

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
 Data File : BF116702.D
 Acq On : 31 Aug 2019 16:33
 Operator : HP/JU
 Sample : K4090-19 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Quant Time: Sep 01 00:43:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	119089	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	483702	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	239405	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	343059	20.00	ng	0.00
76) Chrysene-d12	13.99	240	232533	20.00	ng	0.00
87) Perylene-d12	15.45	264	279718	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	133243	18.13	ng	-0.01
7) Phenol-d6	6.46	99	182973	18.96	ng	-0.02
23) Nitrobenzene-d5	7.40	82	106527	12.57	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	25949	16.21	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	200202	14.11	ng	-0.01
79) Terphenyl-d14	12.94	244	144402	11.49	ng	-0.01

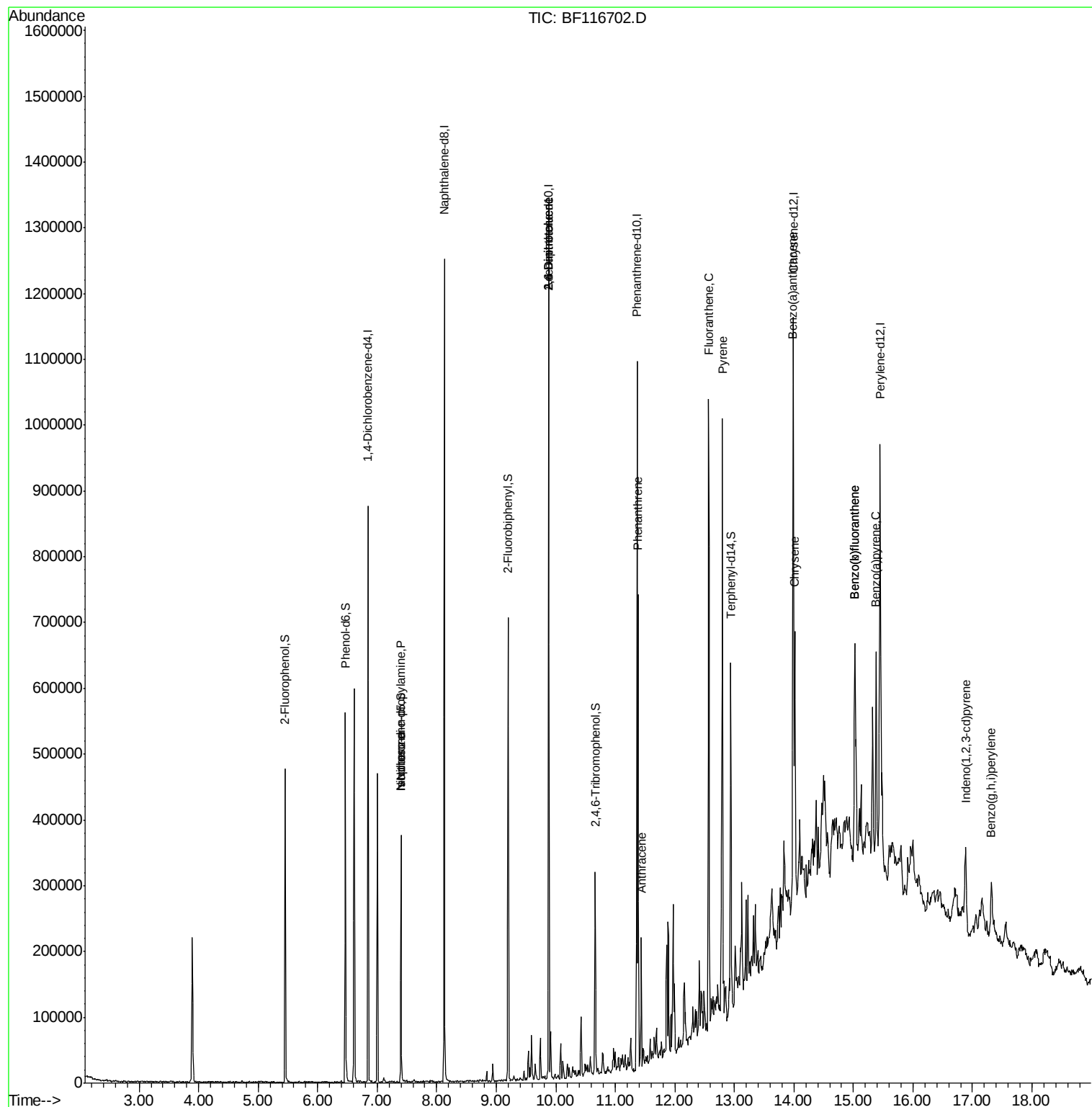
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	14923	2.348	ng	# 74
25) Isophorone	7.40	82	106524	6.204	ng	# 66
51) 2,6-Dinitrotoluene	9.88	165	31118	9.868	ng	# 21
57) 2,4-Dinitrotoluene	9.88	165	31118	8.070	ng	# 21
71) Phenanthrene	11.39	178	244332	12.794	ng	100
72) Anthracene	11.43	178	70095	3.646	ng	97
75) Fluoranthene	12.57	202	353476	18.834	ng	97
78) Pyrene	12.80	202	339179	16.409	ng	99
81) Benzo(a)anthracene	13.98	228	165663	11.257	ng	95
83) Chrysene	14.02	228	148445	9.791	ng	97
86) Indeno(1,2,3-cd)pyrene	16.89	276	67691	5.558	ng	96
88) Benzo(b)fluoranthene	15.03	252	248702	14.706	ng	# 95
89) Benzo(k)fluoranthene	15.03	252	248702	16.129	ng	# 96
90) Benzo(a)pyrene	15.39	252	146140	9.933	ng	# 96
92) Benzo(a,h,i)perylene	17.32	276	59461	4.527	ng	# 88

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

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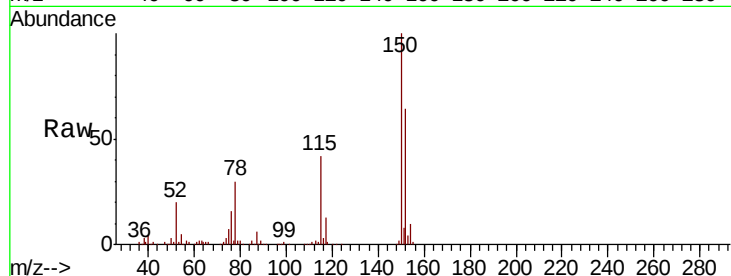


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Instrument :
BNA_F
ClientSampleId :
OR-02-082919

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.4	186.6
115	65.0	49.9	74.9

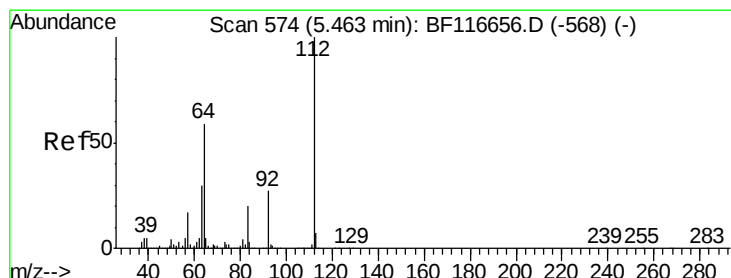
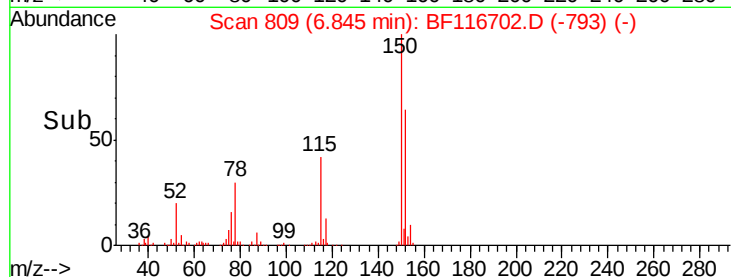
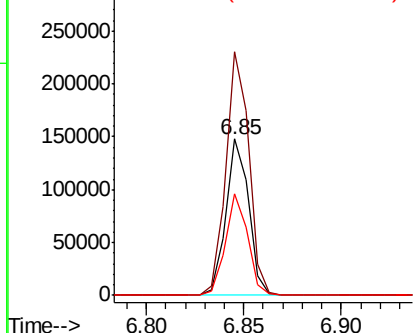


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

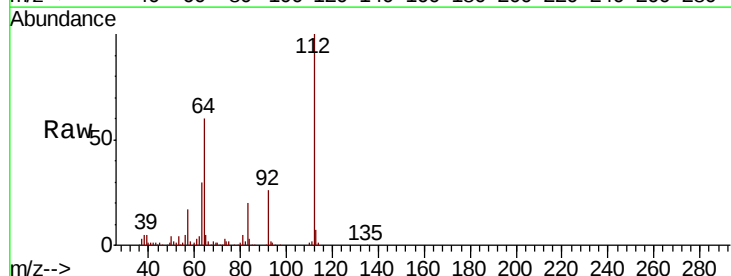
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 18.126 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.6	47.1	70.7
63	29.6	24.9	37.3

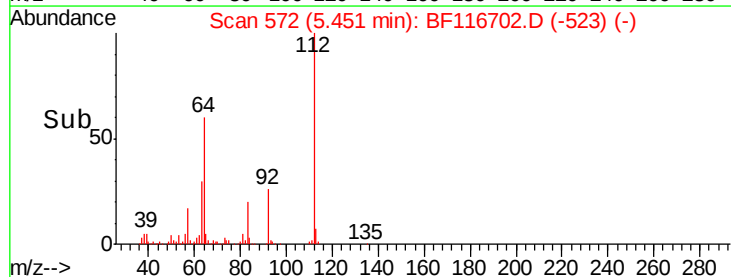
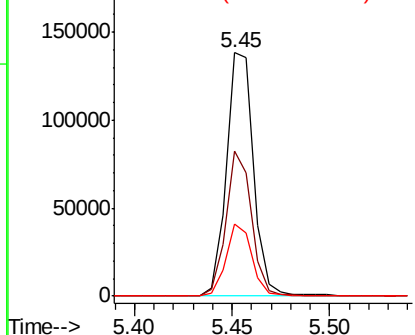


