

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081319\
 Data File : BF116258.D
 Acq On : 14 Aug 2019 3:58
 Operator : HP/JU
 Sample : K4088-01 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 14 05:31:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	145012	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	585577	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	297656	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	464982	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	307980	20.00	ng	-0.01
87) Perylene-d12	15.47	264	308601	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	168600	19.46	ng	0.00
7) Phenol-d6	6.48	99	228400	20.90	ng	0.00
23) Nitrobenzene-d5	7.40	82	141184	13.92	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	47557	16.48	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	284791	17.92	ng	-0.02
79) Terphenyl-d14	12.93	244	244734	16.74	ng	-0.02

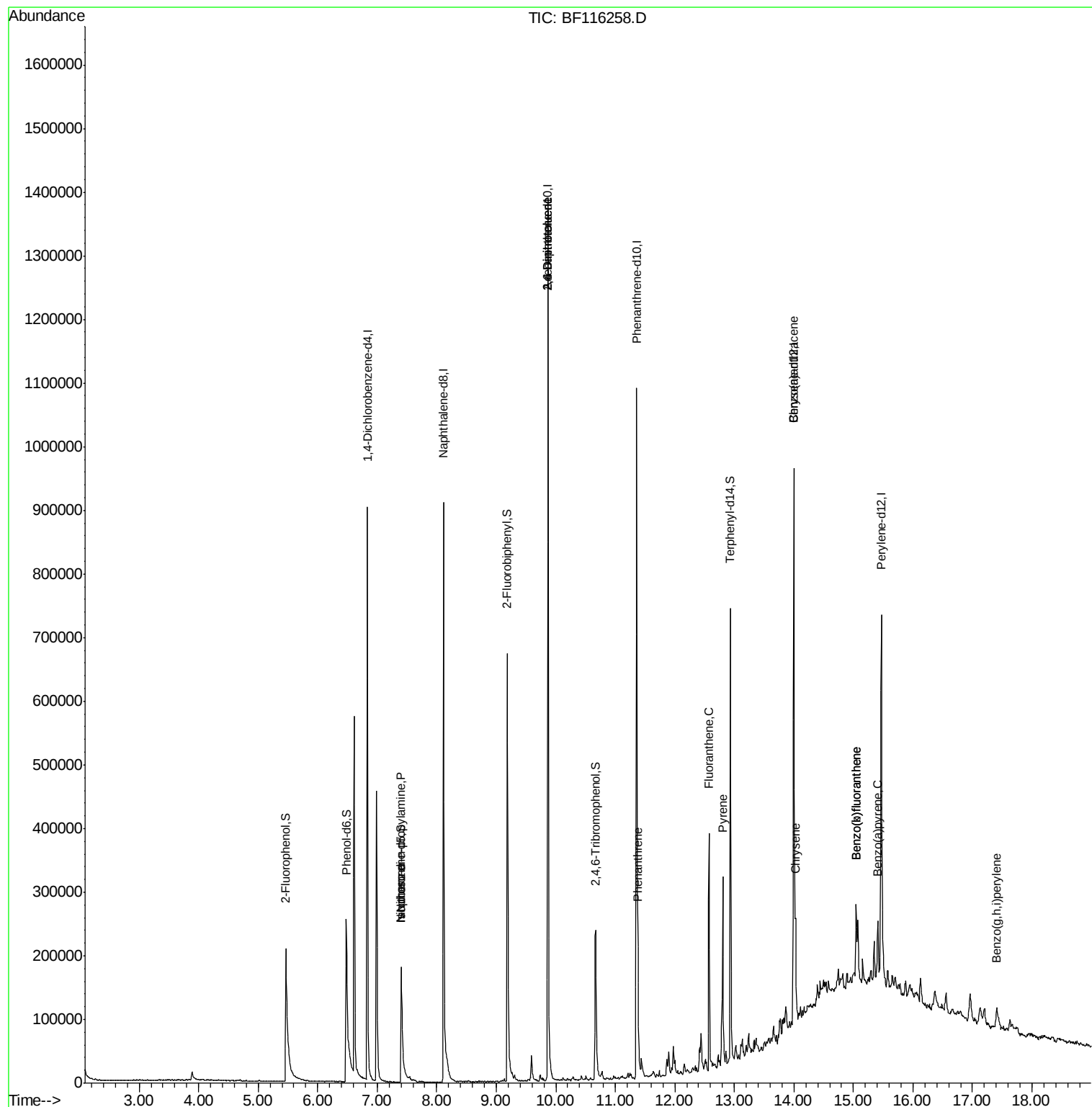
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	17369	2.565	ng	# 79
25) Isophorone	7.40	82	141184	7.278	ng	# 65
51) 2,6-Dinitrotoluene	9.87	165	37743	8.569	ng	# 29
57) 2,4-Dinitrotoluene	9.87	165	37856	6.456	ng	# 20
71) Phenanthrene	11.38	178	62602	2.634	ng	97
75) Fluoranthene	12.57	202	157439	6.326	ng	99
78) Pyrene	12.80	202	138113	5.949	ng	99
81) Benzo(a)anthracene	13.99	228	66273	3.367	ng	98
83) Chrysene	14.03	228	57855	3.027	ng	99
88) Benzo(b)fluoranthene	15.05	252	94198	5.279	ng	# 95
89) Benzo(k)fluoranthene	15.05	252	94198	5.420	ng	# 94
90) Benzo(a)pyrene	15.41	252	47122	2.954	ng	# 92
92) Benzo(a,h,i)perylene	17.41	276	27704	2.043	ng	94

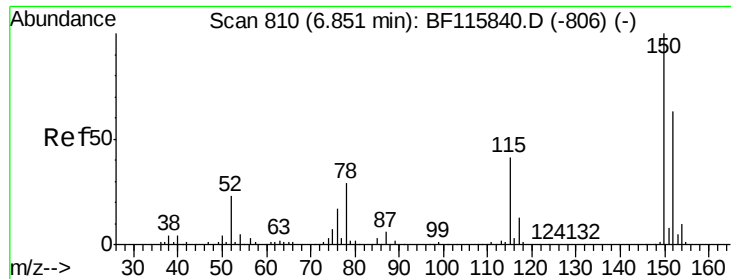
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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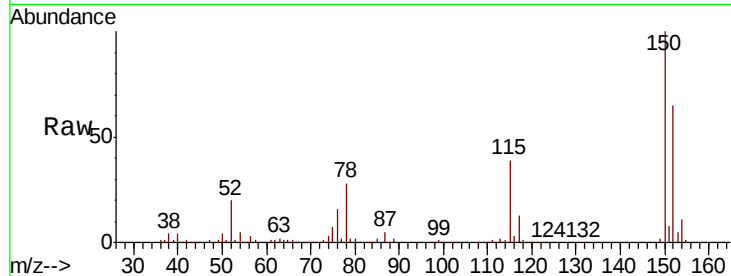




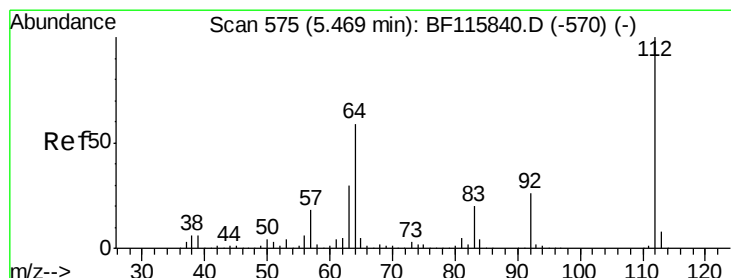
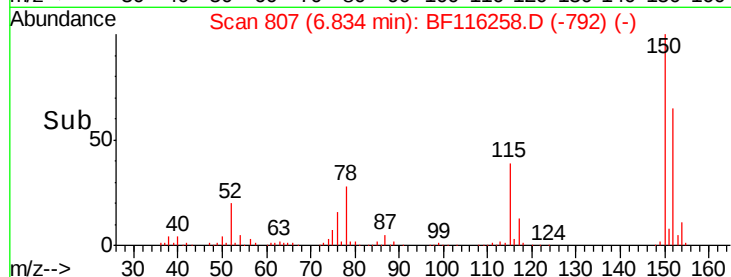
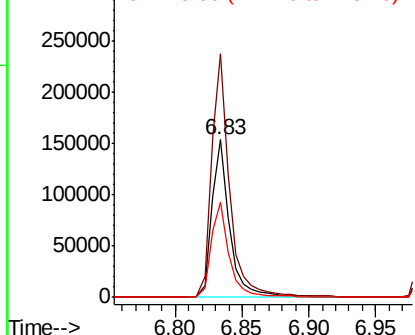
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: BF116258.D
 Acq: 14 Aug 2019 3:58

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 145012
 Ion Ratio Lower Upper
 152 100
 150 154.8 126.2 189.2
 115 60.5 49.9 74.9

