

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\
 Data File : BF116561.D
 Acq On : 26 Aug 2019 7:17
 Operator : HP/JU
 Sample : K4509-06
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 26 08:43:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	138021	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	507570	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	227787	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	313001	20.00	ng	0.00
76) Chrysene-d12	14.03	240	211098	20.00	ng	0.00
87) Perylene-d12	15.50	264	185447	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.51	112	715913	75.79	ng	0.01
7) Phenol-d6	6.51	99	939661	81.13	ng	0.00
23) Nitrobenzene-d5	7.44	82	553570	59.67	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	101693	51.99	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	1011947	71.54	ng	0.00
79) Terphenyl-d14	12.98	244	702049	62.12	ng	0.00

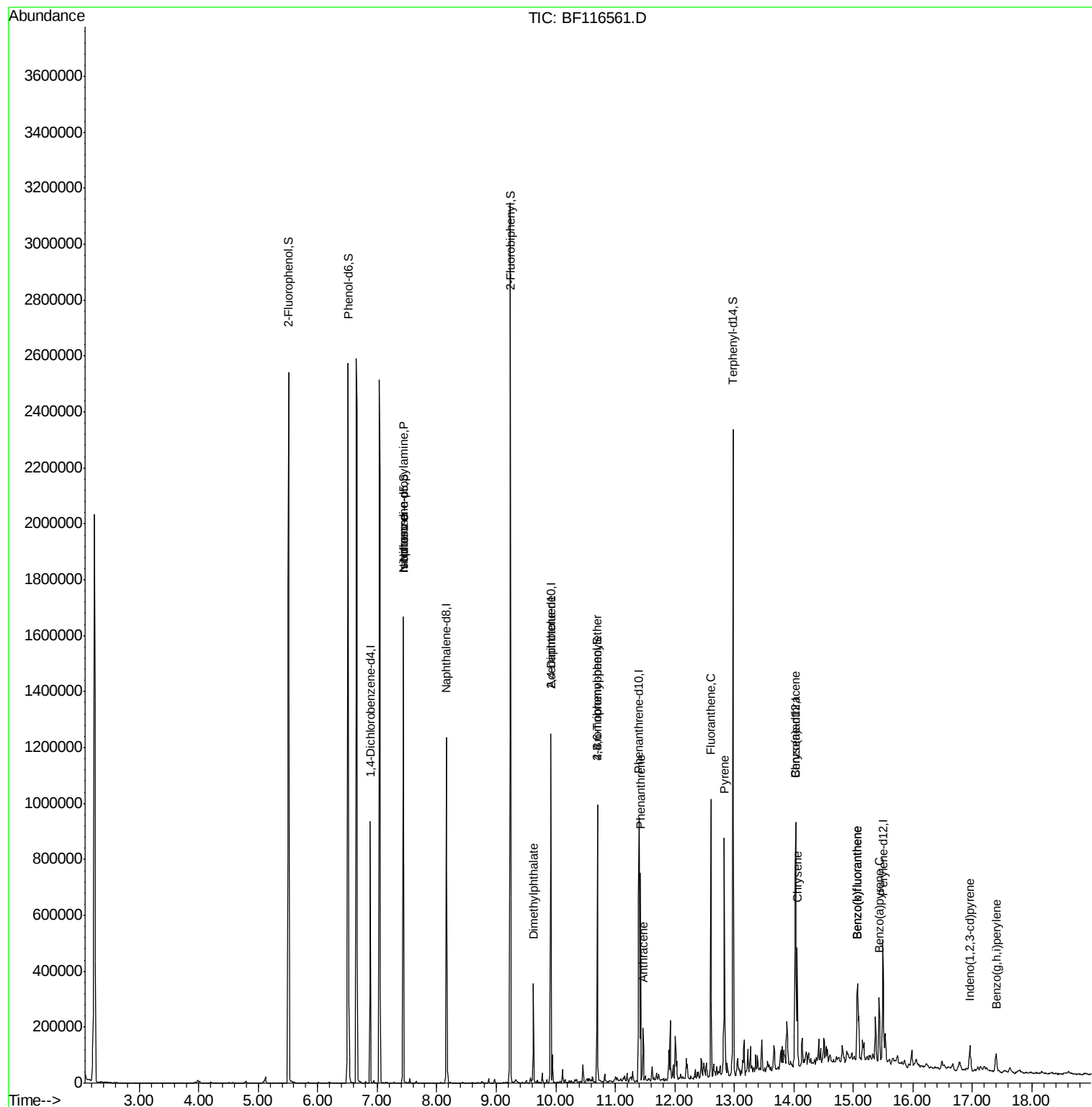
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	74106	9.377	ng	# 77
25) Isophorone	7.44	82	553560	30.278	ng	# 67
50) Dimethylphthalate	9.62	163	132622	8.345	ng	99
57) 2,4-Dinitrotoluene	9.92	165	28958	6.996	ng	# 21
67) 4-Bromophenyl-phenylether	10.70	248	6605	2.013	ng	# 1
71) Phenanthrene	11.42	178	246888	14.479	ng	99
72) Anthracene	11.47	178	61539	3.592	ng	98
75) Fluoranthene	12.61	202	384100	21.789	ng	99
78) Pyrene	12.83	202	351667	20.831	ng	99
81) Benzo(a)anthracene	14.02	228	161923	11.843	ng	98
83) Chrysene	14.06	228	152536	11.007	ng	97
86) Indeno(1,2,3-cd)pyrene	16.96	276	54904	4.625	ng	96
88) Benzo(b)fluoranthene	15.07	252	205038	17.898	ng	97
89) Benzo(k)fluoranthene	15.07	252	205038	19.756	ng	98
90) Benzo(a)pyrene	15.43	252	105641	10.434	ng	97
92) Benzo(g,h,i)perylene	17.40	276	52198	6.581	ng	95

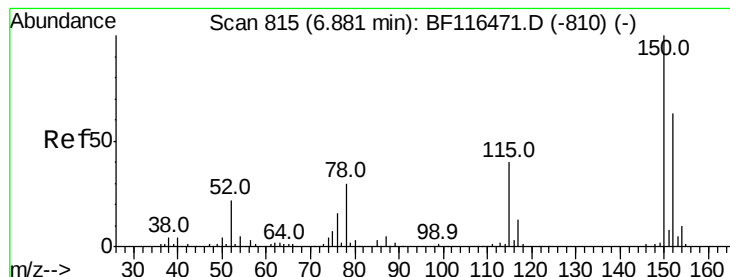
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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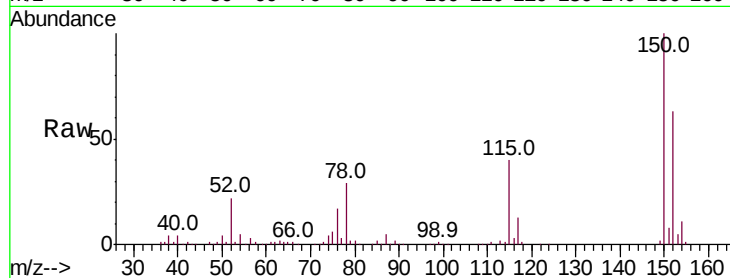


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.8	126.7	190.1
115	64.3	50.9	76.3

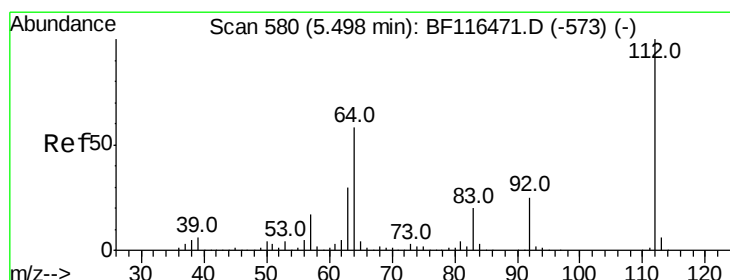
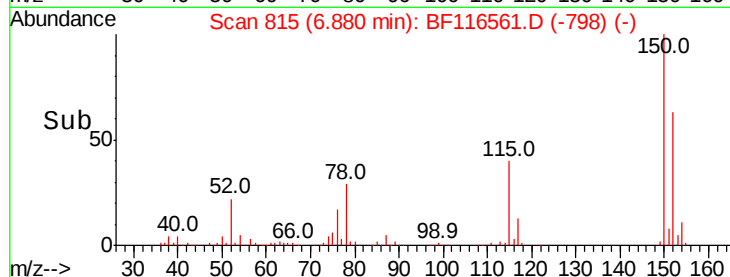
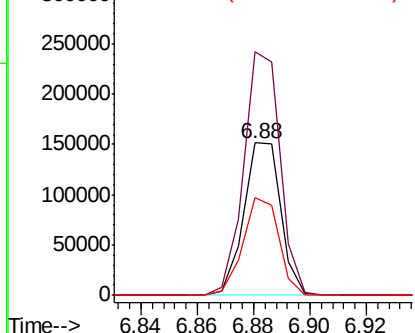


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

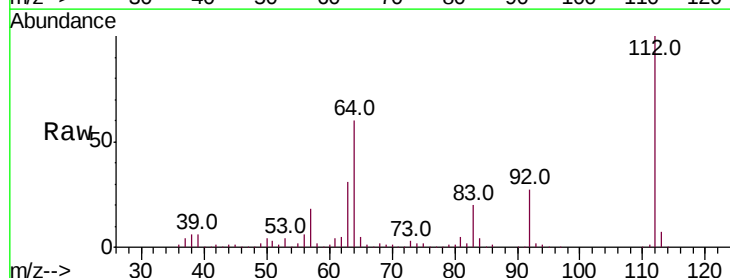
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 75.789 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.01 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.0	46.3	69.5
63	31.2	24.2	36.4

