

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\
 Data File : BF111425.D
 Acq On : 14 Dec 2018 18:12
 Operator : JU/SJ
 Sample : J6319-10DL 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 14 18:40:29 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 14 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	174460	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	693674	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	306638	20.00	ng	0.00
64) Phenanthrene-d10	11.31	188	460463	20.00	ng	0.00
76) Chrysene-d12	13.95	240	355973	20.00	ng	0.00
87) Perylene-d12	15.40	264	295333	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	94707	9.03	ng	0.00
7) Phenol-d6	6.43	99	126744	9.09	ng	-0.01
23) Nitrobenzene-d5	7.35	82	71813	6.16	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	19354	7.05	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	115064	5.80	ng	0.00
79) Terphenyl-d14	12.89	244	73210	4.83	ng	0.00

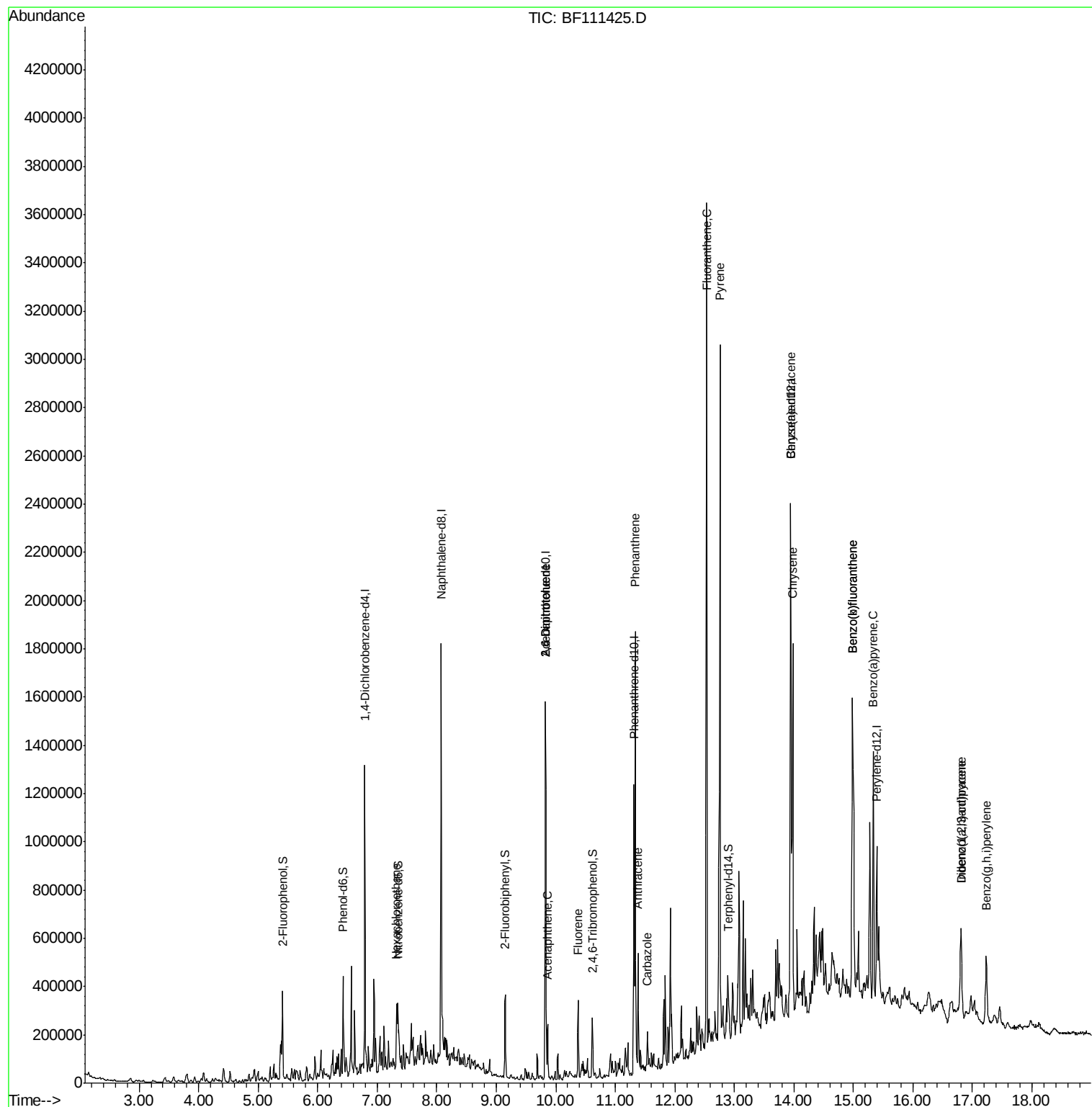
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
18) Hexachloroethane	7.33	117	14231	2.732	ng	# 1
51) 2,6-Dinitrotoluene	9.83	165	40526	8.153	ng	# 29
52) Acenaphthene	9.86	154	47627	2.570	ng	90
57) 2,4-Dinitrotoluene	9.83	165	40526	6.212	ng	# 24
58) Fluorene	10.37	166	84816	4.348	ng	95
71) Phenanthrene	11.34	178	723014	30.472	ng	94
72) Anthracene	11.39	178	165015	6.801	ng	95
73) Carbazole	11.54	167	60857	2.425	ng	98
75) Fluoranthene	12.53	202	1260339	54.297	ng	97
78) Pyrene	12.76	202	1151374	45.876	ng	96
81) Benzo(a)anthracene	13.94	228	639007	33.014	ng	99
83) Chrysene	13.98	228	635273	31.156	ng	97
86) Indeno(1,2,3-cd)pyrene	16.81	276	229918	15.624	ng	# 90
88) Benzo(b)fluoranthene	14.99	252	977692	56.782	ng	98
89) Benzo(k)fluoranthene	14.99	252	977692	59.426	ng	97
90) Benzo(a)pyrene	15.33	252	489396	31.519	ng	98
91) Dibenzo(a,h)anthracene	16.82	278	61711	5.038	ng	93
92) Benzo(g,h,i)perylene	17.23	276	208128	17.311	ng	94

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

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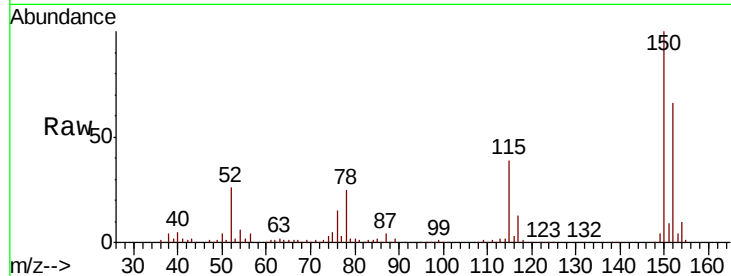


#1

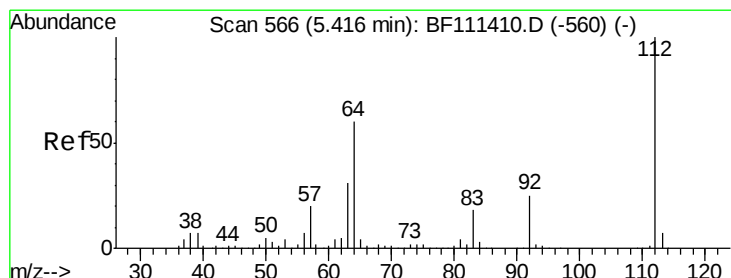
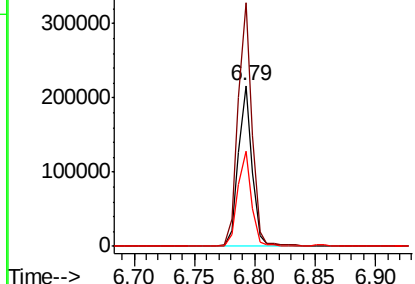
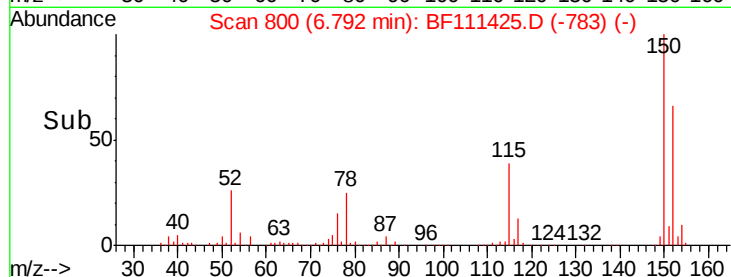
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 174460
Ion Ratio Lower Upper
152 100
150 151.5 126.6 189.8
115 59.5 50.7 76.1



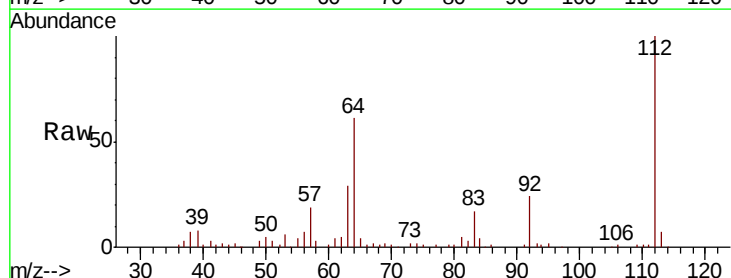
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



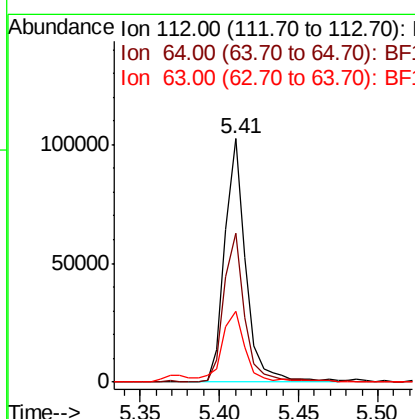
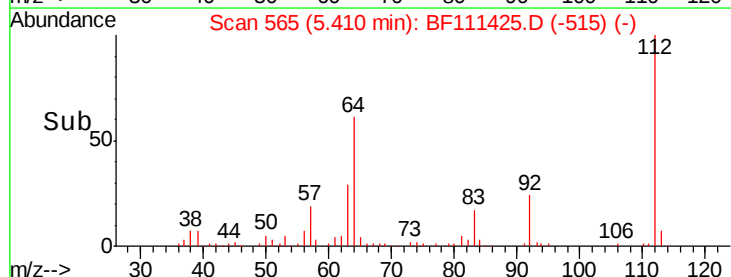
#5

