

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF103018\
 Data File : VF060541.D
 Acq On : 30 Oct 2018 12:53
 Operator : VA/AP
 Sample : VF1030SBL01
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1030SBL01

Quant Time: Oct 31 04:48:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F102918S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 30 05:31:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	268980	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	425333	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	362787	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	228184	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	221957	53.50	ug/l	-0.02
Spiked Amount			Recovery	=	107.00%	
35) Dibromofluoromethane	4.29	113	228737	56.04	ug/l	-0.02
Spiked Amount			Recovery	=	112.08%	
50) Toluene-d8	7.71	98	510892	51.26	ug/l	-0.02
Spiked Amount			Recovery	=	102.52%	
62) 4-Bromofluorobenzene	11.51	95	234682	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	

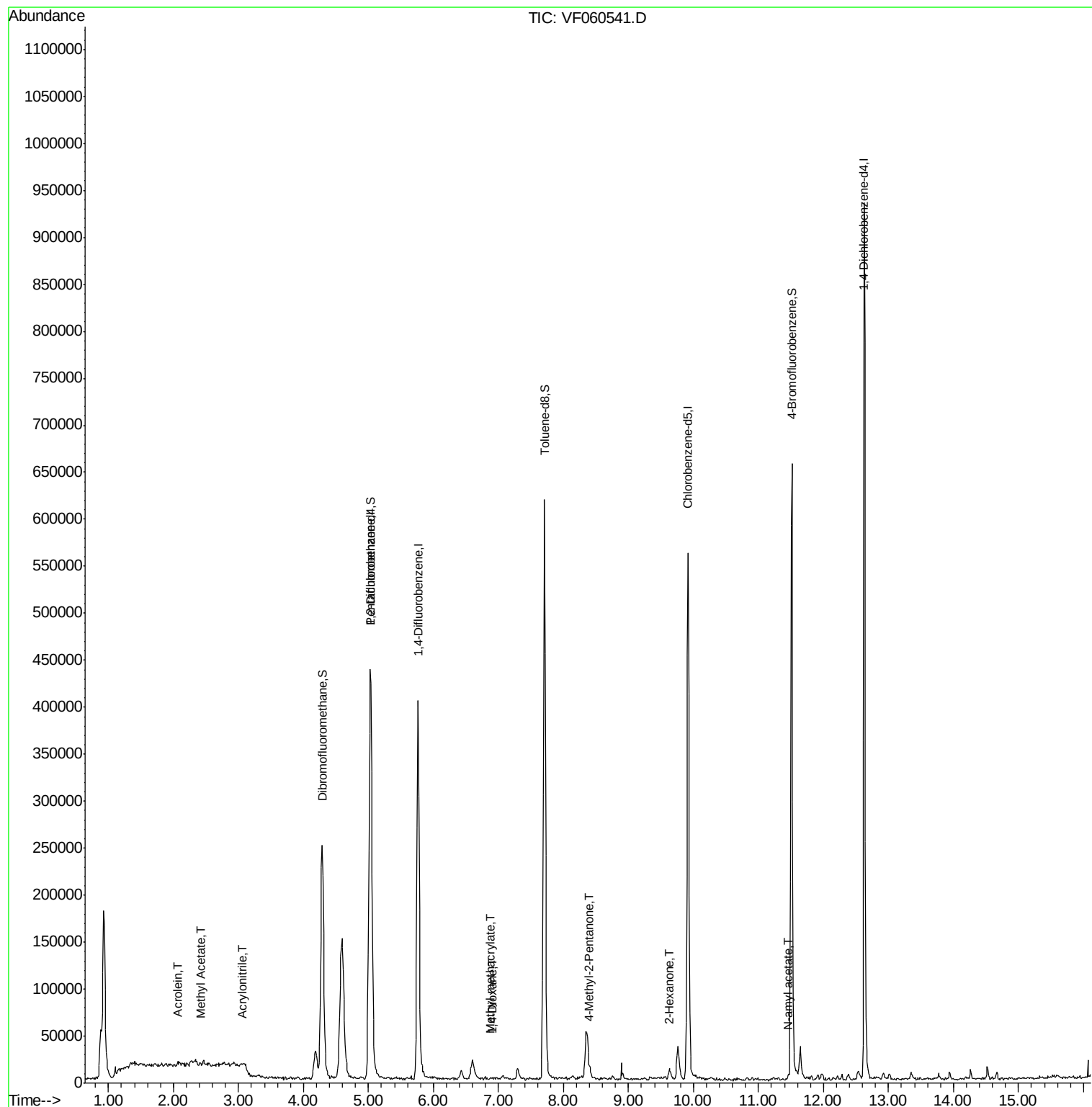
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	842	Below Cal	#	41
3) Chloromethane	1.08	50	971	Below Cal		95
9) 1,1,2-Trichlorotrifluoroet	1.86	101	169	Below Cal	#	38
11) Tert butyl alcohol	2.69	59	745	Below Cal	#	1
13) Acrolein	2.08	56	1226	5.394	ug/l	88
15) Acrylonitrile	3.07	53	1185	2.856	ug/l #	61
16) Acetone	2.34	43	5819	Below Cal		94
18) Methyl Acetate	2.42	43	1823	4.298	ug/l #	92
20) Methylene Chloride	2.27	84	1950	Below Cal	#	43
25) 2-Butanone	4.50	43	1597	Below Cal		93
29) Tetrahydrofuran	4.25	42	1417	Below Cal	#	78
48) Methyl methacrylate	6.88	41	1595	1.114	ug/l #	63
49) 1,4-Dioxane	6.90	88	256	19.213	ug/l #	88
51) 4-Methyl-2-Pentanone	8.41	43	7816	5.196	ug/l #	85
59) 2-Hexanone	9.63	43	10314	11.669	ug/l	88
74) N-amyl acetate	11.46	43	4129	1.182	ug/l #	92
89) n-Butylbenzene	12.92	91	3369	Below Cal		76

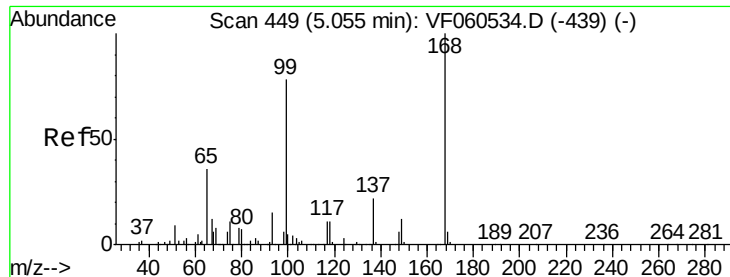
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 30 05:31:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 447

Delta R.T. -0.02 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

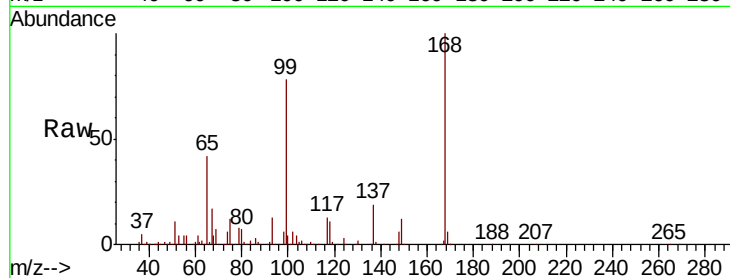
VF1030SBL01

Tot Ion:168 Resp: 268980

Ion Ratio Lower Upper

168 100

99 78.2 62.6 93.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

100000

80000

60000

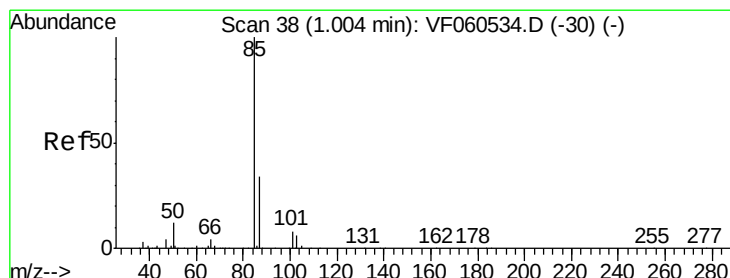
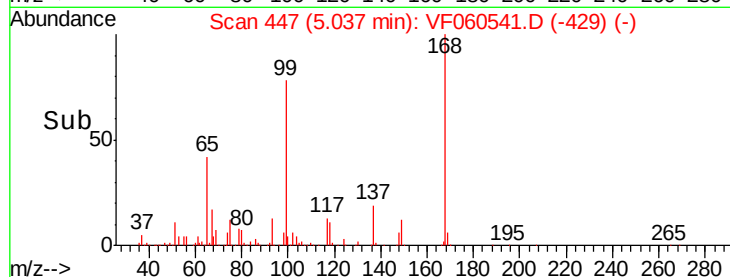
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 38