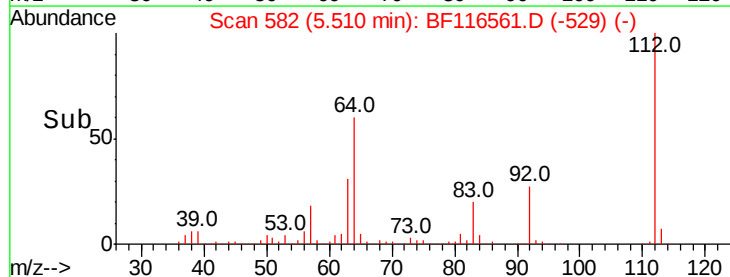
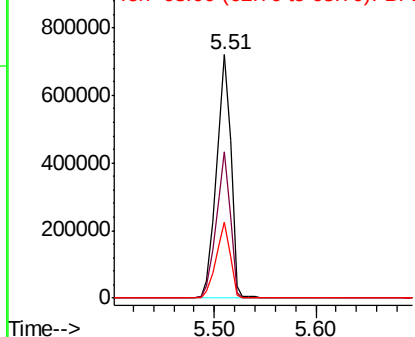


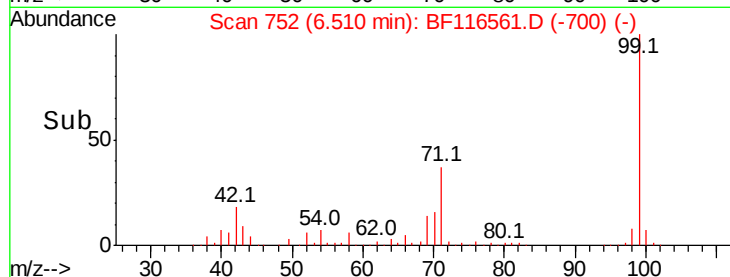
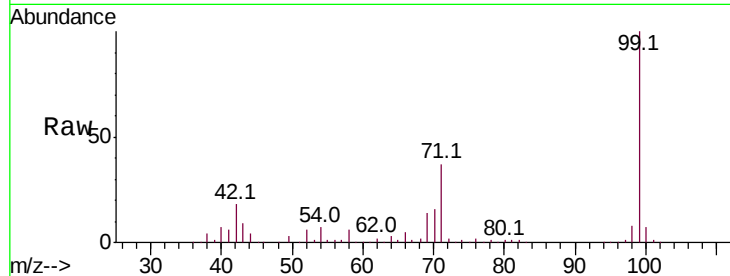
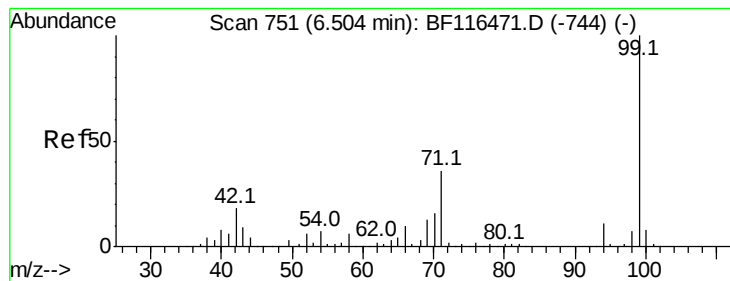
Abundance

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: 81.129 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Instrument :

BNA_F

ClientSampled :

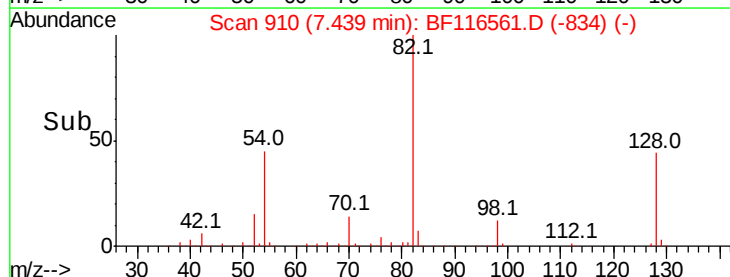
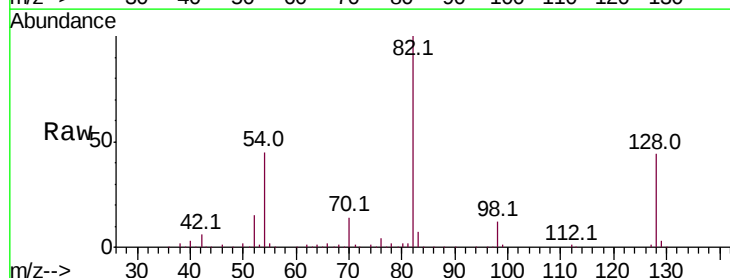
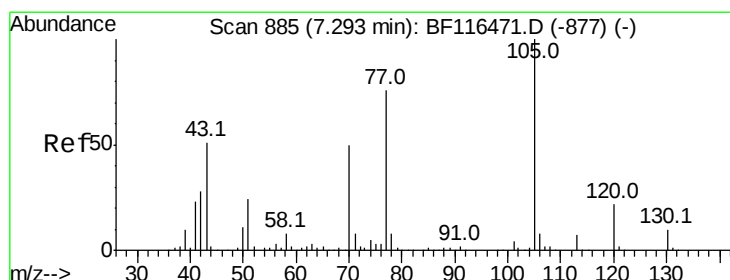
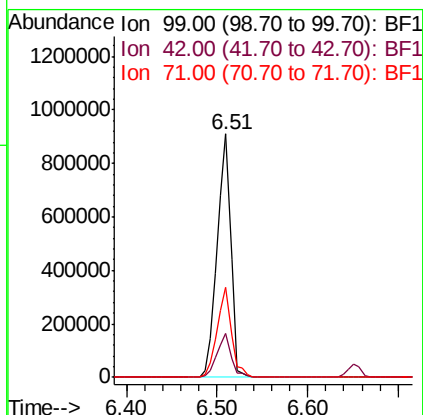
Tot Ion: 99 Resp: 939661

Ion Ratio Lower Upper

99 100

42 17.9 14.6 21.8

71 37.1 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 9.377 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Tgt Ion: 70 Resp: 74106

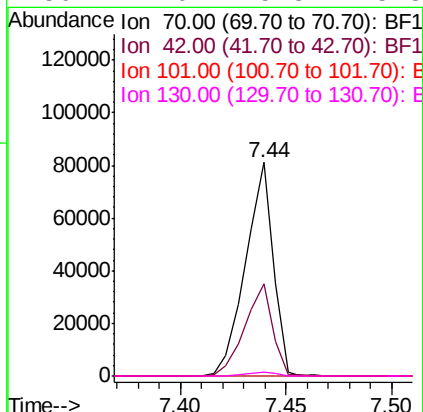
Ion Ratio Lower Upper

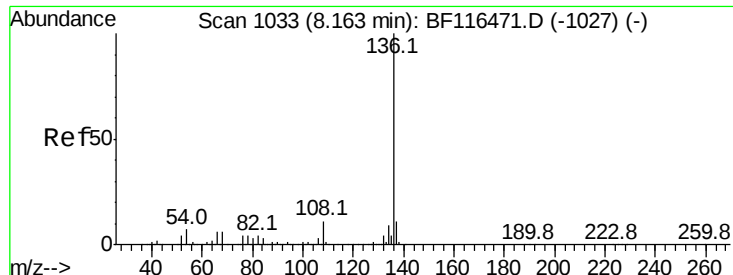
70 100

42 43.3 44.4 66.6#

101 0.0 7.1 10.7#

130 2.0 15.8 23.8#

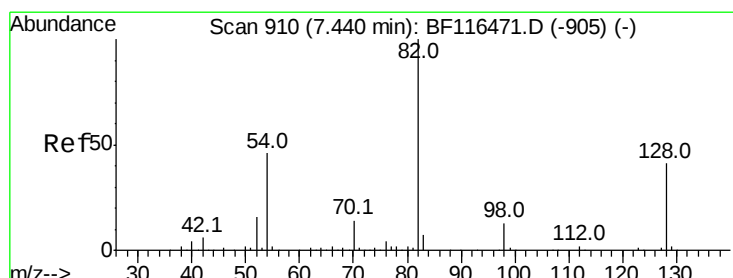
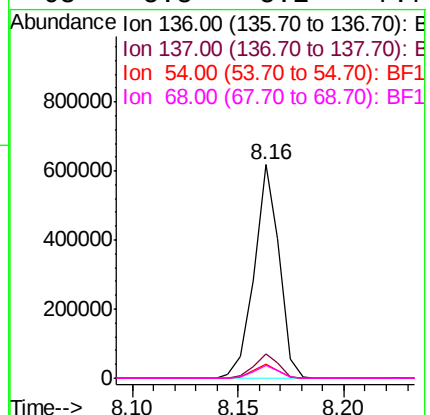
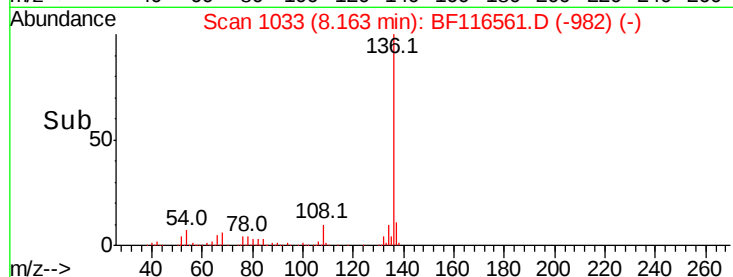
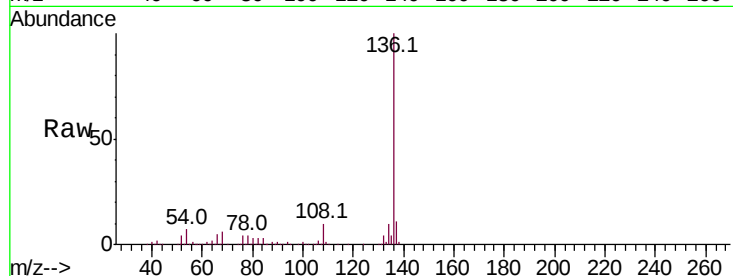




