

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
 Data File : BF116641.D
 Acq On : 29 Aug 2019 3:18
 Operator : HP/JU
 Sample : K4093-03 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 29 04:49:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 28 13:34:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	75020	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	206062	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	110919	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	170796	20.00	ng	0.00
76) Chrysene-d12	14.02	240	182303	20.00	ng	0.00
87) Perylene-d12	15.47	264	202056	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	114796	26.43	ng	0.00
7) Phenol-d6	6.48	99	154240	26.19	ng	-0.01
23) Nitrobenzene-d5	7.42	82	43944	12.20	ng	-0.01
42) 2,4,6-Tribromophenol	10.68	330	16579	15.71	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	91128	13.67	ng	0.00
79) Terphenyl-d14	12.96	244	77095	6.88	ng	0.00

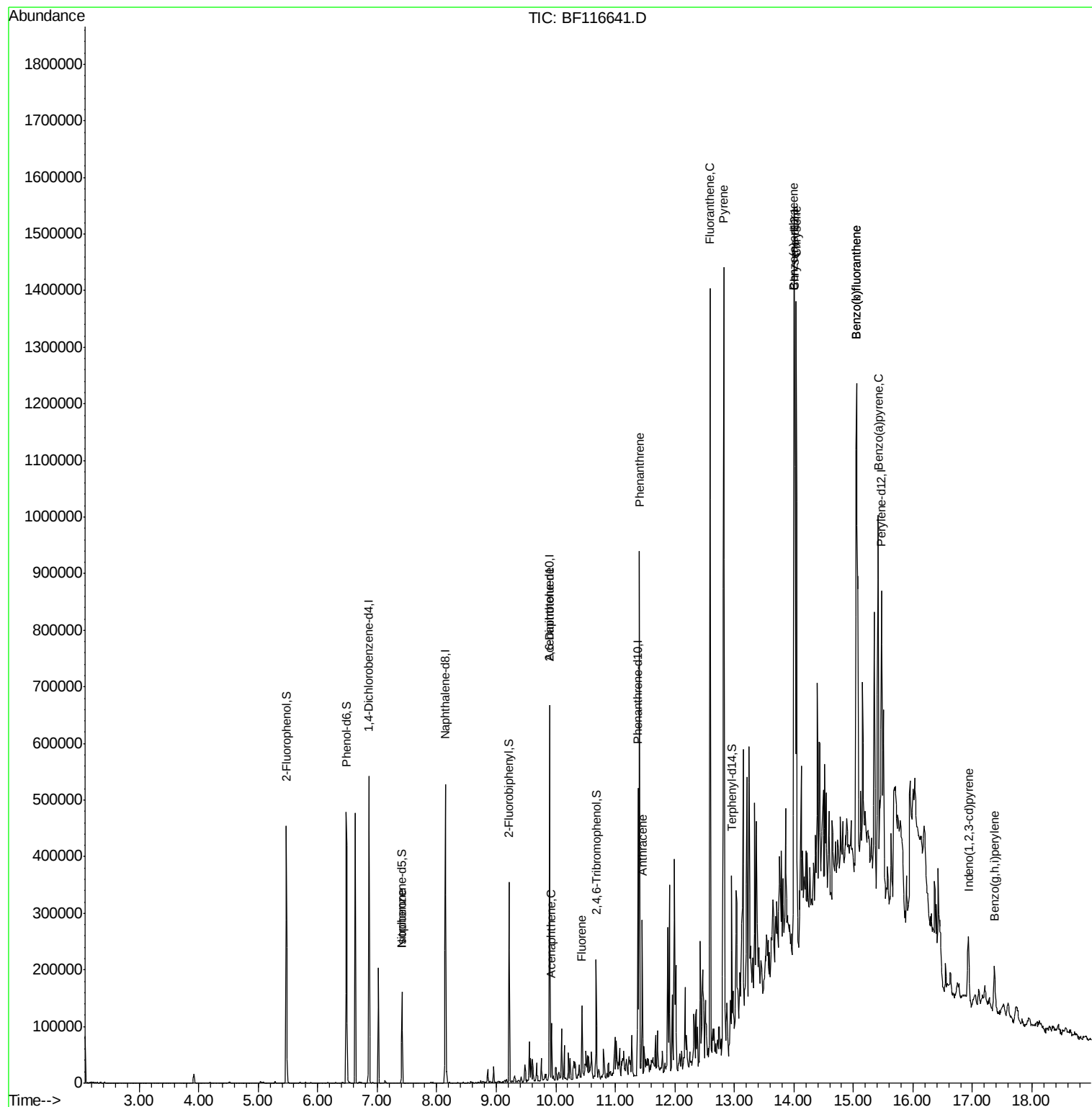
Target Compounds				Qvalue		
9) Benzaldehyde	6.49	77	220	Below Cal	#	1
25) Isophorone	7.42	82	43943	6.703	ng	# 65
51) 2,6-Dinitrotoluene	9.90	165	15366	9.345	ng	# 30
52) Acenaphthene	9.93	154	19822	3.037	ng	99
58) Fluorene	10.45	166	30784	4.614	ng	98
71) Phenanthrene	11.40	178	297483	32.427	ng	99
72) Anthracene	11.46	178	105909	11.546	ng	99
75) Fluoranthene	12.59	202	506807	61.599	ng	99
78) Pyrene	12.82	202	538173	32.104	ng	98
81) Benzo(a)anthracene	14.00	228	458366	37.712	ng	97
83) Chrysene	14.04	228	391570	32.909	ng	97
86) Indeno(1,2,3-cd)pyrene	16.93	276	73415	11.191	ng	# 92
88) Benzo(b)fluoranthene	15.05	252	651689	52.521	ng	95
89) Benzo(k)fluoranthene	15.05	252	651689	55.253	ng	# 94
90) Benzo(a)pyrene	15.42	252	297298	26.846	ng	97
92) Benzo(g,h,i)perylene	17.37	276	65022	6.052	ng	97

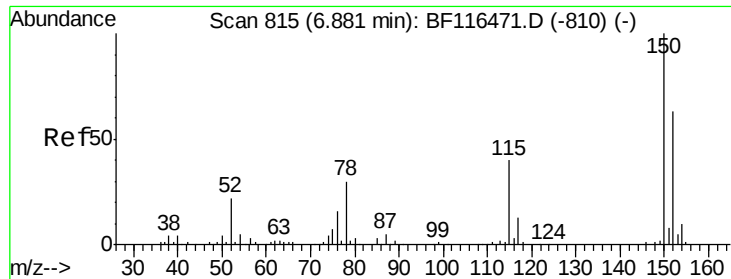
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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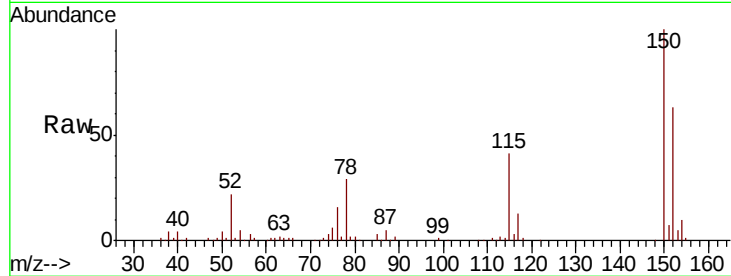


#1

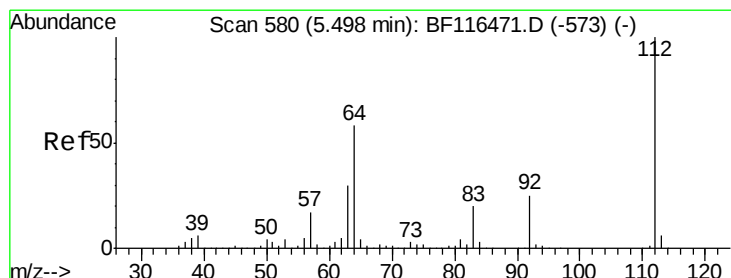
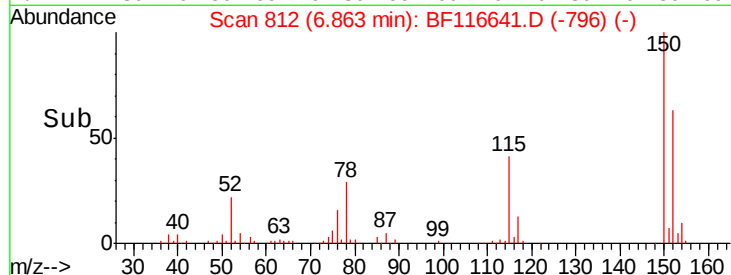
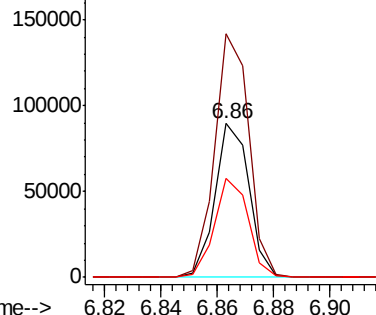
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF116641.D
Acq: 29 Aug 2019 3:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 75020
Ion Ratio Lower Upper
152 100
150 158.3 123.4 185.2
115 64.5 48.2 72.2



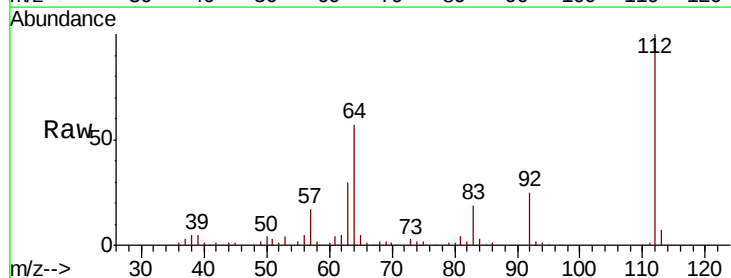
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