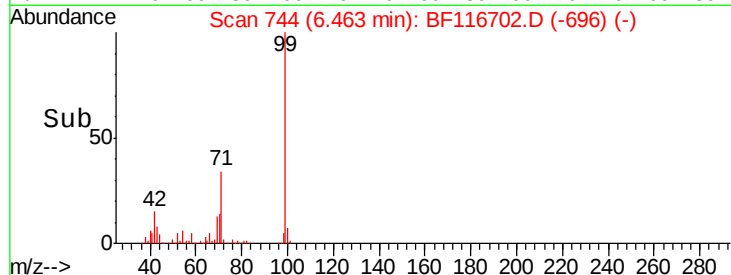
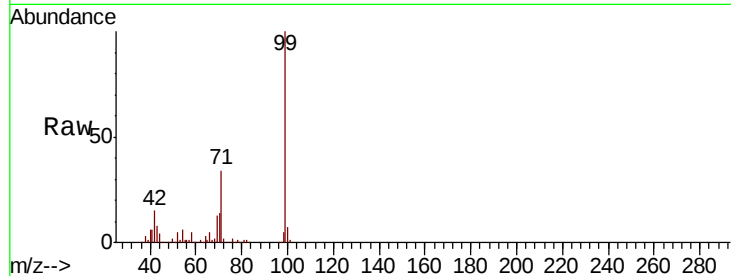
Abundance

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: 18.956 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.02 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

ClientSampleId :

OR-02-082919

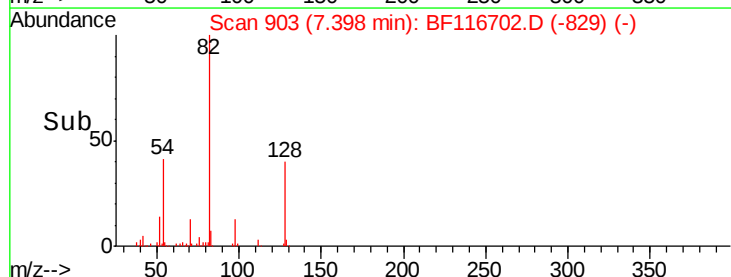
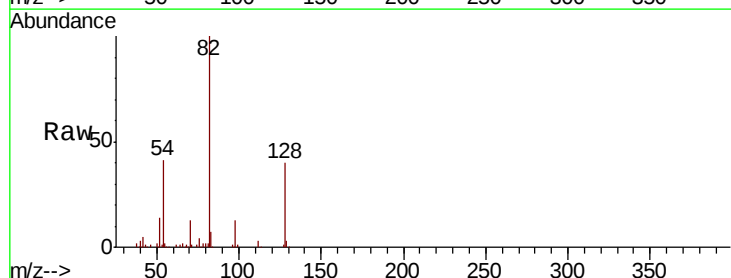
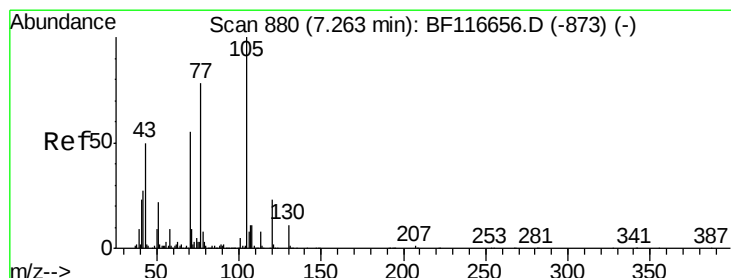
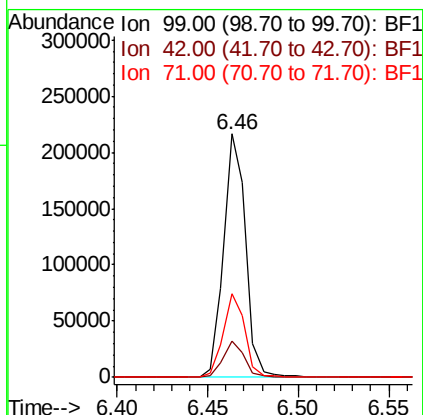
Tot Ion: 99 Resp: 182973

Ion Ratio Lower Upper

99 100

42 14.7 13.7 20.5

71 34.3 30.8 46.2



#19

n-Nitroso-di-n-propylamine

Concen: 2.348 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.14 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Tgt Ion: 70 Resp: 14923

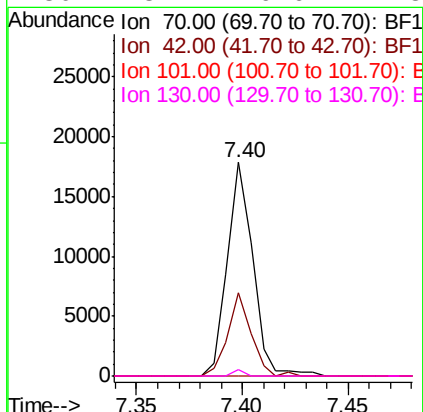
Ion Ratio Lower Upper

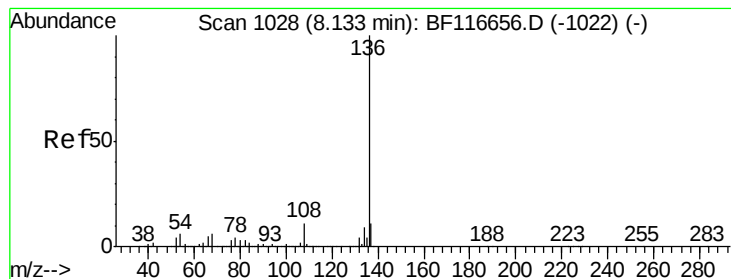
70 100

42 38.7 43.5 65.3#

101 0.0 7.8 11.6#

130 3.2 16.6 24.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

ClientSampleId :

OR-02-082919

Tot Ion:136 Resp: 483702

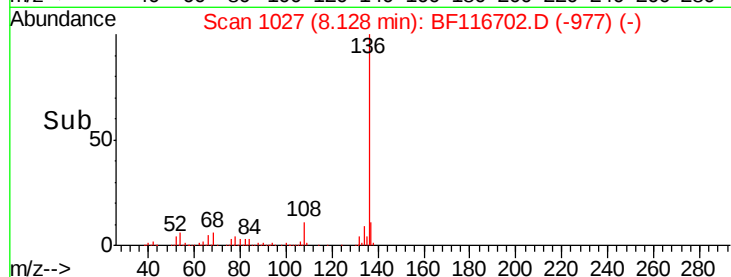
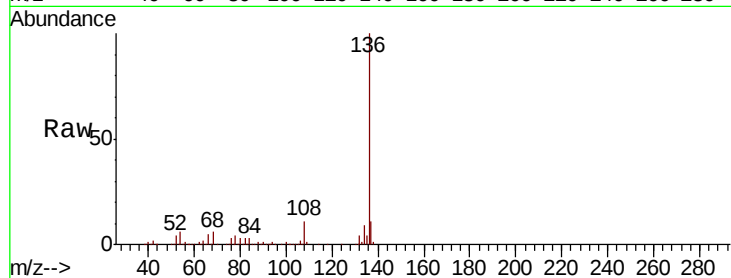
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 6.1 4.8 7.2

68 5.8 4.0 6.0

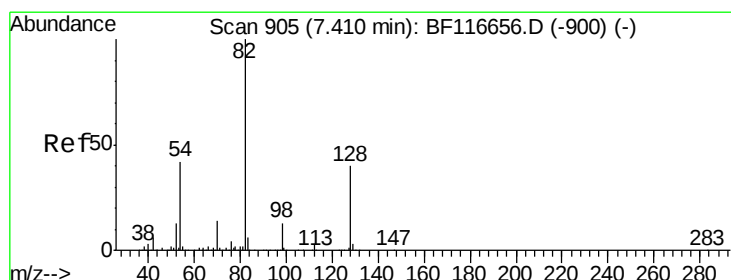
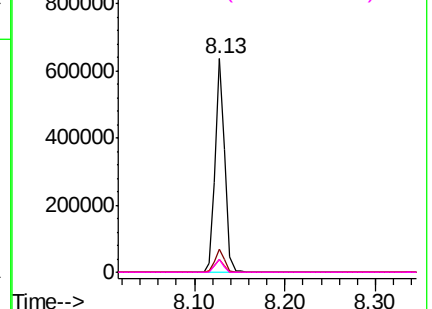


Abundance Ion 136.00 (135.70 to 136.70): E

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: 12.573 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

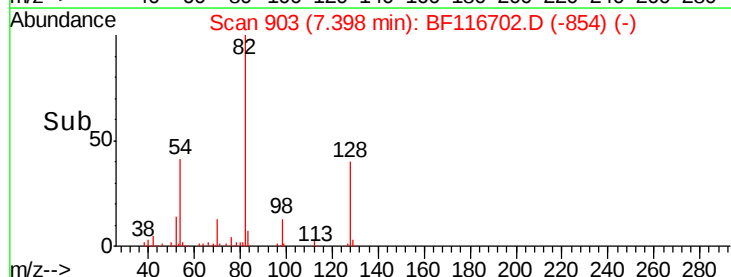
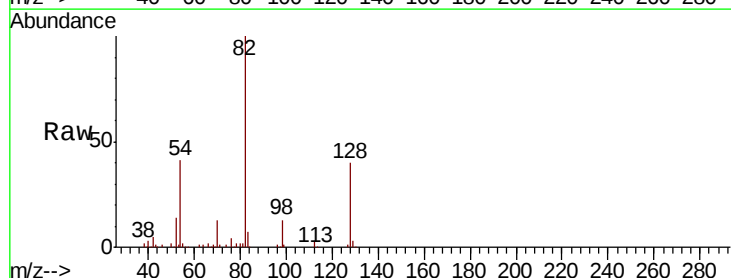
Tgt Ion: 82 Resp: 106527