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

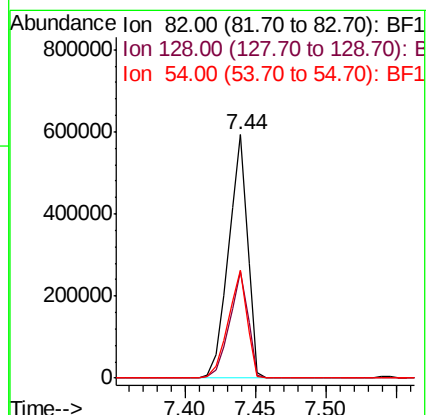
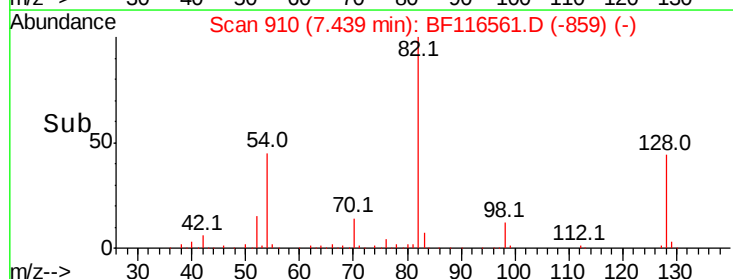
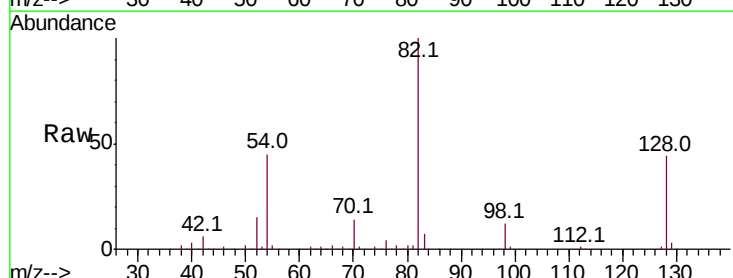
Instrument :
BNA_F
ClientSampleId :

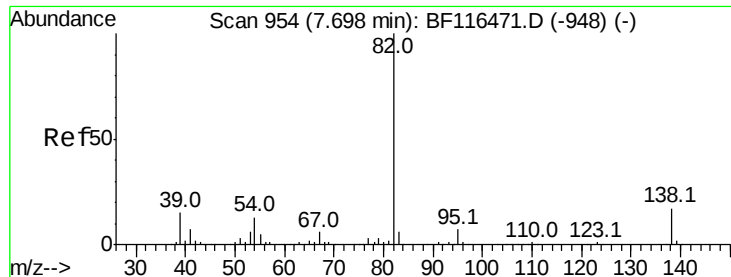
Tot Ion:136	Resp:	507570
Ion Ratio	Lower	Upper
136	100	
137	11.2	9.0 13.4
54	6.8	5.8 8.6
68	5.8	5.1 7.7



#23
Nitrobenzene-d5
Concen: 59.668 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.00 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Tgt Ion: 82	Resp:	553570
Ion Ratio	Lower	Upper
82	100	
128	44.0	32.2 48.4
54	44.5	36.5 54.7





#25

Isophorone

Concen: 30.278 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Instrument :

BNA_F

ClientSampleId :

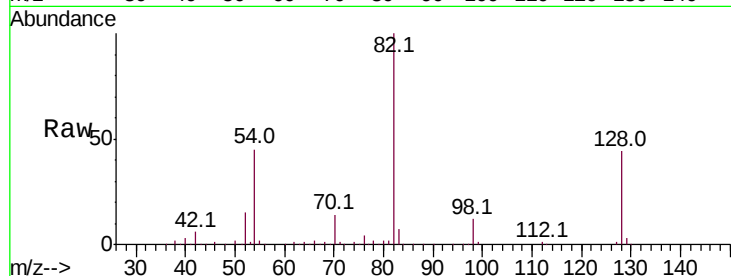
Tot Ion: 82 Resp: 553560

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

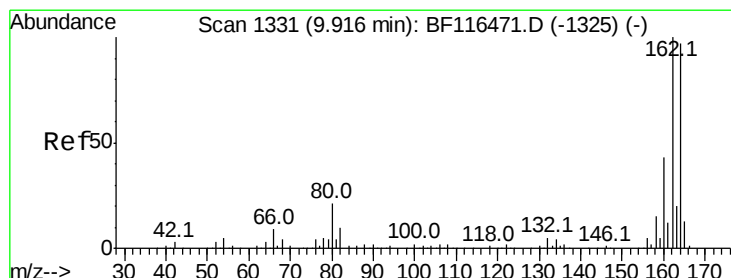
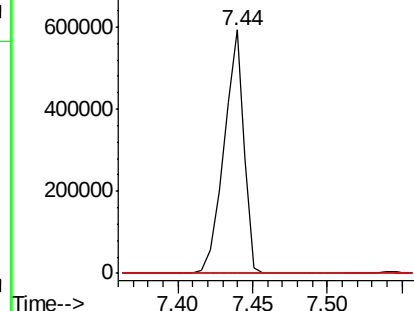
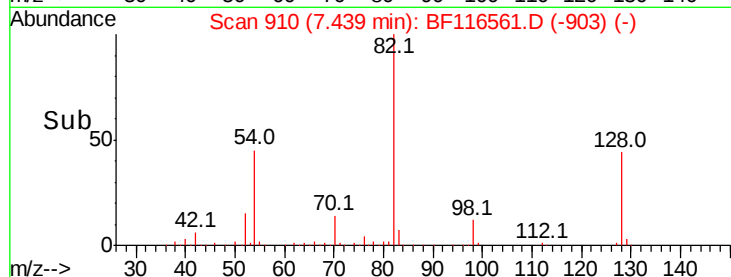
138 0.0 13.3 19.9#



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: 9.92 min Scan# 1331

Delta R.T. -0.00 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

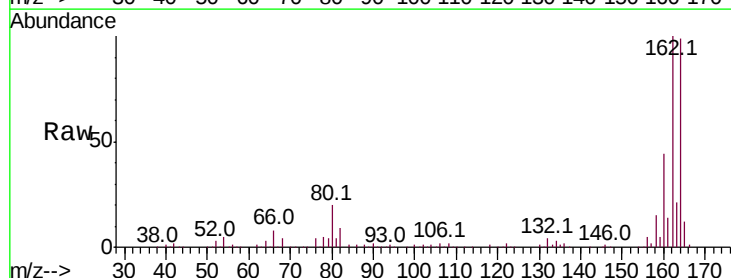
Tgt Ion: 164 Resp: 227787

Ion Ratio Lower Upper

164 100

162 101.2 82.6 123.8

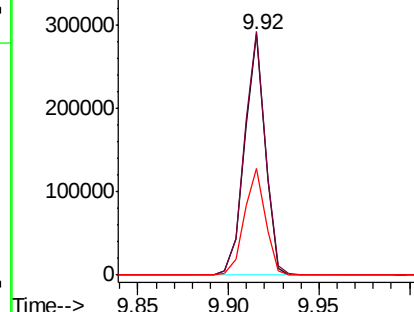
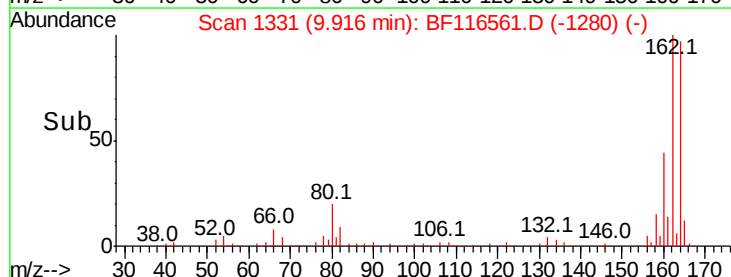
160 44.4 35.8 53.8

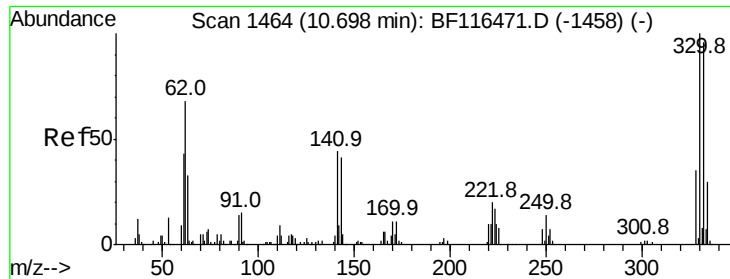


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

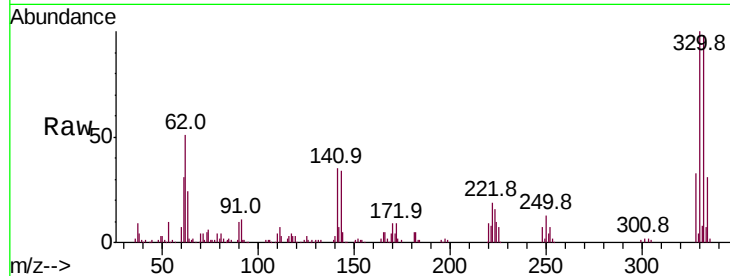




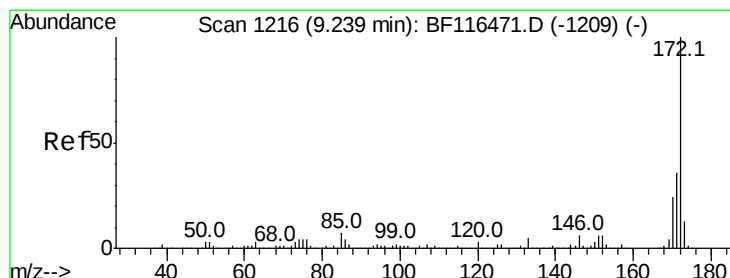
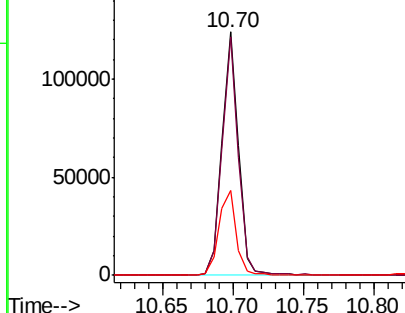
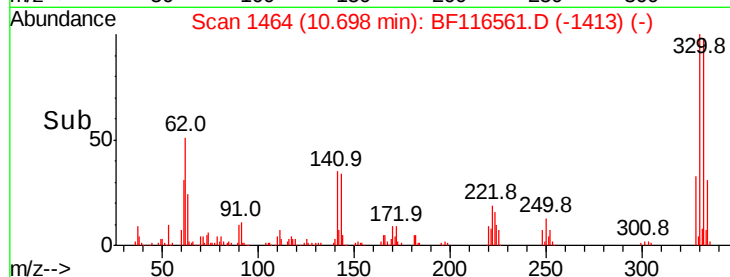
#42
 2,4,6-Tribromophenol
 Concen: 51.992 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.00 min
 Lab File: BF116561.D
 Acq: 26 Aug 2019 7:17