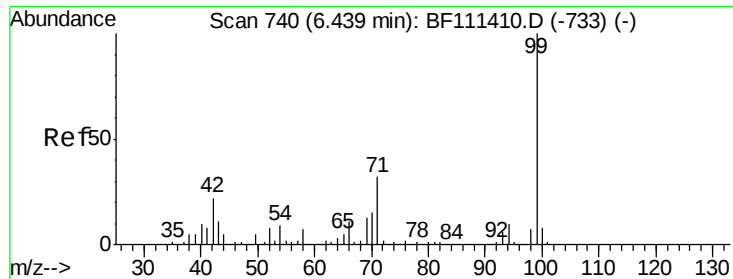
2-Fluorophenol
Concen: 9.033 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.00 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion:112 Resp: 94707
Ion Ratio Lower Upper
112 100
64 61.3 51.8 77.6
63 29.3 26.8 40.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 9.088 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

Instrument :

BNA_F

ClientSampleId :

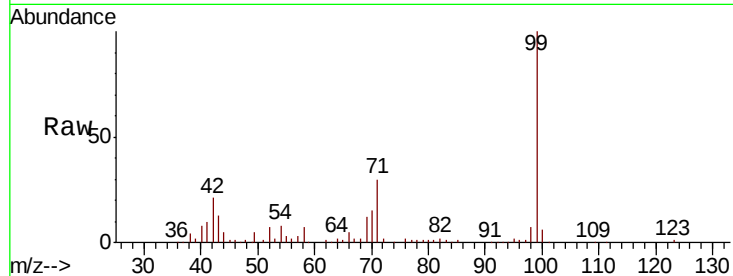
Tot Ion: 99 Resp: 126744

Ion Ratio Lower Upper

99 100

42 21.1 17.4 26.0

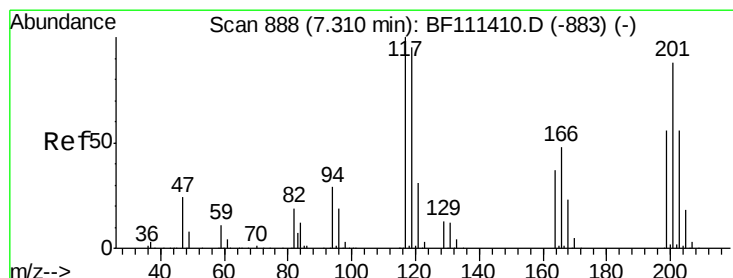
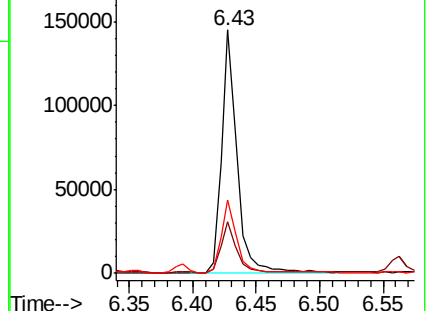
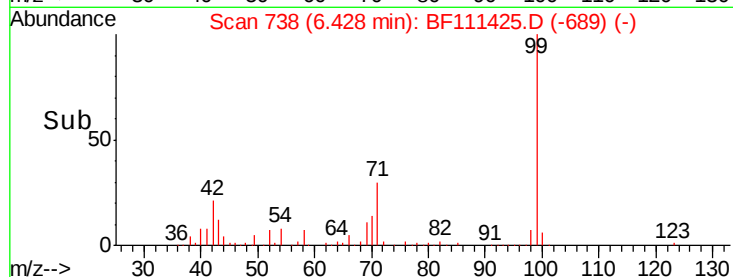
71 30.0 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#18

Hexachloroethane

Concen: 2.732 ng

RT: 7.33 min Scan# 891

Delta R.T. 0.02 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

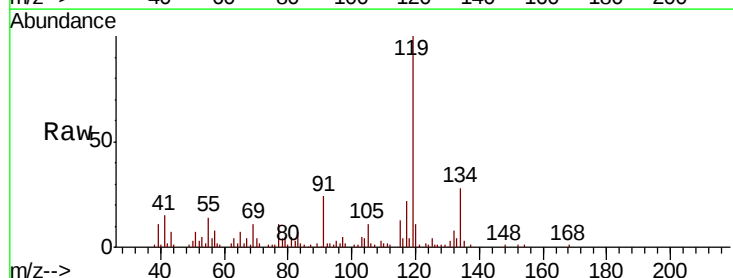
Tgt Ion: 117 Resp: 14231

Ion Ratio Lower Upper

117 100

119 446.9 75.4 113.0#

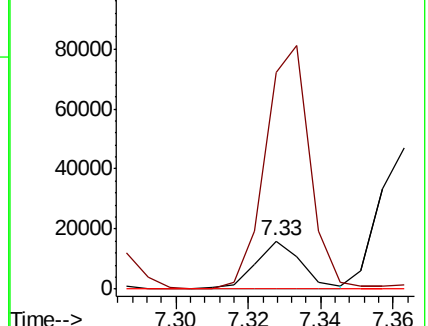
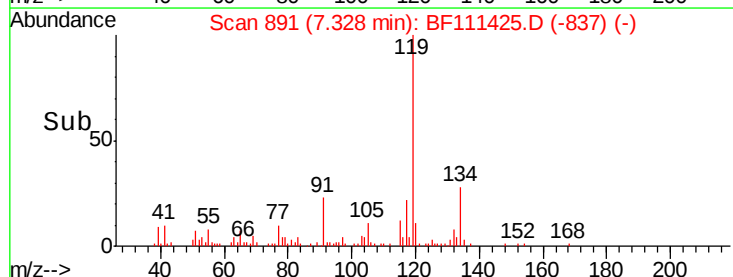
201 0.0 62.4 93.6#

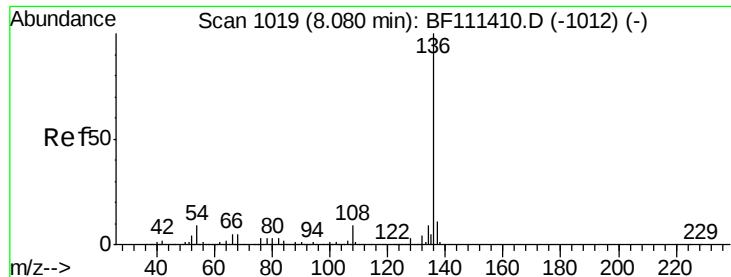


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

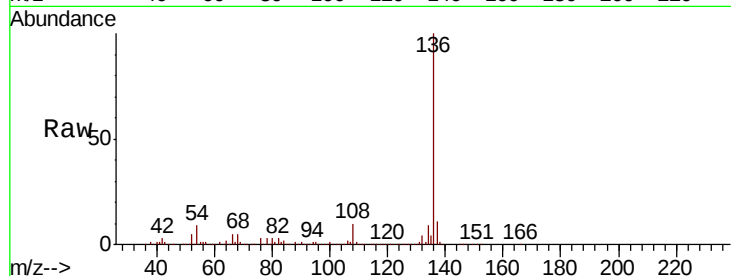




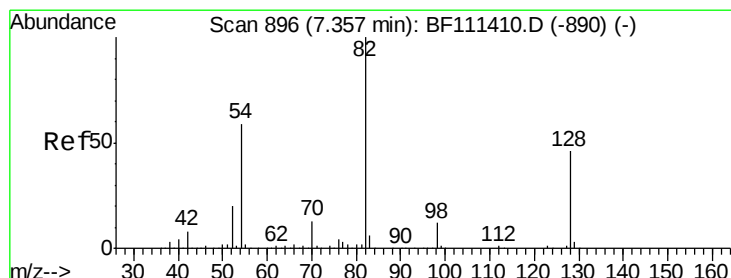
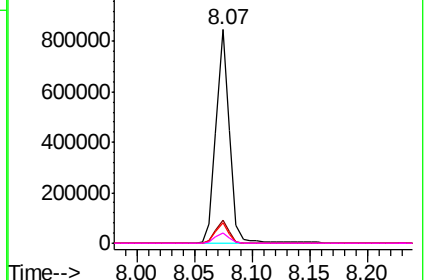
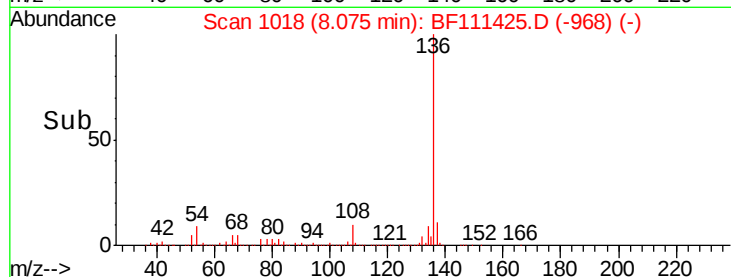
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	693674	
Ion Ratio	Lower	Upper	
136 100			
137 11.0	9.1	13.7	
54 9.5	7.7	11.5	
68 5.0	4.9	7.3	

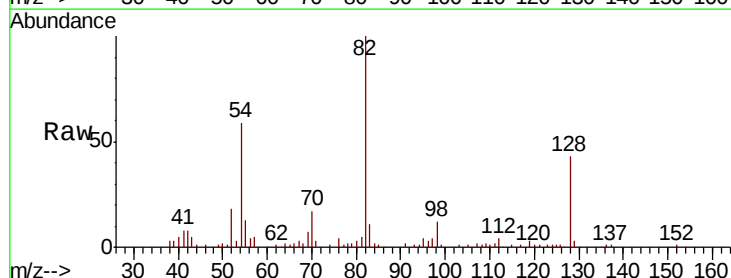


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

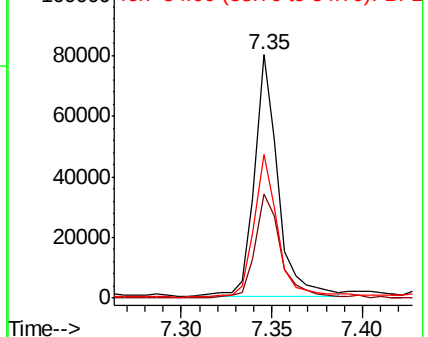
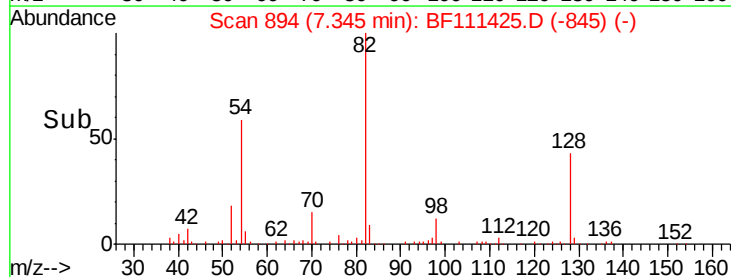


