

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF080519\
 Data File : BF115996.D
 Acq On : 5 Aug 2019 22:41
 Operator : HP/JU
 Sample : K4156-13
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR-200035

Quant Time: Aug 06 01:39:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	130419	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	502740	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	268046	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	439325	20.00	ng	-0.02
76) Chrysene-d12	14.00	240	272167	20.00	ng	-0.02
87) Perylene-d12	15.46	264	339759	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	597782	76.73	ng	0.00
7) Phenol-d6	6.47	99	793125	80.69	ng	-0.01
23) Nitrobenzene-d5	7.40	82	493686	56.68	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	193558	74.48	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	925914	64.70	ng	-0.02
79) Terphenyl-d14	12.94	244	876895	67.89	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.40	70	66032	10.841	ng	Qvalue # 79
25) Isophorone	7.40	82	493682	29.644	ng	# 66
50) Dimethylphthalate	9.59	163	69012	3.781	ng	99
52) Acenaphthene	9.91	154	33327	2.364	ng	97
57) 2,4-Dinitrotoluene	9.87	165	36230	6.861	ng	# 25
58) Fluorene	10.43	166	32860	2.083	ng	96
71) Phenanthrene	11.39	178	276435	12.308	ng	98
72) Anthracene	11.39	178	276435	12.162	ng	99
75) Fluoranthene	12.58	202	554577	23.586	ng	100
78) Pyrene	12.81	202	438597	21.378	ng	98
81) Benzo(a)anthracene	13.99	228	173144	9.953	ng	100
83) Chrysene	14.03	228	193881	11.480	ng	98
86) Indeno(1,2,3-cd)pyrene	16.93	276	143548	10.120	ng	95
88) Benzo(b)fluoranthene	15.04	252	377246	19.203	ng	# 97
89) Benzo(k)fluoranthene	15.04	252	377246	19.715	ng	99
90) Benzo(a)pyrene	15.40	252	171993	9.794	ng	98
91) Dibenzo(a,h)anthracene	16.93	278	34075	2.242	ng	# 82
92) Benzo(g,h,i)perylene	17.37	276	136471	9.141	ng	100

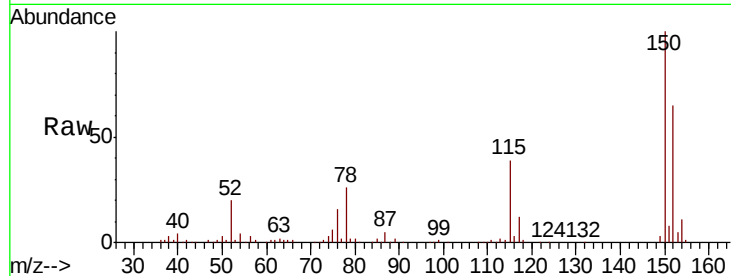
(#) = qualifier out of range (m) = manual integration (+) = signals summed



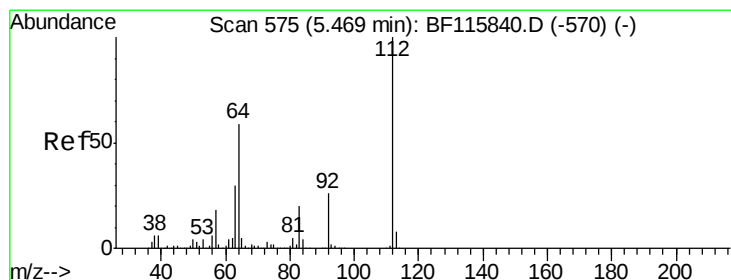
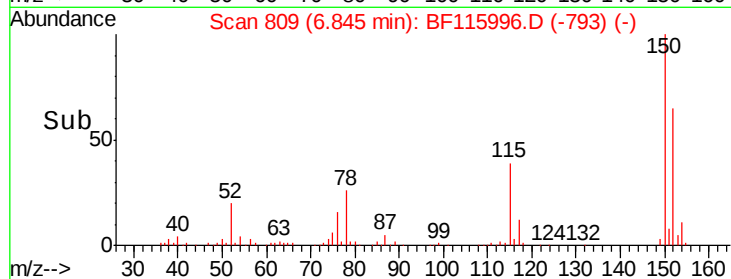
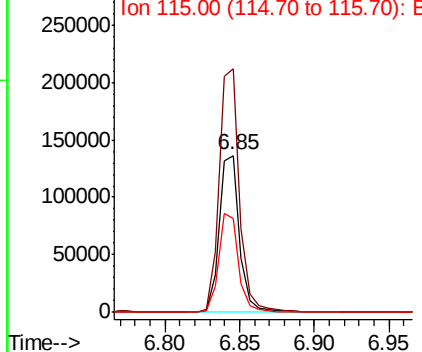
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF115996.D
 Acq: 5 Aug 2019 22:41

Instrument :
 BNA_F
 ClientSampleId :
 RBR-200035

Tgt Ion:152 Resp: 130419
 Ion Ratio Lower Upper
 152 100
 150 154.9 127.4 191.0
 115 59.8 51.8 77.8

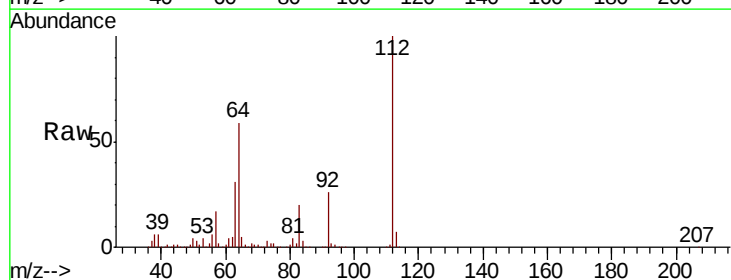


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

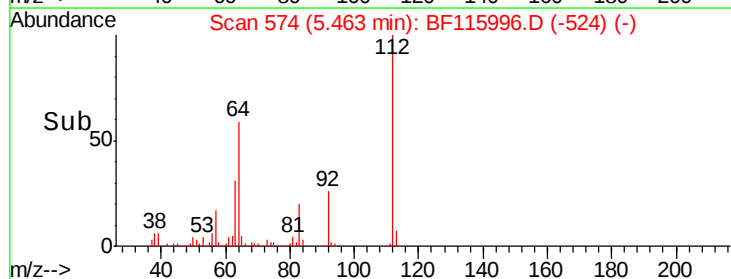
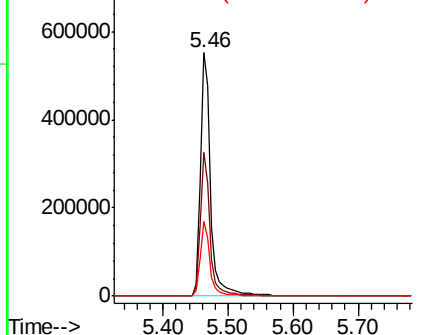


#5
 2-Fluorophenol
 Concen: 76.731 ng
 RT: 5.46 min Scan# 574
 Delta R.T. -0.01 min
 Lab File: BF115996.D
 Acq: 5 Aug 2019 22:41

Tgt Ion:112 Resp: 597782
 Ion Ratio Lower Upper
 112 100
 64 58.9 46.8 70.2
 63 30.7 24.2 36.2



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: 80.691 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

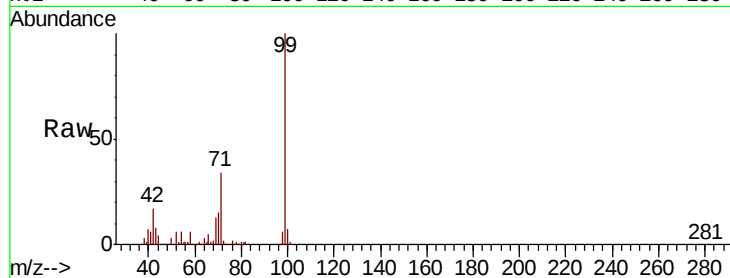
Tgt Ion: 99 Resp: 793125

Ion Ratio Lower Upper

99 100

42 16.9 13.8 20.6

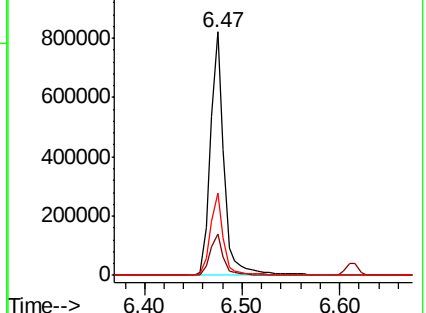
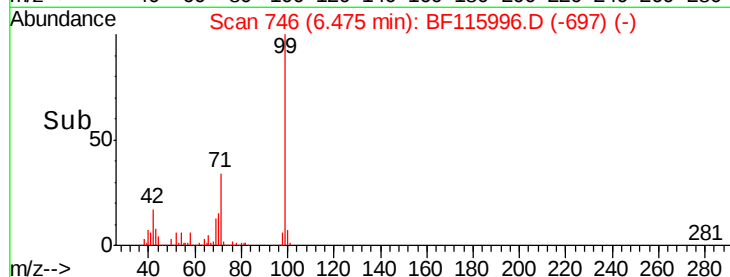
71 33.8 27.1 40.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 10.841 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Tgt Ion: 70 Resp: 66032

