

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\
 Data File : VF059325.D
 Acq On : 26 Jun 2018 19:05
 Operator : VA/AP
 Sample : J3629-03
 Misc : 5.59g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C2-03

Quant Time: Jun 27 02:22:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	261018	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	414815	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	323627	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	123443	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	128633	38.14	ug/l	0.00
Spiked Amount			Recovery	=	76.28%	
35) Dibromofluoromethane	4.27	113	130060	42.91	ug/l	0.00
Spiked Amount			Recovery	=	85.82%	
50) Toluene-d8	7.69	98	265664	35.40	ug/l	0.00
Spiked Amount			Recovery	=	70.80%	
62) 4-Bromofluorobenzene	11.50	95	112077	26.48	ug/l	0.00
Spiked Amount			Recovery	=	52.96%	

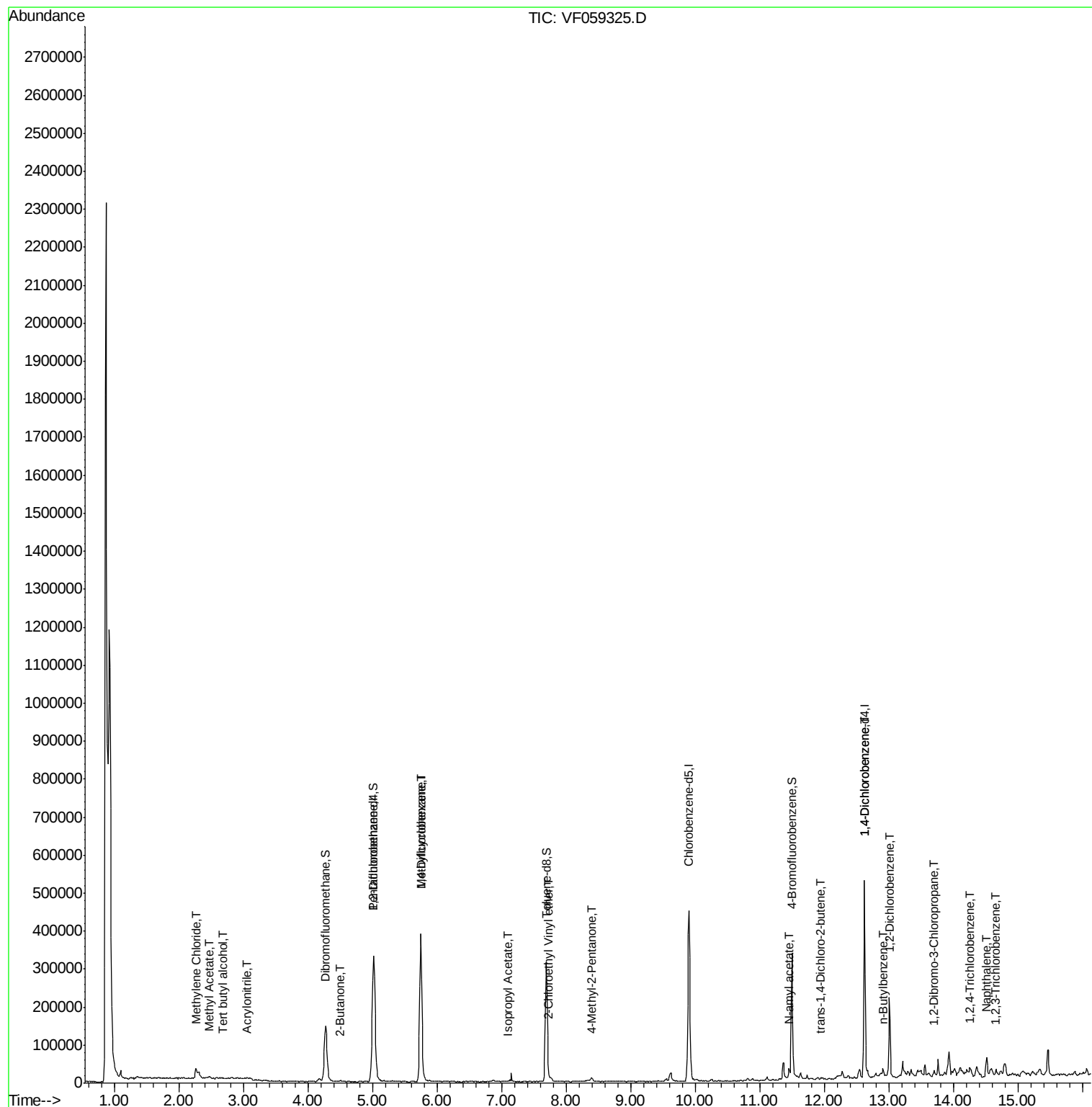
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.31	94	401	Below Cal	#	45
11) Tert butyl alcohol	2.68	59	1277	5.688	ug/l #	66
13) Acrolein	2.10	56	246	Below Cal		85
15) Acrylonitrile	3.04	53	930	2.352	ug/l #	59
16) Acetone	2.32	43	3986	Below Cal	#	88
18) Methyl Acetate	2.47	43	3362	1.070	ug/l #	61
20) Methylene Chloride	2.27	84	17022	1.891	ug/l	95
25) 2-Butanone	4.51	43	4964	2.143	ug/l #	59
28) Bromochloromethane	3.89	49	66	Below Cal	#	6
29) Tetrahydrofuran	4.23	42	1712	Below Cal	#	79
37) Ethyl Acetate	4.25	43	1280	Below Cal	#	58
39) Methylcyclohexane	5.75	83	4000	1.246	ug/l #	38
43) Isopropyl Acetate	7.09	43	3197	1.059	ug/l #	85
49) 1,4-Dioxane	6.87	88	418	Below Cal	#	20
51) 4-Methyl-2-Pentanone	8.39	43	9375	4.192	ug/l #	78
58) 2-Chloroethyl Vinyl ether	7.73	63	559	2.578	ug/l	100
59) 2-Hexanone	9.61	43	21709	Below Cal		96
74) N-amyl acetate	11.45	43	14304	5.481	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.95	75	1579	1.936	ug/l	93
87) 1,3-Dichlorobenzene	12.54	146	8261	Below Cal		86
88) 1,4-Dichlorobenzene	12.63	146	15473	4.342	ug/l	91
89) n-Butylbenzene	12.91	91	8843	1.243	ug/l	86
91) 1,2-Dichlorobenzene	13.00	146	81524	22.507	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.70	75	1630	4.049	ug/l #	29
93) 1,2,4-Trichlorobenzene	14.26	180	3894	1.454	ug/l #	80
95) Naphthalene	14.51	128	31588	5.637	ug/l	97
96) 1,2,3-Trichlorobenzene	14.66	180	5071	1.999	ug/l	96

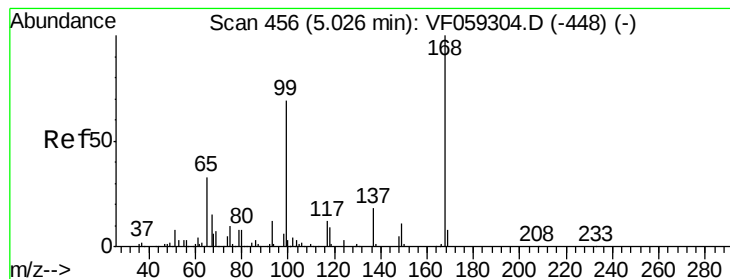
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 27 02:22:13 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

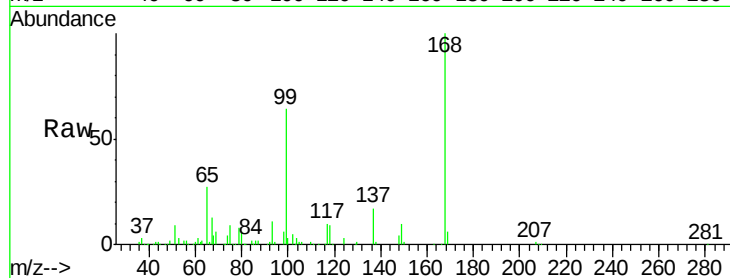
A0C2-03

Tot Ion:168 Resp: 261018

Ion Ratio Lower Upper

168 100

99 63.8 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

100000

80000

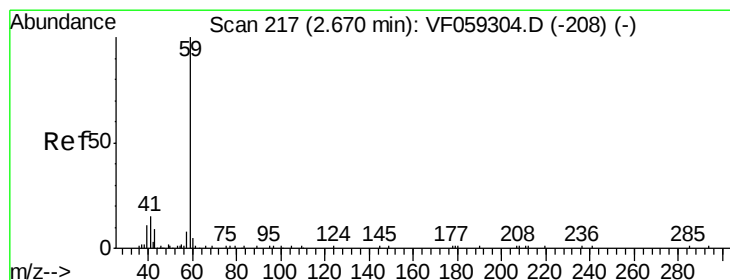
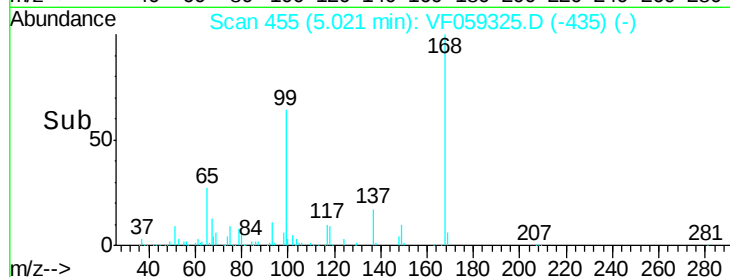
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.688 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059325.D

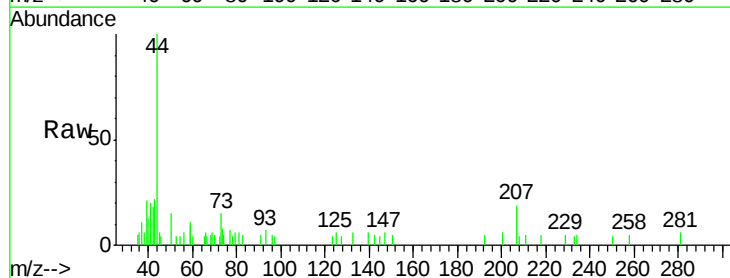
Acq: 26 Jun 2018 19:05

Tgt Ion: 59 Resp: 1277

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.68

600

500

400

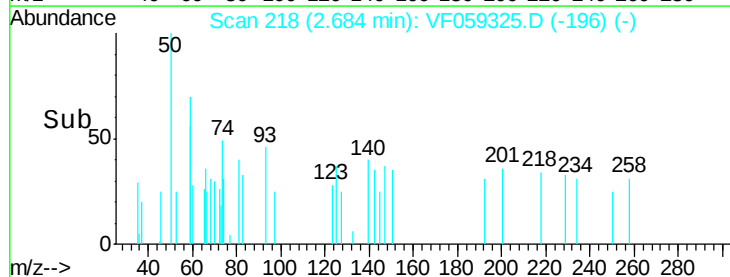
300

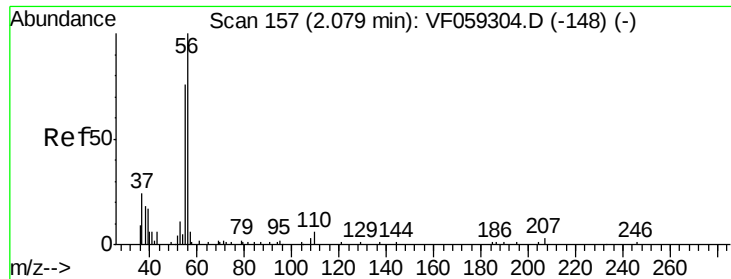
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.10 min Scan# 159