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.2	115.8
141	36.9	33.3	49.9

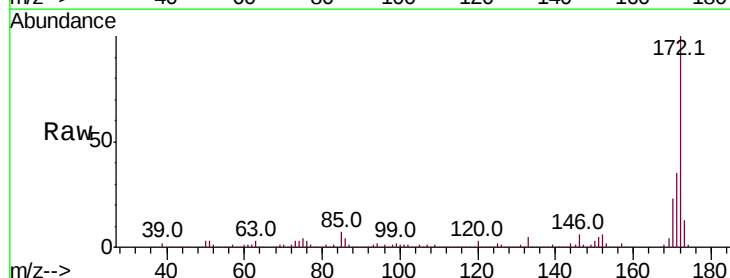


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

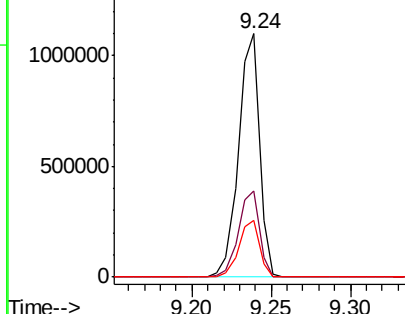
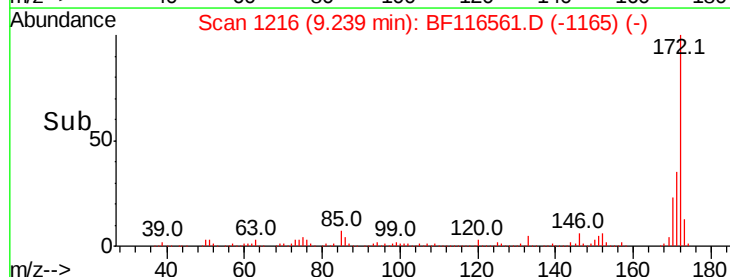


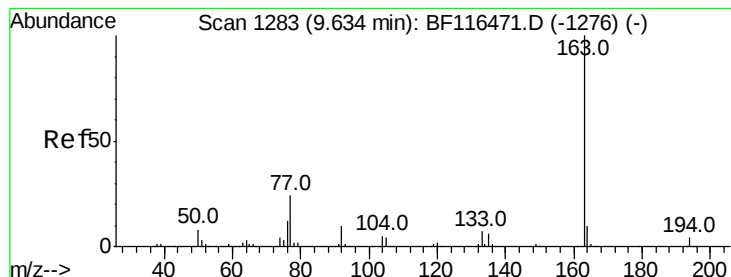
#45
 2-Fluorobiphenyl
 Concen: 71.543 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: BF116561.D
 Acq: 26 Aug 2019 7:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.9	43.3
170	23.3	19.4	29.0



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: 8.345 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Instrument :

BNA_F

ClientSampleId :

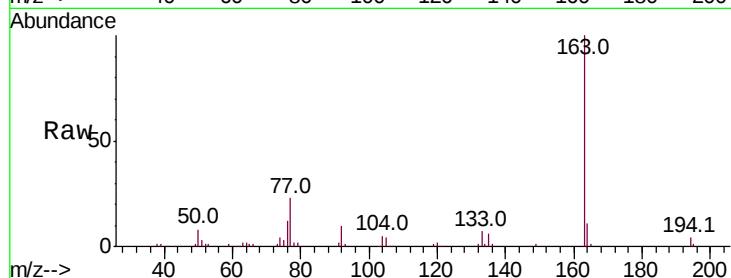
Tot Ion:163 Resp: 132622

Ion Ratio Lower Upper

163 100

194 3.7 2.9 4.3

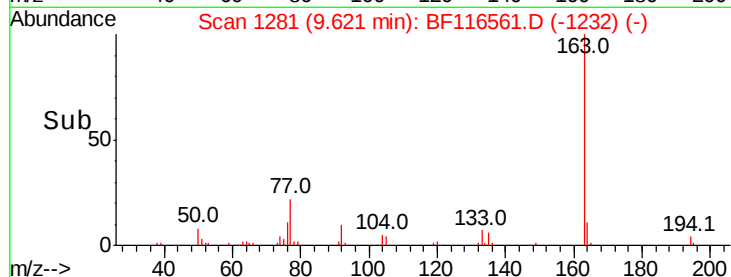
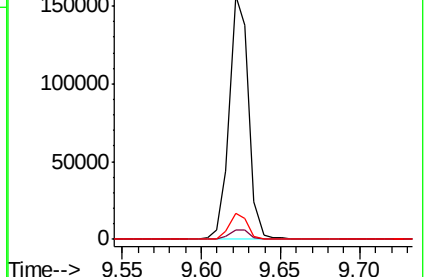
164 10.6 8.2 12.2



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



#57

2,4-Dinitrotoluene

Concen: 6.996 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.18 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Tgt Ion:165 Resp: 28958

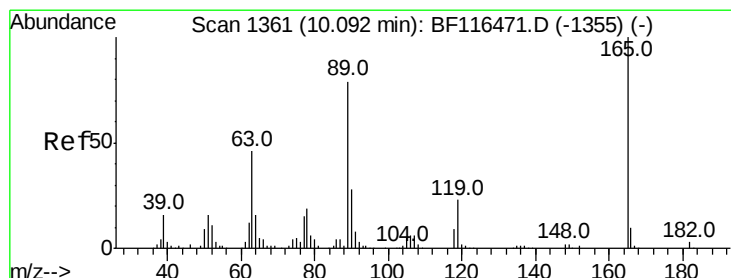
Ion Ratio Lower Upper

165 100

63 1.6 36.9 55.3#

89 1.6 63.4 95.0#

182 0.0 2.1 3.1#

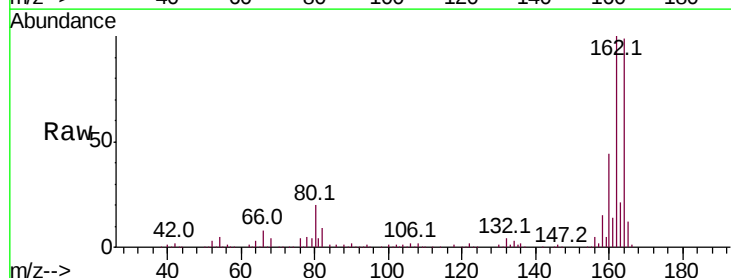
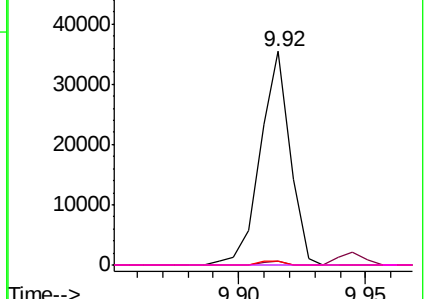


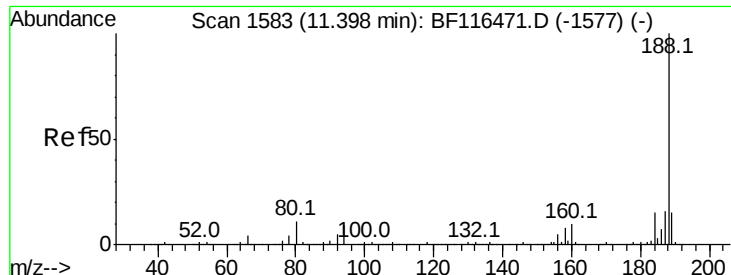
Abundance Ion 165.00 (164.70 to 165.70): E

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

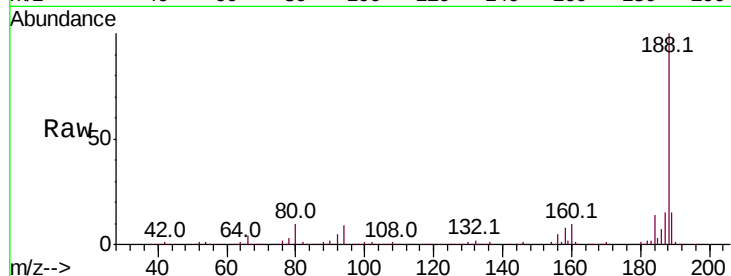




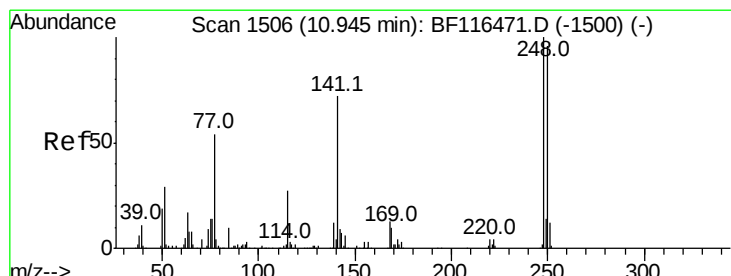
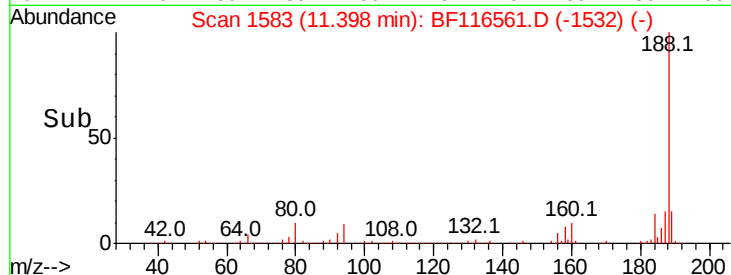
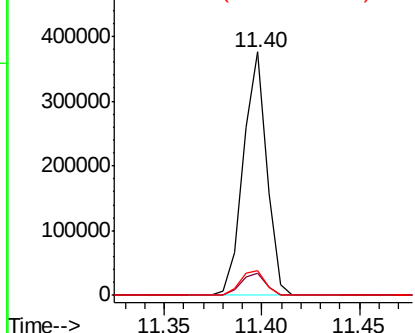
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BF116561.D
 Acq: 26 Aug 2019 7:17