Delta R.T. 0.00 min

Lab File: VF060541.D

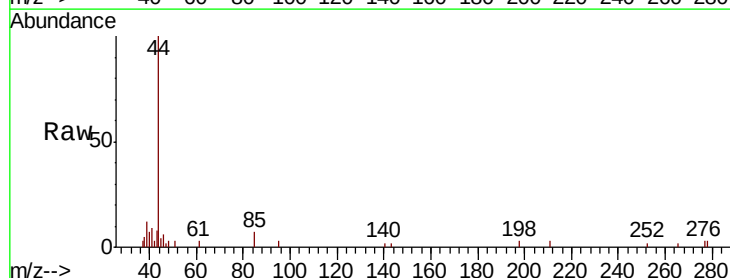
Acq: 30 Oct 2018 12:53

Tgt Ion: 85 Resp: 842

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

400

300

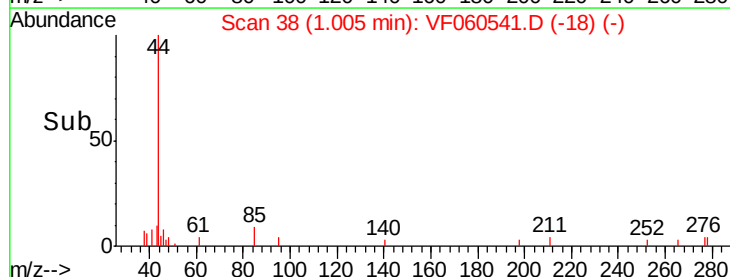
200

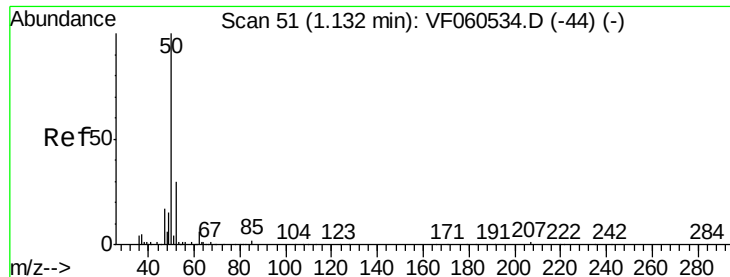
100

0

Time-->

0.95 1.00 1.05 1.10





#3

Chloromethane

Concen: Below Cal

RT: 1.08 min Scan# 46

Delta R.T. -0.05 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

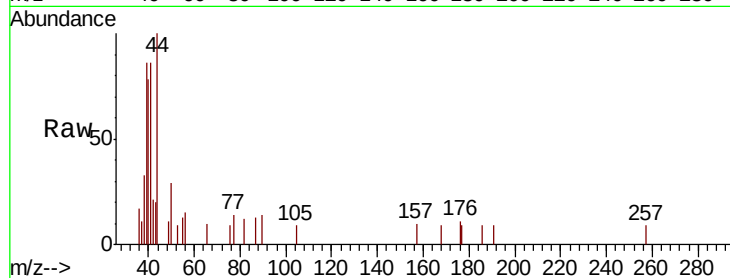
VF1030SBL01

Tot Ion: 50 Resp: 971

Ion Ratio Lower Upper

50 100

52 31.2 22.8 34.2



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

400

300

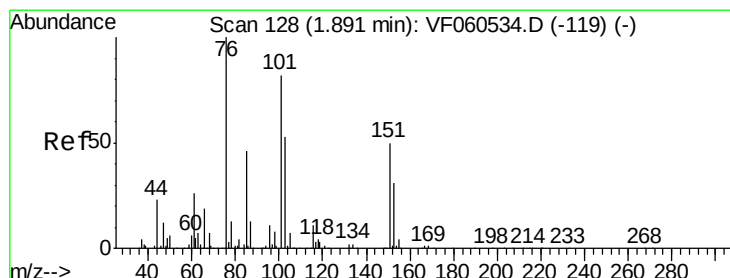
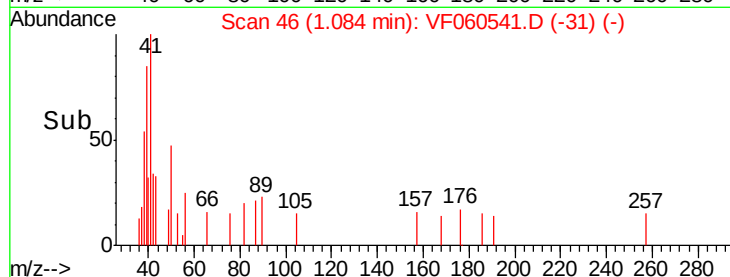
200