Delta R.T. 0.02 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

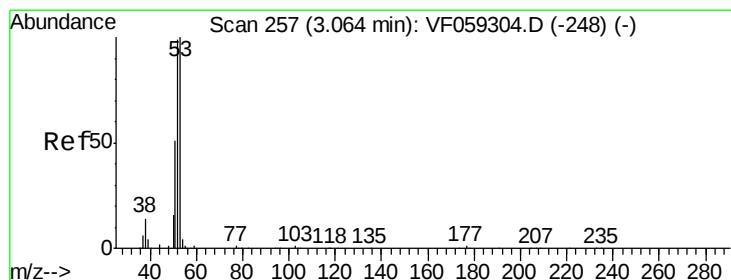
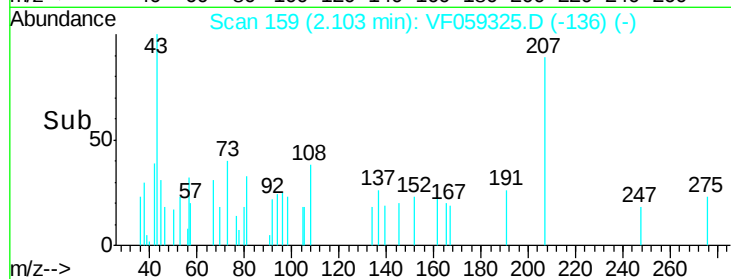
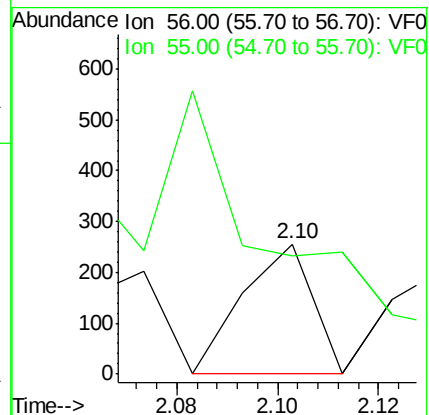
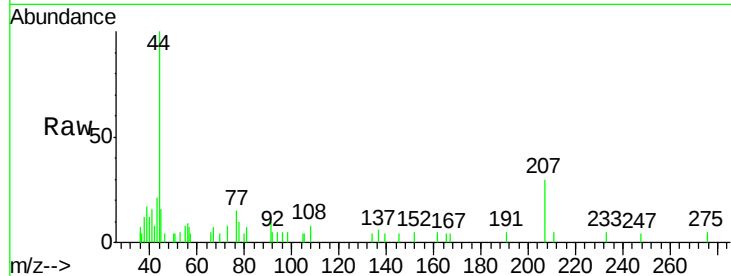
Instrument :
MSVOA_F
ClientSampled :
A0C2-03

Tot Ion: 56 Resp: 246

Ion Ratio Lower Upper

56 100

55 91.0 62.4 93.6



#15

Acrylonitrile

Concen: 2.352 ug/l

RT: 3.04 min Scan# 254

Delta R.T. -0.03 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

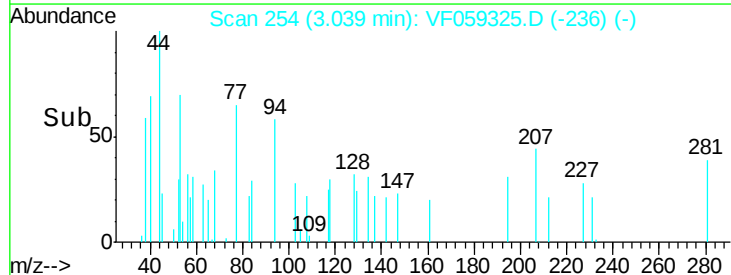
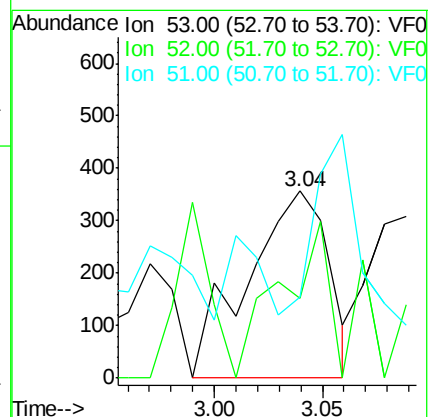
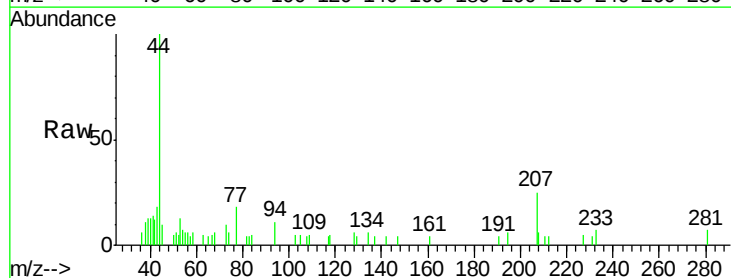
Tgt Ion: 53 Resp: 930

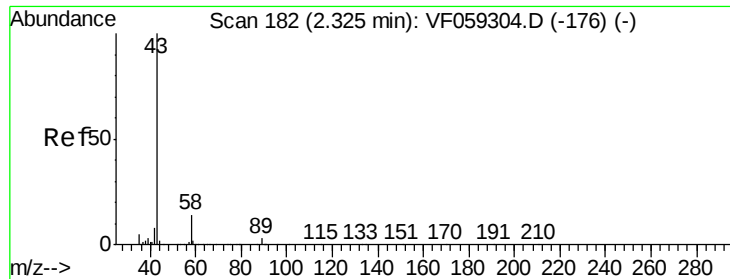
Ion Ratio Lower Upper

53 100

52 42.4 79.2 118.8#

51 43.3 40.9 61.3

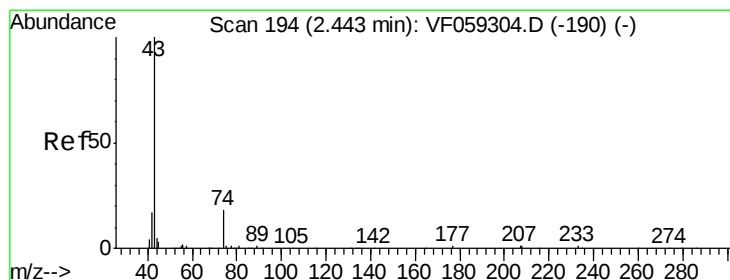
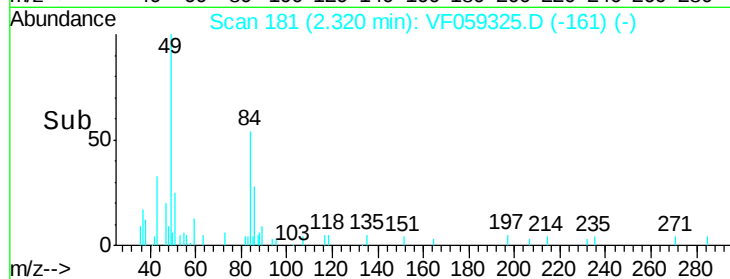
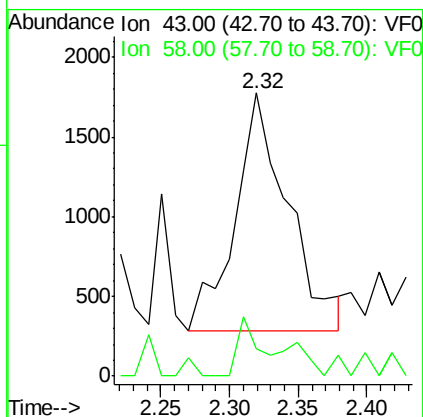
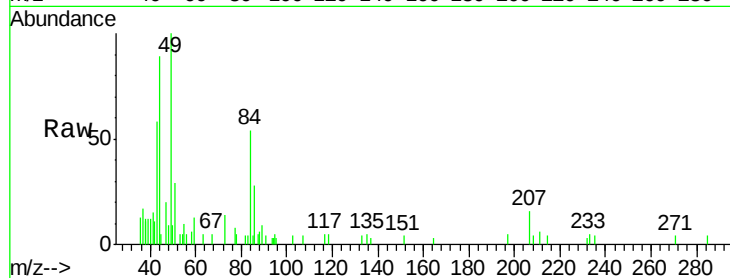




#16
Acetone
Concen: Below Cal
RT: 2.32 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF059325.D
Acq: 26 Jun 2018 19:05

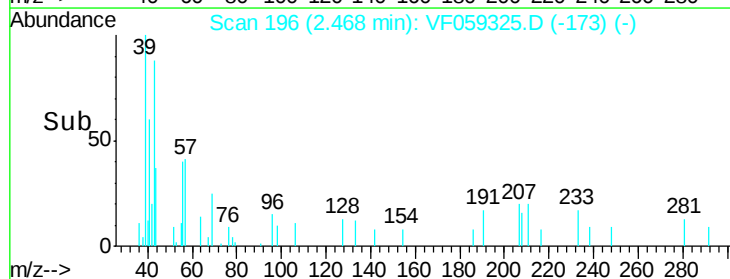
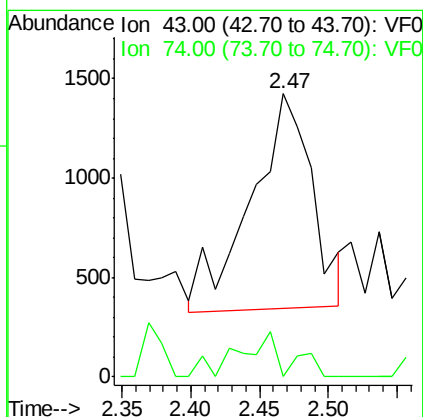
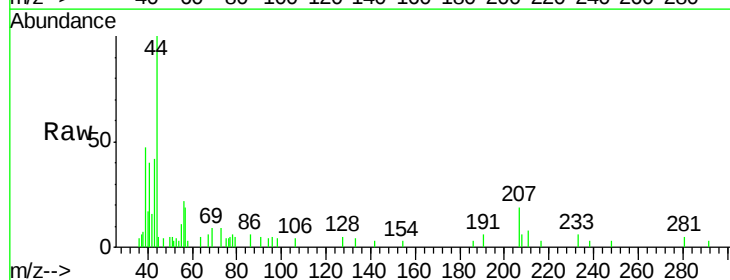
Instrument :
MSVOA_F
ClientSampleId :
A0C2-03

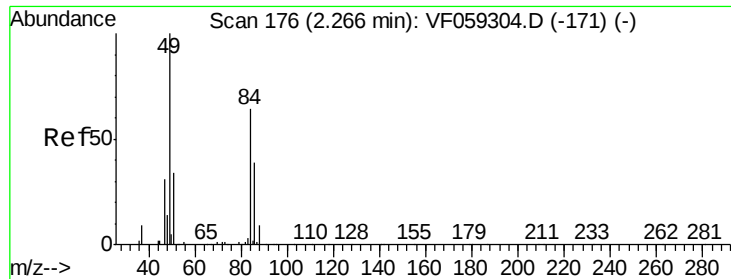
Tot Ion: 43 Resp: 3986
Ion Ratio Lower Upper
43 100
58 9.5 11.4 17.0#



#18
Methyl Acetate
Concen: 1.070 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059325.D
Acq: 26 Jun 2018 19:05