Ion Ratio Lower Upper

82 100

128 40.2 32.8 49.2

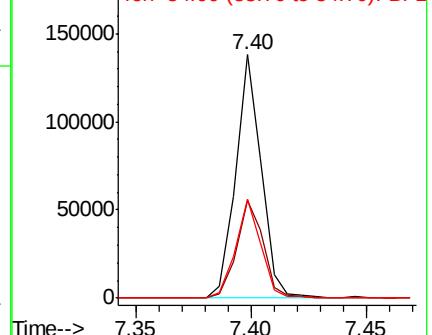
54 40.9 36.9 55.3

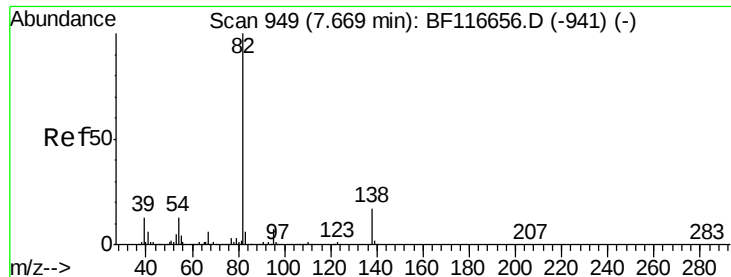


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 6.204 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.27 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

ClientSampleId :

OR-02-082919

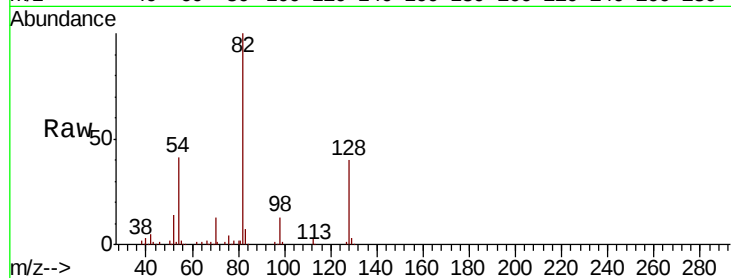
Tot Ion: 82 Resp: 106524

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

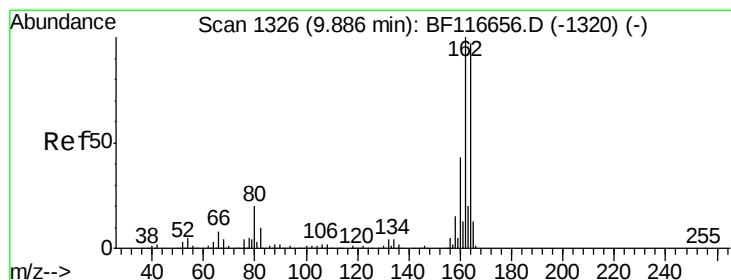
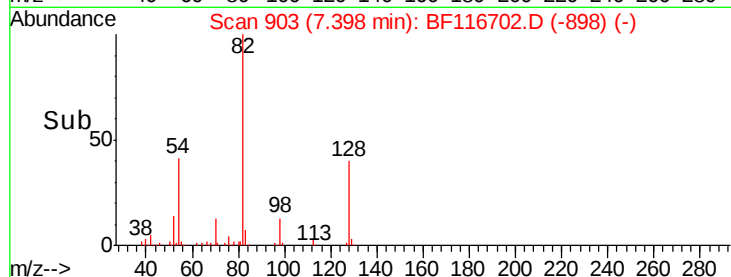
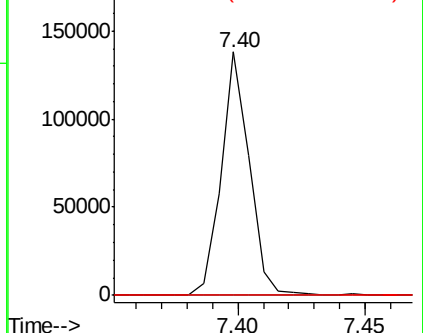
138 0.0 13.5 20.3#



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: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

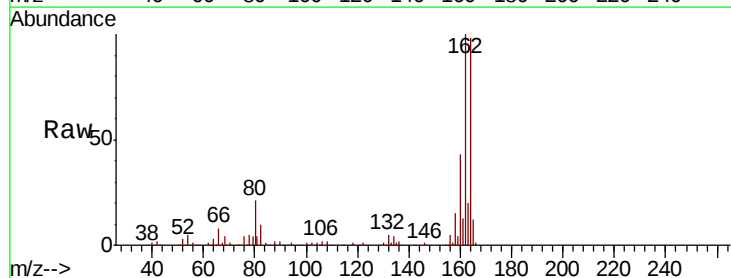
Tgt Ion: 164 Resp: 239405

Ion Ratio Lower Upper

164 100

162 102.4 81.4 122.0

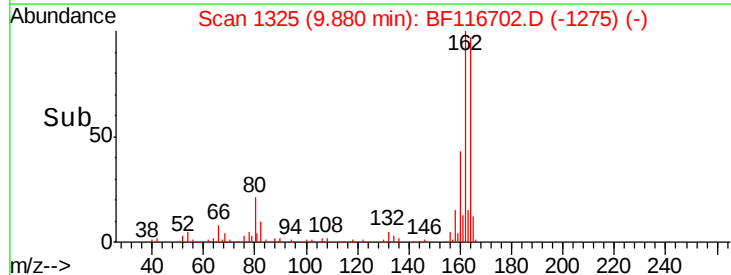
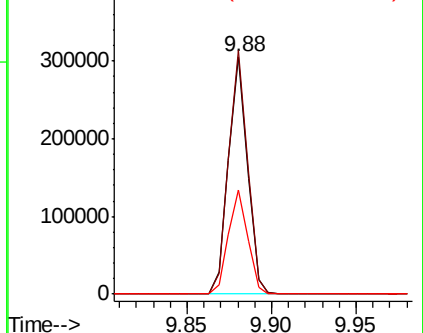
160 43.9 35.4 53.2

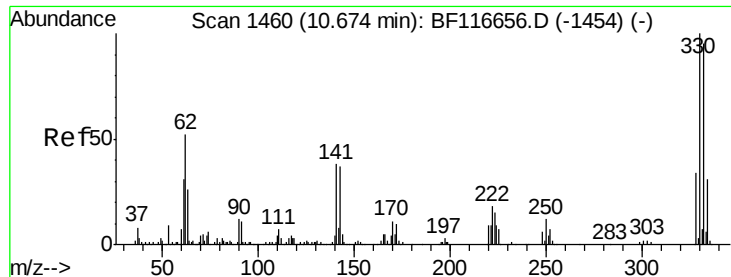


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

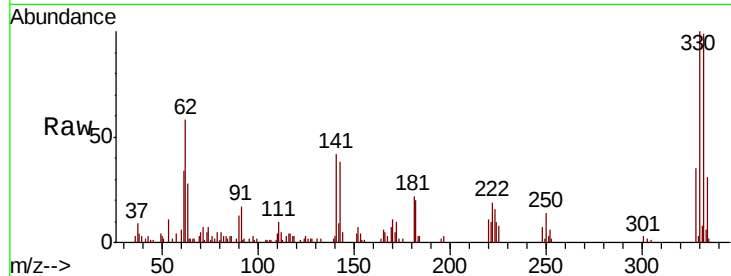




#42
 2,4,6-Tribromophenol
 Concen: 16.213 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.6	76.9	115.3
141	48.7	31.4	47.2#

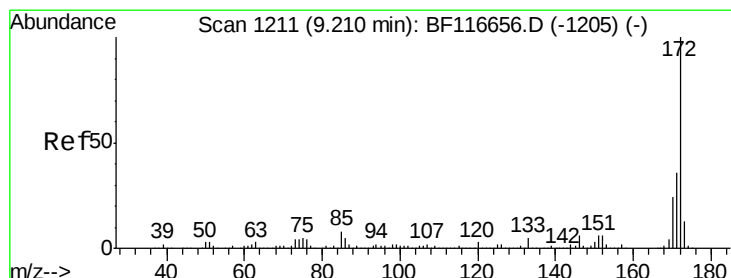
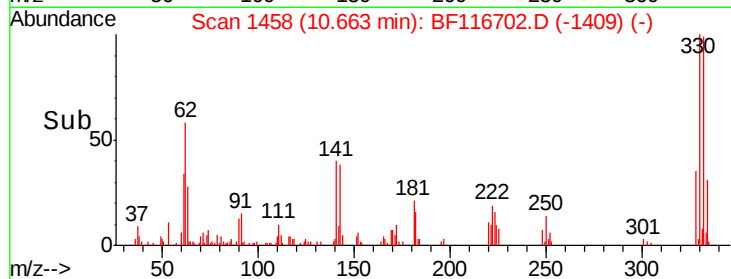
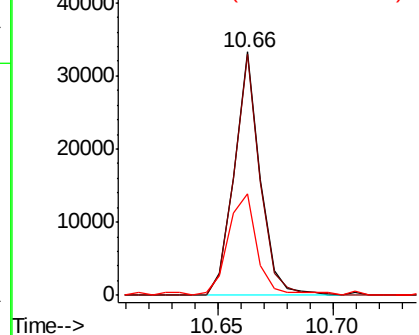