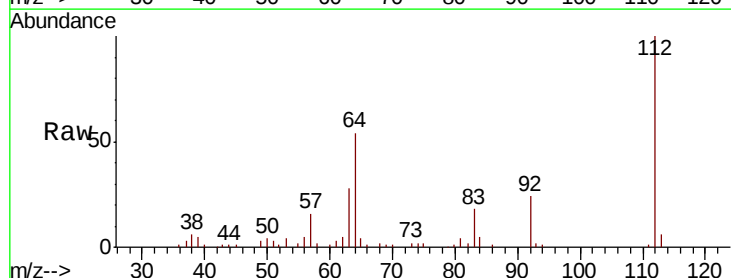


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

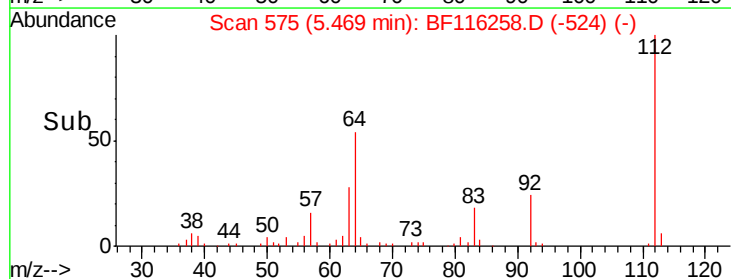
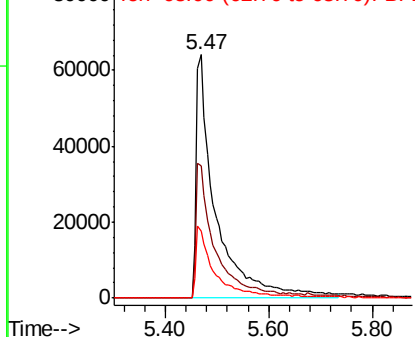


#5
 2-Fluorophenol
 Concen: 19.464 ng
 RT: 5.47 min Scan# 575
 Delta R.T. -0.00 min
 Lab File: BF116258.D
 Acq: 14 Aug 2019 3:58

Tgt Ion:112 Resp: 168600
 Ion Ratio Lower Upper
 112 100
 64 54.2 45.4 68.2
 63 27.7 23.7 35.5



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: 20.899 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Instrument :

BNA_F

ClientSampleId :

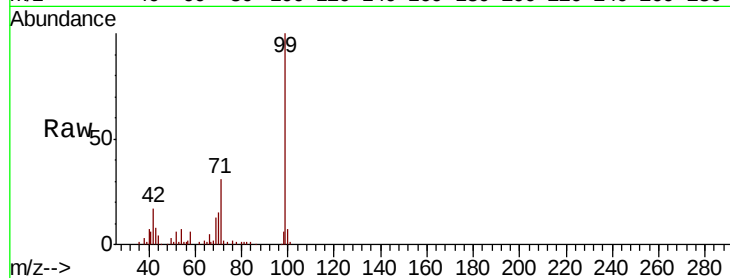
Tot Ion: 99 Resp: 228400

Ion Ratio Lower Upper

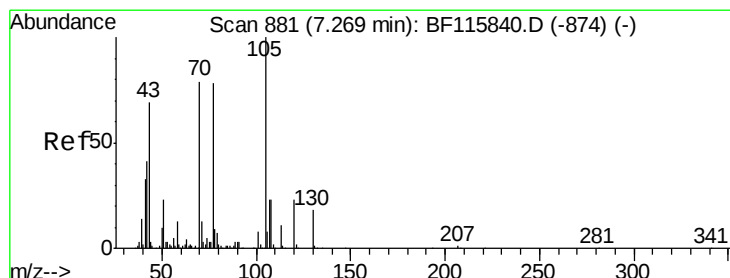
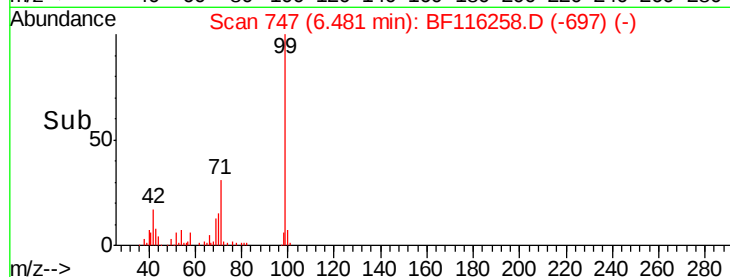
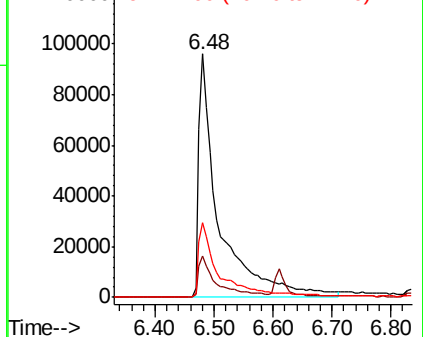
99 100

42 17.1 13.8 20.8

71 30.6 27.3 40.9



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: 2.565 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Tgt Ion: 70 Resp: 17369

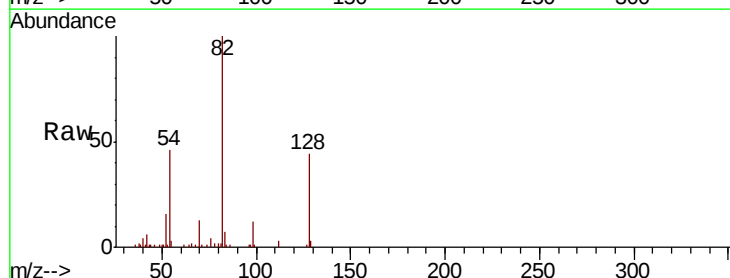
Ion Ratio Lower Upper

70 100

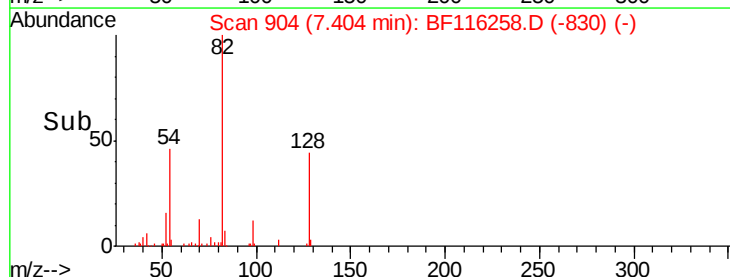
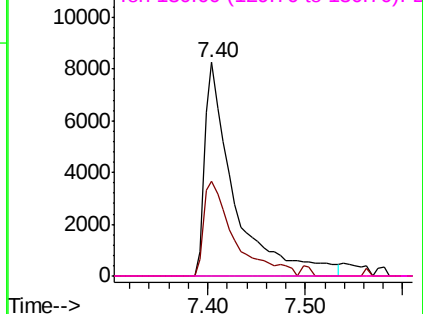
42 44.1 40.9 61.3

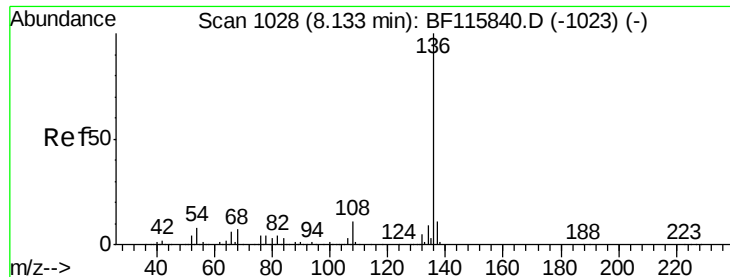
101 0.0 7.9 11.9#

130 0.0 16.9 25.3#



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# 1025

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 585577

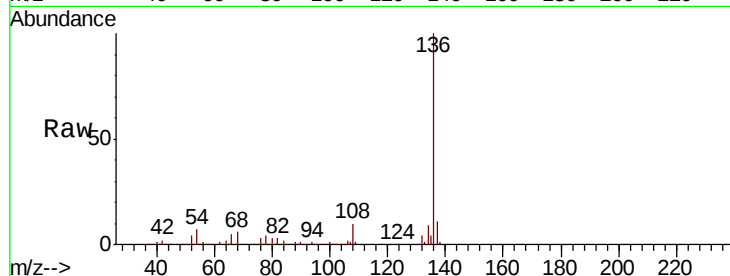
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 6.6 5.8 8.6

