

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093019\
 Data File : BF117267.D
 Acq On : 30 Sep 2019 18:16
 Operator : JU
 Sample : K5038-03DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DN-2DL

Quant Time: Oct 01 01:40:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	27460	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	117400	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	63008	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	105486	20.00	ng	0.00
76) Chrysene-d12	13.97	240	75221	20.00	ng	0.00
87) Perylene-d12	15.43	264	79474	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	30138	17.14	ng	0.00
7) Phenol-d6	6.45	99	46899	20.63	ng	0.00
23) Nitrobenzene-d5	7.37	82	29406	13.16	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	9993	18.98	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	60020	14.89	ng	-0.01
79) Terphenyl-d14	12.91	244	61447	15.27	ng	0.00

Target Compounds

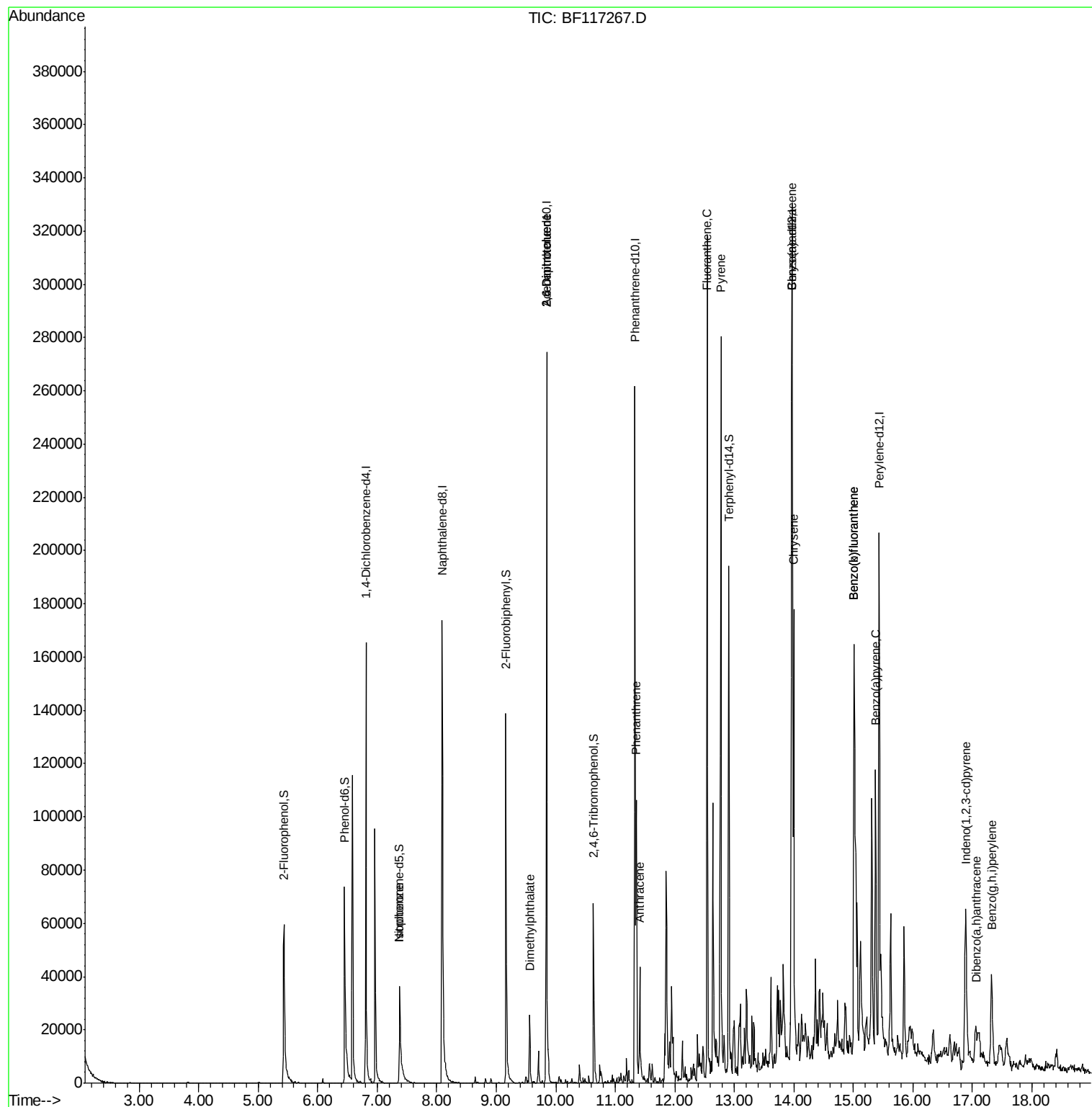
						Qvalue
9) Benzaldehyde	6.58	77	737	Below Cal	#	72
25) Isophorone	7.37	82	29406	7.433 ng	#	66
50) Dimethylphthalate	9.56	163	12792	2.867 ng		99
51) 2,6-Dinitrotoluene	9.85	165	8020	8.827 ng	#	24
57) 2,4-Dinitrotoluene	9.85	165	8020	6.800 ng	#	18
71) Phenanthrene	11.35	178	42832	7.149 ng		99
72) Anthracene	11.41	178	25231	4.125 ng		99
75) Fluoranthene	12.54	202	135406	21.995 ng		97
78) Pyrene	12.77	202	124628	19.746 ng		97
81) Benzo(a)anthracene	13.96	228	65029	12.940 ng		98
83) Chrysene	14.00	228	68630	14.002 ng		97
86) Indeno(1,2,3-cd)pyrene	16.89	276	37126	10.382 ng	#	92
88) Benzo(b)fluoranthene	15.01	252	112476	23.364 ng		99
89) Benzo(k)fluoranthene	15.01	252	112476	24.665 ng		99
90) Benzo(a)pyrene	15.37	252	57329	13.571 ng		96
91) Dibenzo(a,h)anthracene	17.05	278	7834	2.328 ng		98
92) Benzo(g,h,i)perylene	17.32	276	31943	9.525 ng		97