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:188 Resp: 313001
 Ion Ratio Lower Upper
 188 100
 94 8.9 7.4 11.2
 80 10.3 8.6 12.8

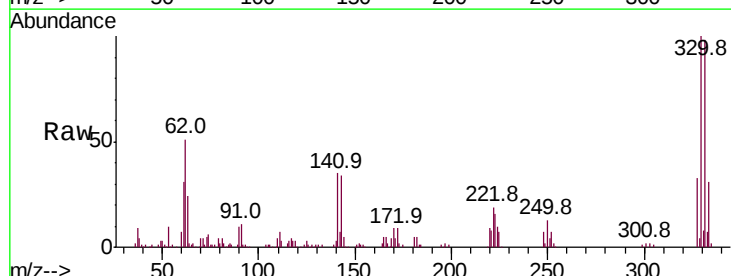


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

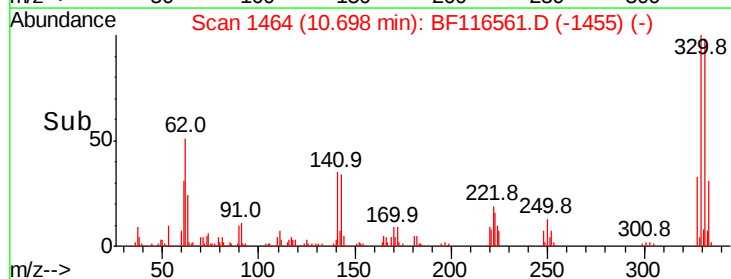
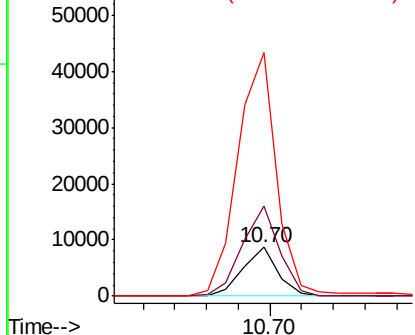


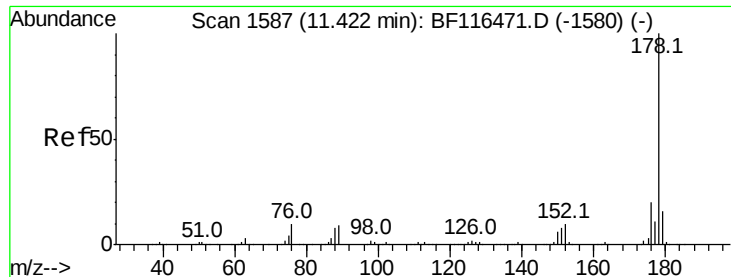
#67
 4-Bromophenyl-phenylether
 Concen: 2.013 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.25 min
 Lab File: BF116561.D
 Acq: 26 Aug 2019 7:17

Tgt Ion:248 Resp: 6605
 Ion Ratio Lower Upper
 248 100
 250 185.8 77.0 115.6#
 141 499.6 57.4 86.0#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

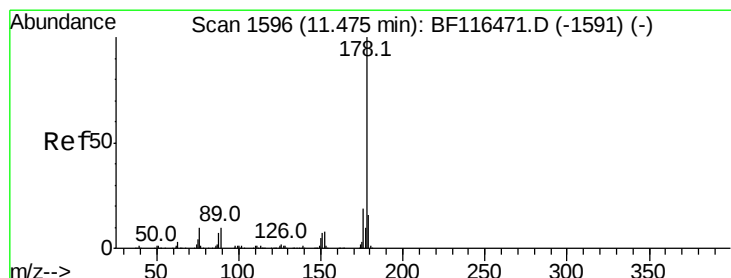
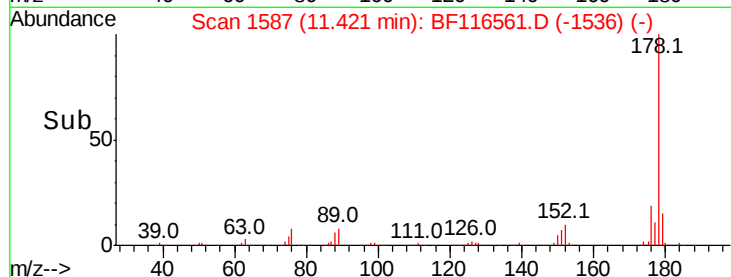
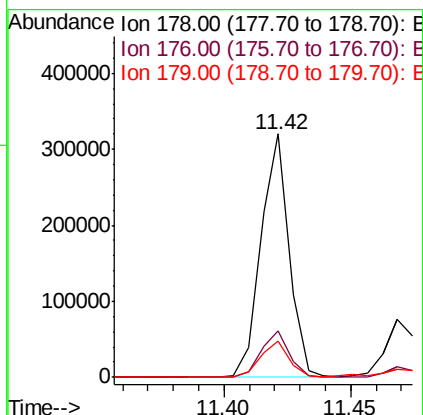
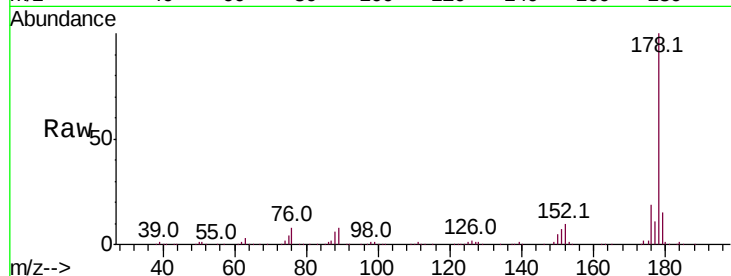




#71
Phenanthrene
Concen: 14.479 ng
RT: 11.42 min Scan# 1587
Delta R.T. -0.00 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

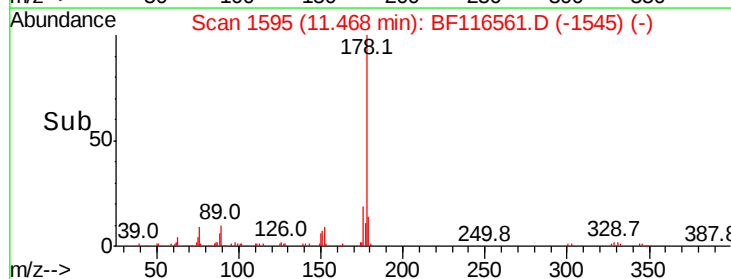
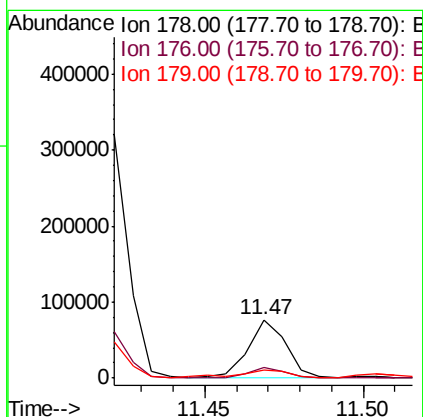
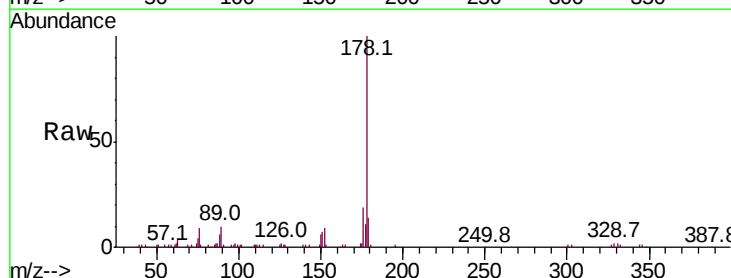
Instrument :
BNA_F
ClientSampleId :

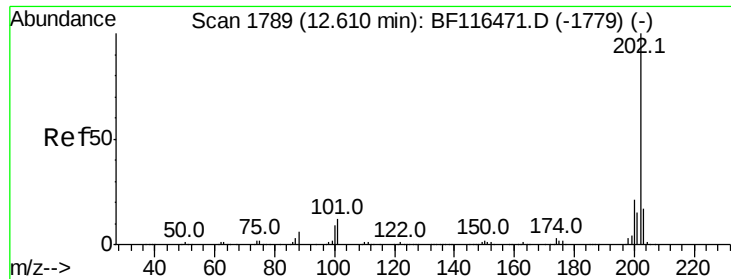
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.6
179	15.1	12.8	19.2



#72
Anthracene
Concen: 3.592 ng
RT: 11.47 min Scan# 1595
Delta R.T. -0.01 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.2	22.8
179	14.5	12.5	18.7





#75

Fluoranthene

Concen: 21.789 ng

RT: 12.61 min Scan# 1789

Delta R.T. -0.00 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Instrument :

BNA_F

ClientSampleId :