100

0

1.05 1.10 1.15

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: Below Cal

RT: 1.86 min Scan# 125

Delta R.T. -0.03 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

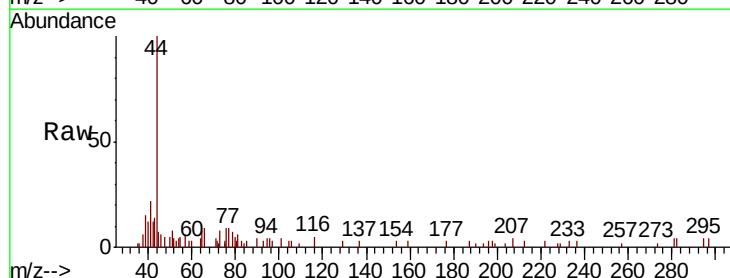
Tgt Ion: 101 Resp: 169

Ion Ratio Lower Upper

101 100

85 87.6 44.6 67.0#

151 0.0 48.4 72.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V

300

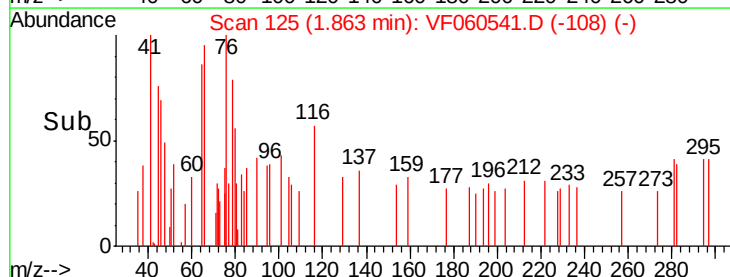
200

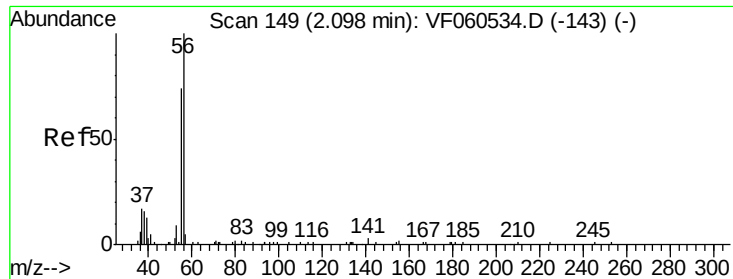
100

0

1.84 1.86 1.88

Time-->





#13

Acrolein

Concen: 5.394 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

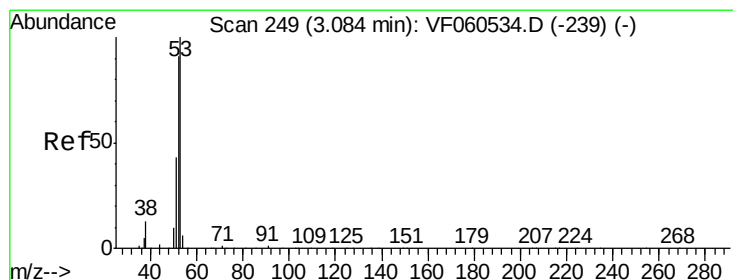
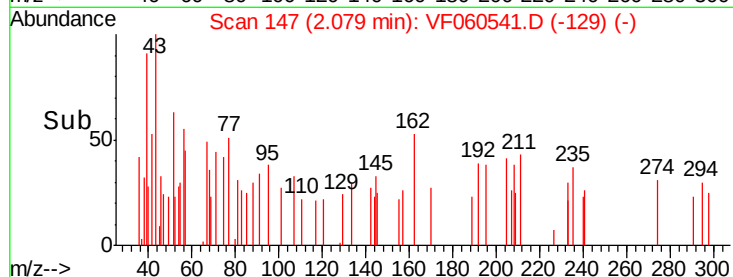
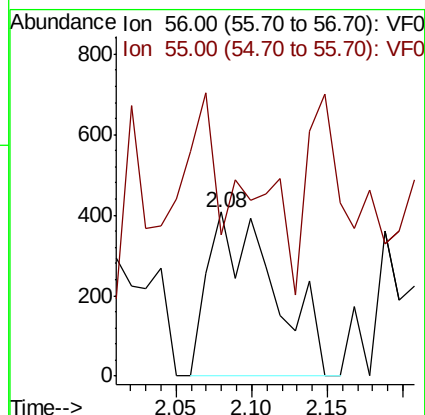
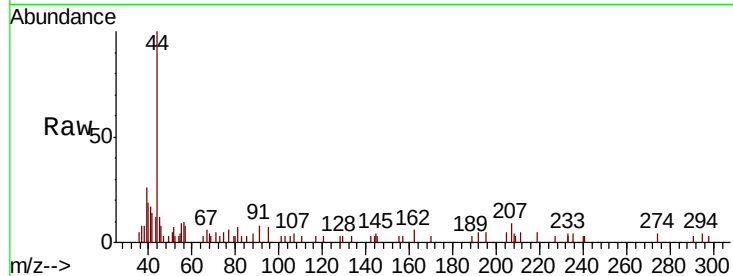
VF1030SBL01

Tot Ion: 56 Resp: 1226

Ion Ratio Lower Upper

56 100

55 86.0 60.4 90.6



#15

Acrylonitrile

Concen: 2.856 ug/l

RT: 3.07 min Scan# 247

Delta R.T. -0.02 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

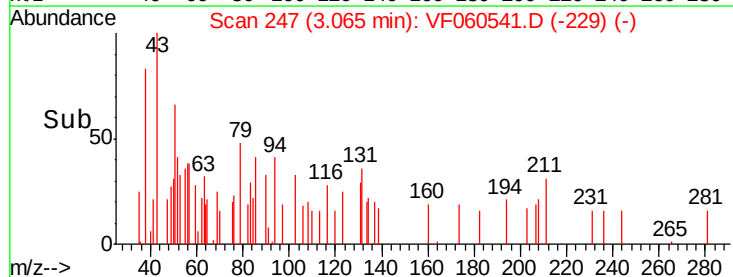
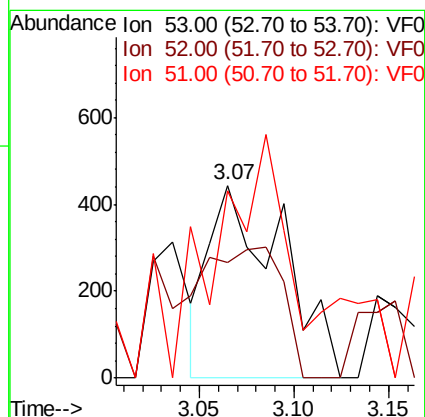
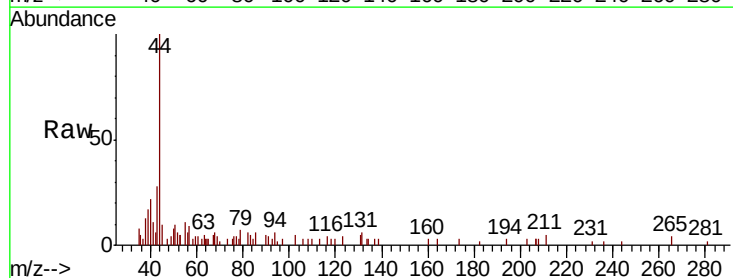
Tgt Ion: 53 Resp: 1185

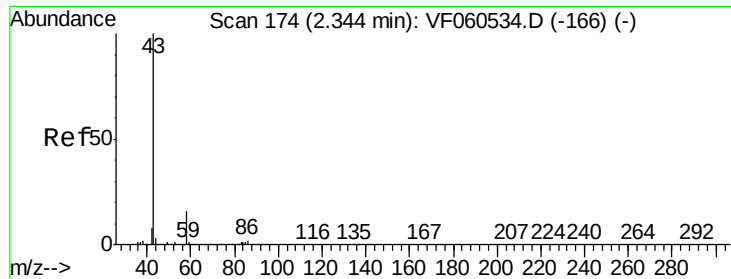
Ion Ratio Lower Upper

53 100

52 108.8 73.2 109.8

51 97.1 35.0 52.4#





#16

Acetone

Concen: Below Cal

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

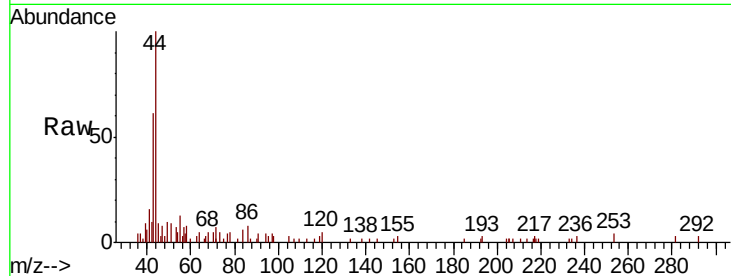
VF1030SBL01

Tot Ion: 43 Resp: 5819

Ion Ratio Lower Upper

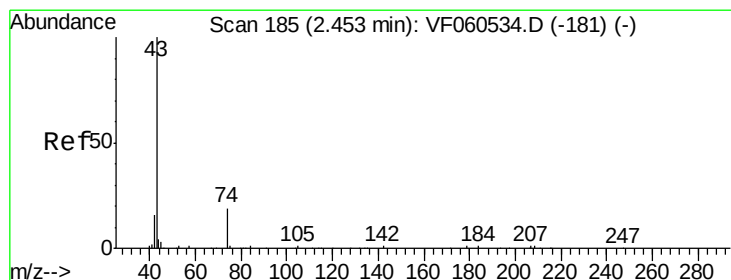
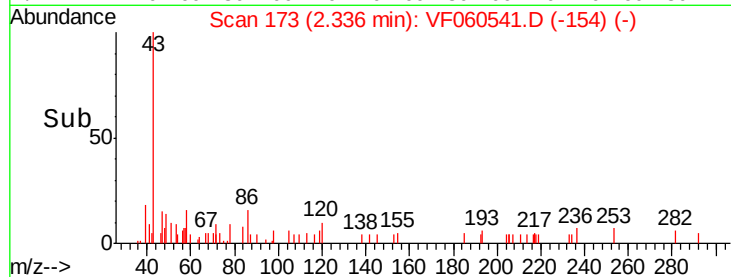
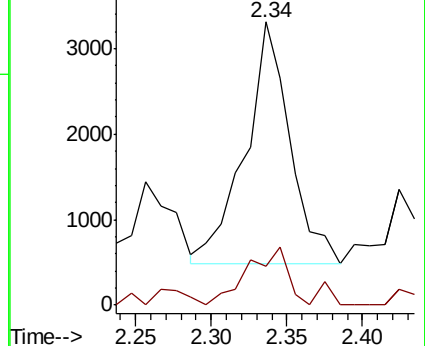
43 100

58 13.6 12.8 19.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 4.298 ug/l

RT: 2.42 min Scan# 182

Delta R.T. -0.03 min

Lab File: VF060541.D

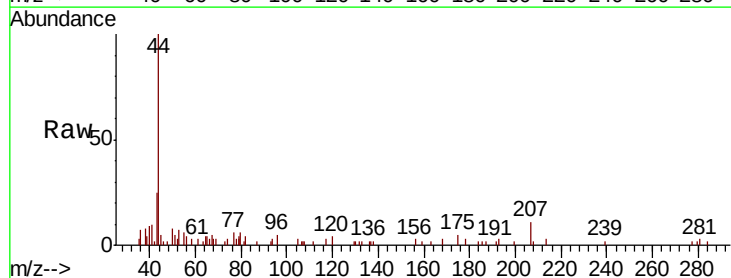
Acq: 30 Oct 2018 12:53

Tgt Ion: 43 Resp: 1823

Ion Ratio Lower Upper

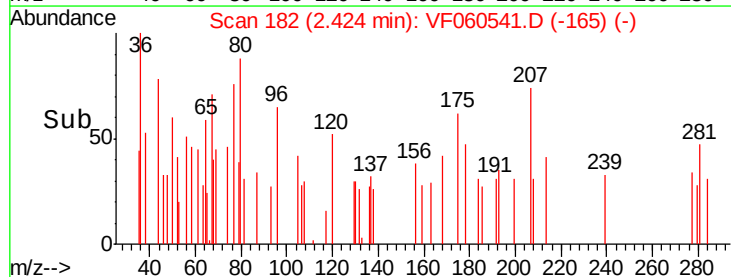
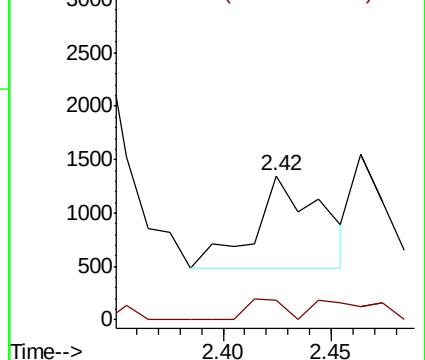
43 100