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

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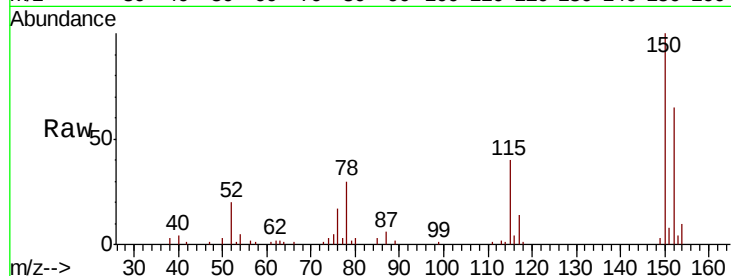


#1

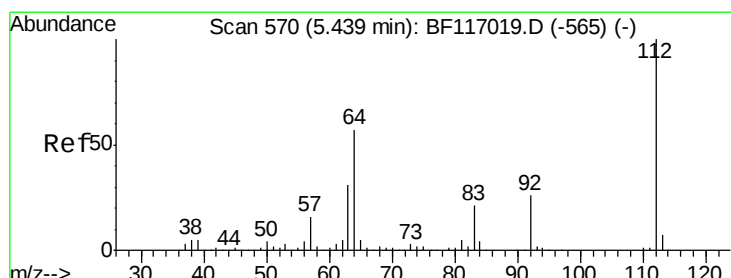
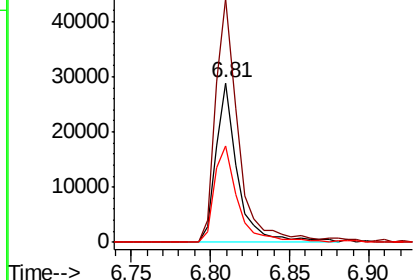
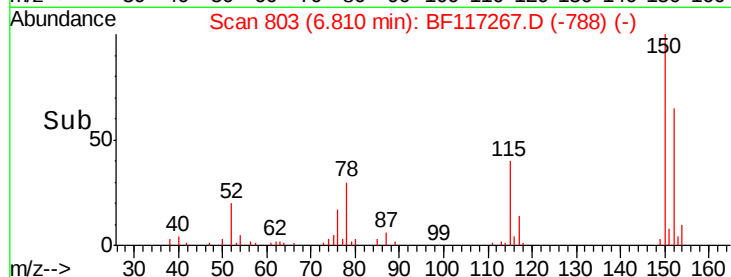
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

