

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051719\
 Data File : BF114348.D
 Acq On : 17 May 2019 14:34
 Operator : JU/SJ
 Sample : K2644-01 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 18 05:00:50 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	217058	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	882008	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	425335	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	861386	20.00	ng	0.00
76) Chrysene-d12	14.01	240	565644	20.00	ng	-0.01
87) Perylene-d12	15.50	264	635889	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	268857	19.93	ng	-0.01
7) Phenol-d6	6.49	99	368231	23.08	ng	0.00
23) Nitrobenzene-d5	7.40	82	205380	13.07	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	86236	19.61	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	423195	15.05	ng	-0.01
79) Terphenyl-d14	12.94	244	409875	14.94	ng	-0.01

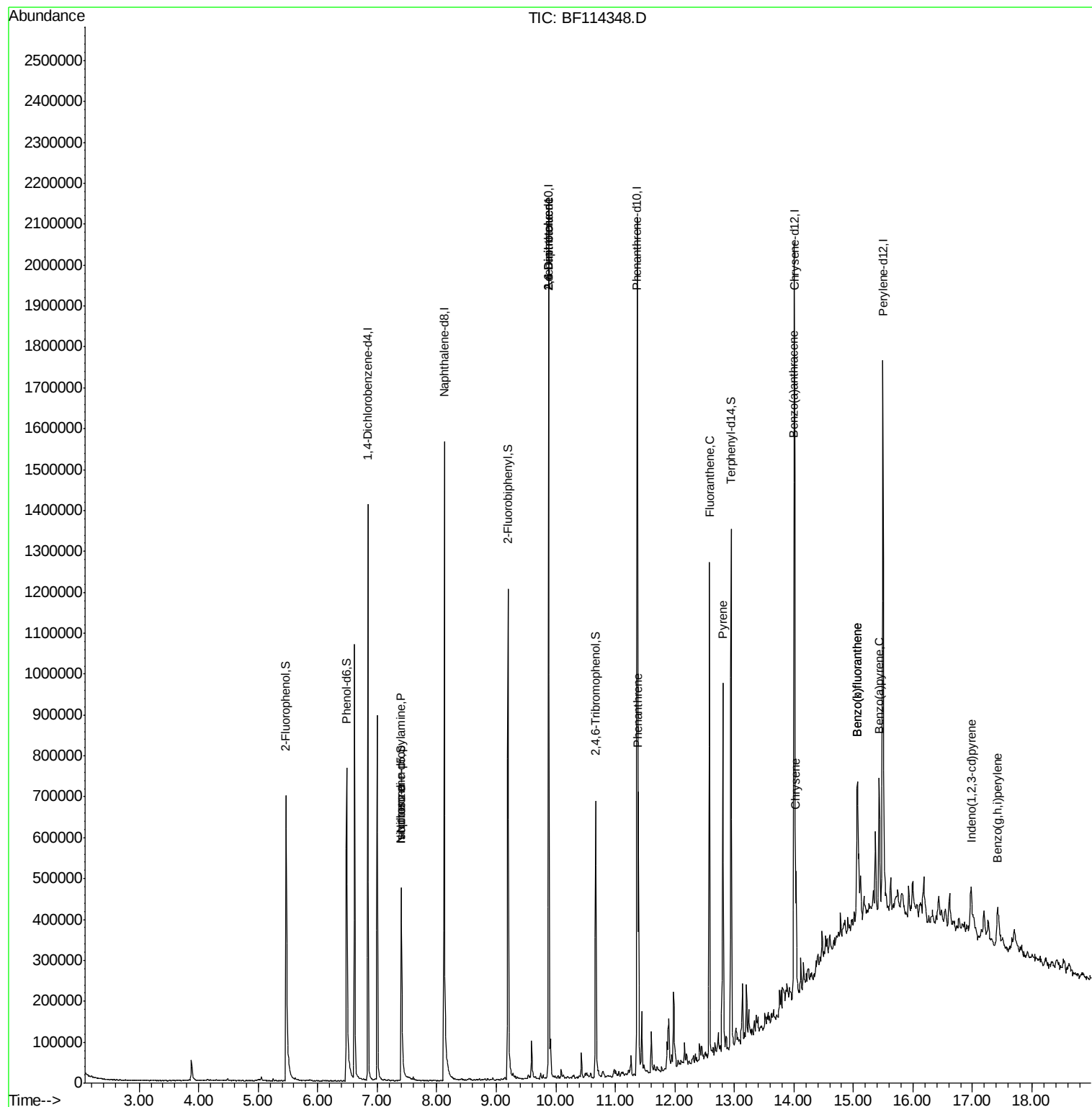
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	26507	2.621	ng	# 77
25) Isophorone	7.40	82	205378	7.046	ng	# 64
51) 2,6-Dinitrotoluene	9.88	165	54943	7.934	ng	# 22
57) 2,4-Dinitrotoluene	9.88	165	55078	5.860	ng	# 25
71) Phenanthrene	11.39	178	255497	6.097	ng	97
75) Fluoranthene	12.58	202	465966	10.325	ng	98
78) Pyrene	12.81	202	374602	8.232	ng	98
81) Benzo(a)anthracene	14.00	228	150600	4.116	ng	98
83) Chrysene	14.03	228	145442	4.055	ng	96
86) Indeno(1,2,3-cd)pyrene	16.97	276	81721	2.578	ng	97
88) Benzo(b)fluoranthene	15.07	252	262798	6.451	ng	# 96
89) Benzo(k)fluoranthene	15.07	252	262798	7.022	ng	# 96
90) Benzo(a)pyrene	15.43	252	142711	3.980	ng	99
92) Benzo(a,h,i)perylene	17.43	276	80327	2.690	ng	94

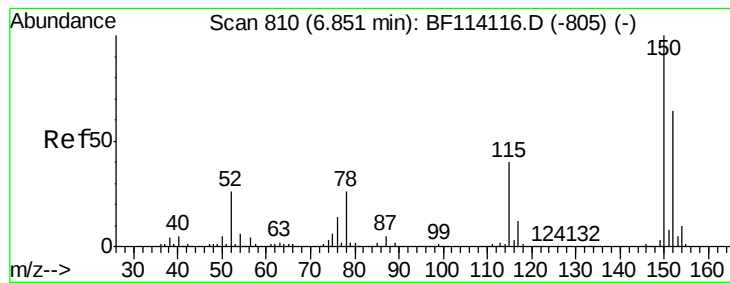
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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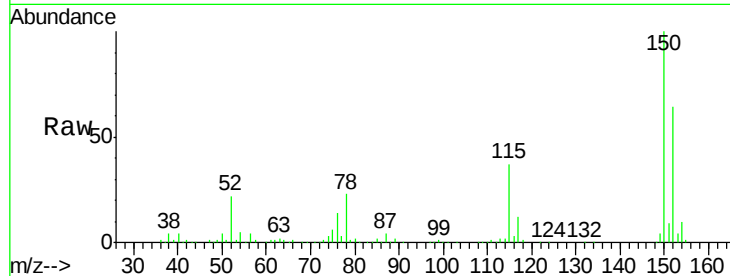


#1

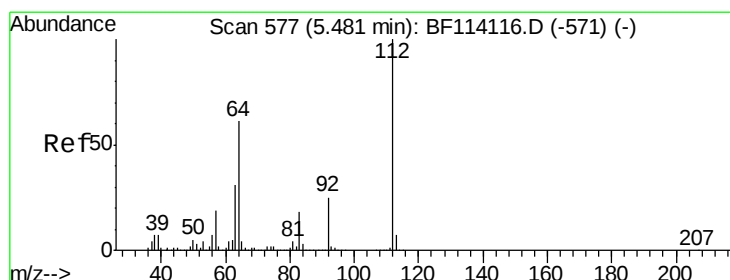
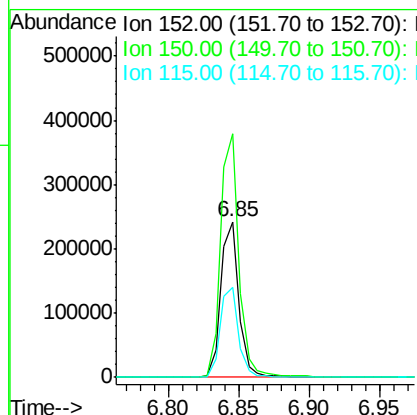
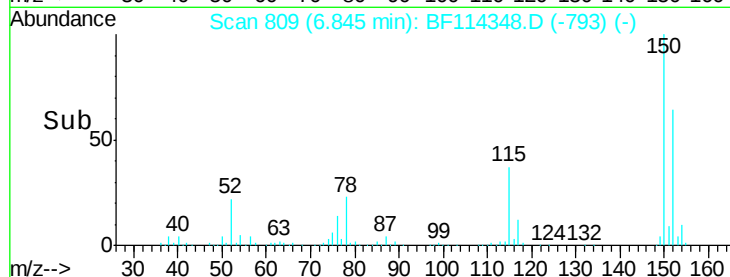
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 217058
Ion Ratio Lower Upper
152 100
150 156.1 124.3 186.5
115 58.0 49.1 73.7



