

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061610.D
 Acq On : 12 Feb 2019 15:49
 Operator : VA/AP
 Sample : K1343-07
 Misc : 7.63g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-D

Quant Time: Feb 13 02:49:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	181310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	333463	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	268551	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	105927	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	114886	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
35) Dibromofluoromethane	4.11	113	131631	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
50) Toluene-d8	7.54	98	279696	38.80	ug/l	0.00
Spiked Amount			Recovery	=	77.60%	
62) 4-Bromofluorobenzene	11.40	95	121982	36.21	ug/l	0.00
Spiked Amount			Recovery	=	72.42%	

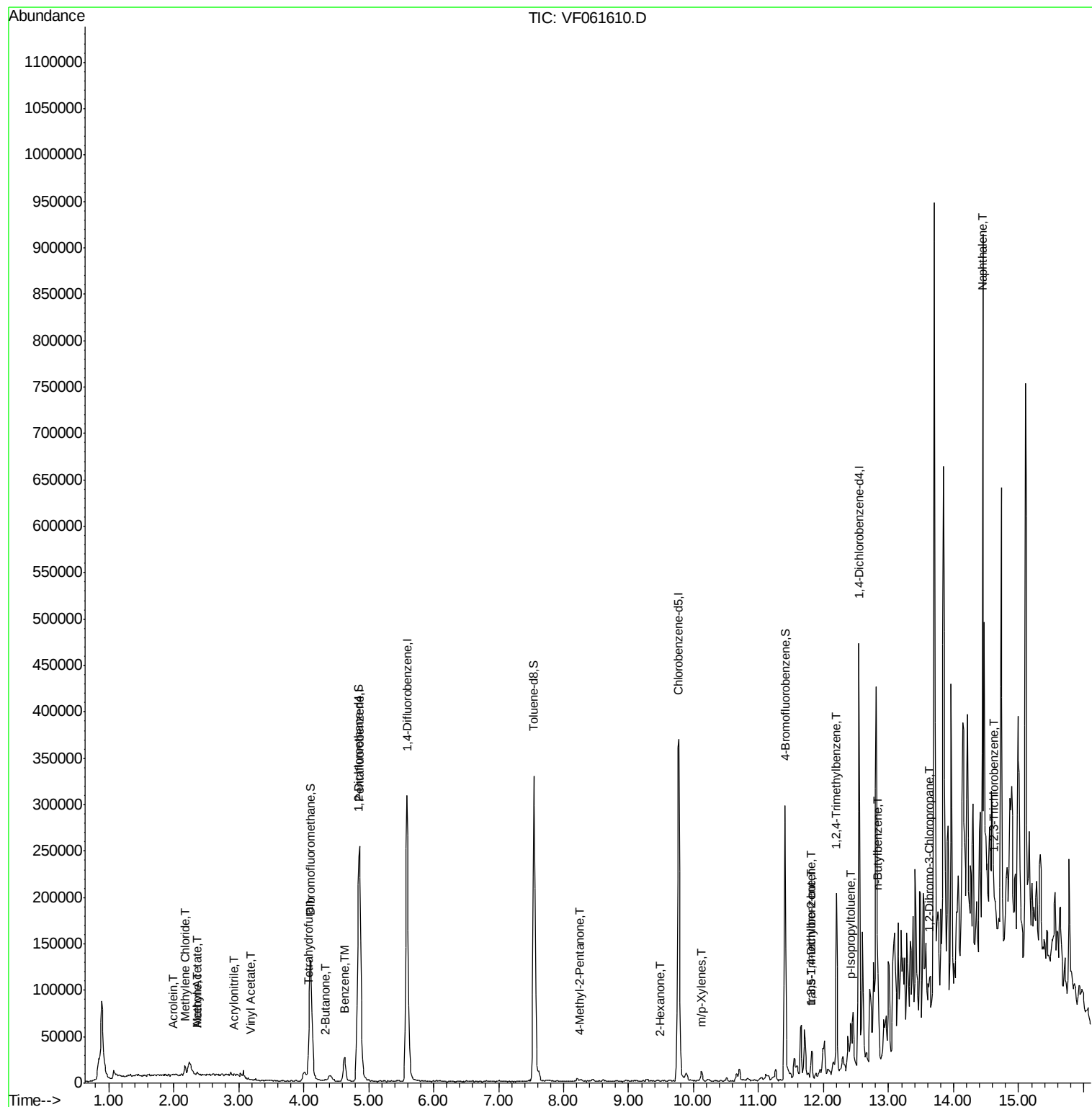
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.00	56	527	16.527	ug/l #	59
14) Allyl chloride	2.13	41	524	Below Cal	#	67
15) Acrylonitrile	2.92	53	386	1.590	ug/l #	8
16) Acetone	2.36	43	594	1.323	ug/l	96
18) Methyl Acetate	2.36	43	1547	1.737	ug/l #	61
20) Methylene Chloride	2.19	84	4713	1.383	ug/l #	83
23) Vinyl Acetate	3.18	43	698	3.467	ug/l #	78
25) 2-Butanone	4.33	43	2242	3.002	ug/l	94
29) Tetrahydrofuran	4.07	42	1131	3.517	ug/l #	79
40) Benzene	4.63	78	32797	3.812	ug/l	99
49) 1,4-Dioxane	6.77	88	69	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.25	43	2486	1.743	ug/l #	84
59) 2-Hexanone	9.49	43	1527	1.536	ug/l	70
68) m/p-Xylenes	10.12	106	4100	1.142	ug/l	79
80) 1,3,5-Trimethylbenzene	11.82	105	14363	2.066	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.82	75	497	1.037	ug/l	92
84) 1,2,4-Trimethylbenzene	12.20	105	75745	10.577	ug/l	94
86) p-Isopropyltoluene	12.43	119	19068	2.377	ug/l	100
89) n-Butylbenzene	12.84	91	29225	3.532	ug/l	83
92) 1,2-Dibromo-3-Chloropropan	13.62	75	428	1.572	ug/l #	1
95) Naphthalene	14.45	128	34082	7.524	ug/l #	63
96) 1,2,3-Trichlorobenzene	14.63	180	4907	2.223	ug/l #	29

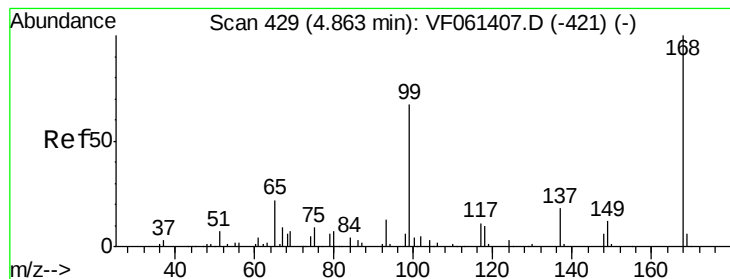
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VF061610.D
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

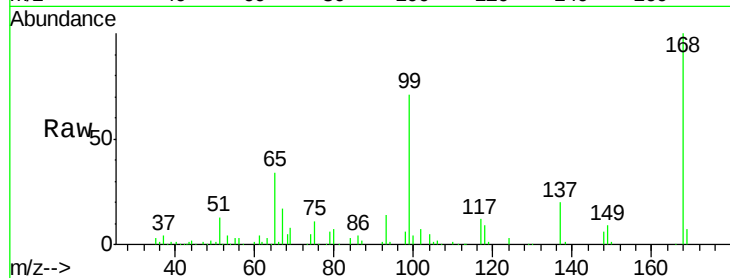
JC-02-021119-D

Tot Ion:168 Resp: 181310

Ion Ratio Lower Upper

168 100

99 71.3 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

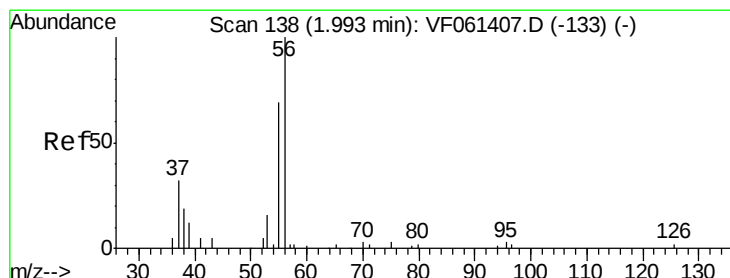
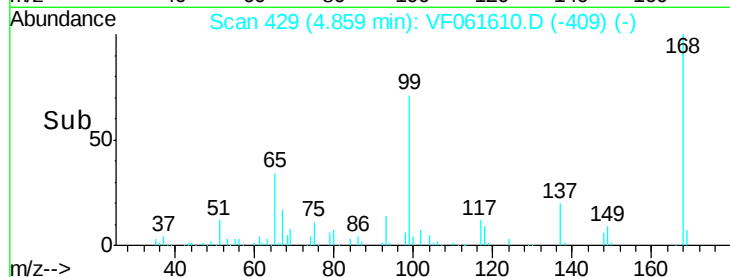
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#13

Acrolein

Concen: 16.527 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061610.D

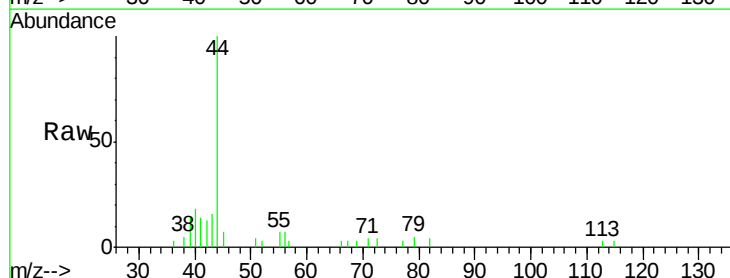
Acq: 12 Feb 2019 15:49

Tgt Ion: 56 Resp: 527

Ion Ratio Lower Upper

56 100

55 105.7 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

500

400

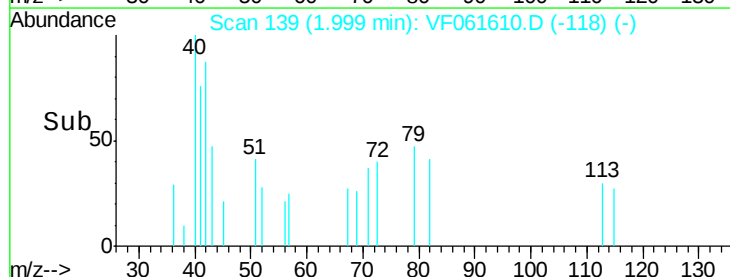
300

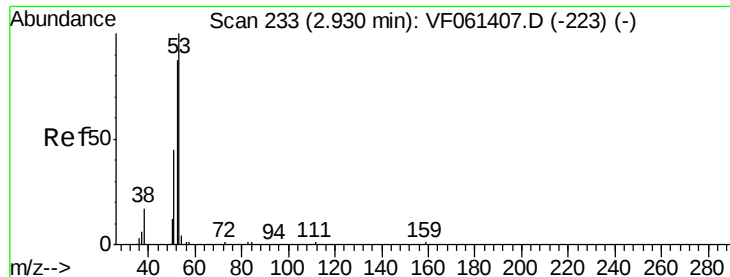
200

100

0

Time--> 1.95 2.00 2.05





#15

Acrylonitrile

Concen: 1.590 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.01 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-D