Instrument :
BNA_F
ClientSampleId :
DN-2DL

Tot Ion:152 Resp: 27460
Ion Ratio Lower Upper
152 100
150 152.9 127.5 191.3
115 60.8 55.0 82.4



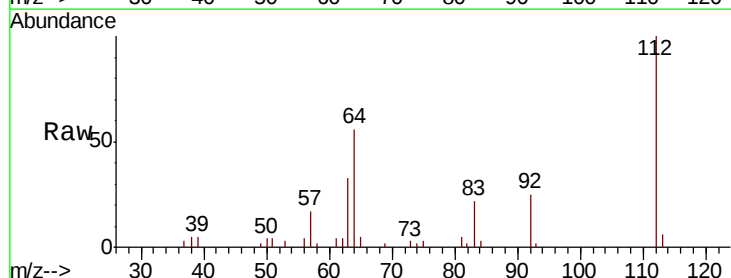
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



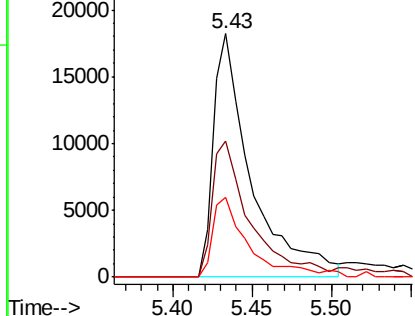
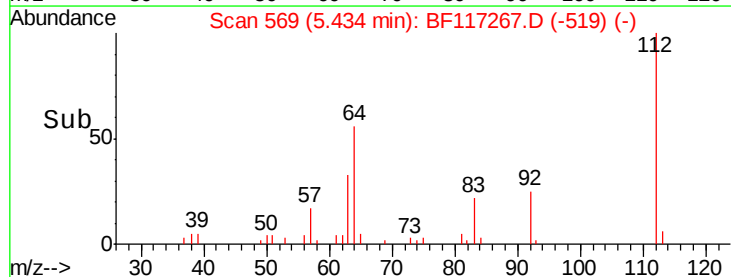
#5

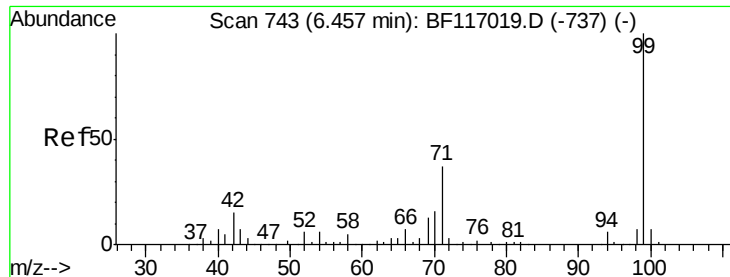
2-Fluorophenol
Concen: 17.135 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

Tgt Ion:112 Resp: 30138
Ion Ratio Lower Upper
112 100
64 56.0 45.7 68.5
63 33.0 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: 20.632 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampled :