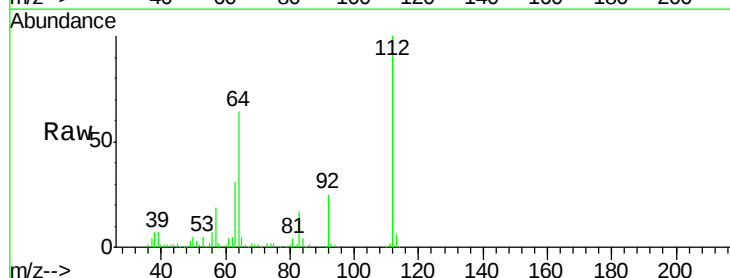
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



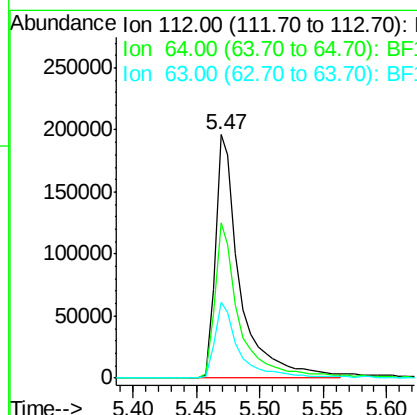
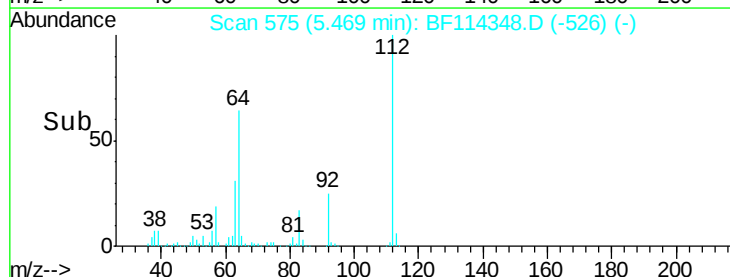
#5

2-Fluorophenol
Concen: 19.933 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

Tgt Ion:112 Resp: 268857
Ion Ratio Lower Upper
112 100
64 64.0 49.0 73.6
63 31.2 24.6 37.0



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: 23.083 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Instrument :

BNA_F

ClientSampleId :

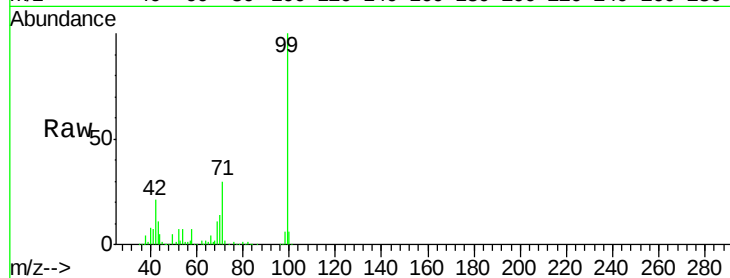
Tot Ion: 99 Resp: 368231

Ion Ratio Lower Upper

99 100

42 20.8 17.9 26.9

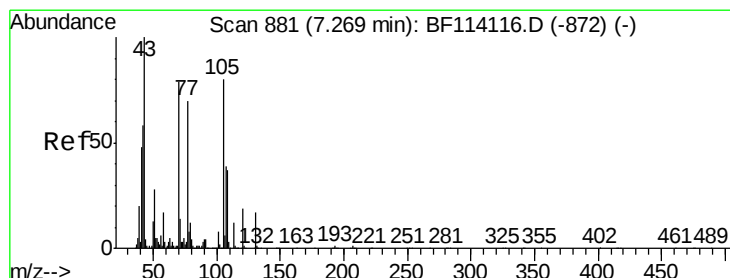
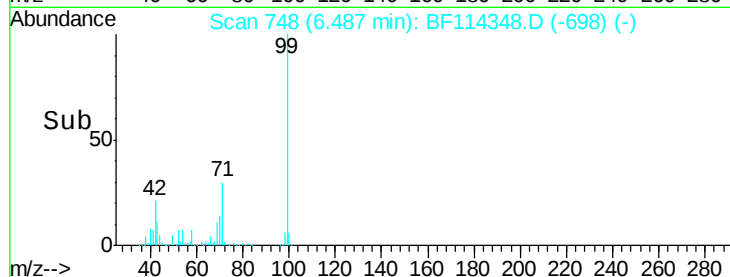
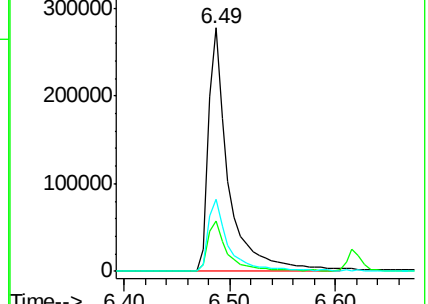
71 29.7 26.2 39.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.621 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Tgt Ion: 70 Resp: 26507

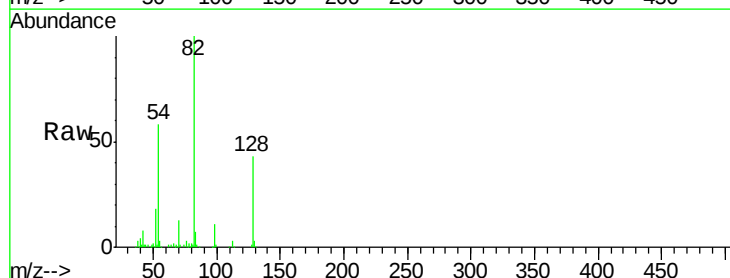
Ion Ratio Lower Upper

70 100

42 58.2 58.6 87.8#

101 0.0 7.8 11.8#

130 2.8 17.1 25.7#

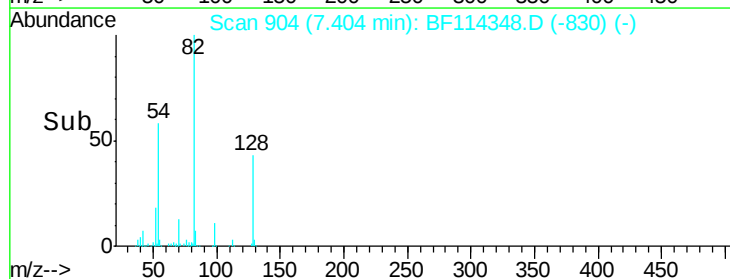
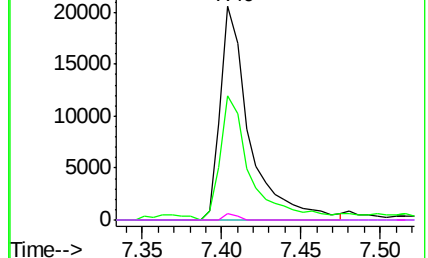


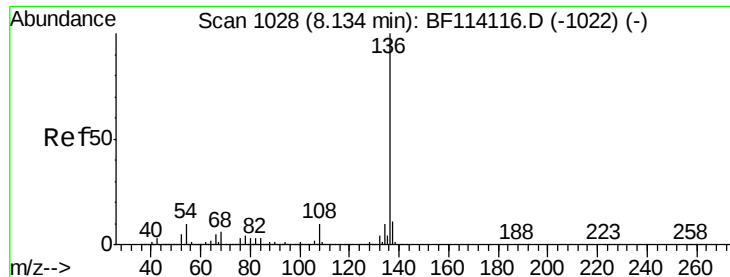
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 882008

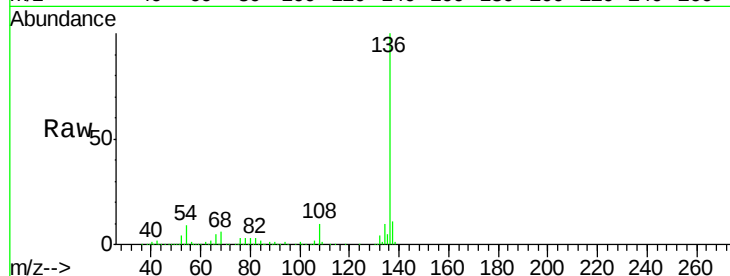
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 9.2 7.8 11.8

68 5.9 5.1 7.7

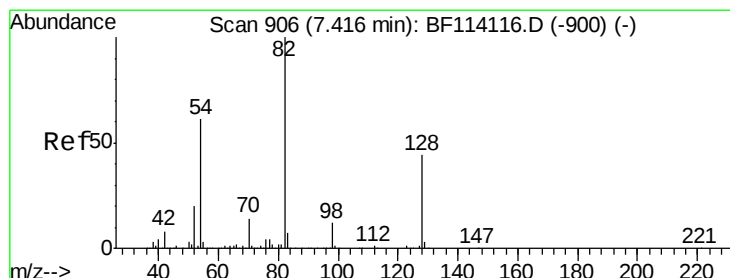
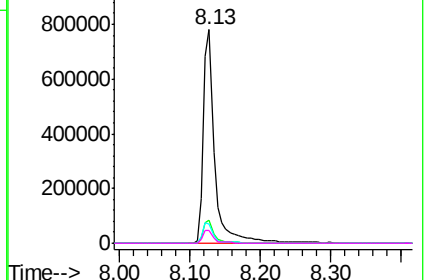
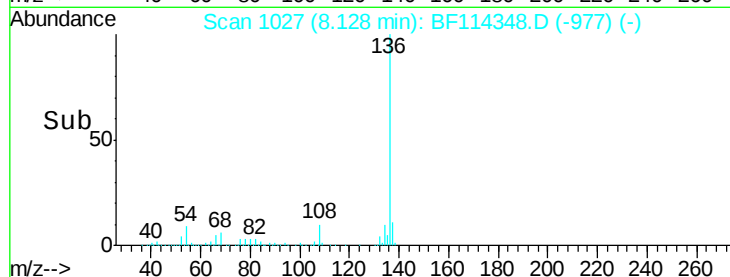