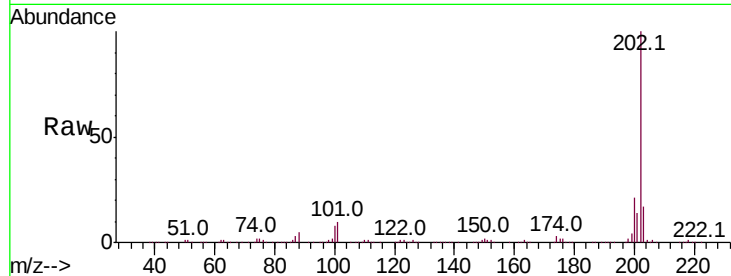
Tot Ion:202 Resp: 384100

Ion Ratio Lower Upper

202 100

101 10.5 0.0 31.5

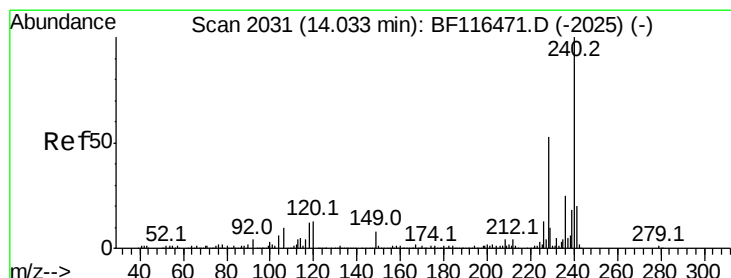
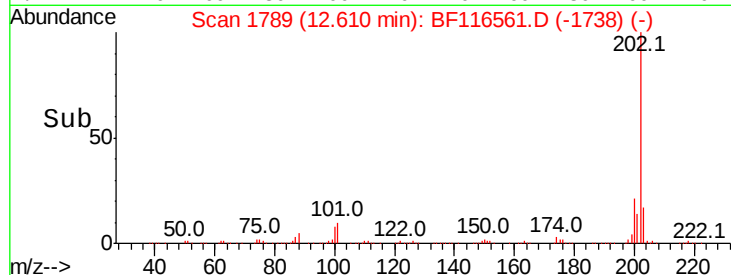
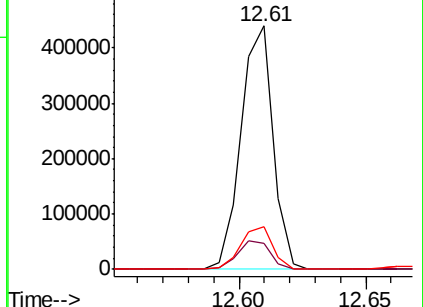
203 17.4 0.0 37.5



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: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

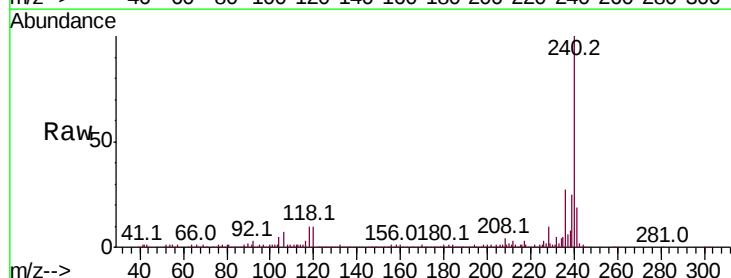
Tgt Ion:240 Resp: 211098

Ion Ratio Lower Upper

240 100

120 10.3 10.5 15.7#

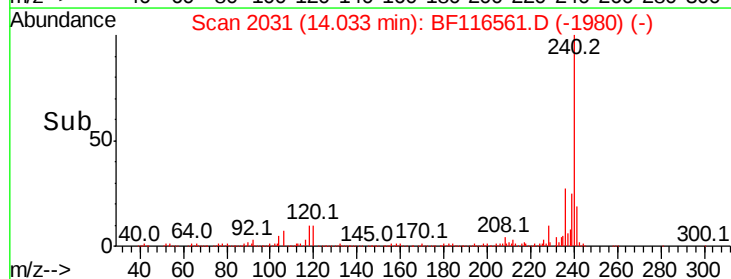
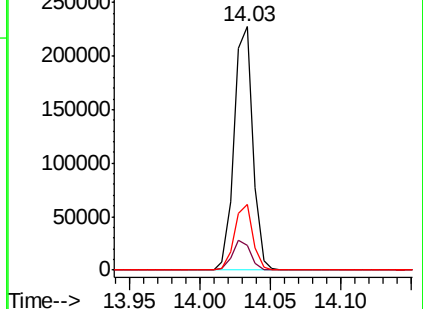
236 27.0 20.2 30.2

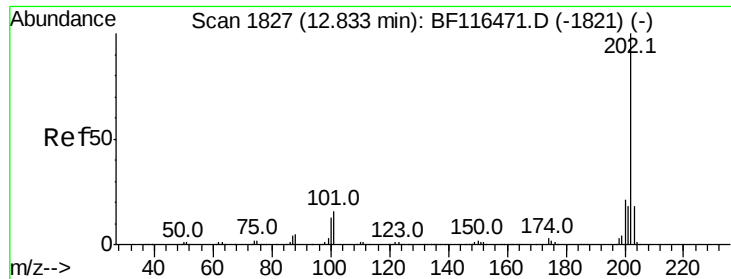


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

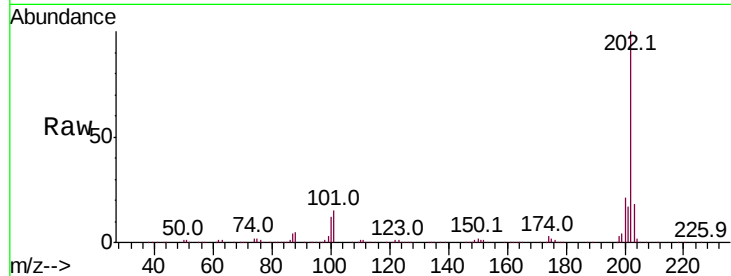




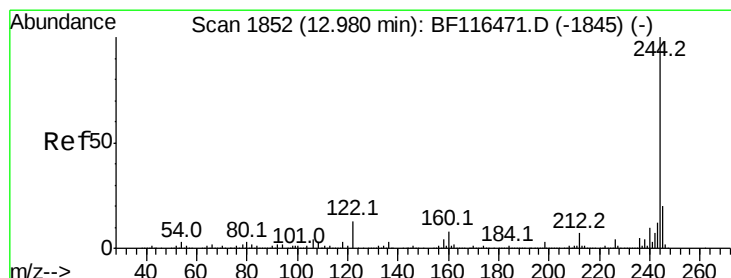
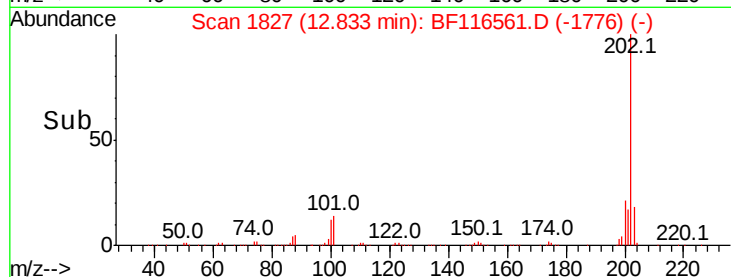
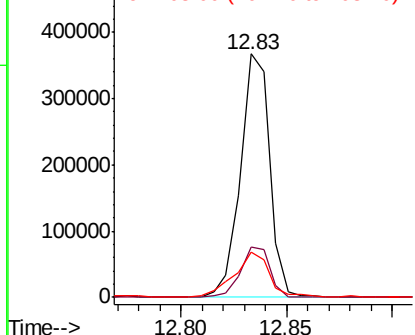
#78
Pvrene
Concen: 20.831 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.00 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	18.4	14.2	21.4

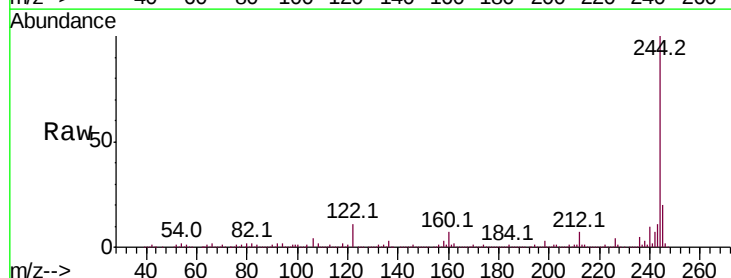


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

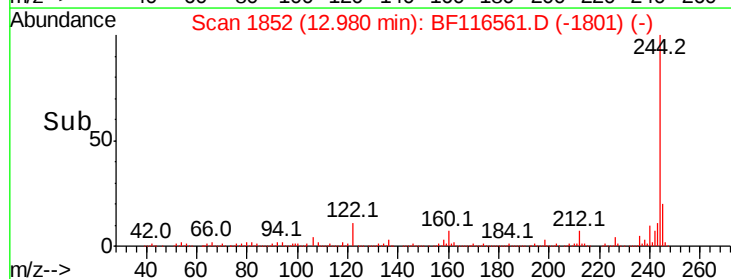
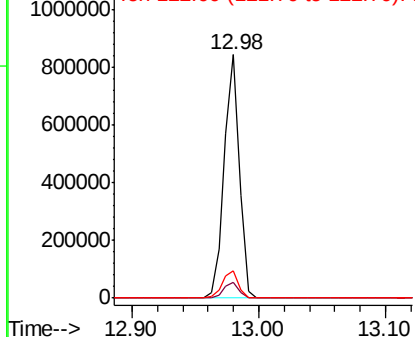


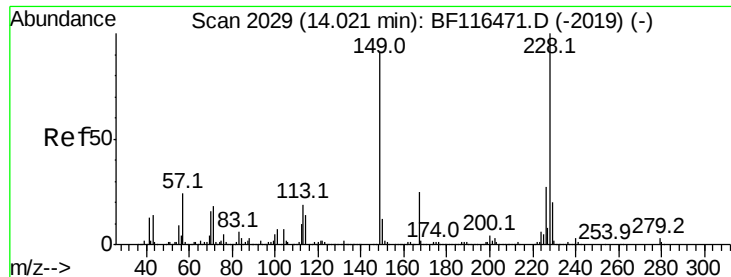
#79
Terphenyl-d14
Concen: 62.121 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.00 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	11.3	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: 11.843 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Instrument :