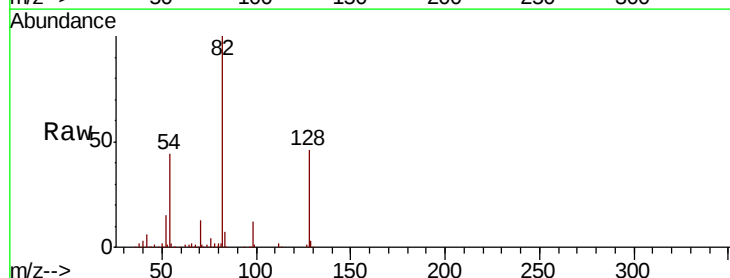
Ion Ratio Lower Upper

70 100

42 44.0 41.8 62.8

101 0.0 7.7 11.5#

130 2.4 17.8 26.6#

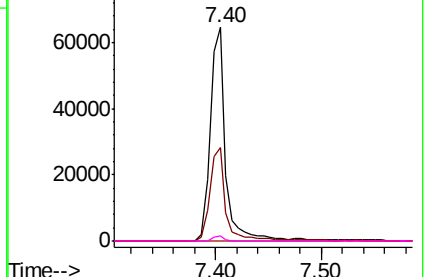
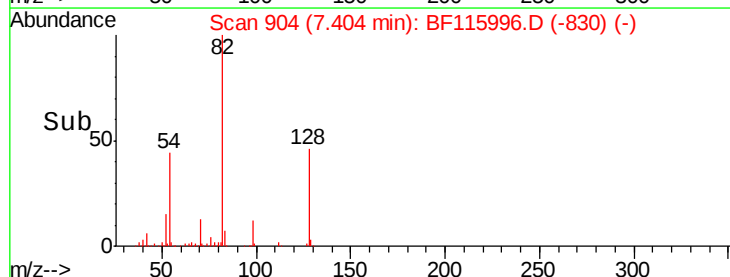


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

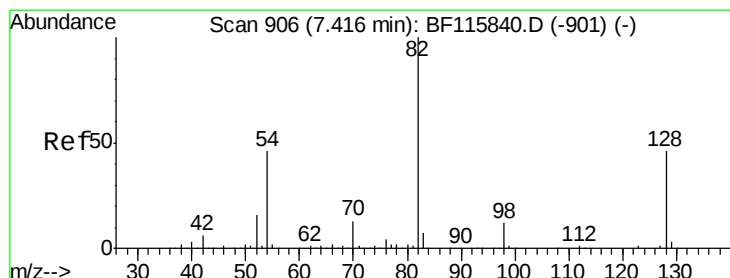
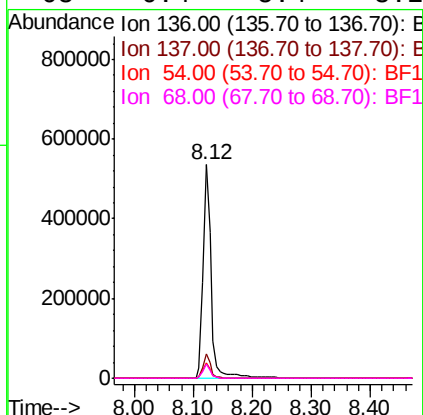
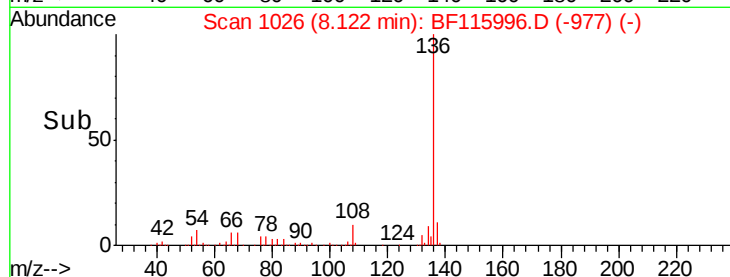
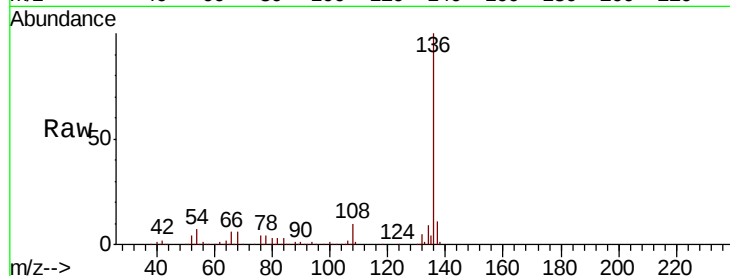




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

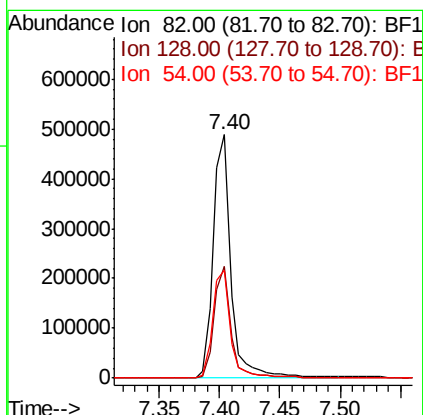
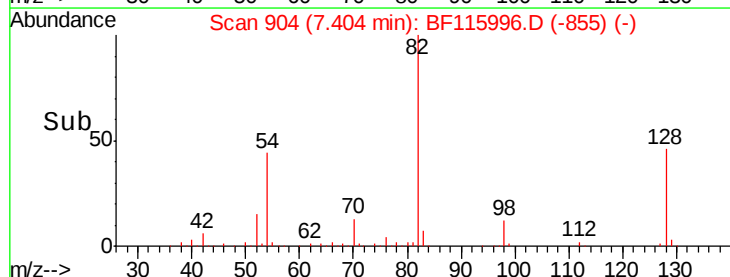
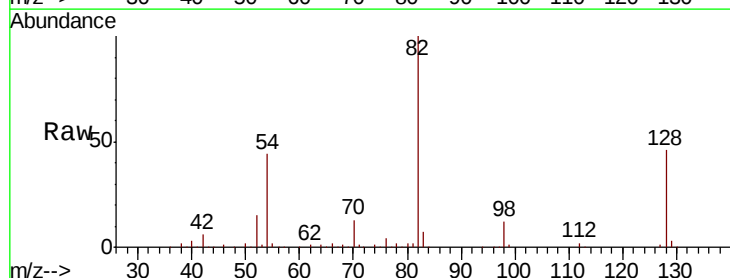
Instrument :
BNA_F
ClientSampleId :
RBR-200035

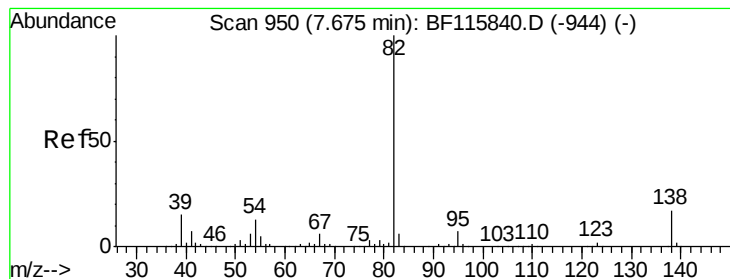
Tgt Ion:	136	Resp:	502740
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.2	6.1	9.1
68	6.4	5.4	8.2



#23
Nitrobenzene-d5
Concen: 56.684 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Tgt Ion:	82	Resp:	493686
Ion	Ratio	Lower	Upper
82	100		
128	46.1	36.6	55.0
54	44.4	36.6	55.0





#25

Isophorone

Concen: 29.644 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

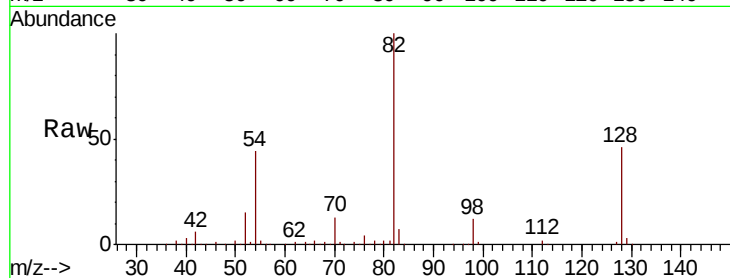
Tgt Ion: 82 Resp: 493682

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

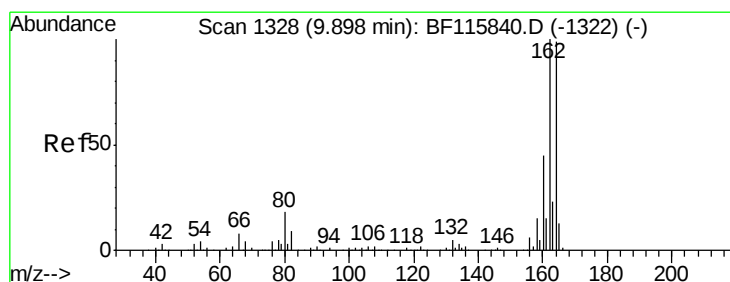
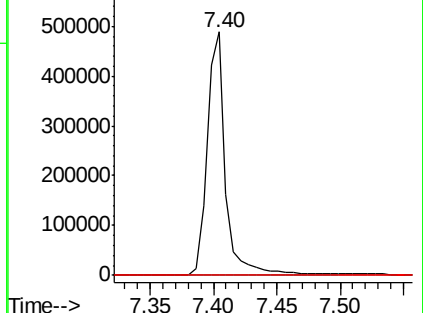
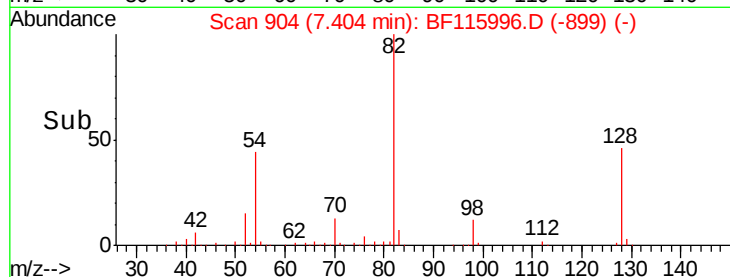
138 0.0 13.9 20.9#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

