

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
 Data File : VF060878.D
 Acq On : 29 Nov 2018 20:39
 Operator : VA/AP
 Sample : J5765-05RE
 Misc : 8.7a/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 NB-07-112918RE

Quant Time: Nov 30 06:00:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	180243	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.60	114	321314	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.79	117	256030	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.56	152	97396	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	103860	48.91	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	4.12	113	116460	45.69	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	91.38%	
50) Toluene-d8	7.57	98	265717	35.39	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	70.78%	
62) 4-Bromofluorobenzene	11.41	95	113825	33.35	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	66.70%	

Target Compounds

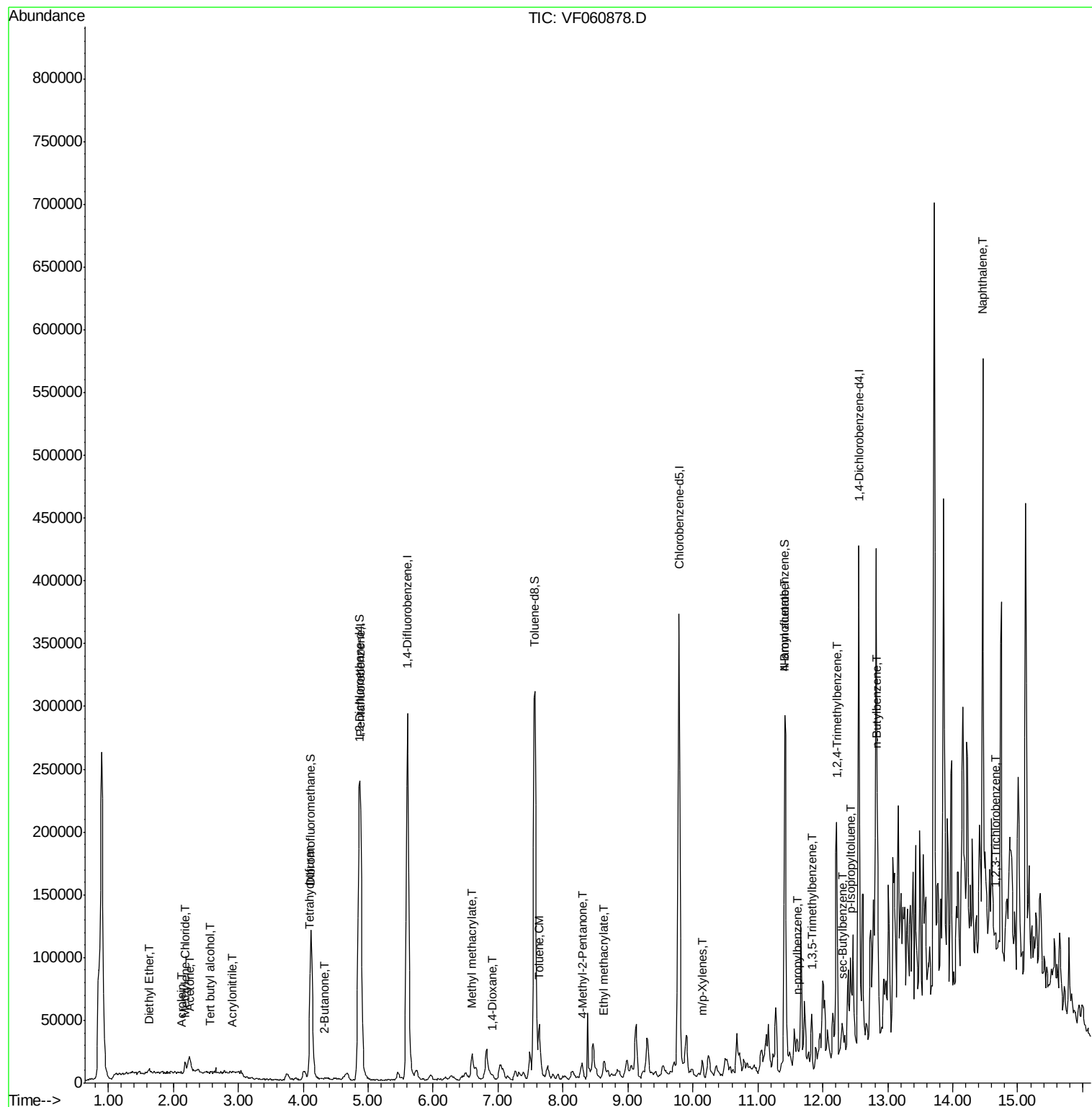
						Qvalue
8) Diethyl Ether	1.63	74	1107	2.193	ug/l	90
11) Tert butyl alcohol	2.58	59	320	3.676	ug/l #	62
13) Acrolein	2.13	56	512	6.208	ug/l	83
15) Acrylonitrile	2.92	53	441	2.260	ug/l #	50
16) Acetone	2.25	43	15150	38.692	ug/l	100
18) Methyl Acetate	2.48	43	449	Below Cal		99
20) Methylene Chloride	2.18	84	3301	2.298	ug/l	93
25) 2-Butanone	4.34	43	1708	2.522	ug/l #	57
29) Tetrahydrofuran	4.09	42	468	1.630	ug/l #	73
41) Methacrylonitrile	4.81	41	345	Below Cal	#	1
43) Isopropyl Acetate	7.03	43	1221	Below Cal	#	49
48) Methyl methacrylate	6.61	41	9523	7.264	ug/l #	46
49) 1,4-Dioxane	6.93	88	76	7.921	ug/l #	1
51) 4-Methyl-2-Pentanone	8.30	43	7655	5.732	ug/l #	49
52) Toluene	7.64	92	20952	3.789	ug/l	88
56) Ethyl methacrylate	8.63	69	8522	4.760	ug/l #	82
68) m/p-Xylenes	10.14	106	3792	1.137	ug/l	85
74) N-amyl acetate	11.42	43	2897	1.630	ug/l #	1
78) n-propylbenzene	11.60	91	10188	1.130	ug/l	93
80) 1,3,5-Trimethylbenzene	11.83	105	15755	2.521	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	72616	11.645	ug/l	96
85) sec-Butylbenzene	12.31	105	11911	1.367	ug/l #	77
86) p-Isopropyltoluene	12.44	119	19156	2.622	ug/l	96
89) n-Butylbenzene	12.84	91	35301	4.779	ug/l #	74
95) Naphthalene	14.46	128	24650	2.668	ug/l #	55
96) 1,2,3-Trichlorobenzene	14.65	180	2492	1.264	ug/l #	6

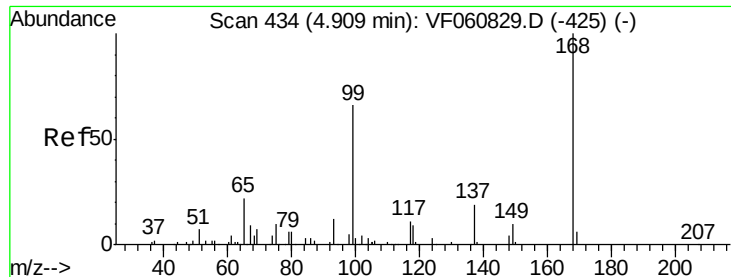
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

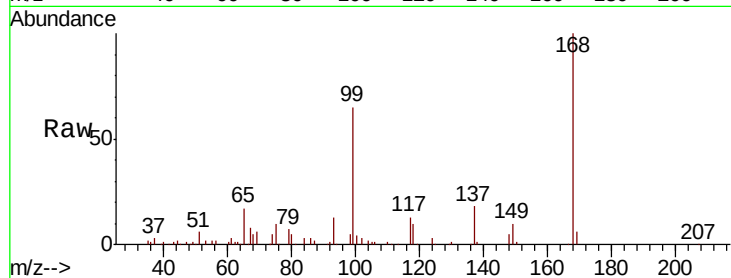
NB-07-112918RE

Tot Ion:168 Resp: 180243

Ion Ratio Lower Upper

168 100

99 64.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

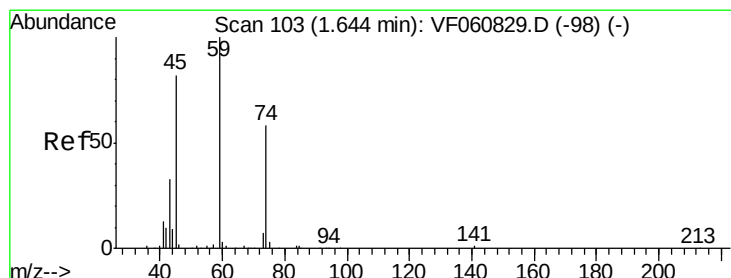
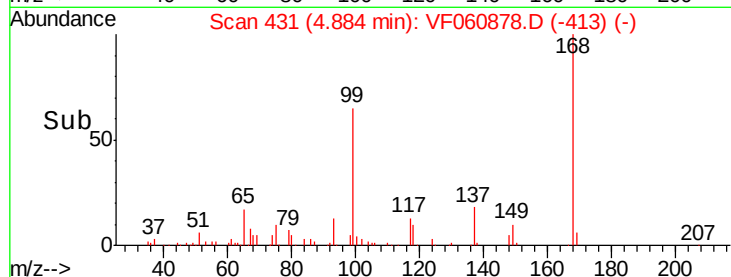
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 2.193 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF060878.D

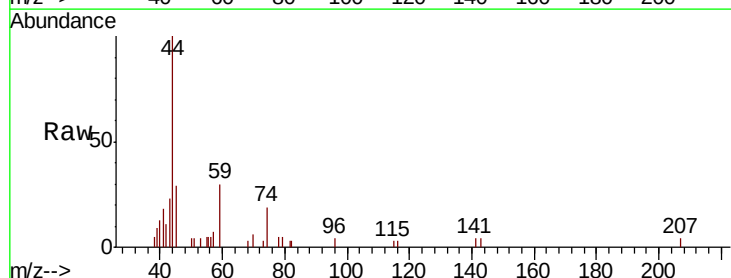
Acq: 29 Nov 2018 20:39

Tgt Ion: 74 Resp: 1107

Ion Ratio Lower Upper

74 100

45 154.7 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.63

1000

800

600

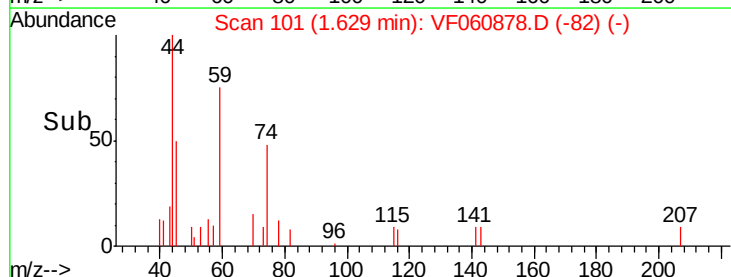
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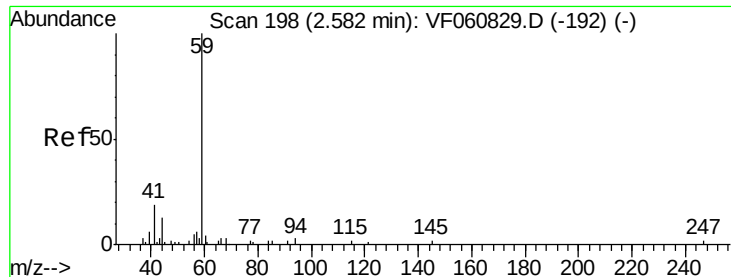
200