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.068 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

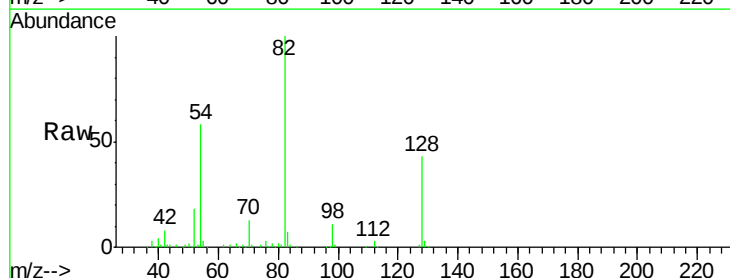
Tgt Ion: 82 Resp: 205380

Ion Ratio Lower Upper

82 100

128 42.9 35.5 53.3

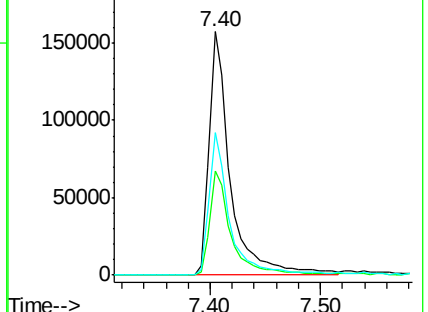
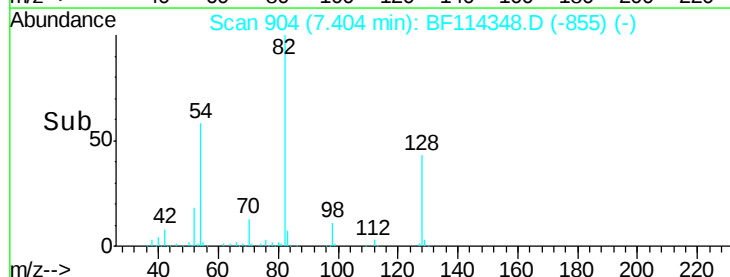
54 58.5 48.5 72.7



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: 7.046 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Instrument :

BNA_F

ClientSampleId :

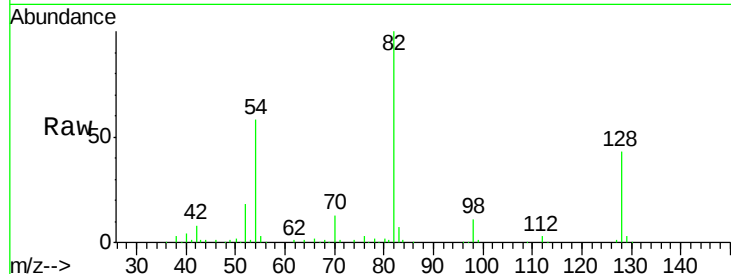
Tot Ion: 82 Resp: 205378

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

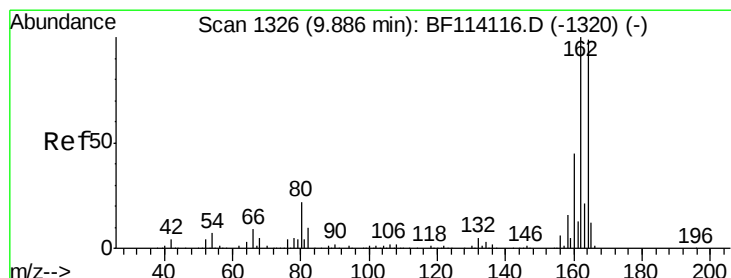
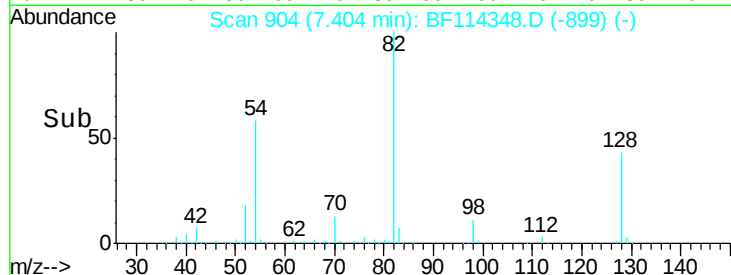
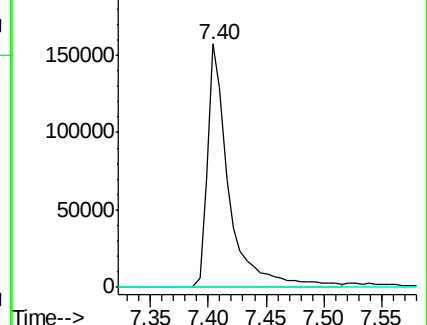
138 0.0 14.8 22.2#



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: BF114348.D

Acq: 17 May 2019 14:34

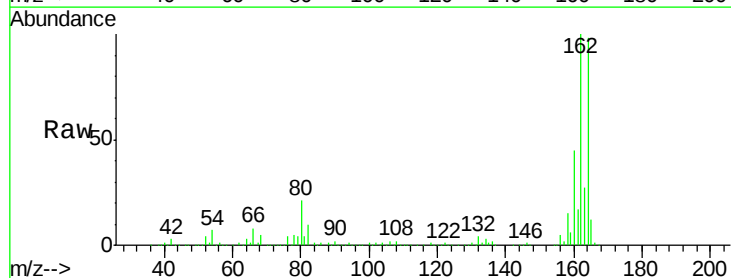
Tgt Ion: 164 Resp: 425335

Ion Ratio Lower Upper

164 100

162 102.2 80.6 120.8

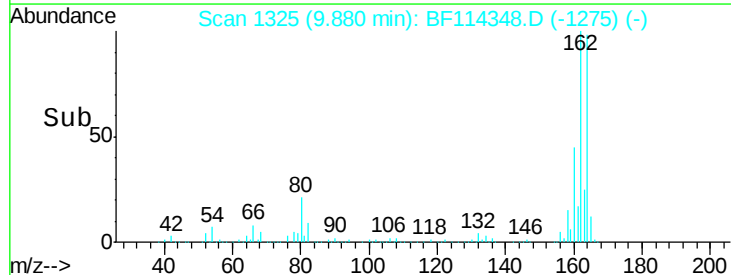
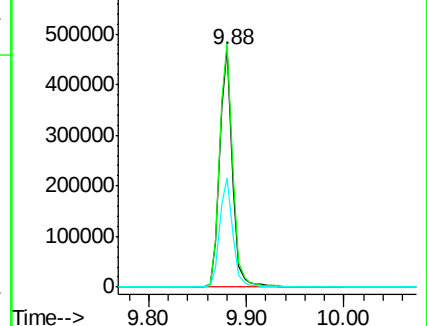
160 45.8 36.5 54.7