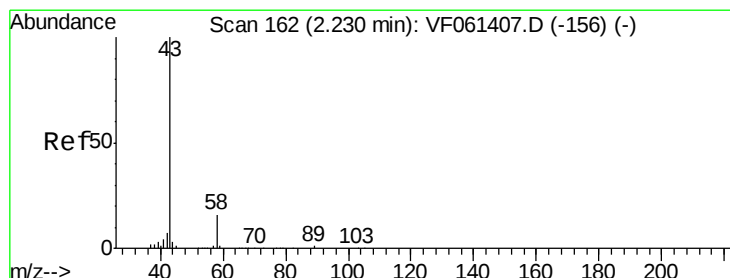
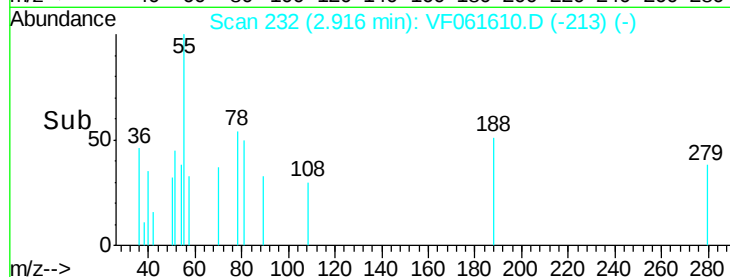
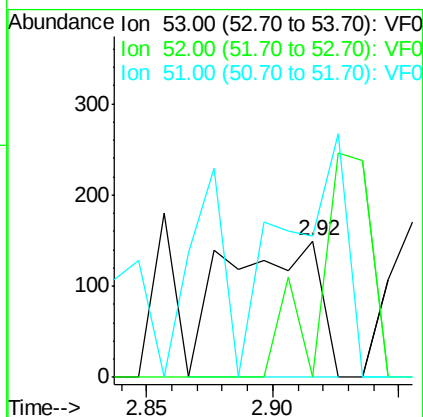
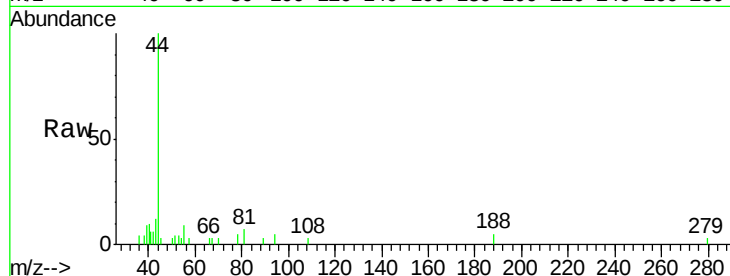
Tot Ion: 53 Resp: 386

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 103.3 36.8 55.2#



#16

Acetone

Concen: 1.323 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.13 min

Lab File: VF061610.D

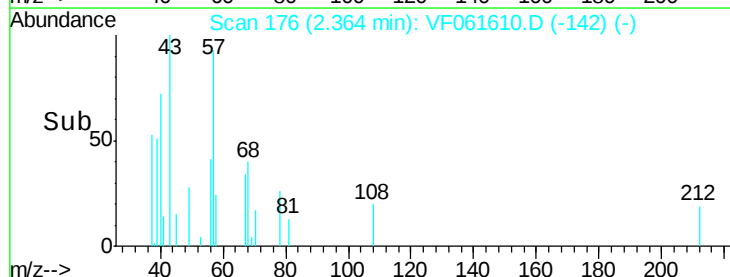
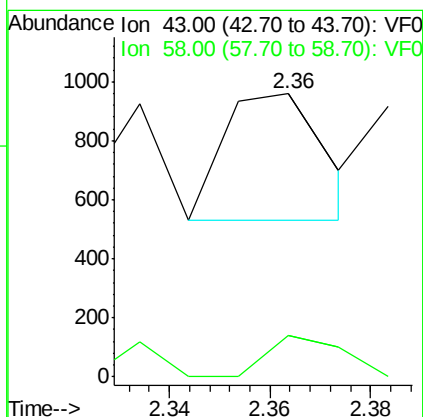
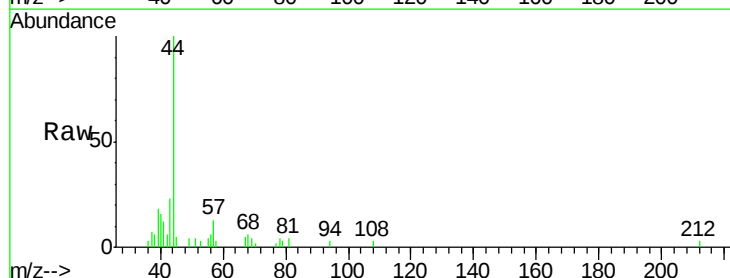
Acq: 12 Feb 2019 15:49

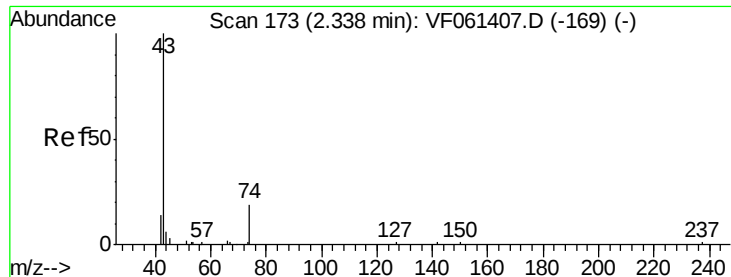
Tgt Ion: 43 Resp: 594

Ion Ratio Lower Upper

43 100

58 14.8 13.3 19.9

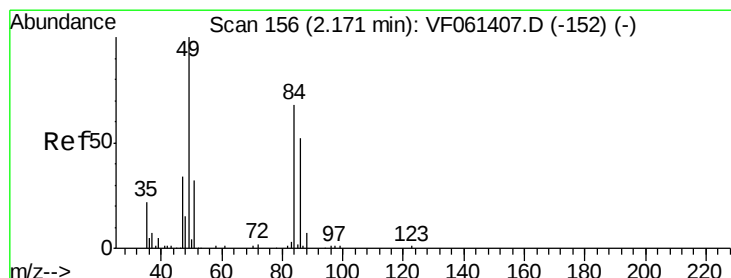
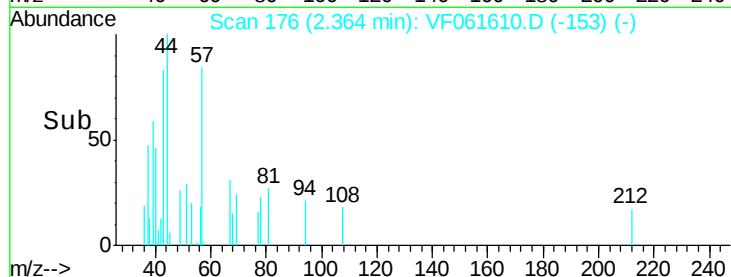
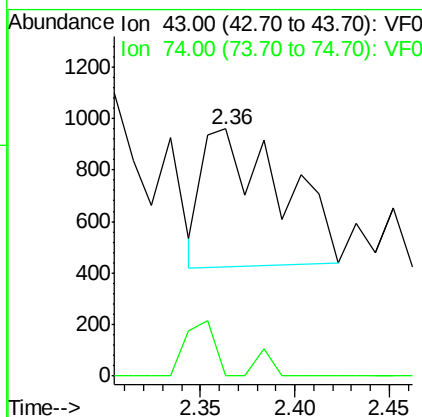
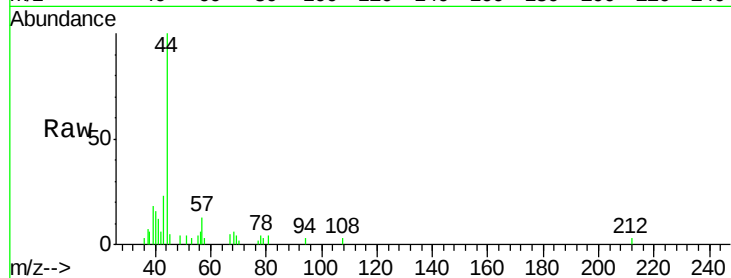




#18
Methyl Acetate
Concen: 1.737 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.03 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

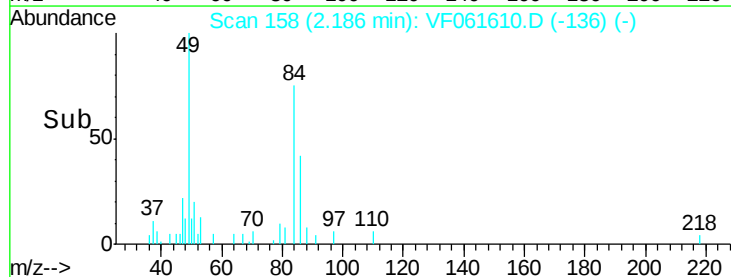
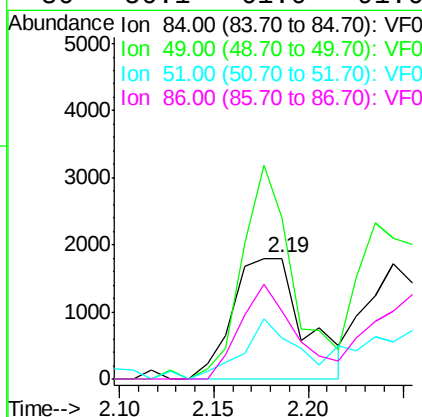
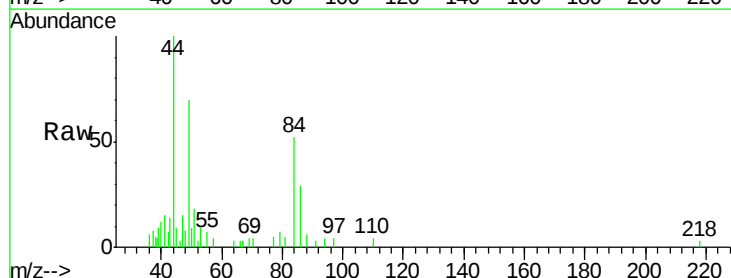
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-D