Tgt Ion: 43 Resp: 3362
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#

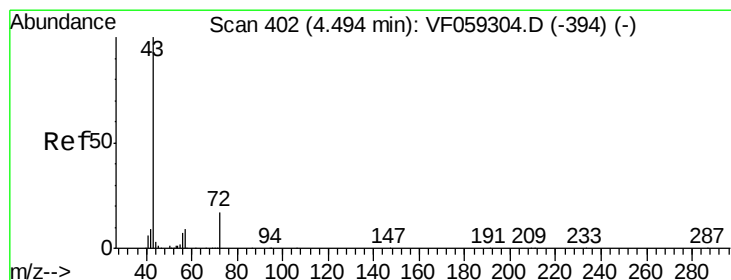
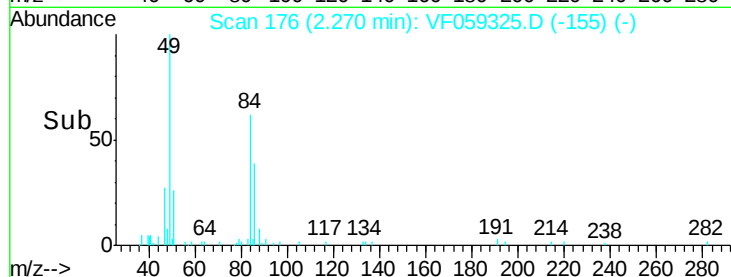
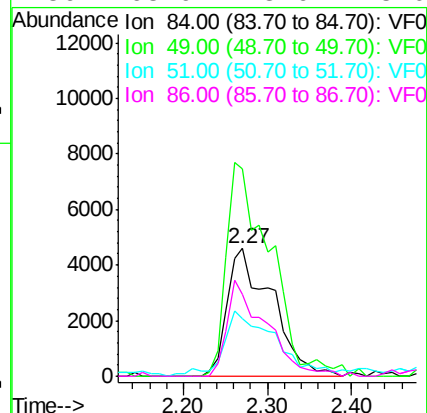
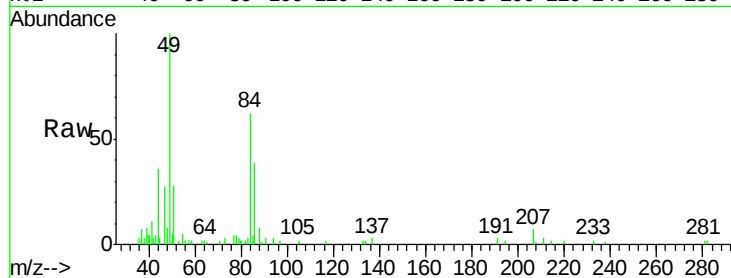




#20
Methvlene Chloride
Concen: 1.891 ug/l
RT: 2.27 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF059325.D
Acq: 26 Jun 2018 19:05

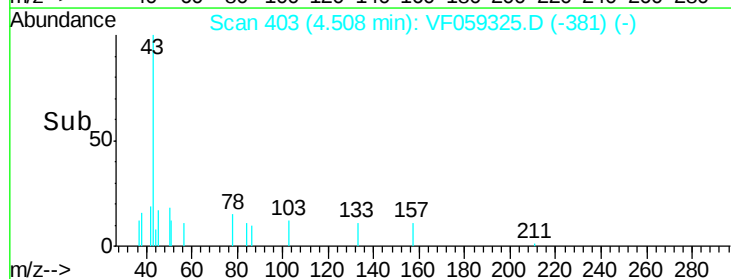
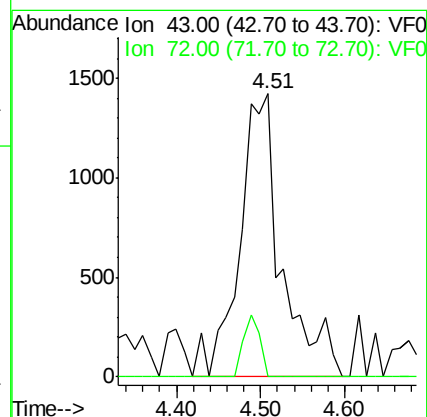
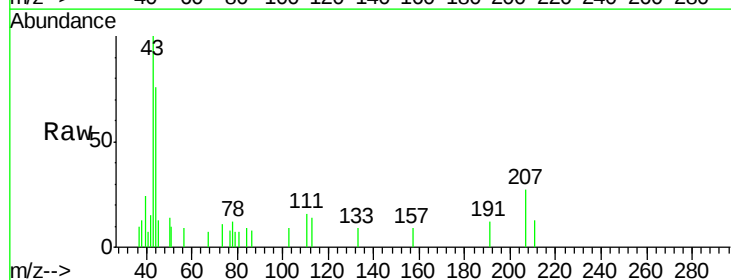
Instrument :
MSVOA_F
ClientSampleId :
A0C2-03

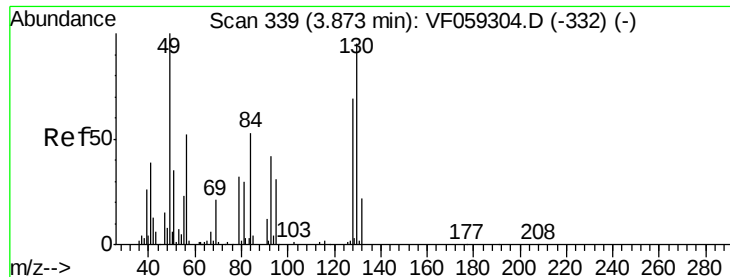
Tot Ion:	84	Resp:	17022
Ion	Ratio	Lower	Upper
84	100		
49	162.5	126.5	189.7
51	45.6	42.9	64.3
86	63.9	48.6	73.0



#25
2-Butanone
Concen: 2.143 ug/l
RT: 4.51 min Scan# 403
Delta R.T. 0.02 min
Lab File: VF059325.D
Acq: 26 Jun 2018 19:05

Tgt Ion:	43	Resp:	4964
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.4	21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.89 min Scan# 340

Delta R.T. 0.02 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

A0C2-03

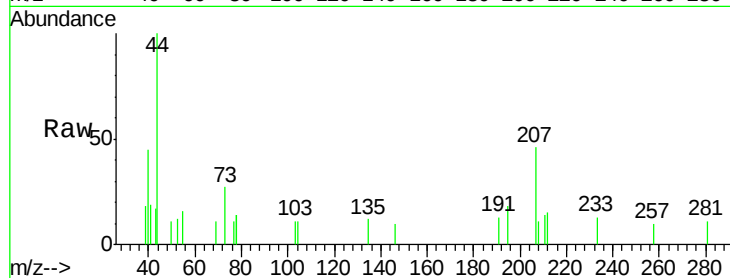
Tot Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

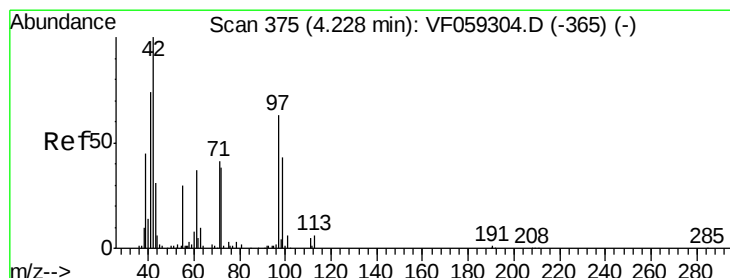
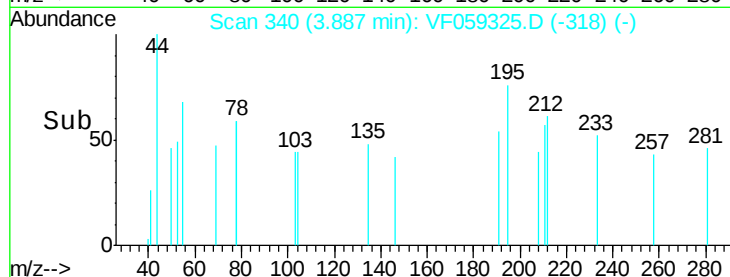
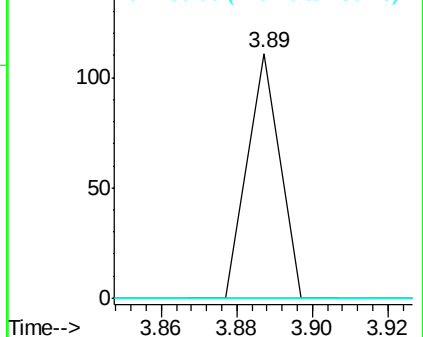
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.23 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

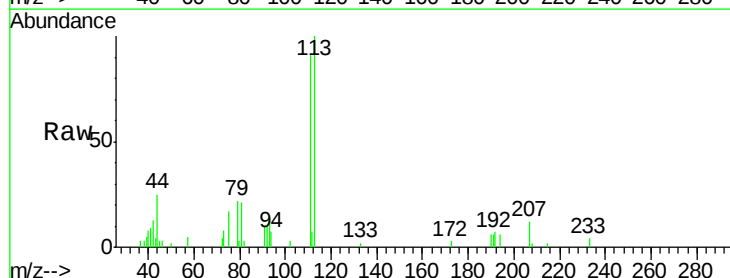
Tgt Ion: 42 Resp: 1712

Ion Ratio Lower Upper

42 100

72 24.4 30.5 45.7#

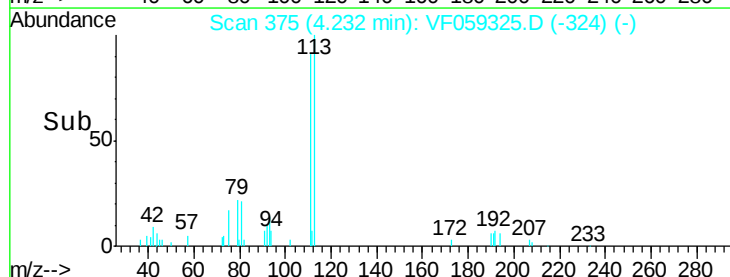
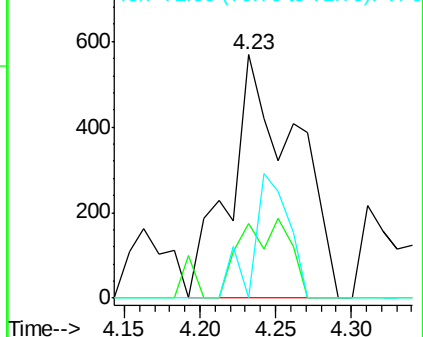
71 28.2 32.5 48.7#

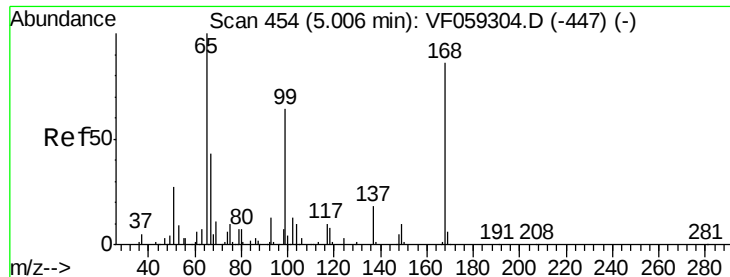


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 38.144 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

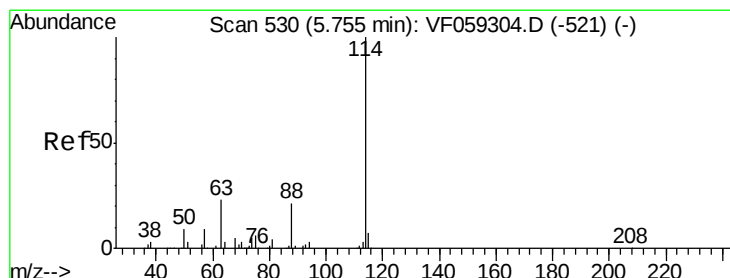
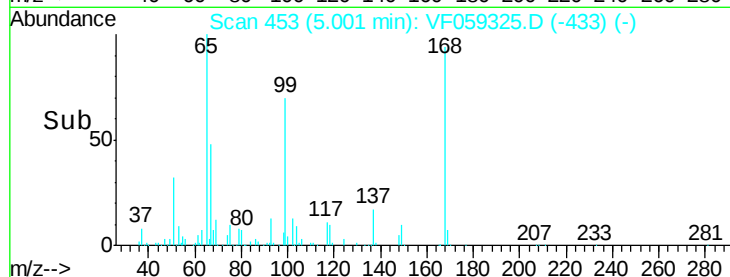
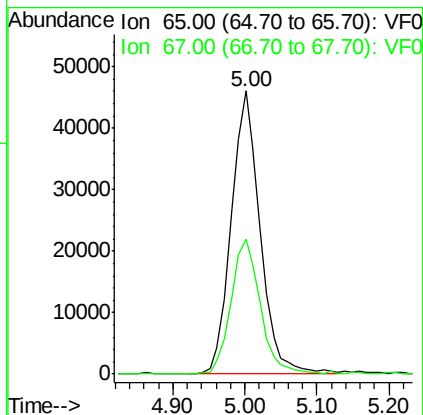
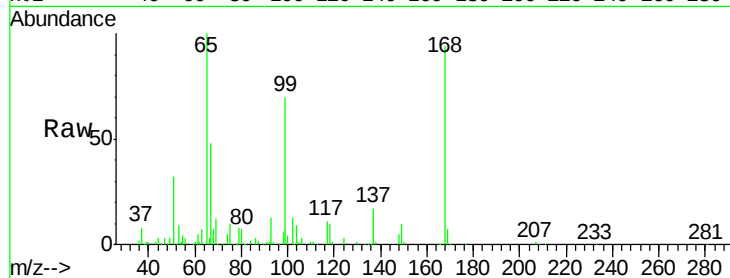
A0C2-03