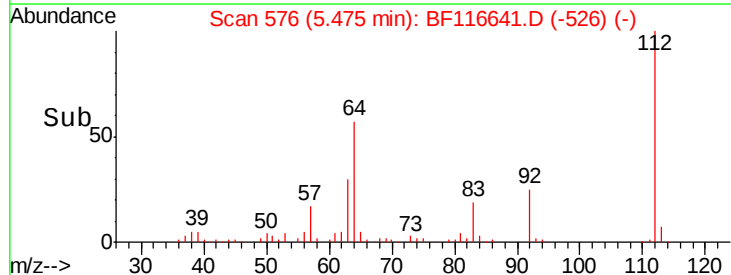
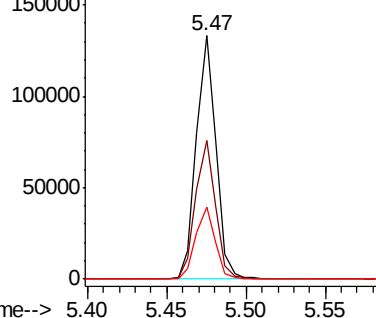
#5

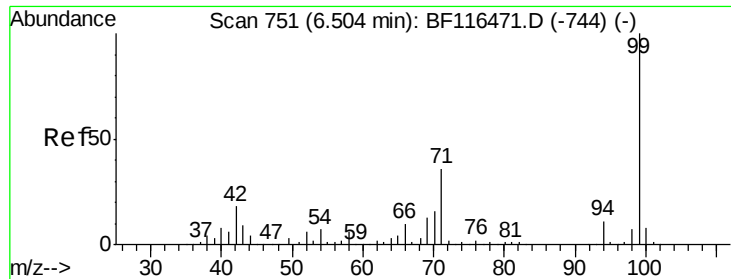
2-Fluorophenol
Concen: 26.430 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF116641.D
Acq: 29 Aug 2019 3:18

Tgt Ion:112 Resp: 114796
Ion Ratio Lower Upper
112 100
64 56.8 48.0 72.0
63 29.7 24.6 36.8



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: 26.193 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Instrument :

BNA_F

ClientSampleId :

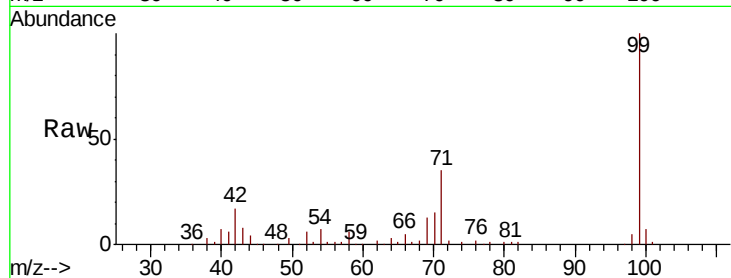
Tot Ion: 99 Resp: 154240

Ion Ratio Lower Upper

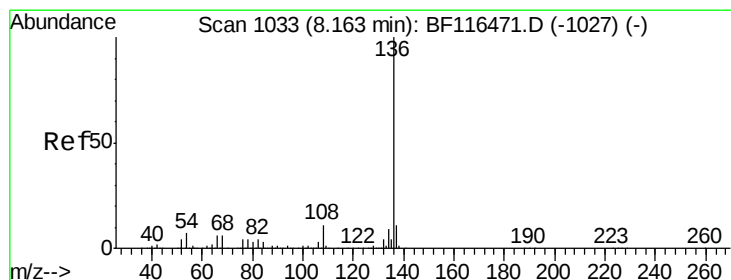
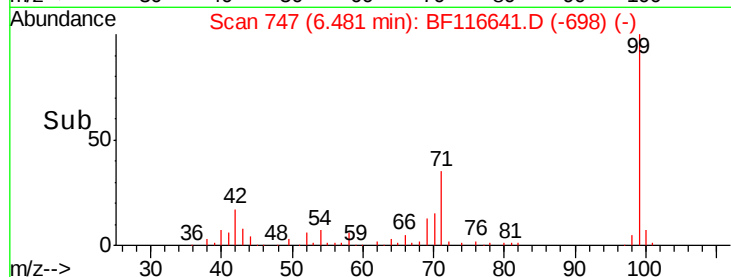
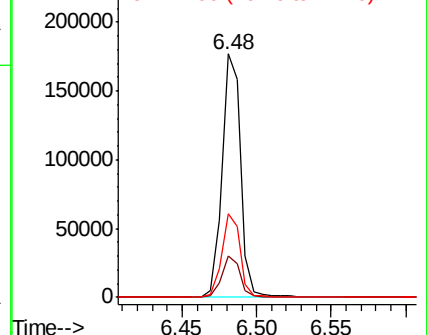
99 100

42 16.8 13.2 19.8

71 34.5 27.4 41.2



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Tgt Ion: 136 Resp: 206062

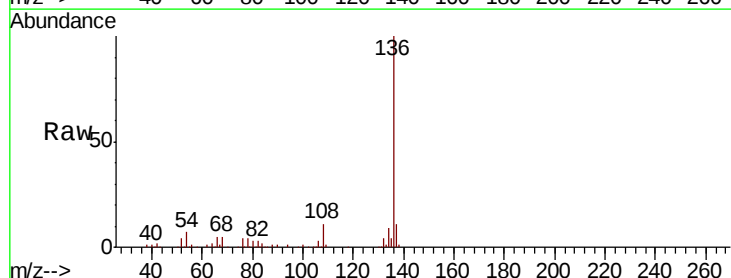
Ion Ratio Lower Upper

136 100

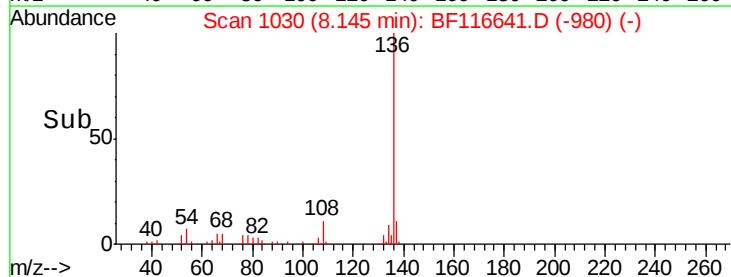
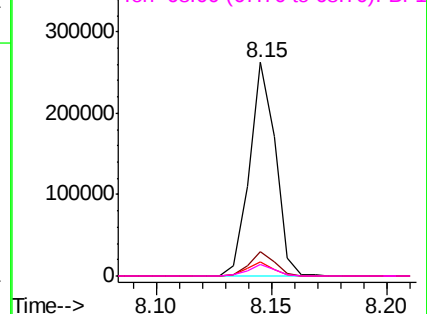
137 11.2 8.7 13.1

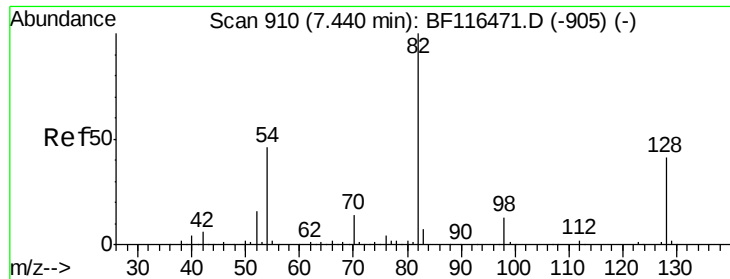
54 6.6 5.0 7.4

68 5.5 4.5 6.7



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

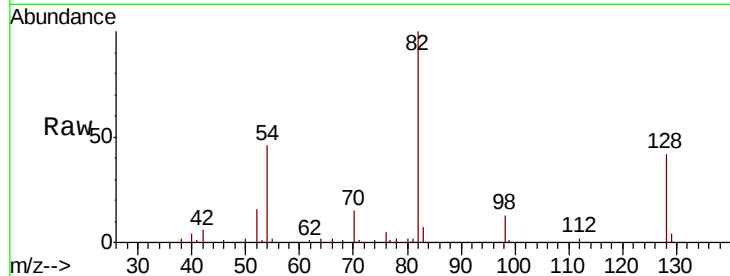




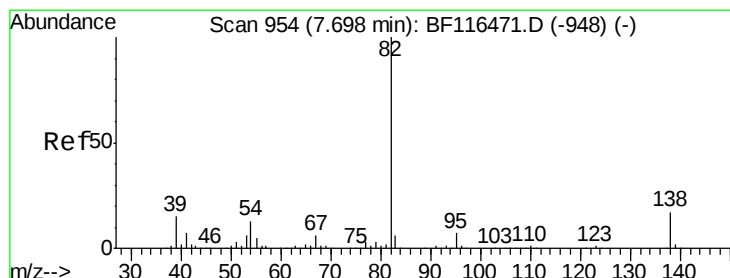
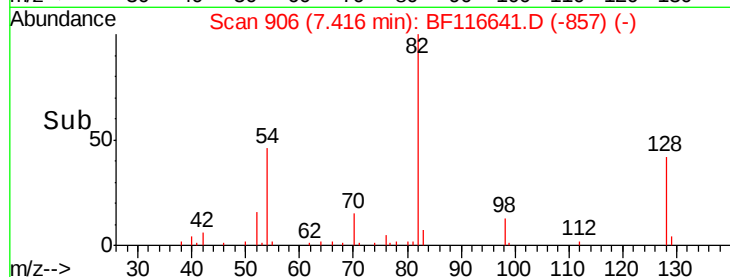
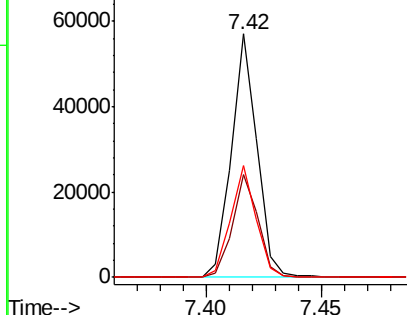
#23
 Nitrobenzene-d5
 Concen: 12.203 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: BF116641.D
 Acq: 29 Aug 2019 3:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	82	Resp	43944
Ion Ratio	100	Lower	Upper
128	42.1	35.0	52.6
54	45.8	34.4	51.6