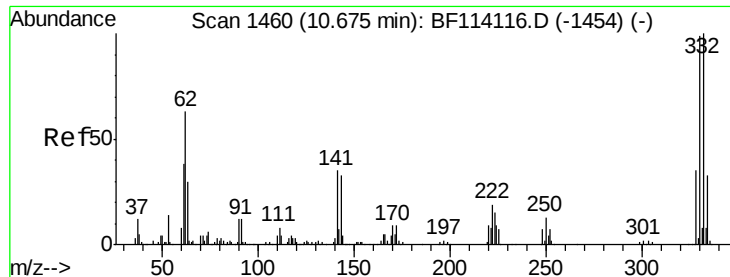


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

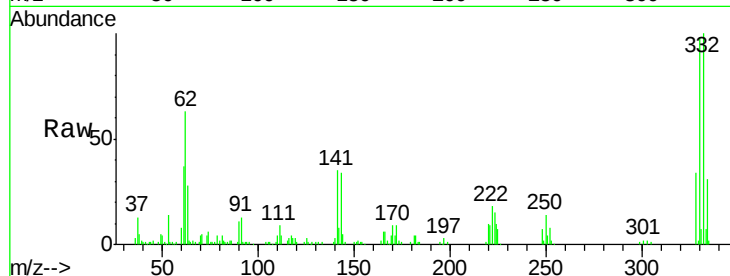




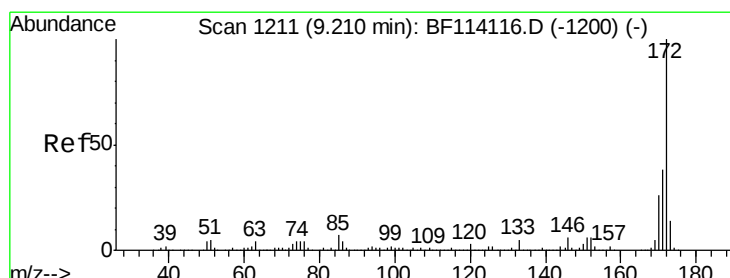
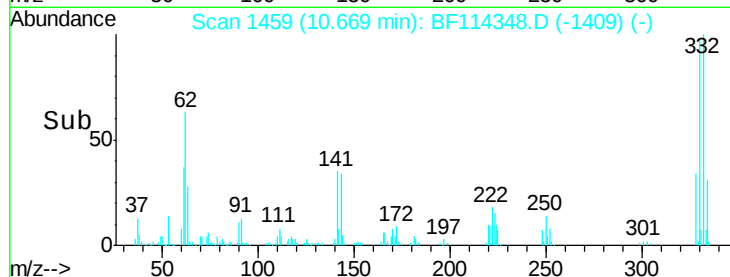
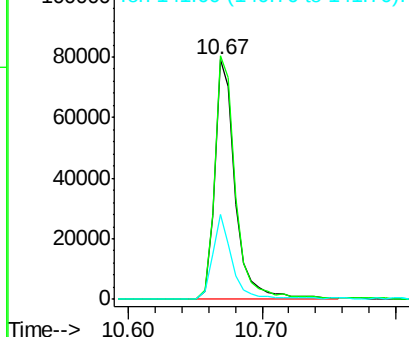
#42
 2,4,6-Tribromophenol
 Concen: 19.611 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF114348.D
 Acq: 17 May 2019 14:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	103.2	81.4	122.2
141	33.4	26.6	40.0

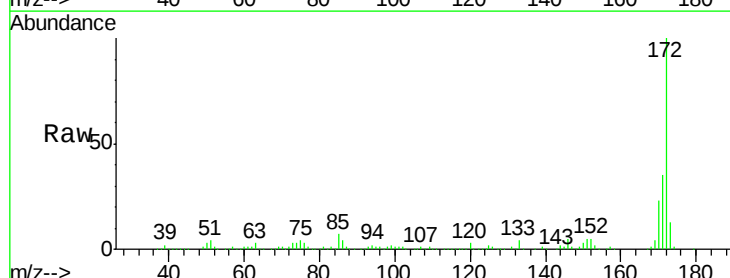


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

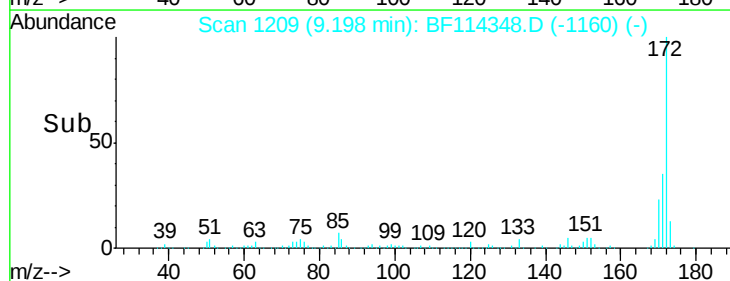
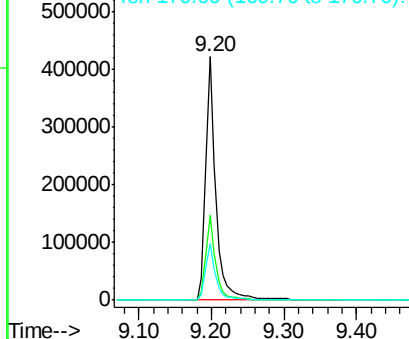


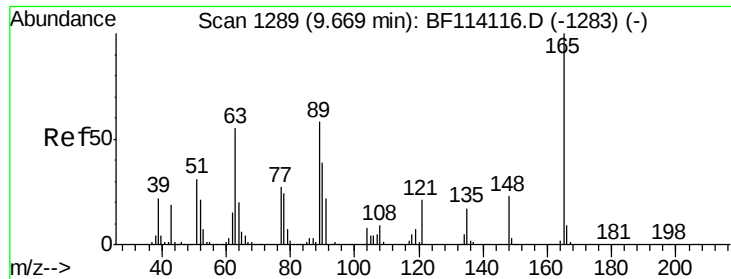
#45
 2-Fluorobiphenyl
 Concen: 15.051 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF114348.D
 Acq: 17 May 2019 14:34

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	30.7	46.1
170	23.2	20.5	30.7



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: 7.934 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.21 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Instrument :

BNA_F

ClientSampleId :

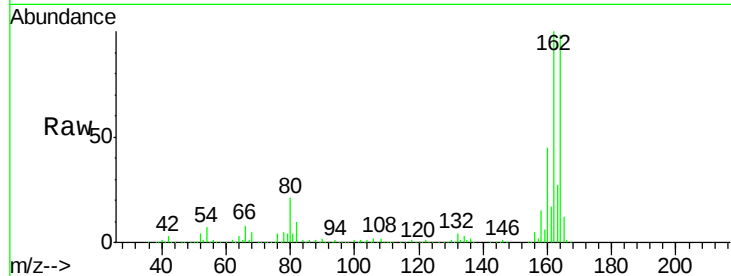
Tot Ion:165 Resp: 54943

Ion Ratio Lower Upper

165 100

63 1.8 50.2 75.4#

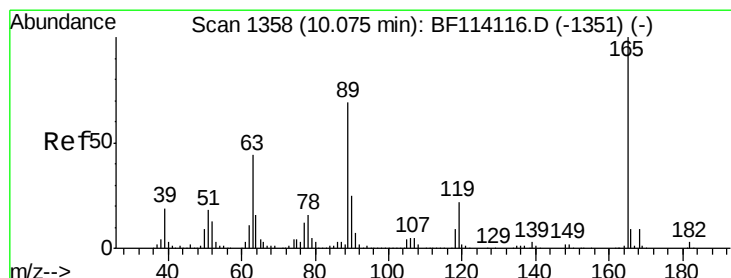
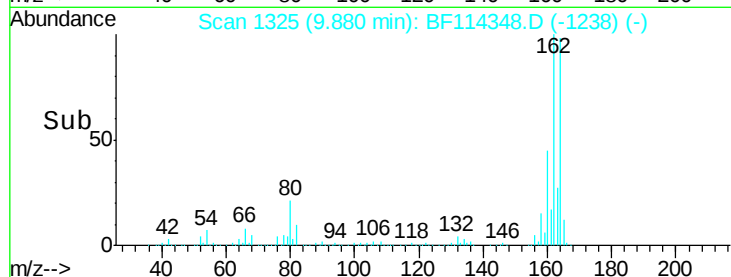
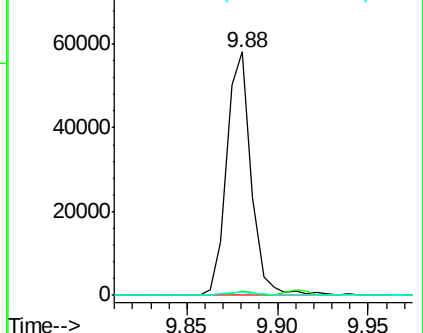
89 1.4 46.6 69.8#



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



#57

2,4-Dinitrotoluene

Concen: 5.860 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.19 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Tgt Ion:165 Resp: 55078

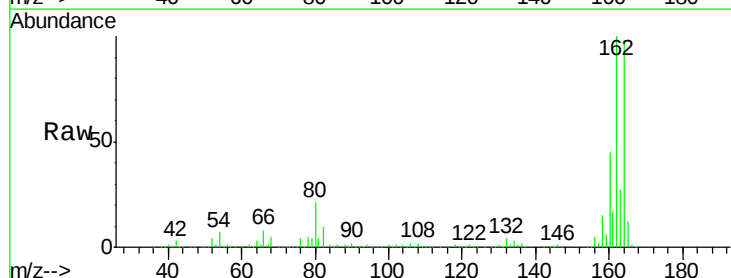
Ion Ratio Lower Upper

165 100

63 1.8 35.5 53.3#

89 1.4 55.2 82.8#

182 0.0 2.2 3.2#

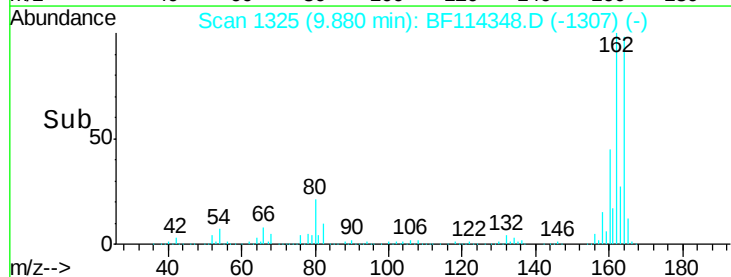
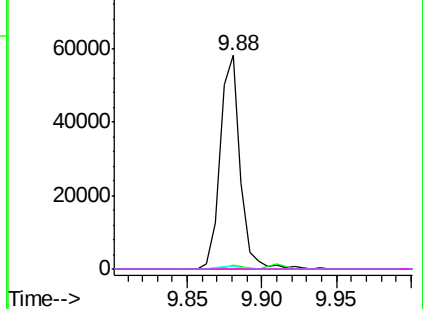