0

Time-->

1.60 1.65



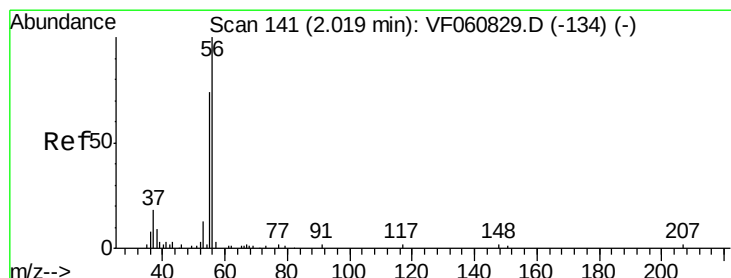
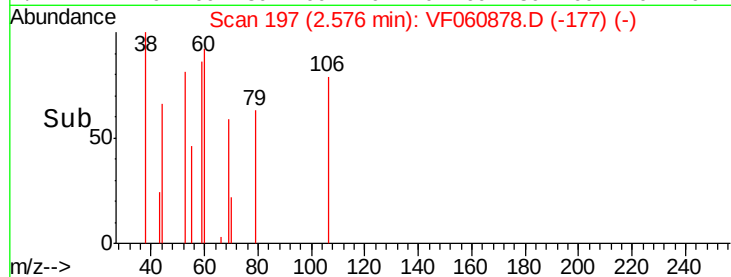
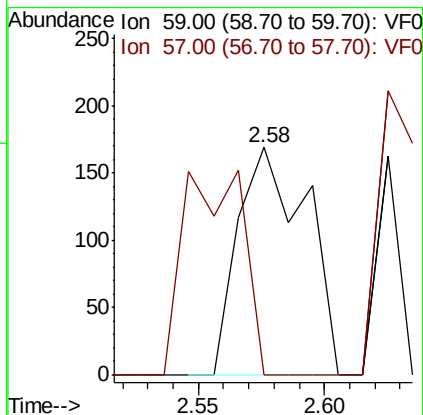
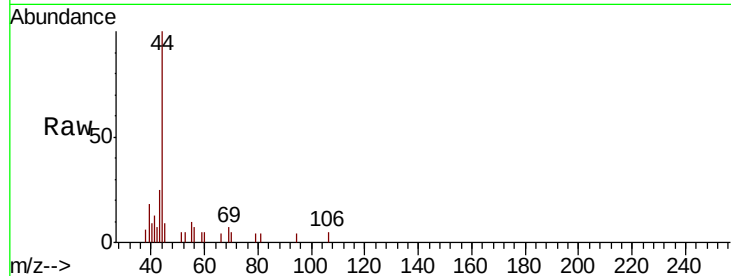


#11

Tert butyl alcohol
 Concen: 3.676 ug/l
 RT: 2.58 min Scan# 197
 Delta R.T. -0.01 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

Instrument :
 MSVOA_F
 ClientSampleId :
 NB-07-112918RE

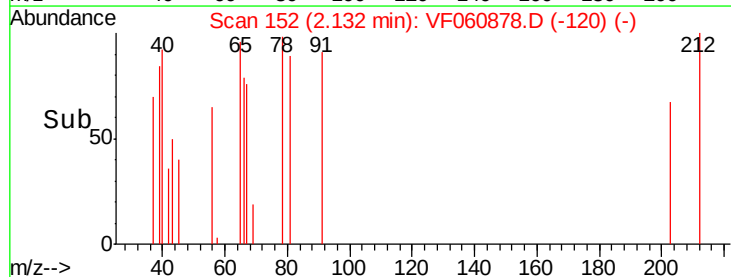
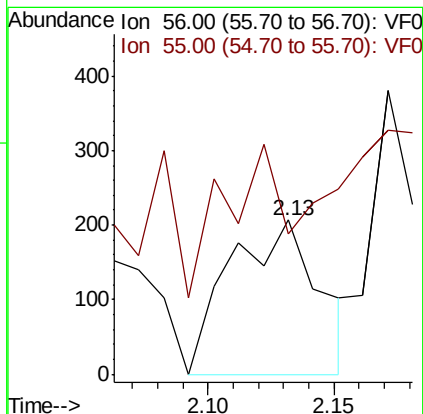
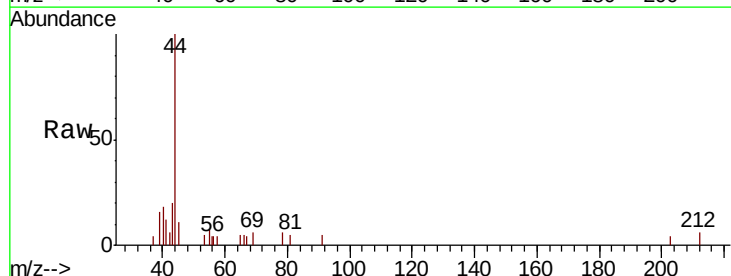
Tot Ion: 59 Resp: 320
 Ion Ratio Lower Upper
 59 100
 57 0.0 12.7 19.1#

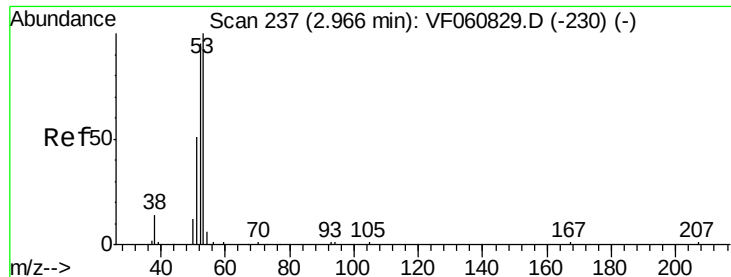


#13

Acrolein
 Concen: 6.208 ug/l
 RT: 2.13 min Scan# 152
 Delta R.T. 0.11 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

Tgt Ion: 56 Resp: 512
 Ion Ratio Lower Upper
 56 100
 55 91.3 61.2 91.8





#15

Acrylonitrile

Concen: 2.260 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.05 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

NB-07-112918RE

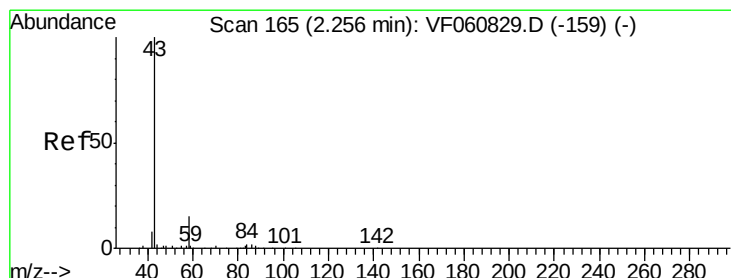
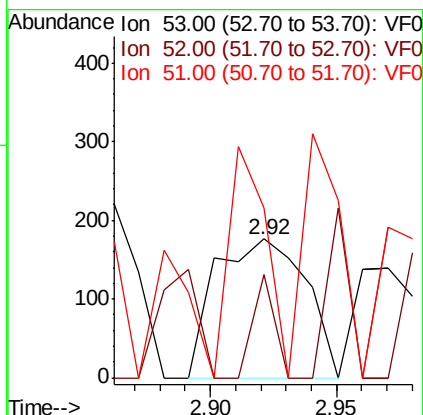
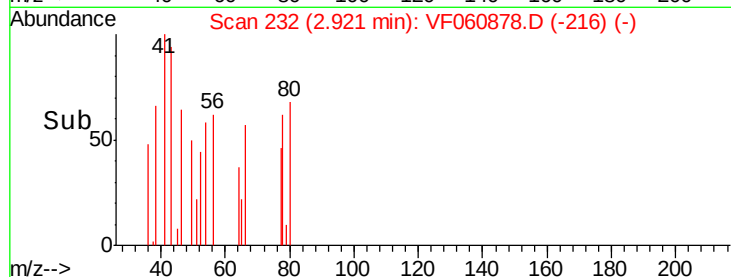
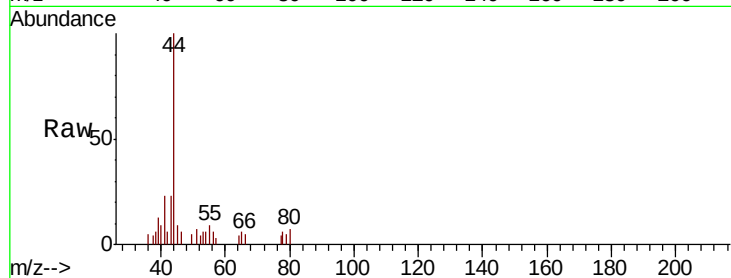
Tot Ion: 53 Resp: 441

Ion Ratio Lower Upper

53 100

52 74.4 76.5 114.7#

51 122.2 40.7 61.1#



#16

Acetone

Concen: 38.692 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060878.D

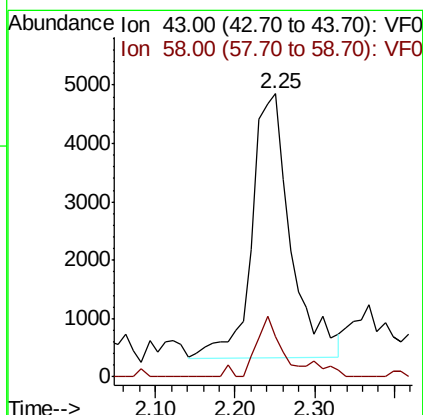
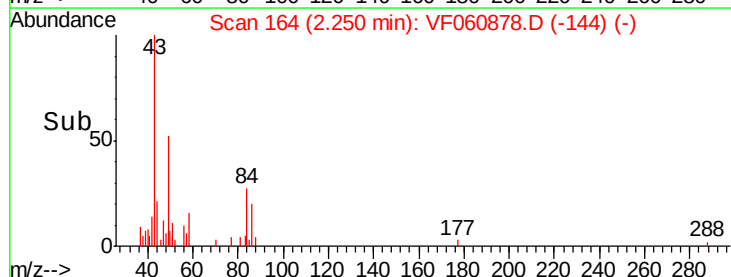
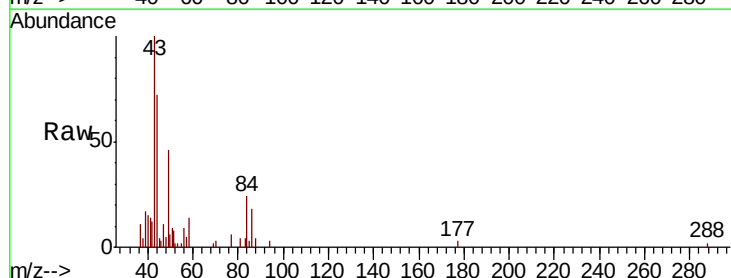
Acq: 29 Nov 2018 20:39

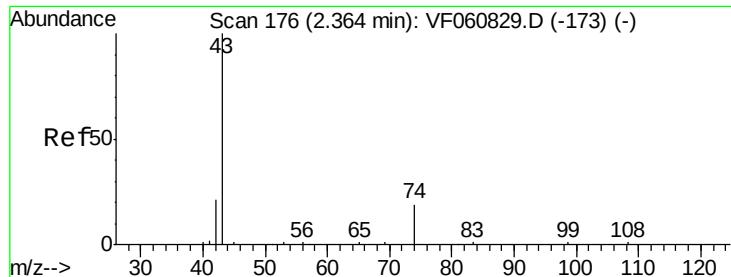
Tgt Ion: 43 Resp: 15150

Ion Ratio Lower Upper

43 100

58 14.4 11.4 17.2

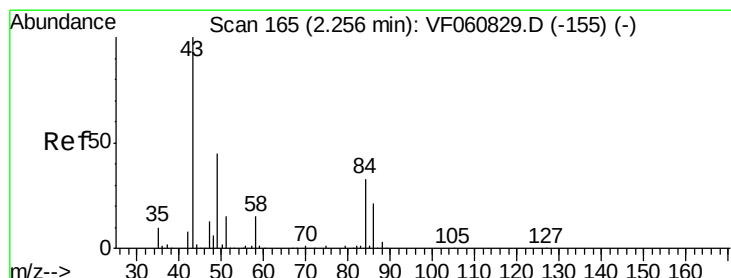
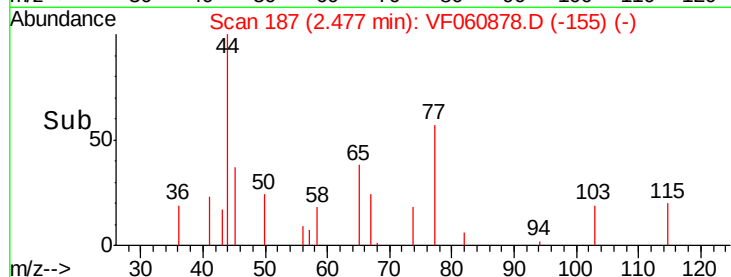
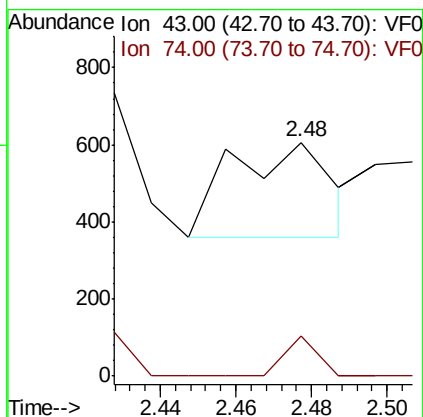
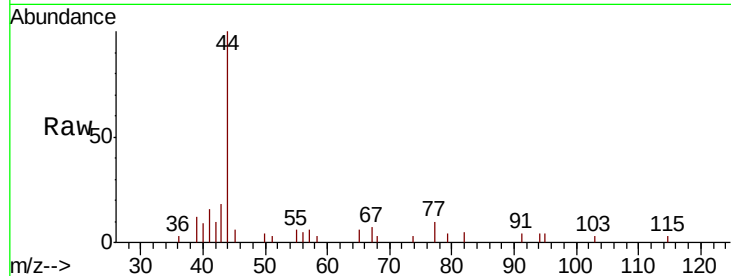