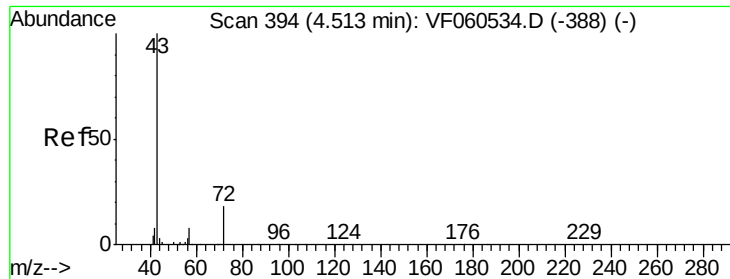
74 13.5 13.5 20.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#25

2-Butanone

Concen: Below Cal

RT: 4.50 min Scan# 393

Delta R.T. -0.01 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

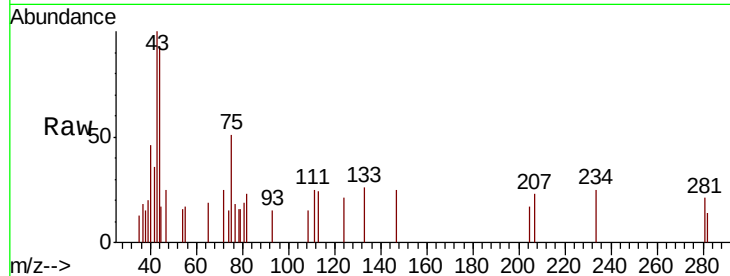
VF1030SBL01

Tot Ion: 43 Resp: 1597

Ion Ratio Lower Upper

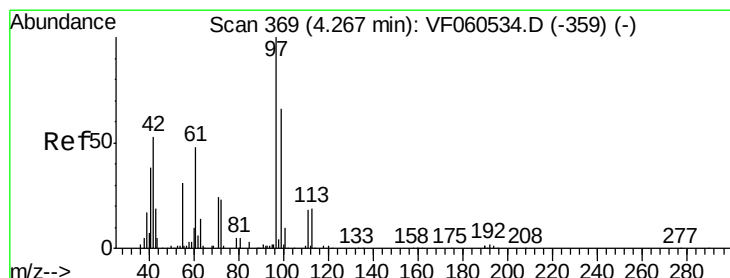
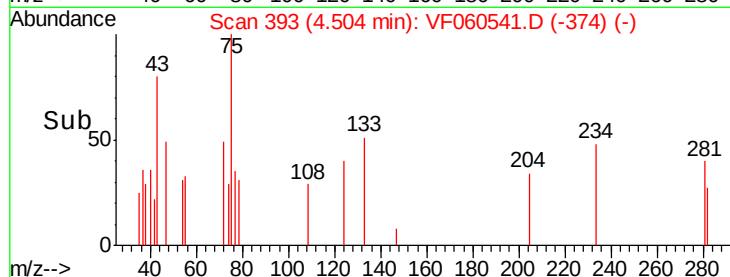
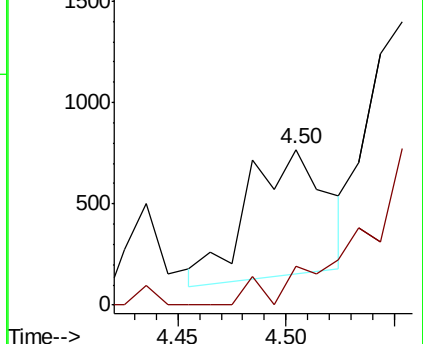
43 100

72 25.1 17.4 26.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 367

Delta R.T. -0.02 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

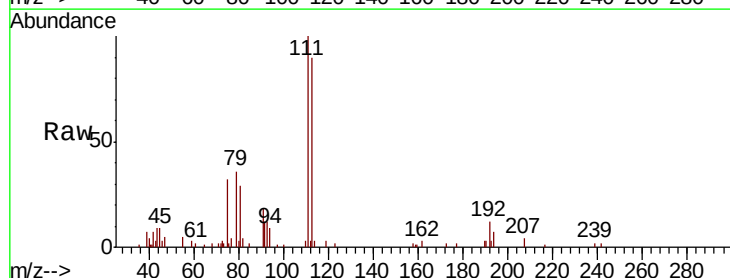
Tgt Ion: 42 Resp: 1417

Ion Ratio Lower Upper

42 100

72 50.0 32.5 48.7#

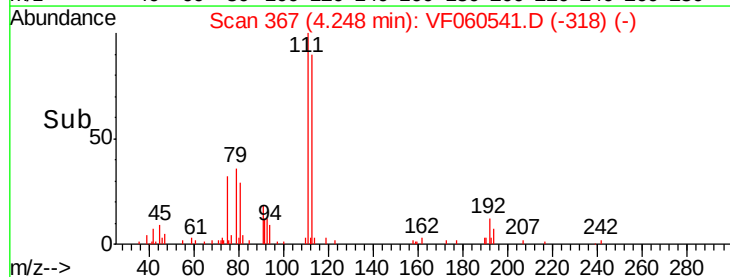
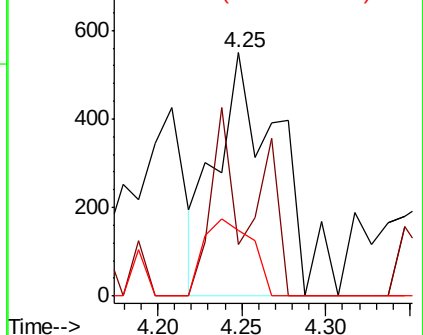
71 24.4 34.5 51.7#

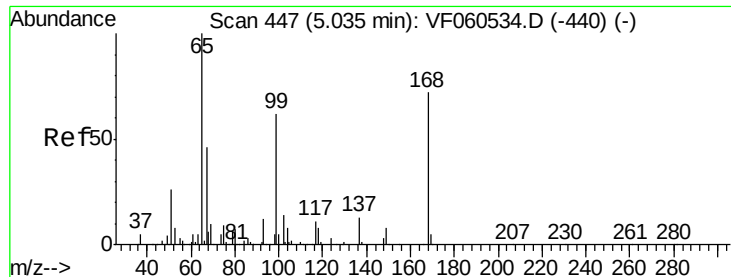


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

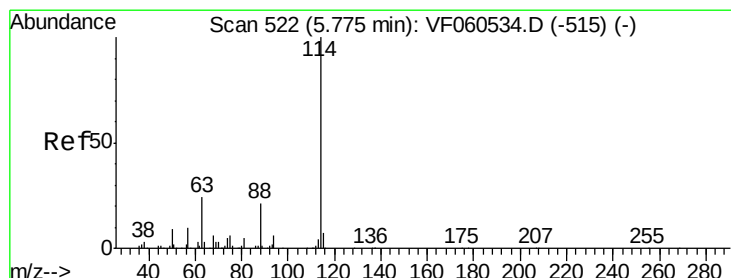
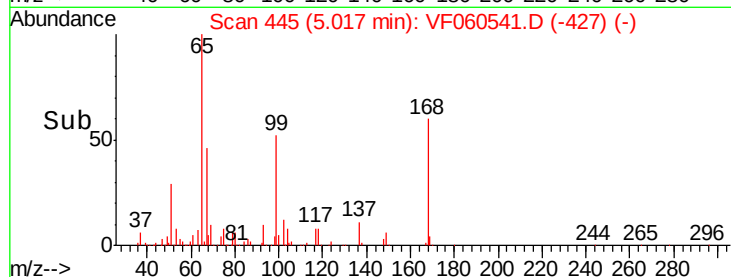
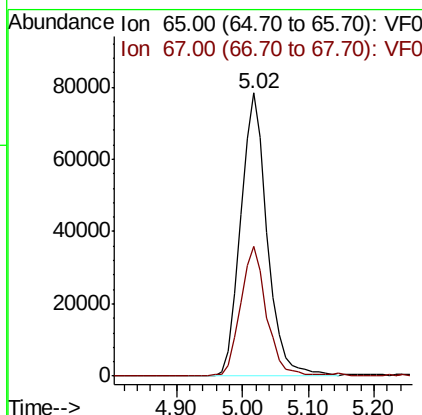
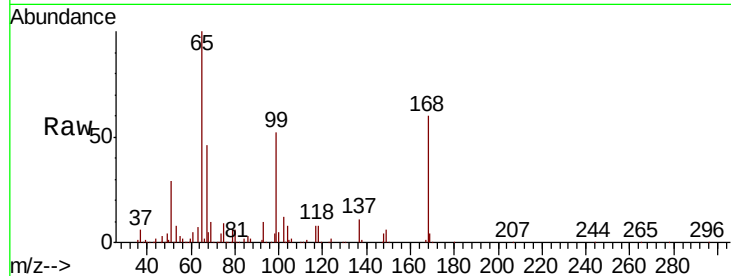