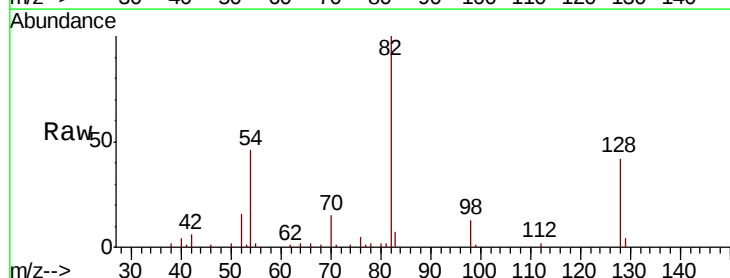


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

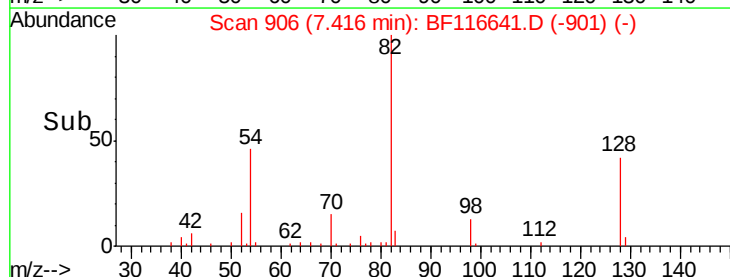
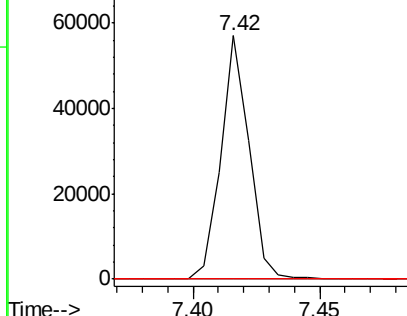


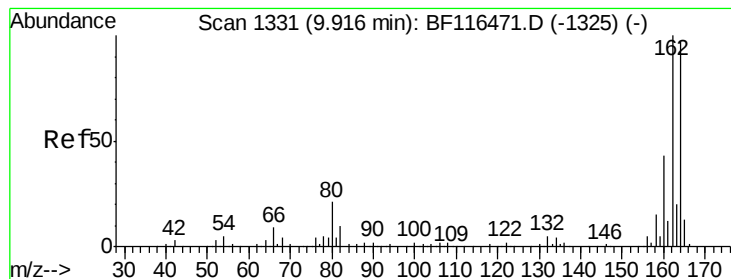
#25
 Isophorone
 Concen: 6.703 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.27 min
 Lab File: BF116641.D
 Acq: 29 Aug 2019 3:18

Tgt Ion	82	Resp	43943
Ion Ratio	100	Lower	Upper
95	0.0	5.6	8.4#
138	0.0	14.4	21.6#



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: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Instrument :

BNA_F

ClientSampleId :

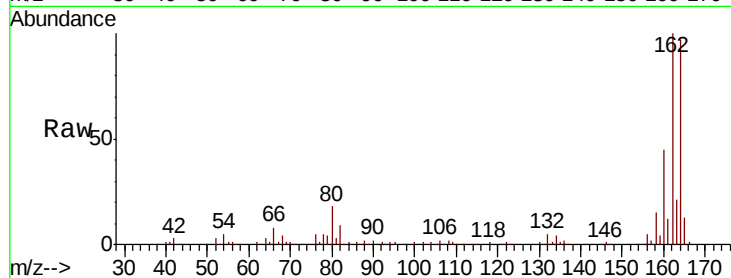
Tot Ion:164 Resp: 110919

Ion Ratio Lower Upper

164 100

162 103.2 83.4 125.0

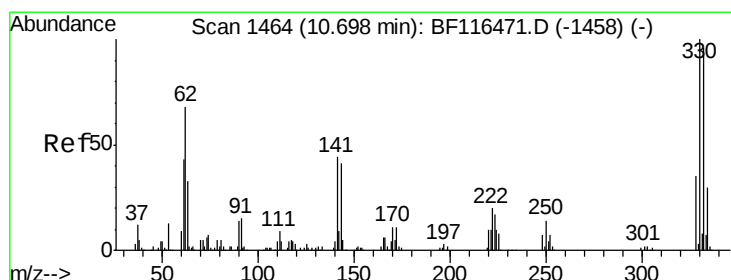
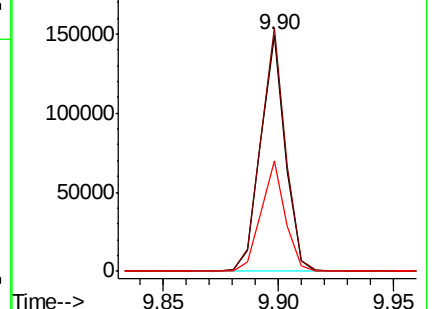
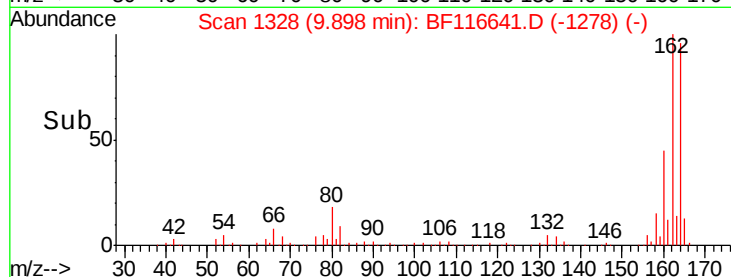
160 46.7 37.0 55.4



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: 15.707 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

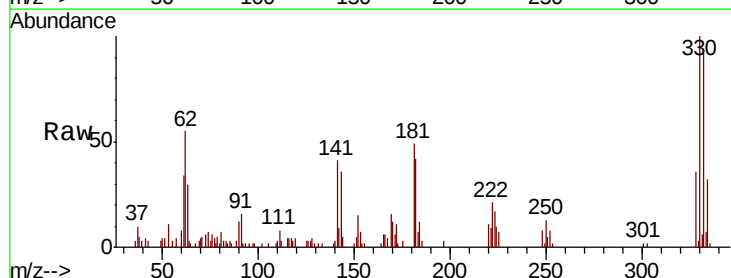
Tgt Ion:330 Resp: 16579

Ion Ratio Lower Upper

330 100

332 90.2 77.5 116.3

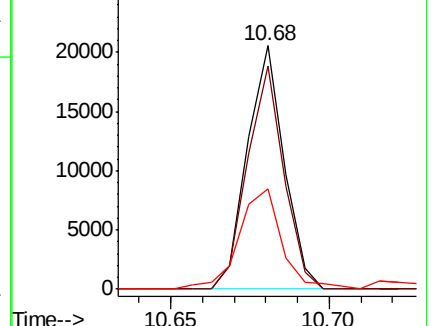
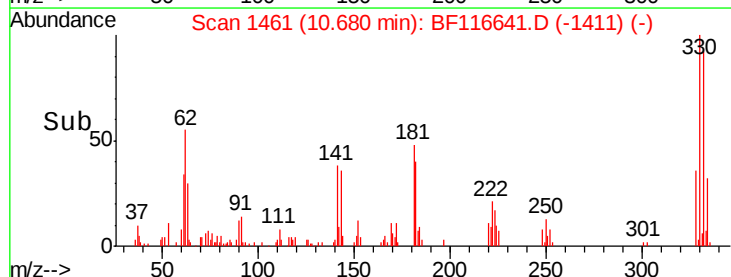
141 47.9 28.2 42.2#

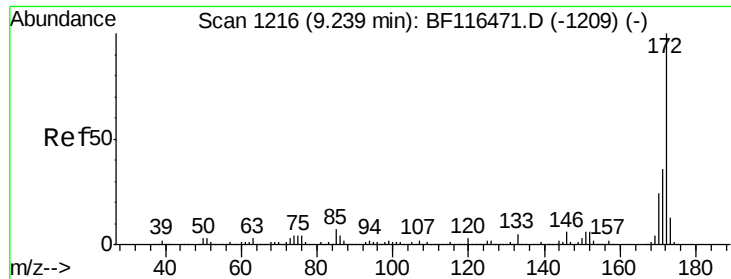


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

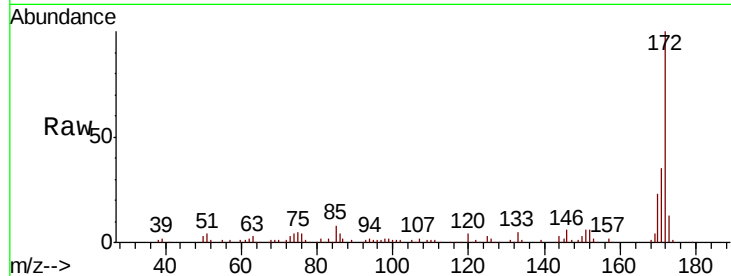




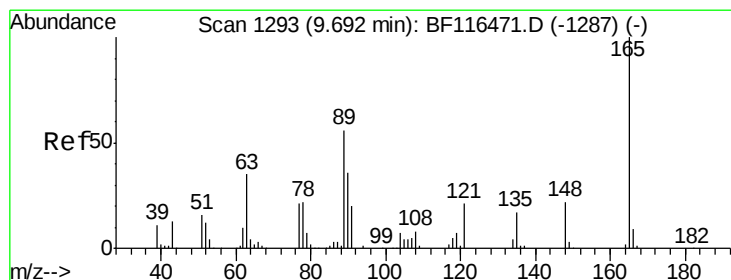
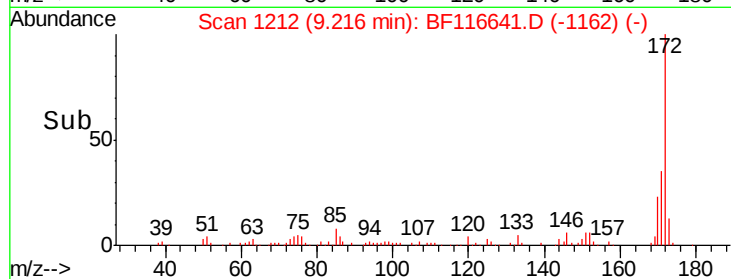
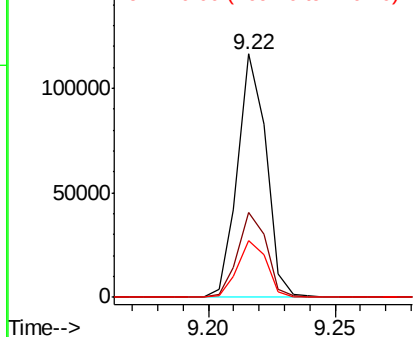
#45
 2-Fluorobiphenyl
 Concen: 13.673 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF116641.D
 Acq: 29 Aug 2019 3:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 91128
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.0 43.6
 170 23.1 19.3 28.9