68 5.7 5.2 7.8

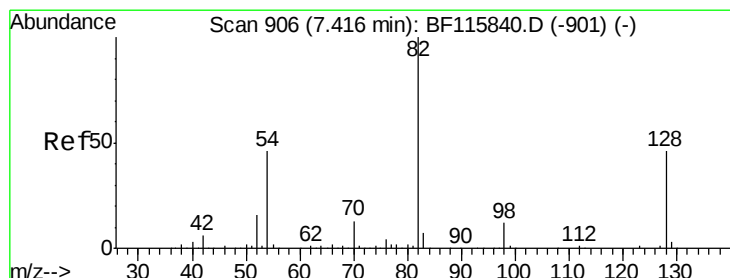
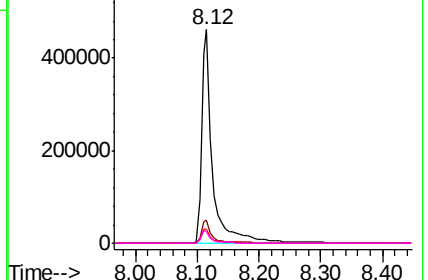
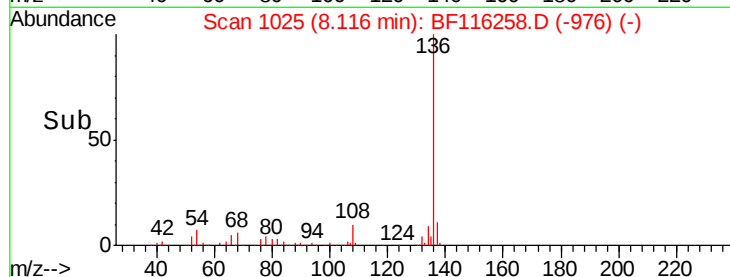


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.917 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

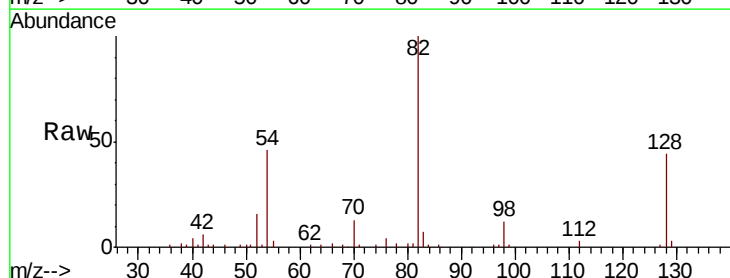
Tgt Ion: 82 Resp: 141184

Ion Ratio Lower Upper

82 100

128 44.4 36.5 54.7

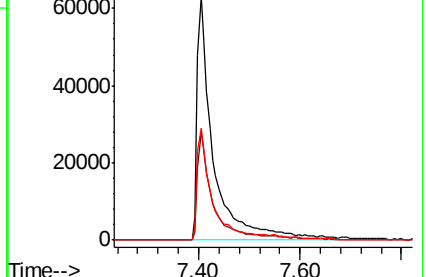
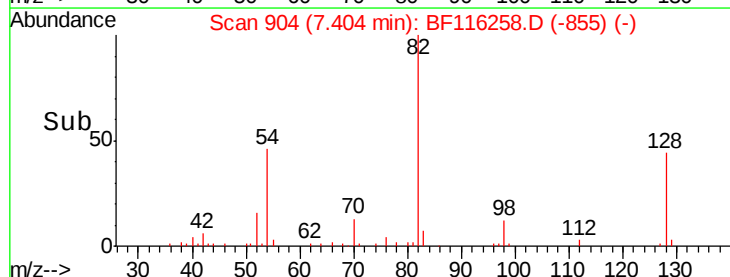
54 45.7 36.0 54.0

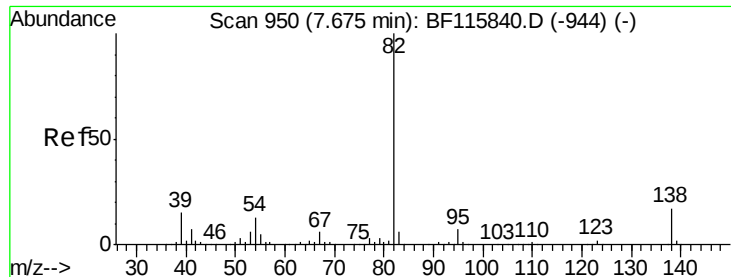


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 7.278 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Instrument :

BNA_F

ClientSampleId :

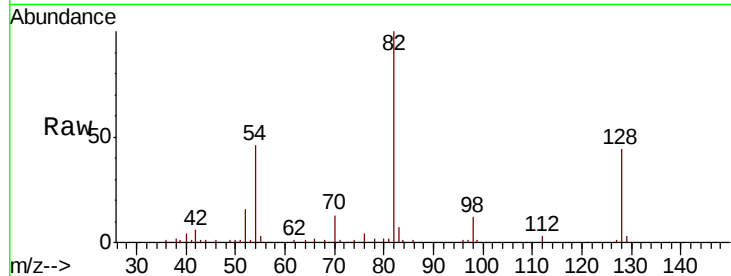
Tot Ion: 82 Resp: 141184

Ion Ratio Lower Upper

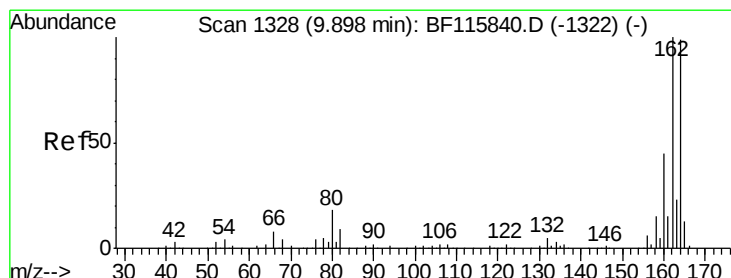
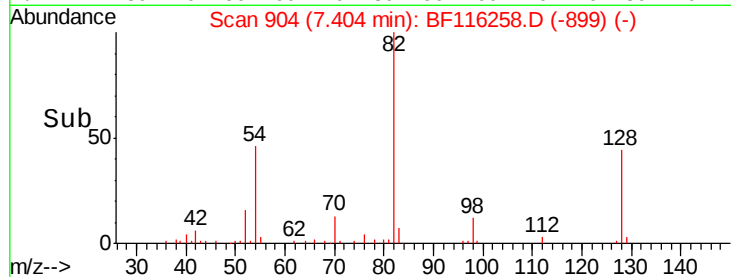
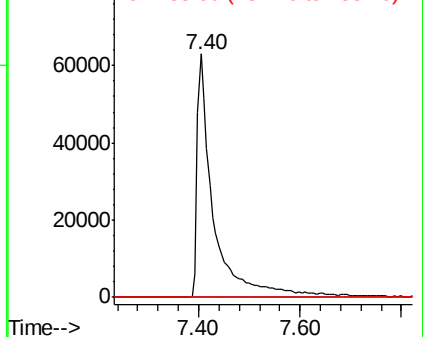
82 100

95 0.0 5.4 8.0#

138 0.0 14.5 21.7#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

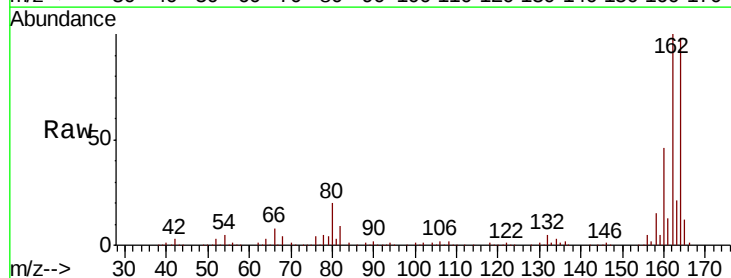
Tgt Ion: 164 Resp: 297656

Ion Ratio Lower Upper

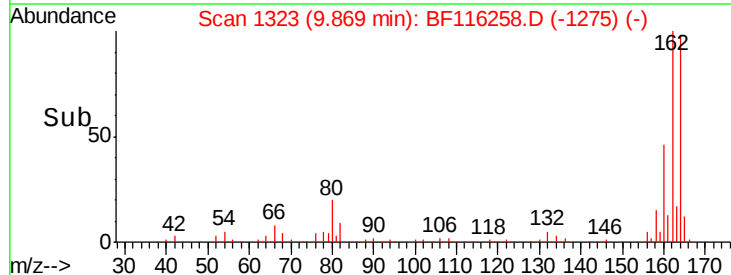
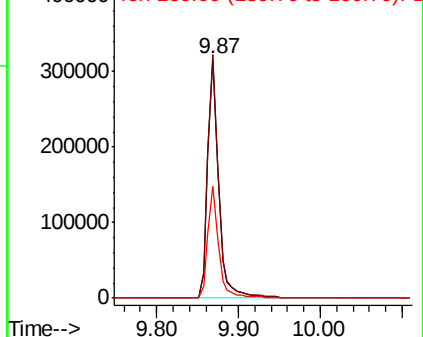
164 100