BNA_F

ClientSampleId :

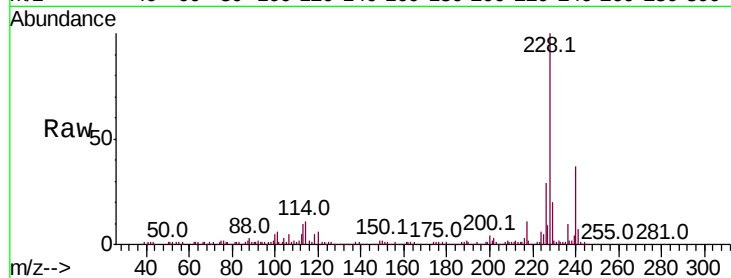
Tot Ion:228 Resp: 161923

Ion Ratio Lower Upper

228 100

226 28.9 21.8 32.6

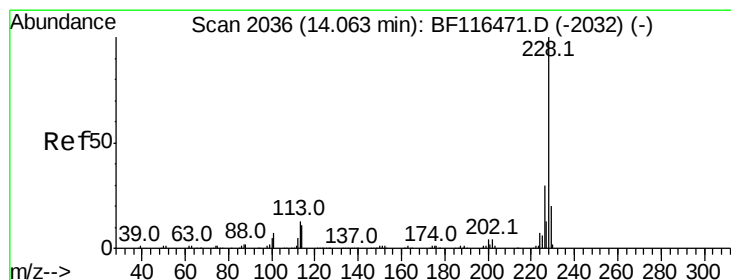
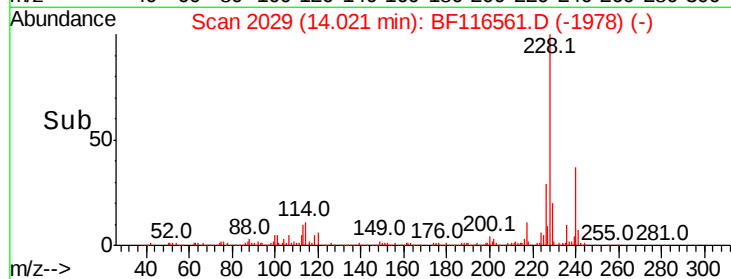
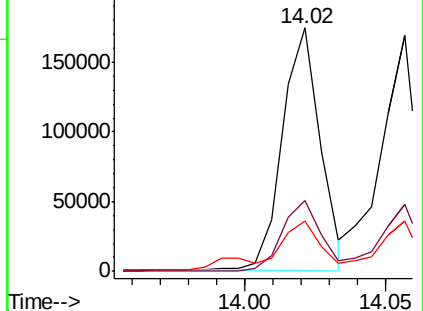
229 20.4 15.9 23.9



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: 11.007 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

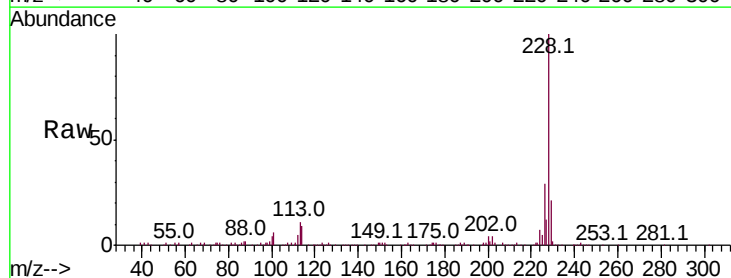
Tgt Ion:228 Resp: 152536

Ion Ratio Lower Upper

228 100

226 28.6 24.2 36.2

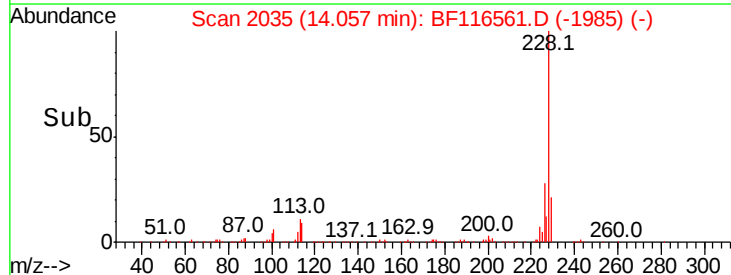
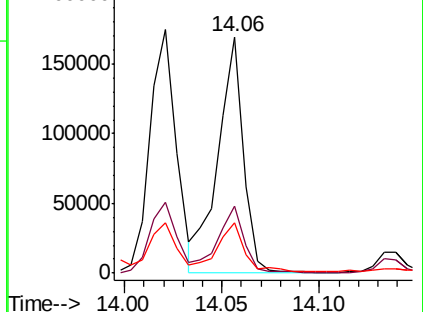
229 21.4 15.8 23.6

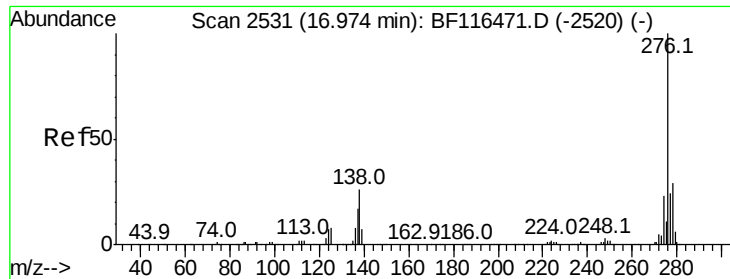


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

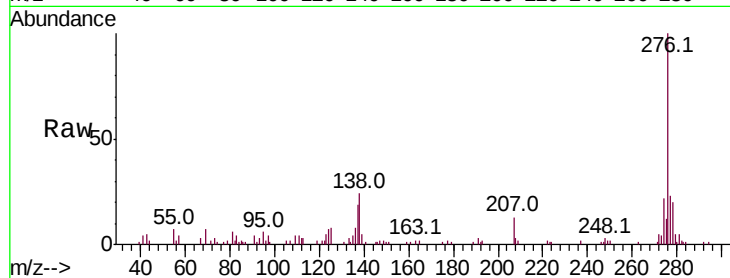




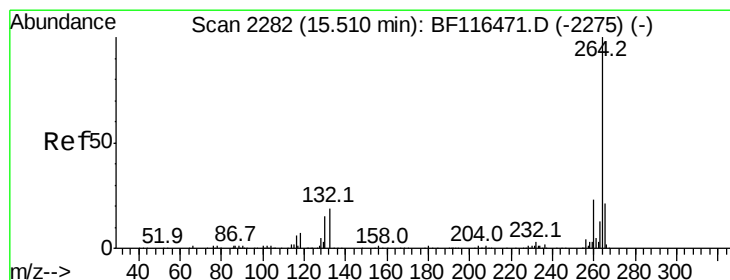
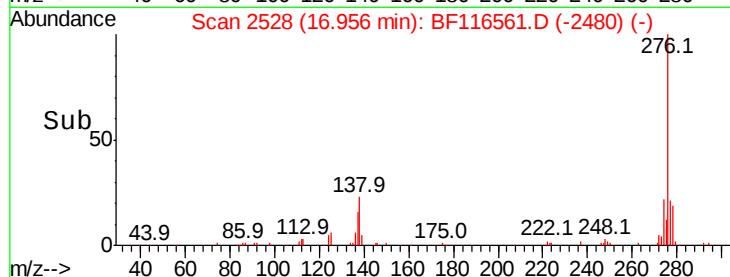
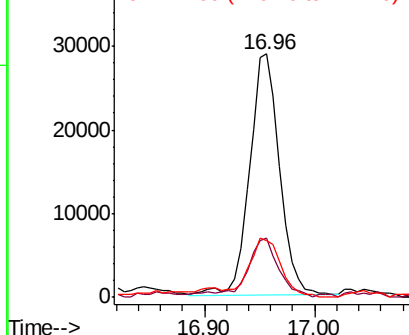
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.625 ng
 RT: 16.96 min Scan# 2528
 Delta R.T. -0.02 min
 Lab File: BF116561.D
 Acq: 26 Aug 2019 7:17

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	54904
Ion	Ratio	Lower	Upper
276	100		
138	26.1	22.9	34.3
277	26.5	19.9	29.9

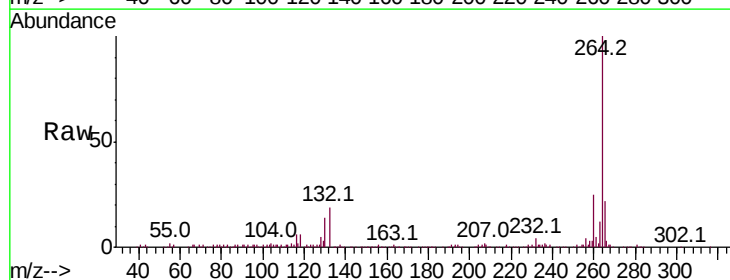


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

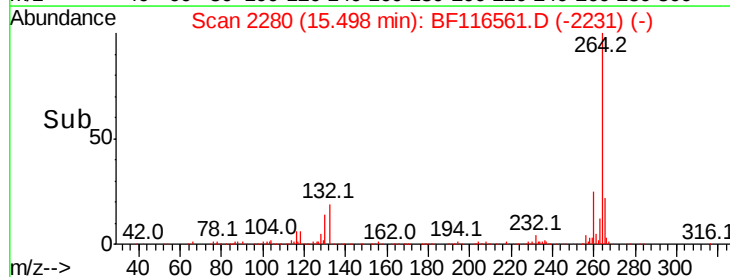
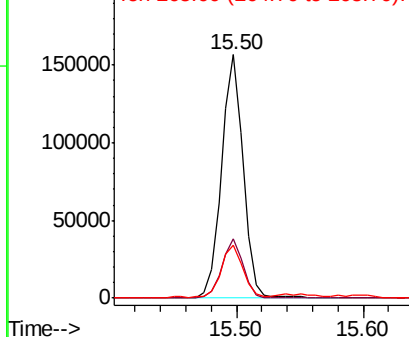