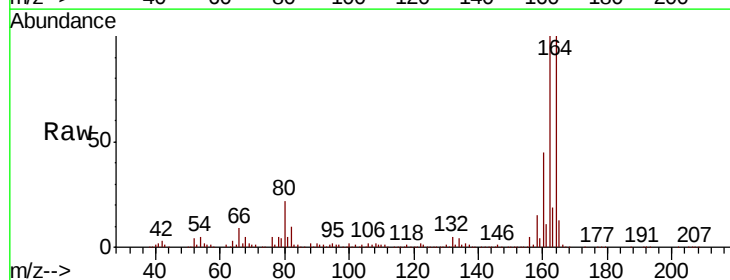
Tgt Ion: 164 Resp: 268046

Ion Ratio Lower Upper

164 100

162 100.4 80.8 121.2

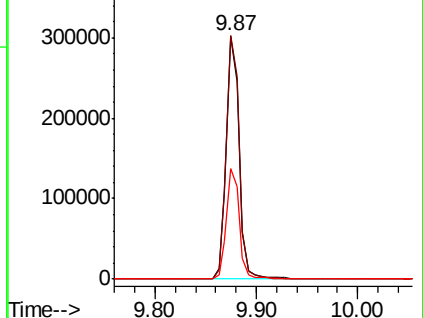
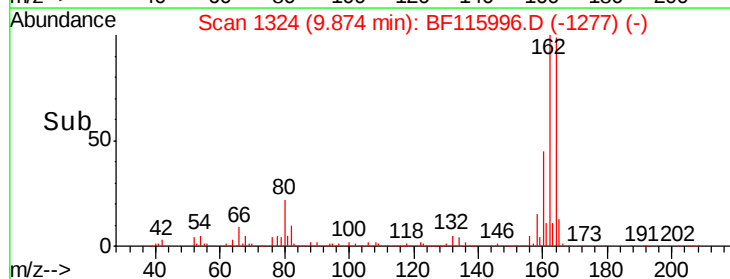
160 45.5 36.2 54.4



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: 74.480 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

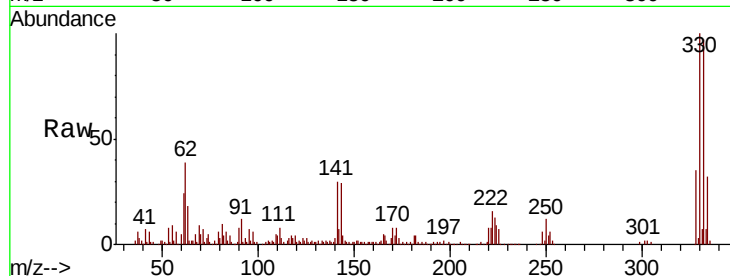
Tgt Ion:330 Resp: 193558

Ion Ratio Lower Upper

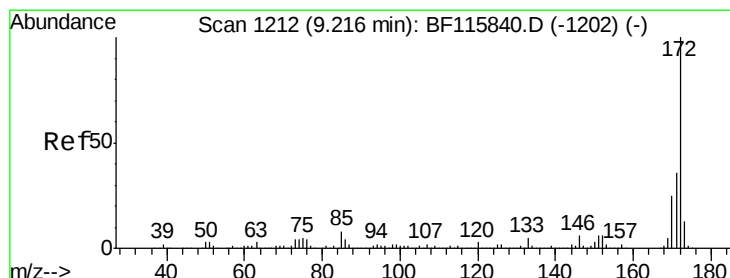
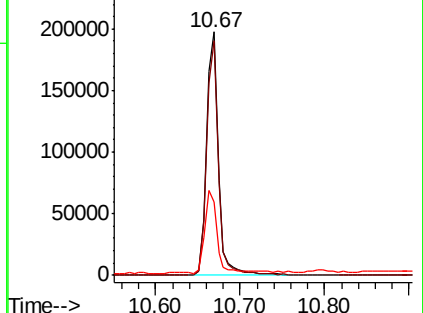
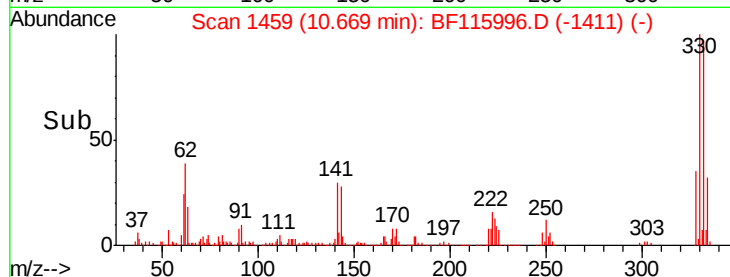
330 100

332 95.3 77.7 116.5

141 35.1 28.1 42.1



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: 64.702 ng

RT: 9.20 min Scan# 1209

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

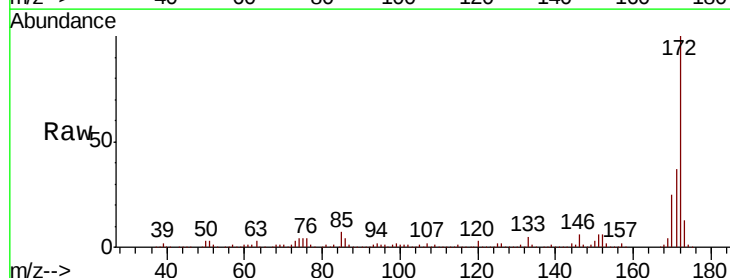
Tgt Ion:172 Resp: 925914

Ion Ratio Lower Upper

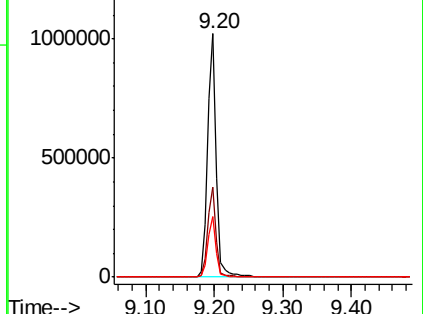
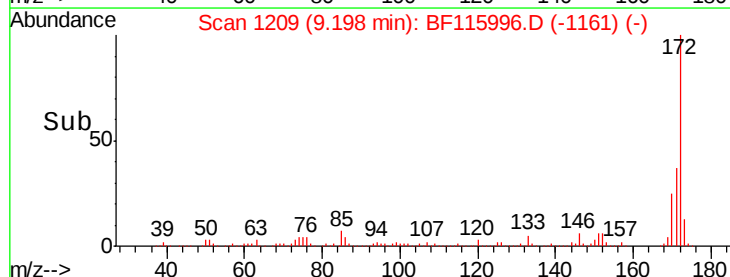
172 100

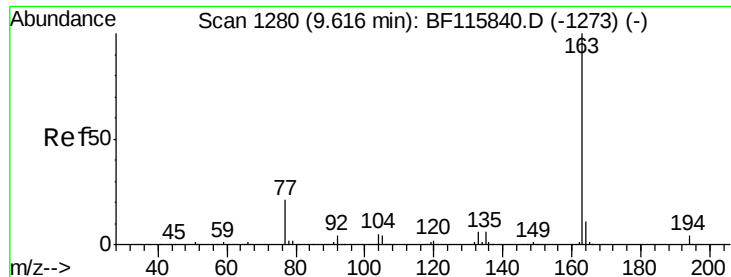
171 37.0 29.1 43.7

170 25.0 20.1 30.1



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

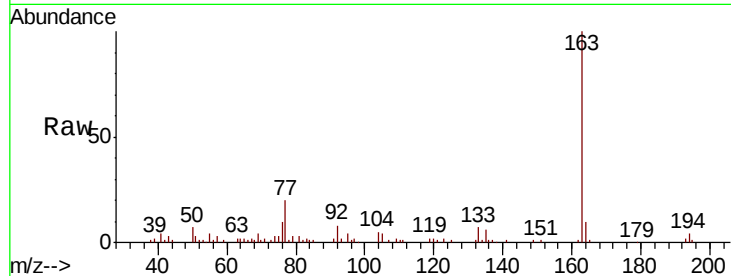




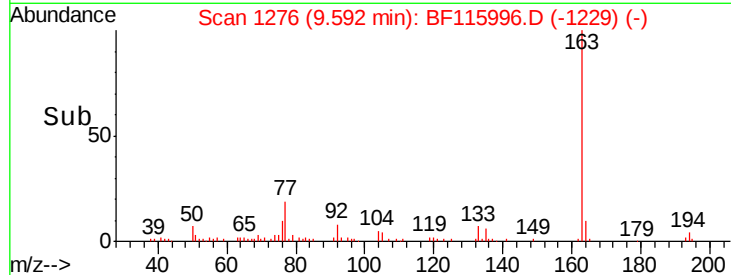
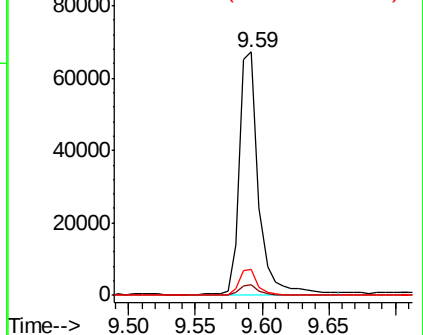
#50
Dimethylphthalate
Concen: 3.781 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Instrument :
BNA_F
ClientSampleId :
RBR-200035

Tgt Ion:163 Resp: 69012
Ion Ratio Lower Upper
163 100
194 4.4 3.0 4.6
164 10.4 8.4 12.6