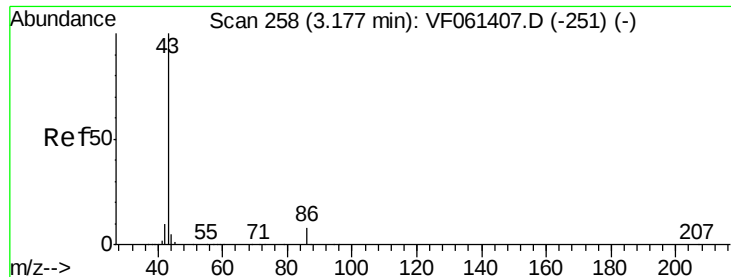
Tot Ion: 43 Resp: 1547
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 1.383 ug/l
RT: 2.19 min Scan# 158
Delta R.T. 0.02 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

Tgt Ion: 84 Resp: 4713
Ion Ratio Lower Upper
84 100
49 134.0 120.0 180.0
51 34.0 38.6 58.0#
86 56.1 61.0 91.6#





#23

Vinyl Acetate

Concen: 3.467 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

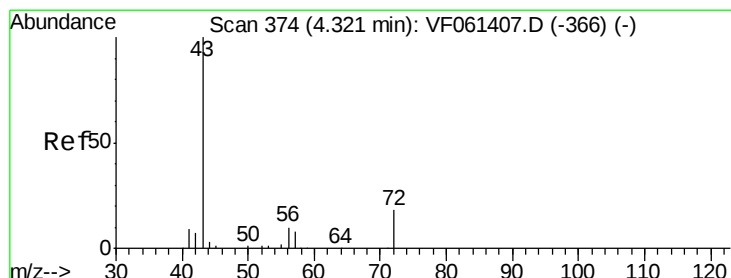
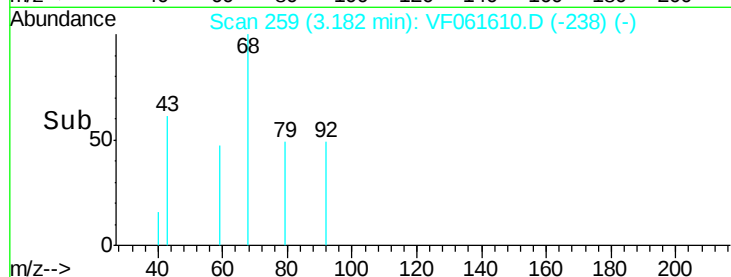
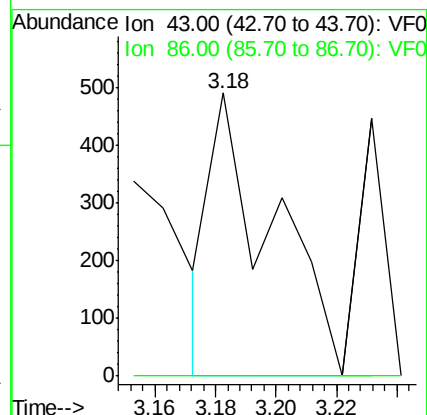
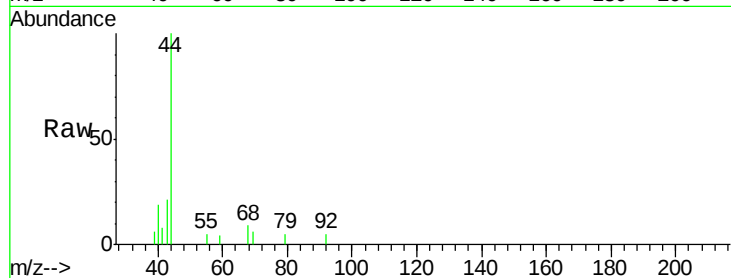
JC-02-021119-D

Tot Ion: 43 Resp: 698

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



#25

2-Butanone

Concen: 3.002 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061610.D

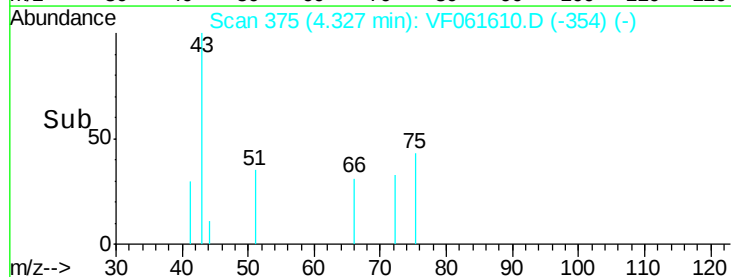
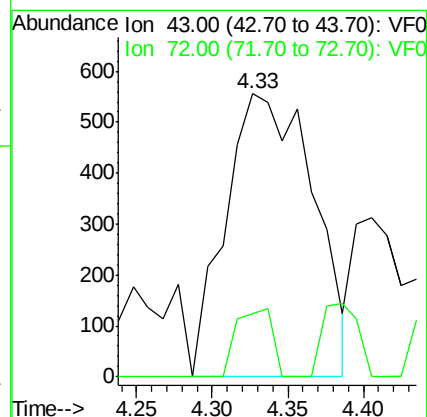
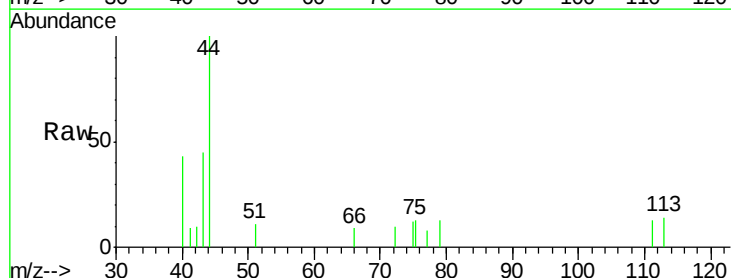
Acq: 12 Feb 2019 15:49

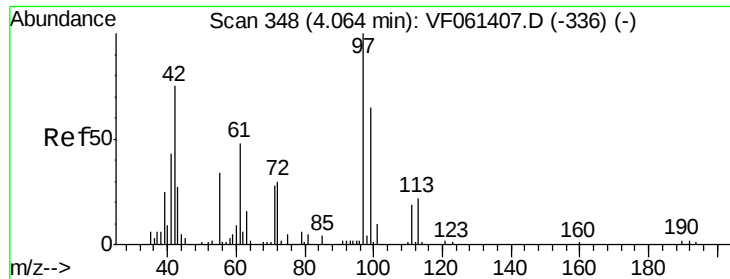
Tgt Ion: 43 Resp: 2242

Ion Ratio Lower Upper

43 100

72 22.5 15.8 23.6





#29

Tetrahydrofuran

Concen: 3.517 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-D

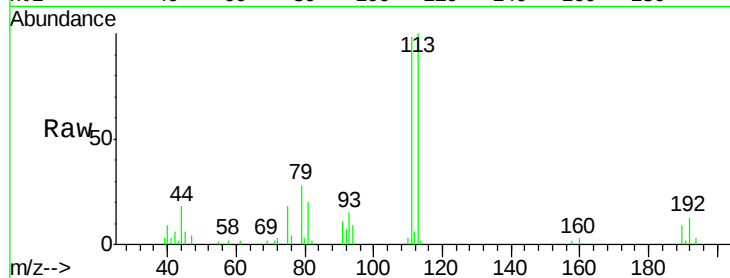
Tot Ion: 42 Resp: 1131

Ion Ratio Lower Upper

42 100

72 28.8 28.9 43.3#

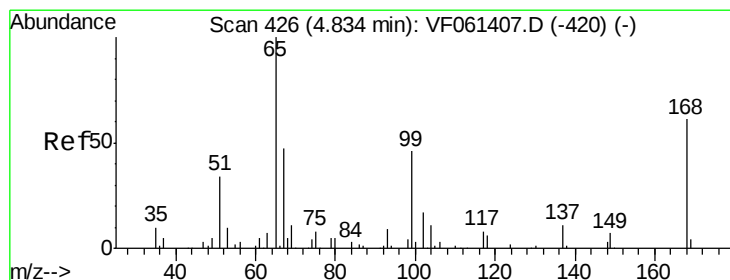
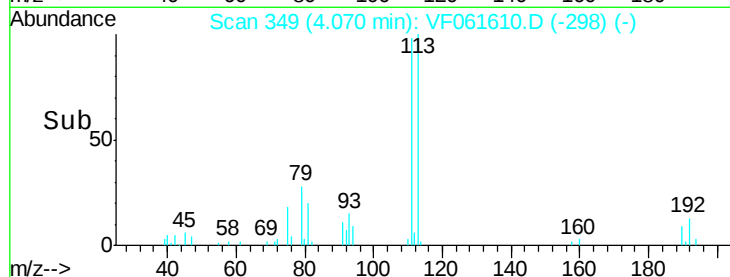
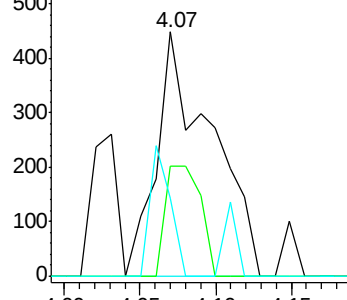
71 20.0 29.6 44.4#



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: 51.323 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061610.D

