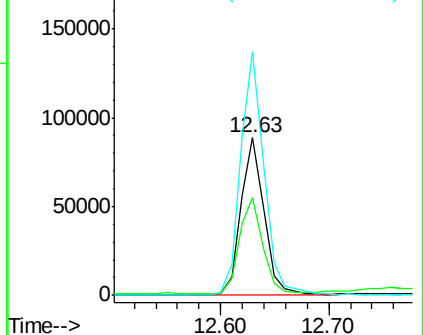
150 154.7 0.0 323.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 1.086 ug/l

RT: 12.11 min Scan# 1174

Delta R.T. 0.15 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

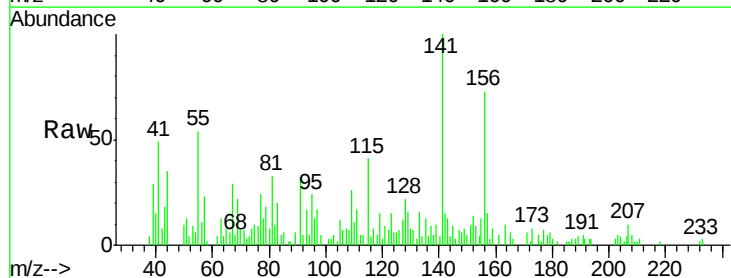
Tgt Ion: 75 Resp: 1121

Ion Ratio Lower Upper

75 100

53 86.9 58.7 88.1

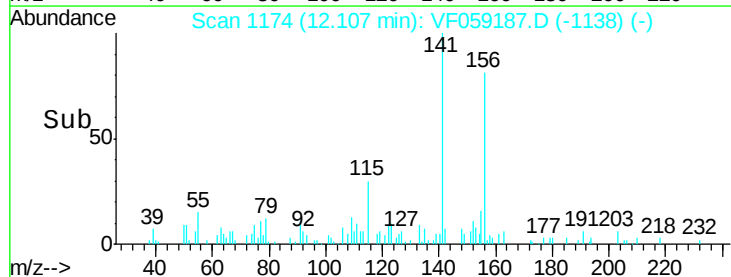
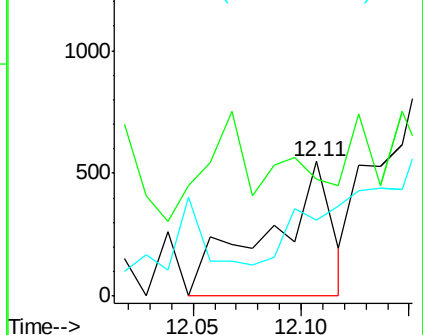
89 56.4 39.8 59.6

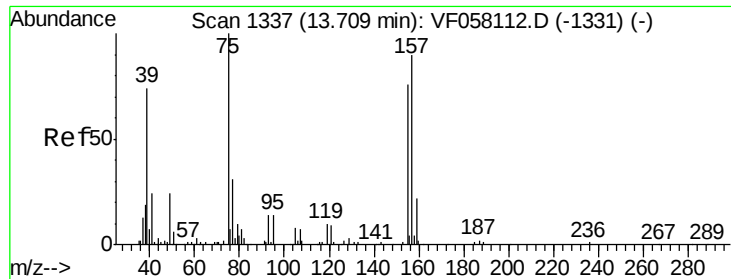


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 11.955 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.03 min

Lab File: VF059187.D

Acq: 18 Jun 2018 20:34

Instrument :

MSVOA_F

ClientSampleId :

SS-T-4-STONE

Tgt Ion: 75 Resp: 5054

Ion Ratio Lower Upper

75 100

155 1701.4 38.0 114.0#

157 55.4 45.1 135.5