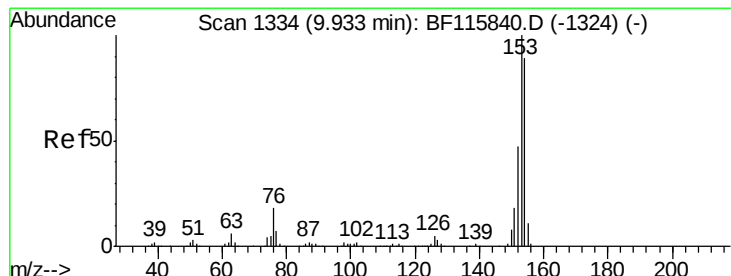


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

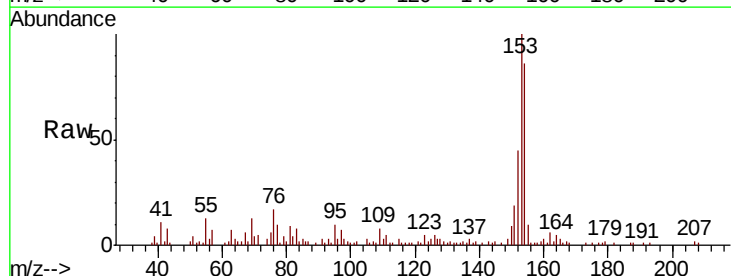
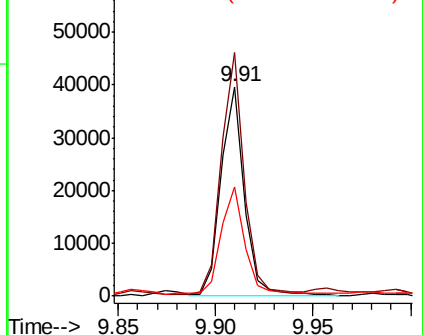


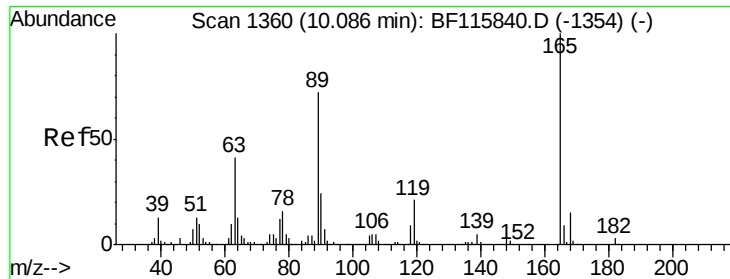
#52
Acenaphthene
Concen: 2.364 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.02 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Tgt Ion:154 Resp: 33327
Ion Ratio Lower Upper
154 100
153 116.4 90.1 135.1
152 52.3 42.6 63.8



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: 6.861 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.21 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

Tgt Ion:165 Resp: 36230

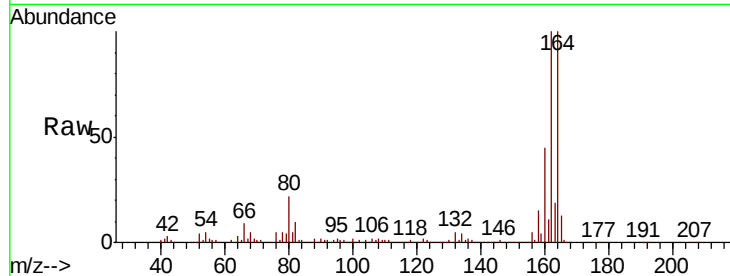
Ion Ratio Lower Upper

165 100

63 1.5 33.2 49.8#

89 1.5 57.3 85.9#

182 0.0 2.1 3.1#

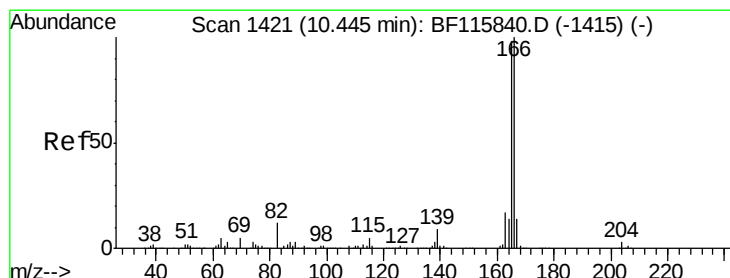
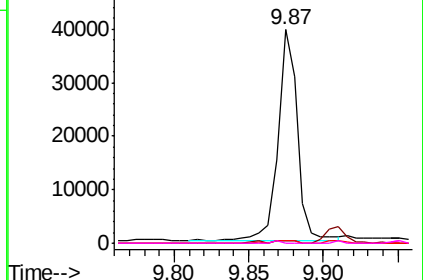
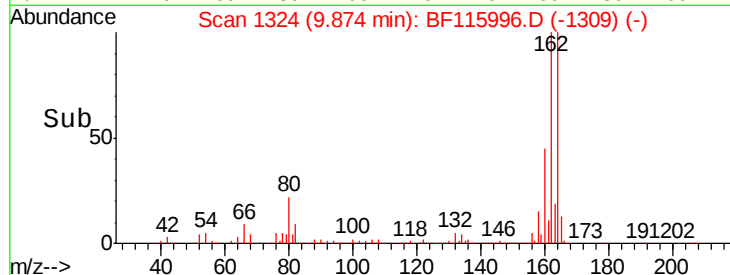


Abundance Ion 165.00 (164.70 to 165.70): E

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: 2.083 ng

RT: 10.43 min Scan# 1418

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

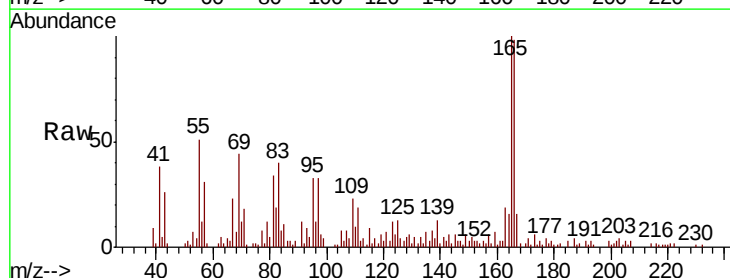
Tgt Ion:166 Resp: 32860

Ion Ratio Lower Upper

166 100

165 101.9 78.6 118.0

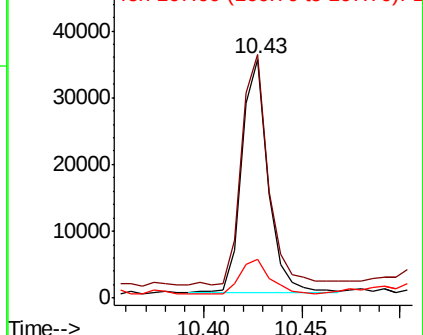
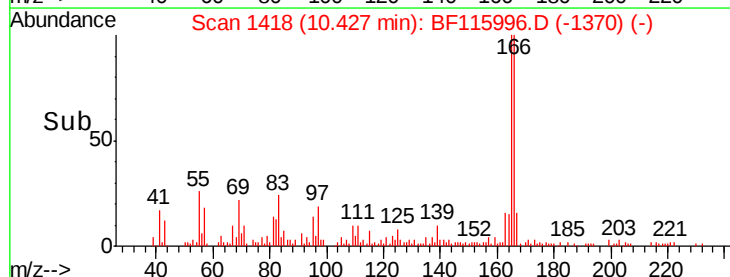
167 16.0 10.9 16.3

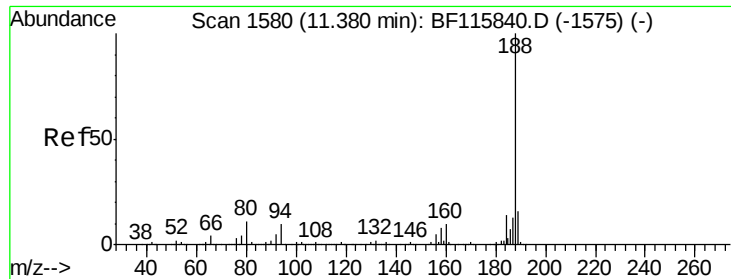


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

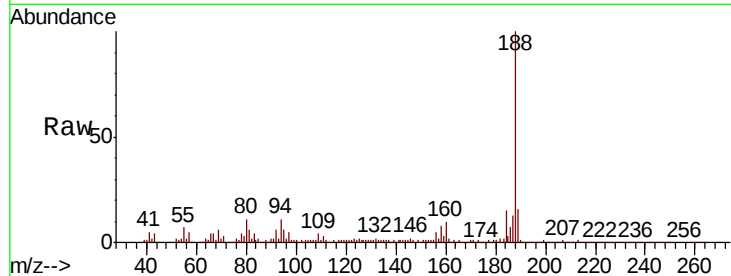
Tgt Ion:188 Resp: 439325

Ion Ratio Lower Upper

188 100

94 11.1 8.0 12.0

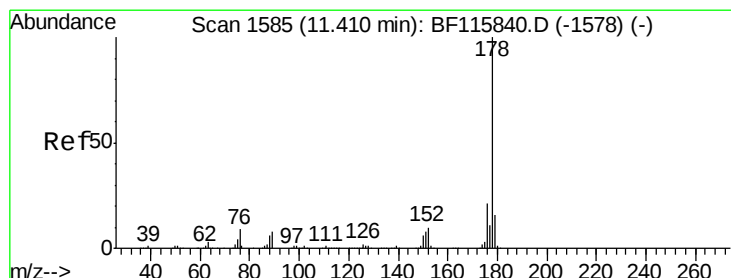
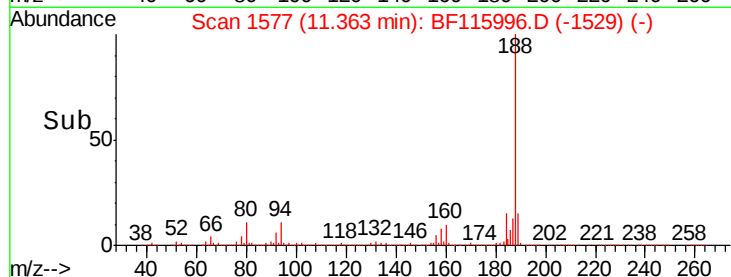
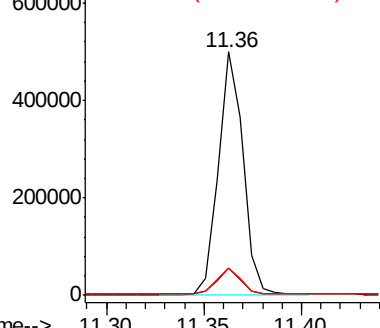
80 11.5 8.6 12.8