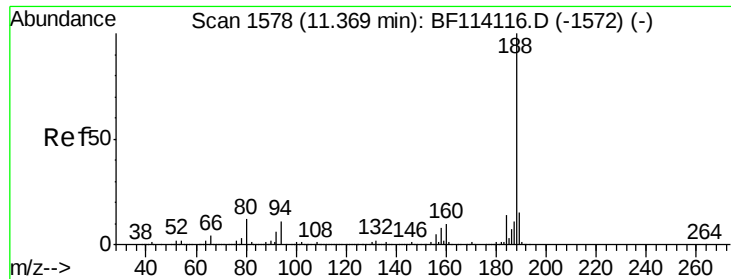
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

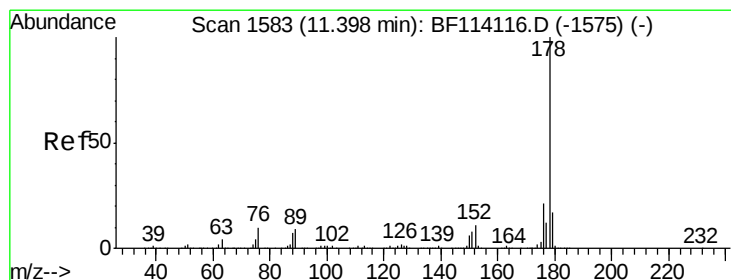
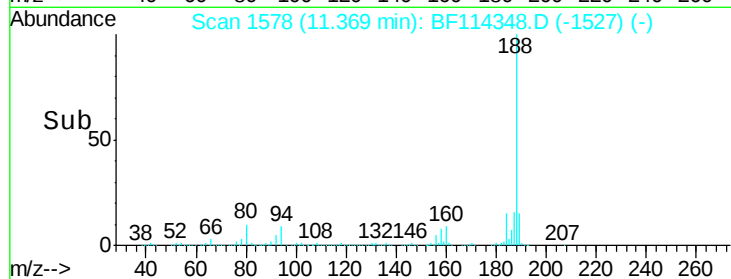
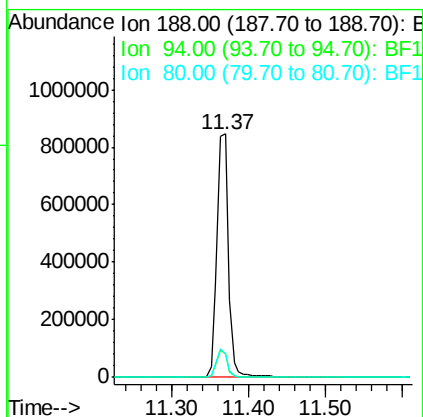
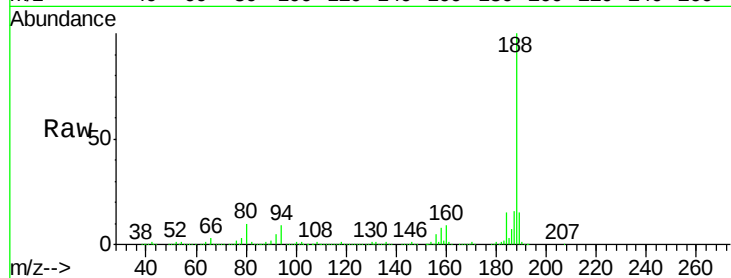




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.00 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

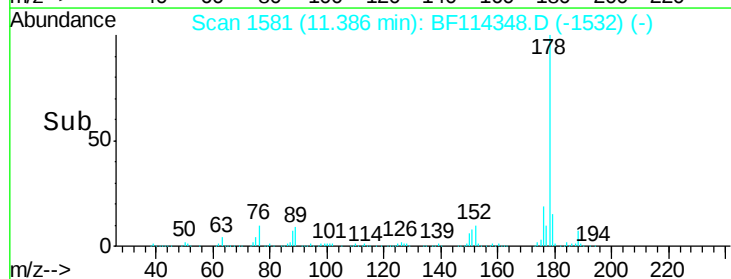
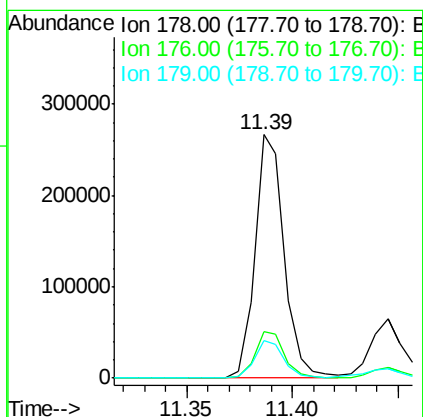
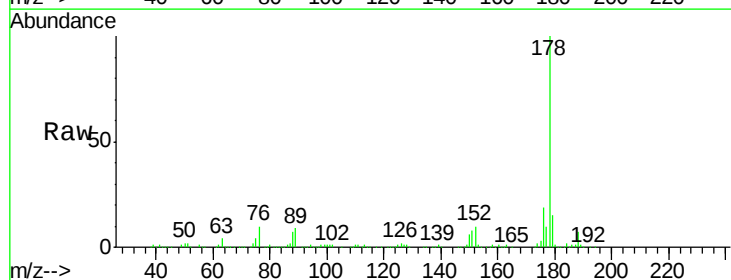
Instrument :
BNA_F
ClientSampleId :

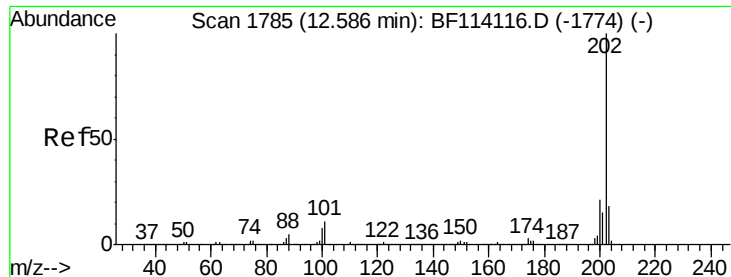
Tot Ion:188 Resp: 861386
Ion Ratio Lower Upper
188 100
94 9.4 8.4 12.6
80 9.8 9.2 13.8



#71
Phenanthrene
Concen: 6.097 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

Tgt Ion:178 Resp: 255497
Ion Ratio Lower Upper
178 100
176 19.2 16.4 24.6
179 15.5 13.2 19.8





#75

Fluoranthene

Concen: 10.325 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Instrument :

BNA_F

ClientSampleId :

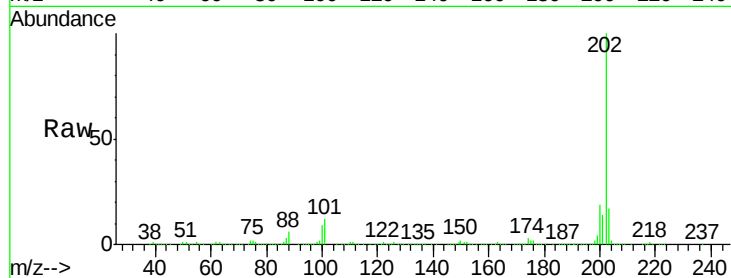
Tot Ion:202 Resp: 465966

Ion Ratio Lower Upper

202 100

101 11.9 0.0 31.0

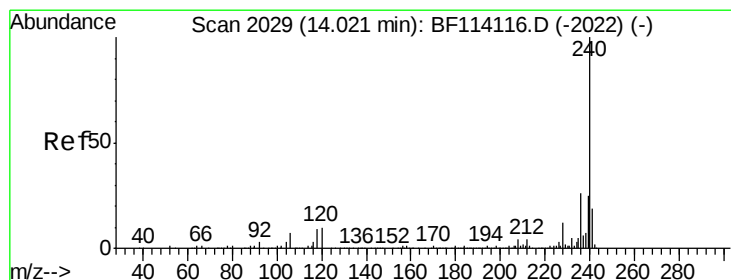
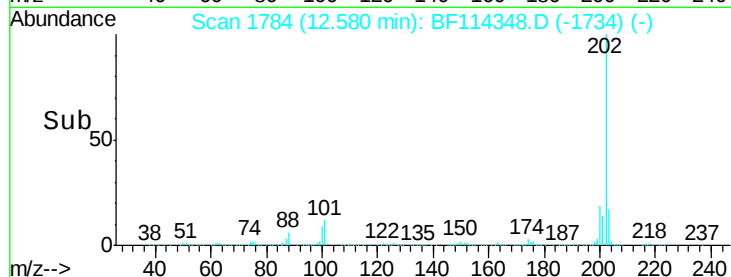
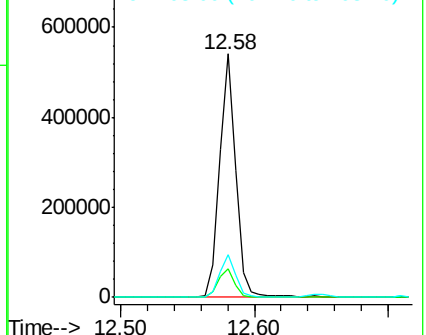
203 17.3 0.0 38.4



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: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