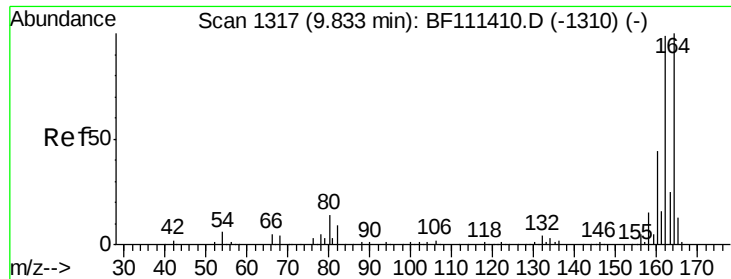
#23
Nitrobenzene-d5
Concen: 6.165 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion: 82	Resp: 71813
Ion Ratio	Lower Upper
82 100	
128 42.6	37.4 56.2
54 59.3	47.6 71.4



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

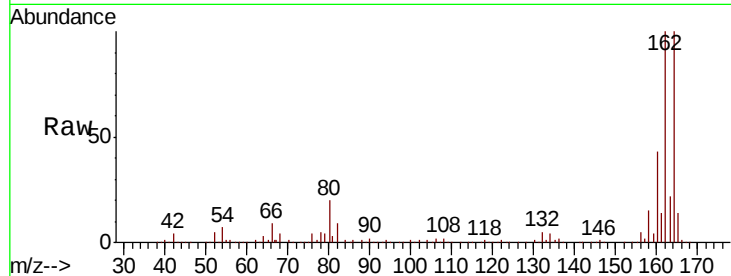




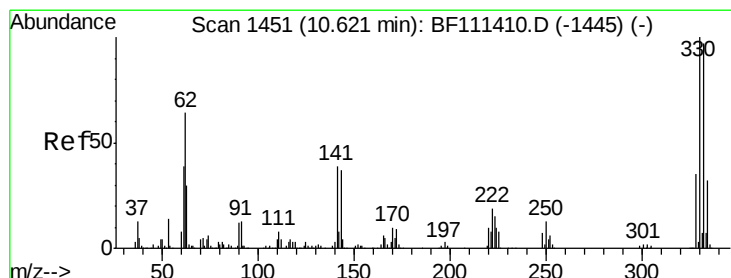
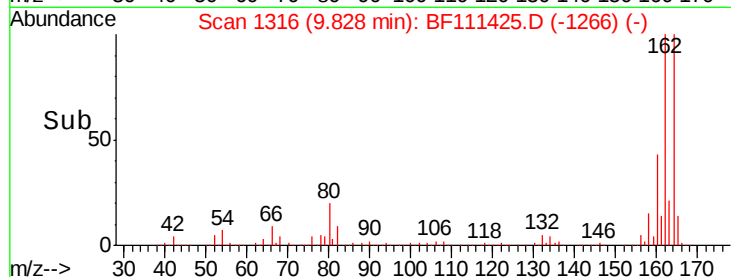
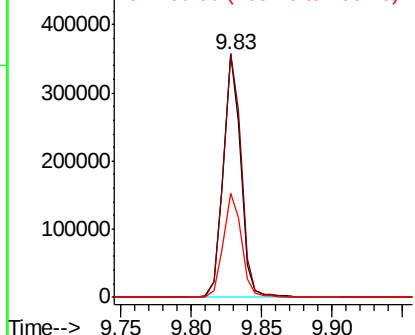
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 306638
Ion Ratio Lower Upper
164 100
162 100.1 81.4 122.0
160 42.9 35.7 53.5

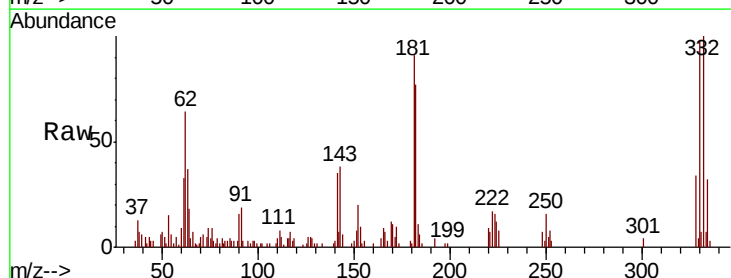


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

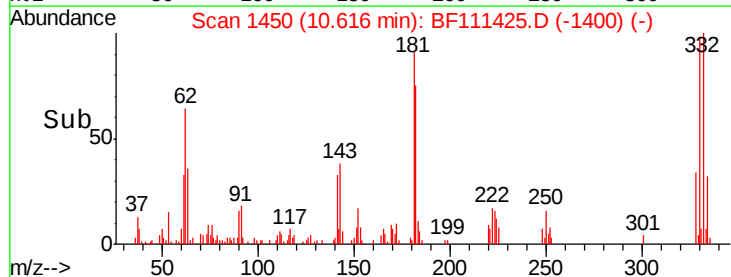
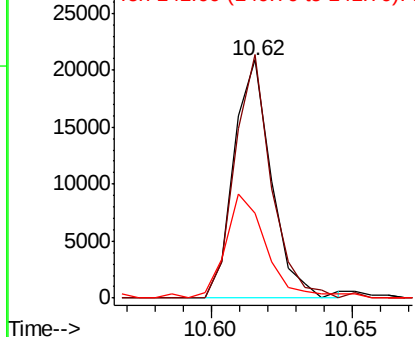


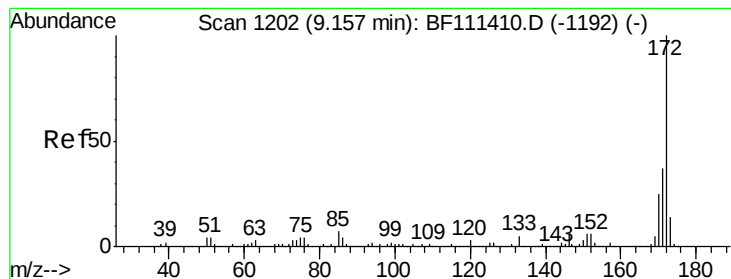
#42
2,4,6-Tribromophenol
Concen: 7.046 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion:330 Resp: 19354
Ion Ratio Lower Upper
330 100
332 98.9 76.0 114.0
141 48.6 31.0 46.6#



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 5.796 ng

RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

Instrument :

BNA_F

ClientSampleId :

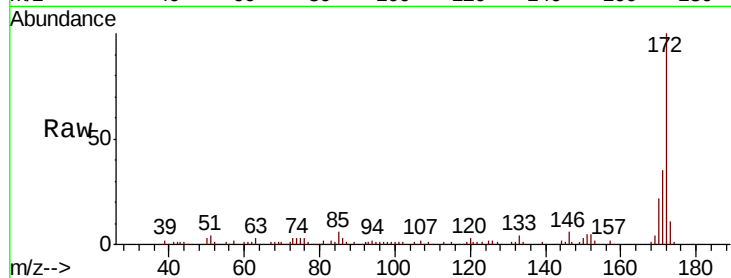
Tot Ion:172 Resp: 115064

Ion Ratio Lower Upper

172 100

171 34.5 33.0 49.4

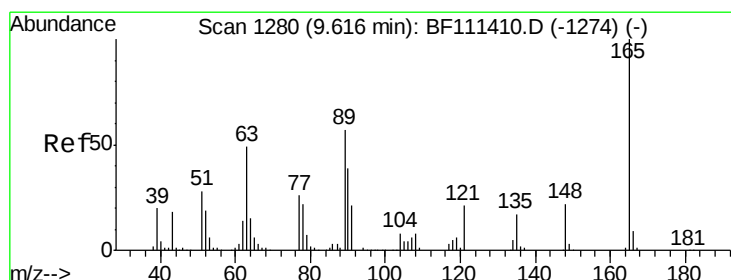
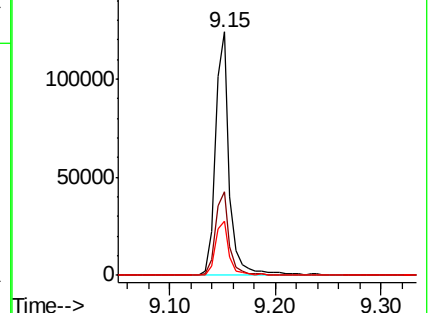
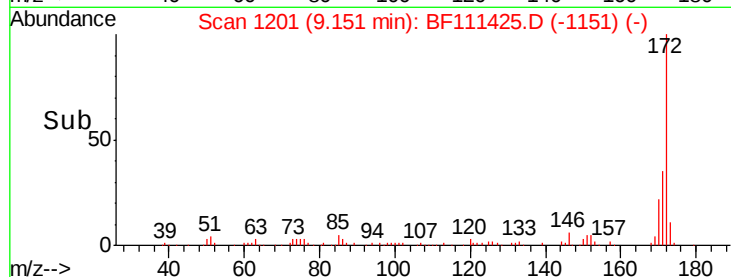
170 22.2 22.3 33.5#



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51

2,6-Dinitrotoluene

Concen: 8.153 ng

RT: 9.83 min Scan# 1316

Delta R.T. 0.21 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

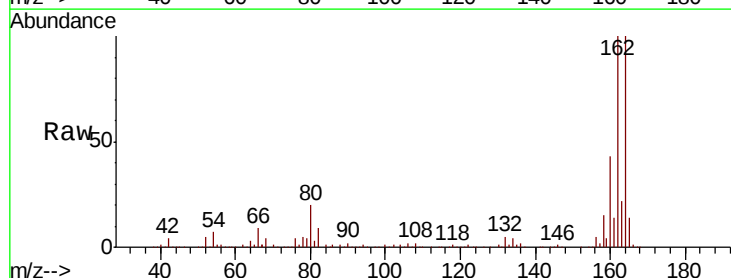
Tgt Ion:165 Resp: 40526

Ion Ratio Lower Upper

165 100

63 1.2 40.5 60.7#

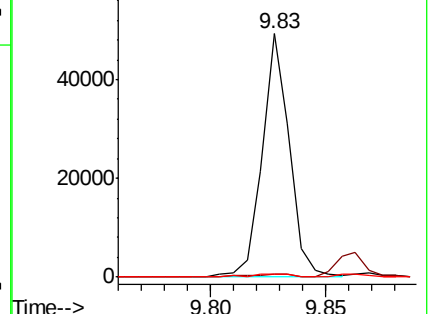
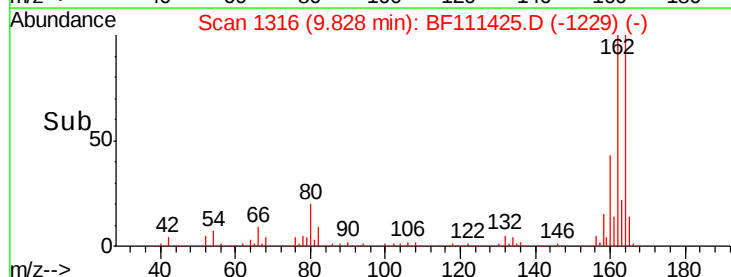
89 1.1 40.0 60.0#