#18
Methyl Acetate
Concen: Below Cal
RT: 2.48 min Scan# 187
Delta R.T. 0.11 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

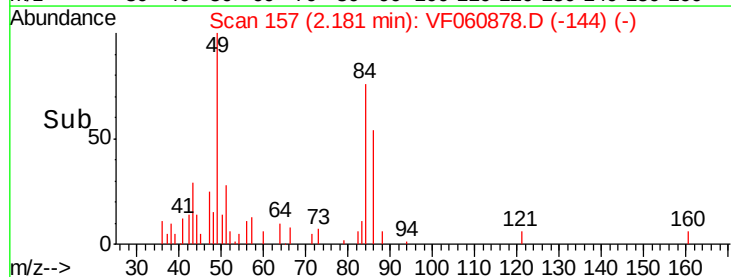
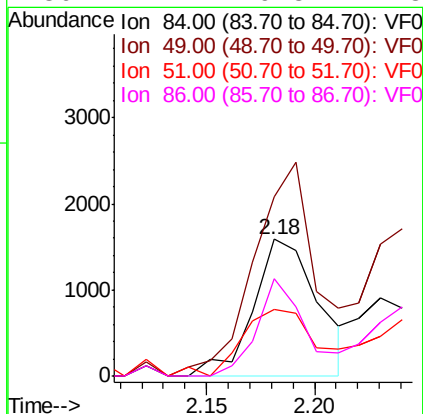
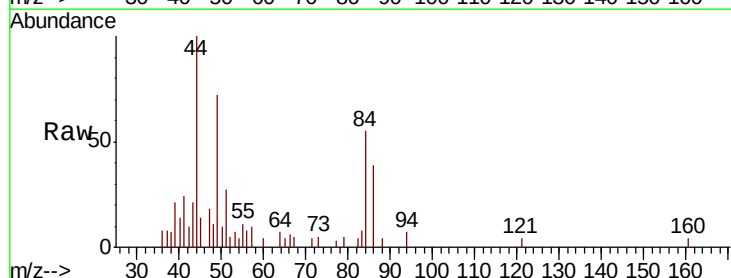
Instrument :
MSVOA_F
ClientSampleId :
NB-07-112918RE

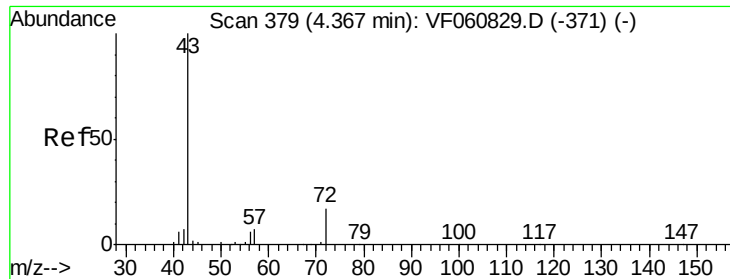
Tot Ion: 43 Resp: 449
Ion Ratio Lower Upper
43 100
74 17.0 13.3 19.9



#20
Methylene Chloride
Concen: 2.298 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.07 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

Tgt Ion: 84 Resp: 3301
Ion Ratio Lower Upper
84 100
49 131.1 111.3 166.9
51 49.0 38.0 57.0
86 71.1 49.8 74.8





#25

2-Butanone

Concen: 2.522 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

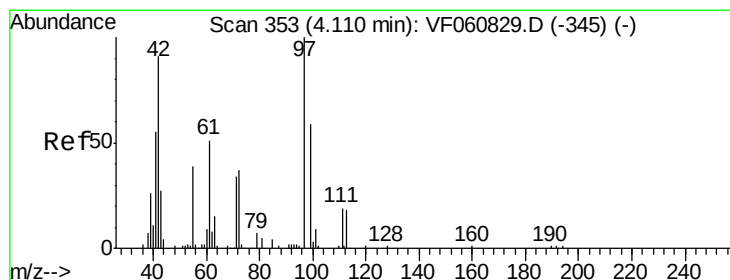
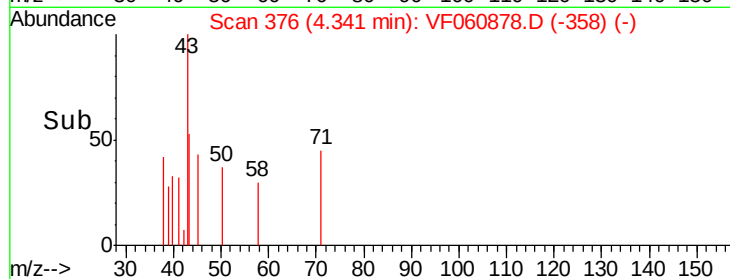
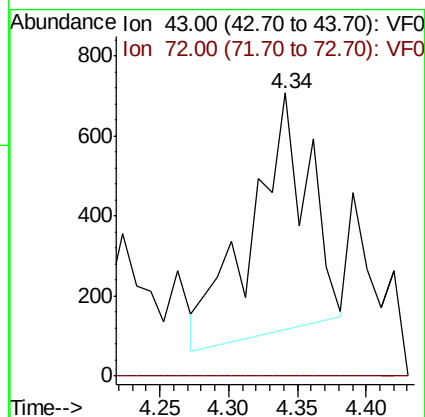
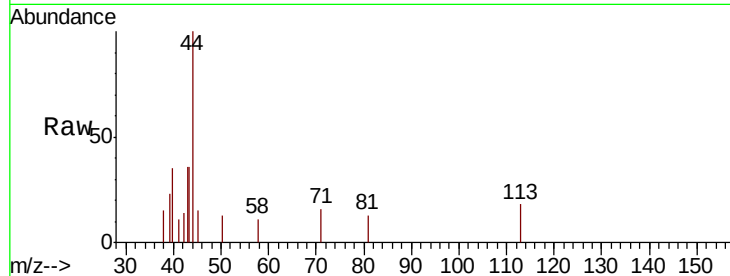
NB-07-112918RE

Tot Ion: 43 Resp: 1708

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



#29

Tetrahydrofuran

Concen: 1.630 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

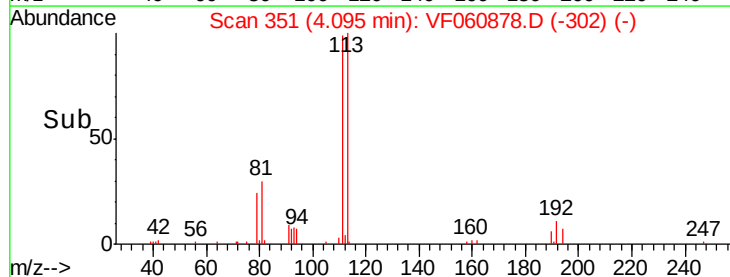
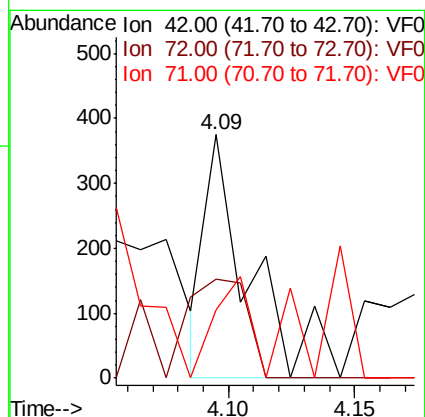
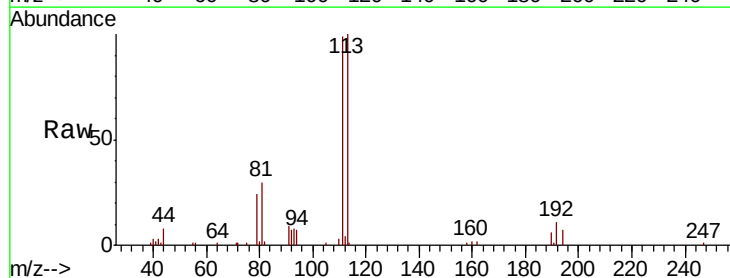
Tgt Ion: 42 Resp: 468

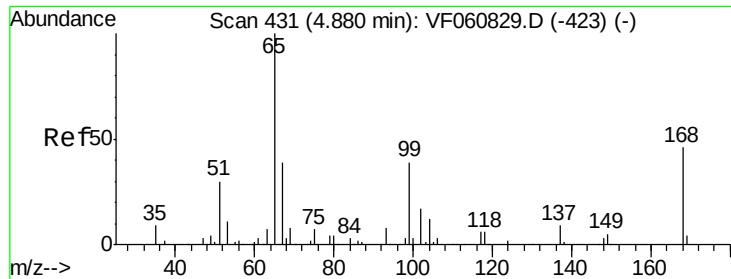
Ion Ratio Lower Upper

42 100

72 69.0 31.9 47.9#

71 32.9 28.7 43.1

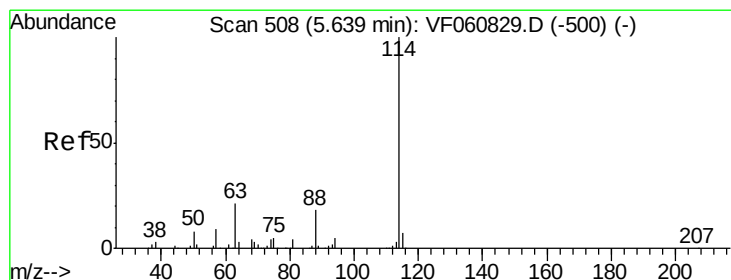
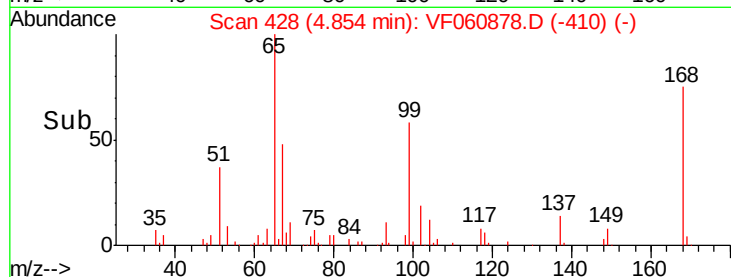
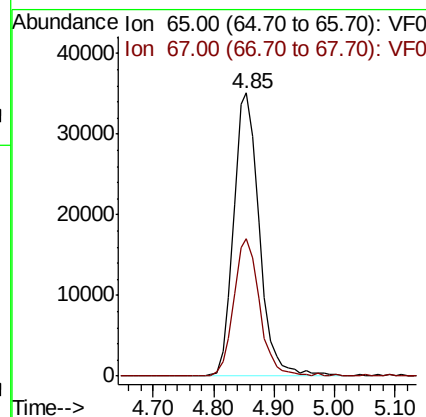
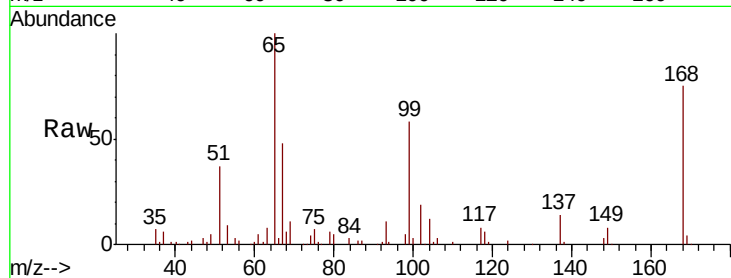