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: 12.308 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

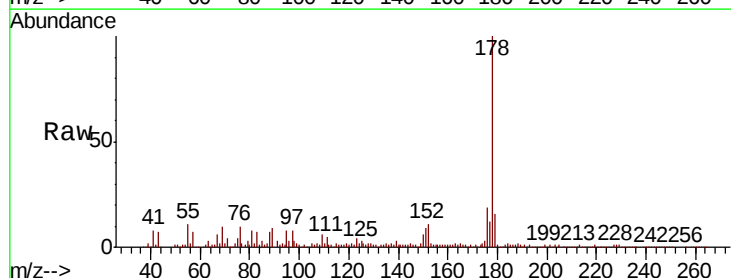
Tgt Ion:178 Resp: 276435

Ion Ratio Lower Upper

178 100

176 19.5 16.5 24.7

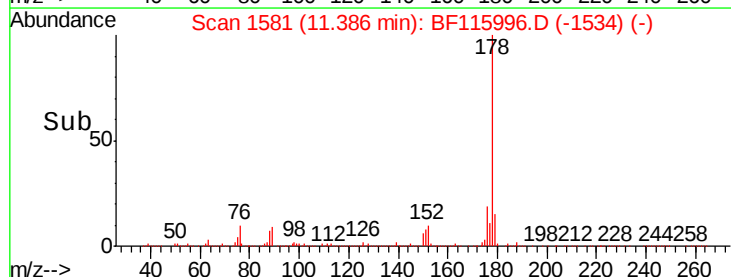
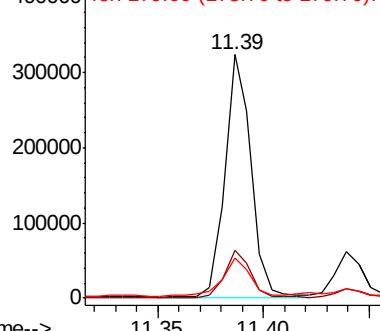
179 16.5 12.6 18.8

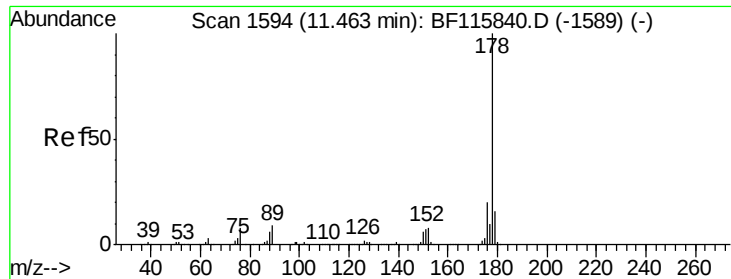


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 12.162 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.08 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

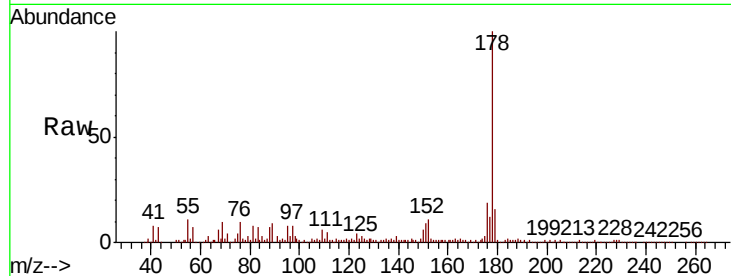
Tgt Ion:178 Resp: 276435

Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

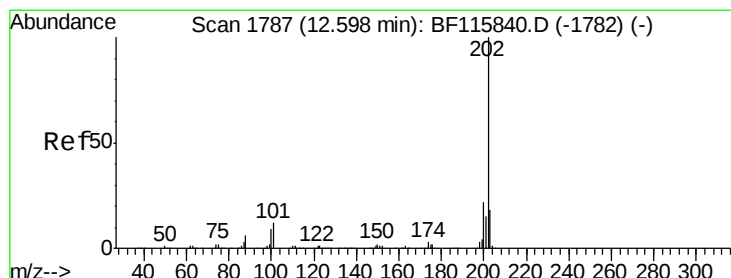
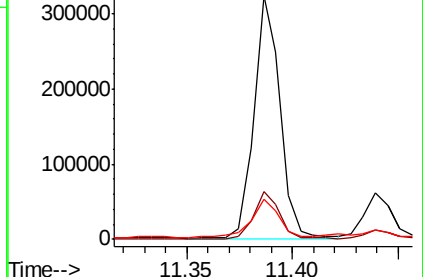
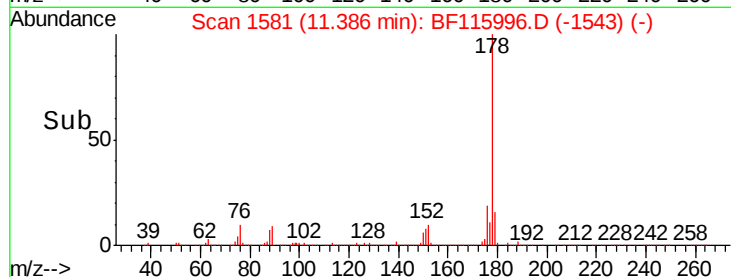
179 16.5 12.4 18.6



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



#75

Fluoranthene

Concen: 23.586 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

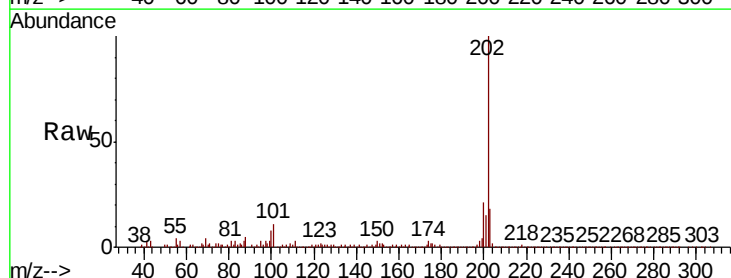
Tgt Ion:202 Resp: 554577

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.5

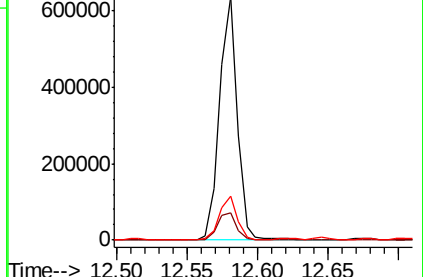
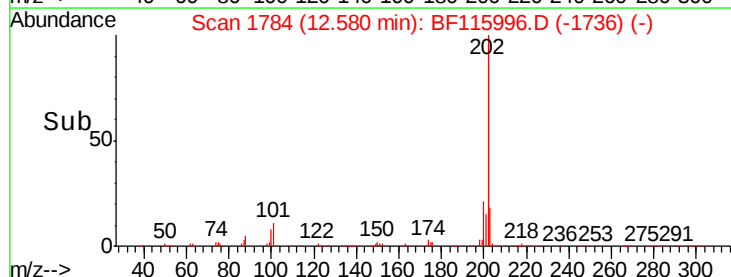
203 17.9 0.0 37.9

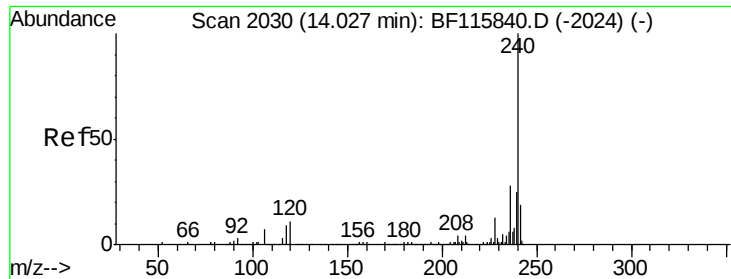


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

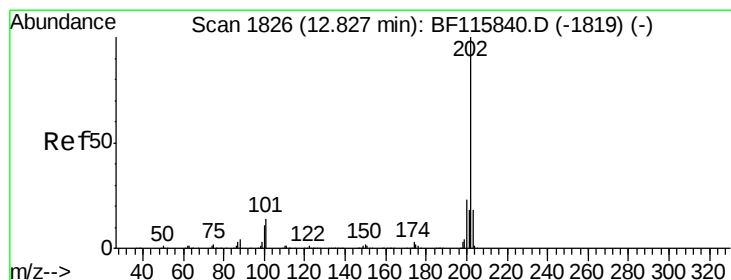
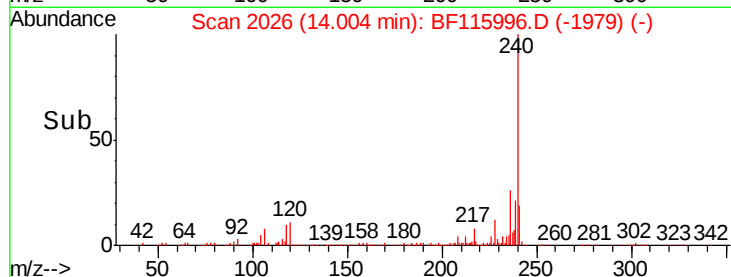
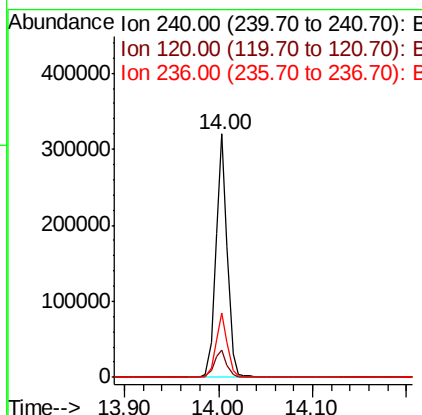
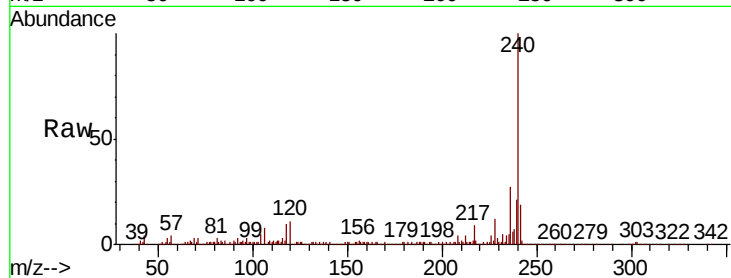