Tot Ion: 65 Resp: 128633

Ion Ratio Lower Upper

65 100

67 47.8 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

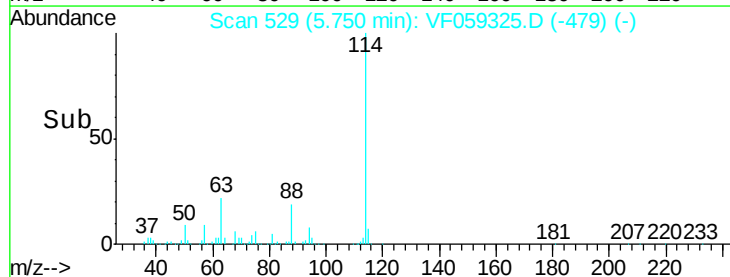
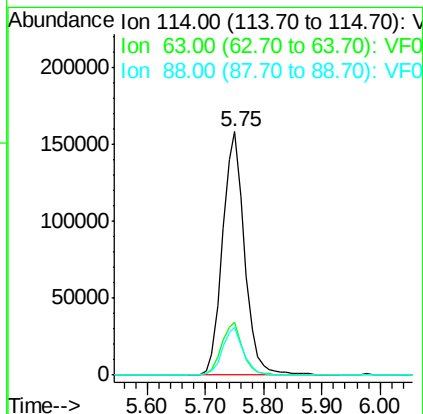
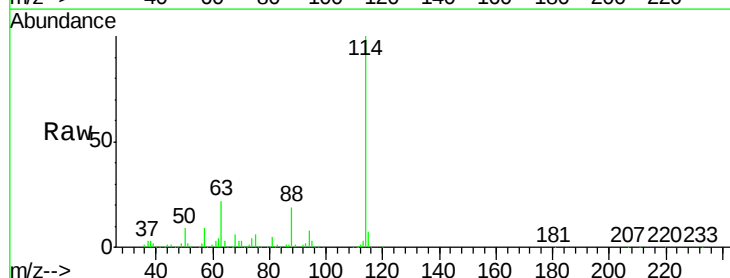
Tgt Ion: 114 Resp: 414815

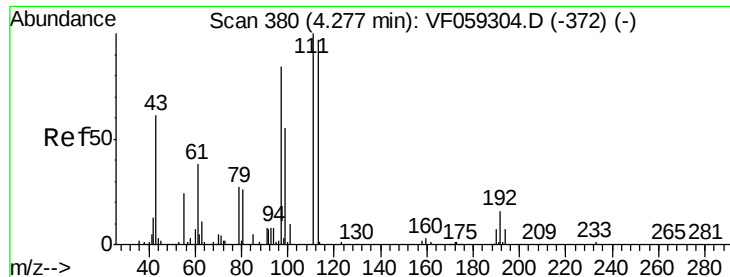
Ion Ratio Lower Upper

114 100

63 21.6 0.0 45.8

88 19.4 0.0 41.2





#35

Dibromofluoromethane

Concen: 42.911 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

A0C2-03

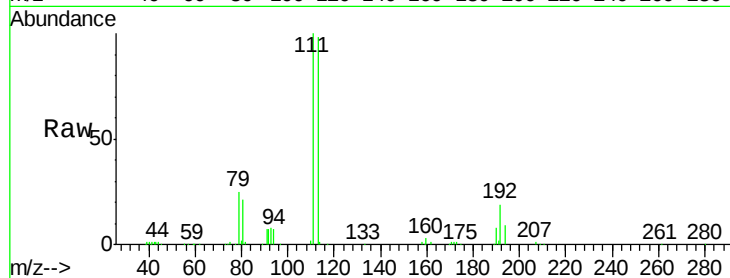
Tot Ion:113 Resp: 130060

Ion Ratio Lower Upper

113 100

111 101.8 82.1 123.1

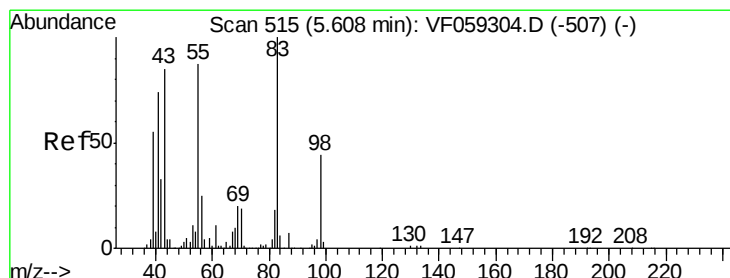
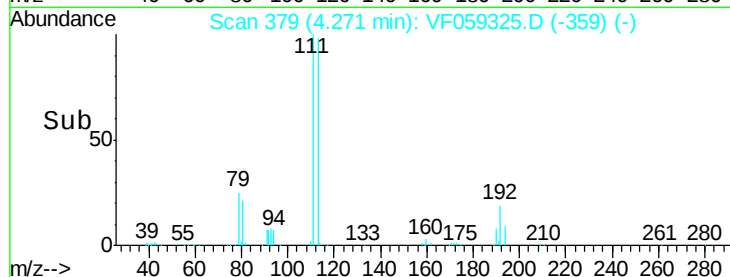
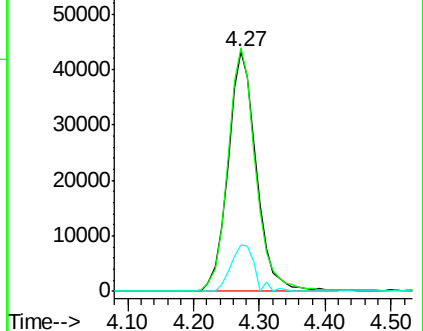
192 19.3 13.0 19.6



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: 1.246 ug/l

RT: 5.75 min Scan# 529

Delta R.T. 0.14 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

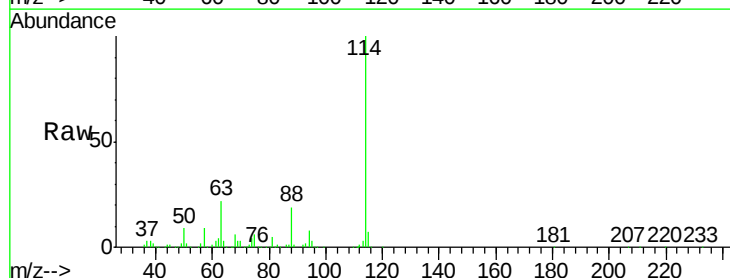
Tgt Ion: 83 Resp: 4000

Ion Ratio Lower Upper

83 100

55 31.8 69.2 103.8#

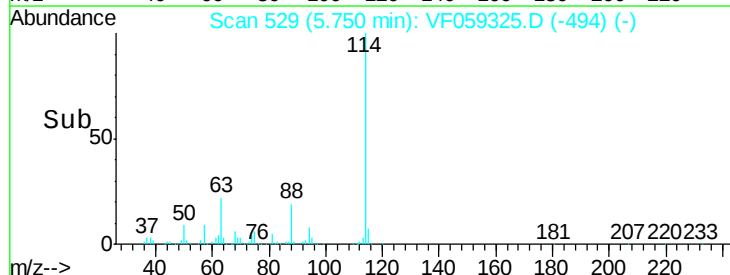
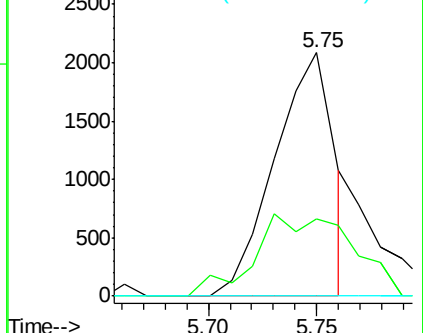
98 0.0 35.0 52.6#

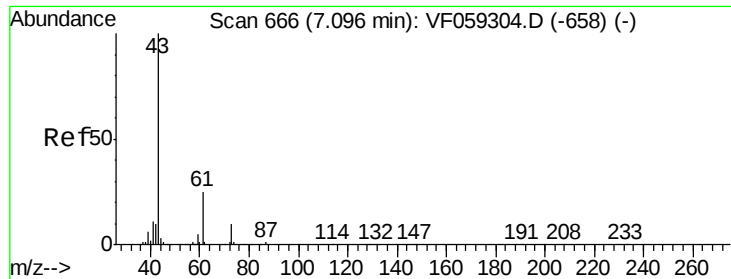


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 1.059 ug/l

RT: 7.09 min Scan# 665

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleID :

A0C2-03

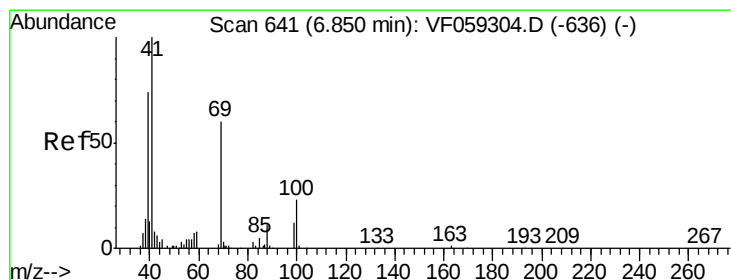
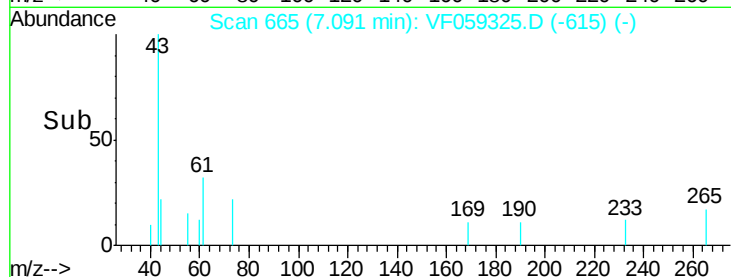
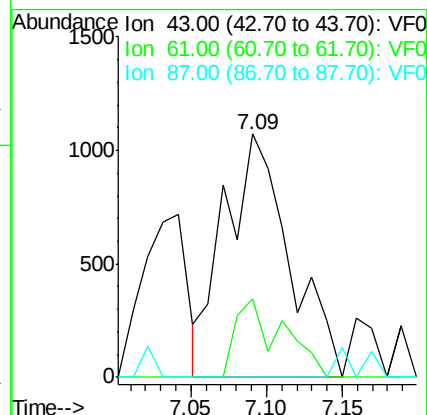
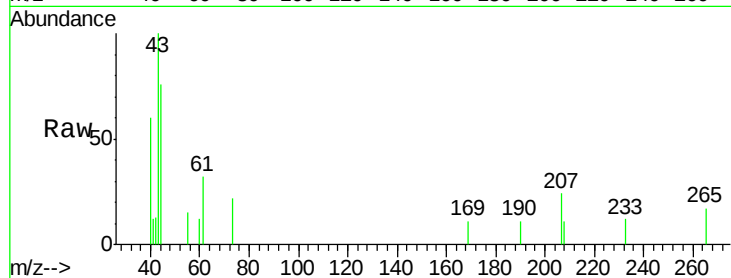
Tot Ion: 43 Resp: 3197