#33
 1,2-Dichloroethane-d4
 Concen: 48.914 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.03 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

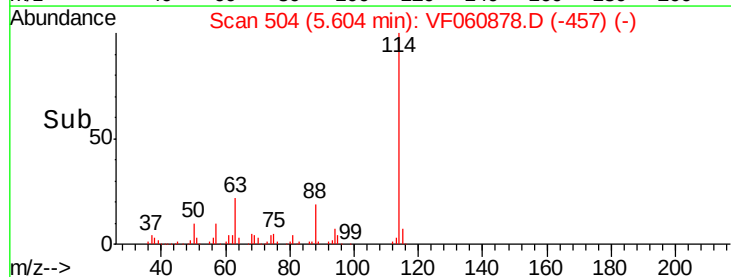
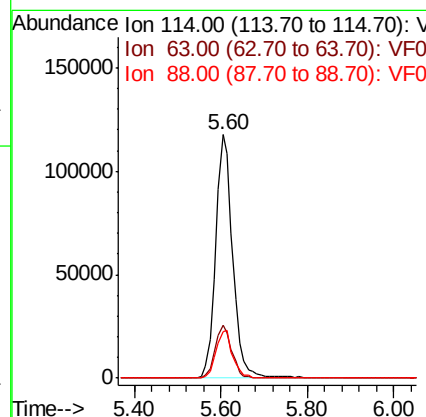
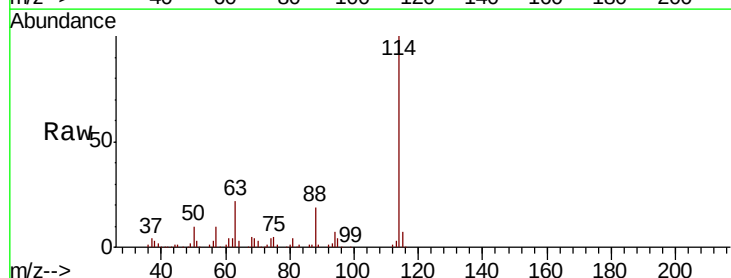
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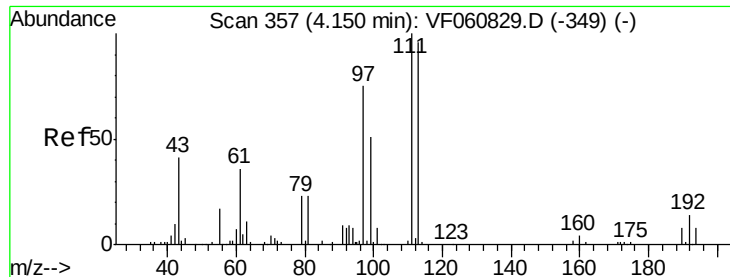
Tot Ion: 65 Resp: 103860
 Ion Ratio Lower Upper
 65 100
 67 48.4 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

Tgt Ion: 114 Resp: 321314
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 41.6
 88 19.0 0.0 36.6

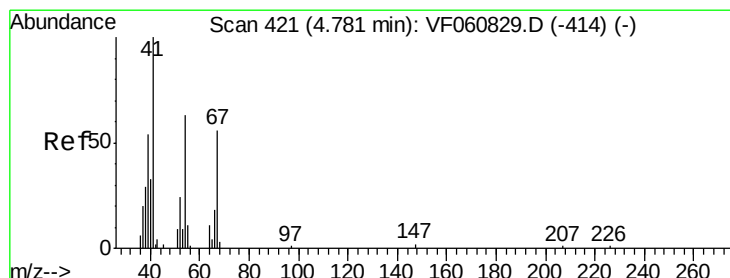
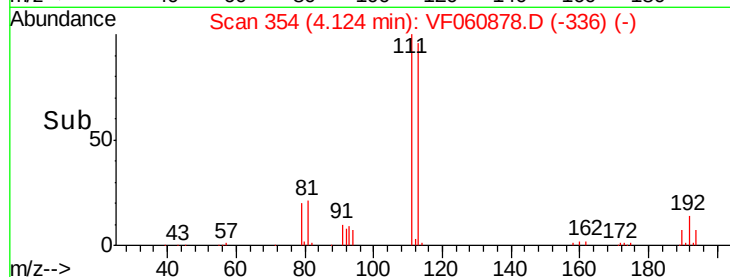
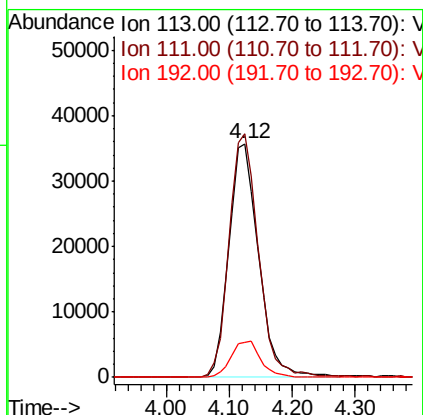
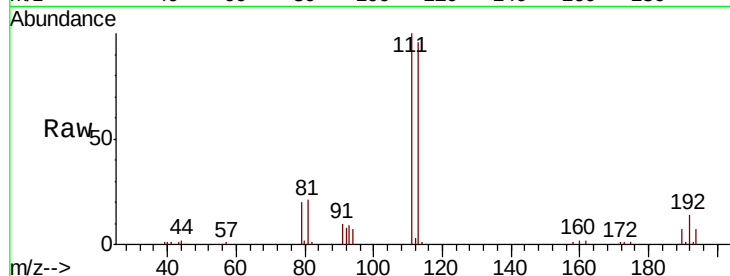




#35
Dibromofluoromethane
Concen: 45.687 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

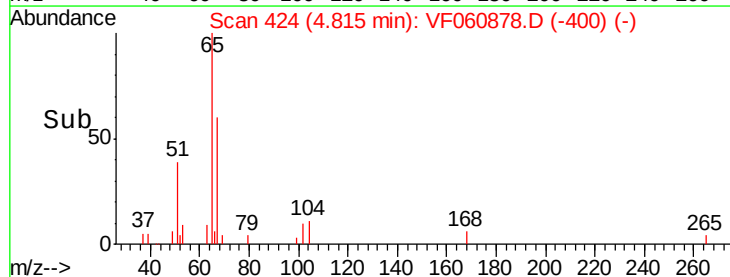
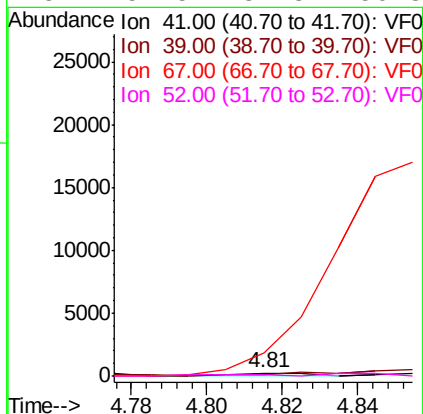
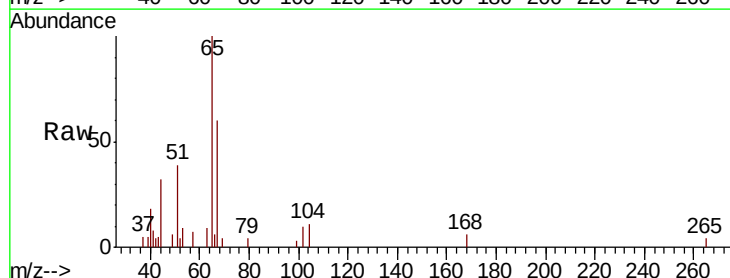
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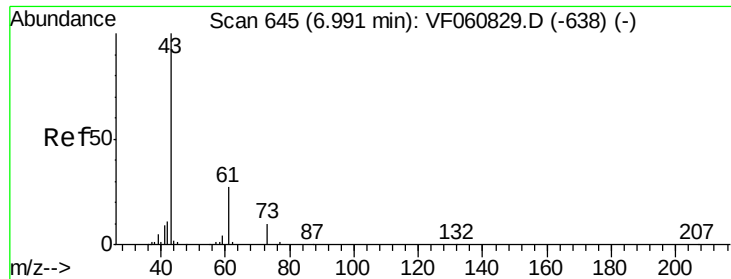
Tot Ion:113 Resp: 116460
Ion Ratio Lower Upper
113 100
111 104.1 83.0 124.6
192 14.9 12.3 18.5



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.81 min Scan# 424
Delta R.T. 0.03 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

Tgt Ion: 41 Resp: 345
Ion Ratio Lower Upper
41 100
39 62.8 53.0 79.6
67 767.4 43.8 65.6#
52 54.5 37.8 56.8



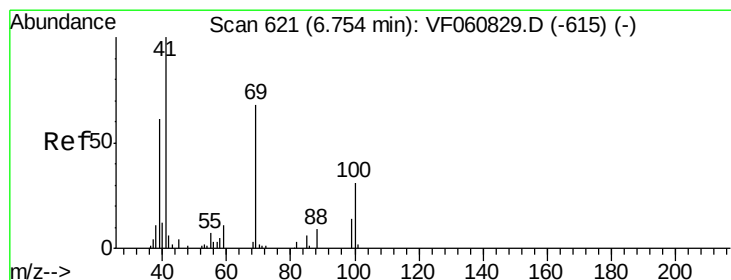
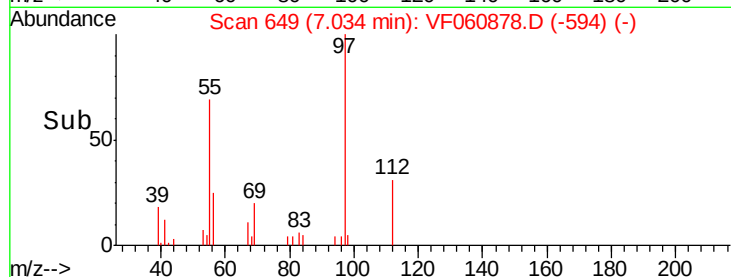
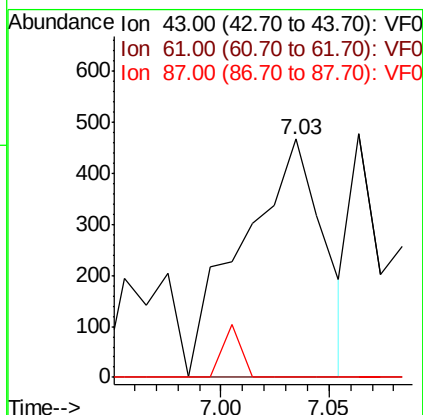
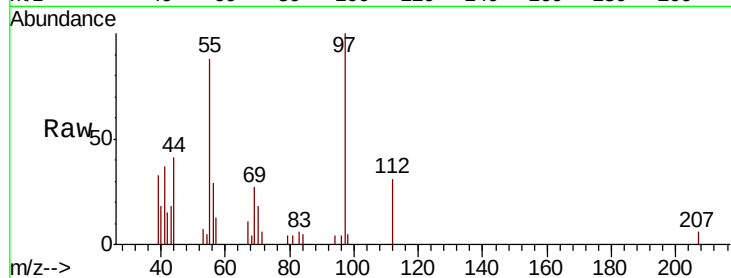


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 7.03 min Scan# 649
 Delta R.T. 0.04 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