DN-2DL

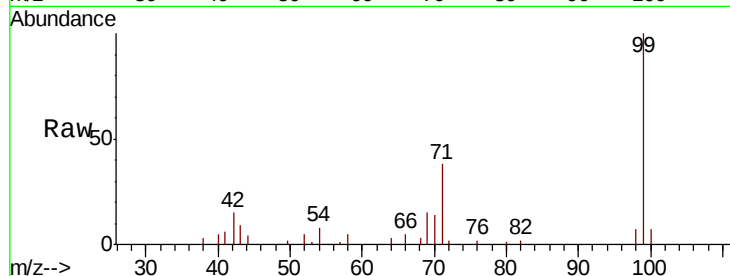
Tot Ion: 99 Resp: 46899

Ion Ratio Lower Upper

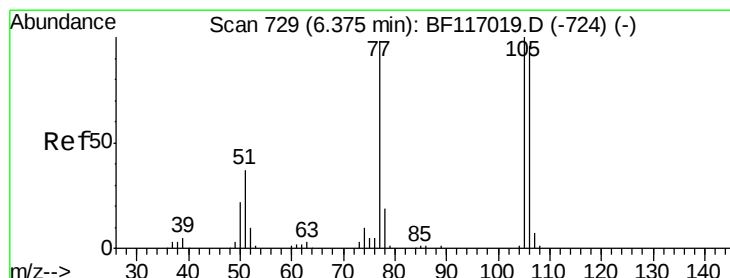
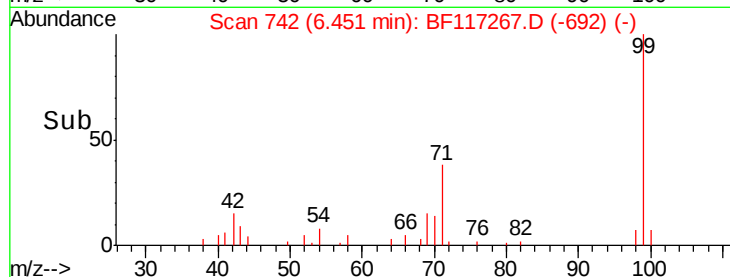
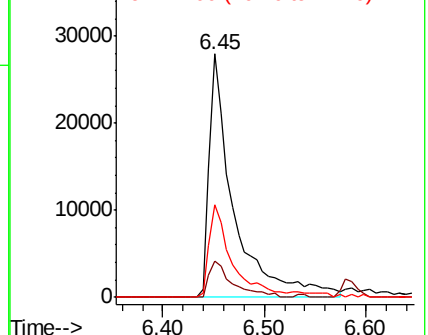
99 100

42 14.7 12.2 18.2

71 38.1 29.8 44.8



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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.58 min Scan# 764

Delta R.T. 0.21 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

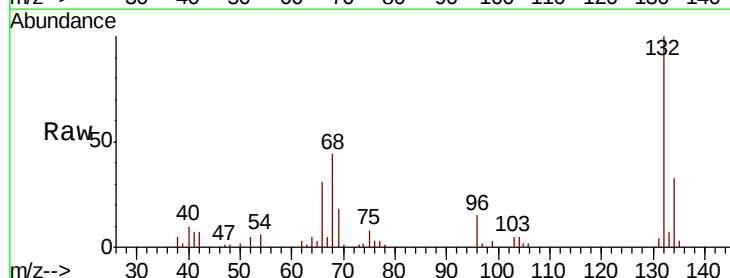
Tgt Ion: 77 Resp: 737

Ion Ratio Lower Upper

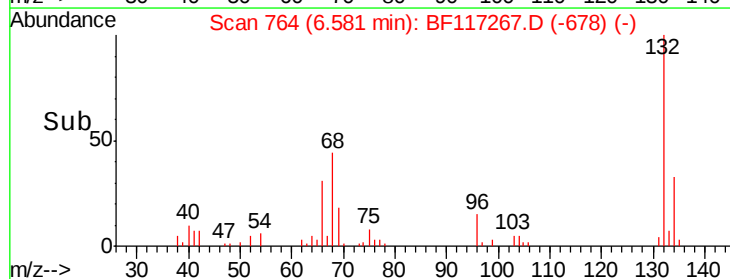
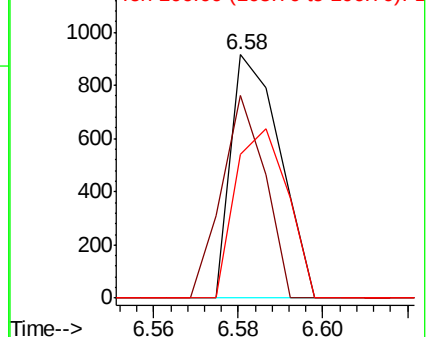
77 100

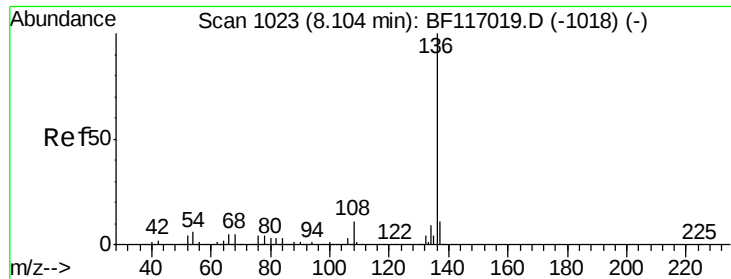
105 83.4 81.8 121.8

106 59.1 77.3 117.3#



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampleId :