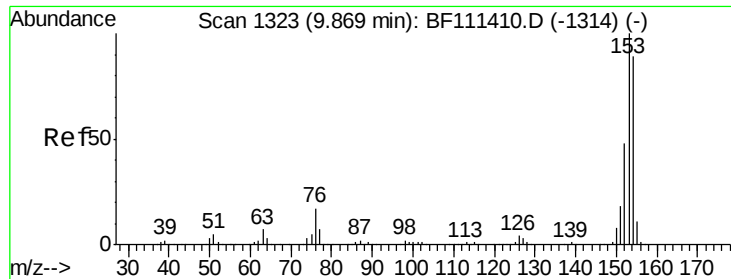


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 2.570 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

Instrument :

BNA_F

ClientSampleId :

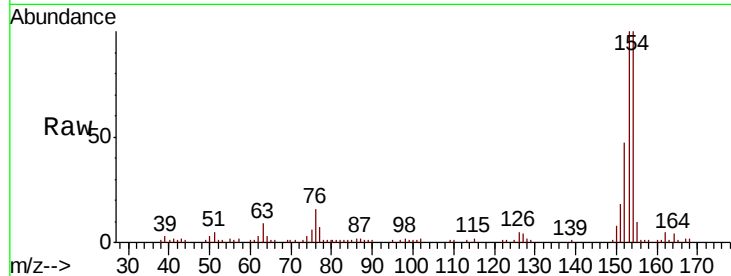
Tot Ion:154 Resp: 47627

Ion Ratio Lower Upper

154 100

153 99.9 87.8 131.8

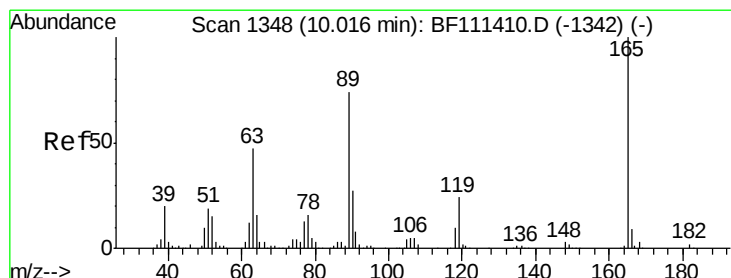
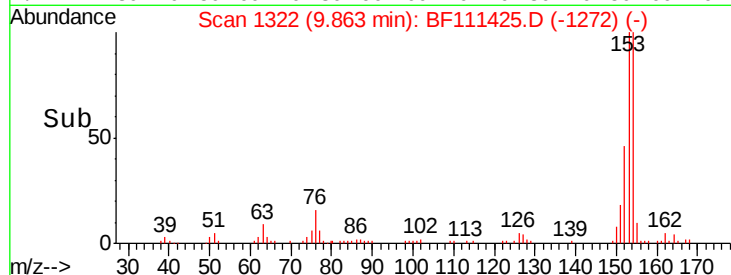
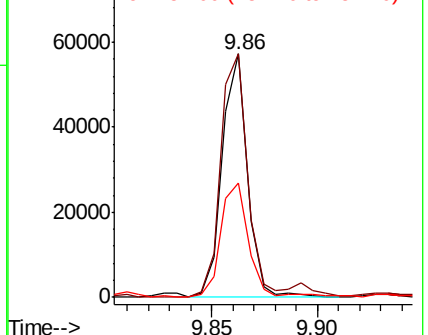
152 46.9 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

2,4-Dinitrotoluene

Concen: 6.212 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.19 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

Tgt Ion:165 Resp: 40526

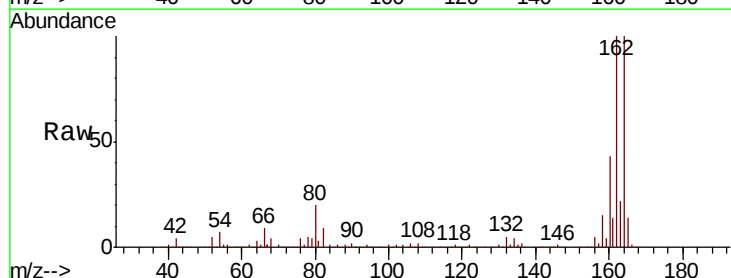
Ion Ratio Lower Upper

165 100

63 1.2 34.6 52.0#

89 1.1 56.2 84.4#

182 0.0 1.8 2.6#

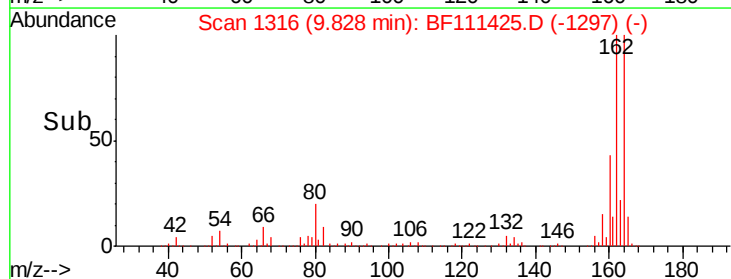
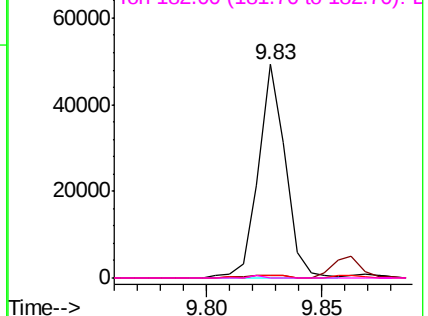


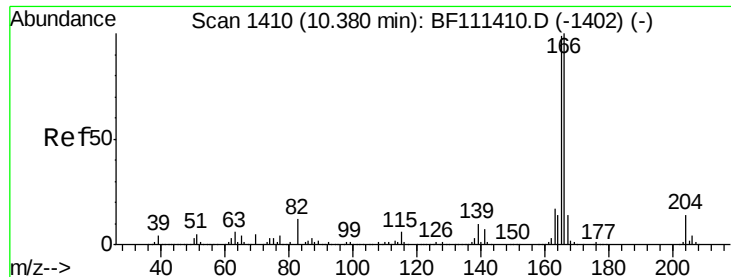
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 4.348 ng

RT: 10.37 min Scan# 1409

Delta R.T. -0.01 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

Instrument :

BNA_F

ClientSampled :

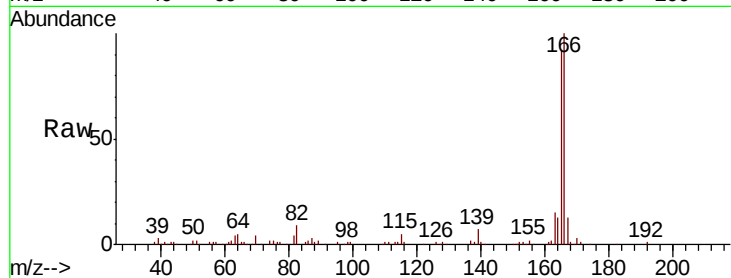
Tot Ion:166 Resp: 84816

Ion Ratio Lower Upper

166 100

165 92.3 78.4 117.6

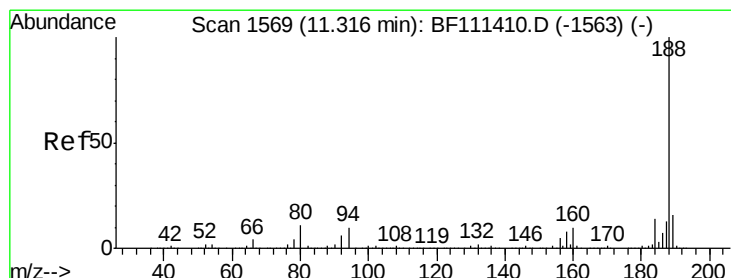
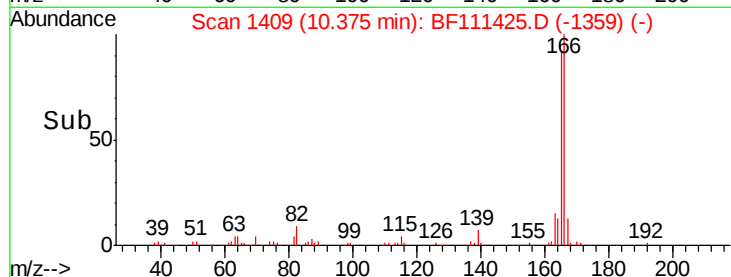
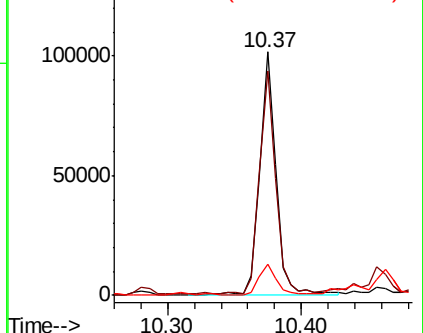
167 12.9 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

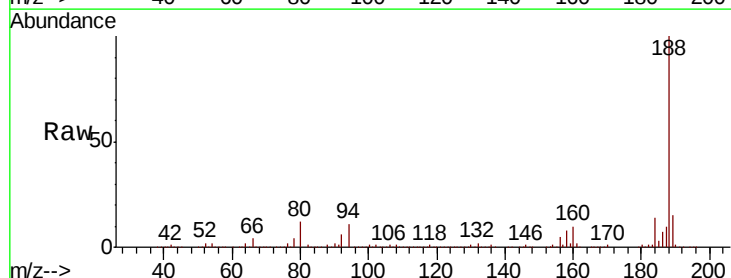
Tgt Ion:188 Resp: 460463

Ion Ratio Lower Upper

188 100

94 10.8 9.6 14.4

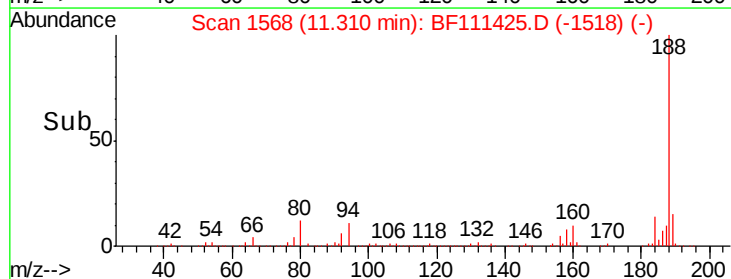
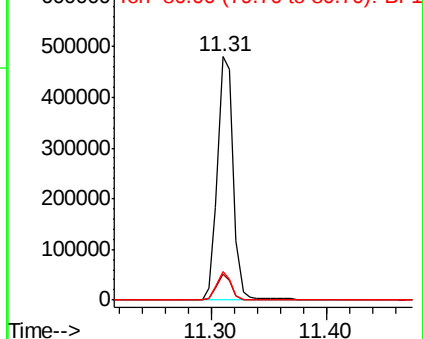
80 11.7 9.8 14.6