Instrument :
 MSVOA_F
 ClientSampleId :
 NB-07-112918RE

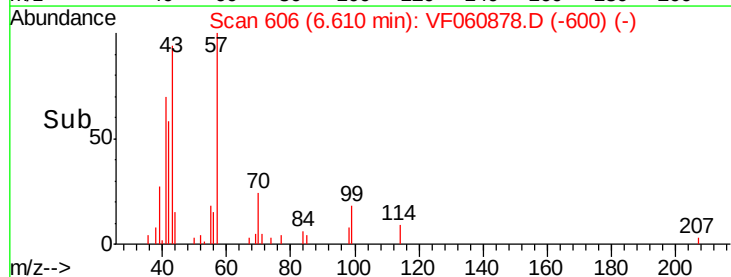
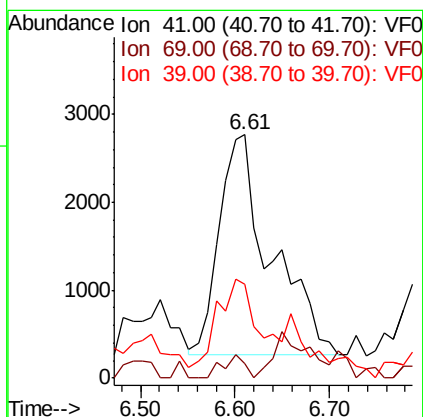
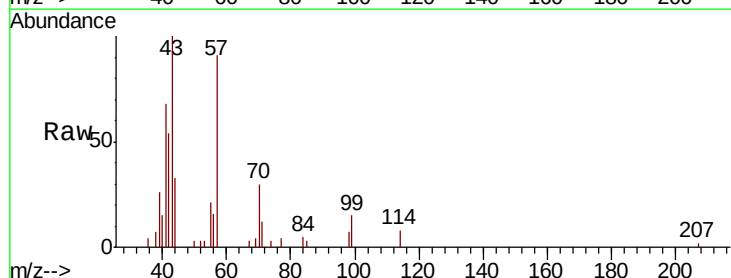
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

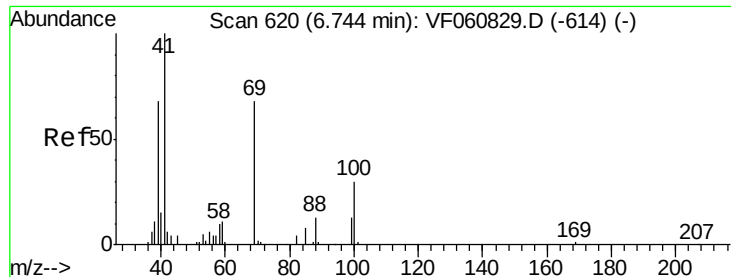


#48

Methyl methacrylate
 Concen: 7.264 ug/l
 RT: 6.61 min Scan# 606
 Delta R.T. -0.14 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

Tgt Ion	Ratio	Lower	Upper
41	100		
69	6.1	53.9	80.9#
39	38.7	49.0	73.6#

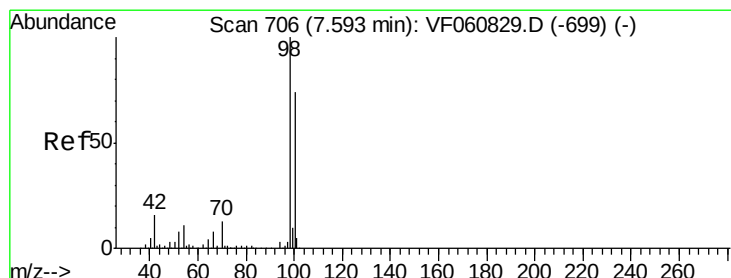
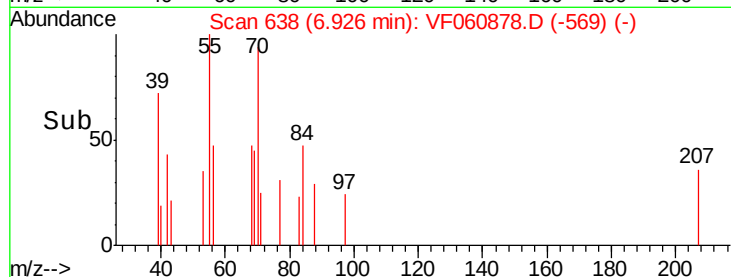
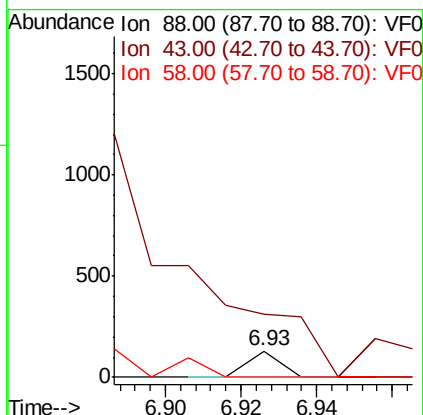
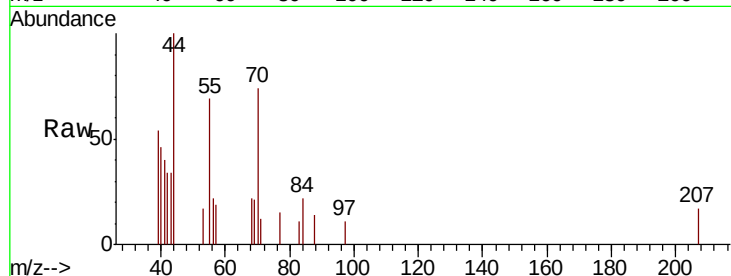




#49
1,4-Dioxane
Concen: 7.921 ug/l
RT: 6.93 min Scan# 638
Delta R.T. 0.18 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

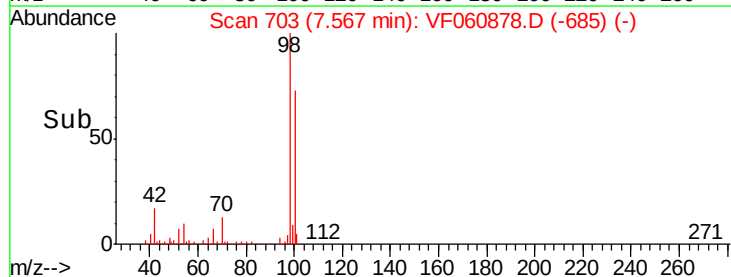
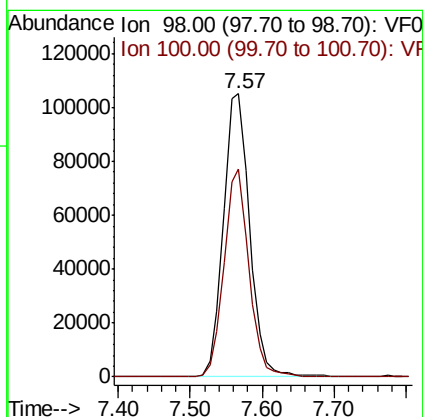
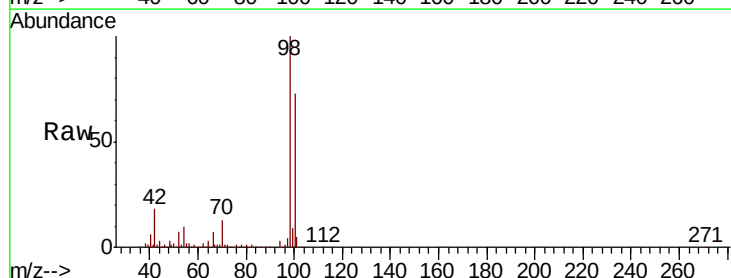
Instrument :
MSVOA_F
ClientSampleId :
NB-07-112918RE

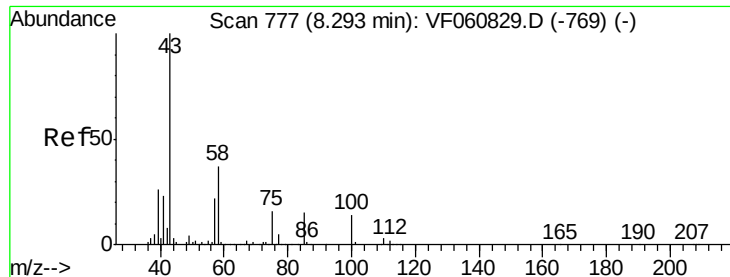
Tot Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 244.2 42.0 63.0#
58 0.0 61.8 92.8#



#50
Toluene-d8
Concen: 35.387 ug/l
RT: 7.57 min Scan# 703
Delta R.T. -0.03 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

Tgt Ion: 98 Resp: 265717
Ion Ratio Lower Upper
98 100
100 73.4 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 5.732 ug/l

RT: 8.30 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

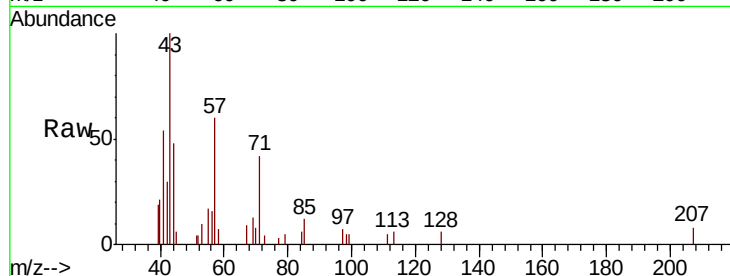
NB-07-112918RE

Tot Ion: 43 Resp: 7655

Ion Ratio Lower Upper

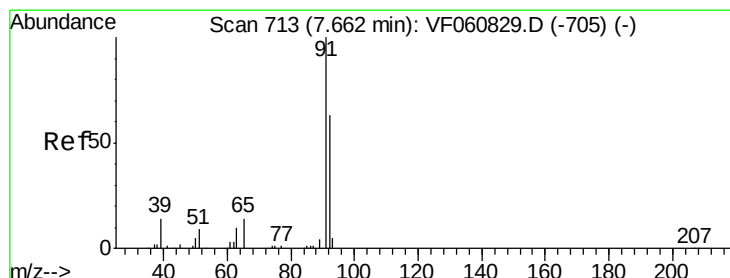
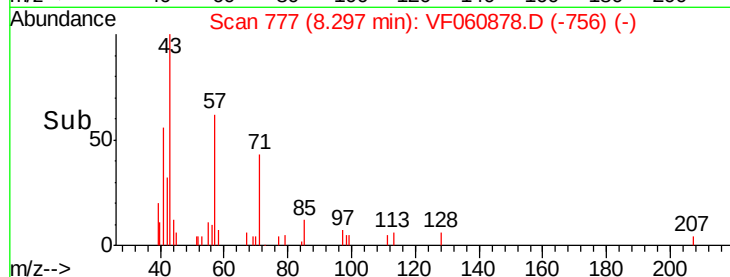
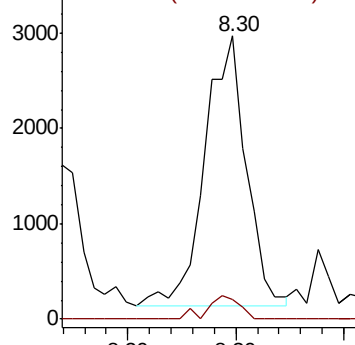
43 100

58 7.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 3.789 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF060878.D

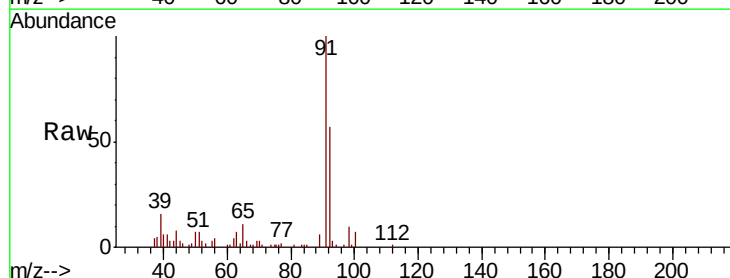
Acq: 29 Nov 2018 20:39

Tgt Ion: 92 Resp: 20952

Ion Ratio Lower Upper

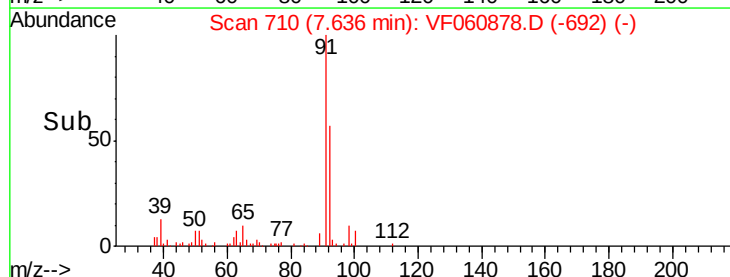
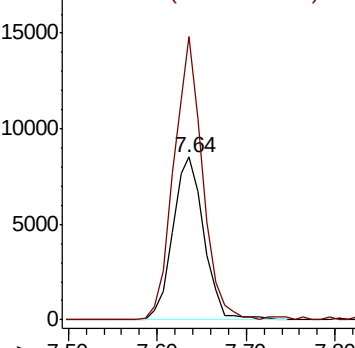
92 100