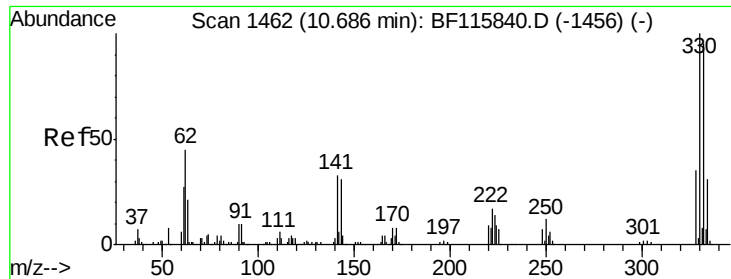
162 101.8 82.6 124.0

160 46.5 37.6 56.4



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

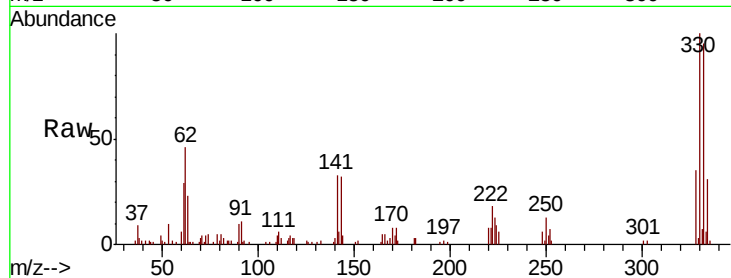




#42
 2,4,6-Tribromophenol
 Concen: 16.479 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF116258.D
 Acq: 14 Aug 2019 3:58

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.9	76.8	115.2
141	37.0	26.3	39.5

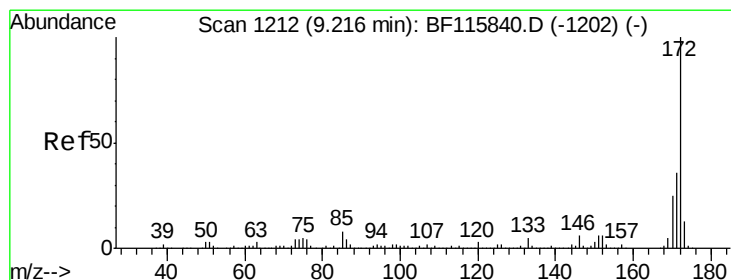
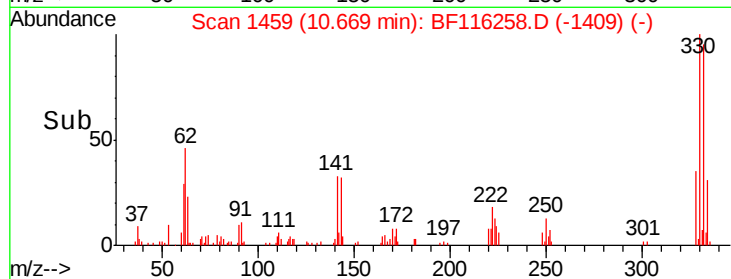
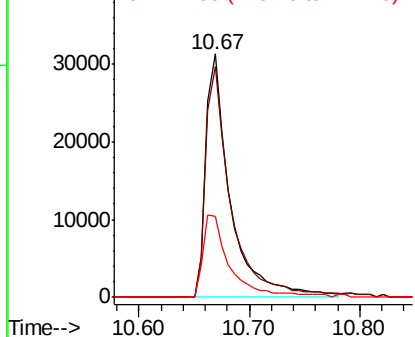


Abundance

Ion 329.80 (329.50 to 330.50): E

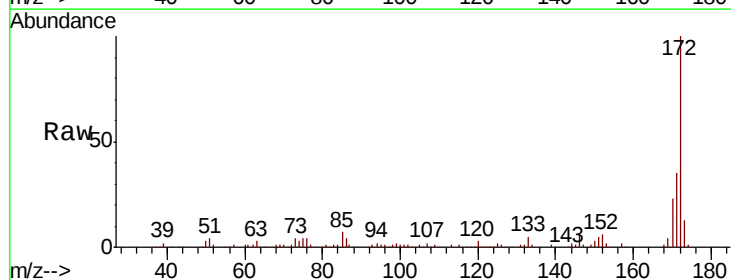
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 17.921 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. -0.02 min
 Lab File: BF116258.D
 Acq: 14 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.6	44.4
170	23.2	20.1	30.1

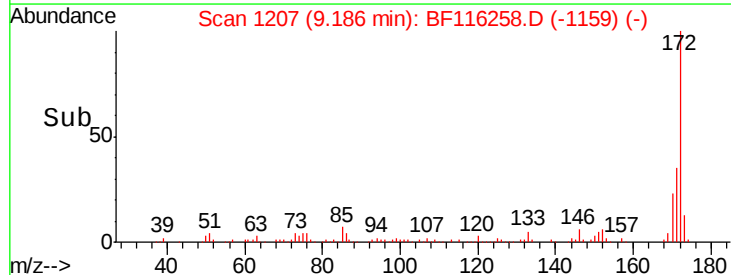
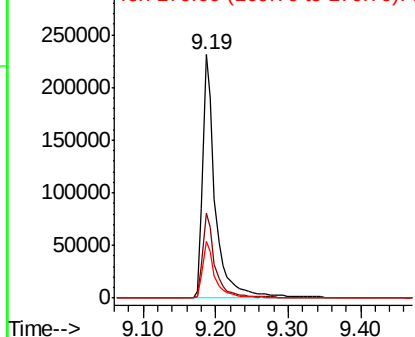


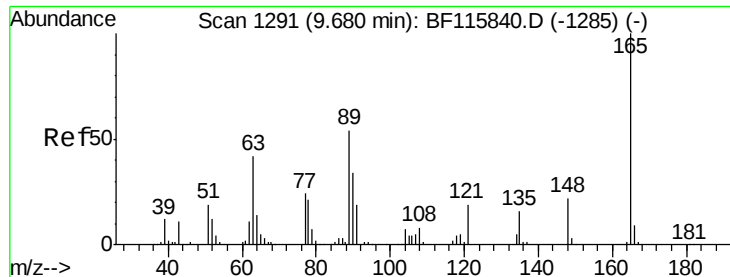
Abundance

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

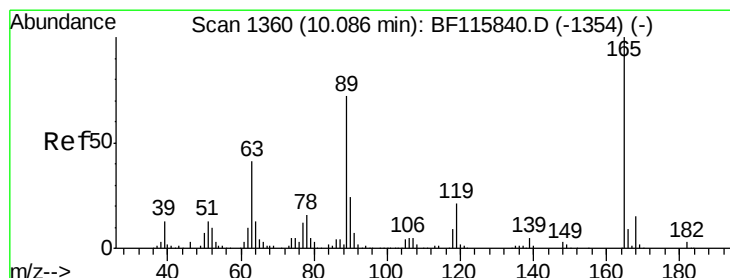
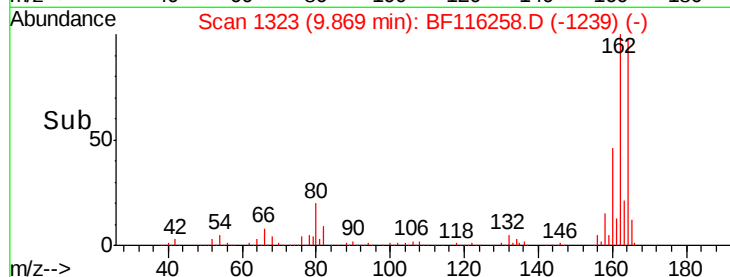
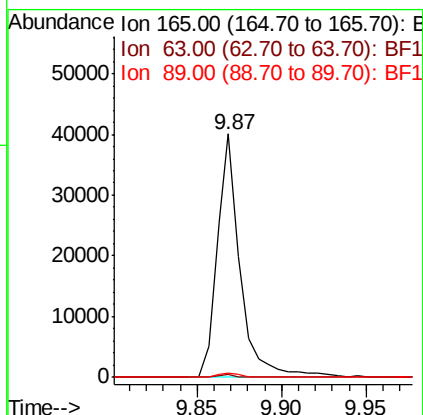
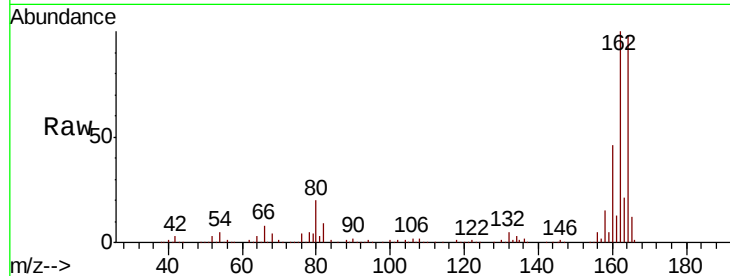




#51
 2,6-Dinitrotoluene
 Concen: 8.569 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. 0.19 min
 Lab File: BF116258.D
 Acq: 14 Aug 2019 3:58