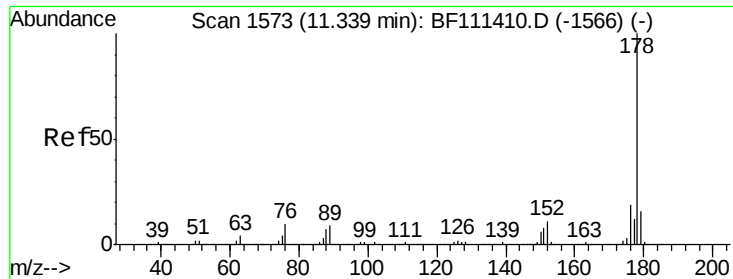


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

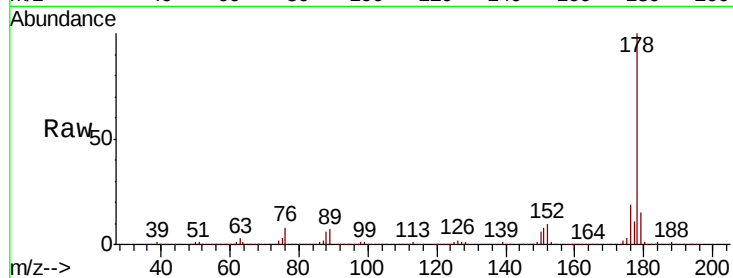




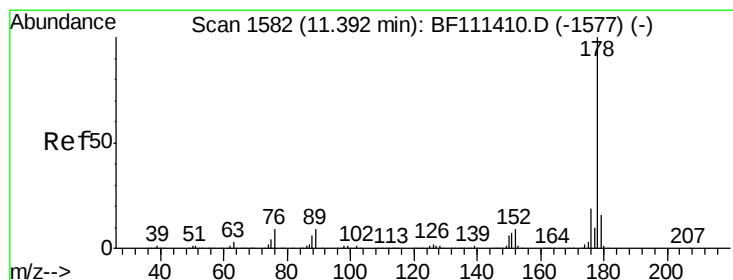
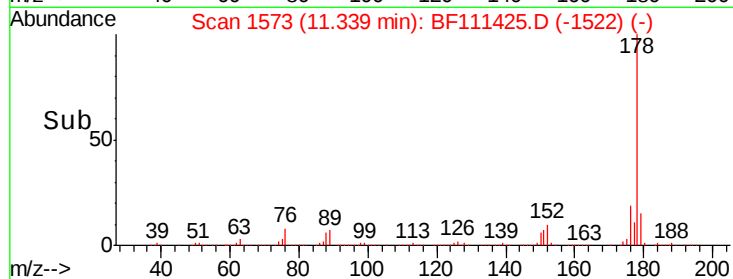
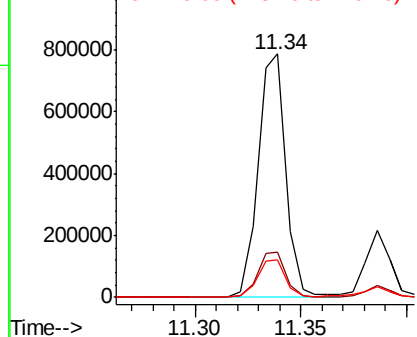
#71
Phenanthrene
Concen: 30.472 ng
RT: 11.34 min Scan# 1573
Delta R.T. 0.00 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 723014
Ion Ratio Lower Upper
178 100
176 18.8 18.1 27.1
179 15.5 14.0 21.0

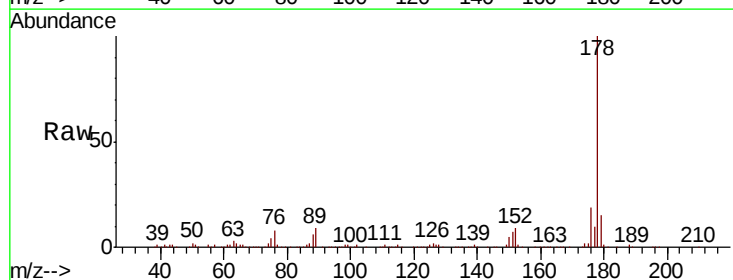


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

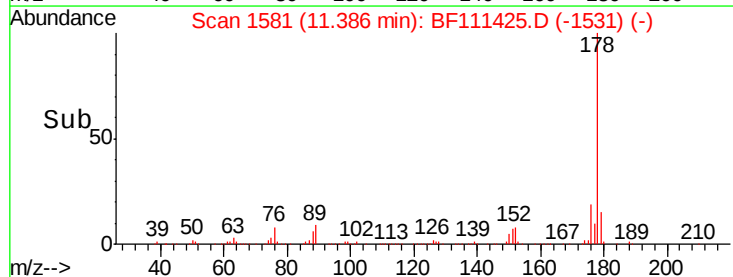
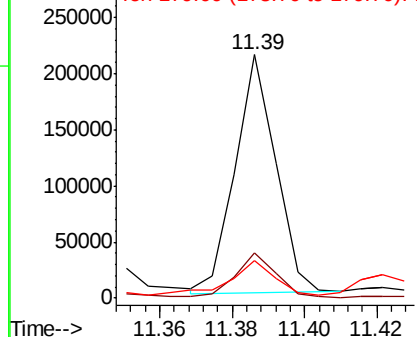


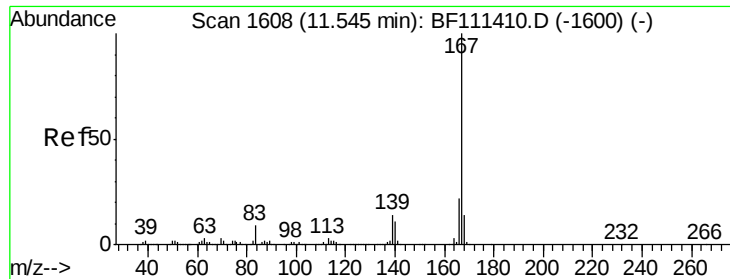
#72
Anthracene
Concen: 6.801 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion:178 Resp: 165015
Ion Ratio Lower Upper
178 100
176 18.6 17.2 25.8
179 15.5 13.8 20.8



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

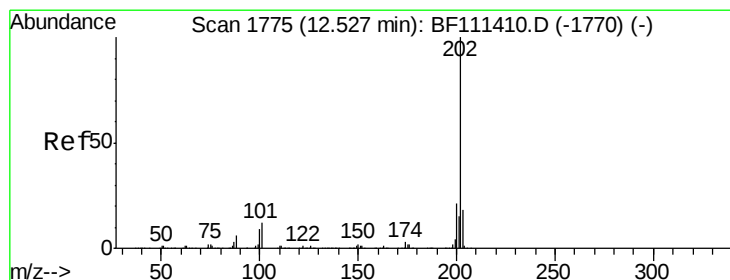
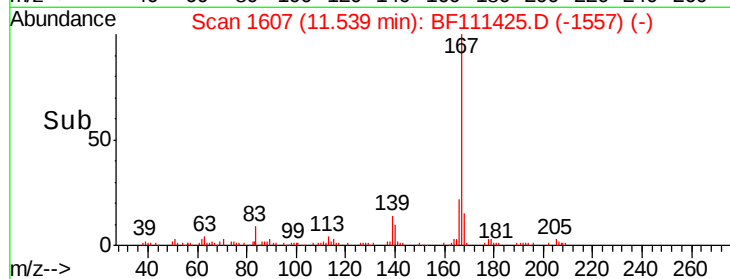
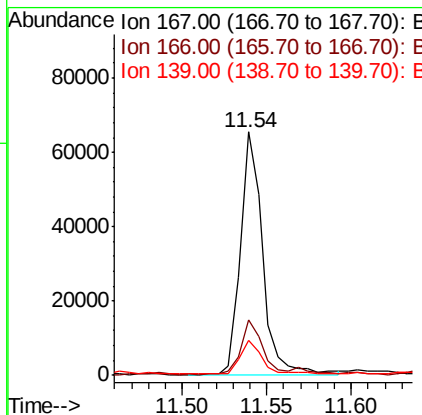
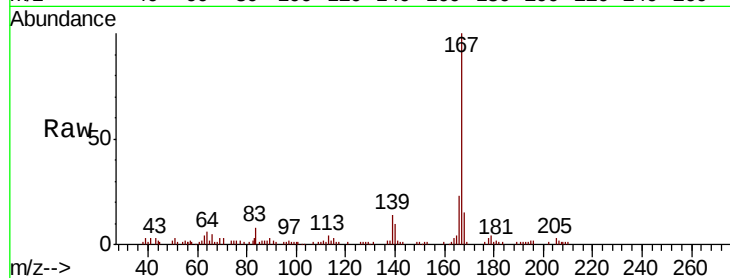




#73
 Carbazole
 Concen: 2.425 ng
 RT: 11.54 min Scan# 1607
 Delta R.T. -0.01 min
 Lab File: BF111425.D
 Acq: 14 Dec 2018 18:12

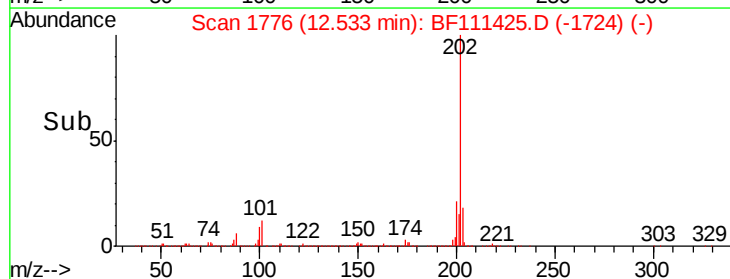
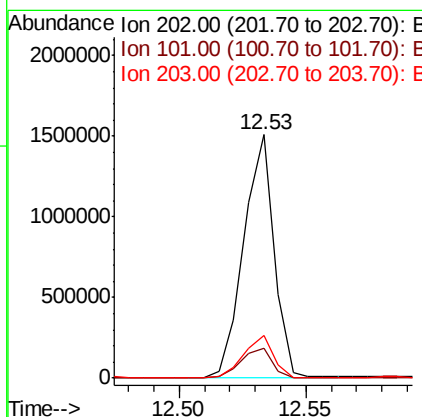
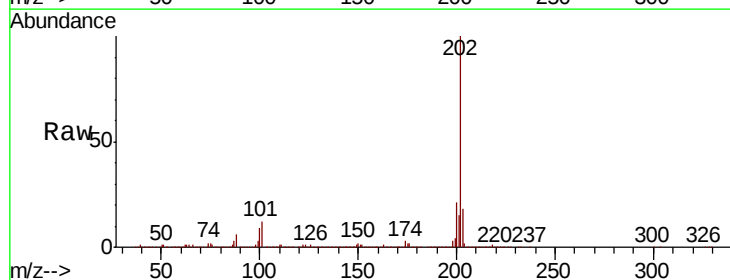
Instrument :
 BNA_F
 ClientSampleId :