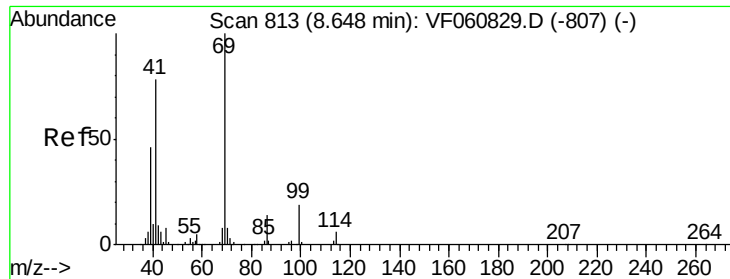
91 174.0 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#56

Ethyl methacrylate

Concen: 4.760 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.02 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

NB-07-112918RE

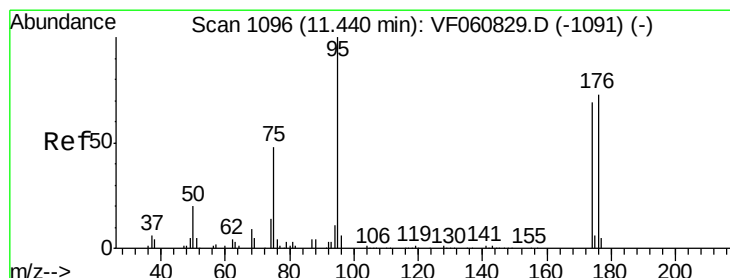
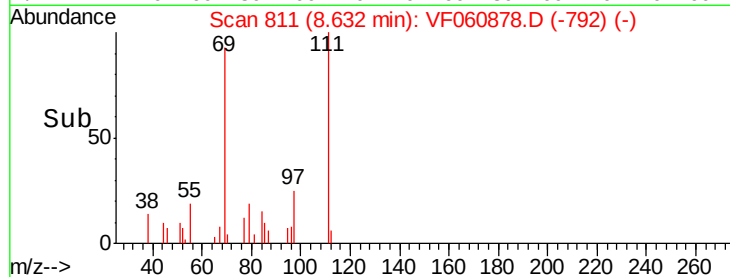
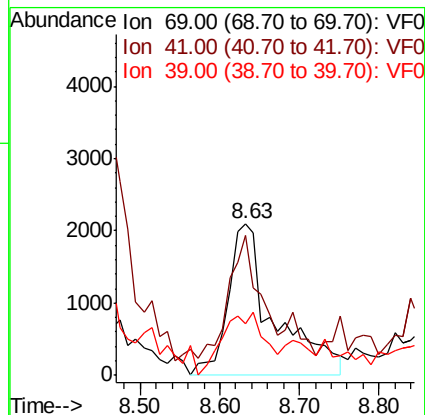
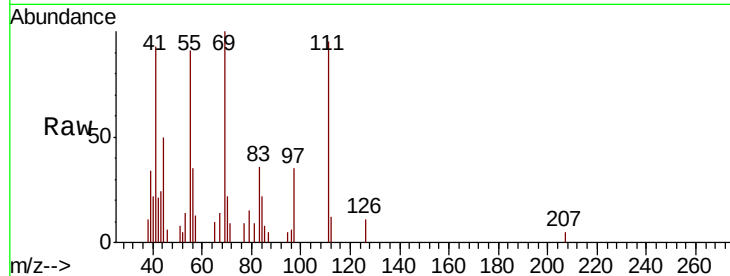
Tot Ion: 69 Resp: 8522

Ion Ratio Lower Upper

69 100

41 92.7 62.6 94.0

39 34.2 37.8 56.6#



#62

4-Bromofluorobenzene

Concen: 33.354 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

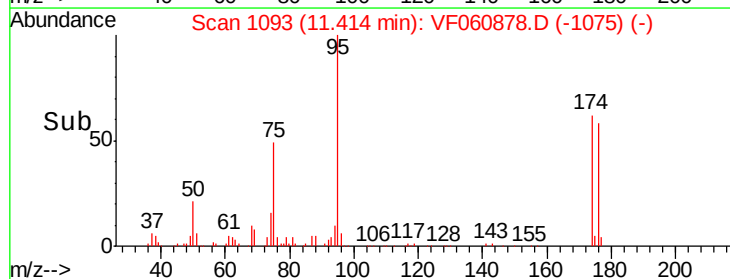
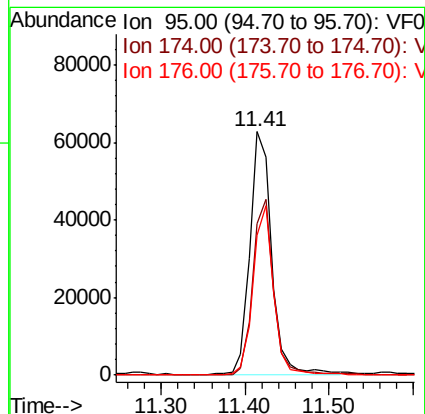
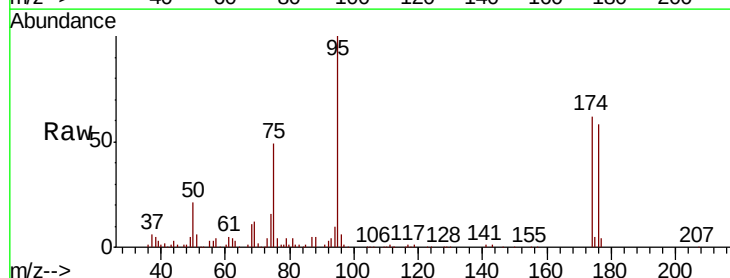
Tgt Ion: 95 Resp: 113825

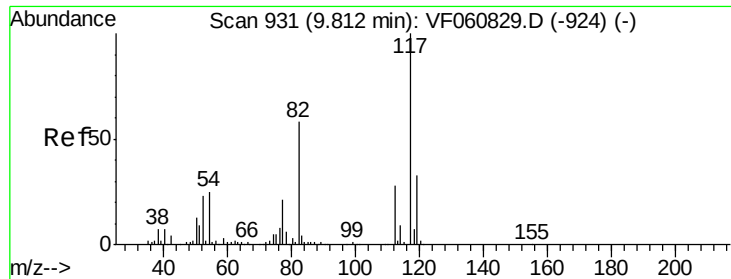
Ion Ratio Lower Upper

95 100

174 62.0 0.0 138.2

176 57.6 0.0 146.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

NB-07-112918RE

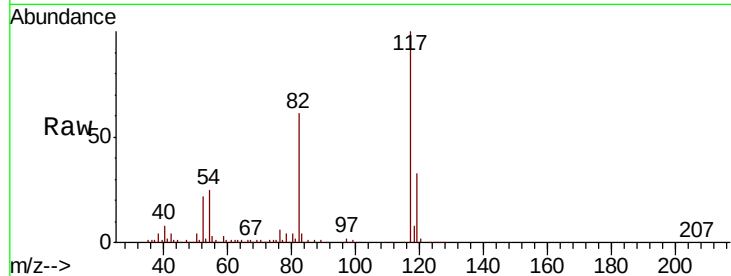
Tot Ion:117 Resp: 256030

Ion Ratio Lower Upper

117 100

82 60.9 46.6 69.8

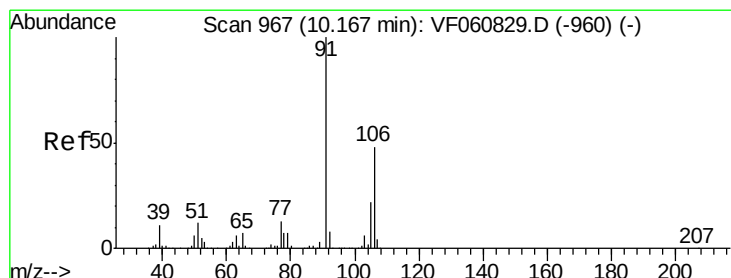
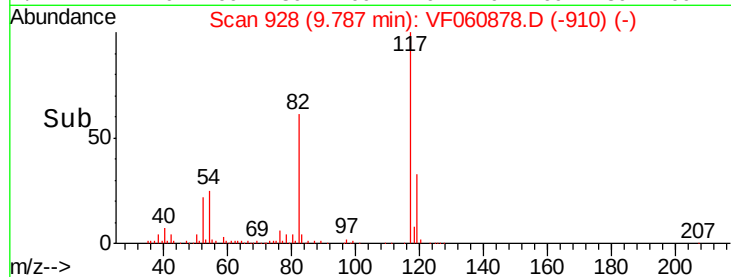
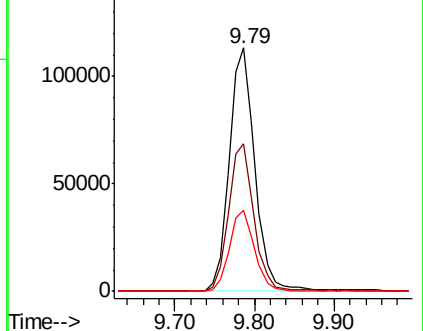
119 33.3 26.4 39.6



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



#68

m/p-Xylenes

Concen: 1.137 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF060878.D

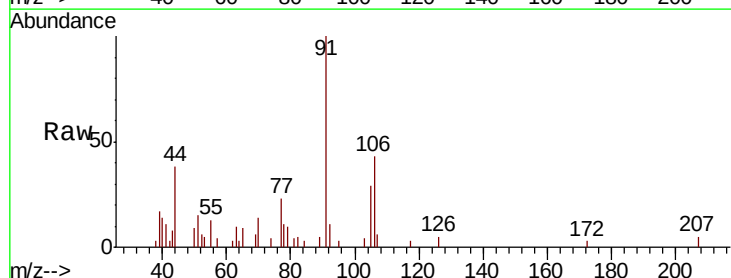
Acq: 29 Nov 2018 20:39

Tgt Ion:106 Resp: 3792

Ion Ratio Lower Upper

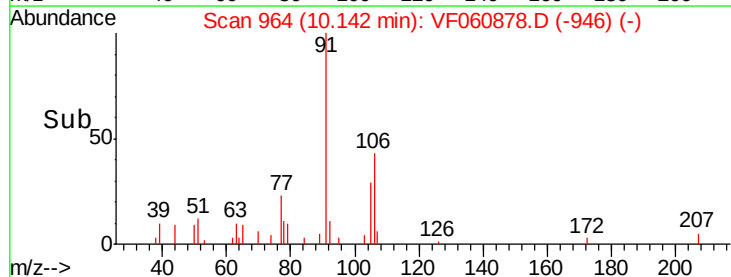
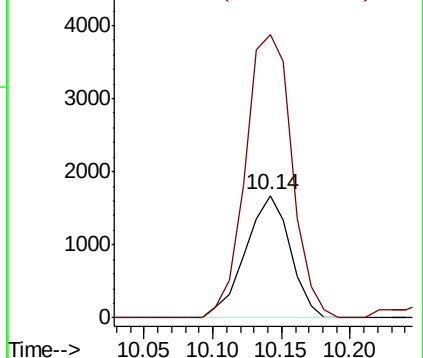
106 100

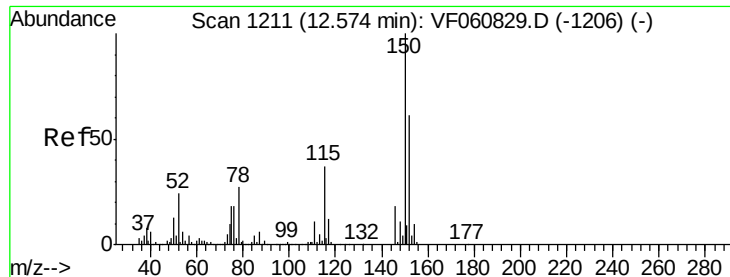
91 231.4 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