Ion Ratio Lower Upper

43 100

61 32.4 19.7 29.5#

87 0.0 0.5 0.7#



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.87 min Scan# 643

Delta R.T. 0.02 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

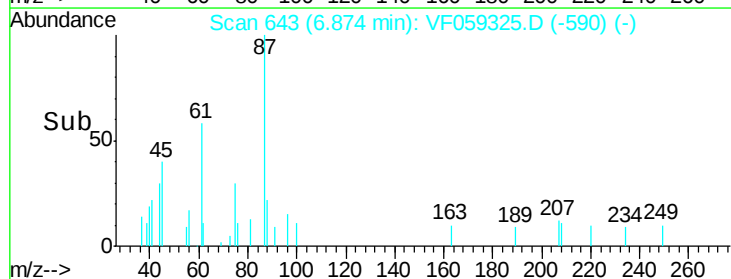
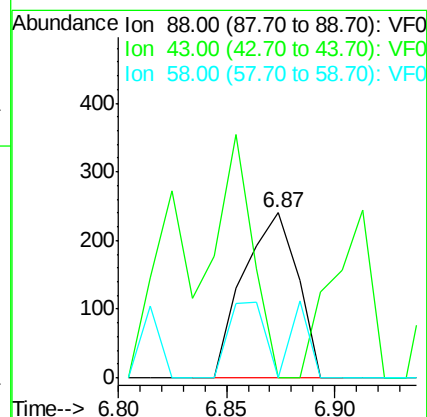
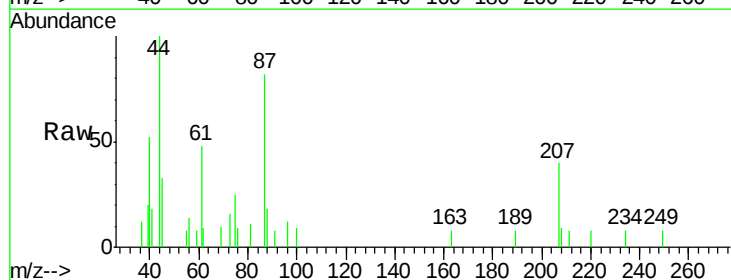
Tgt Ion: 88 Resp: 418

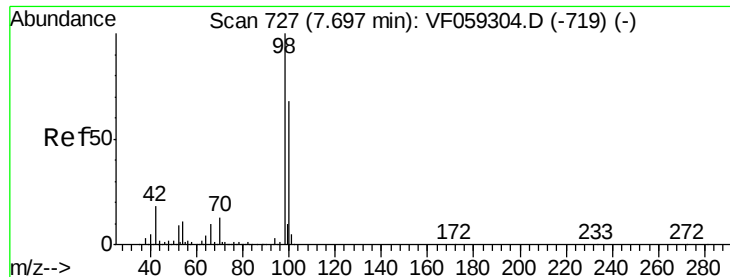
Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 35.402 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

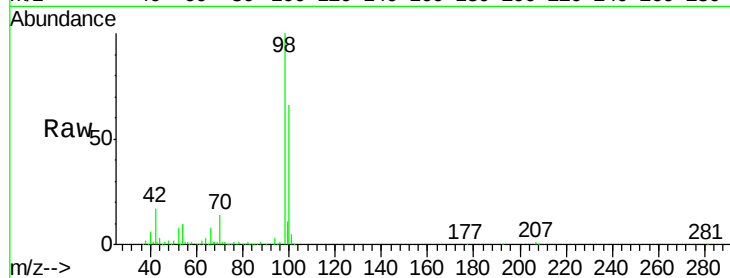
A0C2-03

Tot Ion: 98 Resp: 265664

Ion Ratio Lower Upper

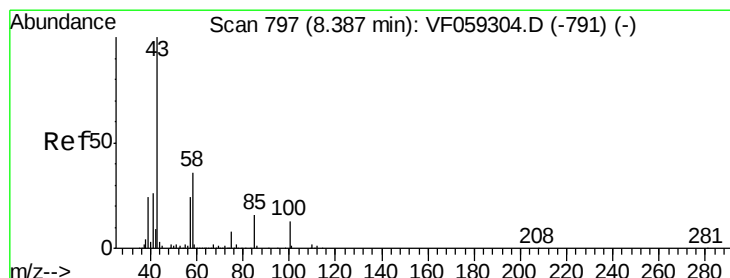
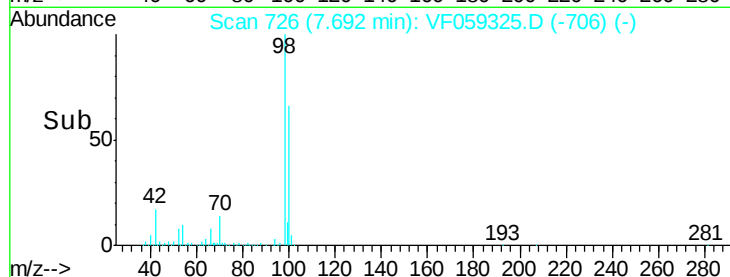
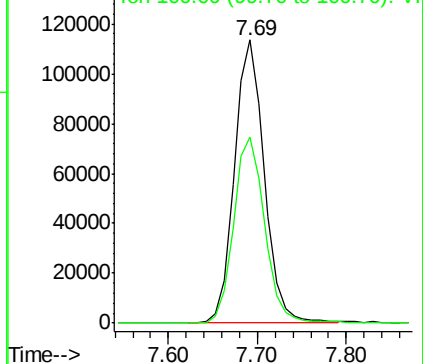
98 100

100 65.9 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 4.192 ug/l

RT: 8.39 min Scan# 797

Delta R.T. 0.00 min

Lab File: VF059325.D

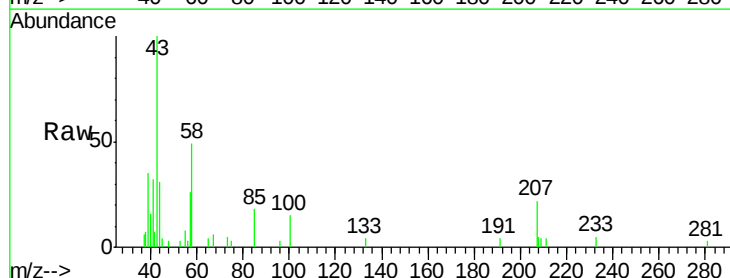
Acq: 26 Jun 2018 19:05

Tgt Ion: 43 Resp: 9375

Ion Ratio Lower Upper

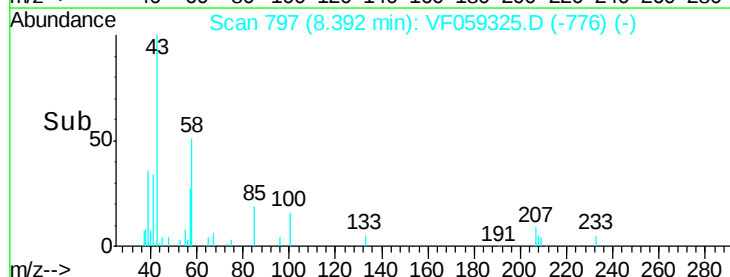
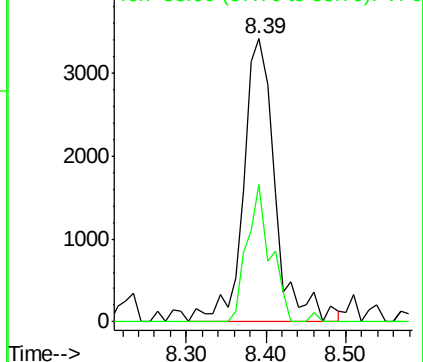
43 100

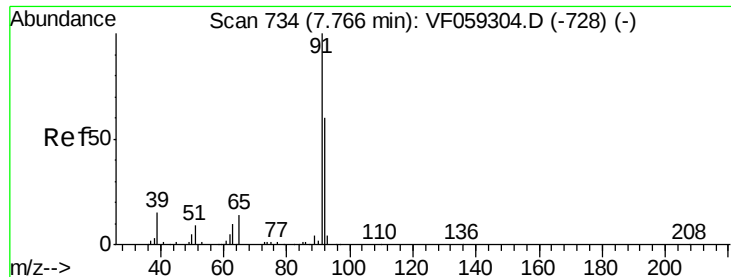
58 48.5 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 2.578 ug/l

RT: 7.73 min Scan# 730

Delta R.T. -0.03 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

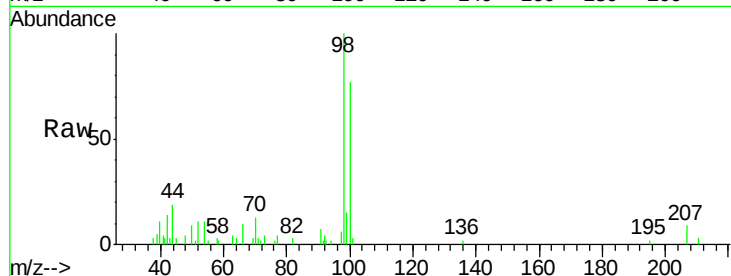
A0C2-03

Tot Ion: 63 Resp: 559

Ion Ratio Lower Upper

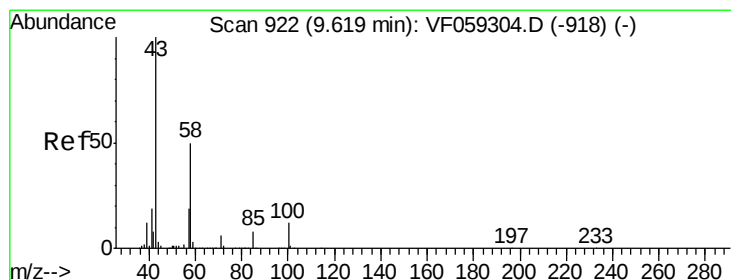
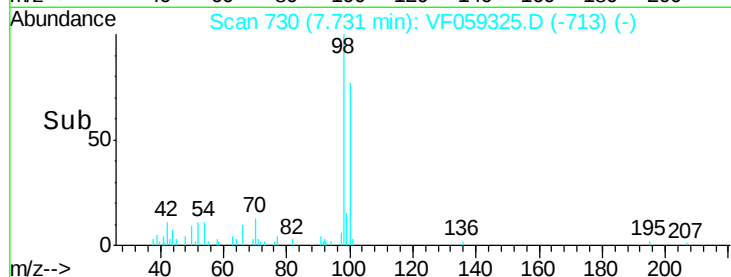
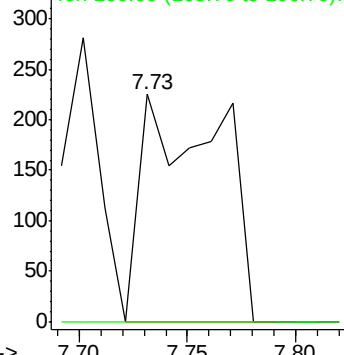
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: Below Cal

RT: 9.61 min Scan# 921

Delta R.T. -0.00 min

Lab File: VF059325.D

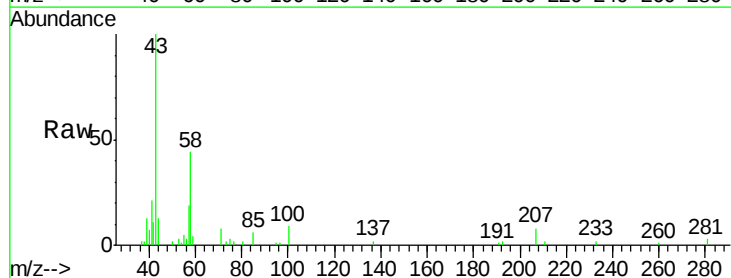
Acq: 26 Jun 2018 19:05

Tgt Ion: 43 Resp: 21709

Ion Ratio Lower Upper

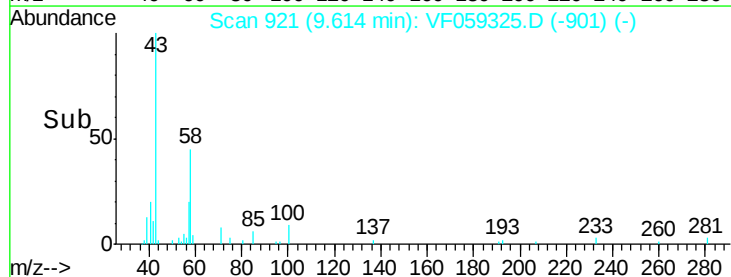
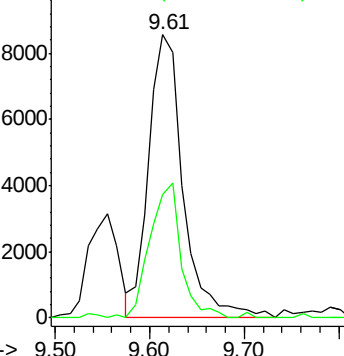
43 100