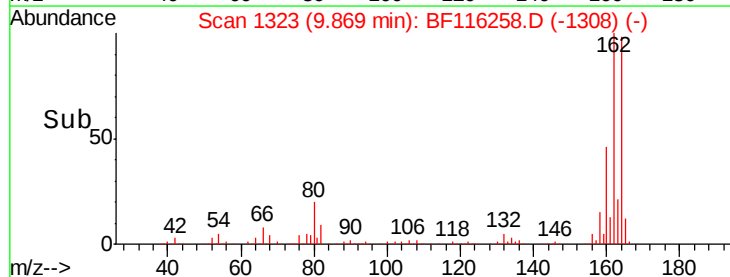
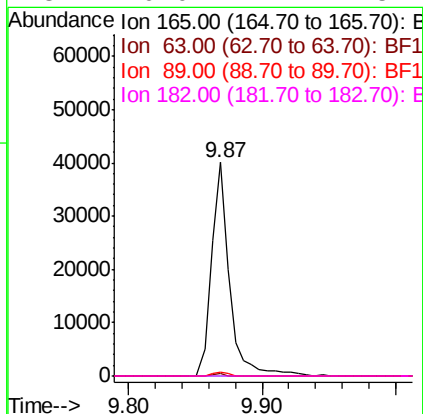
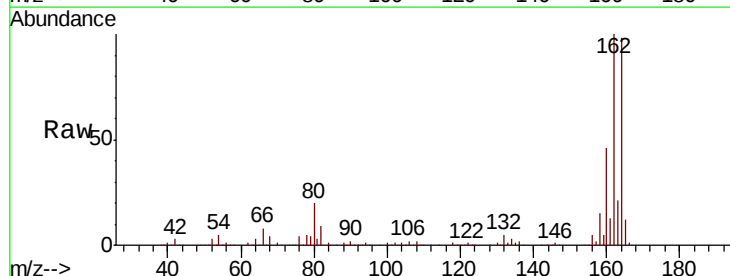
Instrument :
 BNA_F
 ClientSampleId :

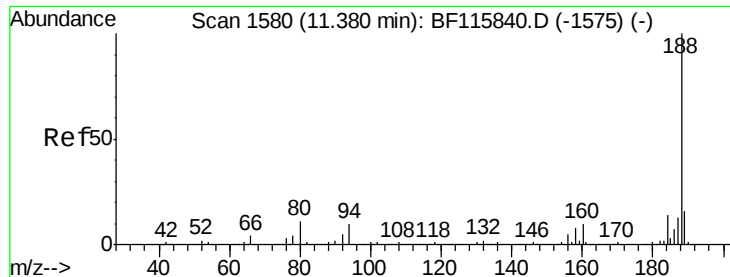
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	38.2	57.2#
89	1.5	42.9	64.3#



#57
 2,4-Dinitrotoluene
 Concen: 6.456 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.21 min
 Lab File: BF116258.D
 Acq: 14 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	39.6	59.4#
89	1.5	62.2	93.2#
182	0.0	2.1	3.1#

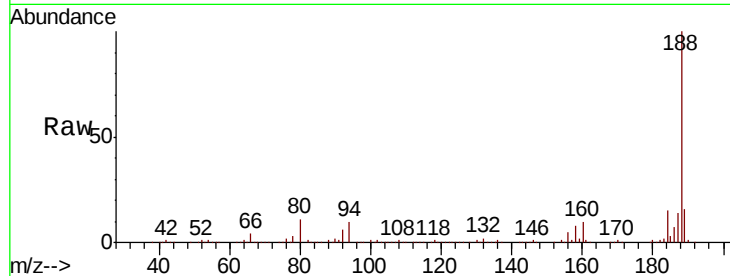




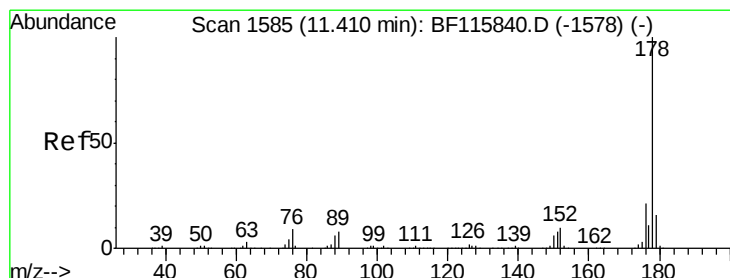
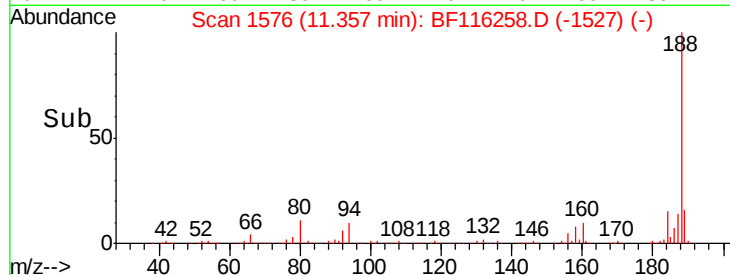
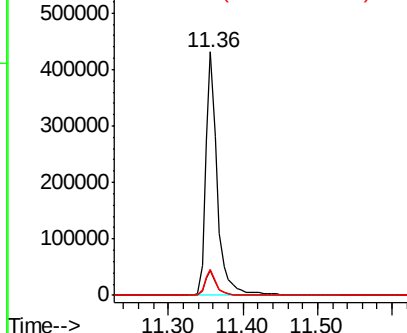
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF116258.D
Acq: 14 Aug 2019 3:58

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 464982
Ion Ratio Lower Upper
188 100
94 10.0 8.1 12.1
80 10.6 8.7 13.1

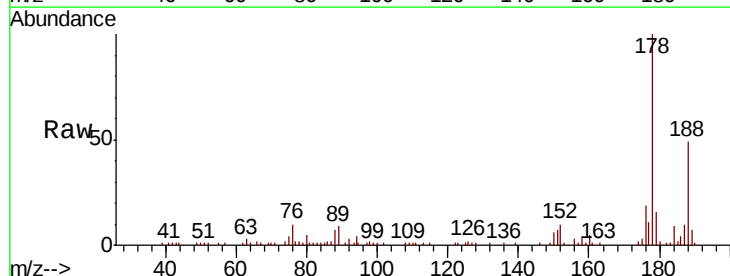


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

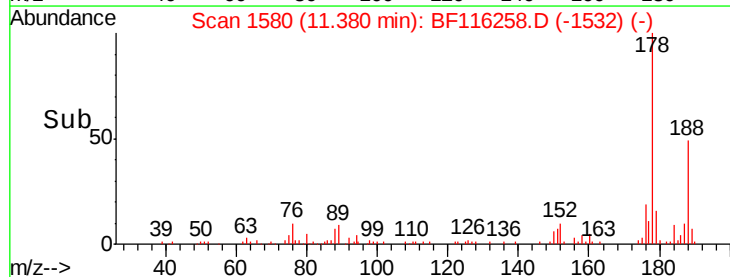
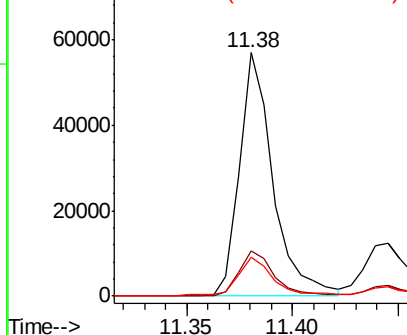


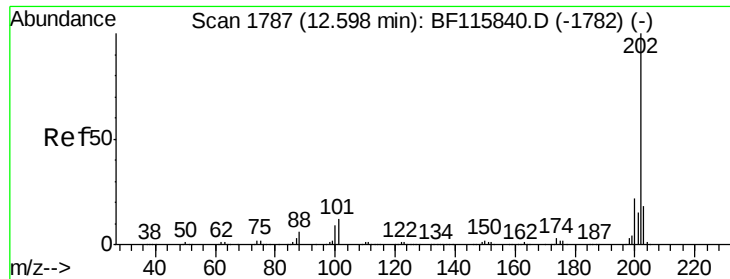
#71
Phenanthrene
Concen: 2.634 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF116258.D
Acq: 14 Aug 2019 3:58

Tgt Ion:178 Resp: 62602
Ion Ratio Lower Upper
178 100
176 18.6 16.6 24.8
179 15.9 12.5 18.7



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: 6.326 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Instrument :

BNA_F

ClientSampleId :