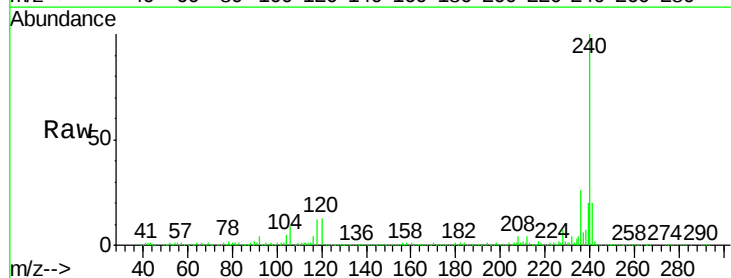
Tgt Ion:240 Resp: 565644

Ion Ratio Lower Upper

240 100

120 12.8 8.3 12.5#

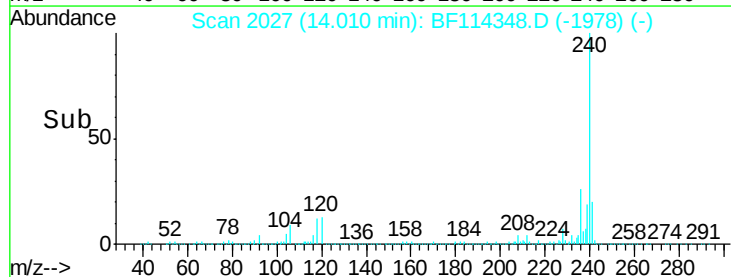
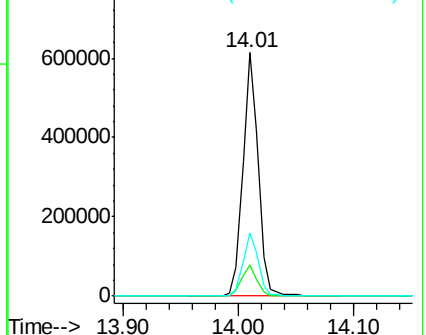
236 25.9 20.8 31.2

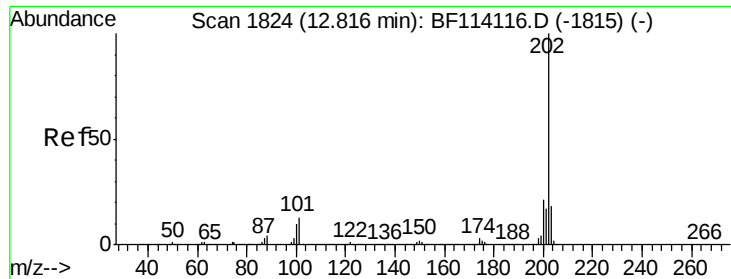


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 8.232 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Instrument :

BNA_F

ClientSampled :

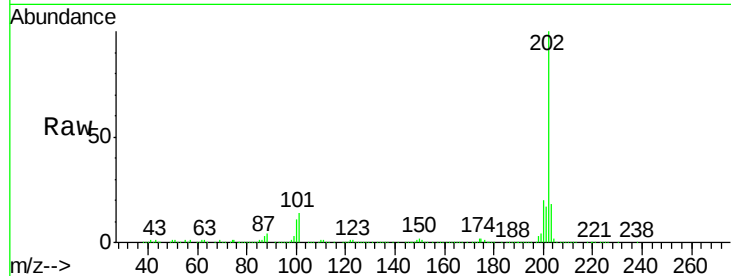
Tot Ion:202 Resp: 374602

Ion Ratio Lower Upper

202 100

200 19.6 16.9 25.3

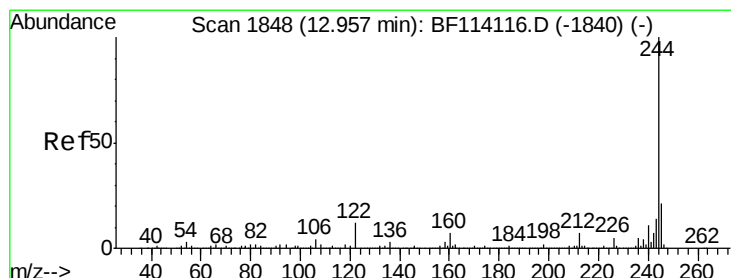
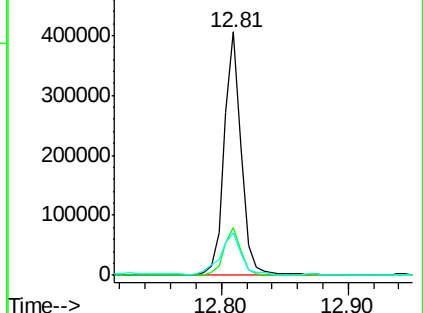
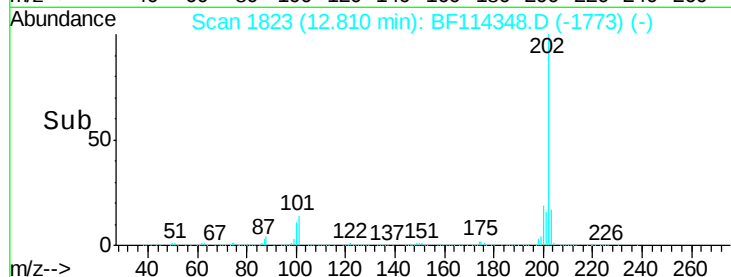
203 17.6 14.5 21.7



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: 14.937 ng

RT: 12.94 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

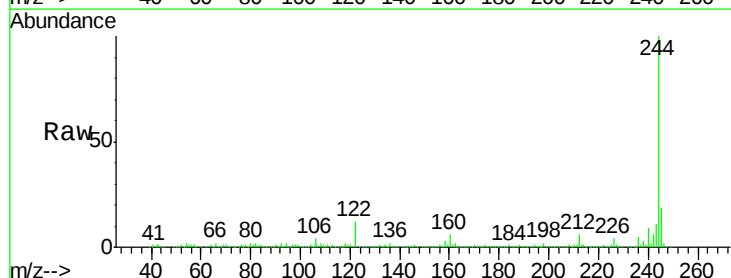
Tgt Ion:244 Resp: 409875

Ion Ratio Lower Upper

244 100

212 6.2 5.8 8.6

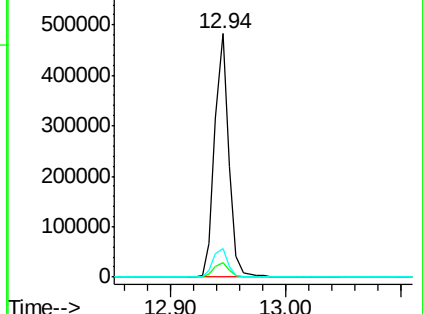
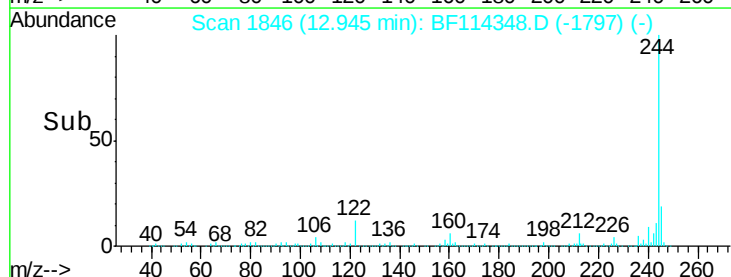
122 11.7 9.4 14.2

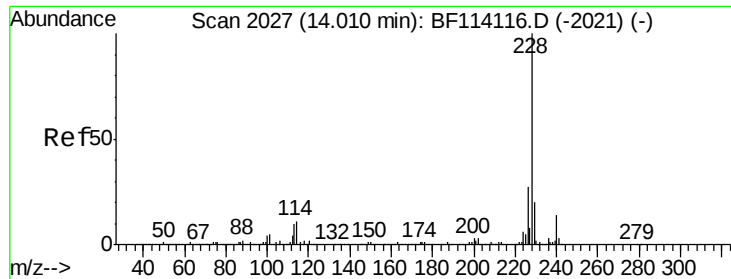


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 4.116 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

Instrument :

BNA_F

ClientSampleId :