#33
 1,2-Dichloroethane-d4
 Concen: 53.498 ug/l
 RT: 5.02 min Scan# 445
 Delta R.T. -0.02 min
 Lab File: VF060541.D
 Acq: 30 Oct 2018 12:53

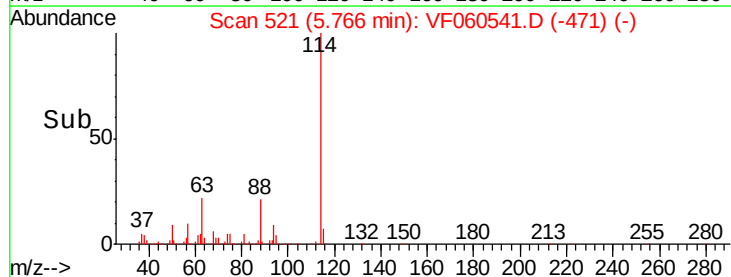
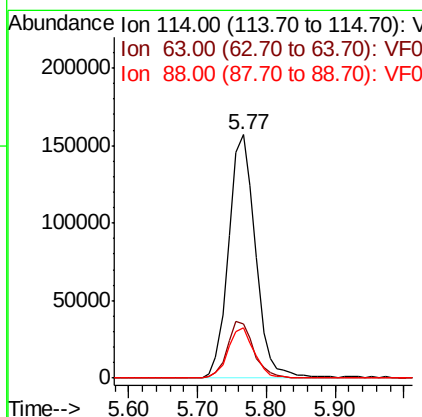
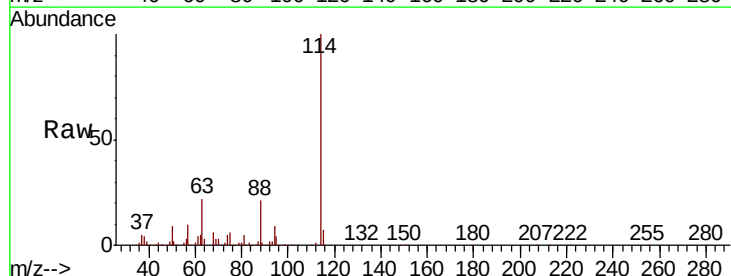
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1030SBL01

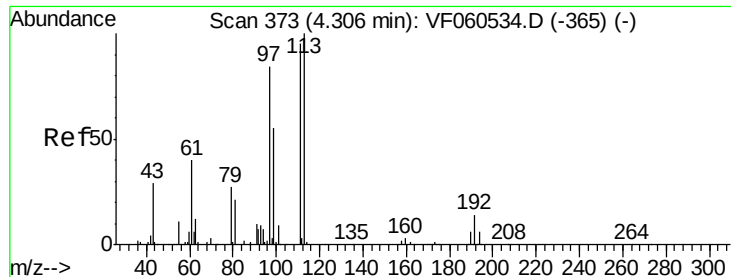
Tot Ion: 65 Resp: 221957
 Ion Ratio Lower Upper
 65 100
 67 45.9 0.0 94.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VF060541.D
 Acq: 30 Oct 2018 12:53

Tgt Ion: 114 Resp: 425333
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 48.0
 88 20.6 0.0 42.0





#35

Dibromofluoromethane

Concen: 56.044 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.02 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1030SBL01

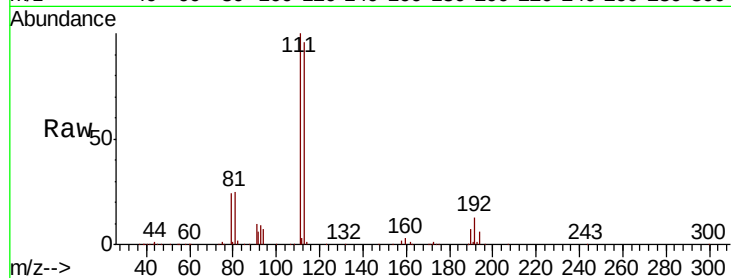
Tot Ion:113 Resp: 228737

Ion Ratio Lower Upper

113 100

111 103.9 75.9 113.9

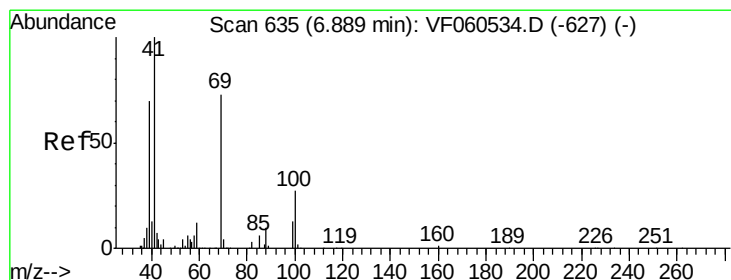
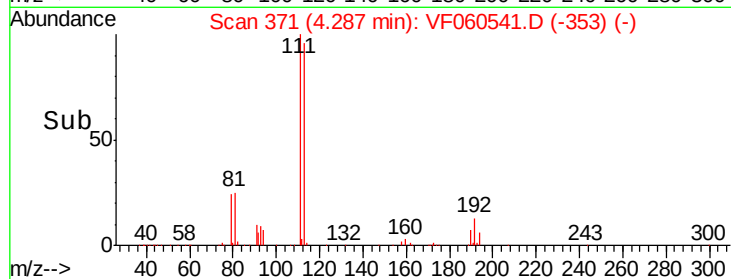
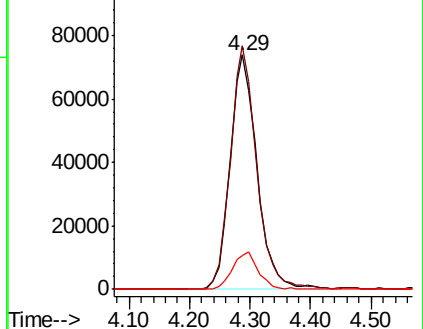
192 14.6 11.2 16.8



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



#48

Methyl methacrylate

Concen: 1.114 ug/l

RT: 6.88 min Scan# 634

Delta R.T. -0.01 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

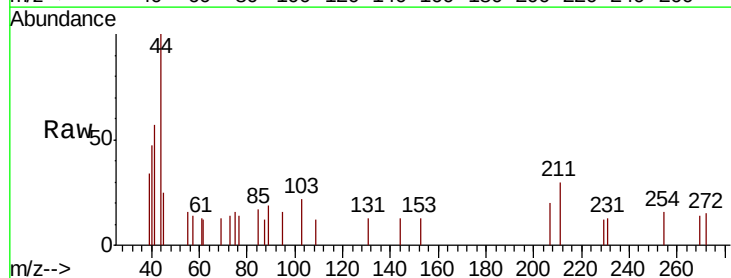
Tgt Ion: 41 Resp: 1595

Ion Ratio Lower Upper

41 100

69 23.0 58.4 87.6#

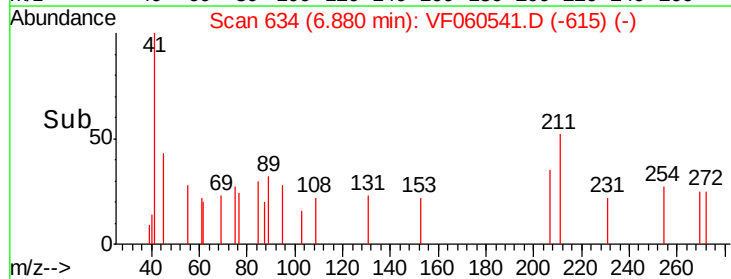
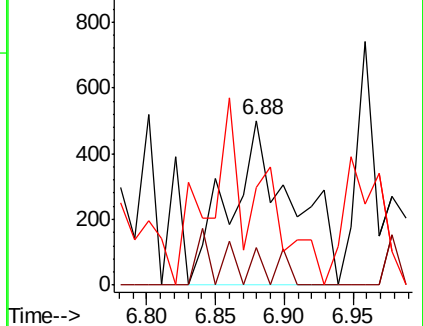
39 59.2 56.4 84.6