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.02 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

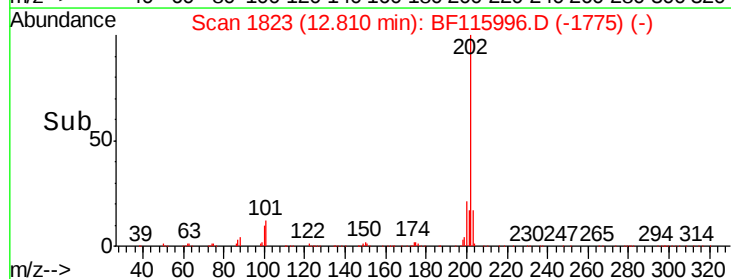
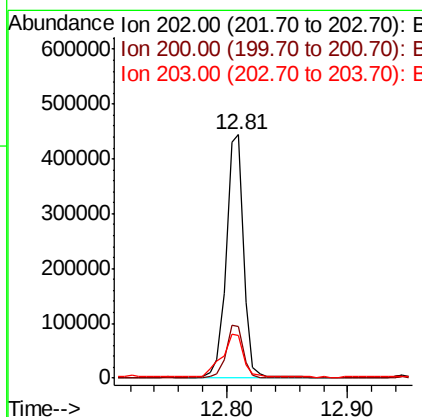
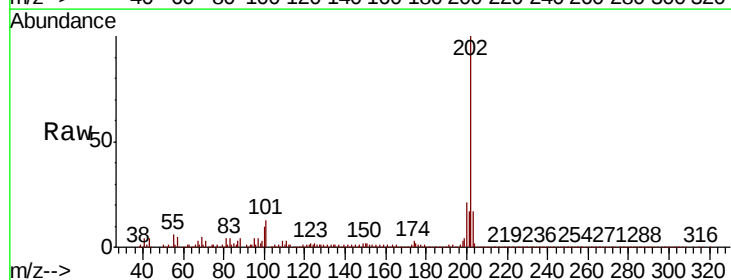
Instrument :
BNA_F
ClientSampleId :
RBR-200035

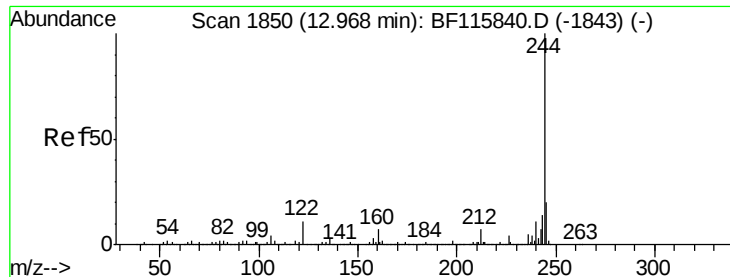
Tgt Ion:240 Resp: 272167
Ion Ratio Lower Upper
240 100
120 11.4 8.5 12.7
236 26.6 22.2 33.2



#78
Pyrene
Concen: 21.378 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Tgt Ion:202 Resp: 438597
Ion Ratio Lower Upper
202 100
200 21.2 18.2 27.2
203 17.5 14.3 21.5





#79

Terphenyl-d14

Concen: 67.891 ng

RT: 12.94 min Scan# 1846

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

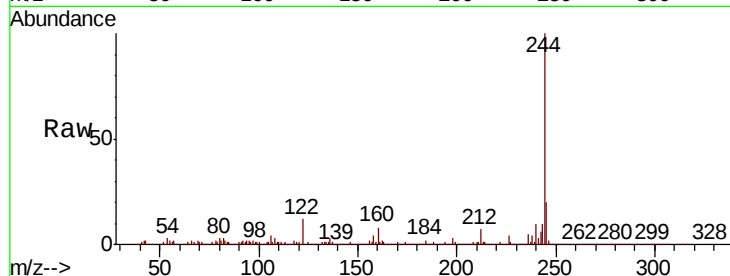
Tgt Ion:244 Resp: 876895

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

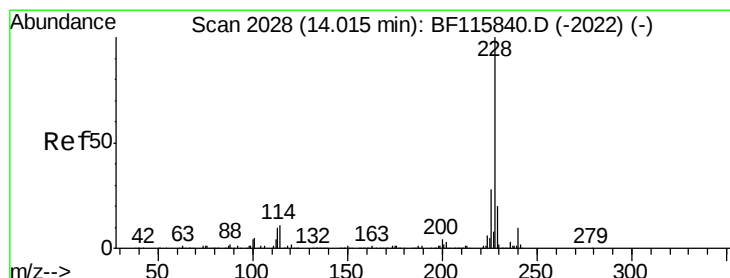
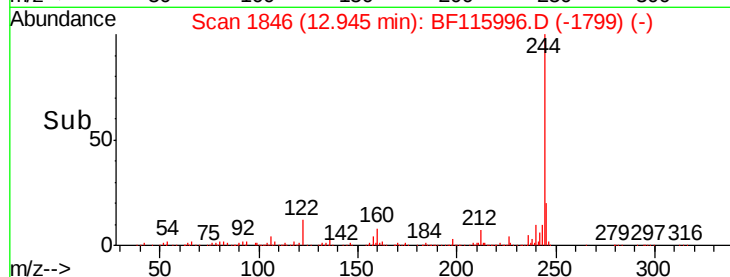
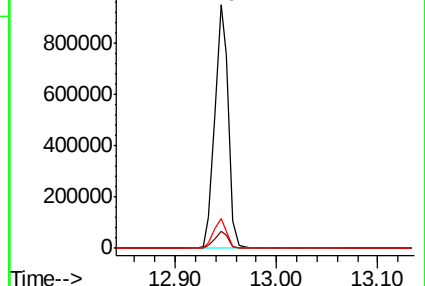
122 12.5 8.6 13.0



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: 9.953 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

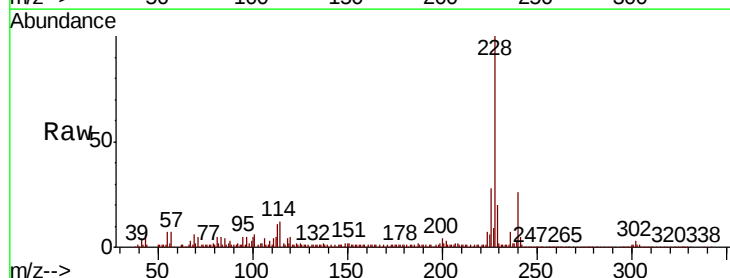
Tgt Ion:228 Resp: 173144

Ion Ratio Lower Upper

228 100

226 28.0 22.5 33.7

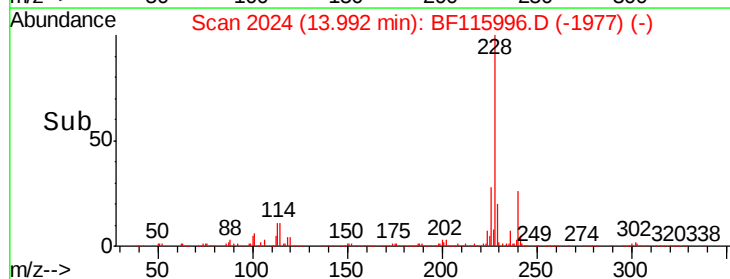
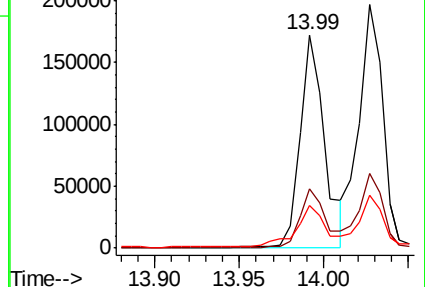
229 19.9 16.1 24.1

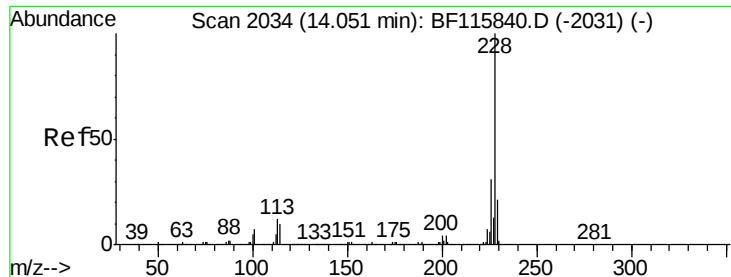


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 11.480 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.02 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