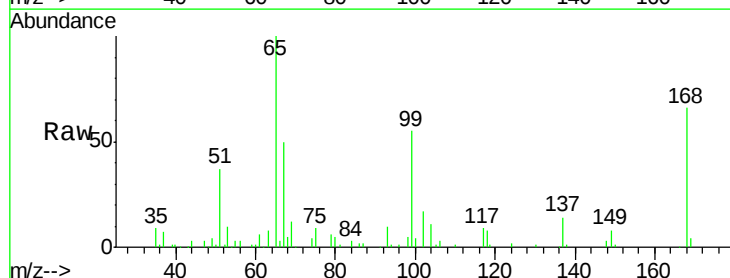
Acq: 12 Feb 2019 15:49

Tgt Ion: 65 Resp: 114886

Ion Ratio Lower Upper

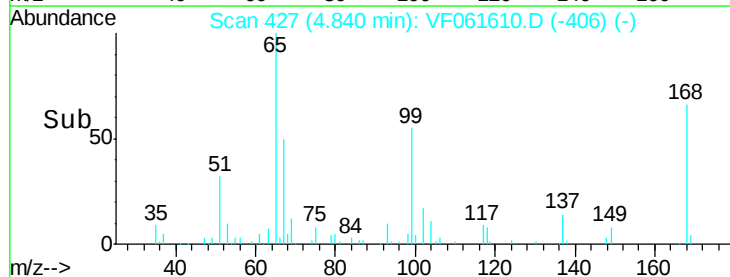
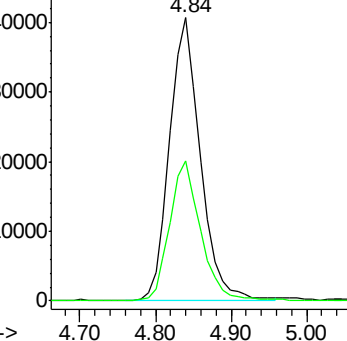
65 100

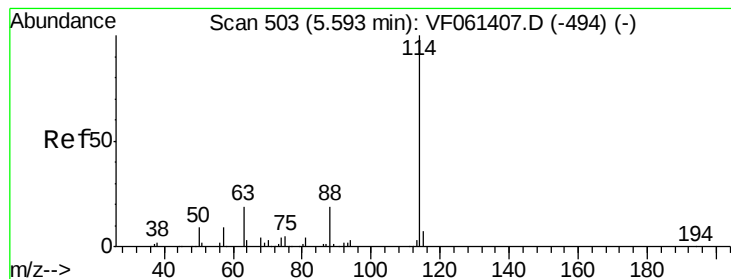
67 49.5 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

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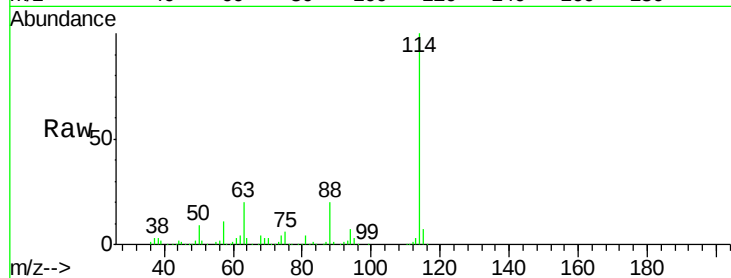
Tot Ion:114 Resp: 333463

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

88 19.9 0.0 37.4



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

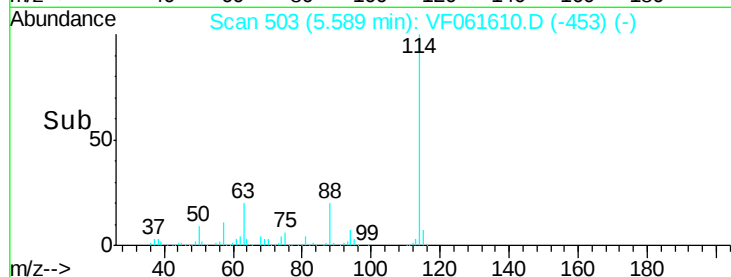
150000

100000

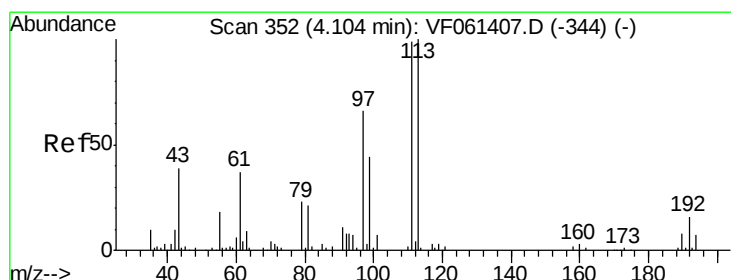
50000

0

5.40 5.50 5.60 5.70 5.80



Time-->



#35

Dibromofluoromethane

Concen: 50.025 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

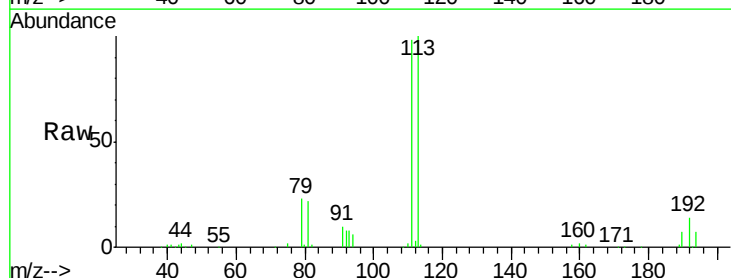
Tgt Ion:113 Resp: 131631

Ion Ratio Lower Upper

113 100

111 98.3 79.4 119.0

192 14.2 12.4 18.6



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

50000

40000

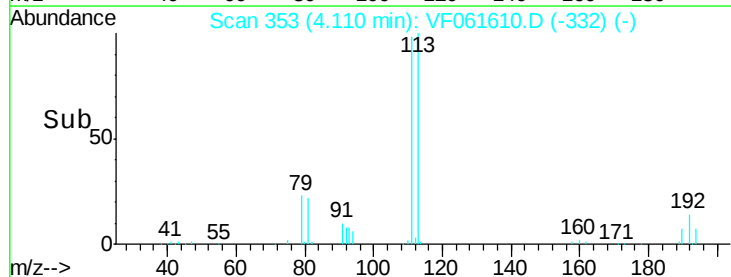
30000

20000

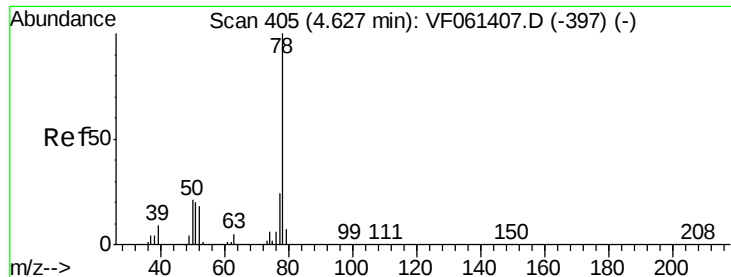
10000

0

4.00 4.10 4.20 4.30



Time-->



#40

Benzene

Concen: 3.812 ug/l

RT: 4.63 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

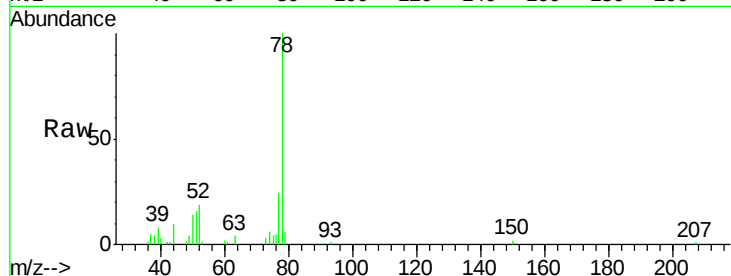
JC-02-021119-D

Tot Ion: 78 Resp: 32797

Ion Ratio Lower Upper

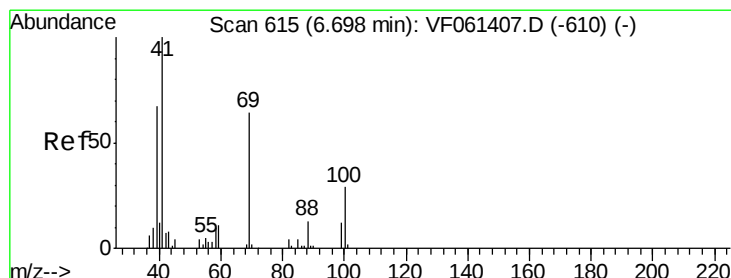
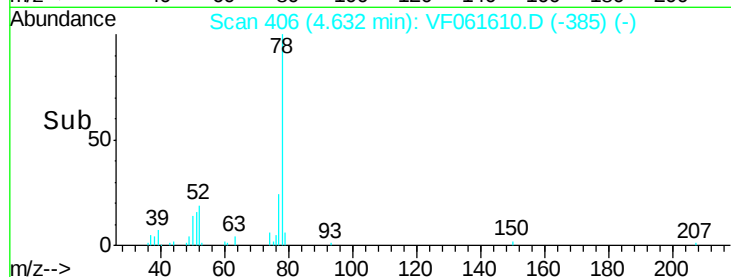
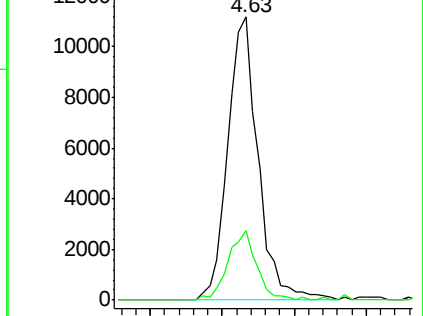
78 100

77 24.5 19.0 28.6



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.77 min Scan# 623

Delta R.T. 0.07 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

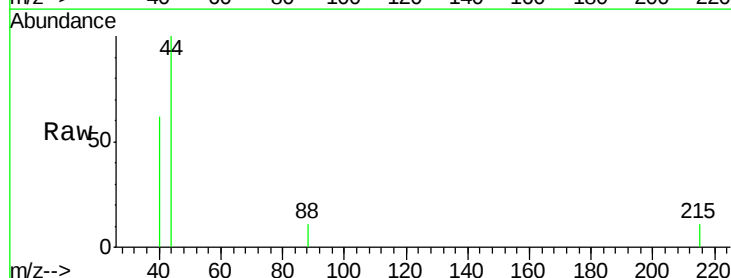
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