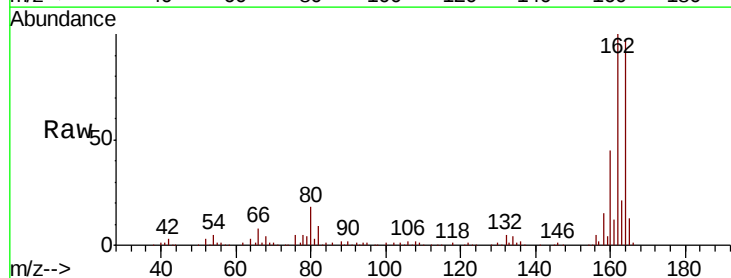


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

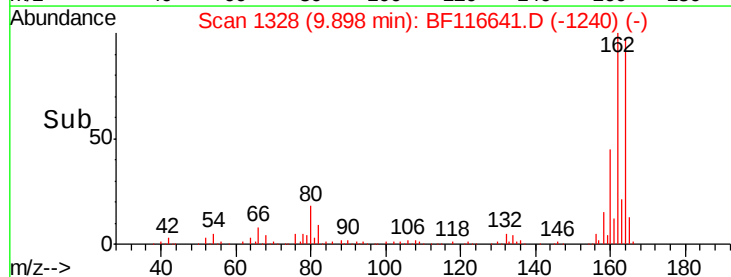
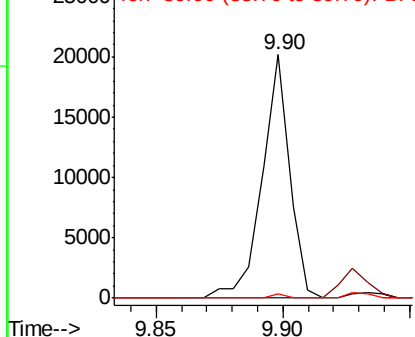


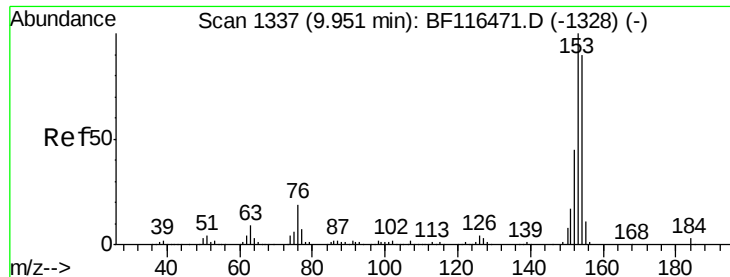
#51
 2,6-Dinitrotoluene
 Concen: 9.345 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. 0.22 min
 Lab File: BF116641.D
 Acq: 29 Aug 2019 3:18

Tgt Ion:165 Resp: 15366
 Ion Ratio Lower Upper
 165 100
 63 0.0 37.2 55.8#
 89 1.9 40.8 61.2#



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: 3.037 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Instrument :

BNA_F

ClientSampleId :

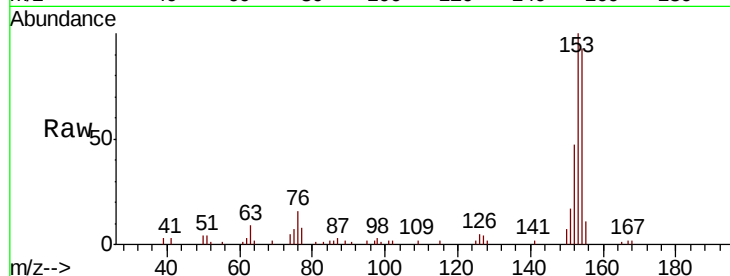
Tot Ion:154 Resp: 19822

Ion Ratio Lower Upper

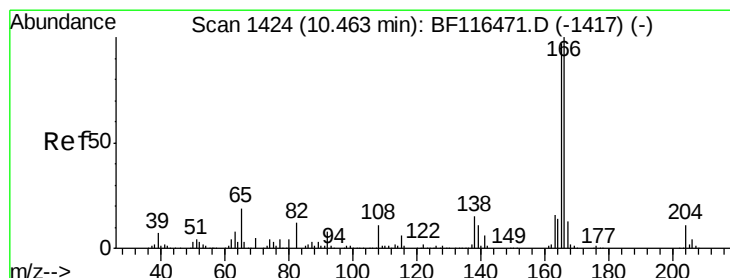
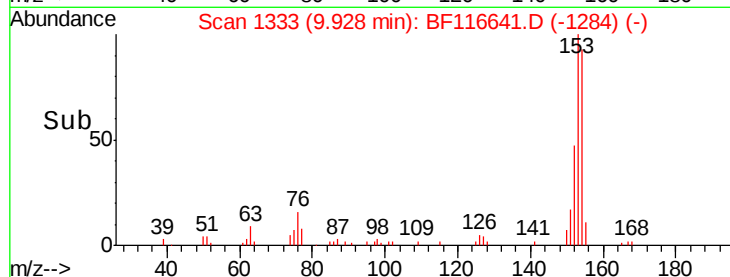
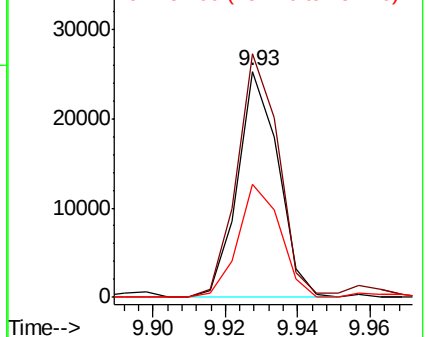
154 100

153 107.6 86.6 129.8

152 50.2 39.4 59.0



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



#58

Fluorene

Concen: 4.614 ng

RT: 10.45 min Scan# 1421

Delta R.T. -0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

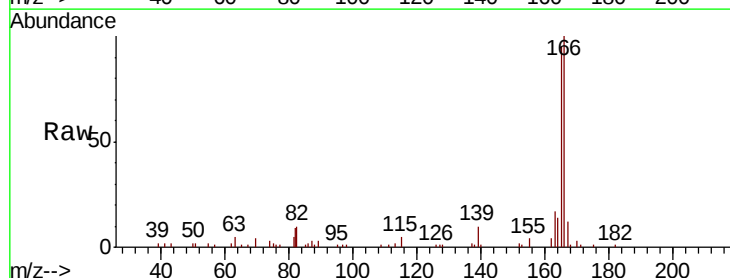
Tgt Ion:166 Resp: 30784

Ion Ratio Lower Upper

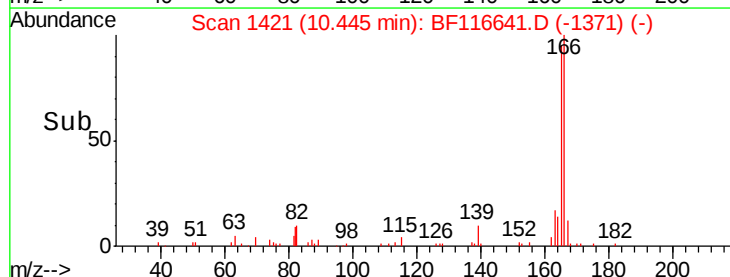
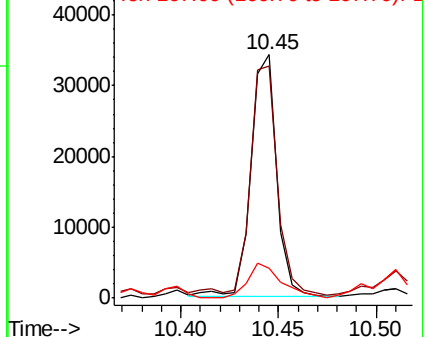
166 100