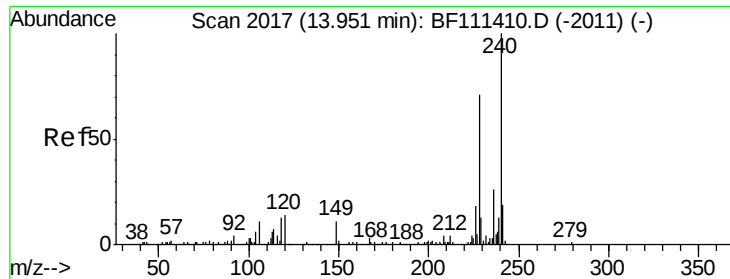
Tot Ion	Ratio	Lower	Upper
167	100		
166	23.0	19.3	28.9
139	14.2	11.9	17.9



#75
 Fluoranthene
 Concen: 54.297 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. 0.01 min
 Lab File: BF111425.D
 Acq: 14 Dec 2018 18:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	33.8
203	17.7	0.0	38.6

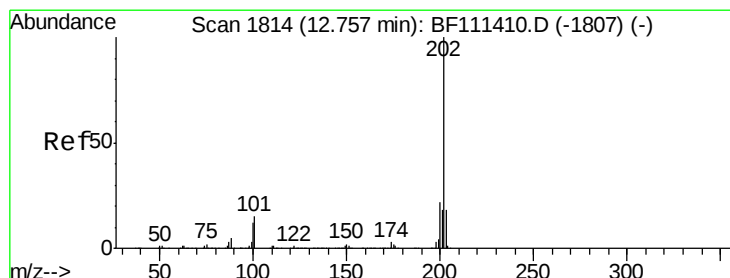
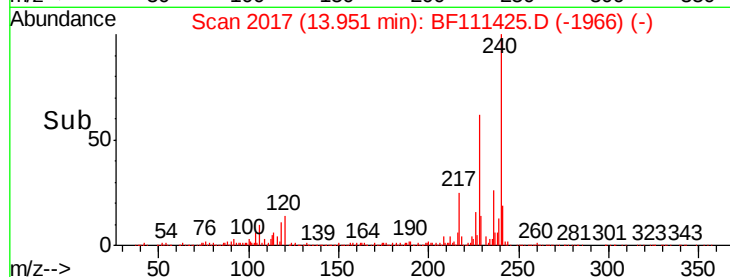
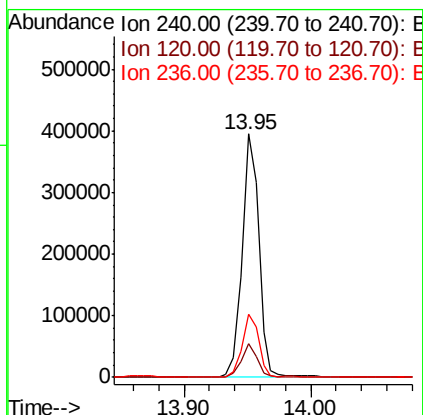
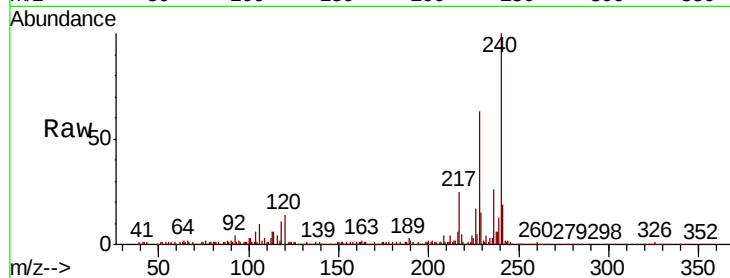




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.95 min Scan# 2017
Delta R.T. 0.00 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

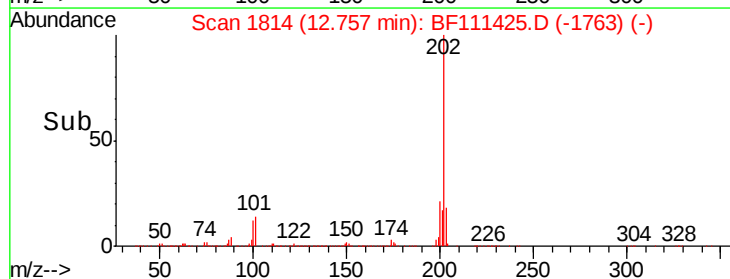
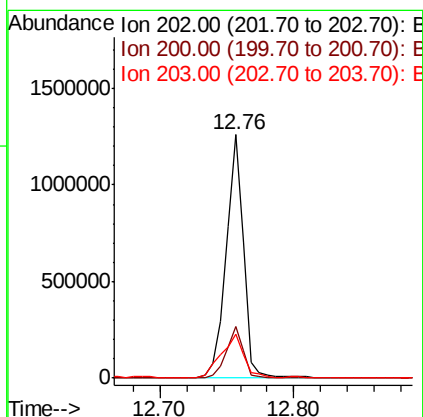
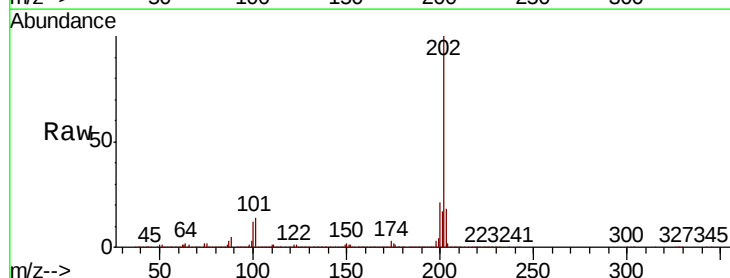
Instrument :
BNA_F
ClientSampleId :

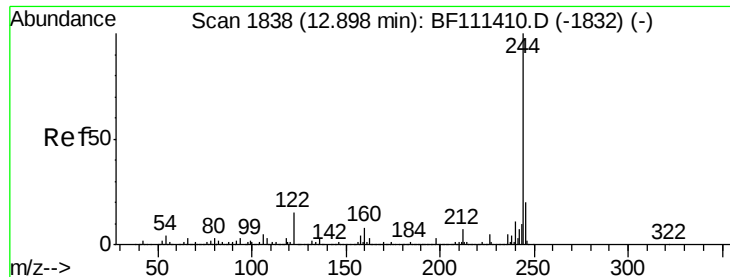
Tot Ion:240 Resp: 355973
Ion Ratio Lower Upper
240 100
120 13.9 12.2 18.2
236 25.8 20.2 30.2



#78
Pyrene
Concen: 45.876 ng
RT: 12.76 min Scan# 1814
Delta R.T. 0.00 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion:202 Resp: 1151374
Ion Ratio Lower Upper
202 100
200 21.0 19.0 28.4
203 18.0 15.2 22.8





#79

Terphenyl-d14

Concen: 4.829 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

Instrument :

BNA_F

ClientSampled :

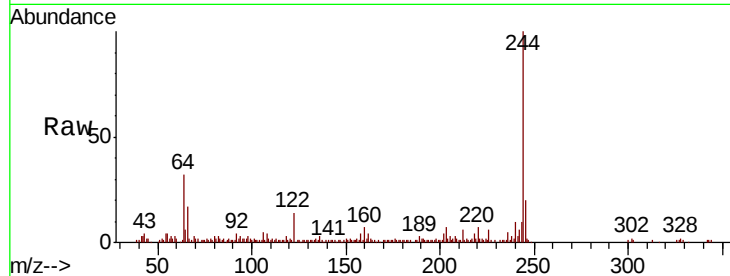
Tot Ion:244 Resp: 73210

Ion Ratio Lower Upper

244 100

212 6.1 5.7 8.5

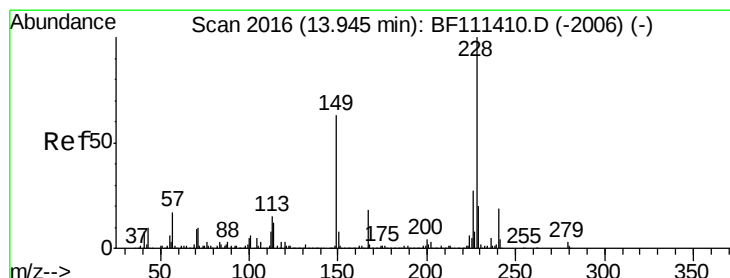
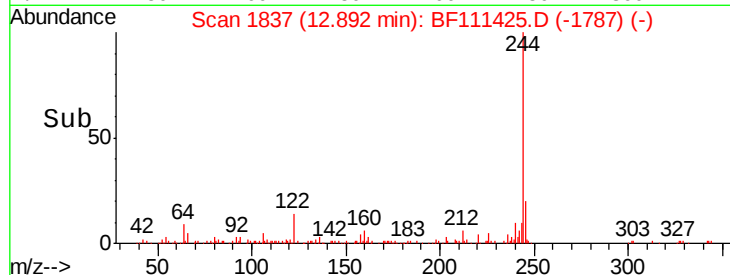
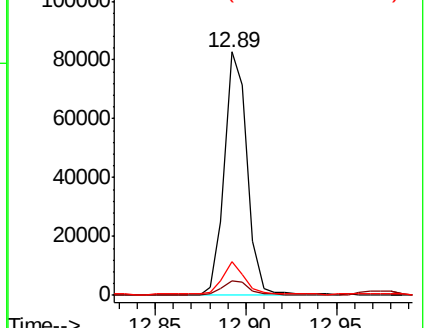
122 13.6 13.1 19.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 33.014 ng

RT: 13.94 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

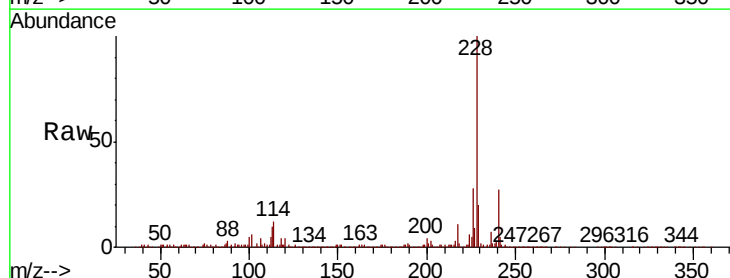
Tgt Ion:228 Resp: 639007

Ion Ratio Lower Upper

228 100

226 27.8 22.6 34.0

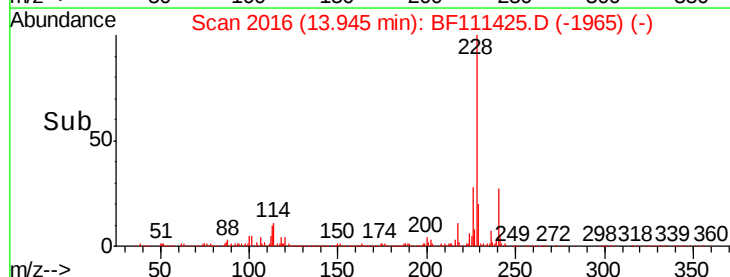
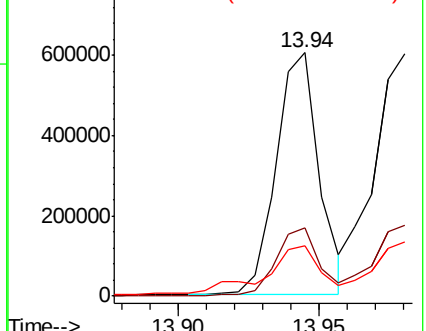
229 20.4 16.3 24.5