Abundance

Ion 329.80 (329.50 to 330.50): E

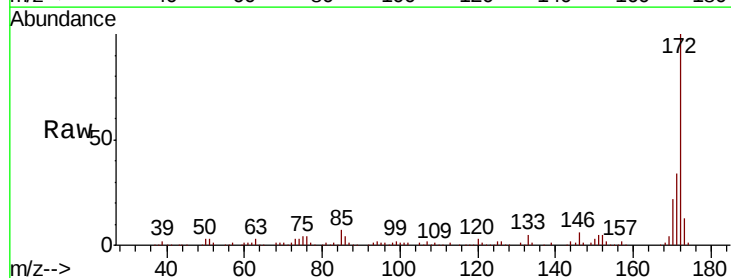
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 14.107 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	27.8	41.6
170	22.2	18.9	28.3

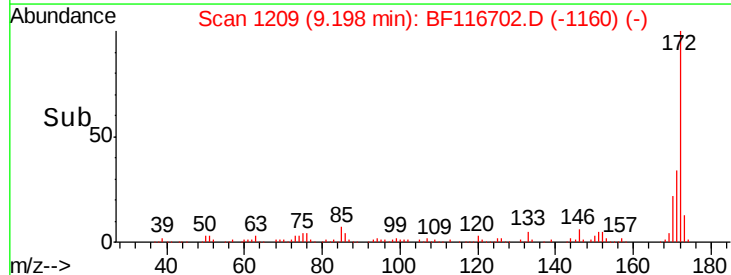
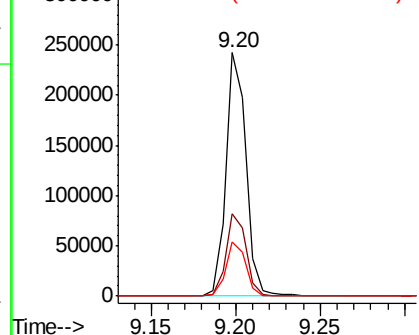


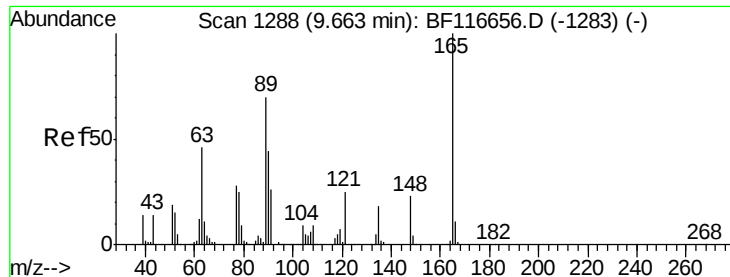
Abundance

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

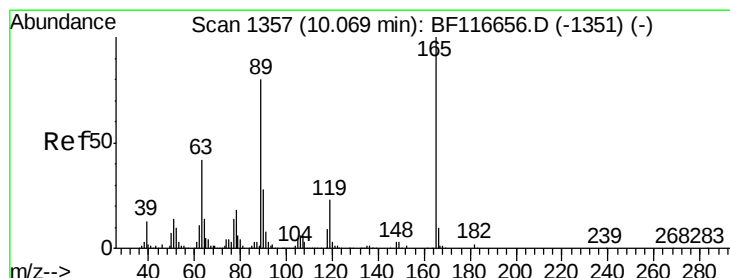
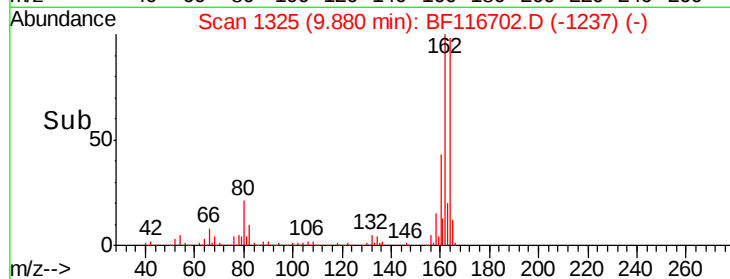
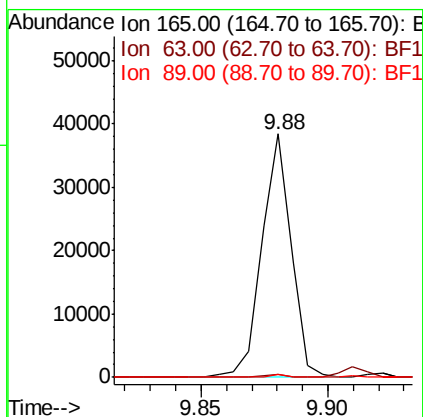
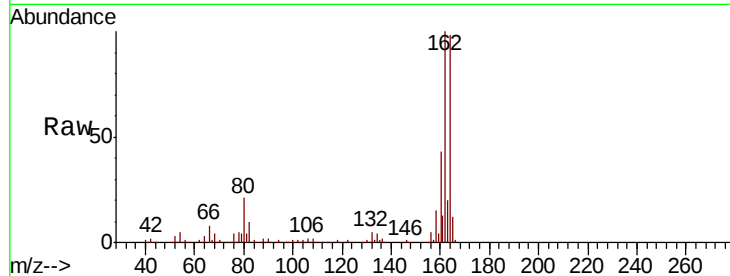




#51
 2,6-Dinitrotoluene
 Concen: 9.868 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. 0.22 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

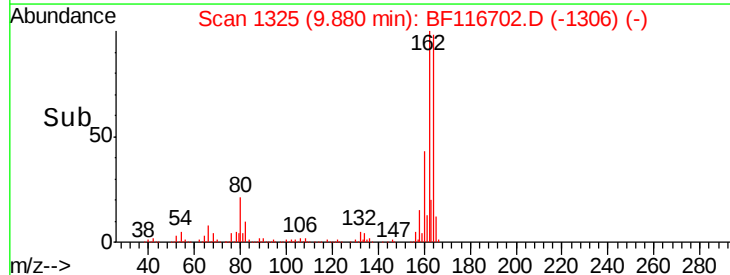
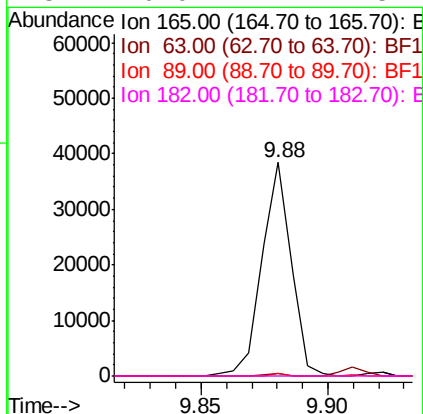
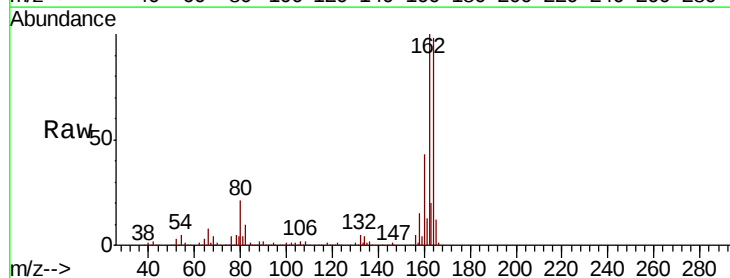
Instrument :
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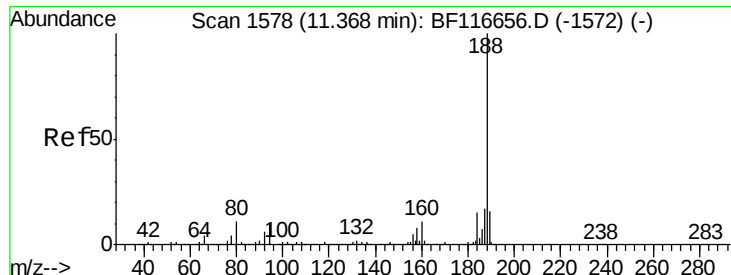
Tot Ion:165 Resp: 31118
 Ion Ratio Lower Upper
 165 100
 63 1.4 47.3 70.9#
 89 1.2 52.5 78.7#



#57
 2,4-Dinitrotoluene
 Concen: 8.070 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.19 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Tgt Ion:165 Resp: 31118
 Ion Ratio Lower Upper
 165 100
 63 1.4 36.4 54.6#
 89 1.2 62.6 94.0#
 182 0.0 2.1 3.1#