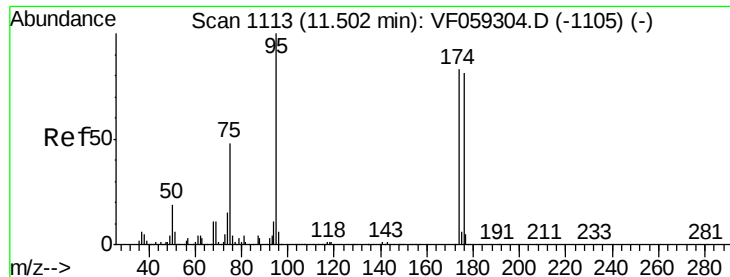
58 43.8 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 26.476 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

A0C2-03

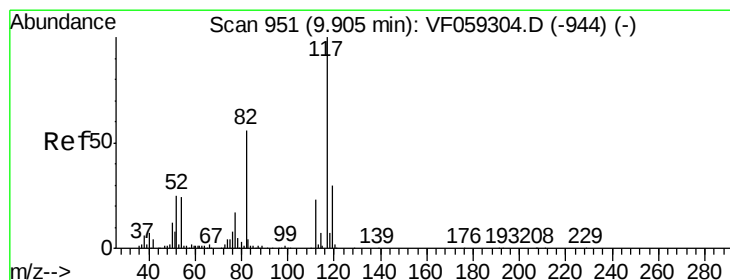
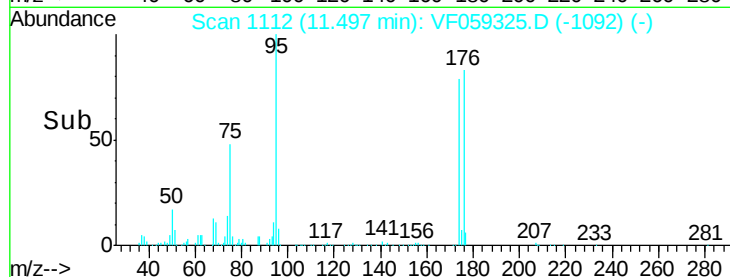
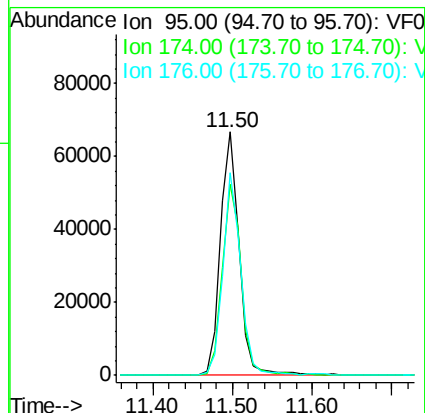
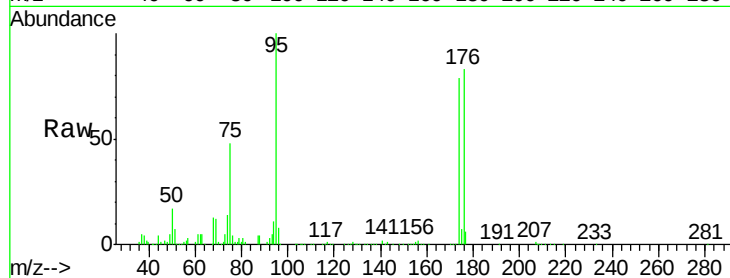
Tot Ion: 95 Resp: 112077

Ion Ratio Lower Upper

95 100

174 78.7 0.0 165.2

176 83.2 0.0 161.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

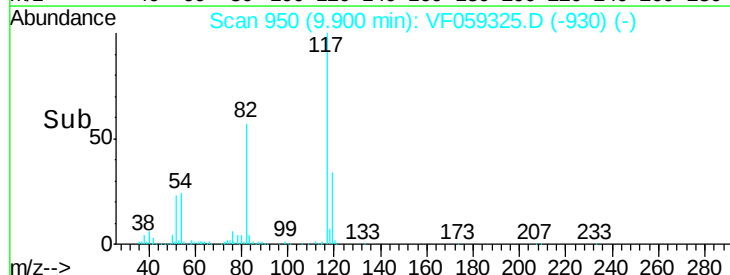
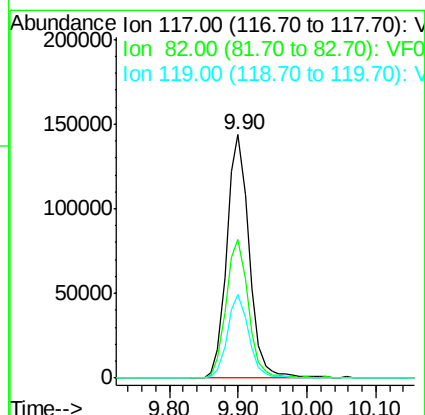
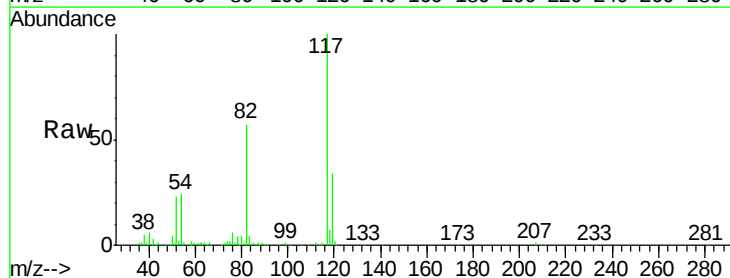
Tgt Ion: 117 Resp: 323627

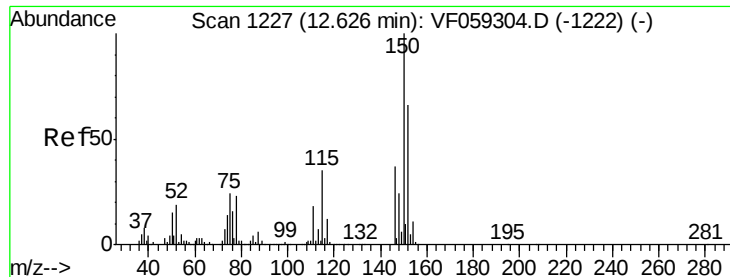
Ion Ratio Lower Upper

117 100

82 56.9 44.6 66.8

119 34.1 24.1 36.1



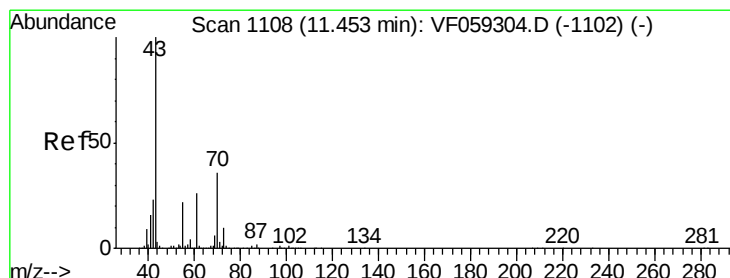
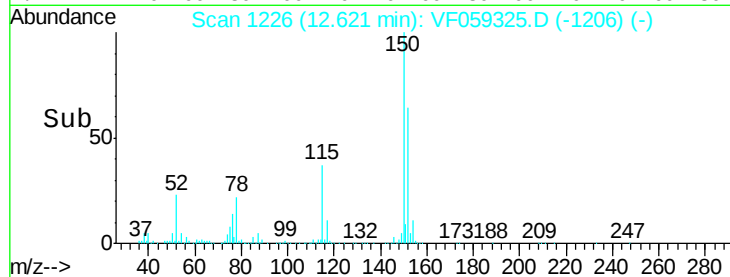
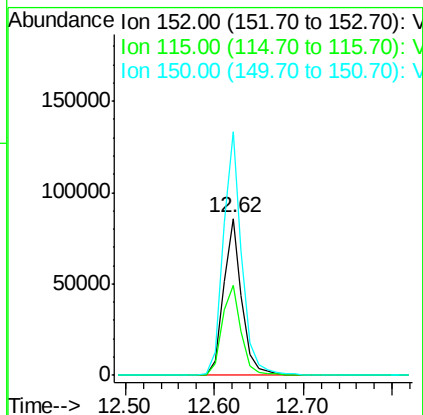
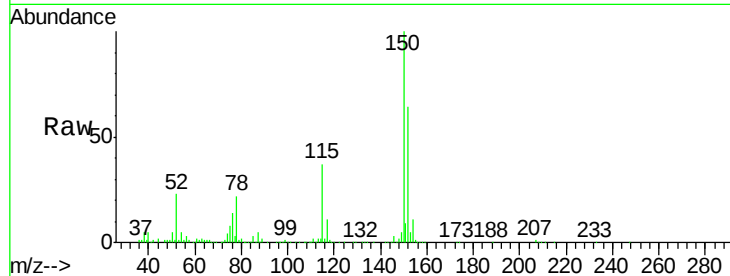


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059325.D
Acq: 26 Jun 2018 19:05

Instrument :
MSVOA_F
ClientSampleId :
A0C2-03

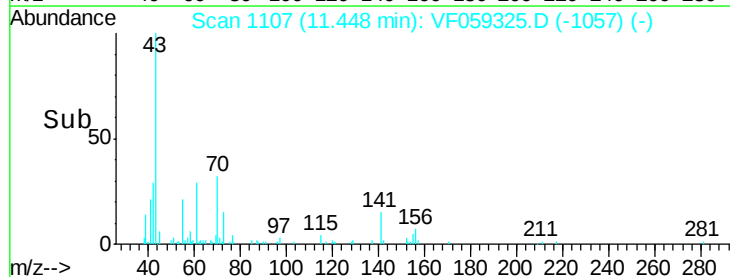
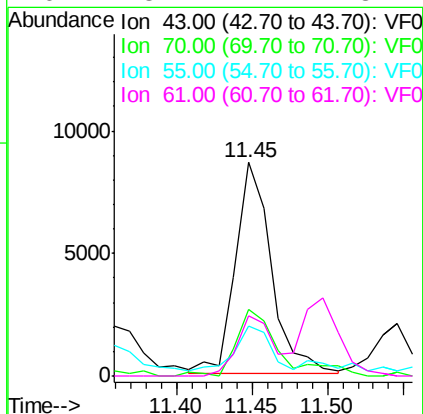
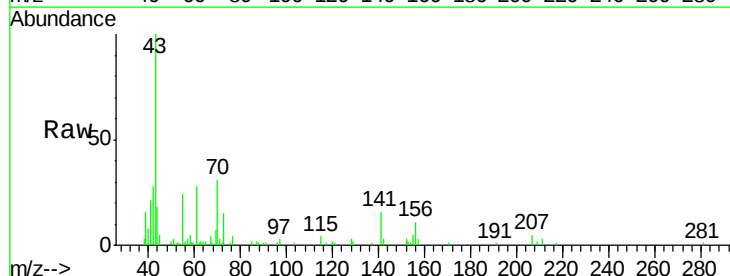
Tot Ion	Ratio	Lower	Upper
152	100		
115	57.4	27.1	81.3
150	155.1	0.0	305.2