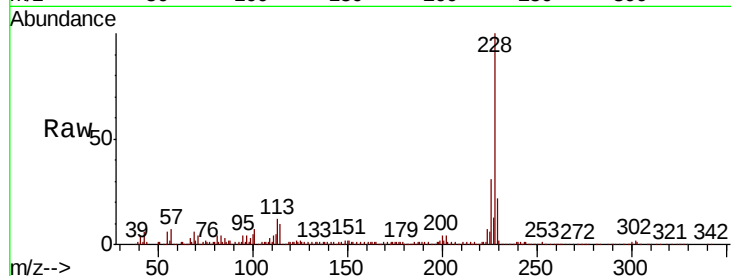
Tgt Ion:228 Resp: 193881

Ion Ratio Lower Upper

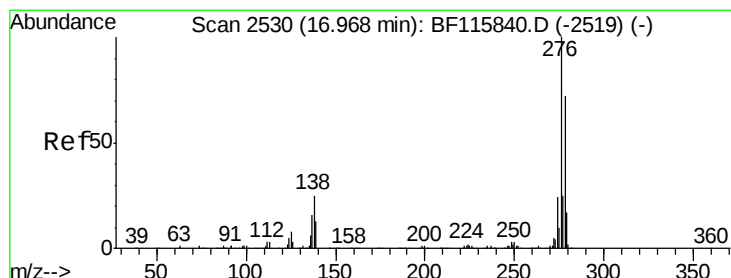
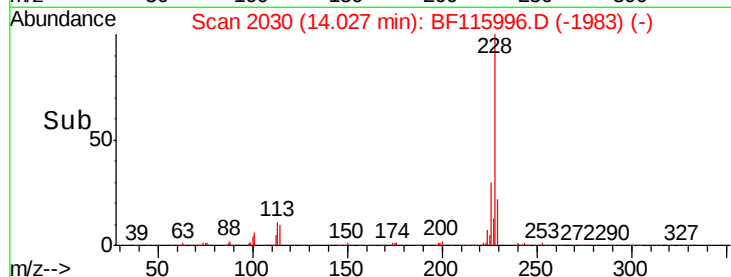
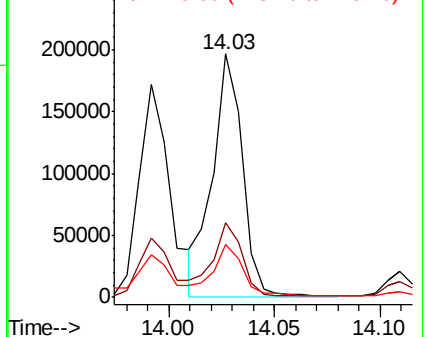
228 100

226 30.7 24.8 37.2

229 21.9 16.4 24.6



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: 10.120 ng

RT: 16.93 min Scan# 2523

Delta R.T. -0.04 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

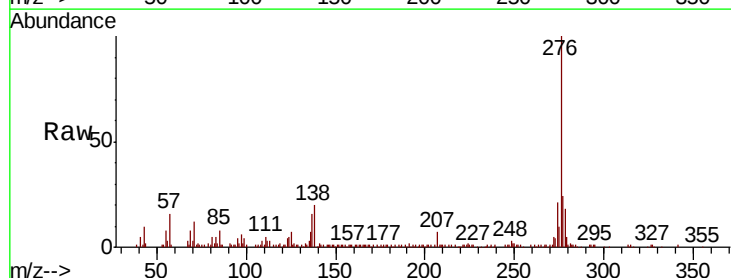
Tgt Ion:276 Resp: 143548

Ion Ratio Lower Upper

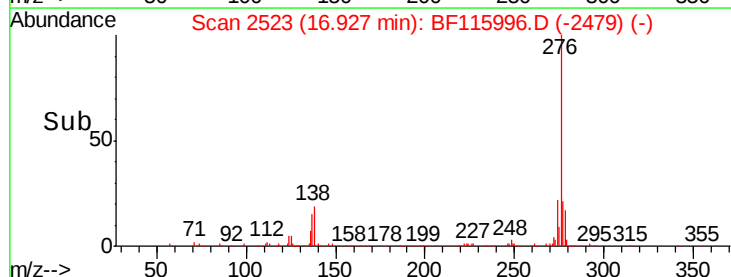
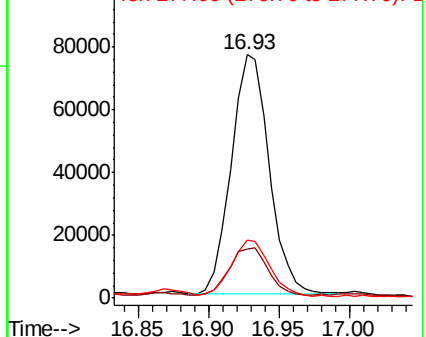
276 100

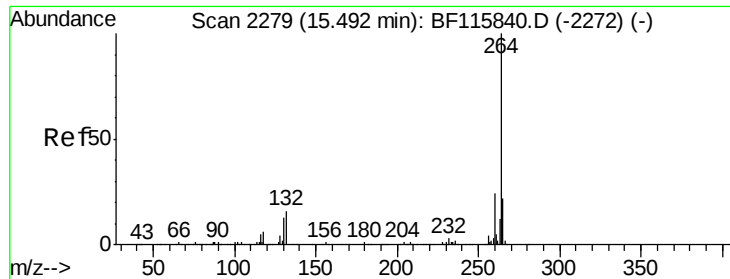
138 21.5 19.6 29.4

277 23.3 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



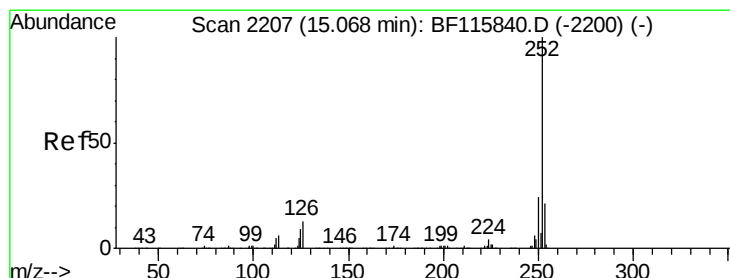
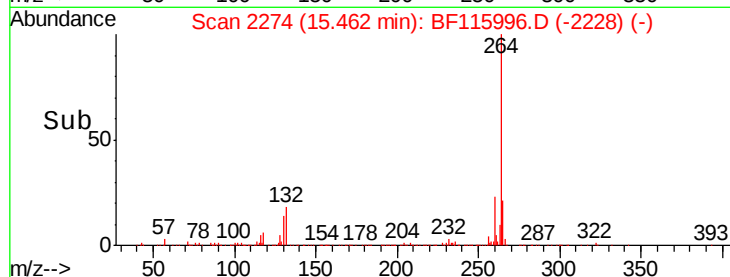
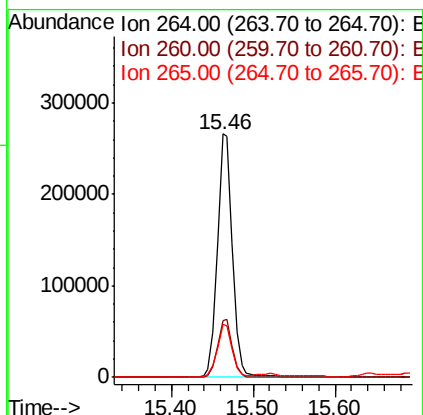
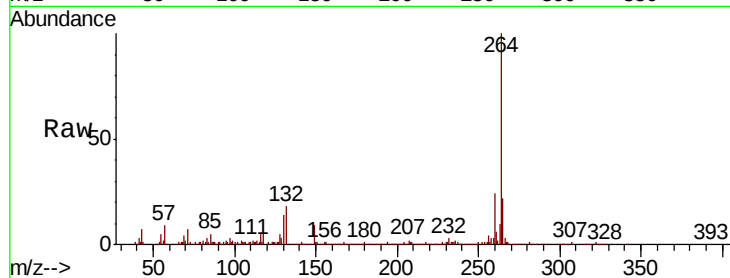


#87
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.03 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Instrument :
BNA_F
ClientSampleId :
RBR-200035

Tgt Ion:264 Resp: 339759

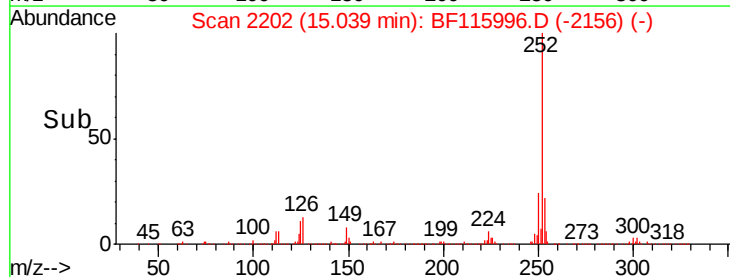
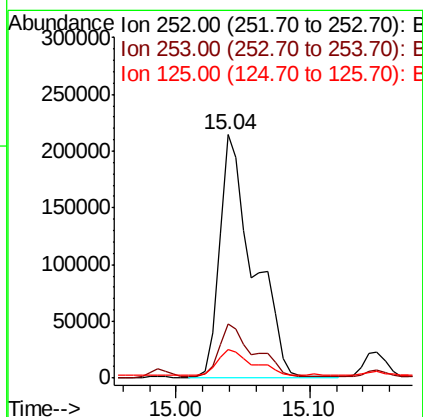
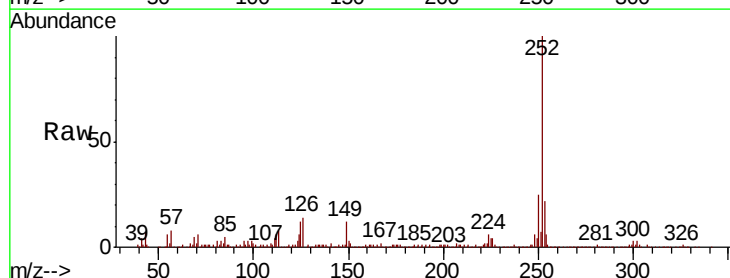
Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.2
265	21.6	17.5	26.3

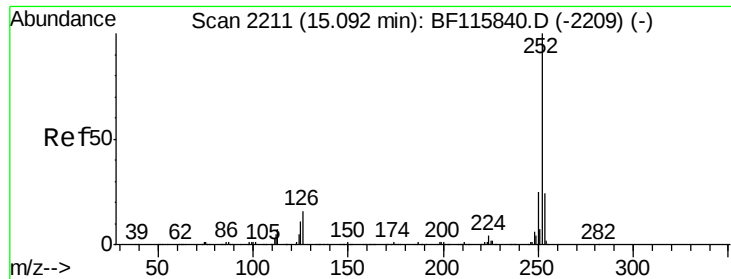


#88
Benzo(b)fluoranthene
Concen: 19.203 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.03 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Tgt Ion:252 Resp: 377246