NB-07-112918RE

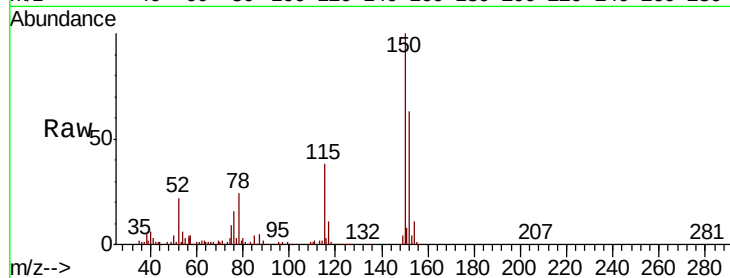
Tot Ion:152 Resp: 97396

Ion Ratio Lower Upper

152 100

115 60.0 30.1 90.5

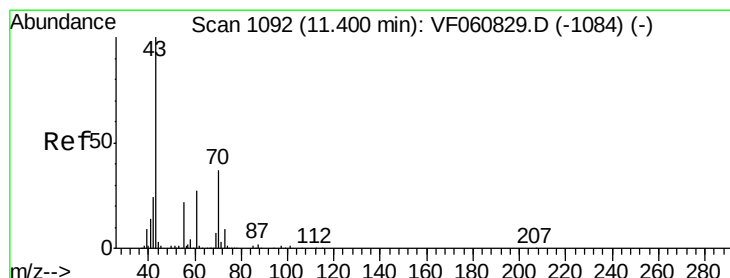
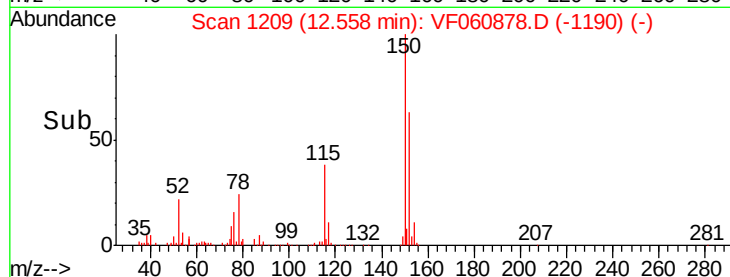
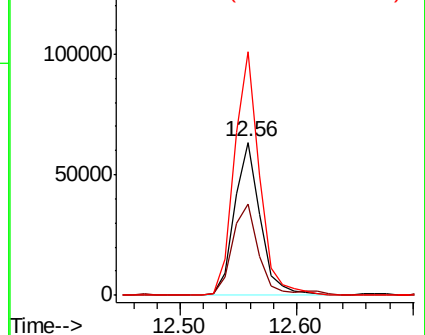
150 159.3 0.0 327.6



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-amyl acetate

Concen: 1.630 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.02 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Tgt Ion: 43 Resp: 2897

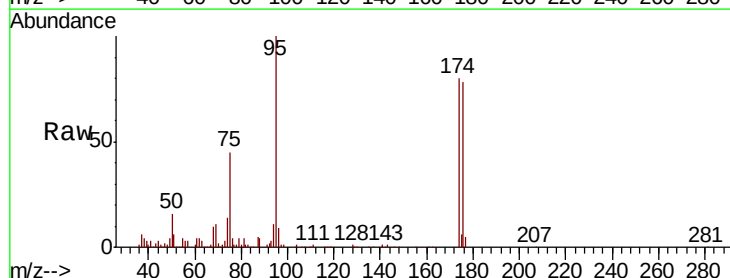
Ion Ratio Lower Upper

43 100

70 100.8 29.6 44.4#

55 214.6 17.2 25.8#

61 240.7 21.8 32.6#

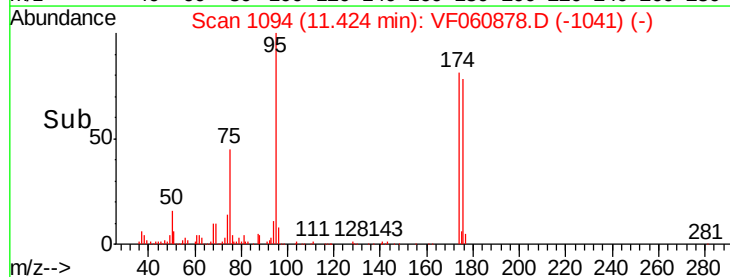
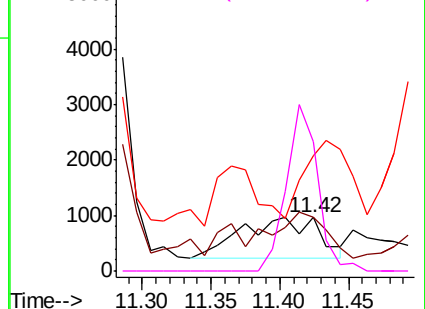


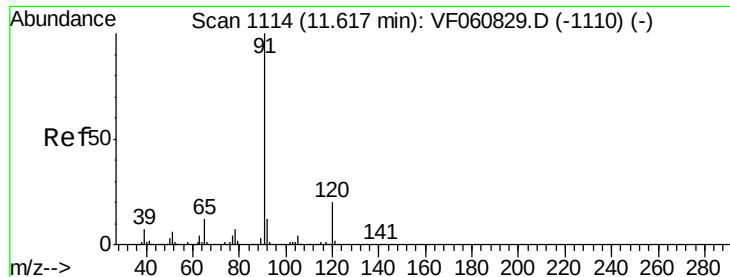
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#78

n-propylbenzene

Concen: 1.130 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

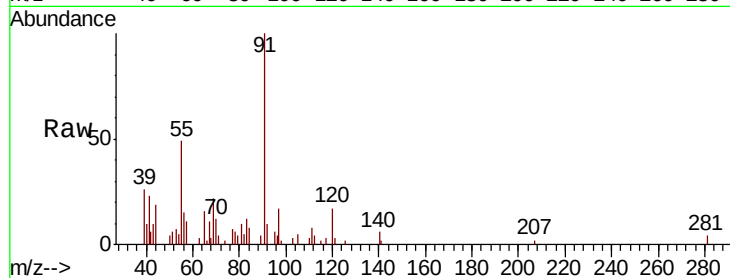
NB-07-112918RE

Tot Ion: 91 Resp: 10188

Ion Ratio Lower Upper

91 100

120 17.3 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.60

6000

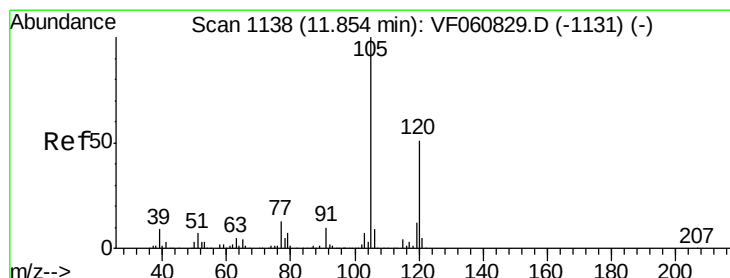
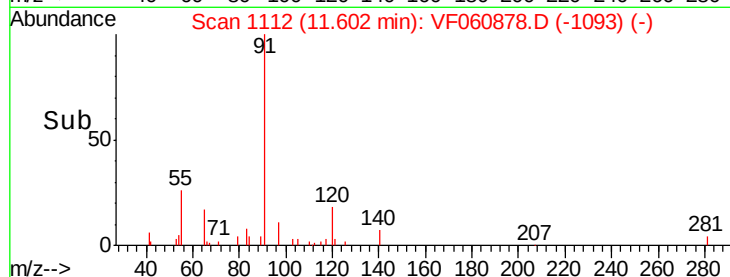
4000

2000

0

11.55 11.60 11.65

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 2.521 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF060878.D

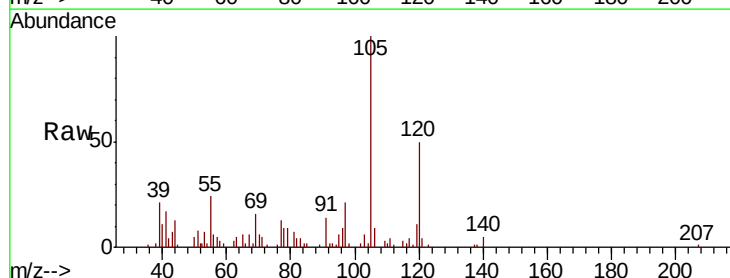
Acq: 29 Nov 2018 20:39

Tgt Ion: 105 Resp: 15755

Ion Ratio Lower Upper

105 100

120 49.8 25.8 77.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.83

12000

10000

8000

6000

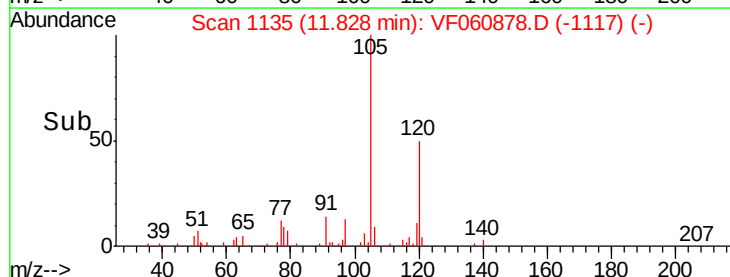
4000

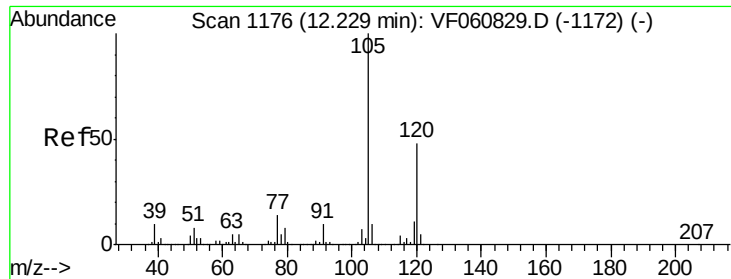
2000

0

11.75 11.80 11.85 11.90

Time-->

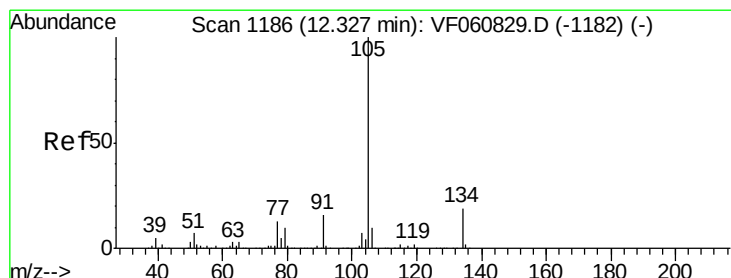
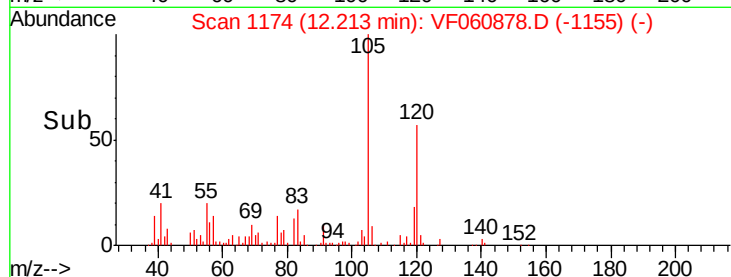
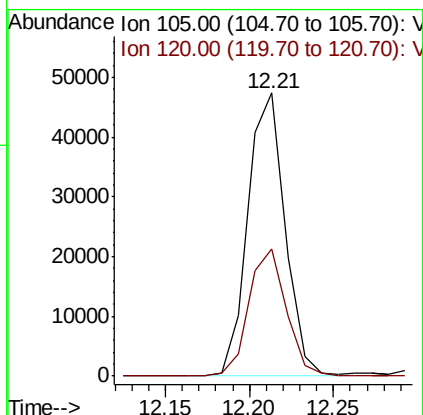
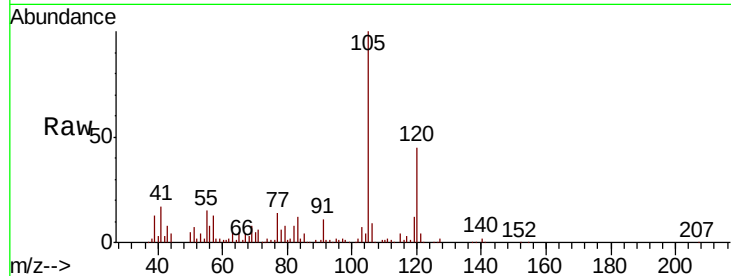