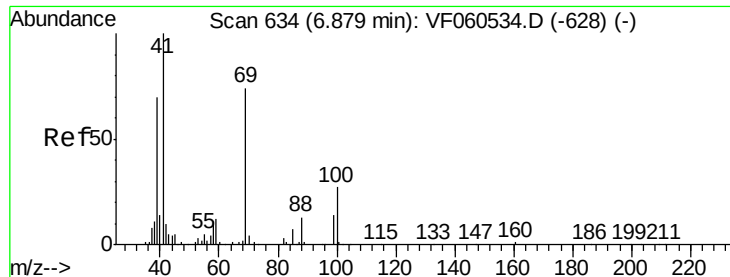


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 19.213 ug/l

RT: 6.90 min Scan# 636

Delta R.T. 0.02 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1030SBL01

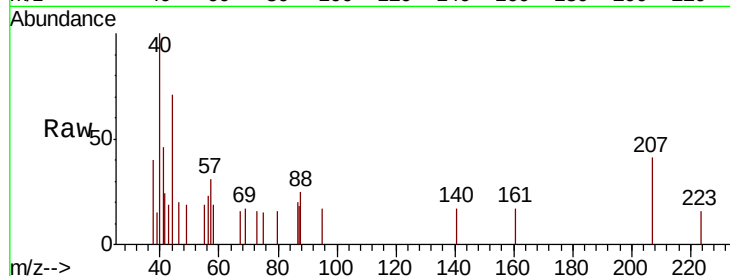
Tot Ion: 88 Resp: 256

Ion Ratio Lower Upper

88 100

43 75.6 49.7 74.5#

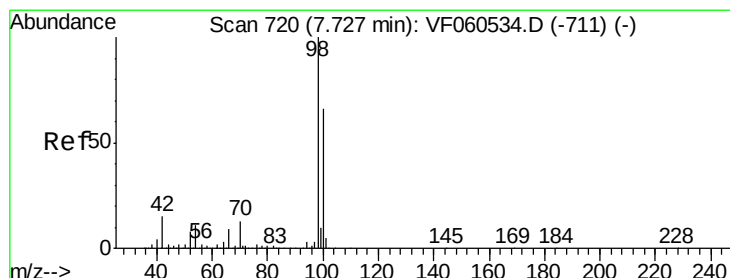
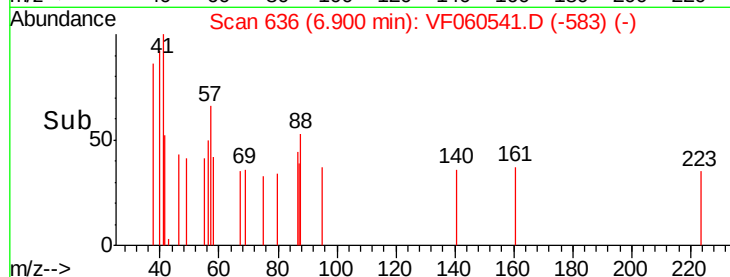
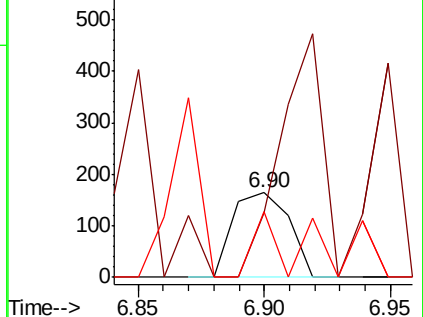
58 78.0 67.7 101.5



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.256 ug/l

RT: 7.71 min Scan# 718

Delta R.T. -0.02 min

Lab File: VF060541.D

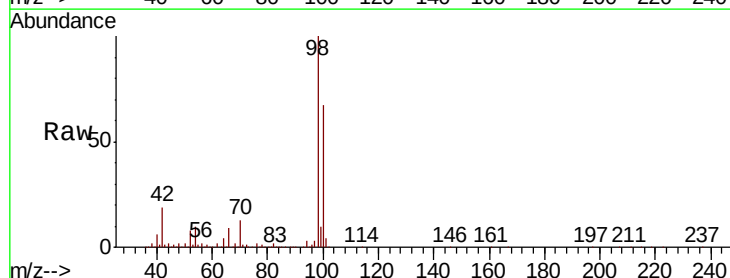
Acq: 30 Oct 2018 12:53

Tgt Ion: 98 Resp: 510892

Ion Ratio Lower Upper

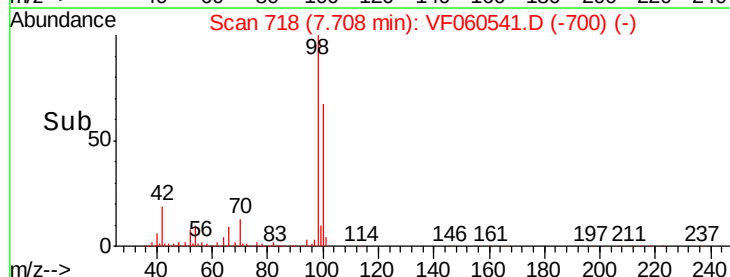
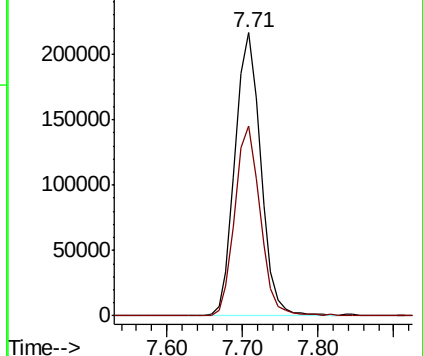
98 100