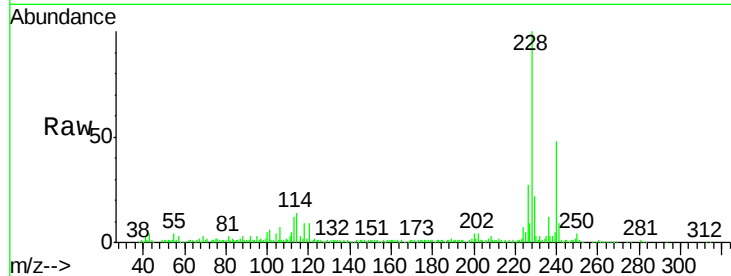
Tot Ion:228 Resp: 150600

Ion Ratio Lower Upper

228 100

226 27.0 22.2 33.2

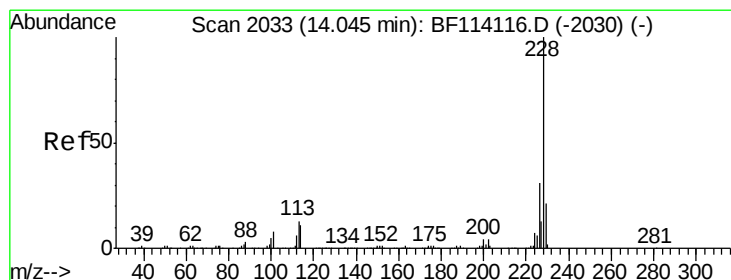
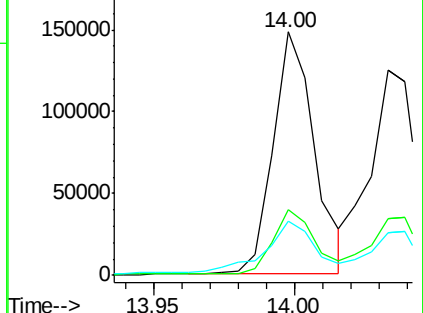
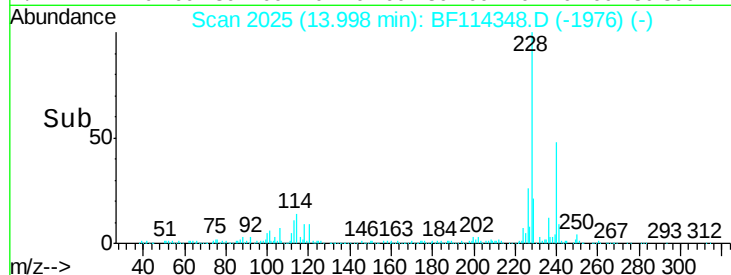
229 22.2 16.4 24.6



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: 4.055 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF114348.D

Acq: 17 May 2019 14:34

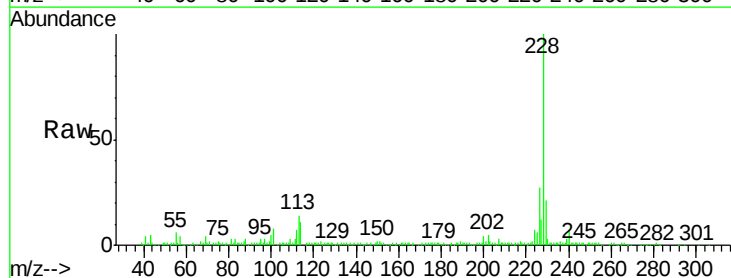
Tgt Ion:228 Resp: 145442

Ion Ratio Lower Upper

228 100

226 27.5 25.0 37.6

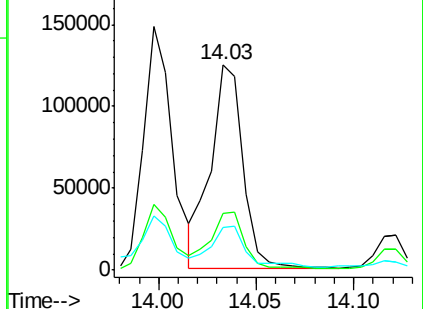
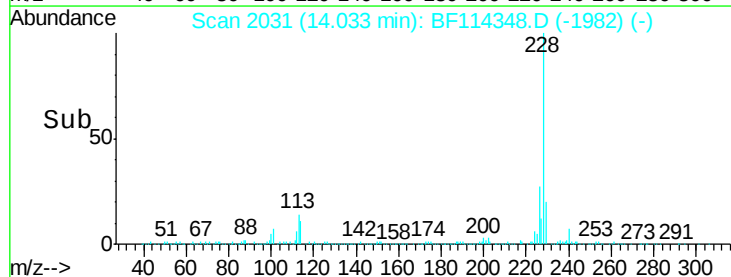
229 21.0 17.0 25.6

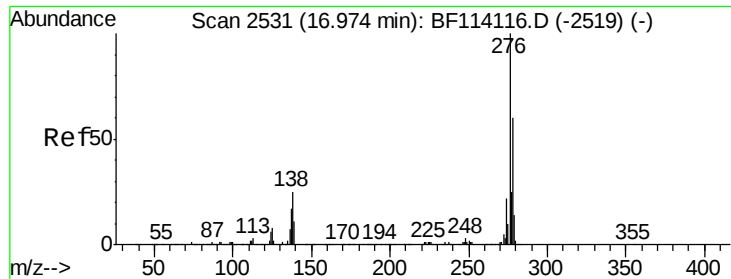


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

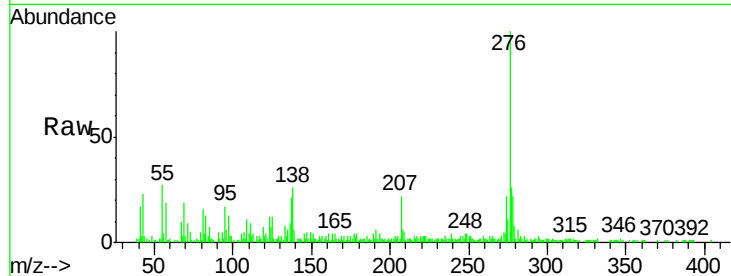




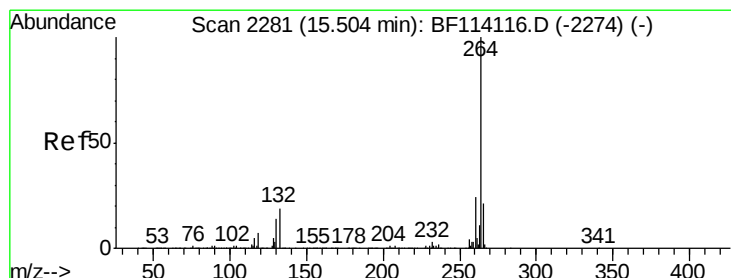
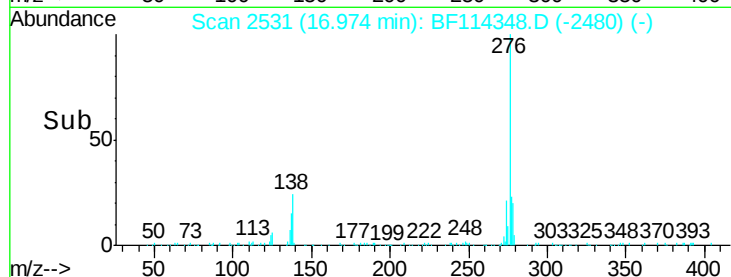
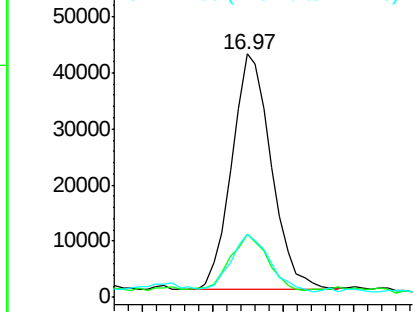
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.578 ng
 RT: 16.97 min Scan# 2531
 Delta R.T. -0.00 min
 Lab File: BF114348.D
 Acq: 17 May 2019 14:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.4	20.2	30.2
277	24.4	20.0	30.0

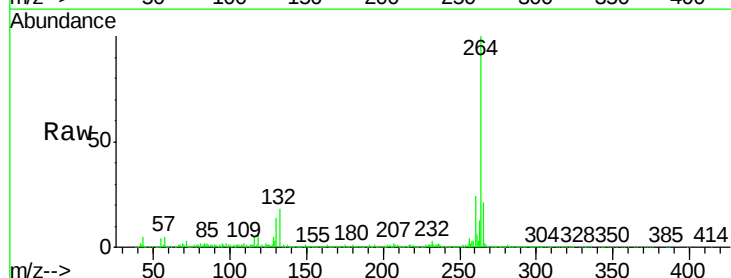


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

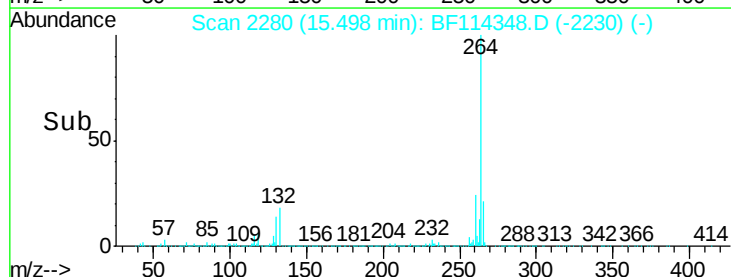
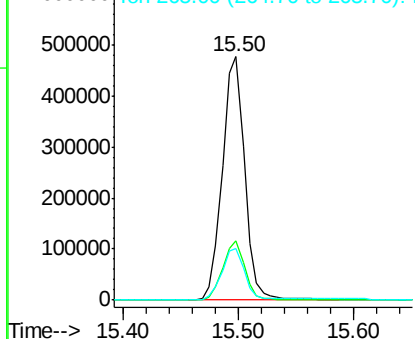