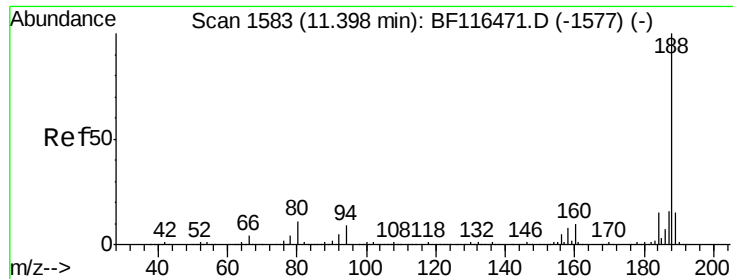
165 95.3 77.8 116.6

167 12.3 10.6 16.0



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

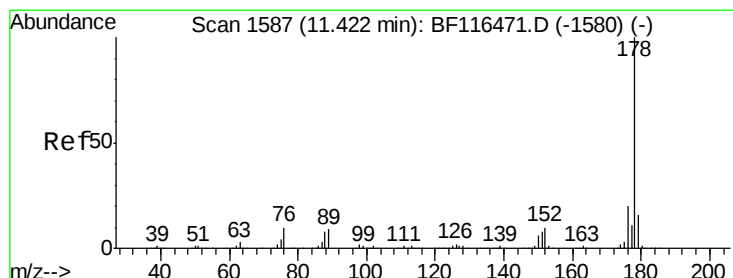
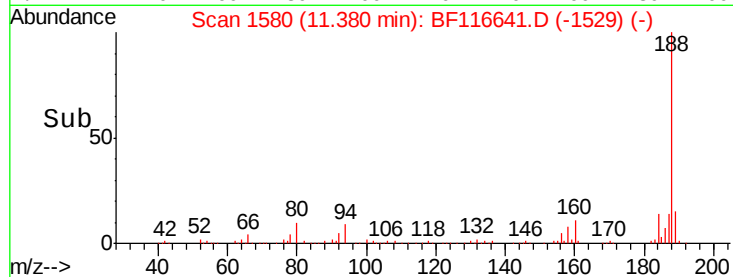
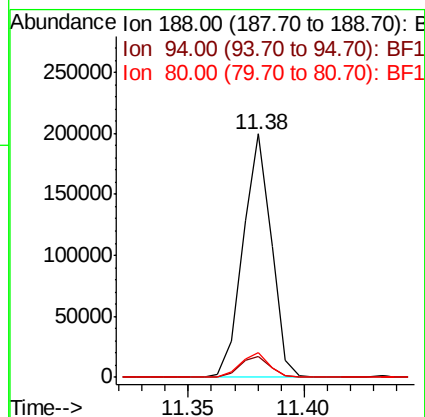
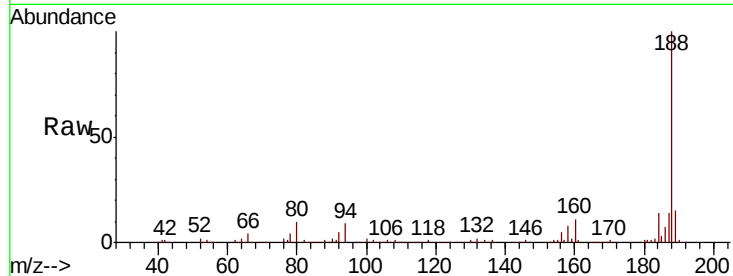




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF116641.D
Acq: 29 Aug 2019 3:18

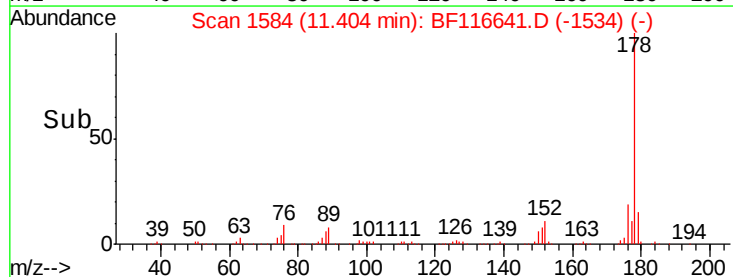
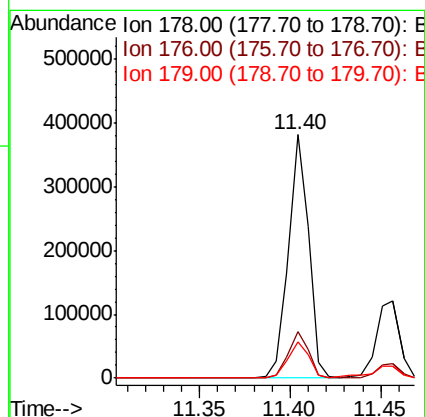
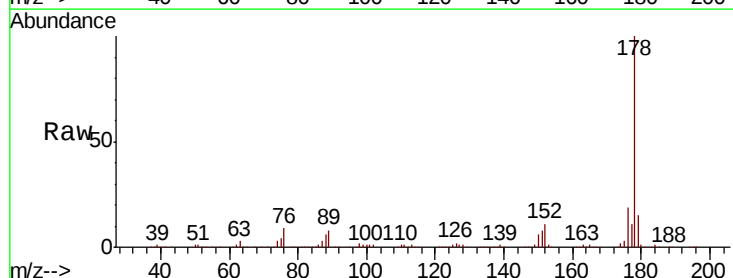
Instrument :
BNA_F
ClientSampled :

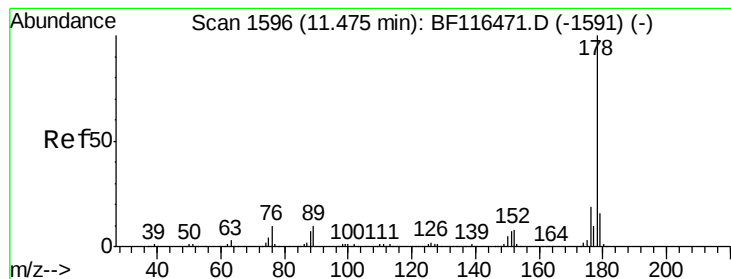
Tot Ion:188 Resp: 170796
Ion Ratio Lower Upper
188 100
94 8.8 8.2 12.4
80 10.2 8.9 13.3



#71
Phenanthrene
Concen: 32.427 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF116641.D
Acq: 29 Aug 2019 3:18

Tgt Ion:178 Resp: 297483
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 14.9 12.4 18.6





#72

Anthracene

Concen: 11.546 ng

RT: 11.46 min Scan# 1593

Delta R.T. 0.00 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Instrument :

BNA_F

ClientSampleId :

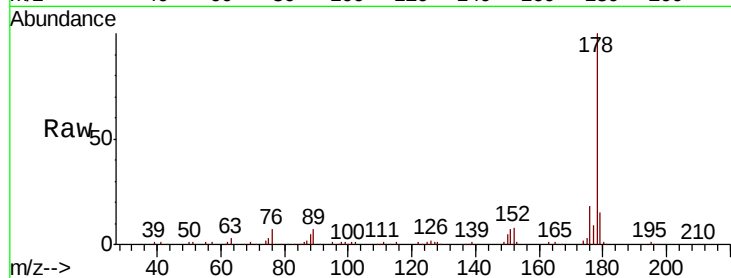
Tot Ion:178 Resp: 105909

Ion Ratio Lower Upper

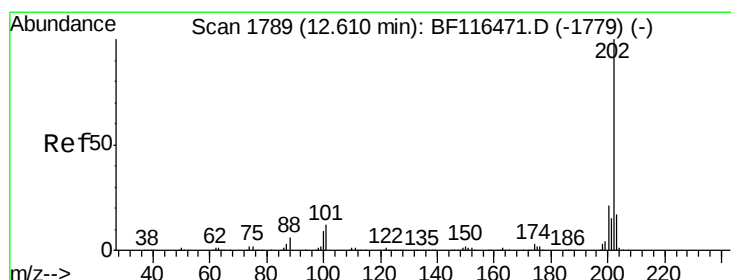
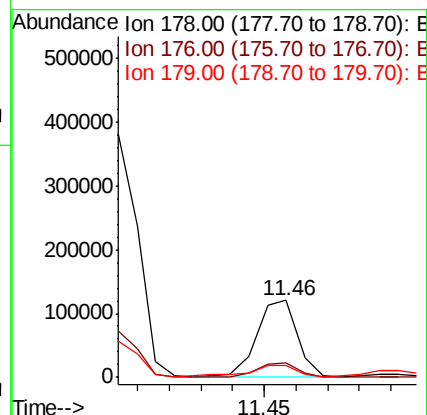
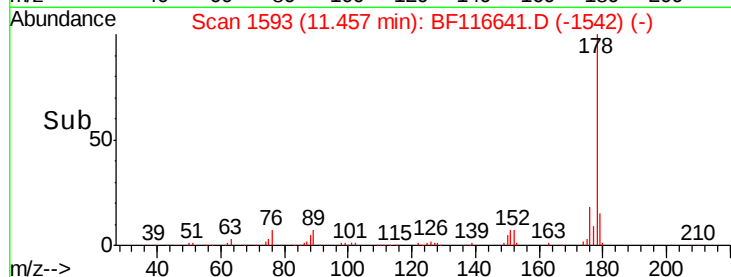
178 100

176 18.4 15.1 22.7

179 15.1 12.7 19.1



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: 61.599 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

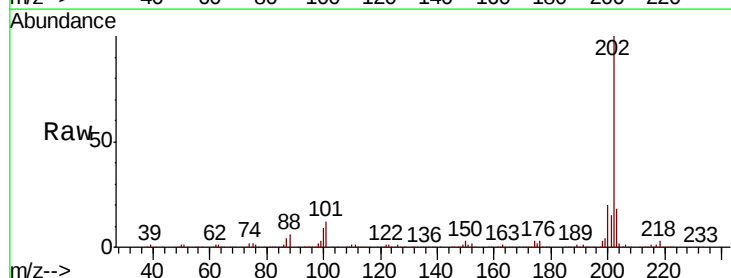
Tgt Ion:202 Resp: 506807

Ion Ratio Lower Upper

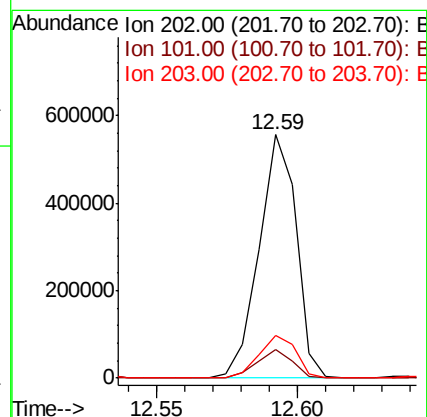
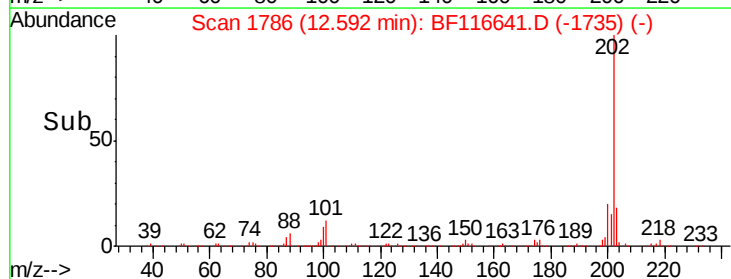
202 100