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.2	25.8
125	11.9	7.4	11.0

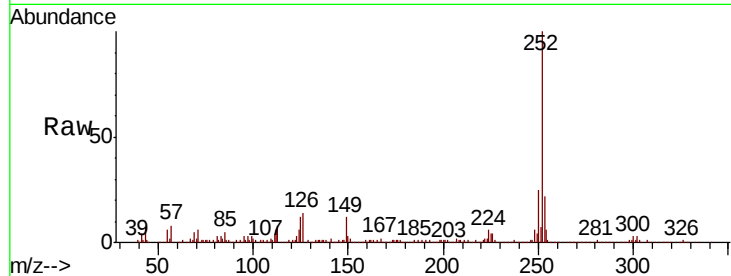




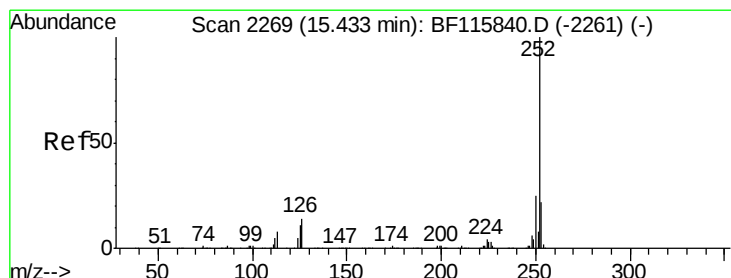
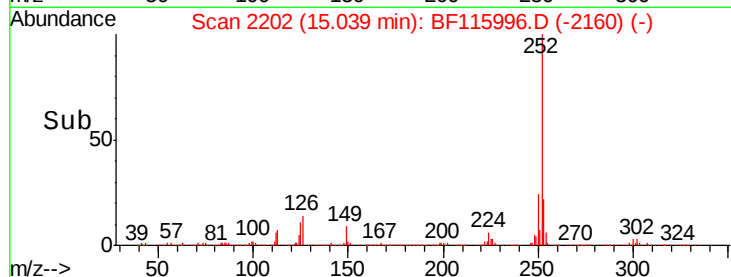
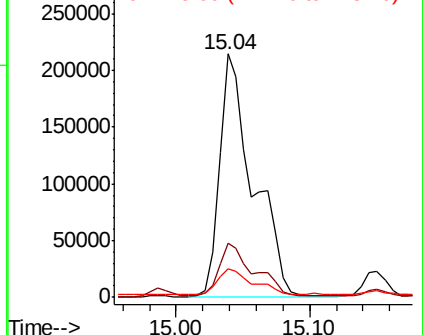
#89
Benzo(k)fluoranthene
Concen: 19.715 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.05 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Instrument :
BNA_F
ClientSampleId :
RBR-200035

Tgt Ion:252 Resp: 377246
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.4
125 11.9 8.9 13.3

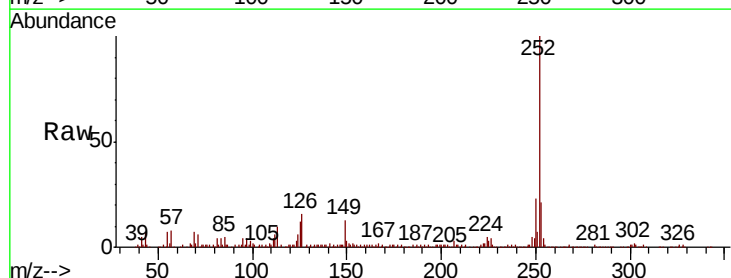


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

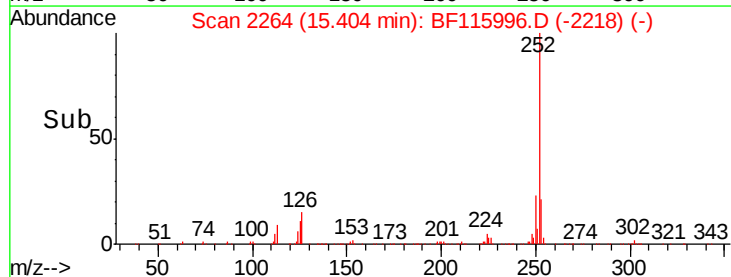
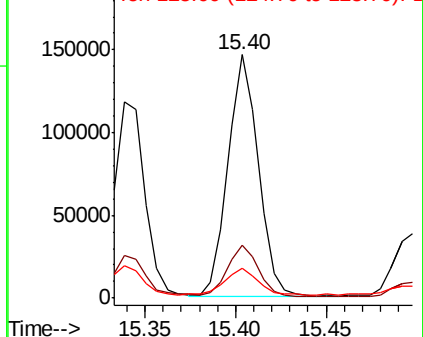


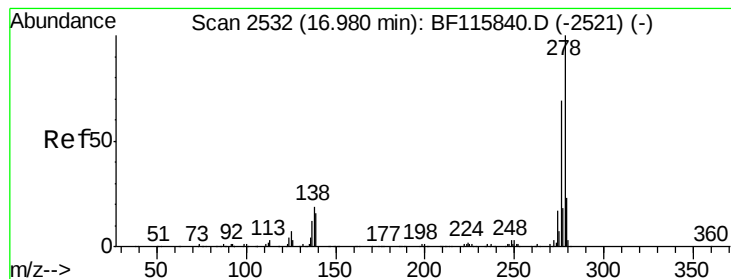
#90
Benzo(a)pyrene
Concen: 9.794 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.03 min
Lab File: BF115996.D
Acq: 5 Aug 2019 22:41

Tgt Ion:252 Resp: 171993
Ion Ratio Lower Upper
252 100
253 21.5 17.8 26.6
125 12.1 8.8 13.2



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 2.242 ng

RT: 16.93 min Scan# 2524

Delta R.T. -0.05 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

Instrument :

BNA_F

ClientSampleId :

RBR-200035

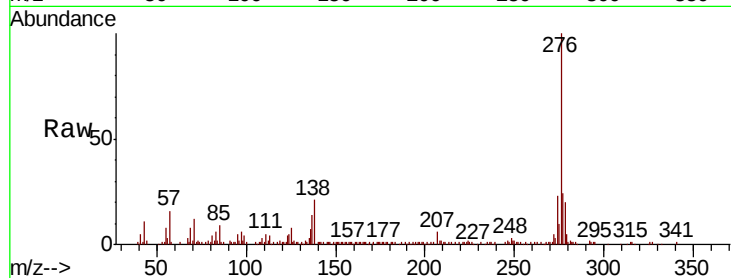
Tgt Ion: 278 Resp: 34075

Ion Ratio Lower Upper

278 100

139 0.0 12.6 19.0#

279 26.1 18.8 28.2

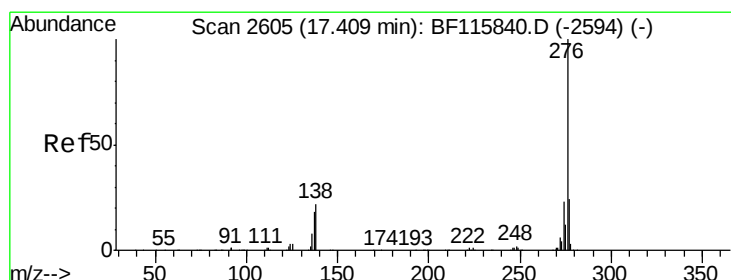
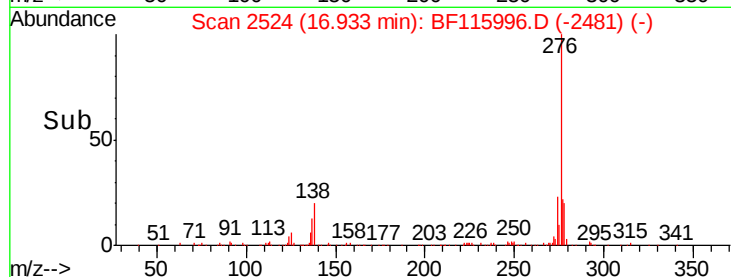
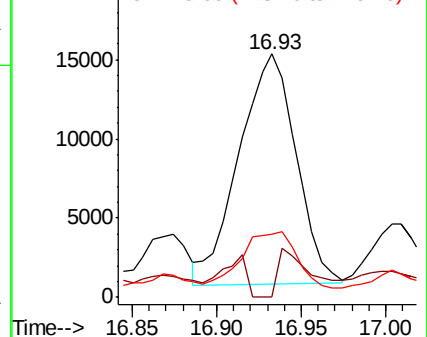


Abundance

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: 9.141 ng

RT: 17.37 min Scan# 2598

Delta R.T. -0.04 min

Lab File: BF115996.D

Acq: 5 Aug 2019 22:41

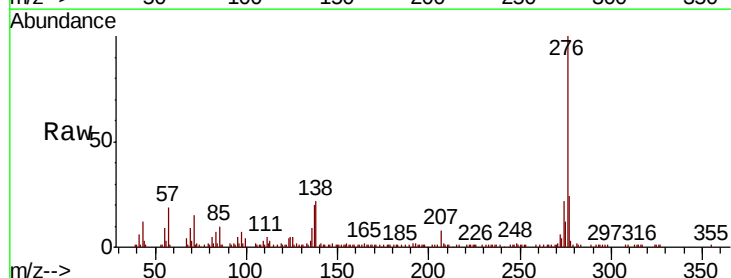
Tgt Ion: 276 Resp: 136471

Ion Ratio Lower Upper

276 100

277 24.1 19.5 29.3

138 22.2 17.8 26.8



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