#84
 1,2,4-Trimethylbenzene
 Concen: 11.645 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

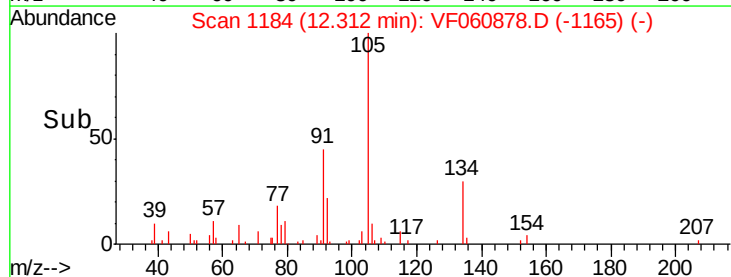
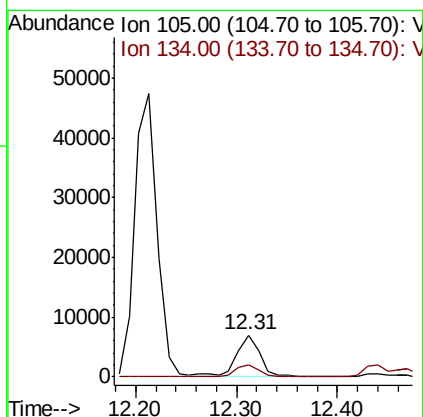
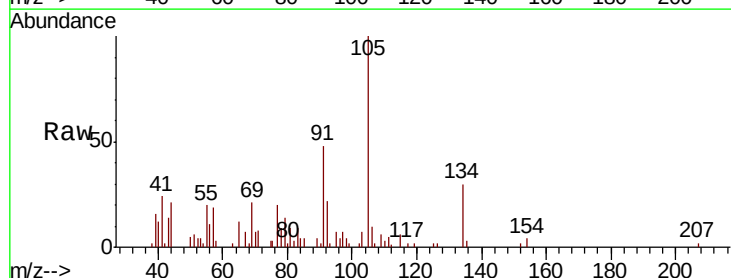
Instrument :
 MSVOA_F
 ClientSampleId :
 NB-07-112918RE

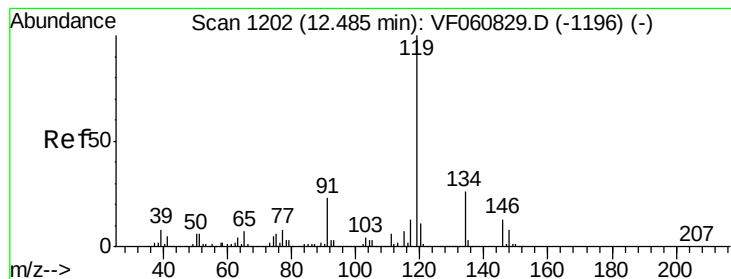
Tot Ion:105 Resp: 72616
 Ion Ratio Lower Upper
 105 100
 120 45.1 23.8 71.5



#85
 sec-Butylbenzene
 Concen: 1.367 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: VF060878.D
 Acq: 29 Nov 2018 20:39

Tgt Ion:105 Resp: 11911
 Ion Ratio Lower Upper
 105 100
 134 29.5 9.5 28.5#





#86

p-Isopropyltoluene

Concen: 2.622 ug/l

RT: 12.44 min Scan# 1197

Delta R.T. -0.05 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

Instrument :

MSVOA_F

ClientSampleId :

NB-07-112918RE

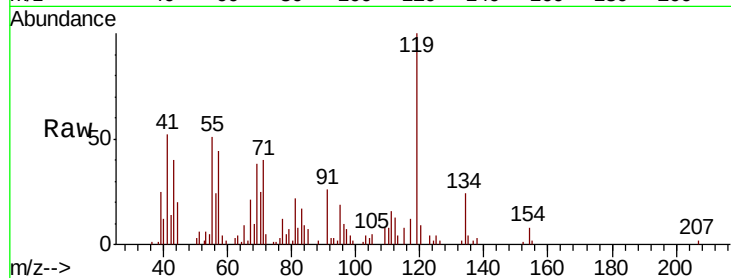
Tot Ion:119 Resp: 19156

Ion Ratio Lower Upper

119 100

134 24.5 12.9 38.6

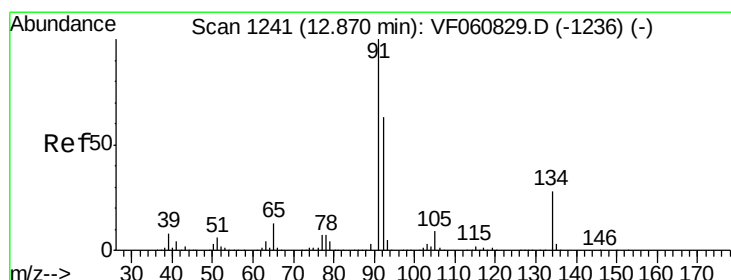
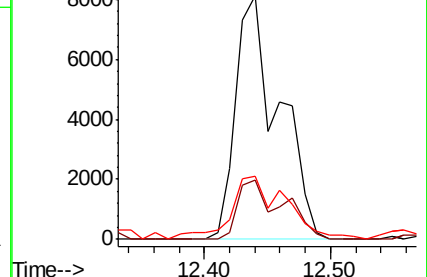
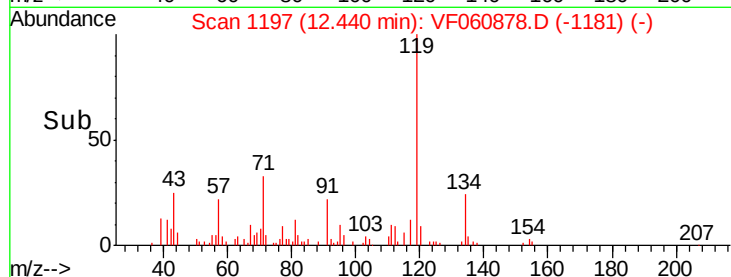
91 25.9 11.8 35.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 4.779 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.03 min

Lab File: VF060878.D

Acq: 29 Nov 2018 20:39

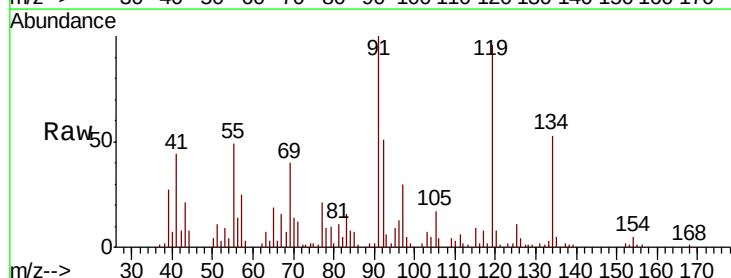
Tgt Ion: 91 Resp: 35301

Ion Ratio Lower Upper

91 100

92 50.5 31.6 94.7

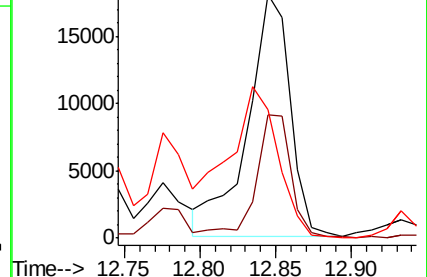
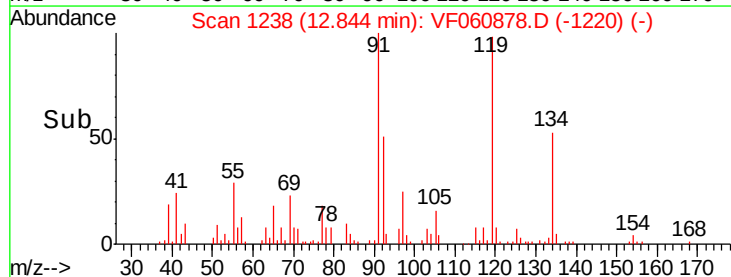
134 52.6 13.8 41.4#

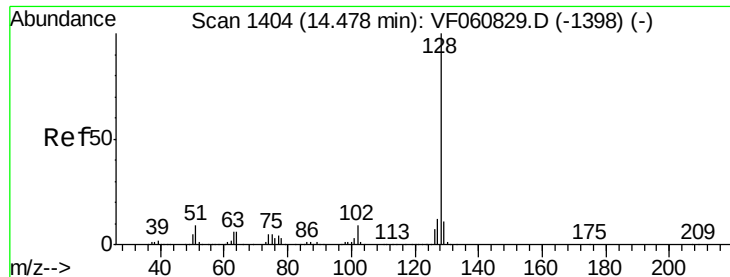


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

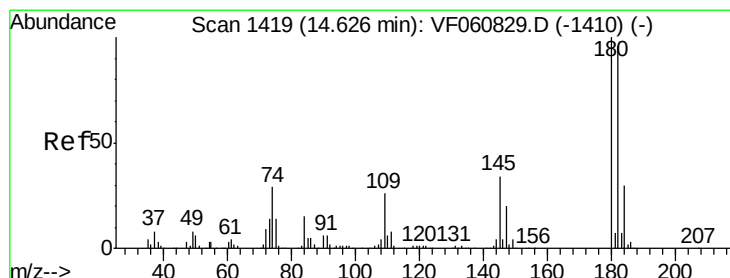
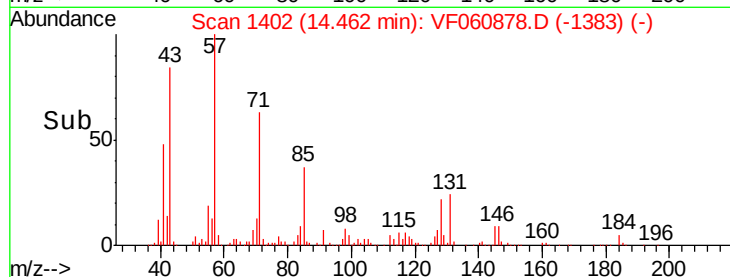
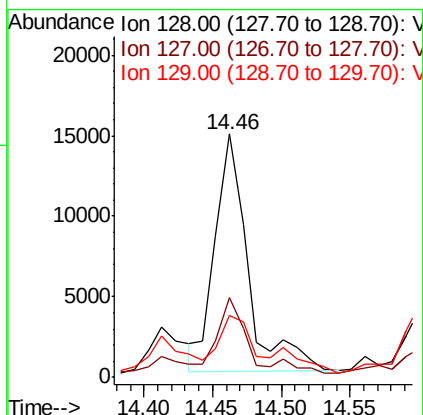
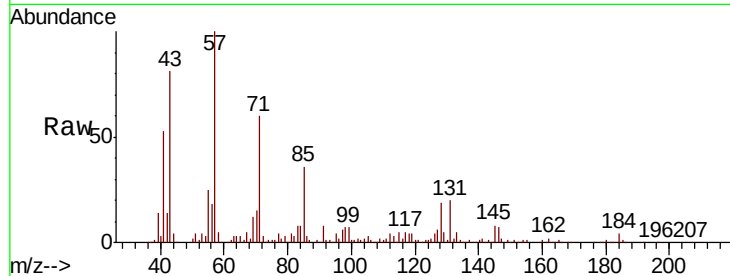




#95
Naphthalene
Concen: 2.668 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

Instrument :
MSVOA_F
ClientSampleId :
NB-07-112918RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	32.8	9.9	14.9#
129	25.4	9.1	13.7#



#96
1,2,3-Trichlorobenzene
Concen: 1.264 ug/l
RT: 14.65 min Scan# 1421
Delta R.T. 0.02 min
Lab File: VF060878.D
Acq: 29 Nov 2018 20:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	25.6	47.9	143.8#
145	123.7	17.2	51.5#