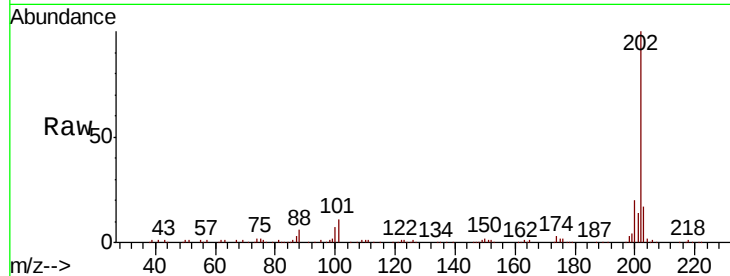
Tot Ion:202 Resp: 157439

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.2

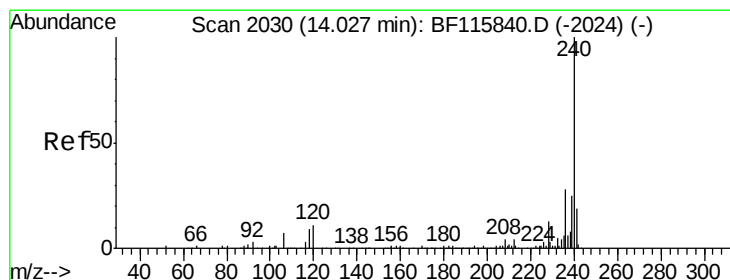
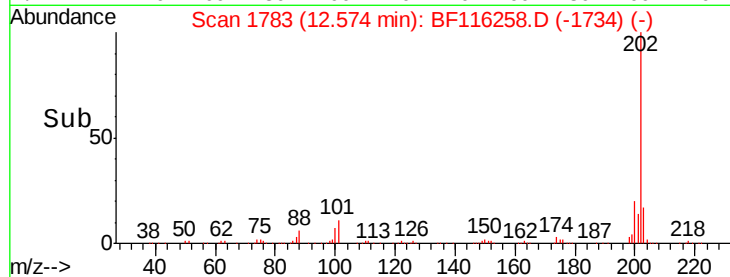
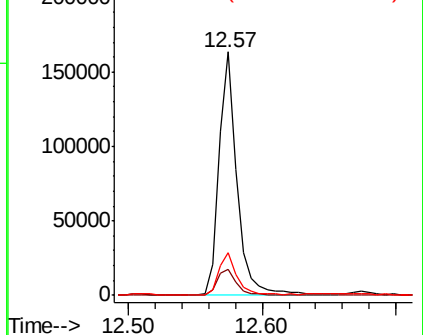
203 17.3 0.0 37.8



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# 2025

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

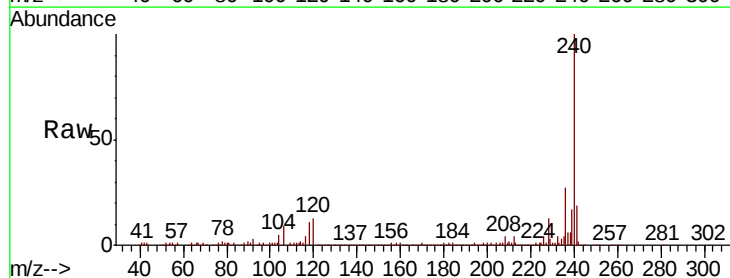
Tgt Ion:240 Resp: 307980

Ion Ratio Lower Upper

240 100

120 13.0 10.7 16.1

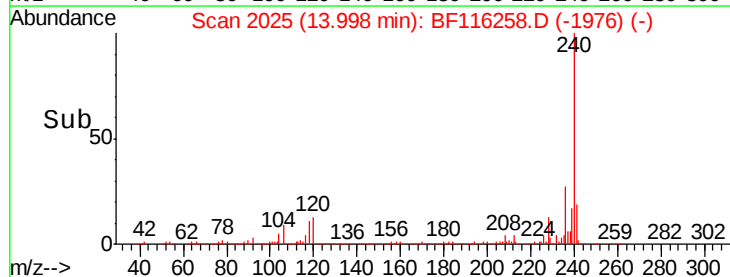
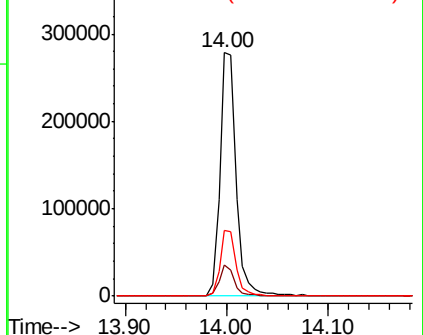
236 26.9 22.2 33.2

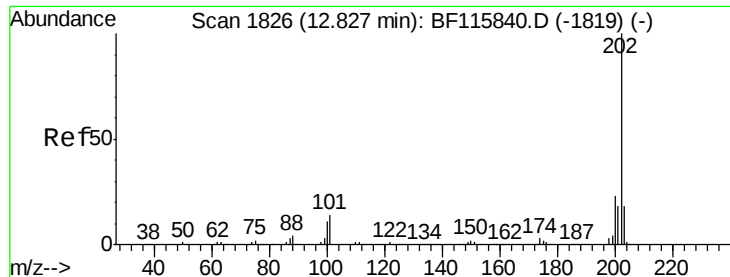


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 5.949 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Instrument :

BNA_F

ClientSampleId :

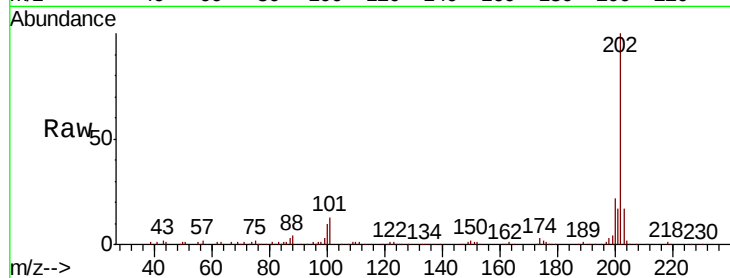
Tot Ion:202 Resp: 138113

Ion Ratio Lower Upper

202 100

200 21.7 18.0 27.0

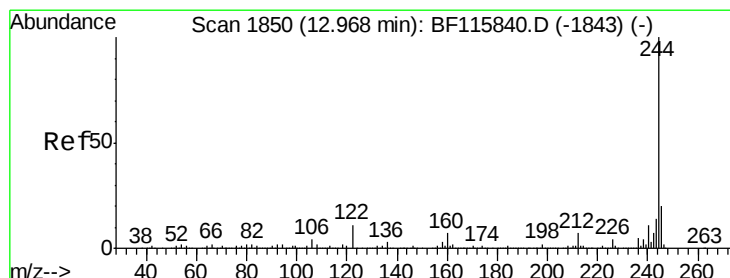
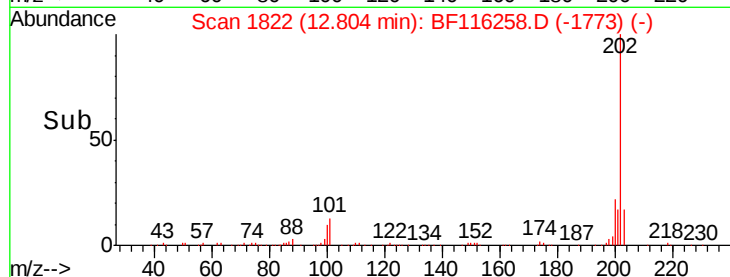
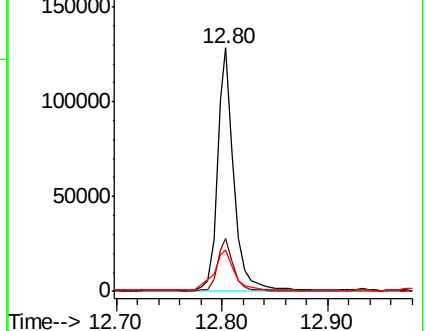
203 17.2 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 16.744 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.02 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

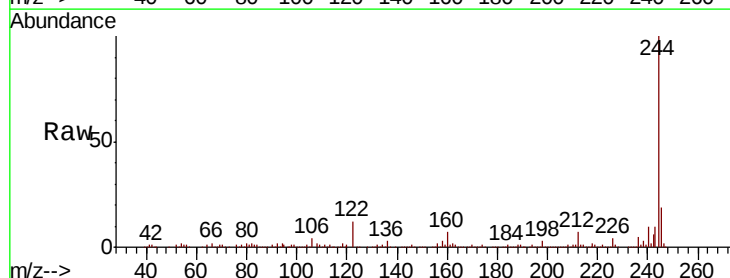
Tgt Ion:244 Resp: 244734

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.8

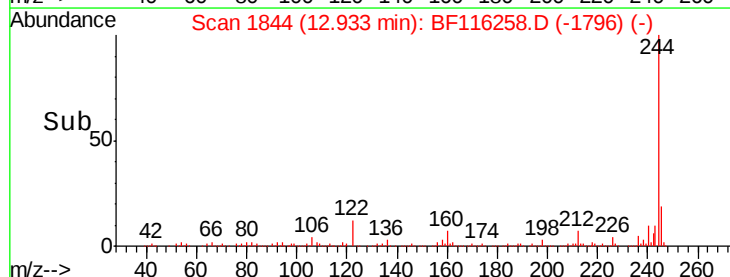
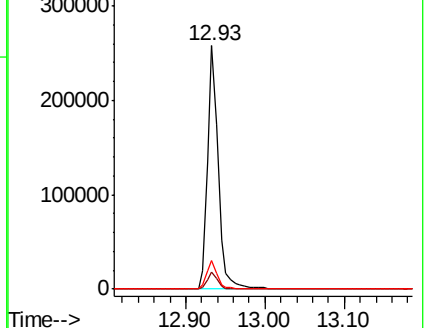
122 11.6 9.0 13.4