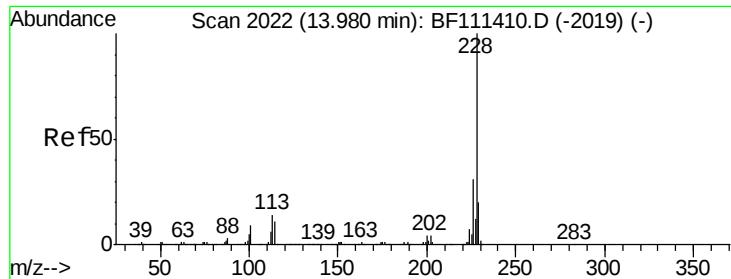


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

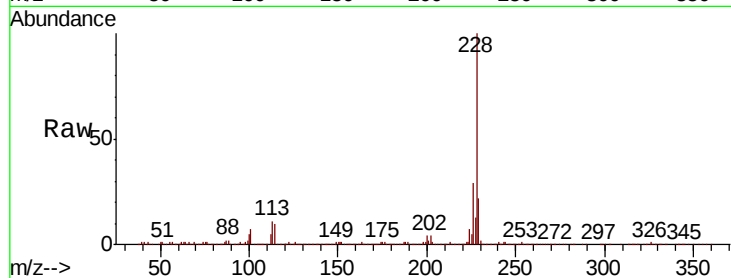




#83
Chrysene
Concen: 31.156 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.00 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	25.3	37.9
229	22.1	17.2	25.8

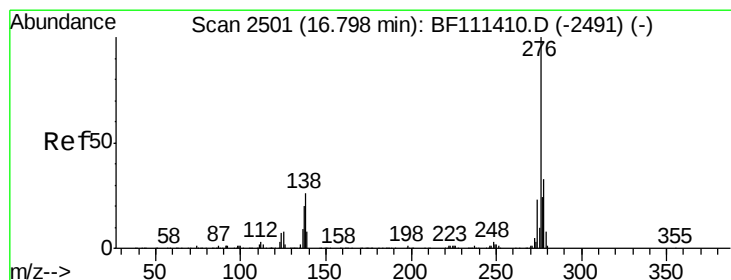
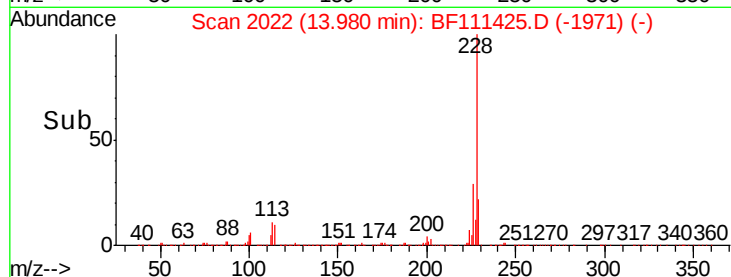
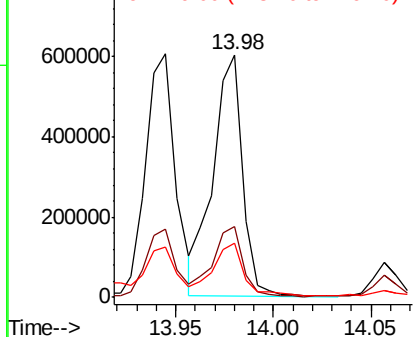


Abundance

Ion 228.00 (227.70 to 228.70): E

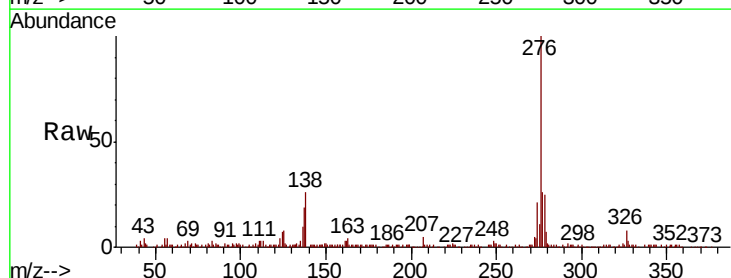
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Indeno(1,2,3-cd)pyrene
Concen: 15.624 ng
RT: 16.81 min Scan# 2503
Delta R.T. 0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.8	27.8	41.6#
277	23.8	20.1	30.1

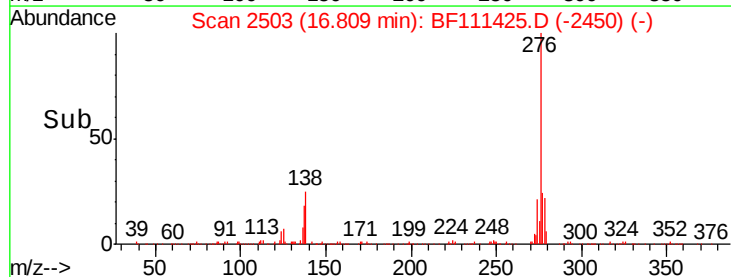
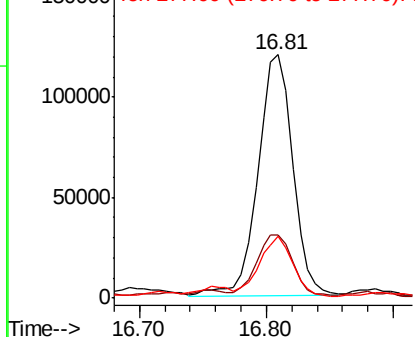


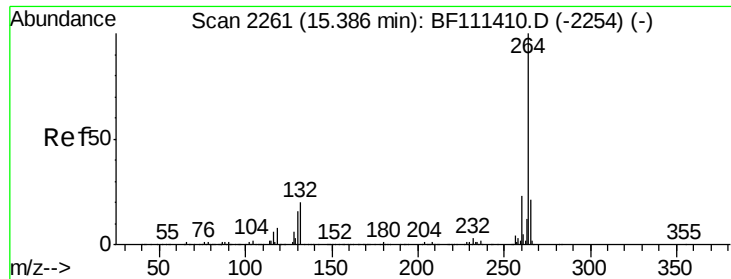
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

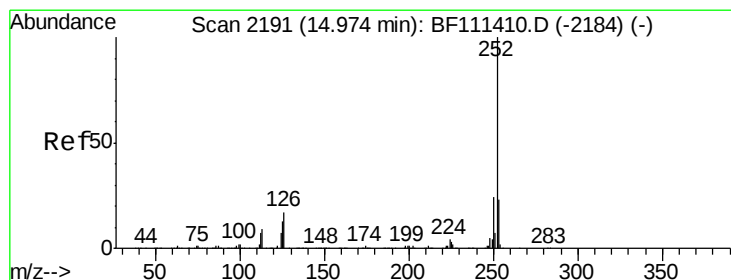
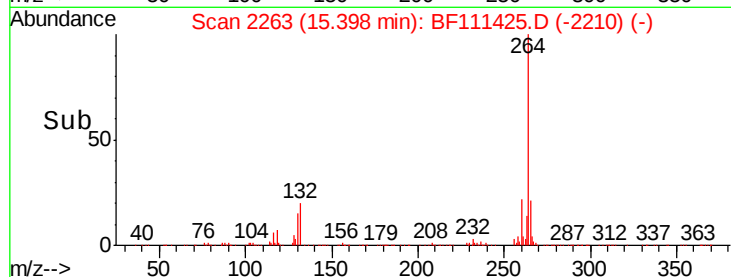
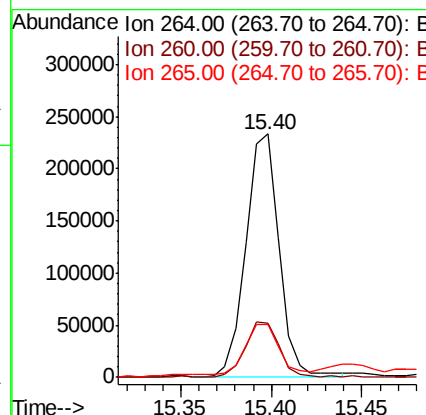
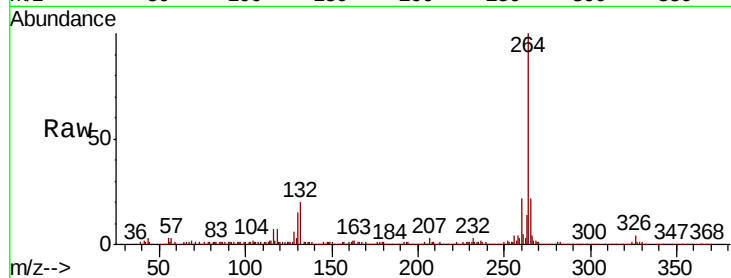




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

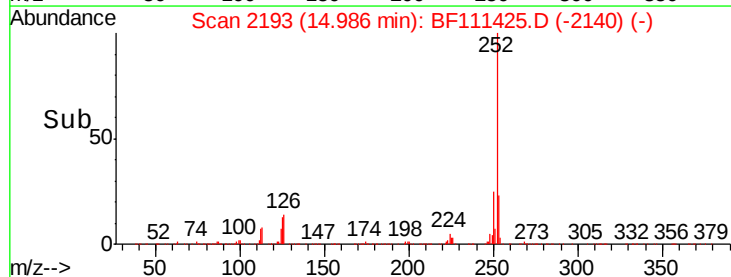
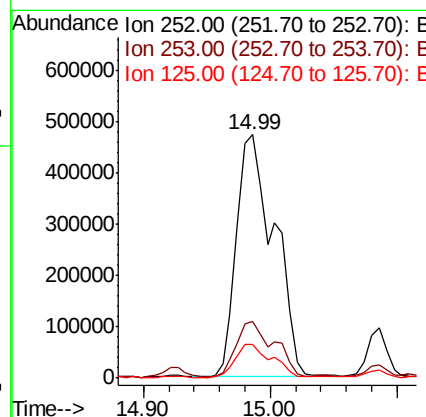
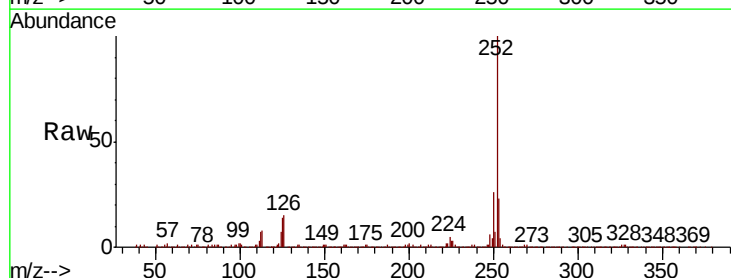
Instrument :
BNA_F
ClientSampleId :