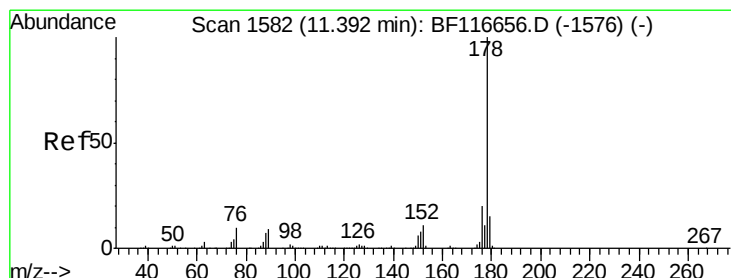
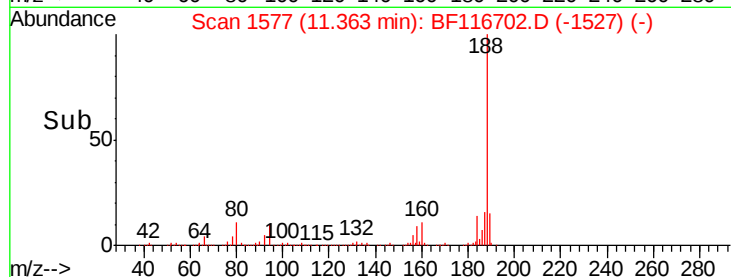
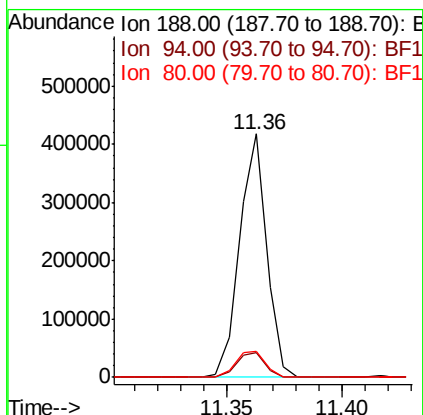
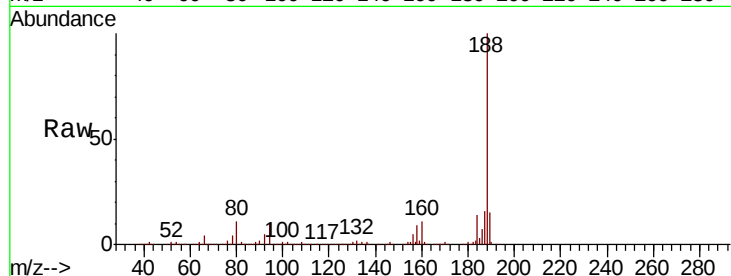




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

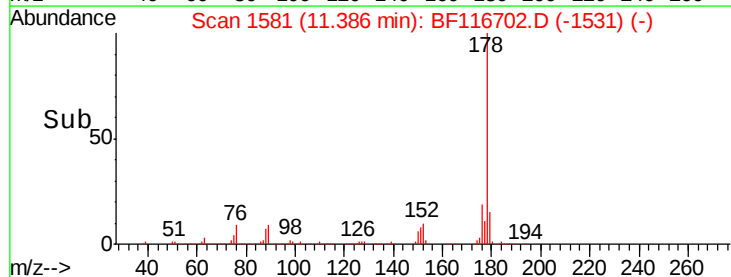
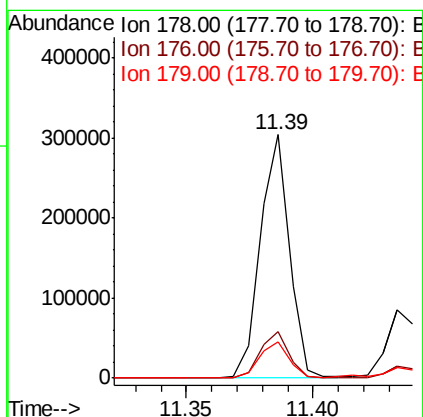
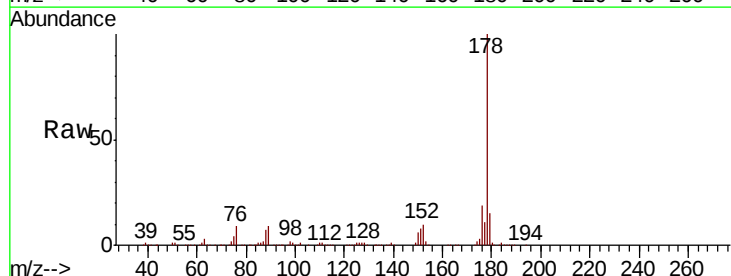
Instrument :
BNA_F
ClientSampleId :
OR-02-082919

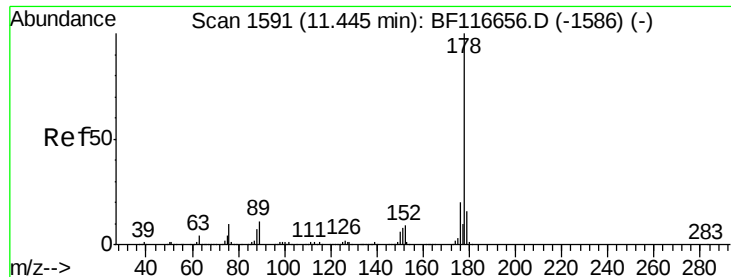
Tot Ion:188 Resp: 343059
Ion Ratio Lower Upper
188 100
94 9.9 7.3 10.9
80 10.8 8.4 12.6



#71
Phenanthrene
Concen: 12.794 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion:178 Resp: 244332
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 14.9 12.2 18.2





#72

Anthracene

Concen: 3.646 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

ClientSampleId :

OR-02-082919

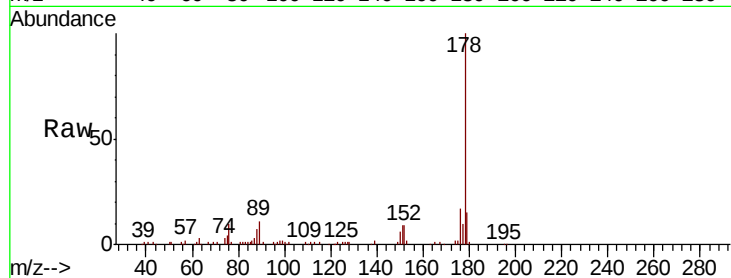
Tot Ion:178 Resp: 70095

Ion Ratio Lower Upper

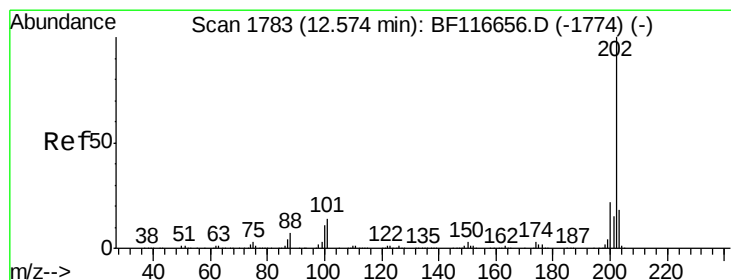
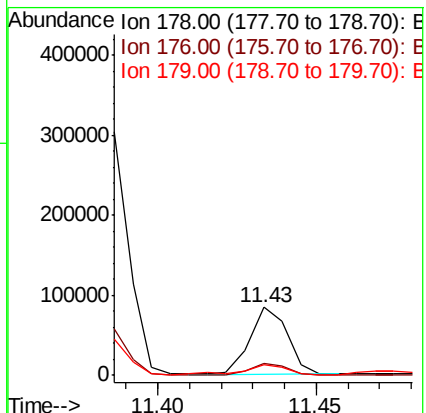
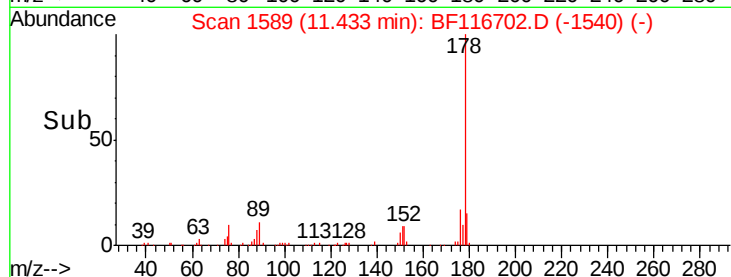
178 100

176 17.3 15.4 23.0

179 15.1 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: 18.834 ng

RT: 12.57 min Scan# 1782

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

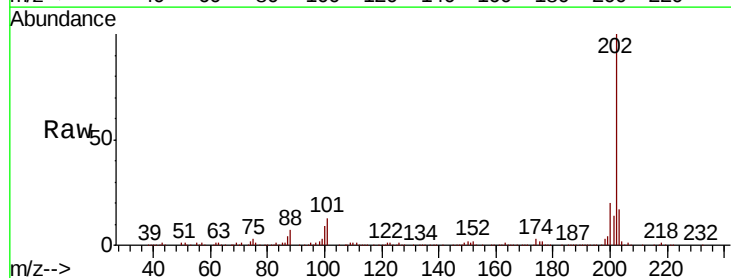
Tgt Ion:202 Resp: 353476

Ion Ratio Lower Upper

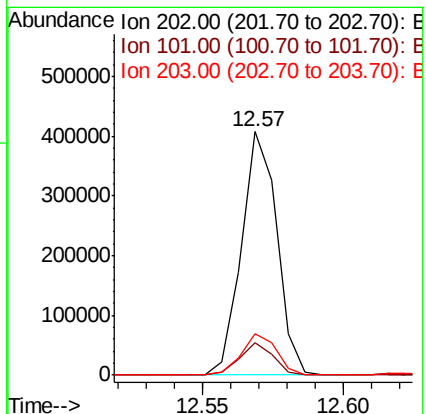
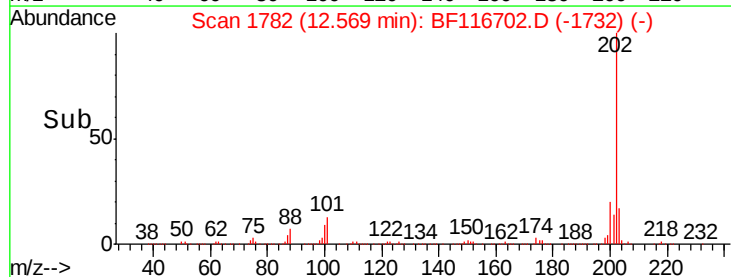
202 100