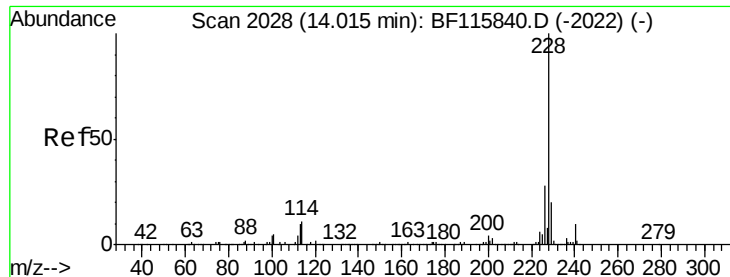


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 3.367 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Instrument :

BNA_F

ClientSampleId :

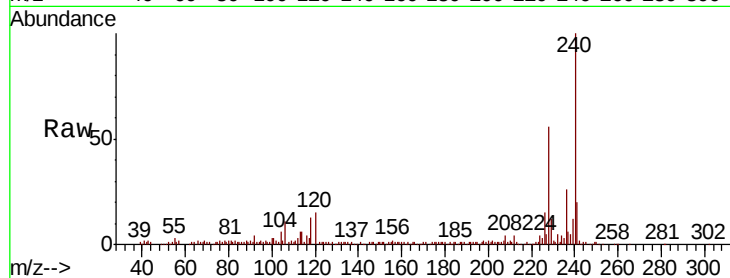
Tot Ion:228 Resp: 66273

Ion Ratio Lower Upper

228 100

226 27.8 22.7 34.1

229 22.0 16.2 24.4

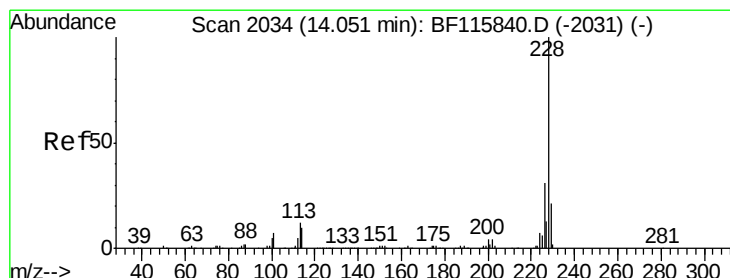
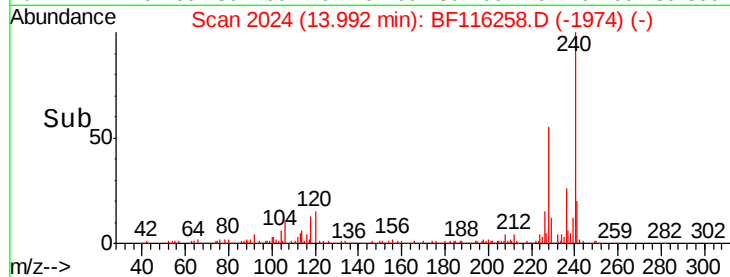
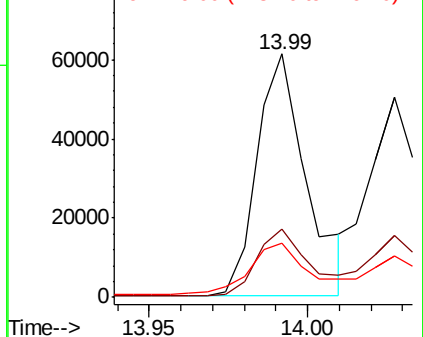


Abundance

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: 3.027 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

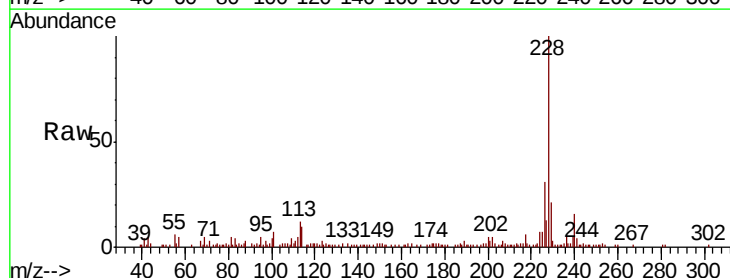
Tgt Ion:228 Resp: 57855

Ion Ratio Lower Upper

228 100

226 30.8 25.5 38.3

229 20.7 16.6 24.8

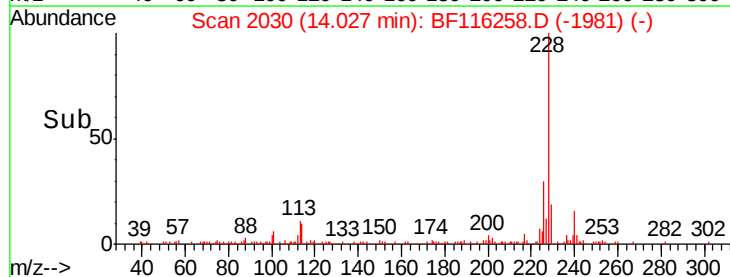
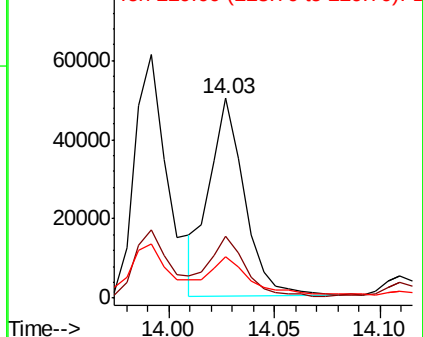


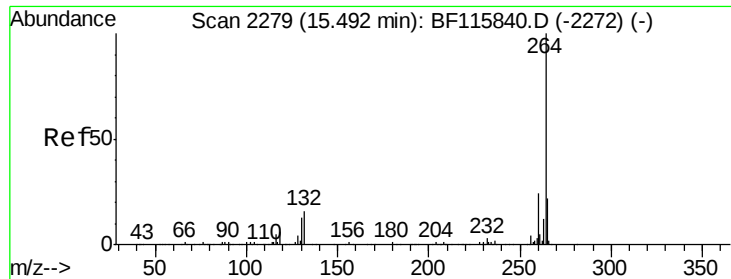
Abundance

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



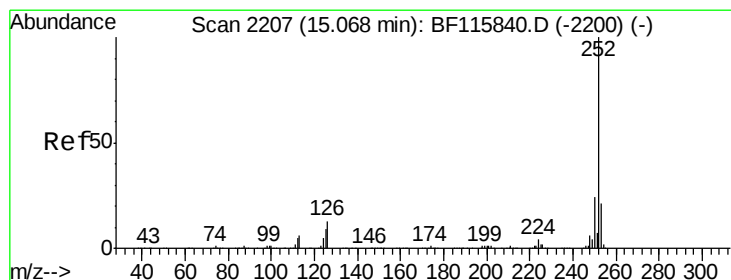
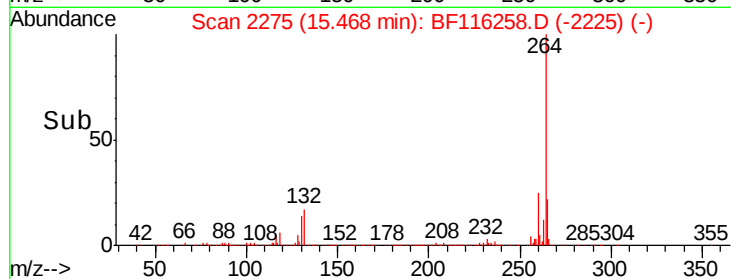
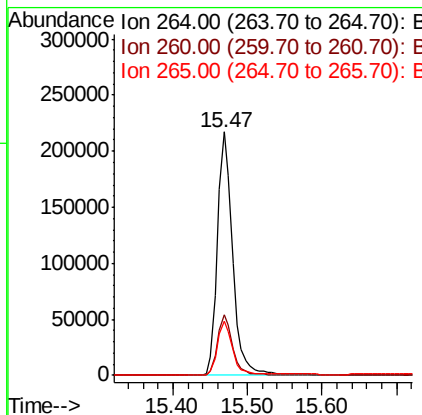
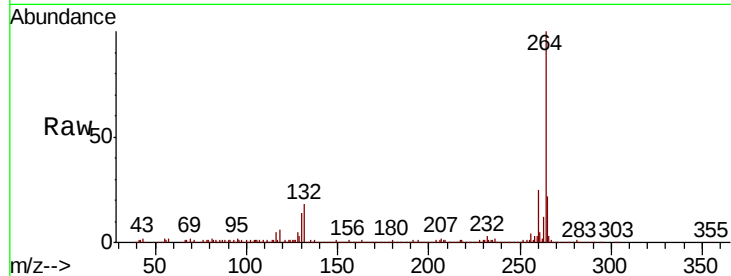


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. -0.01 min
Lab File: BF116258.D
Acq: 14 Aug 2019 3:58