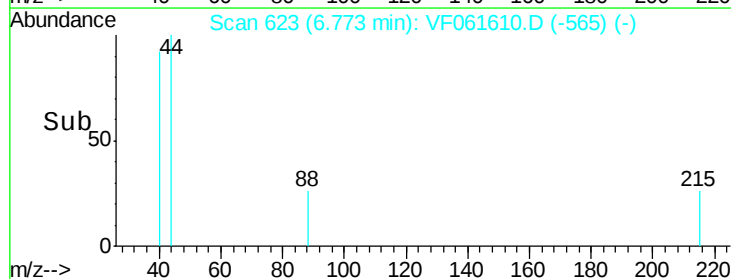
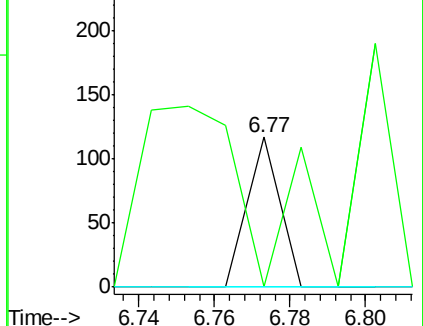
58 0.0 59.9 89.9#

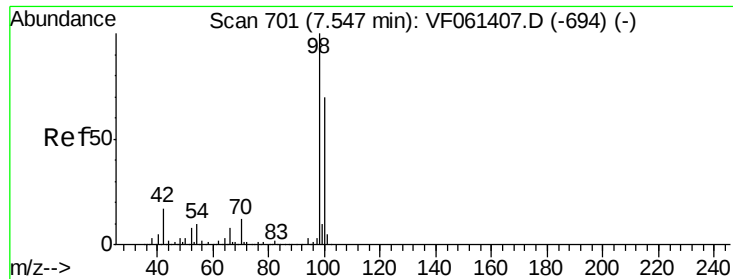


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

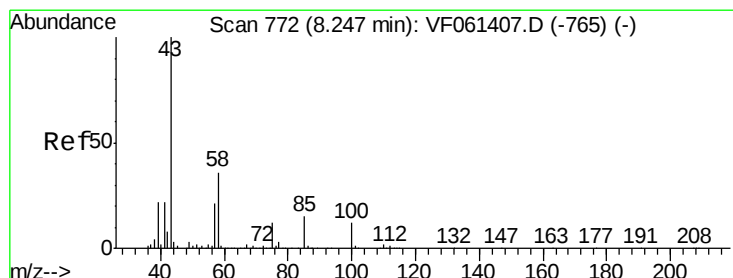
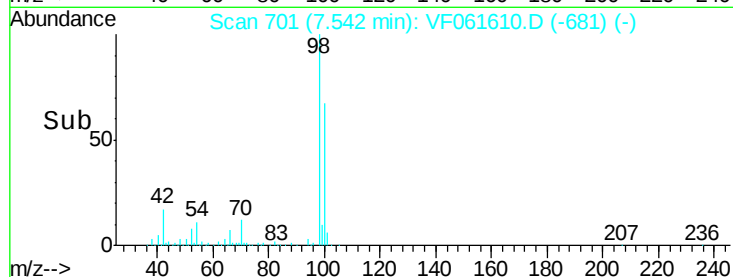
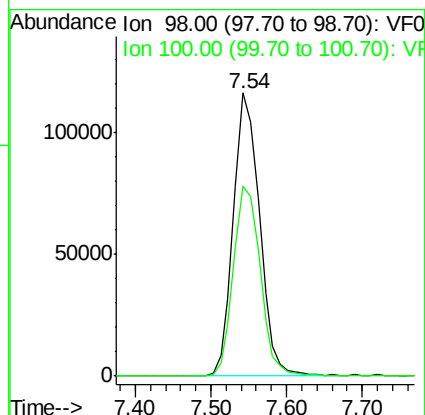
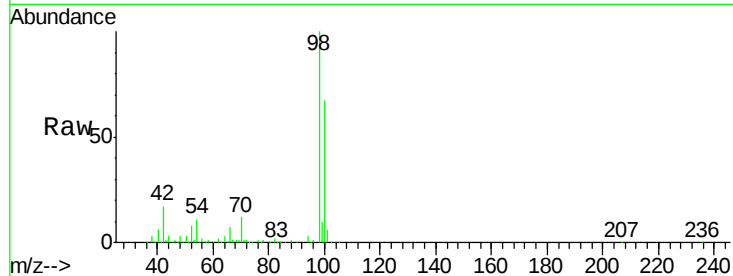




#50
Toluene-d8
Concen: 38.796 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.00 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

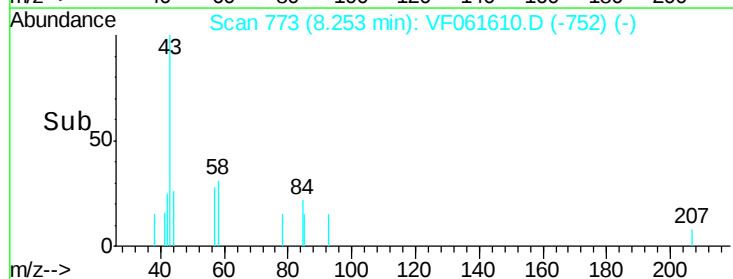
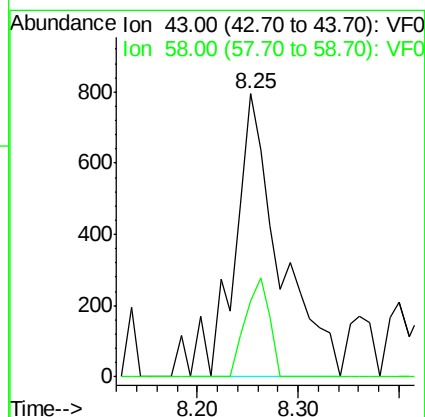
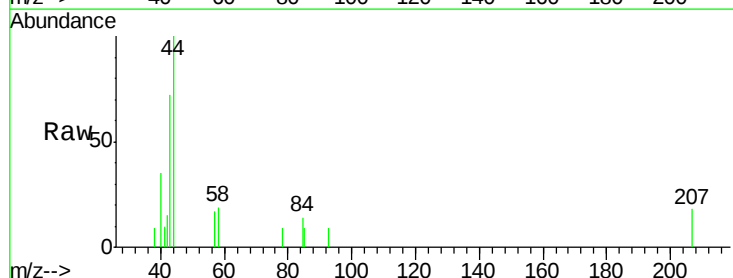
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-D

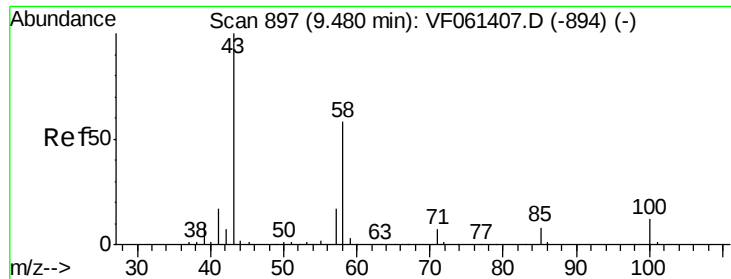
Tot Ion: 98 Resp: 279696
Ion Ratio Lower Upper
98 100
100 67.2 55.6 83.4



#51
4-Methyl-2-Pentanone
Concen: 1.743 ug/l
RT: 8.25 min Scan# 773
Delta R.T. 0.01 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

Tgt Ion: 43 Resp: 2486
Ion Ratio Lower Upper
43 100
58 26.7 28.8 43.2#

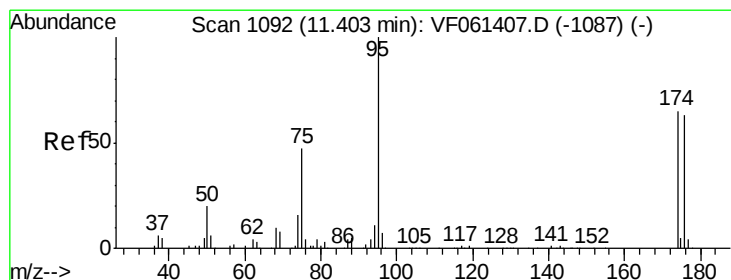
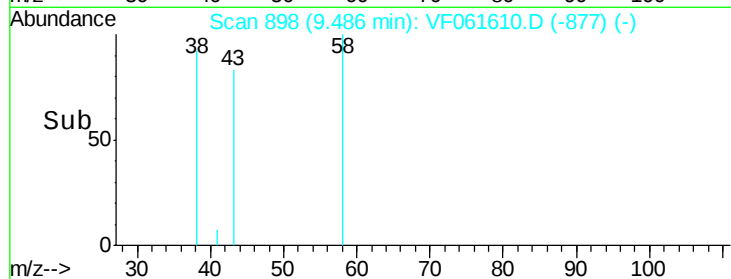
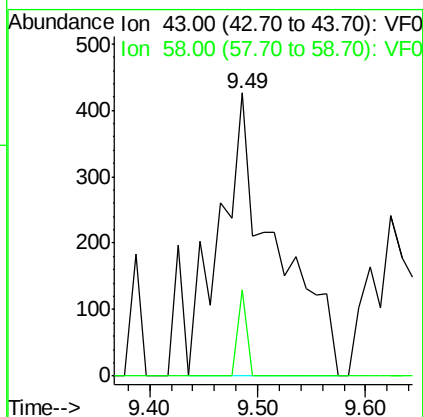
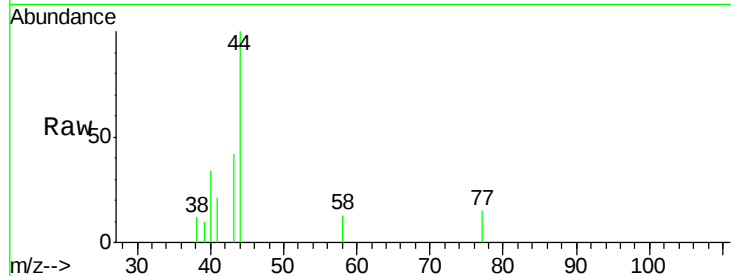




#59
2-Hexanone
Concen: 1.536 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.01 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