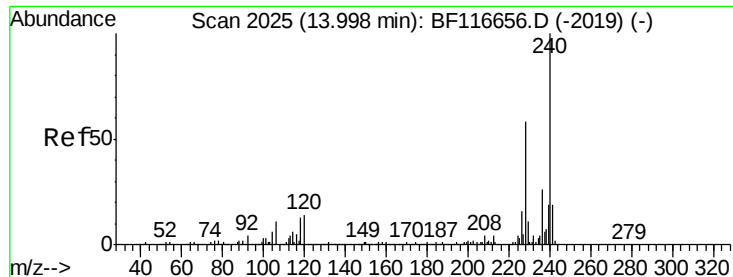
101 13.5 0.0 31.3

203 17.1 0.0 37.6



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

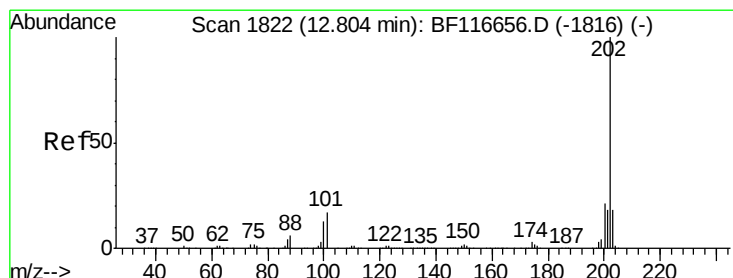
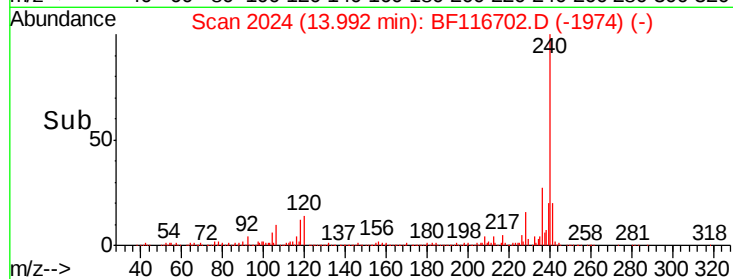
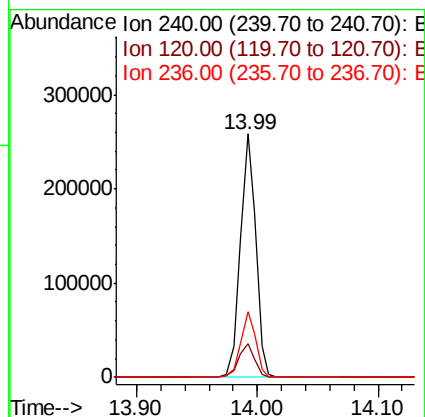
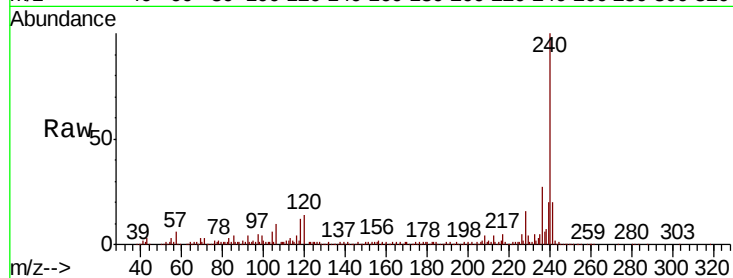




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

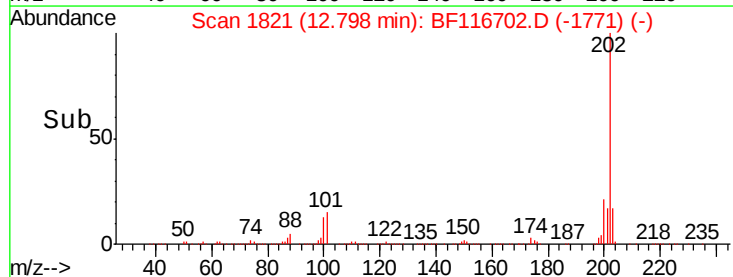
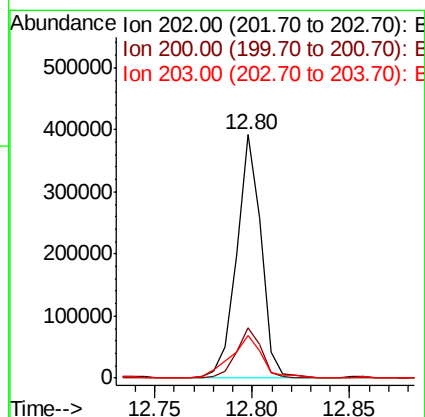
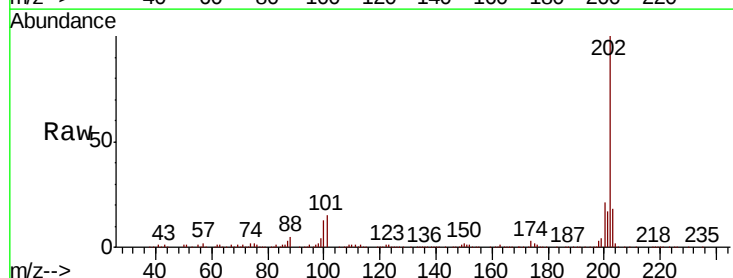
Instrument :
BNA_F
ClientSampleId :
OR-02-082919

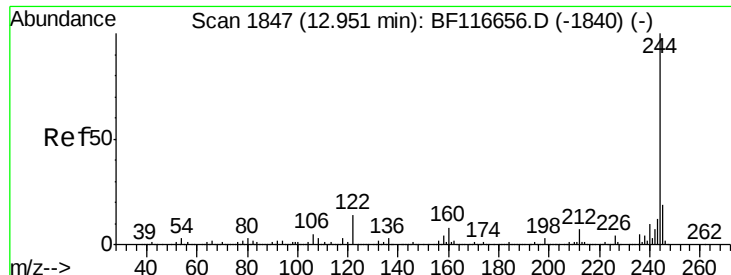
Tot Ion:240 Resp: 232533
Ion Ratio Lower Upper
240 100
120 13.8 9.1 13.7#
236 26.9 21.1 31.7



#78
Pyrene
Concen: 16.409 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion:202 Resp: 339179
Ion Ratio Lower Upper
202 100
200 20.9 16.5 24.7
203 17.8 13.7 20.5





#79

Terphenyl-d14

Concen: 11.488 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

ClientSampleId :

OR-02-082919

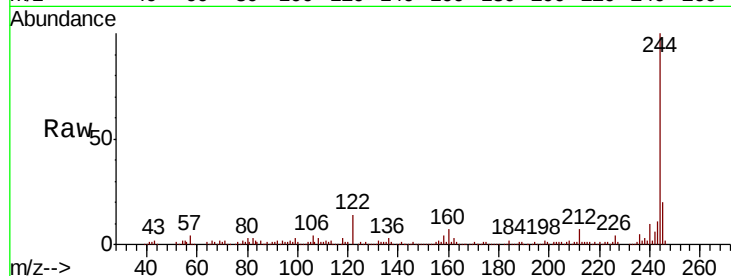
Tot Ion:244 Resp: 144402

Ion Ratio Lower Upper

244 100

212 6.9 6.1 9.1

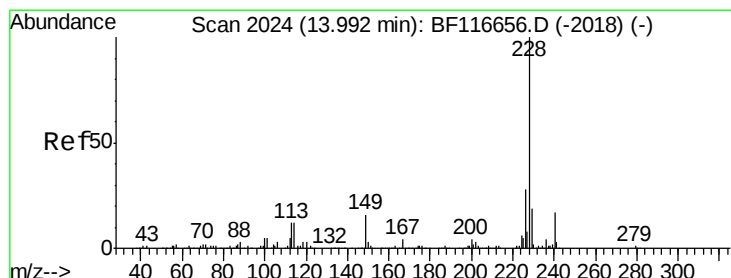
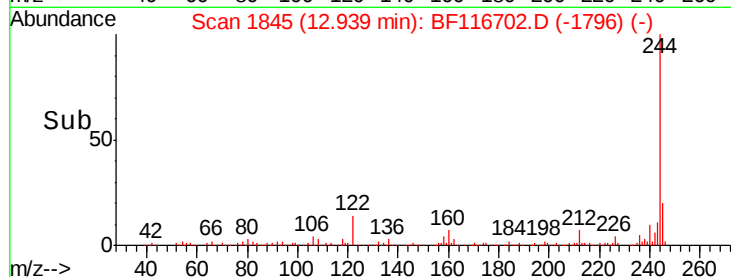
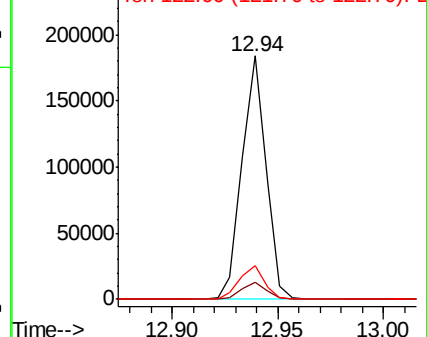
122 13.7 10.2 15.4



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: 11.257 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

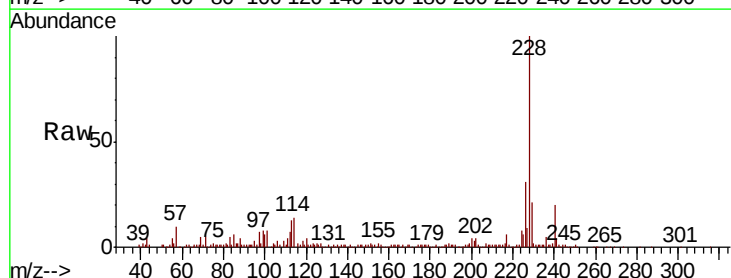
Tgt Ion:228 Resp: 165663

Ion Ratio Lower Upper

228 100

226 31.3 22.0 33.0

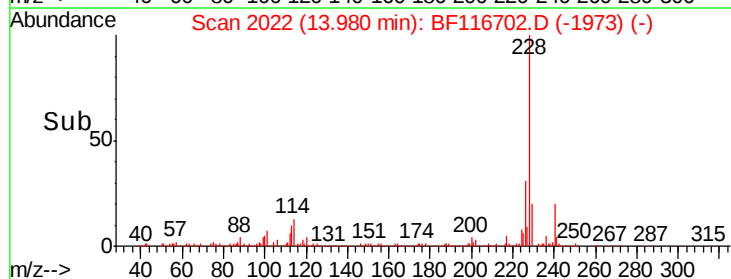
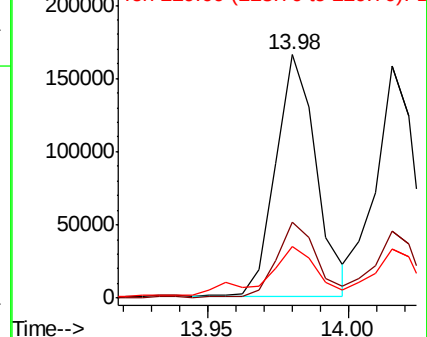
229 21.2 16.4 24.6