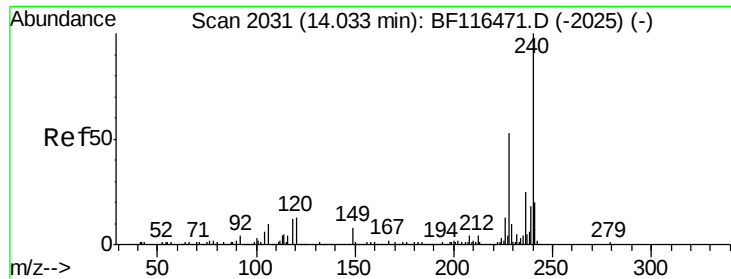
101 11.9 0.0 31.8

203 17.7 0.0 37.1



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: 14.02 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Instrument :

BNA_F

ClientSampled :

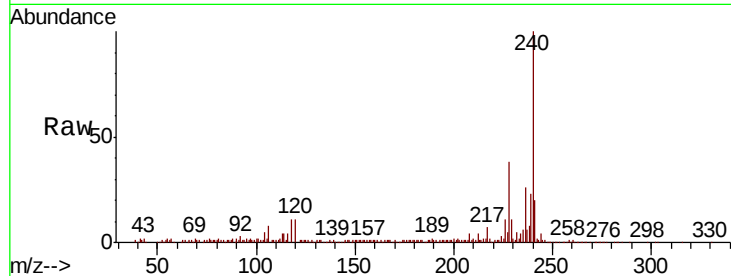
Tot Ion:240 Resp: 182303

Ion Ratio Lower Upper

240 100

120 11.1 11.3 16.9#

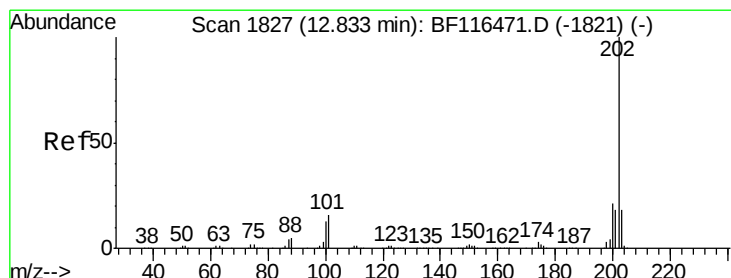
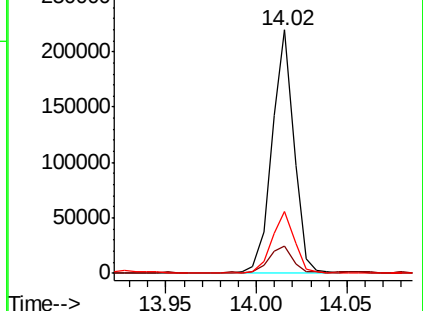
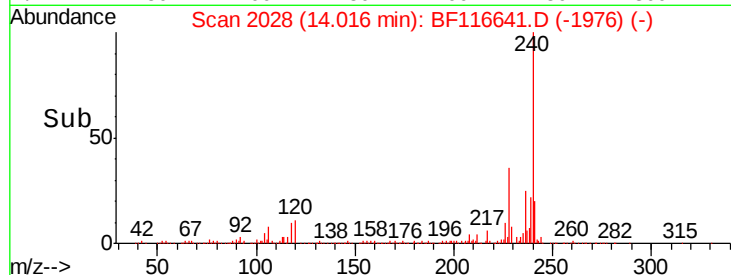
236 25.6 21.4 32.2



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

Pyrene

Concen: 32.104 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

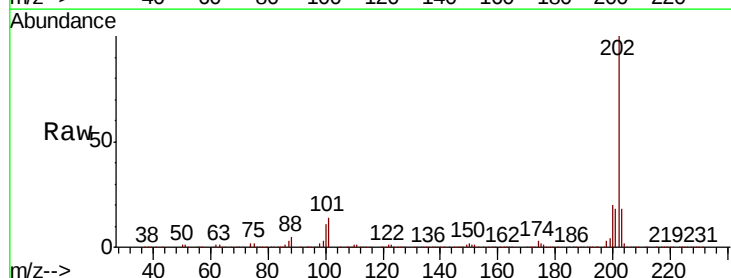
Tgt Ion:202 Resp: 538173

Ion Ratio Lower Upper

202 100

200 20.5 17.4 26.0

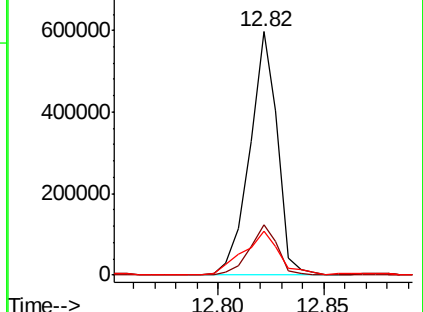
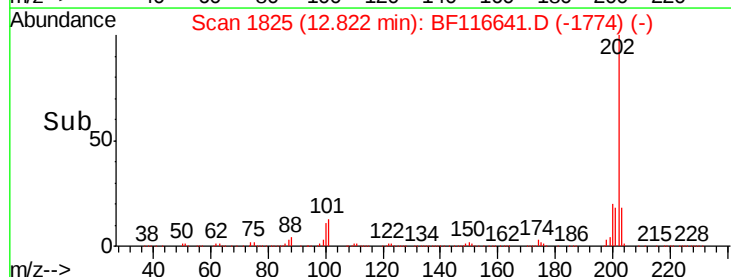
203 18.1 14.2 21.4

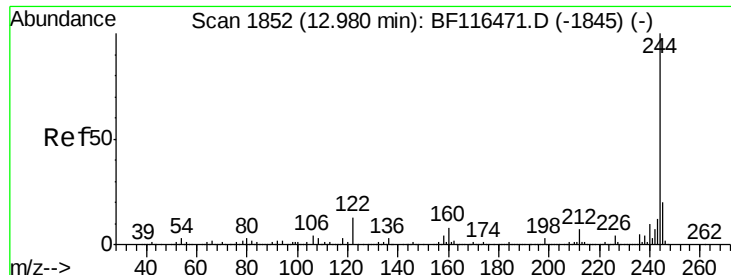


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

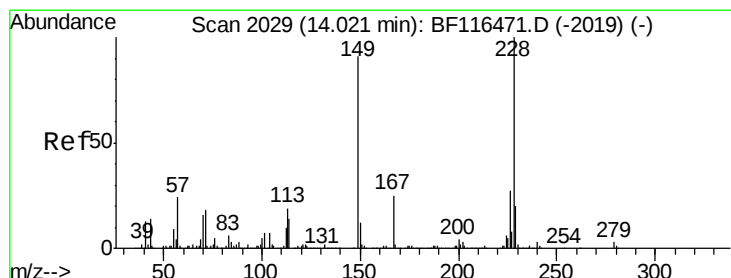
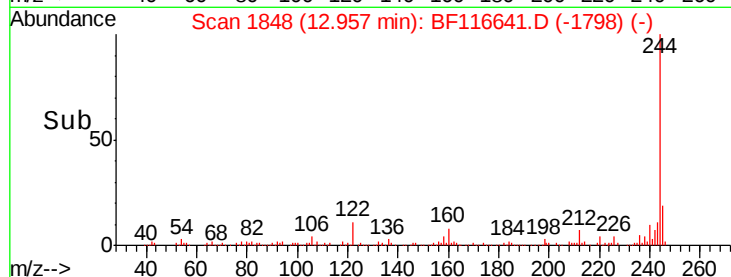
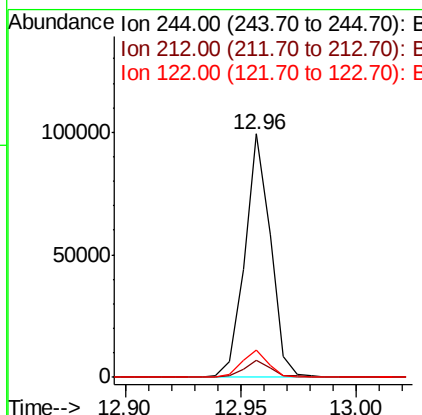
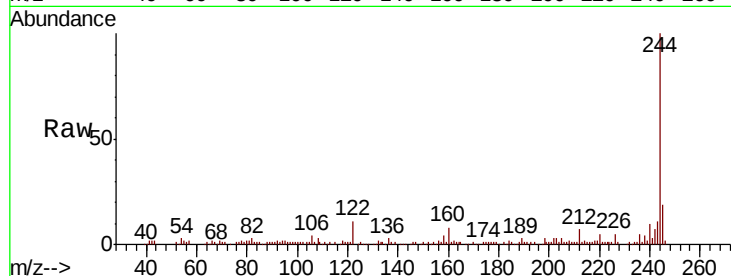




#79
 Terphenyl-d14
 Concen: 6.878 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. -0.01 min
 Lab File: BF116641.D
 Acq: 29 Aug 2019 3:18

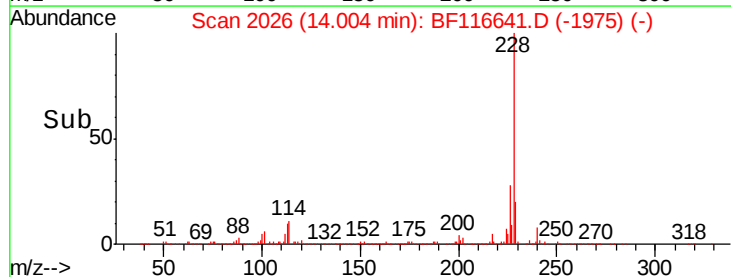
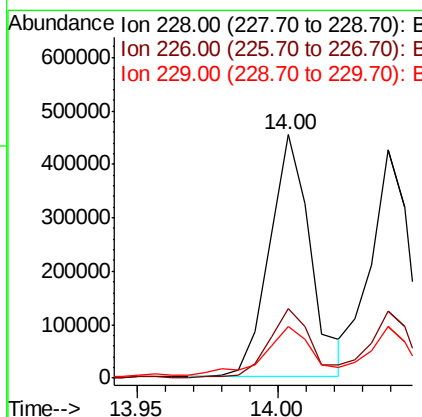
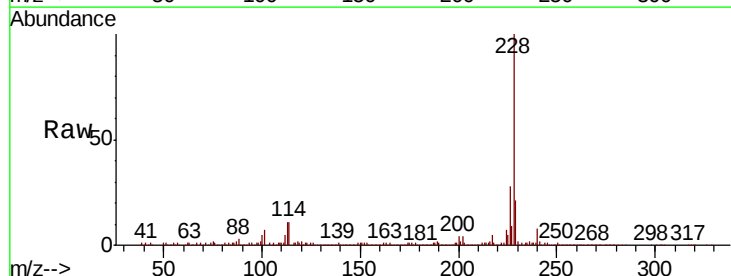
Instrument :
 BNA_F
 ClientSampleId :