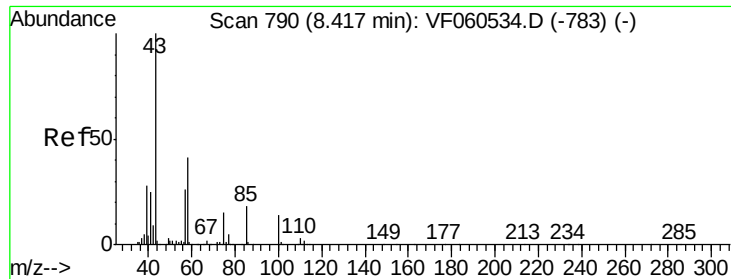
100 67.1 53.0 79.6



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: 5.196 ug/l

RT: 8.41 min Scan# 789

Delta R.T. -0.01 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

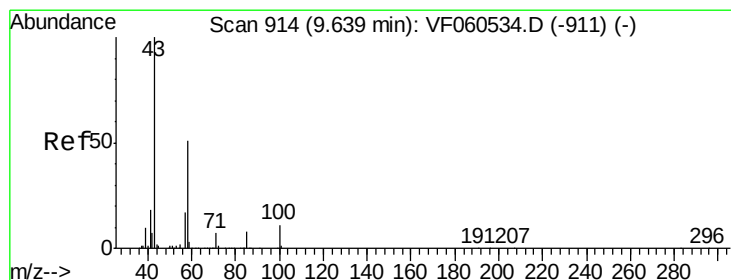
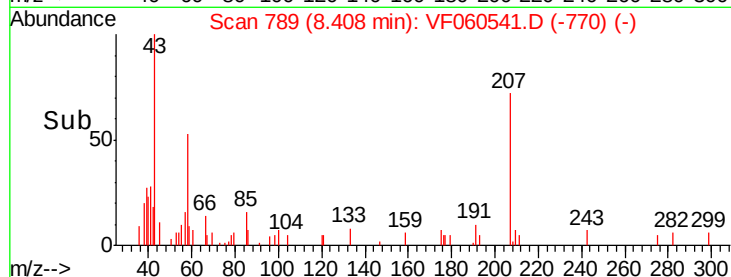
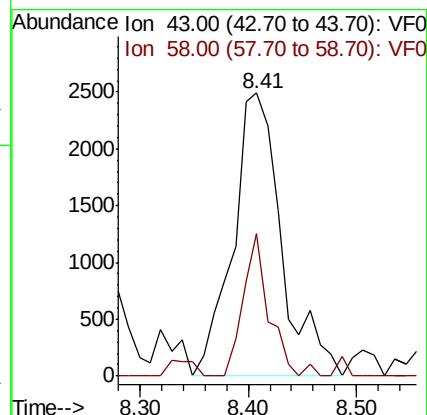
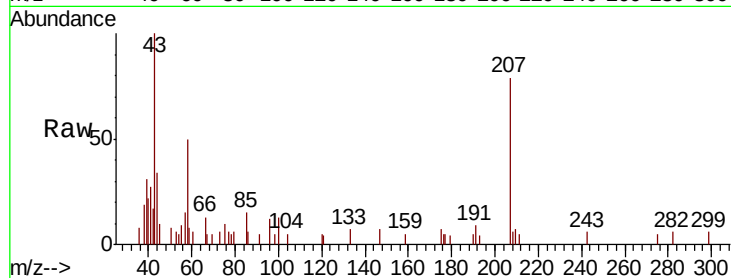
VF1030SBL01

Tot Ion: 43 Resp: 7816

Ion Ratio Lower Upper

43 100

58 50.3 32.6 49.0#



#59

2-Hexanone

Concen: 11.669 ug/l

RT: 9.63 min Scan# 913

Delta R.T. -0.01 min

Lab File: VF060541.D

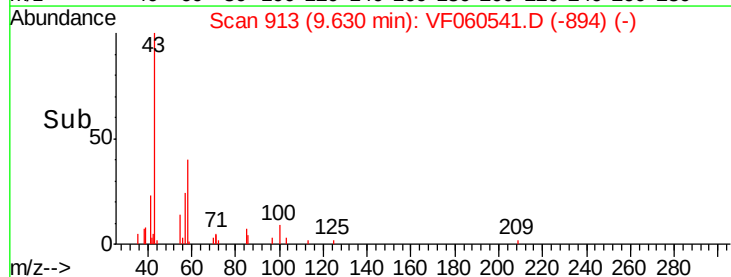
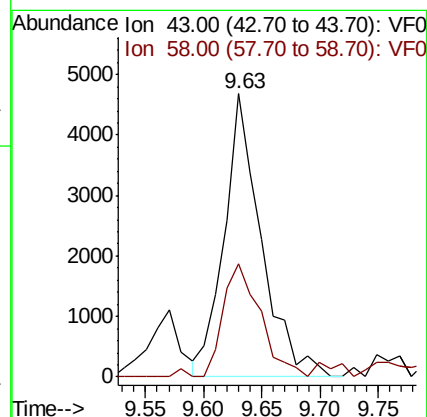
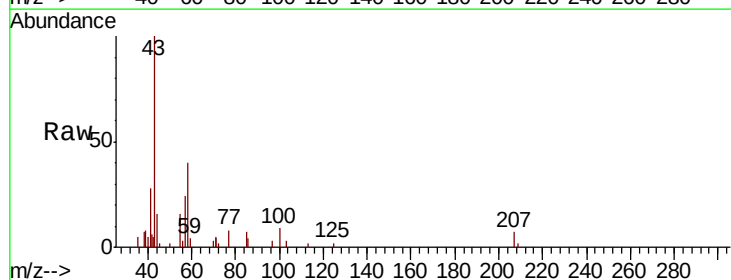
Acq: 30 Oct 2018 12:53

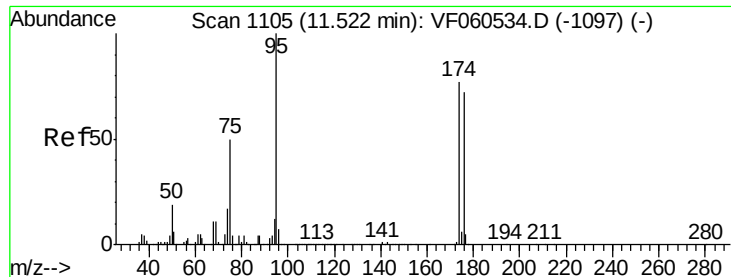
Tgt Ion: 43 Resp: 10314

Ion Ratio Lower Upper

43 100

58 40.2 24.1 72.3

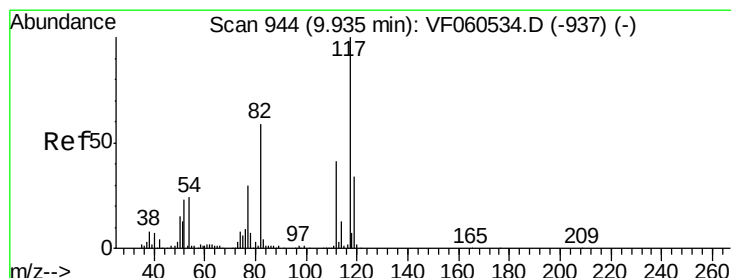
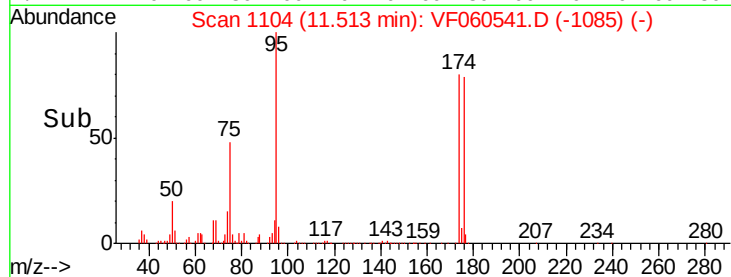
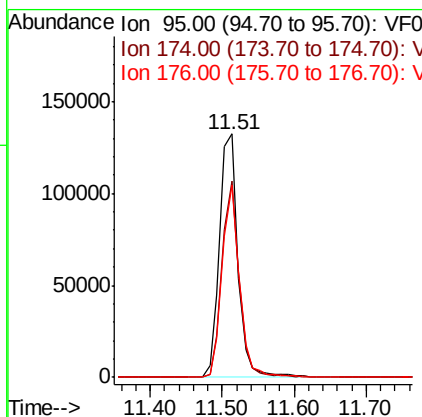
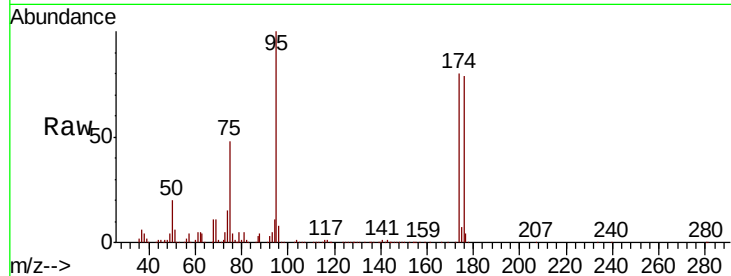




#62
4-Bromofluorobenzene
Concen: 51.099 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. -0.01 min
Lab File: VF060541.D
Acq: 30 Oct 2018 12:53

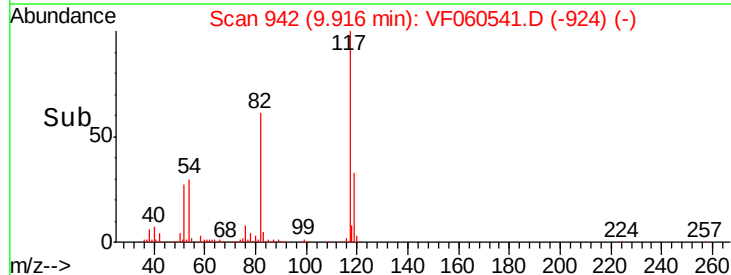
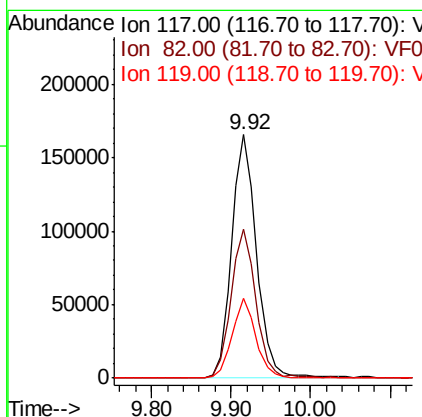
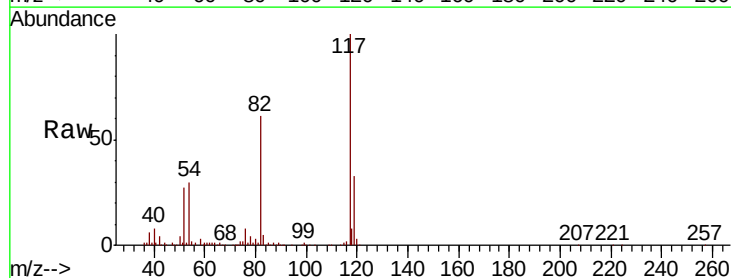
Instrument :
MSVOA_F
ClientSampleId :
VF1030SBL01