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 308601

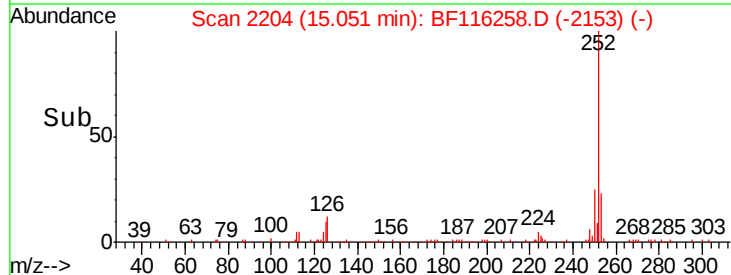
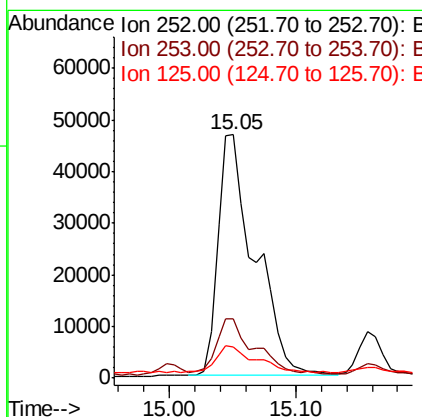
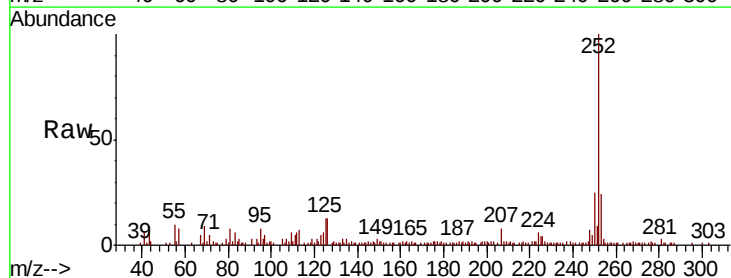
Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.7	29.5
265	22.1	17.4	26.0

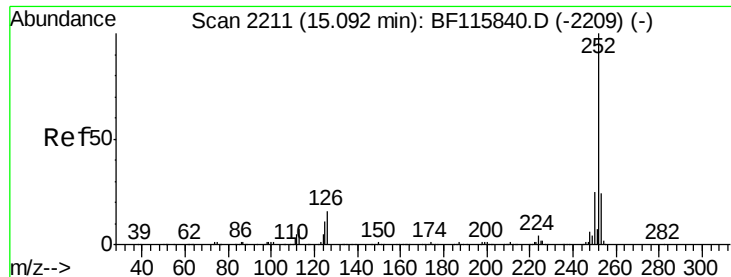


#88
Benzo(b)fluoranthene
Concen: 5.279 ng
RT: 15.05 min Scan# 2204
Delta R.T. -0.00 min
Lab File: BF116258.D
Acq: 14 Aug 2019 3:58

Tgt Ion:252 Resp: 94198

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.8	26.8
125	13.0	8.4	12.6#





#89

Benzo(k)fluoranthene

Concen: 5.420 ng

RT: 15.05 min Scan# 2204

Delta R.T. -0.03 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

Instrument :

BNA_F

ClientSampleId :

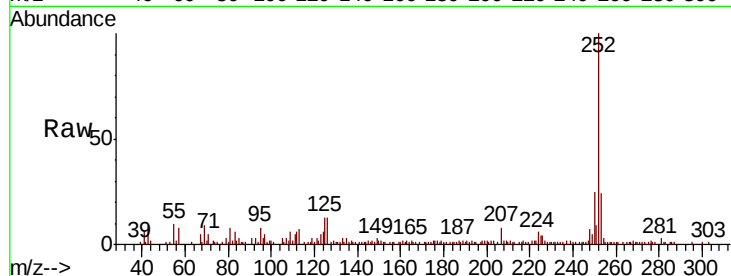
Tot Ion:252 Resp: 94198

Ion Ratio Lower Upper

252 100

253 24.3 17.8 26.8

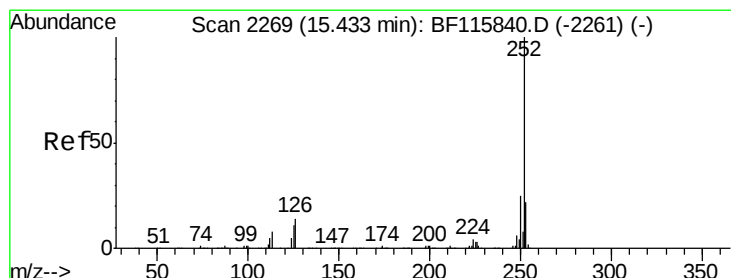
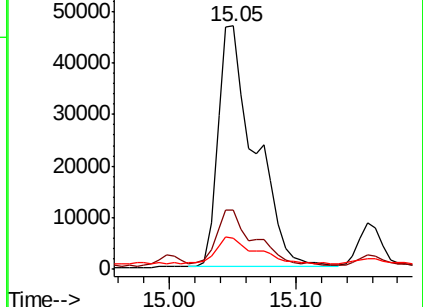
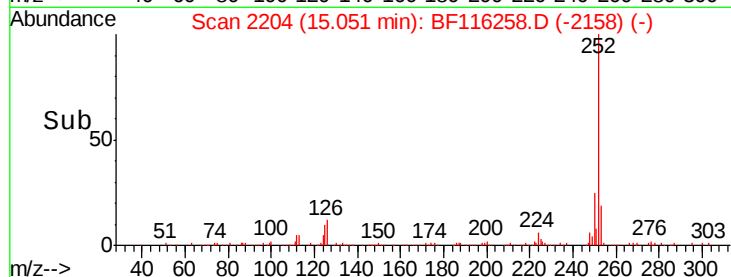
125 13.0 7.7 11.5#



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: 2.954 ng

RT: 15.41 min Scan# 2265

Delta R.T. -0.01 min

Lab File: BF116258.D

Acq: 14 Aug 2019 3:58

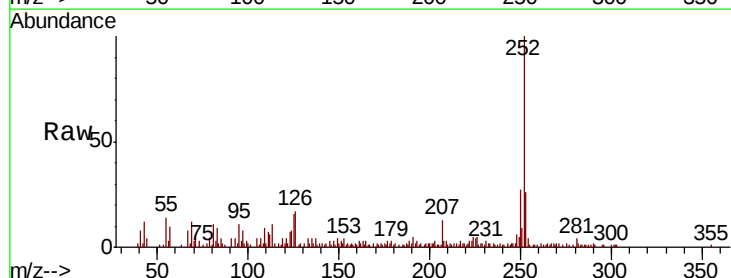
Tgt Ion:252 Resp: 47122

Ion Ratio Lower Upper

252 100

253 25.5 18.0 27.0

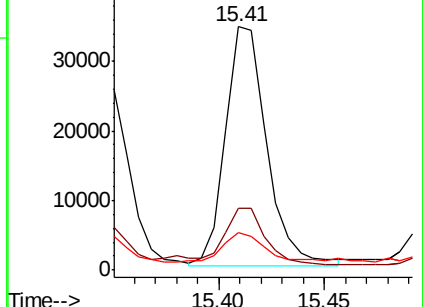
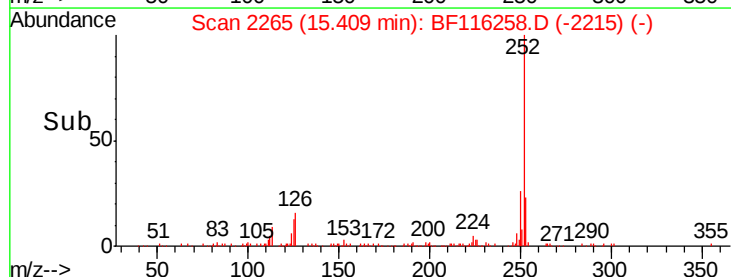
125 15.6 8.9 13.3#

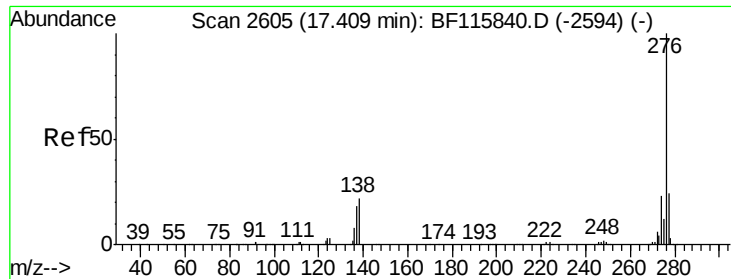


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 2.043 ng
 RT: 17.41 min Scan# 2605
 Delta R.T. 0.02 min
 Lab File: BF116258.D
 Acq: 14 Aug 2019 3:58

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 276 Resp: 27704
 Ion Ratio Lower Upper
 276 100
 277 25.5 18.4 27.6
 138 24.8 17.0 25.6