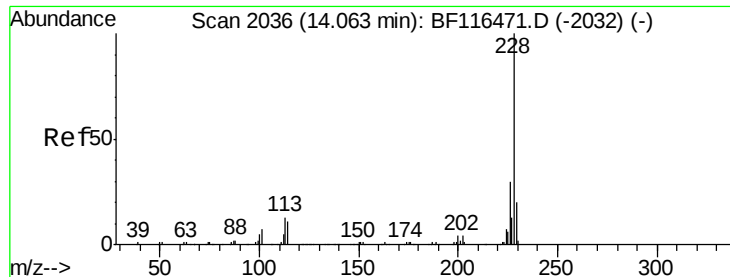
Tot Ion:244 Resp: 77095
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.9 8.9
 122 11.1 10.0 15.0



#81
 Benzo(a)anthracene
 Concen: 37.712 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. 0.00 min
 Lab File: BF116641.D
 Acq: 29 Aug 2019 3:18

Tgt Ion:228 Resp: 458366
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.5 32.3
 229 21.0 15.4 23.0





#83

Chrysene

Concen: 32.909 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

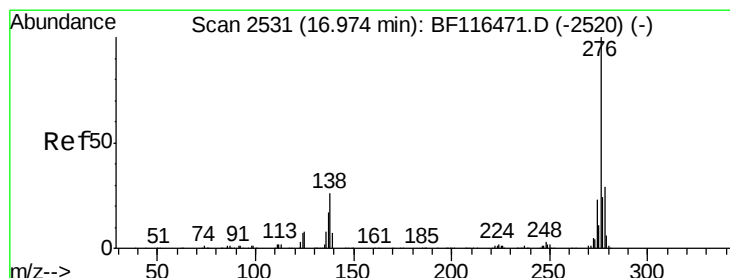
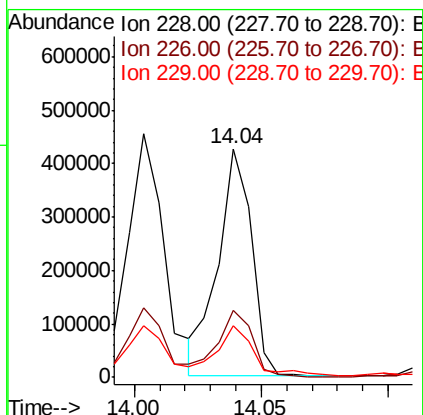
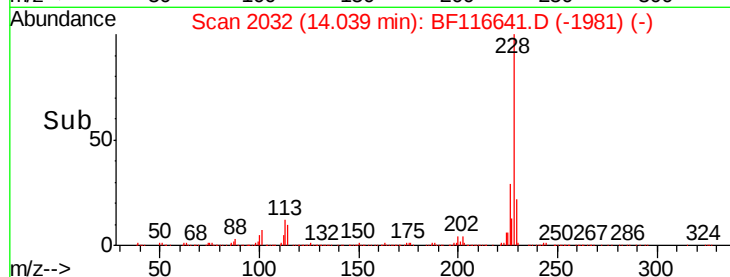
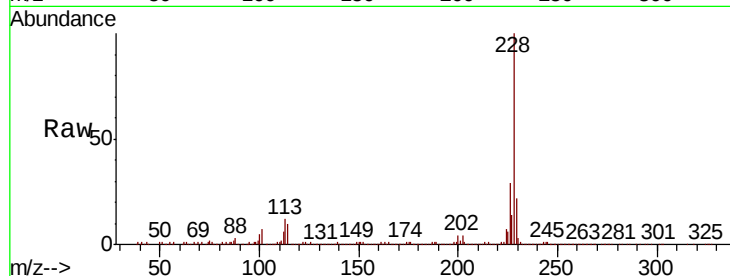
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 391570

Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.0	36.0
229	22.3	15.8	23.8



#86

Indeno(1,2,3-cd)pyrene

Concen: 11.191 ng

RT: 16.93 min Scan# 2523

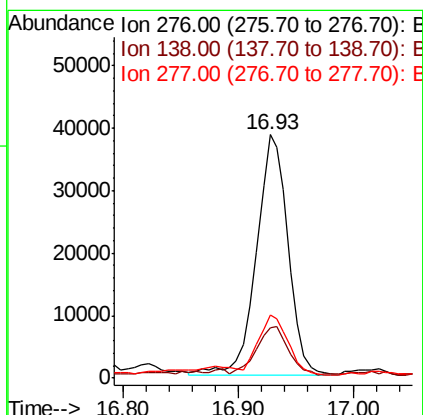
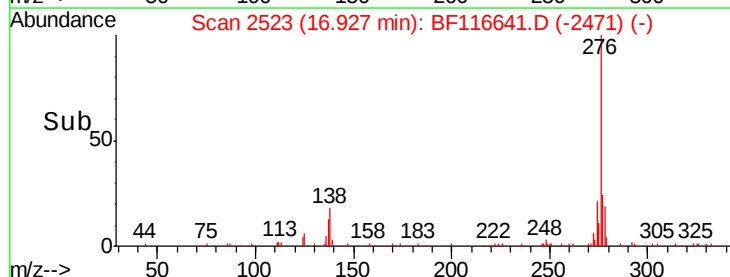
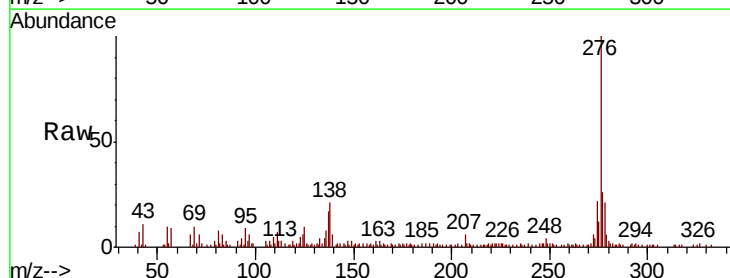
Delta R.T. 0.01 min

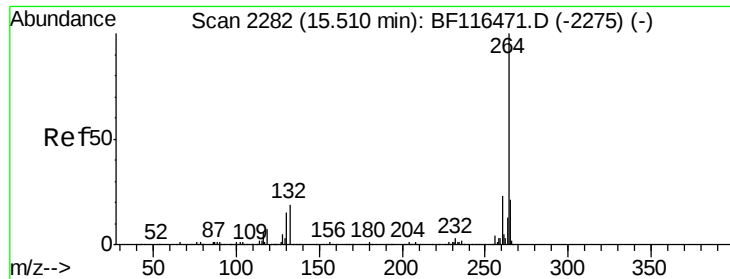
Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Tgt Ion:276 Resp: 73415

Ion	Ratio	Lower	Upper
276	100		
138	19.9	21.5	32.3#
277	24.0	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. 0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

Instrument :

BNA_F

ClientSampleId :

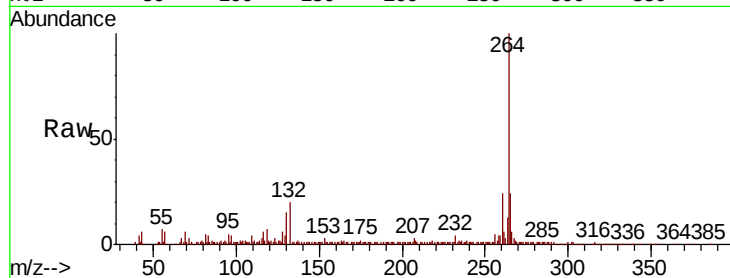
Tot Ion:264 Resp: 202056

Ion Ratio Lower Upper

264 100

260 24.4 20.0 30.0

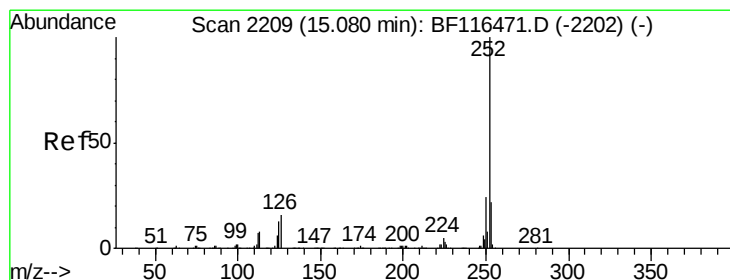
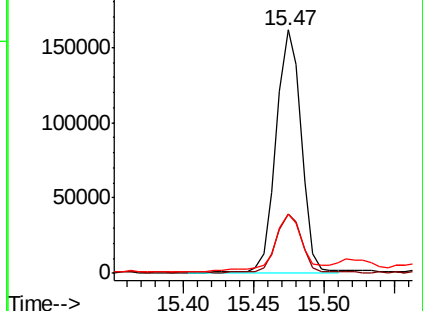
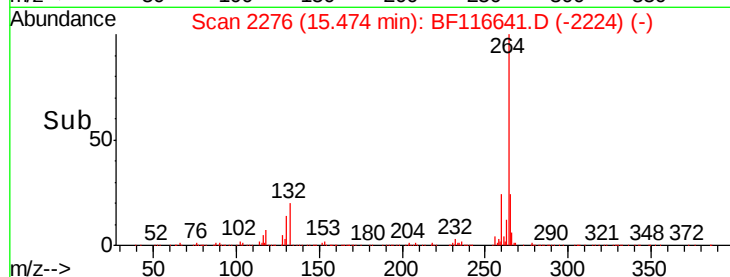
265 24.2 17.6 26.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 52.521 ng