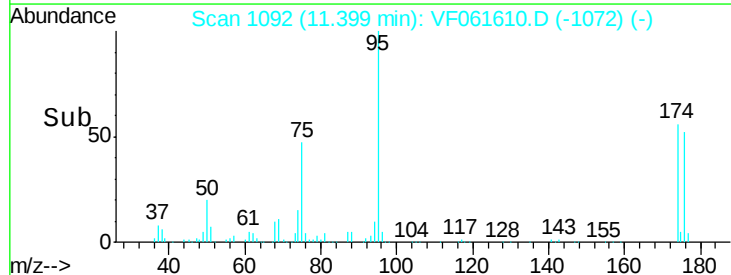
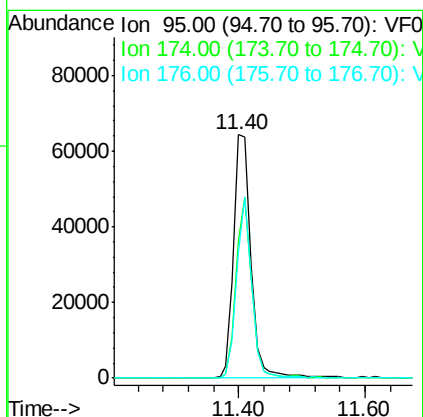
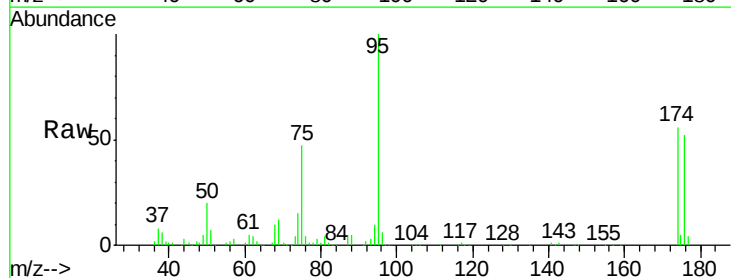
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-D

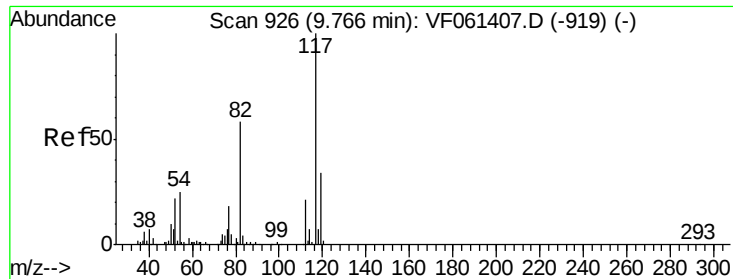
Tot Ion: 43 Resp: 1527
Ion Ratio Lower Upper
43 100
58 30.5 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 36.214 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

Tgt Ion: 95 Resp: 121982
Ion Ratio Lower Upper
95 100
174 56.2 0.0 130.4
176 51.6 0.0 126.2

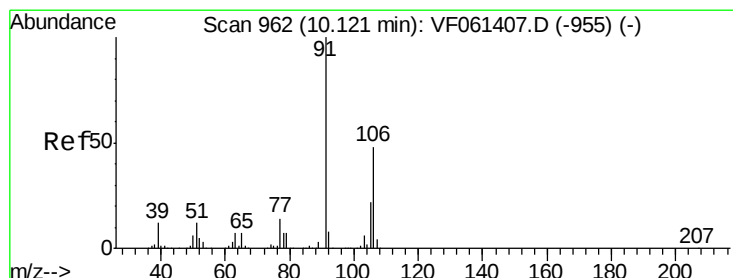
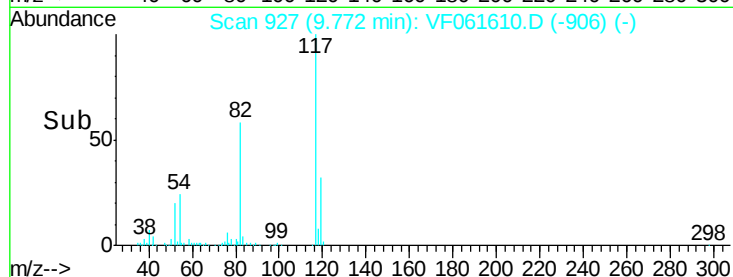
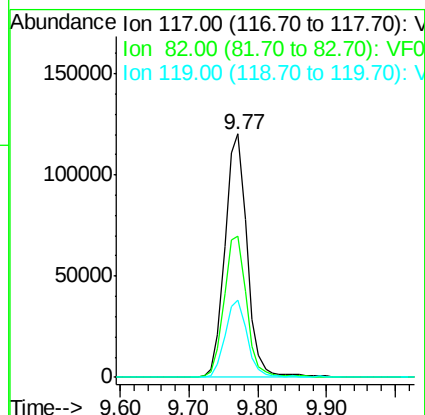
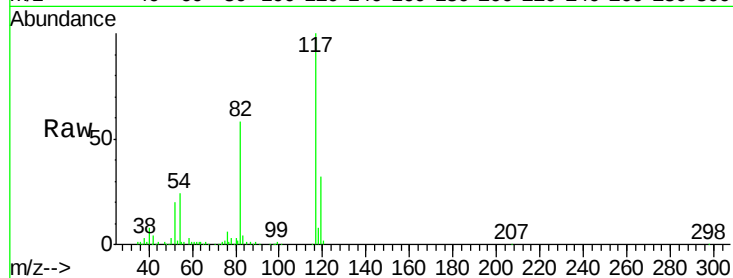




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

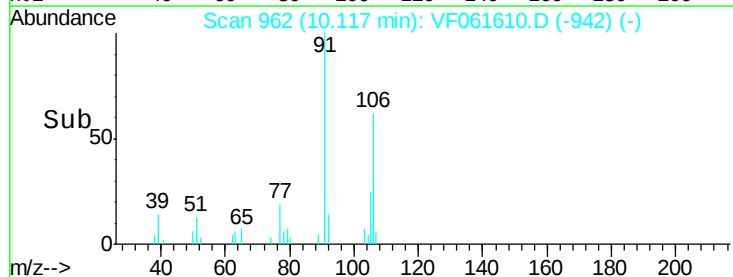
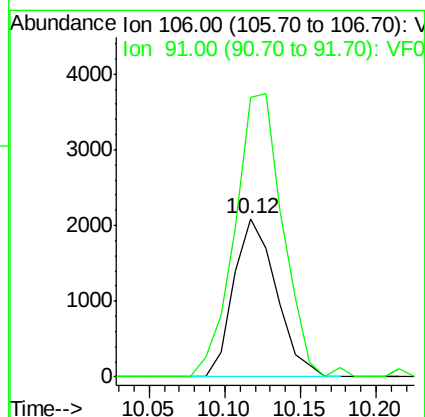
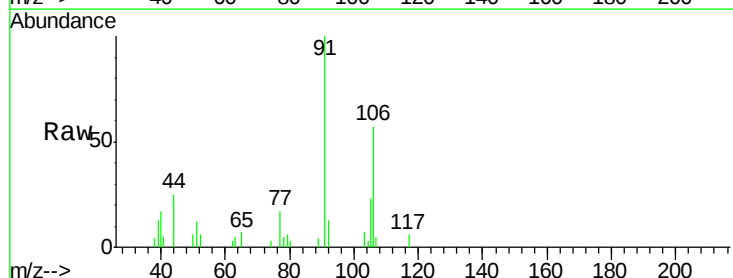
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-D

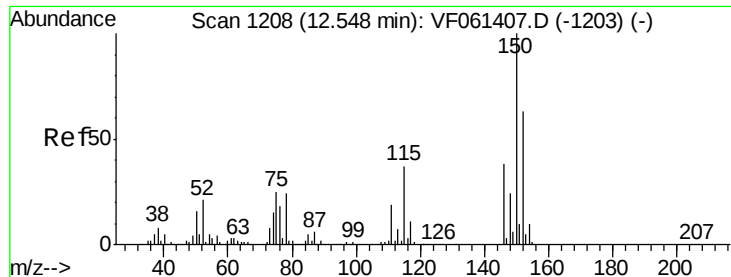
Tot Ion:117 Resp: 268551
Ion Ratio Lower Upper
117 100
82 58.1 46.4 69.6
119 31.9 27.2 40.8



#68
m/p-Xylenes
Concen: 1.142 ug/l
RT: 10.12 min Scan# 962
Delta R.T. -0.00 min
Lab File: VF061610.D
Acq: 12 Feb 2019 15:49

Tgt Ion:106 Resp: 4100
Ion Ratio Lower Upper
106 100
91 176.0 166.2 249.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-D

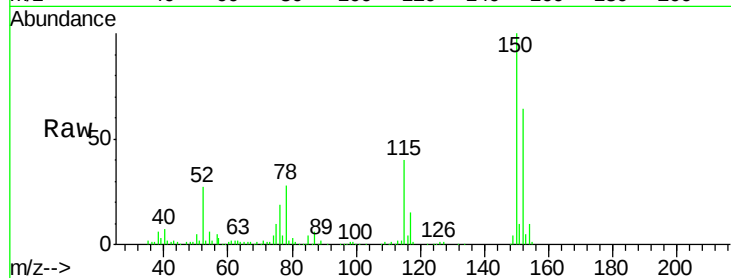
Tot Ion:152 Resp: 105927

Ion Ratio Lower Upper

152 100

115 62.1 30.0 90.0

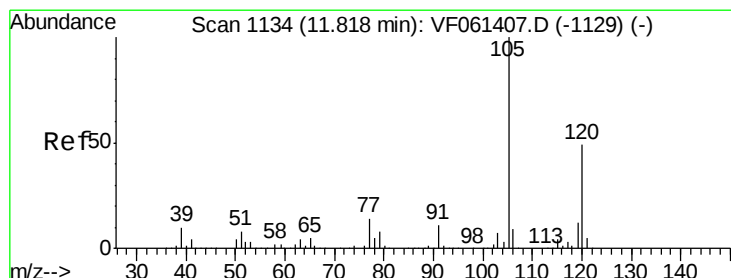
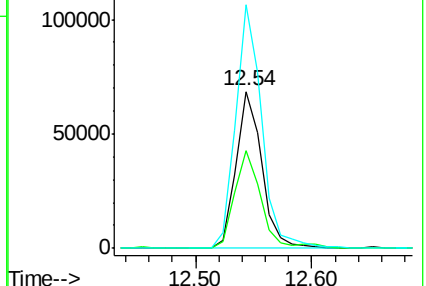
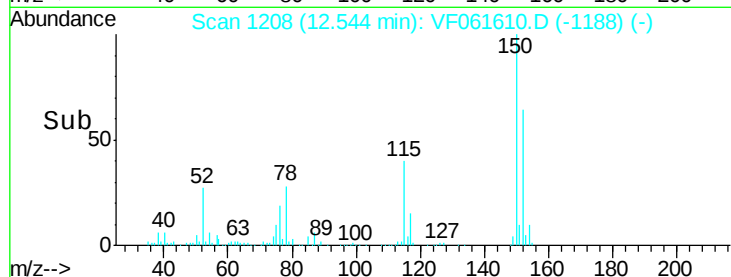
150 155.5 0.0 321.4