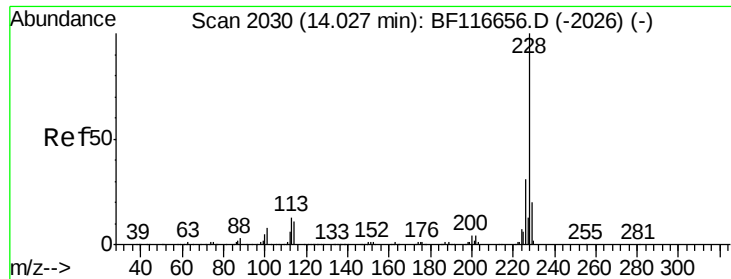


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

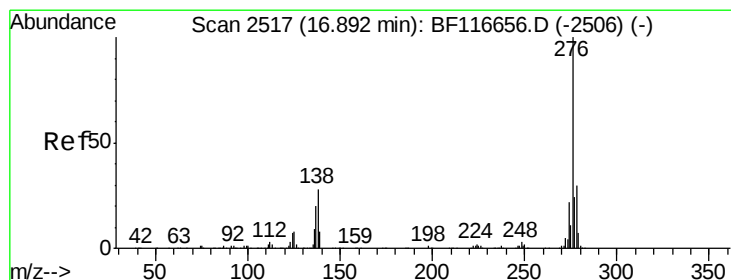
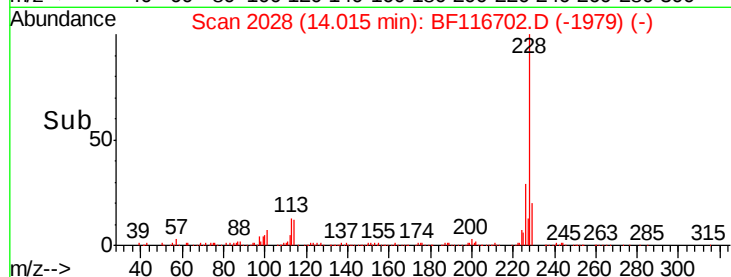
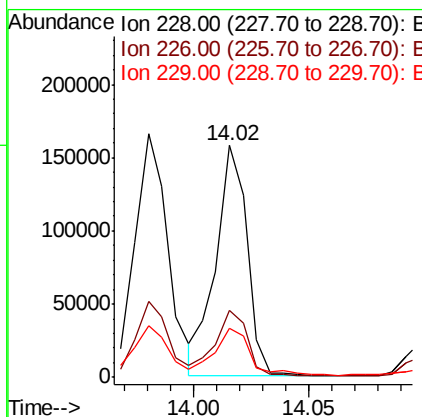
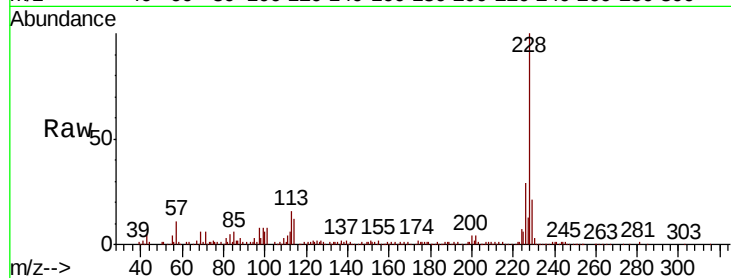




#83
Chrysene
Concen: 9.791 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

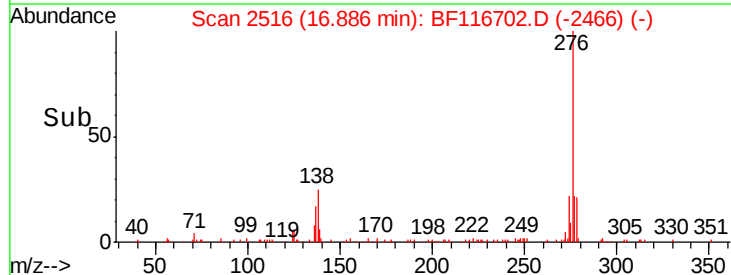
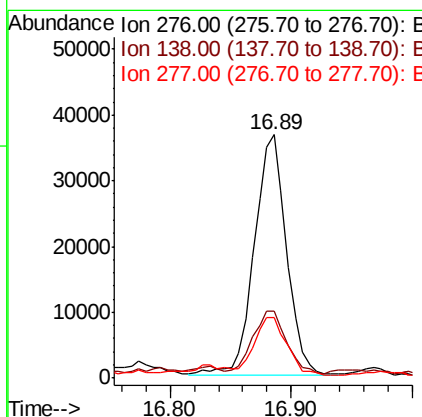
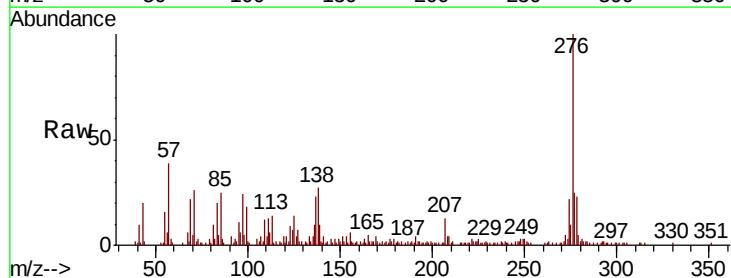
Instrument :
BNA_F
ClientSampleId :
OR-02-082919

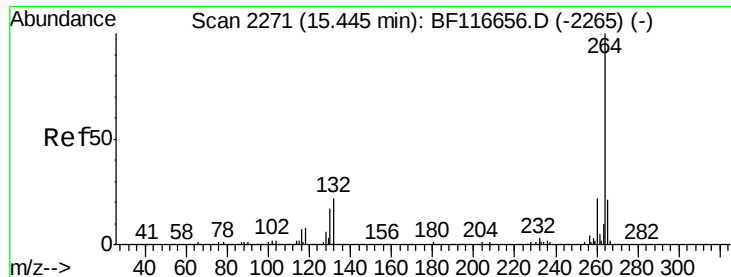
Tot Ion:228 Resp: 148445
Ion Ratio Lower Upper
228 100
226 29.1 24.0 36.0
229 21.3 15.4 23.0



#86
Indeno(1,2,3-cd)pyrene
Concen: 5.558 ng
RT: 16.89 min Scan# 2516
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion:276 Resp: 67691
Ion Ratio Lower Upper
276 100
138 26.9 19.4 29.2
277 24.1 20.5 30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.45 min Scan# 2272

Delta R.T. 0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

ClientSampleId :

OR-02-082919

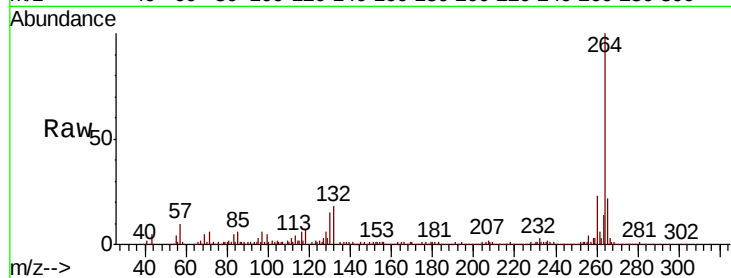
Tot Ion:264 Resp: 279718

Ion Ratio Lower Upper

264 100

260 23.3 18.3 27.5

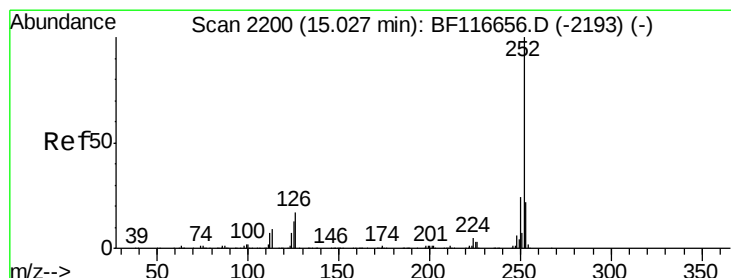
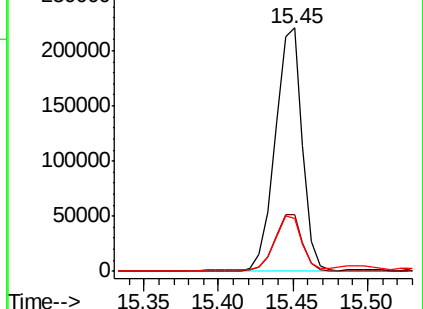
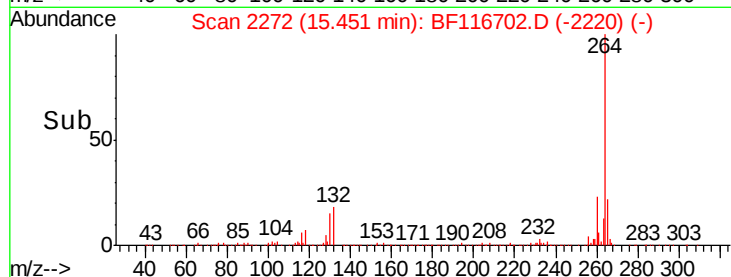
265 21.7 16.5 24.7