RT: 15.05 min Scan# 2204

Delta R.T. 0.01 min

Lab File: BF116641.D

Acq: 29 Aug 2019 3:18

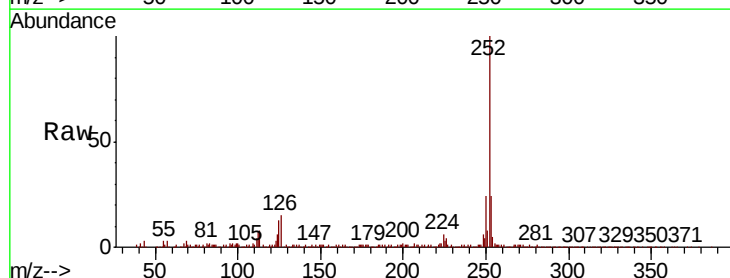
Tgt Ion:252 Resp: 651689

Ion Ratio Lower Upper

252 100

253 24.3 17.3 25.9

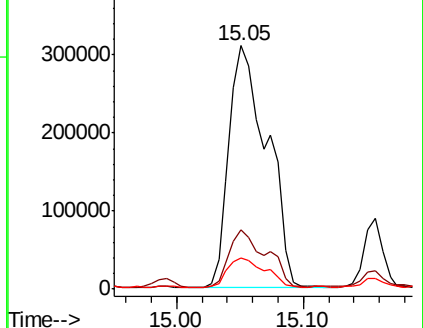
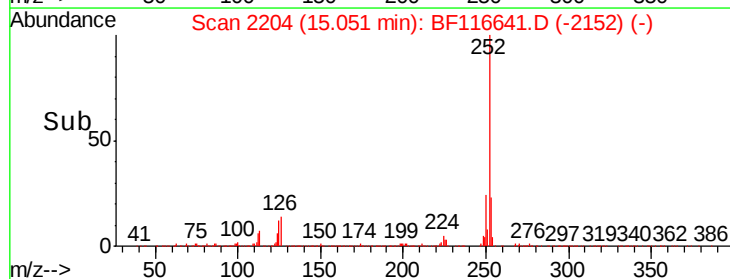
125 13.0 9.0 13.6

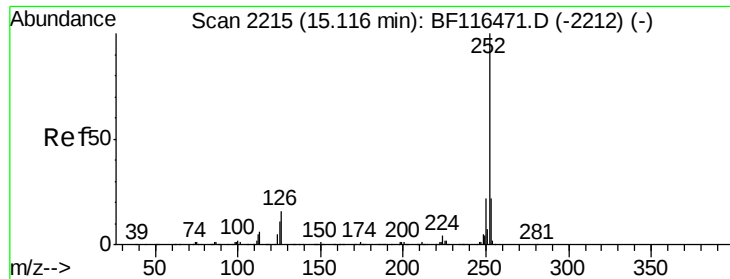


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

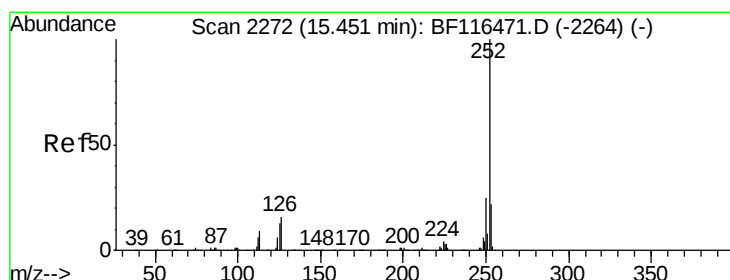
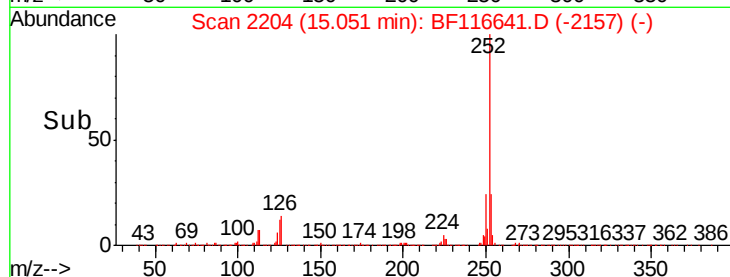
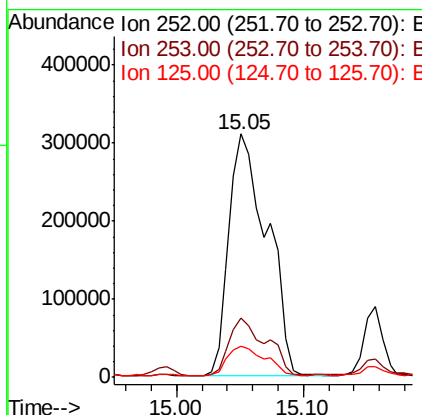
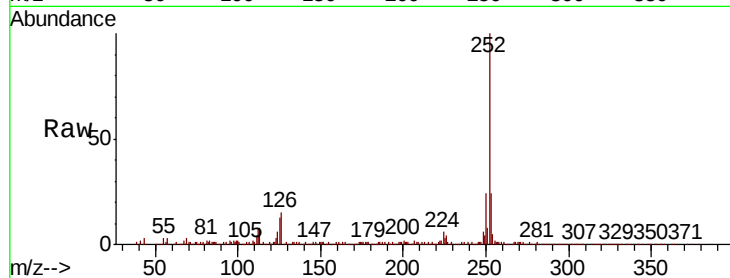




#89
Benzo(k)fluoranthene
Concen: 55.253 ng
RT: 15.05 min Scan# 2204
Delta R.T. -0.02 min
Lab File: BF116641.D
Acq: 29 Aug 2019 3:18

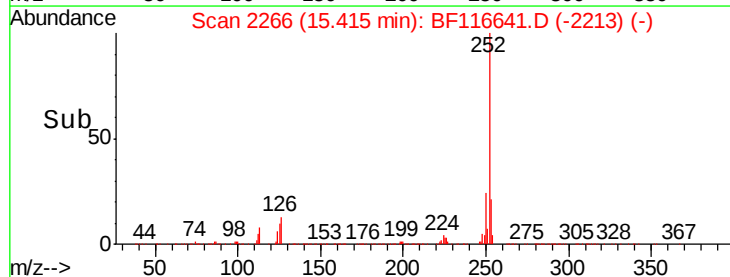
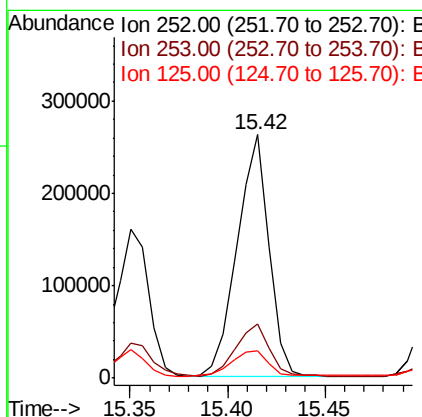
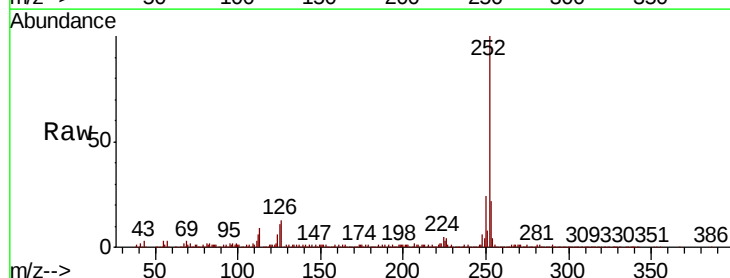
Instrument :
BNA_F
ClientSampleId :

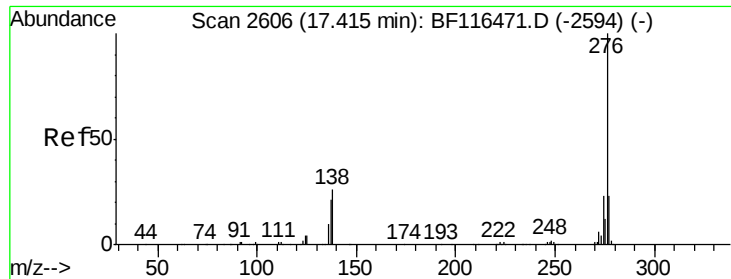
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.2	25.8
125	13.0	8.6	13.0#



#90
Benzo(a)pyrene
Concen: 26.846 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.01 min
Lab File: BF116641.D
Acq: 29 Aug 2019 3:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.0
125	11.2	10.6	16.0

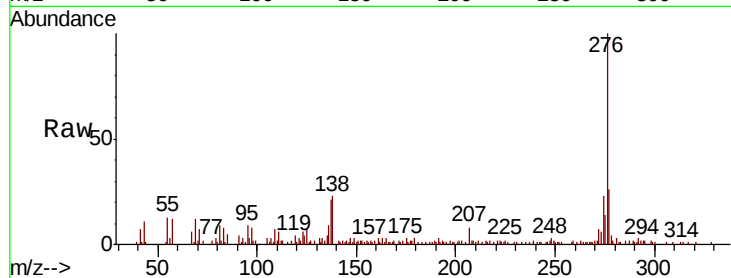




#92
 Benzo(a,h,i)perylene
 Concen: 6.052 ng
 RT: 17.37 min Scan# 2598
 Delta R.T. 0.01 min
 Lab File: BF116641.D
 Acq: 29 Aug 2019 3:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276	Resp:	65022
Ion	Ratio	Lower Upper
276	100	
277	26.1	19.0 28.4
138	23.2	18.2 27.2



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