DN-2DL

Tot Ion:136 Resp: 117400

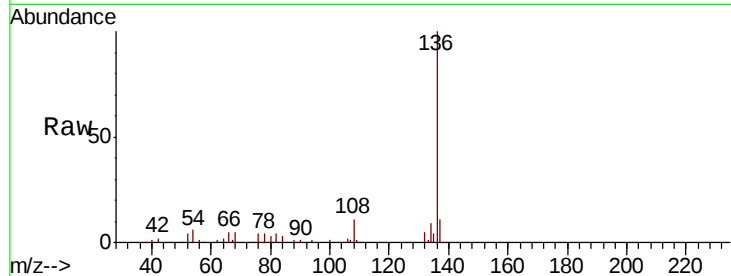
Ion Ratio Lower Upper

136 100

137 10.5 9.0 13.4

54 5.6 4.5 6.7

68 4.8 4.0 6.0

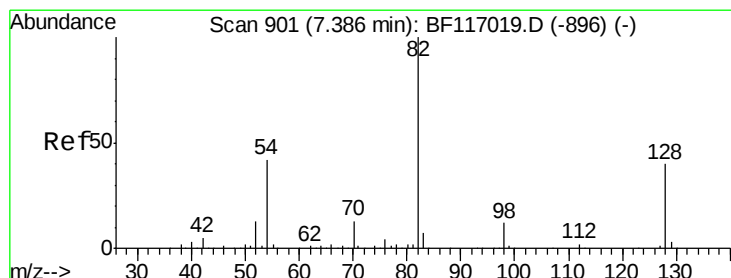
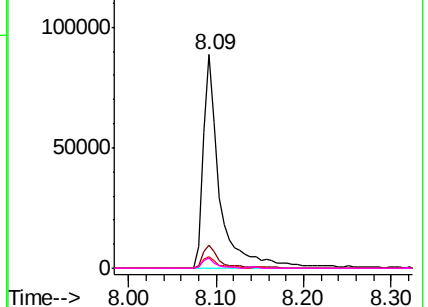
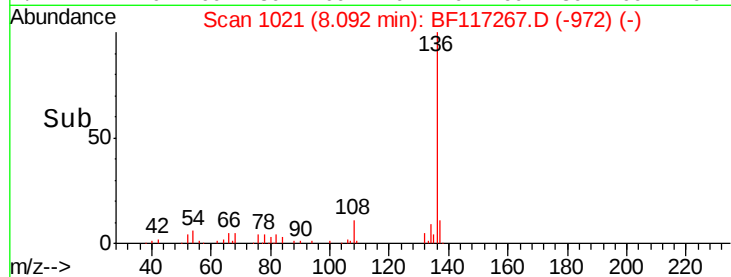


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.161 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