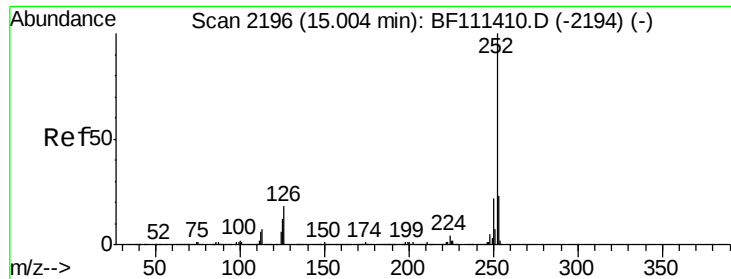
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.5	18.3	27.5
265	21.6	17.7	26.5



#88
Benzo(b)fluoranthene
Concen: 56.782 ng
RT: 14.99 min Scan# 2193
Delta R.T. 0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.2
125	13.8	10.4	15.6

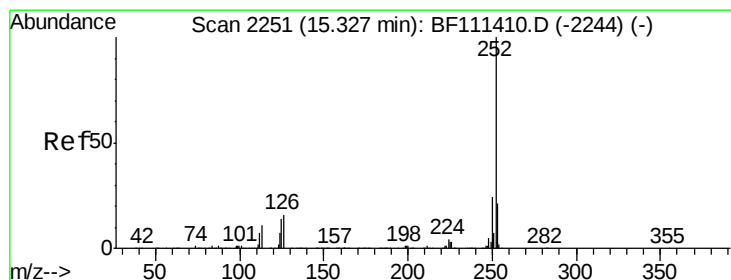
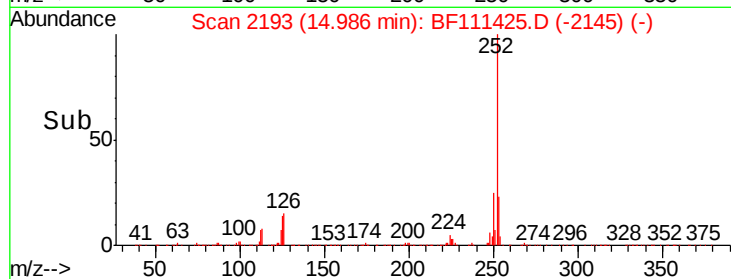
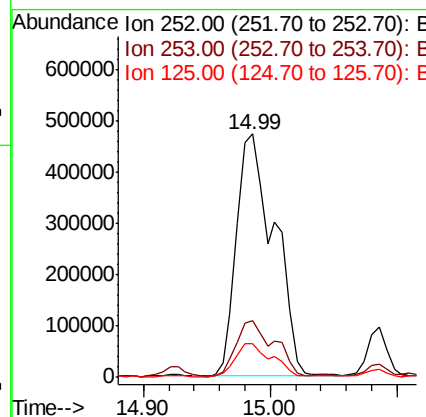
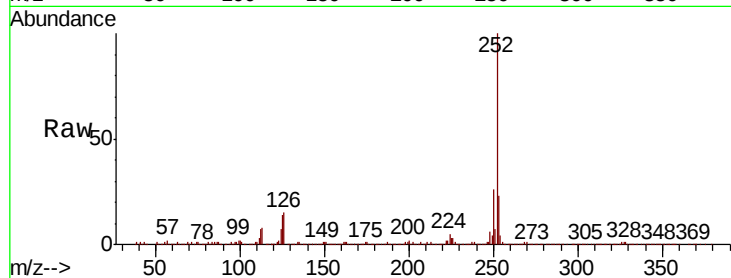




#89
Benzo(k)fluoranthene
Concen: 59.426 ng
RT: 14.99 min Scan# 2193
Delta R.T. -0.02 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

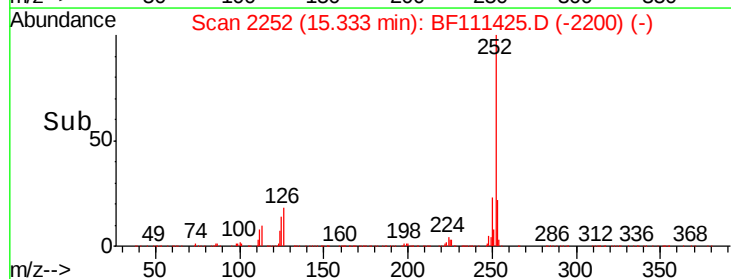
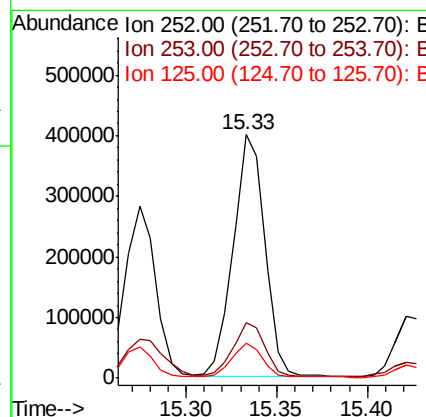
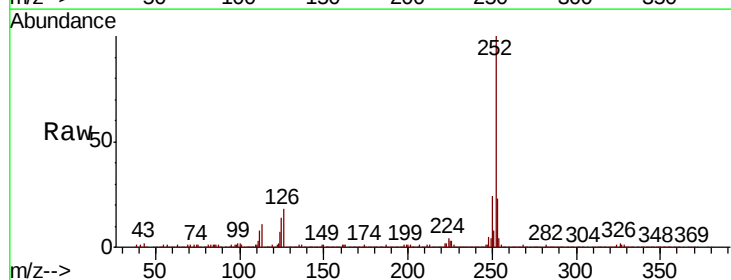
Instrument :
BNA_F
ClientSampleId :

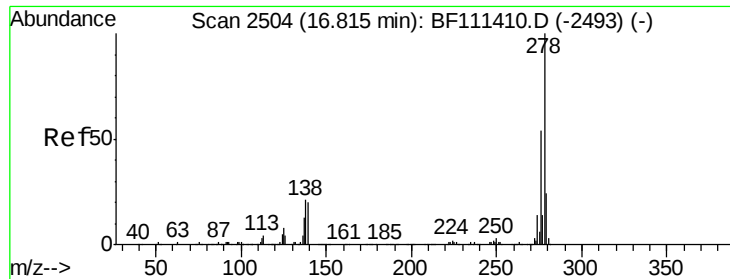
Tot Ion:252 Resp: 977692
Ion Ratio Lower Upper
252 100
253 23.4 18.1 27.1
125 13.8 9.8 14.8



#90
Benzo(a)pyrene
Concen: 31.519 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF111425.D
Acq: 14 Dec 2018 18:12

Tgt Ion:252 Resp: 489396
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.8
125 14.1 12.3 18.5





#91

Dibenzo(a,h)anthracene

Concen: 5.038 ng

RT: 16.82 min Scan# 2504

Delta R.T. 0.00 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

Instrument :

BNA_F

ClientSampleId :

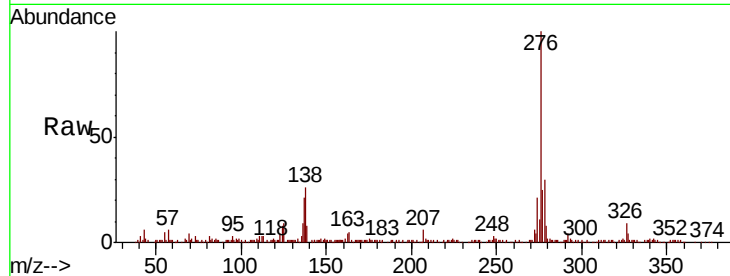
Tot Ion:278 Resp: 61711

Ion Ratio Lower Upper

278 100

139 25.8 18.2 27.4

279 27.3 19.0 28.6

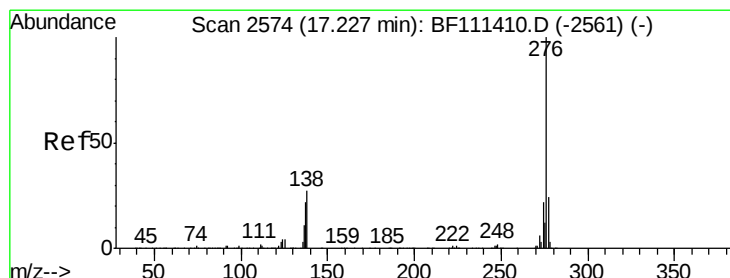
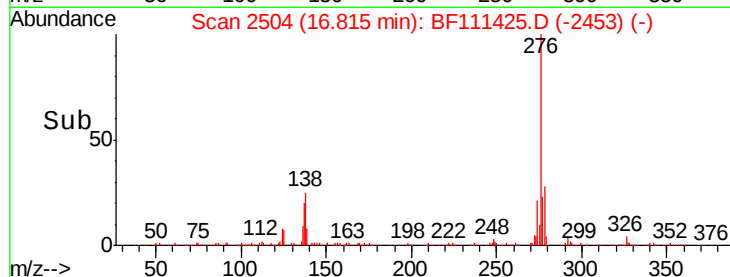
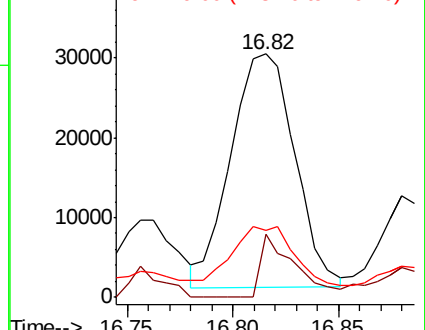


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 17.311 ng

RT: 17.23 min Scan# 2575

Delta R.T. 0.01 min

Lab File: BF111425.D

Acq: 14 Dec 2018 18:12

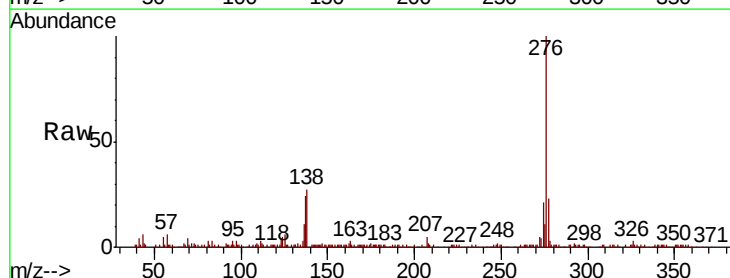
Tgt Ion:276 Resp: 208128

Ion Ratio Lower Upper

276 100

277 22.6 19.2 28.8

138 26.7 24.9 37.3



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