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



#80

1,3,5-Trimethylbenzene

Concen: 2.066 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VF061610.D

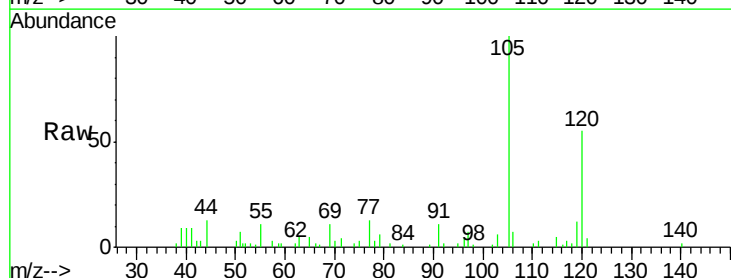
Acq: 12 Feb 2019 15:49

Tgt Ion:105 Resp: 14363

Ion Ratio Lower Upper

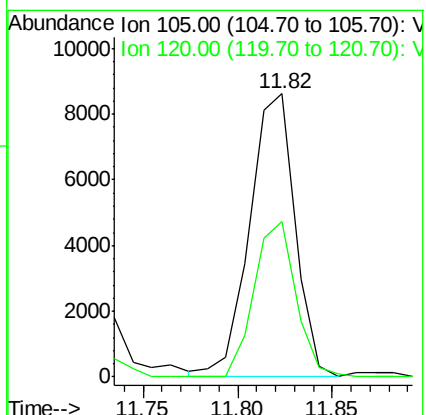
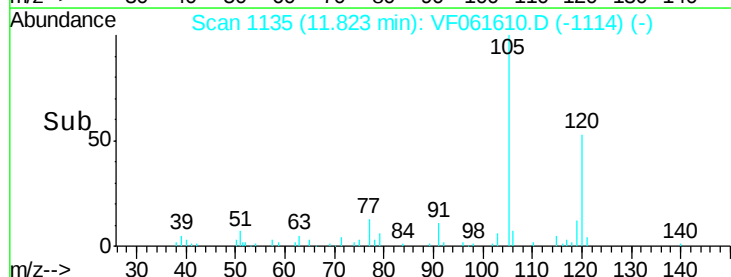
105 100

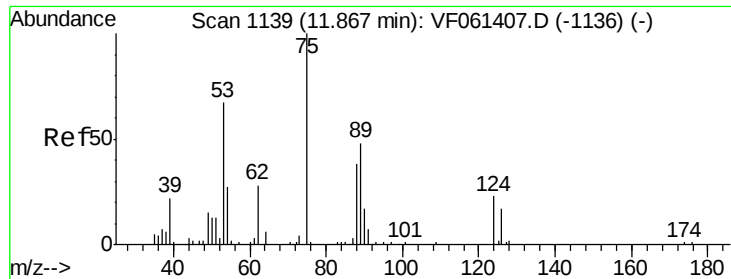
120 54.8 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.037 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.04 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-D

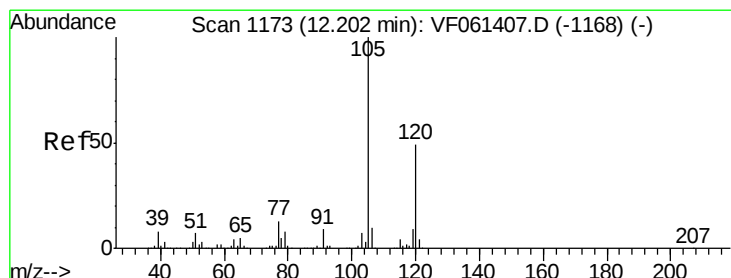
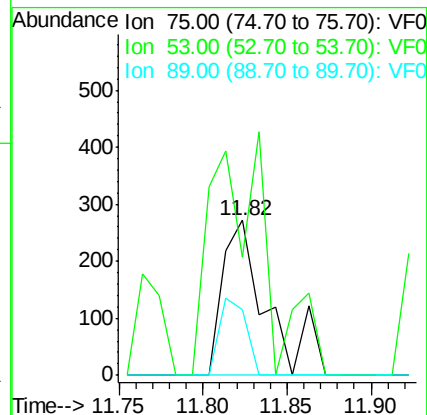
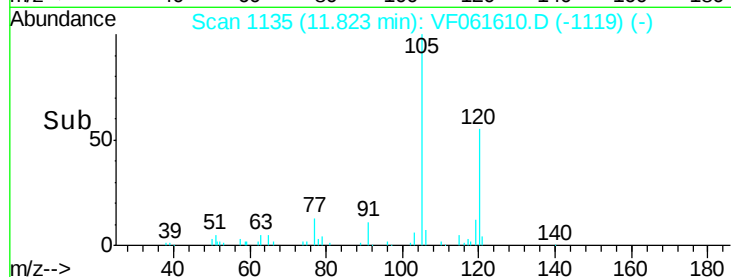
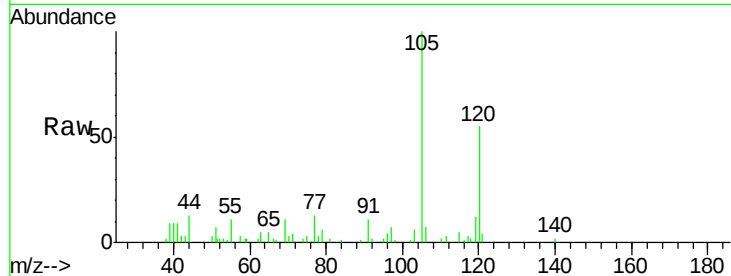
Tot Ion: 75 Resp: 497

Ion Ratio Lower Upper

75 100

53 76.1 57.8 86.6

89 41.9 40.7 61.1



#84

1,2,4-Trimethylbenzene

Concen: 10.577 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VF061610.D

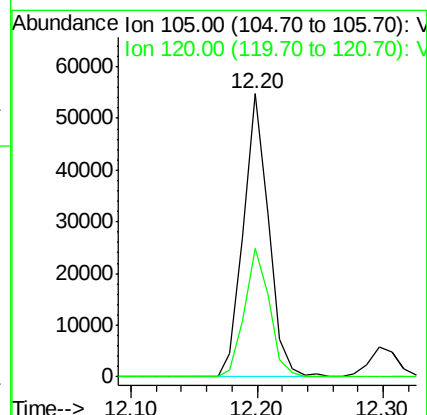
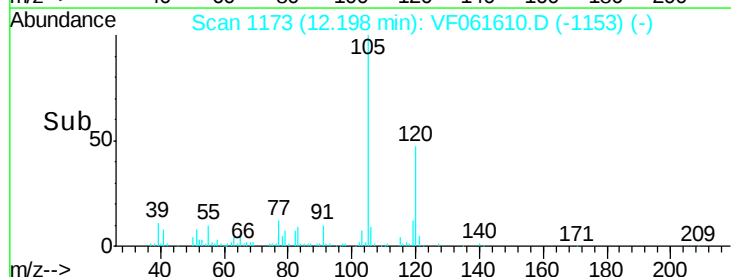
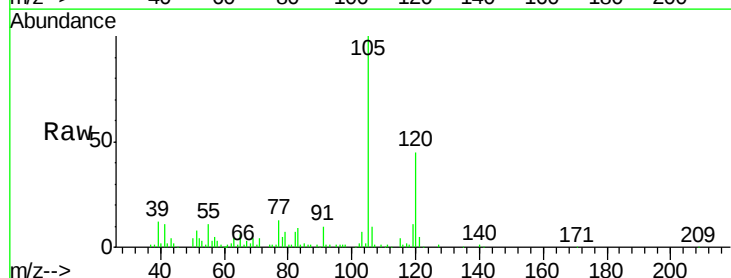
Acq: 12 Feb 2019 15:49

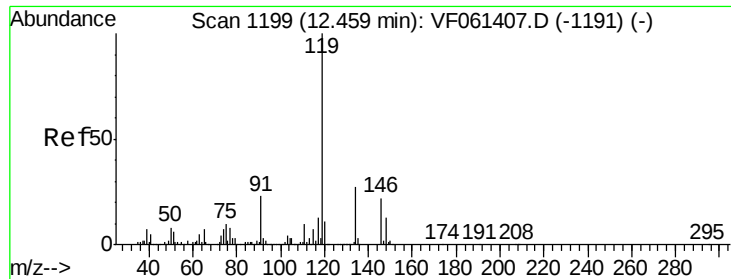
Tgt Ion: 105 Resp: 75745

Ion Ratio Lower Upper

105 100

120 45.4 24.9 74.6

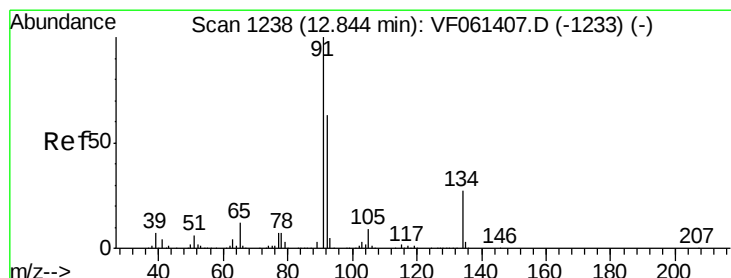
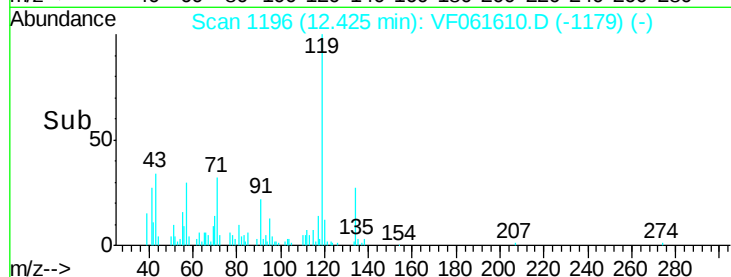
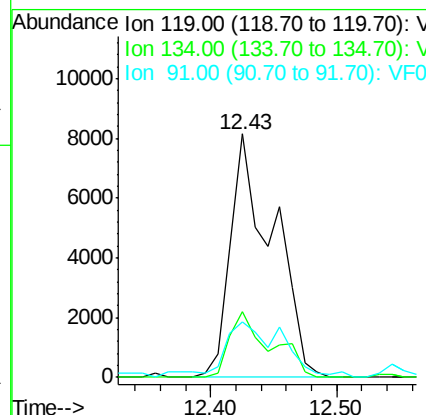
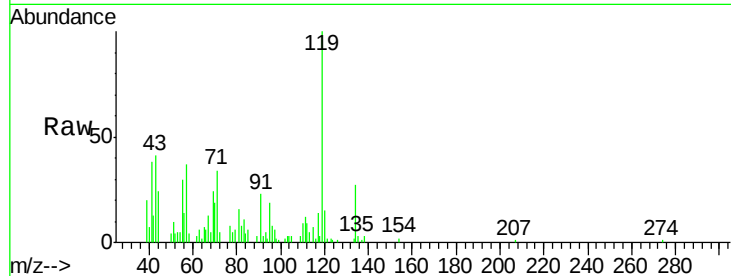