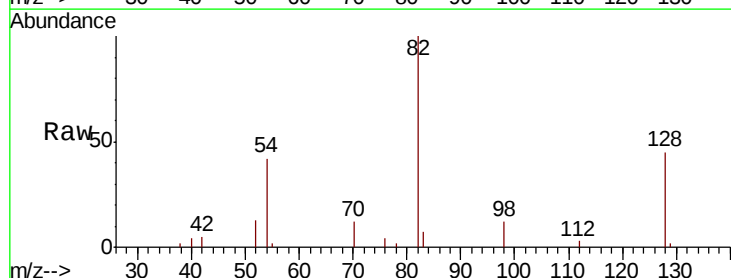
Tgt Ion: 82 Resp: 29406

Ion Ratio Lower Upper

82 100

128 45.1 32.3 48.5

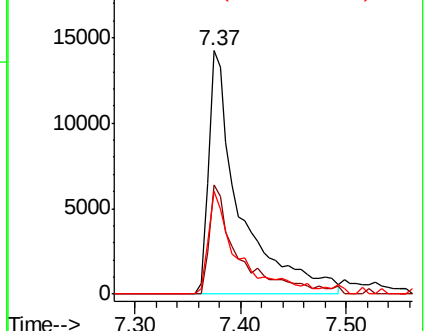
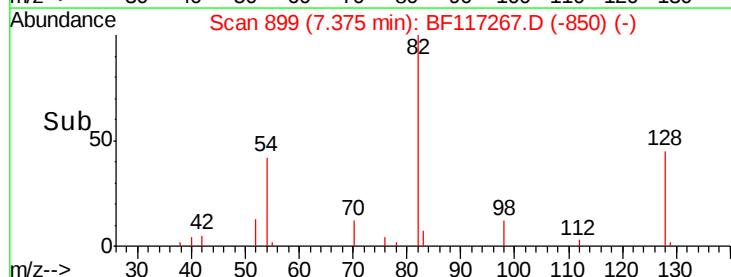
54 42.2 33.3 49.9

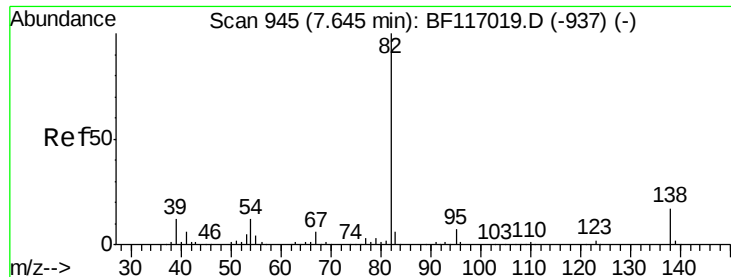


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 7.433 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.27 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampleId :

DN-2DL

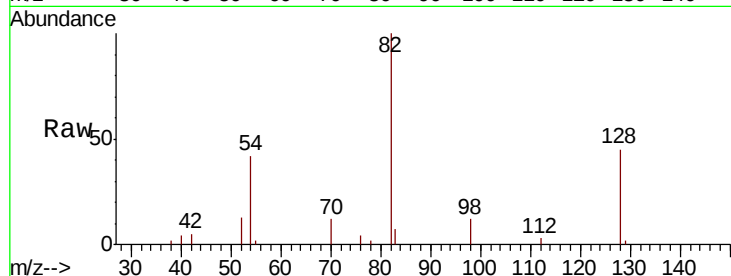
Tot Ion: 82 Resp: 29406

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

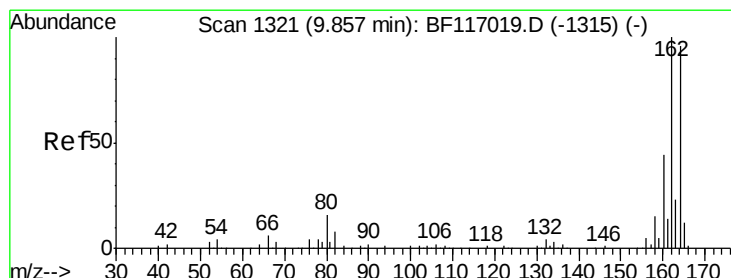
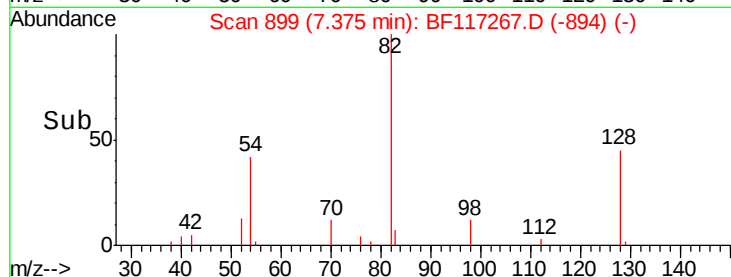
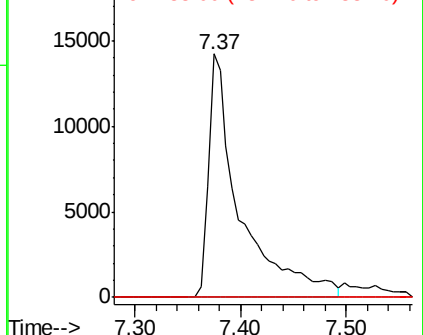
138 0.0 13.5 20.3#