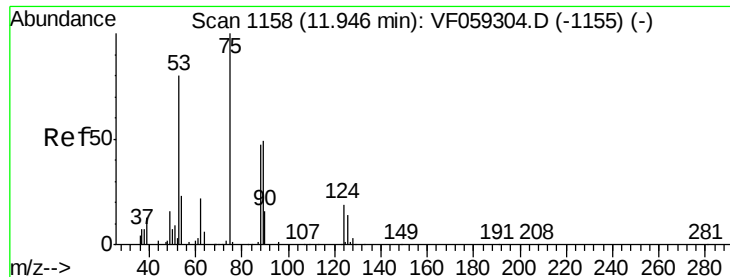


#74

N-amil acetate
Concen: 5.481 ug/l
RT: 11.45 min Scan# 1107
Delta R.T. -0.01 min
Lab File: VF059325.D
Acq: 26 Jun 2018 19:05

Tgt Ion	Ratio	Lower	Upper
43	100		
70	30.9	28.8	43.2
55	23.6	17.4	26.0
61	28.2	21.1	31.7





#81

trans-1,4-Dichloro-2-butene

Concen: 1.936 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampled :

A0C2-03

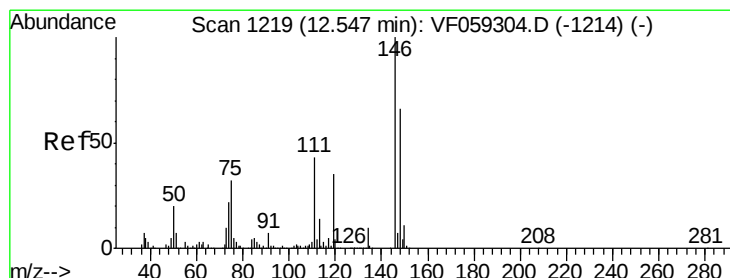
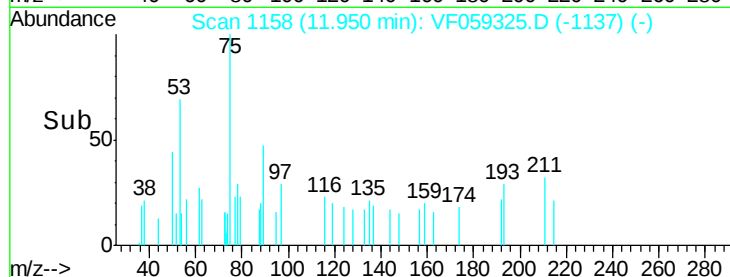
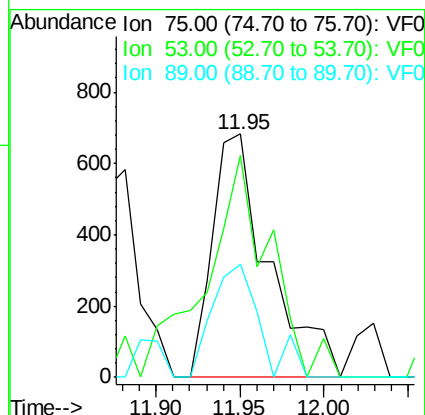
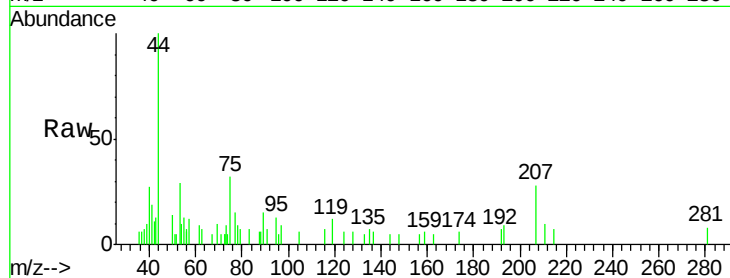
Tot Ion: 75 Resp: 1579

Ion Ratio Lower Upper

75 100

53 91.1 68.8 103.2

89 46.6 42.0 63.0



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

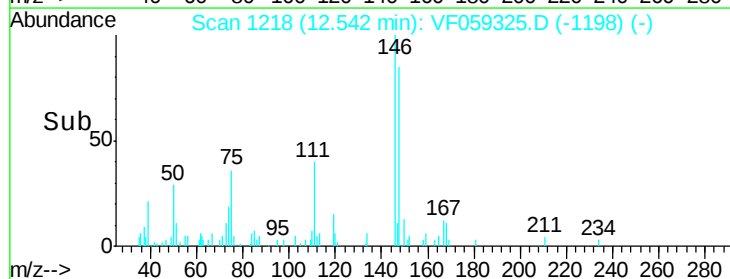
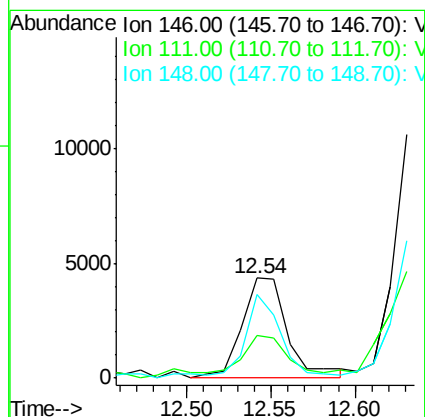
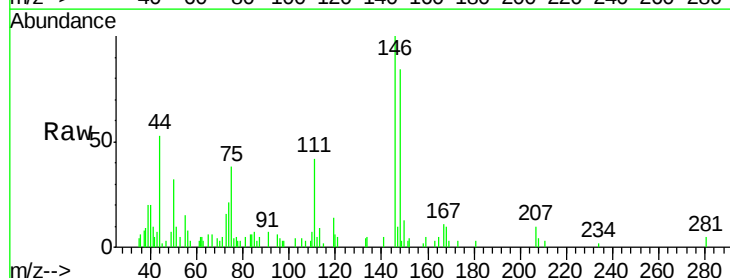
Tgt Ion: 146 Resp: 8261

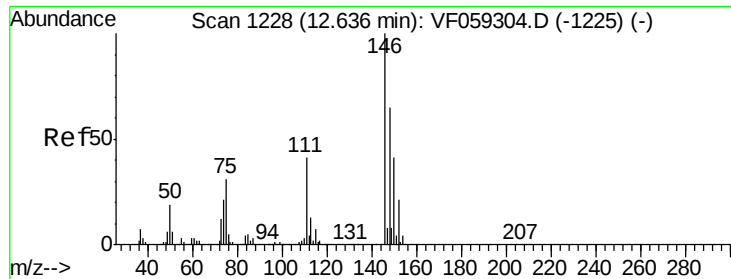
Ion Ratio Lower Upper

146 100

111 42.4 21.4 64.2

148 83.8 32.8 98.4

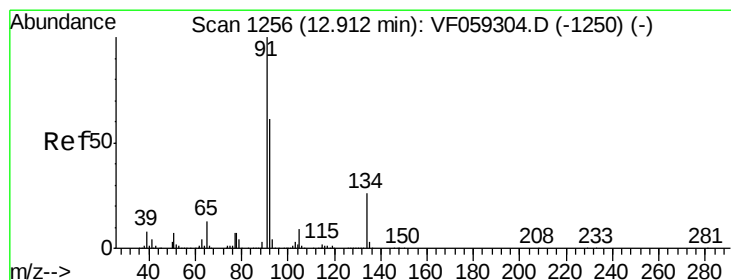
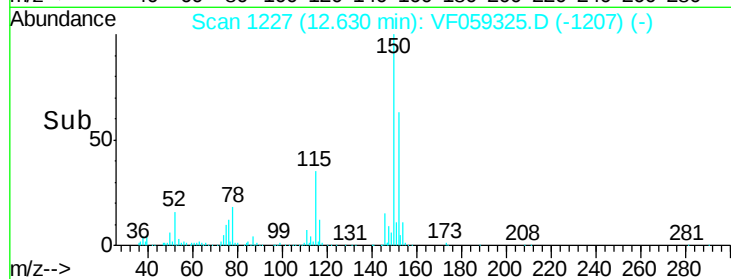
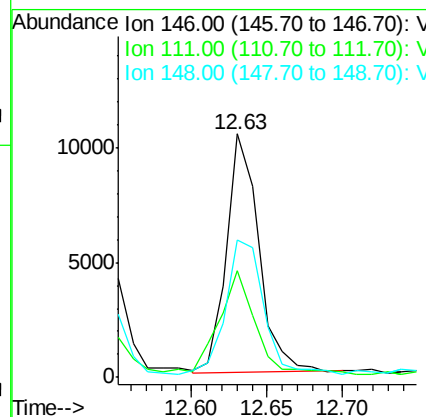
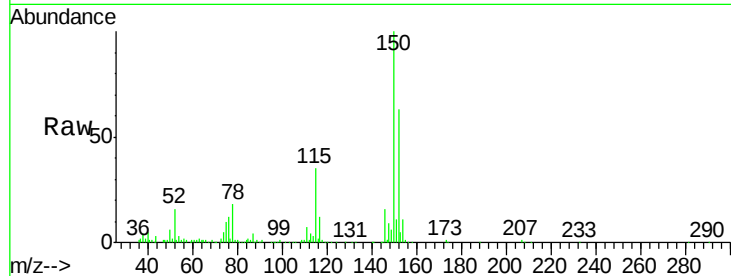




#88
 1,4-Dichlorobenzene
 Concen: 4.342 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.01 min
 Lab File: VF059325.D
 Acq: 26 Jun 2018 19:05

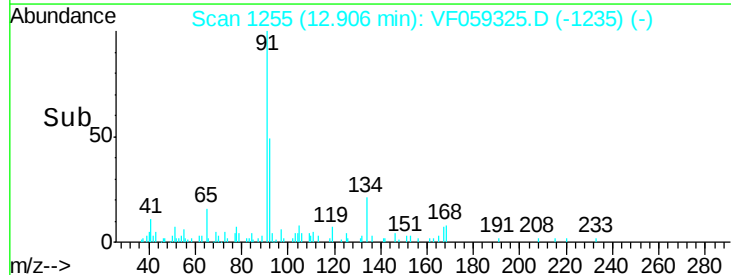
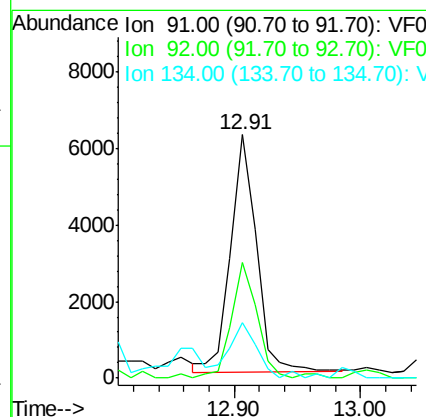
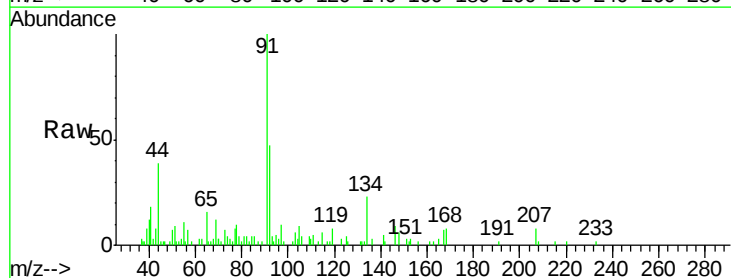
Instrument :
 MSVOA_F
 ClientSampled :
 A0C2-03

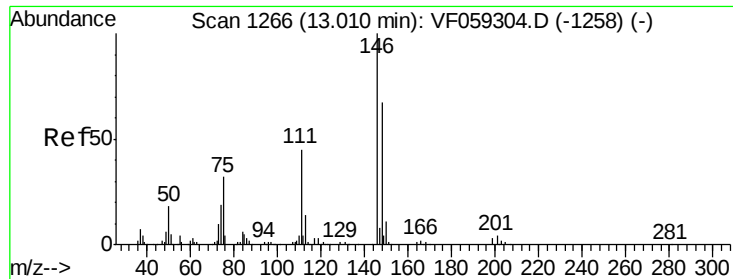
Tot Ion:146 Resp: 15473
 Ion Ratio Lower Upper
 146 100
 111 44.0 20.7 62.1
 148 56.4 32.8 98.3