#86
 p-Isopropyltoluene
 Concen: 2.377 ug/l
 RT: 12.43 min Scan# 1196
 Delta R.T. -0.03 min
 Lab File: VF061610.D
 Acq: 12 Feb 2019 15:49

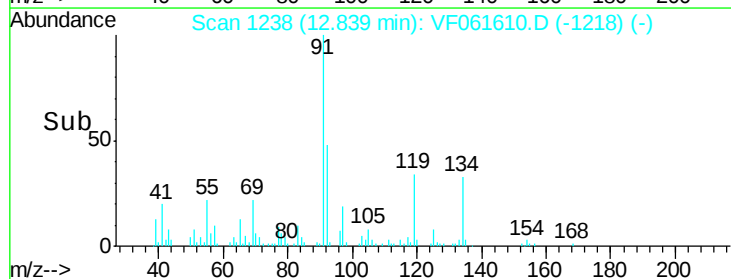
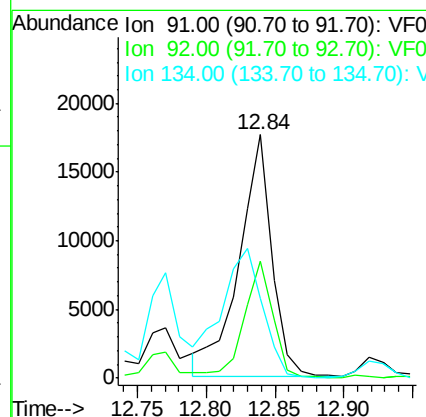
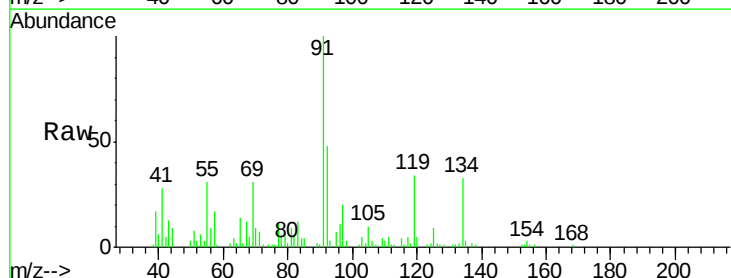
Instrument :
 MSVOA_F
 ClientSampleID :
 JC-02-021119-D

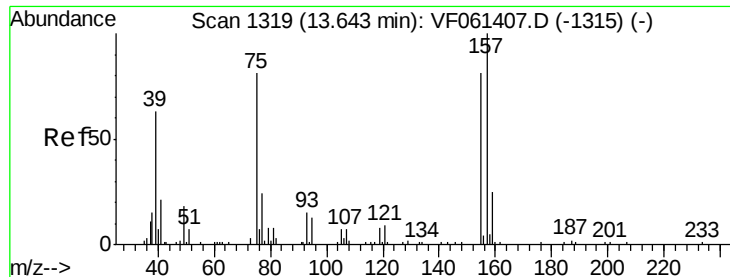
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.2	13.4	40.2
91	22.9	11.4	34.2



#89
 n-Butylbenzene
 Concen: 3.532 ug/l
 RT: 12.84 min Scan# 1238
 Delta R.T. -0.00 min
 Lab File: VF061610.D
 Acq: 12 Feb 2019 15:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	47.9	31.6	94.7
134	32.6	13.6	40.8





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.572 ug/l

RT: 13.62 min Scan# 1317

Delta R.T. -0.02 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-D

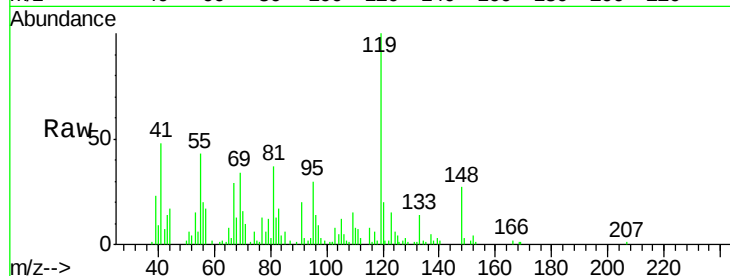
Tot Ion: 75 Resp: 428

Ion Ratio Lower Upper

75 100

155 0.0 49.7 149.1#

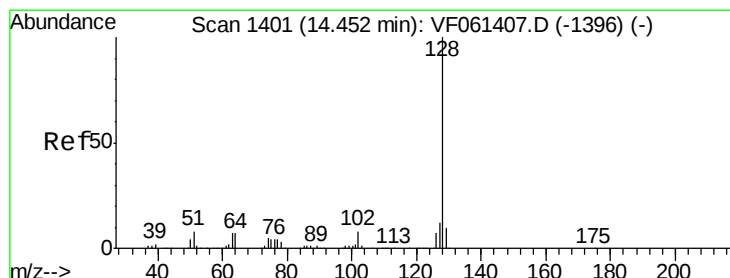
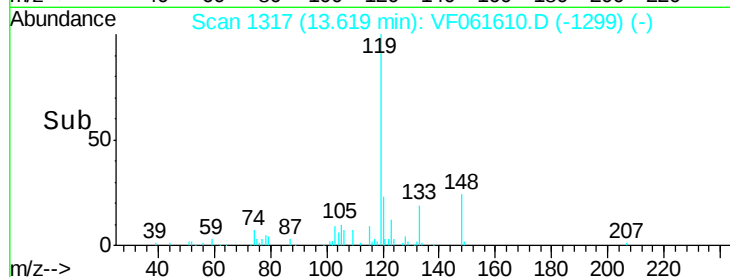
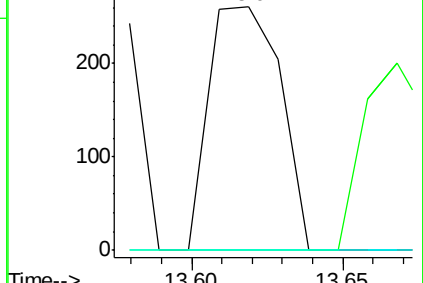
157 0.0 61.4 184.1#



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



#95

Naphthalene

Concen: 7.524 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061610.D

Acq: 12 Feb 2019 15:49

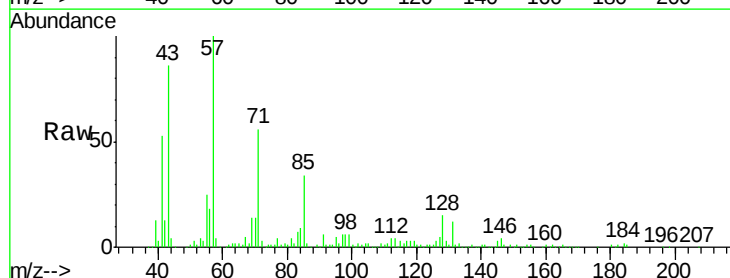
Tgt Ion: 128 Resp: 34082

Ion Ratio Lower Upper

128 100

127 31.2 9.5 14.3#

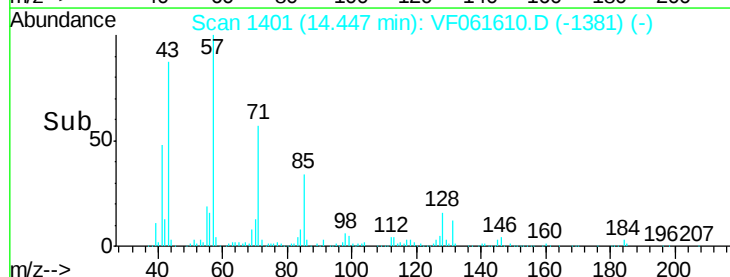
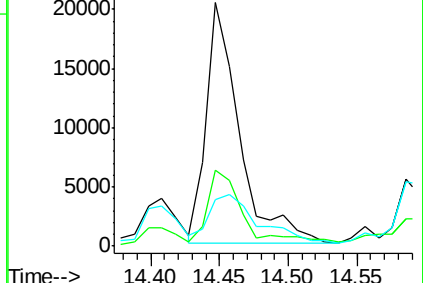
129 19.1 8.4 12.6#

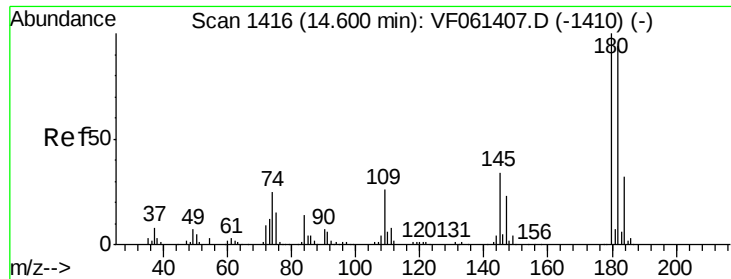


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.223 ug/l
 RT: 14.63 min Scan# 1420
 Delta R.T. 0.04 min
 Lab File: VF061610.D
 Acq: 12 Feb 2019 15:49

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-D

Tot Ion:180 Resp: 4907
 Ion Ratio Lower Upper
 180 100
 182 33.1 47.0 141.2#
 145 86.7 17.1 51.2#