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: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

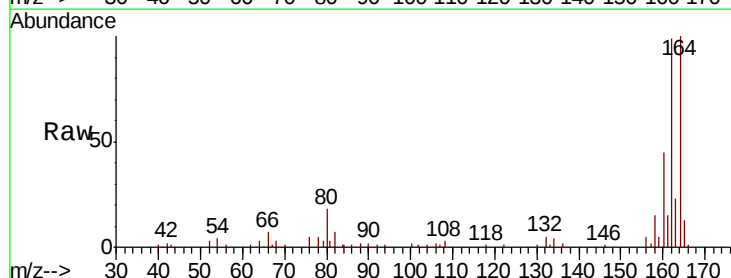
Tgt Ion: 164 Resp: 63008

Ion Ratio Lower Upper

164 100

162 99.1 83.4 125.2

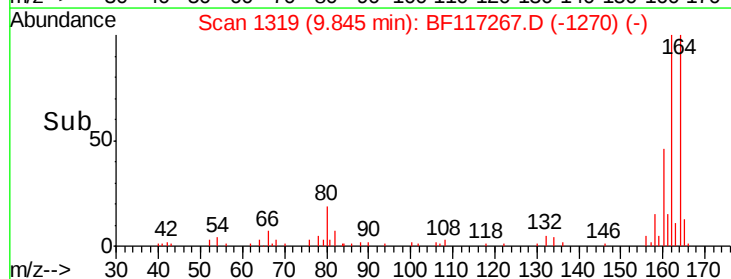
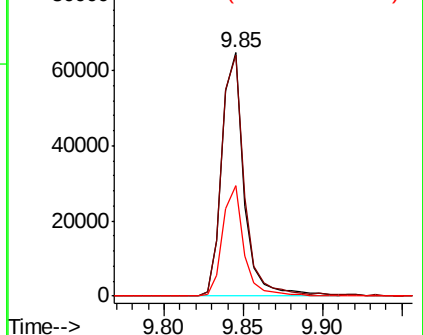
160 45.2 36.4 54.6

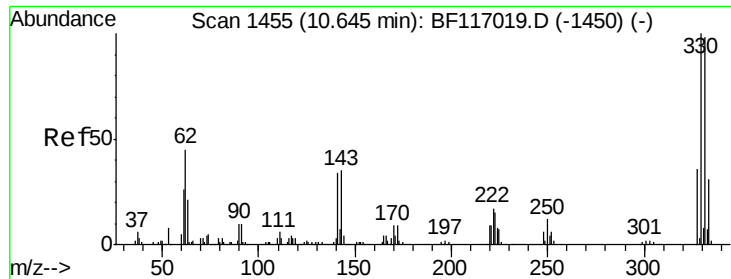


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 18.976 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampleId :