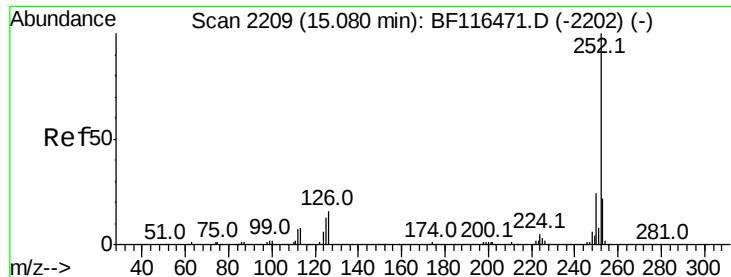
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2280
 Delta R.T. -0.01 min
 Lab File: BF116561.D
 Acq: 26 Aug 2019 7:17

Tgt Ion:	264	Resp:	185447
Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.8	28.2
265	21.8	17.1	25.7



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

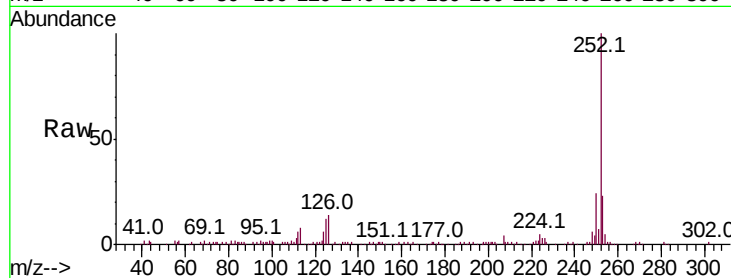




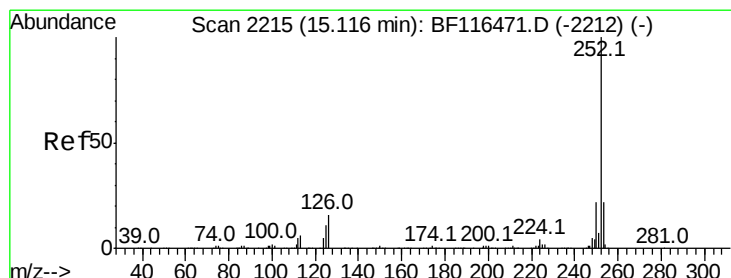
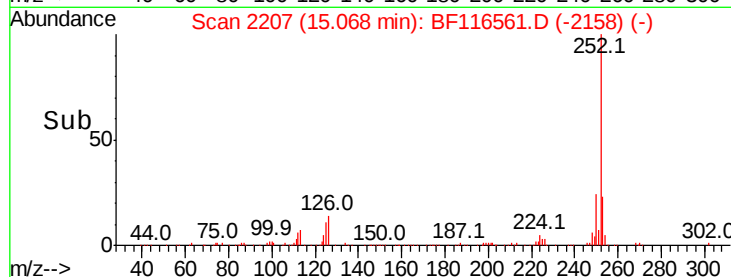
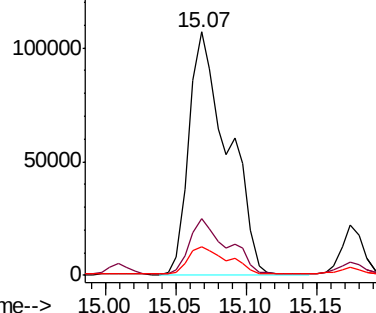
#88
Benzo(b)fluoranthene
Concen: 17.898 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	11.8	10.1	15.1

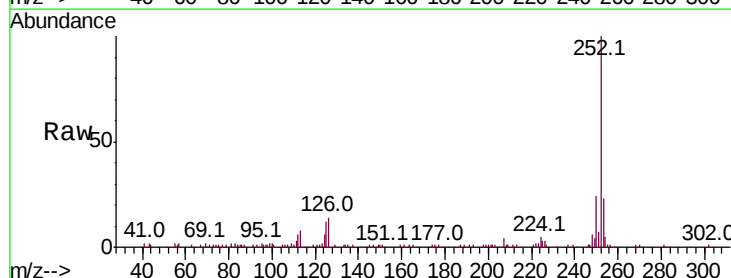


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

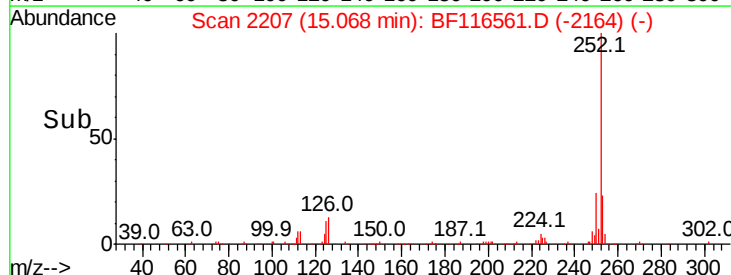
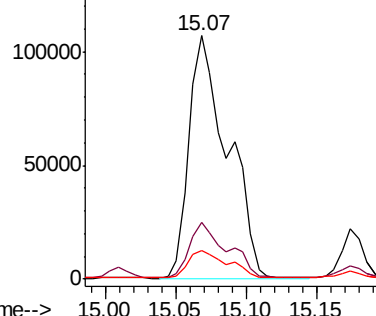


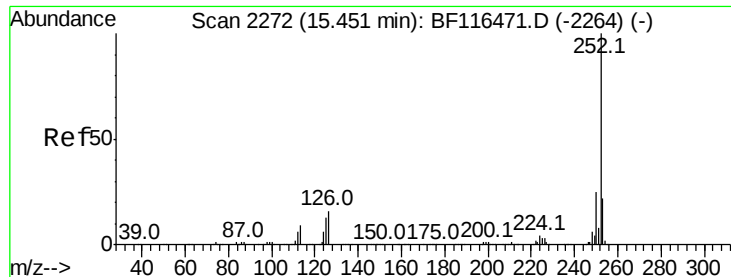
#89
Benzo(k)fluoranthene
Concen: 19.756 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.05 min
Lab File: BF116561.D
Acq: 26 Aug 2019 7:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.2
125	11.8	9.1	13.7



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: 10.434 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.02 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

Instrument :

BNA_F

ClientSampleId :

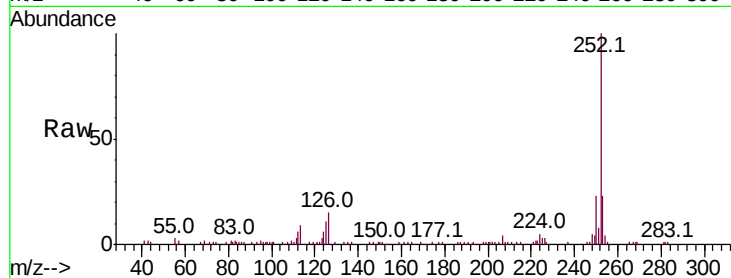
Tot Ion:252 Resp: 105641

Ion Ratio Lower Upper

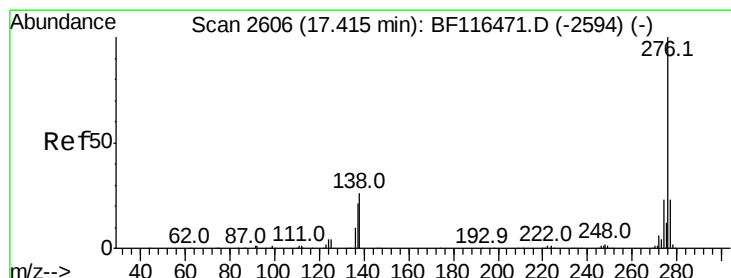
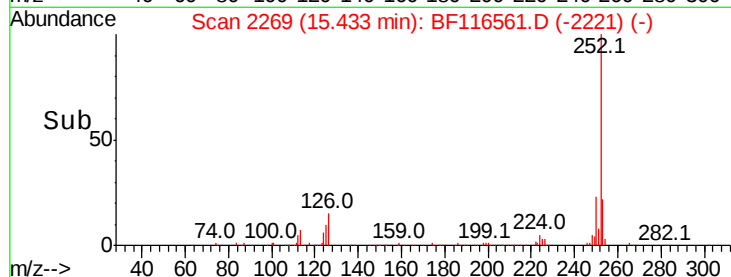
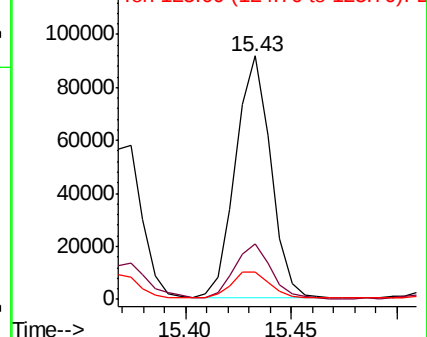
252 100

253 22.9 17.2 25.8

125 11.1 10.2 15.4



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(g,h,i)perylene

Concen: 6.581 ng

RT: 17.40 min Scan# 2603

Delta R.T. -0.02 min

Lab File: BF116561.D

Acq: 26 Aug 2019 7:17

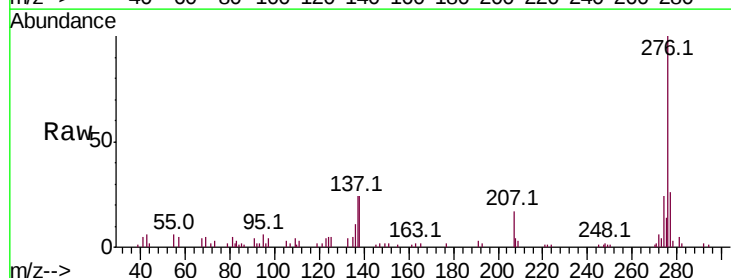
Tgt Ion:276 Resp: 52198

Ion Ratio Lower Upper

276 100

277 25.6 18.7 28.1

138 23.6 20.8 31.2



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