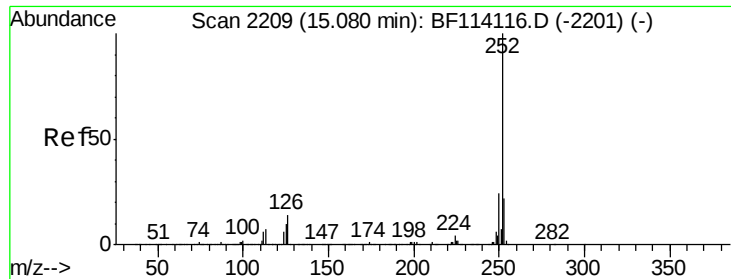
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2280
 Delta R.T. -0.01 min
 Lab File: BF114348.D
 Acq: 17 May 2019 14:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.0
265	21.2	16.9	25.3



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

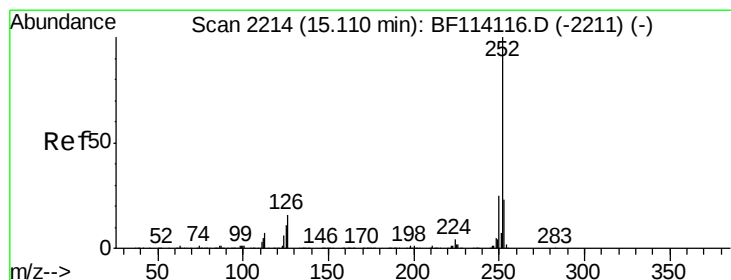
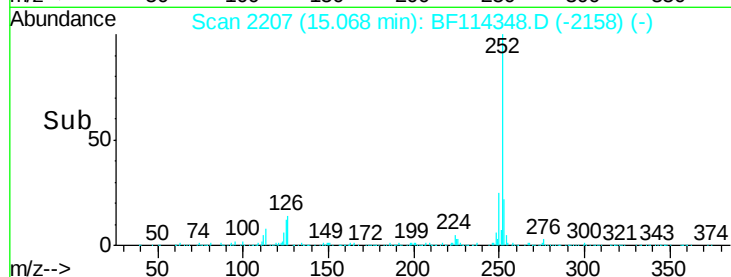
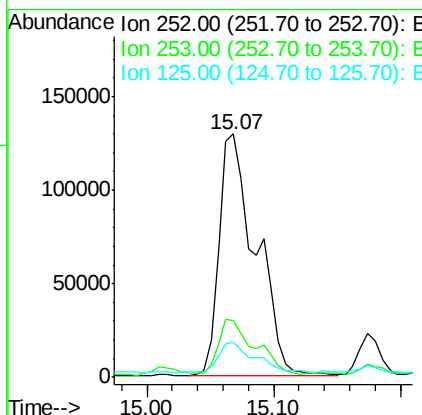
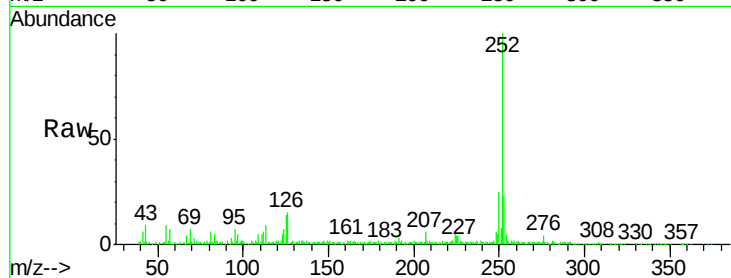




#88
Benzo(b)fluoranthene
Concen: 6.451 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

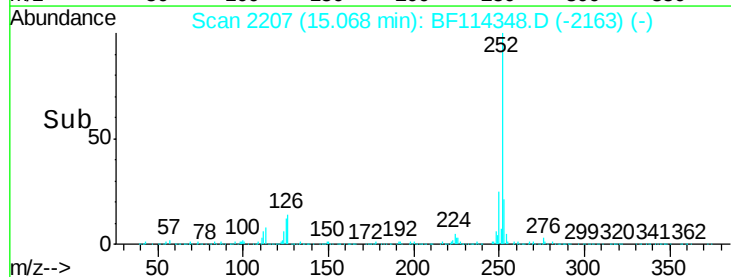
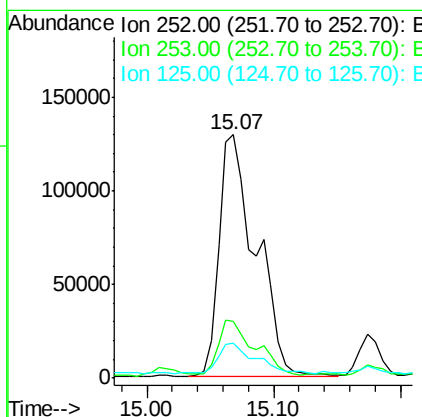
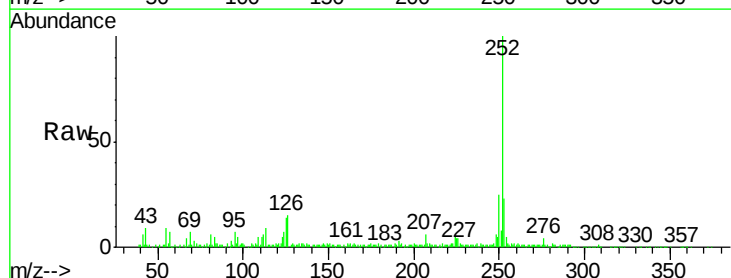
Instrument :
BNA_F
ClientSampleId :

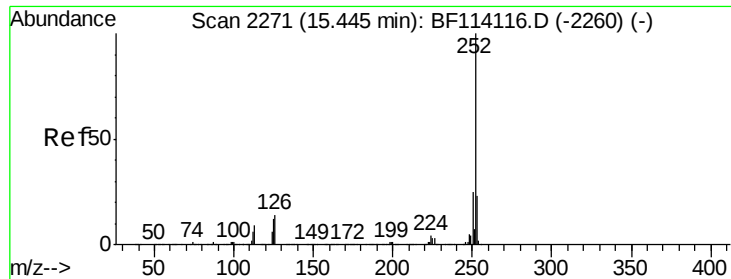
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	14.2	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 7.022 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.04 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.2
125	14.2	8.6	13.0

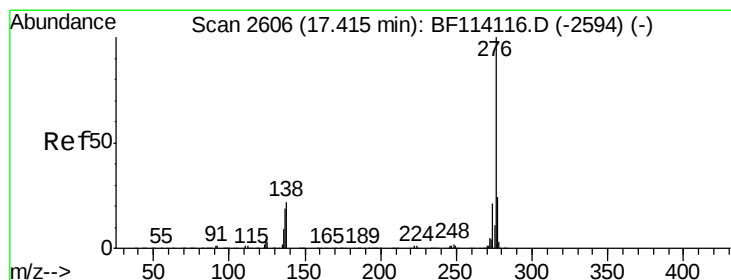
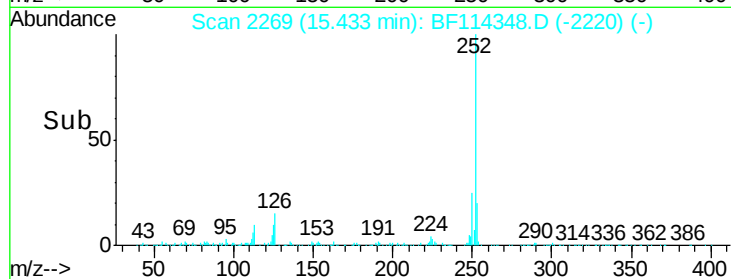
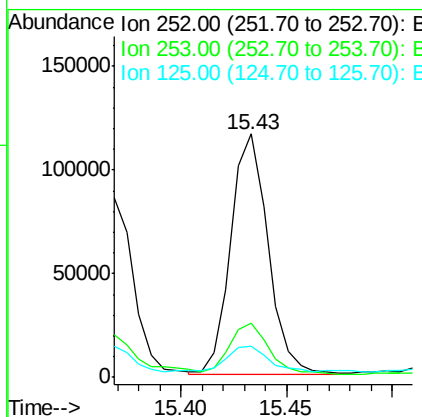
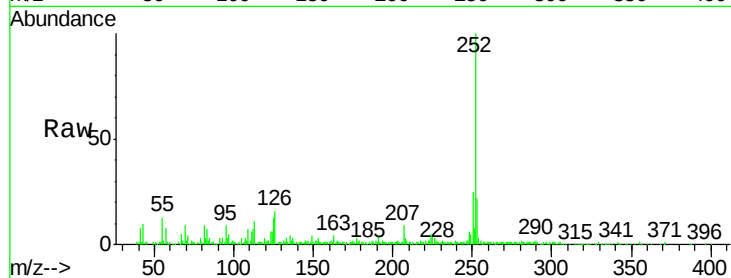




#90
Benzo(a)pyrene
Concen: 3.980 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 142711
Ion Ratio Lower Upper
252 100
253 22.2 18.1 27.1
125 12.7 9.5 14.3



#92
Benzo(g,h,i)perylene
Concen: 2.690 ng
RT: 17.43 min Scan# 2608
Delta R.T. 0.01 min
Lab File: BF114348.D
Acq: 17 May 2019 14:34

Tgt Ion:276 Resp: 80327
Ion Ratio Lower Upper
276 100
277 26.7 19.0 28.4
138 24.6 17.8 26.6