#89
 n-Butylbenzene
 Concen: 1.243 ug/l
 RT: 12.91 min Scan# 1255
 Delta R.T. -0.01 min
 Lab File: VF059325.D
 Acq: 26 Jun 2018 19:05

Tgt Ion: 91 Resp: 8843
 Ion Ratio Lower Upper
 91 100
 92 47.3 30.3 91.0
 134 22.6 12.9 38.7





#91

1,2-Dichlorobenzene

Concen: 22.507 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

A0C2-03

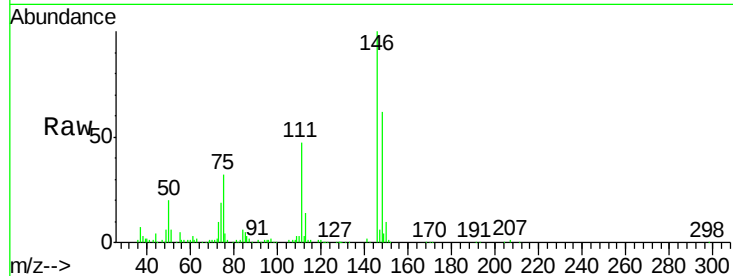
Tot Ion:146 Resp: 81524

Ion Ratio Lower Upper

146 100

111 47.4 22.7 68.0

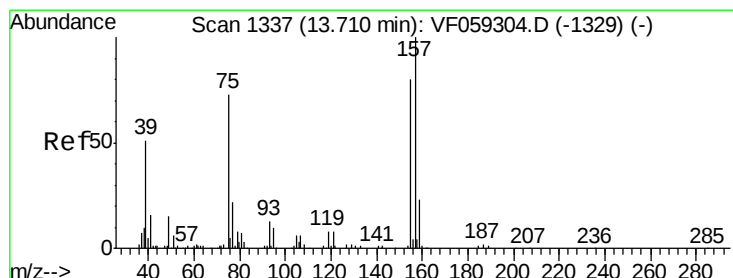
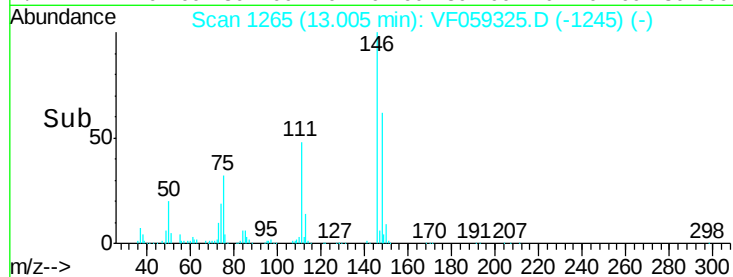
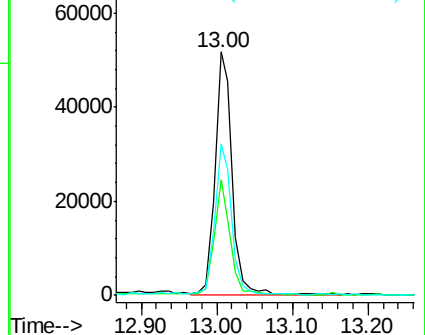
148 62.0 33.5 100.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.049 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VF059325.D

Acq: 26 Jun 2018 19:05

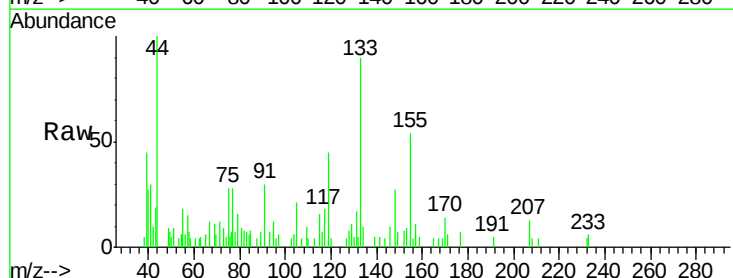
Tgt Ion: 75 Resp: 1630

Ion Ratio Lower Upper

75 100

155 164.0 54.6 163.8#

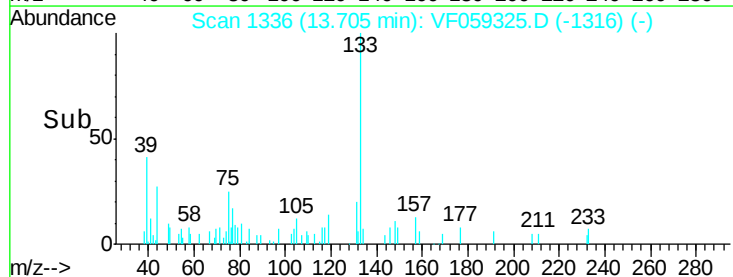
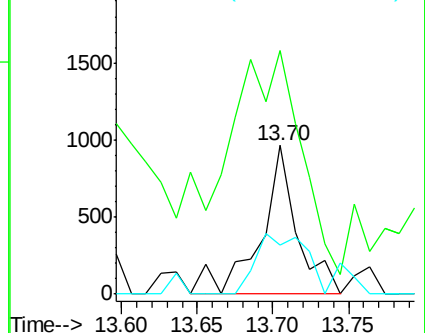
157 33.4 68.7 205.9#

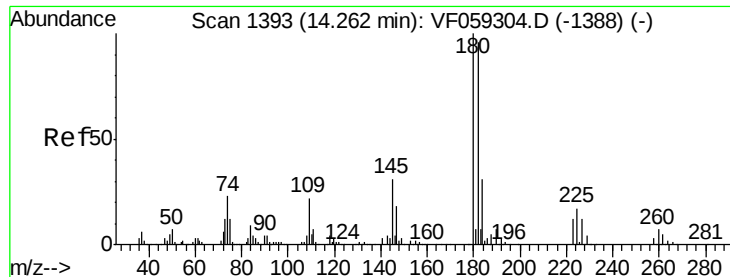


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

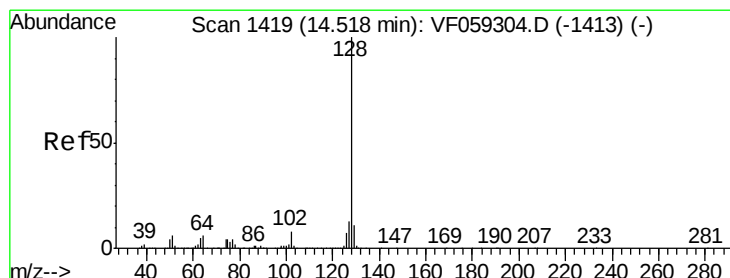
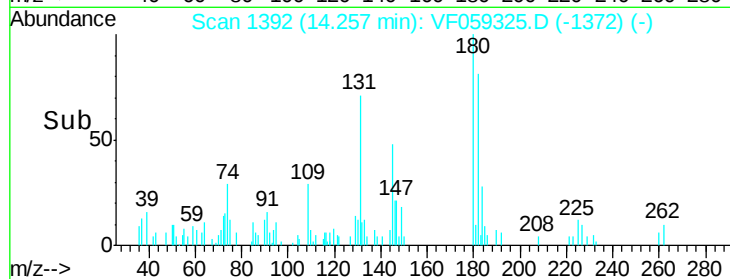
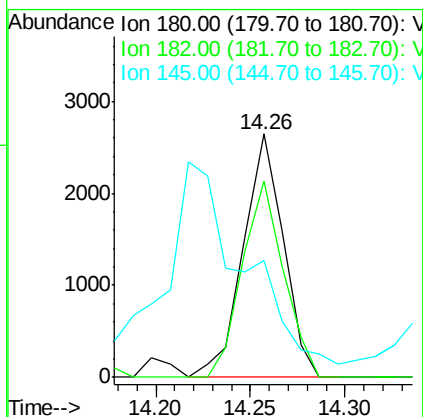
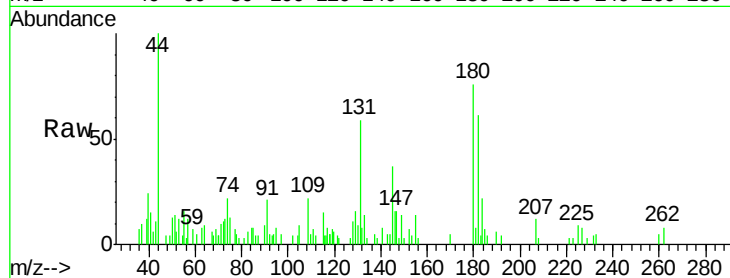




#93
 1,2,4-Trichlorobenzene
 Concen: 1.454 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059325.D
 Acq: 26 Jun 2018 19:05

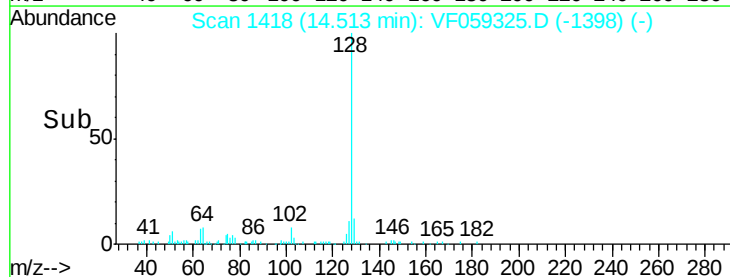
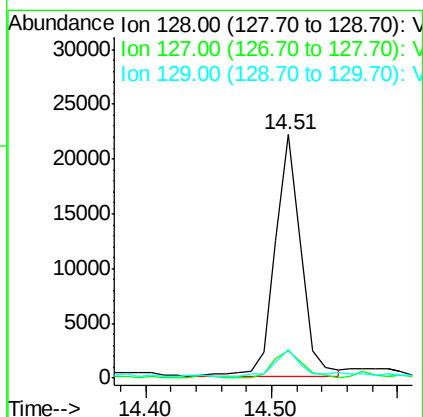
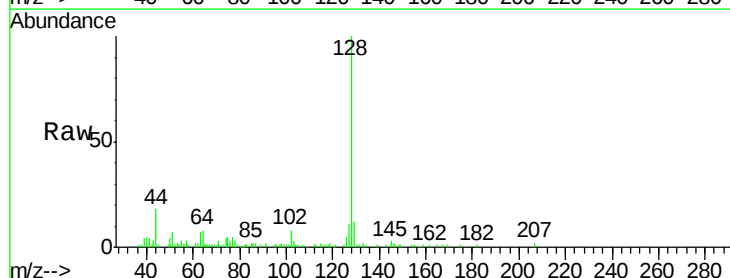
Instrument :
 MSVOA_F
 ClientSampleId :
 A0C2-03

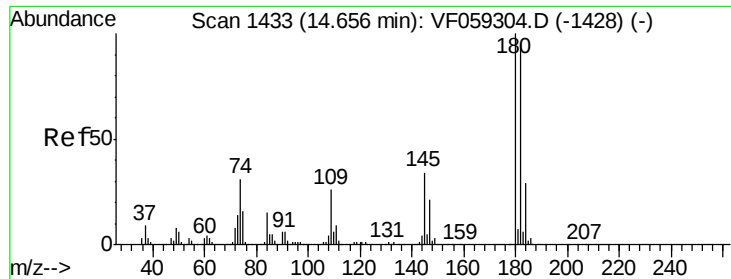
Tot Ion:180 Resp: 3894
 Ion Ratio Lower Upper
 180 100
 182 80.8 48.1 144.3
 145 48.3 15.3 45.8#



#95
 Naphthalene
 Concen: 5.637 ug/l
 RT: 14.51 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: VF059325.D
 Acq: 26 Jun 2018 19:05

Tgt Ion:128 Resp: 31588
 Ion Ratio Lower Upper
 128 100
 127 11.1 10.1 15.1
 129 11.9 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 1.999 ug/l
 RT: 14.66 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VF059325.D
 Acq: 26 Jun 2018 19:05

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C2-03

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.3	47.5	142.5
145	35.6	17.0	50.9