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: 14.706 ng

RT: 15.03 min Scan# 2200

Delta R.T. 0.00 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

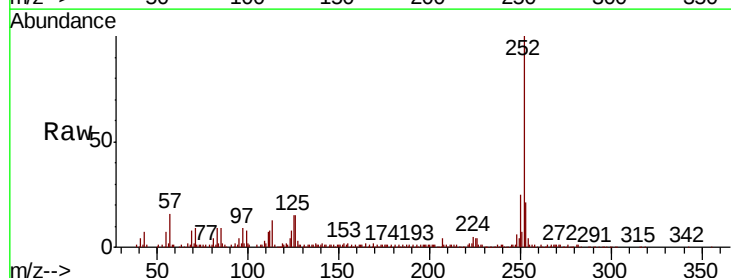
Tgt Ion:252 Resp: 248702

Ion Ratio Lower Upper

252 100

253 21.5 17.7 26.5

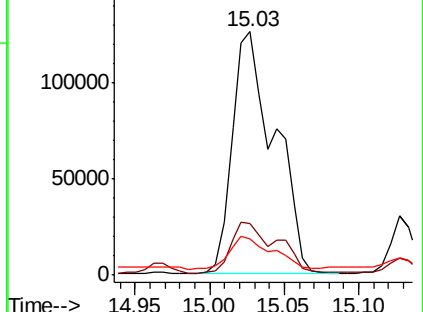
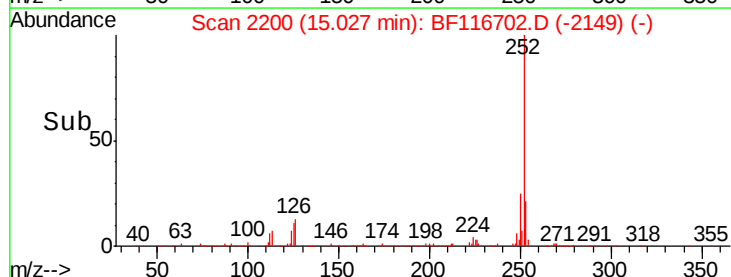
125 14.9 8.2 12.2#

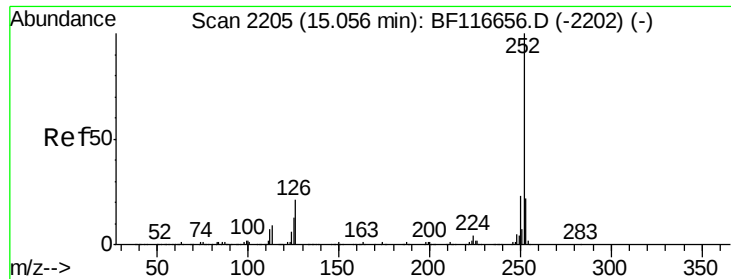


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

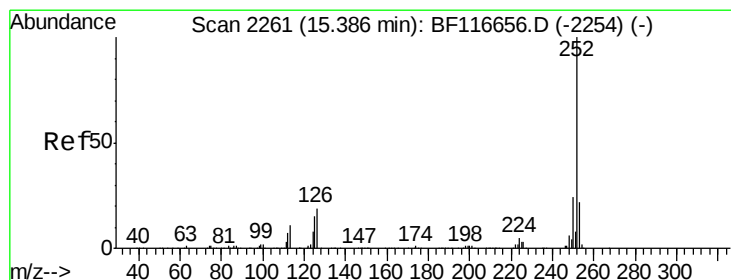
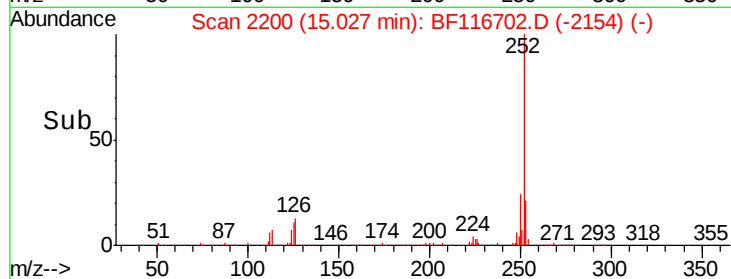
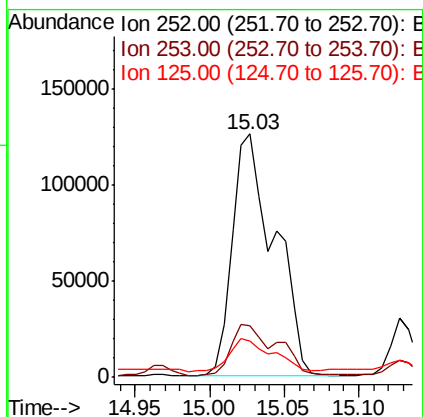
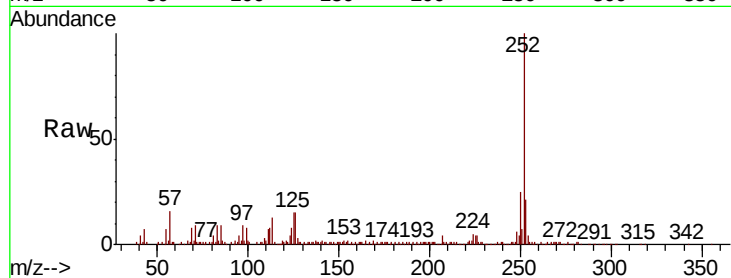




#89
Benzo(k)fluoranthene
Concen: 16.129 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.03 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

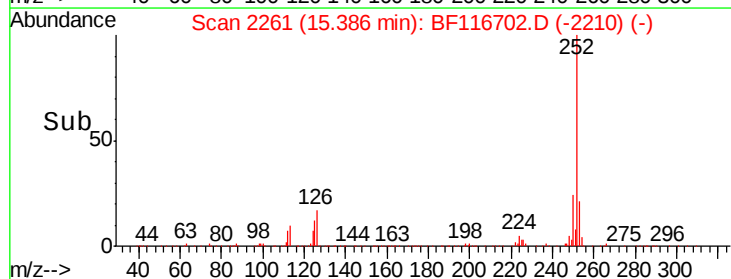
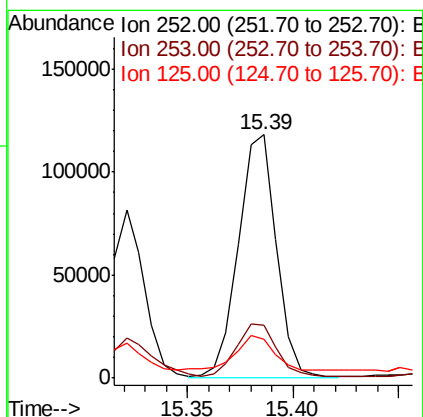
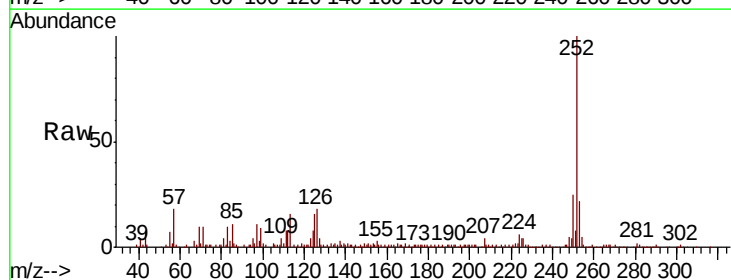
Instrument :
BNA_F
ClientSampleId :
OR-02-082919

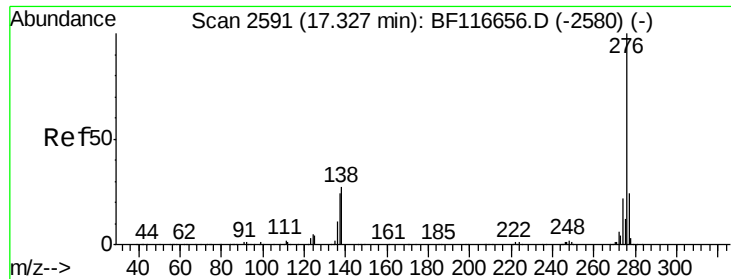
Tot Ion:252 Resp: 248702
Ion Ratio Lower Upper
252 100
253 21.5 17.7 26.5
125 14.9 8.6 13.0#



#90
Benzo(a)pyrene
Concen: 9.933 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.00 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion:252 Resp: 146140
Ion Ratio Lower Upper
252 100
253 21.9 18.1 27.1
125 15.9 9.8 14.8#

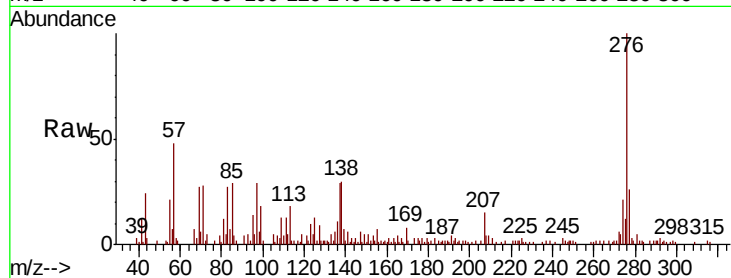




#92
 Benzo(a,h,i)perylene
 Concen: 4.527 ng
 RT: 17.32 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.5	27.7
138	29.8	16.2	24.2



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