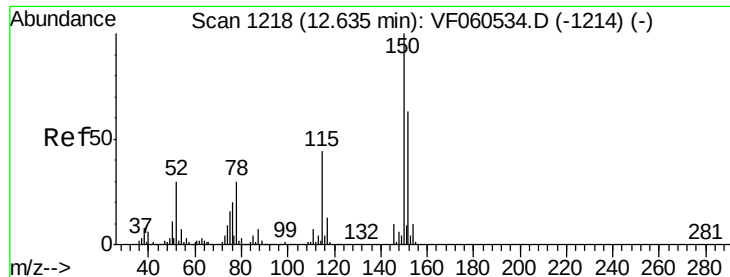
Tot Ion: 95 Resp: 234682
Ion Ratio Lower Upper
95 100
174 80.4 0.0 153.8
176 79.3 0.0 143.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF060541.D
Acq: 30 Oct 2018 12:53

Tgt Ion: 117 Resp: 362787
Ion Ratio Lower Upper
117 100
82 61.2 47.6 71.4
119 32.8 27.3 40.9



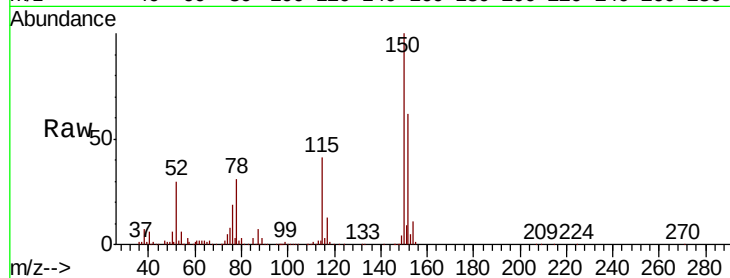


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.01 min
Lab File: VF060541.D
Acq: 30 Oct 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1030SBL01

Tot Ion	Ratio	Lower	Upper
152	100		
115	66.5	34.7	104.1
150	162.1	0.0	318.4

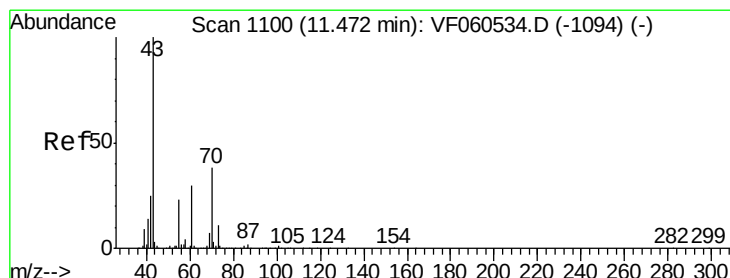
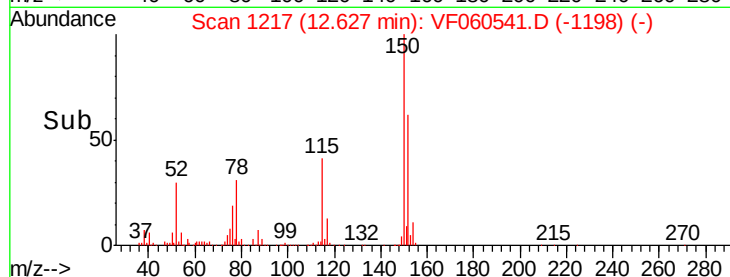
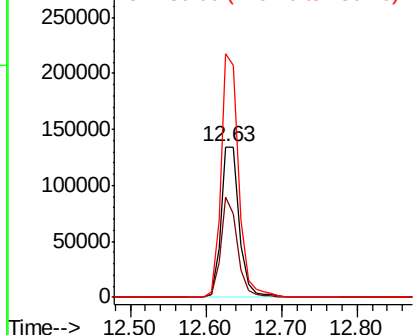


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

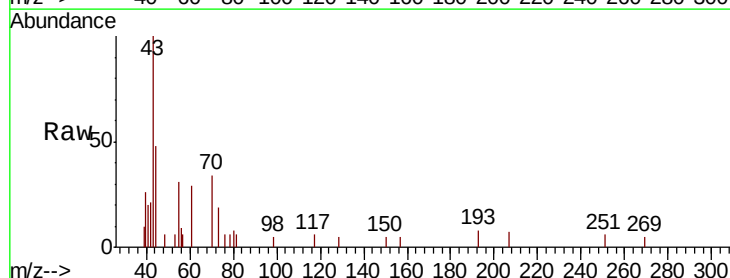
Ion 150.00 (149.70 to 150.70): V



#74

N-amil acetate
Concen: 1.182 ug/l
RT: 11.46 min Scan# 1099
Delta R.T. -0.01 min
Lab File: VF060541.D
Acq: 30 Oct 2018 12:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	33.5	30.8	46.2
55	30.6	18.2	27.4
61	29.0	23.8	35.8



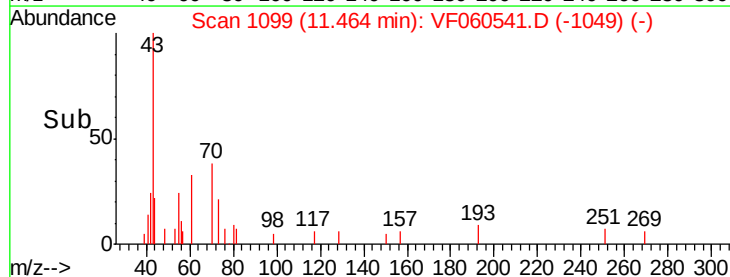
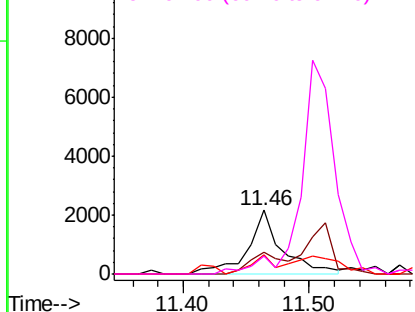
Abundance

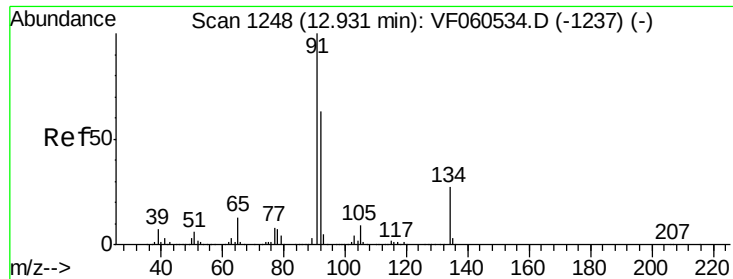
Ion 43.00 (42.70 to 43.70): VF0

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





#89

n-Butylbenzene

Concen: Below Cal

RT: 12.92 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VF060541.D

Acq: 30 Oct 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1030SBL01

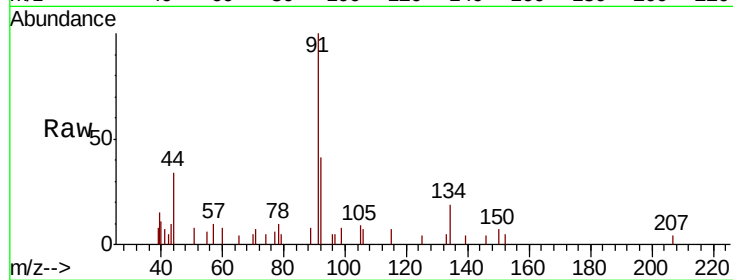
Tot Ion: 91 Resp: 3369

Ion Ratio Lower Upper

91 100

92 41.3 31.3 93.9

134 19.1 13.3 39.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