DN-2DL

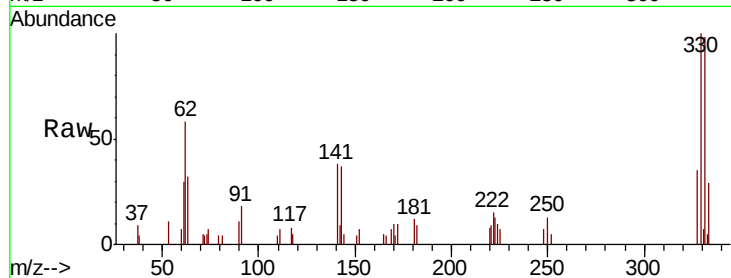
Tot Ion:330 Resp: 9993

Ion Ratio Lower Upper

330 100

332 95.9 78.0 117.0

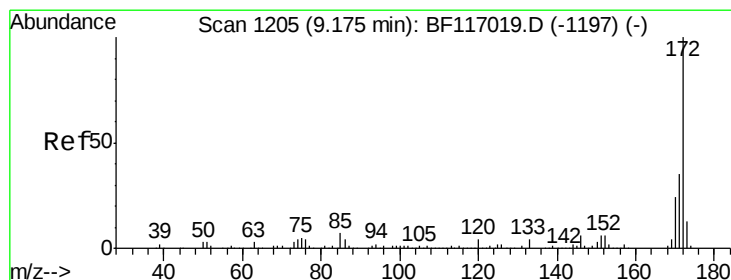
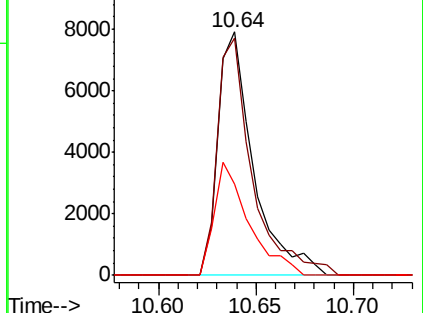
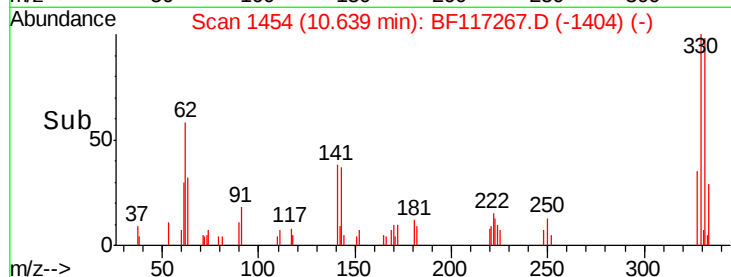
141 45.2 35.8 53.6



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: 14.894 ng

RT: 9.16 min Scan# 1203

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

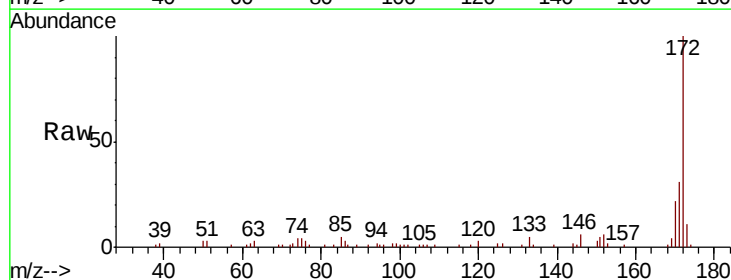
Tgt Ion:172 Resp: 60020

Ion Ratio Lower Upper

172 100

171 31.0 28.2 42.2

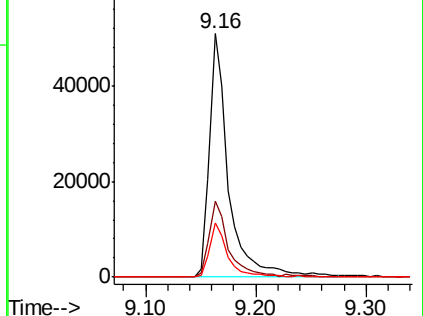
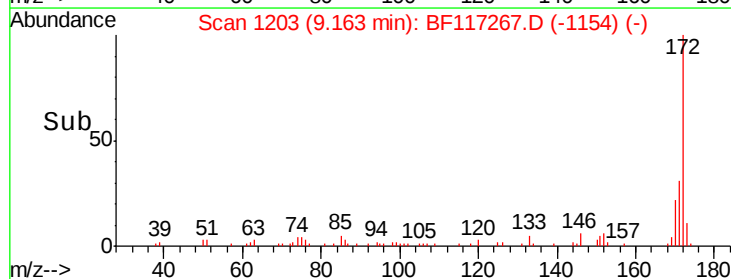
170 22.4 18.9 28.3

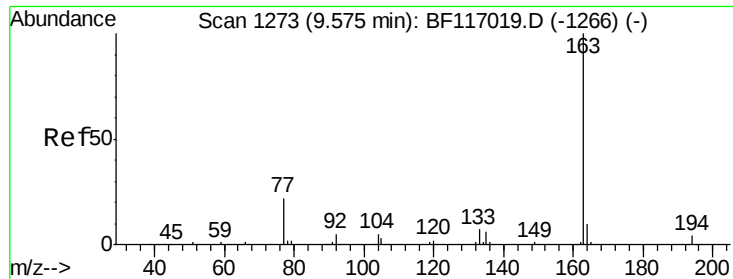


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 2.867 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

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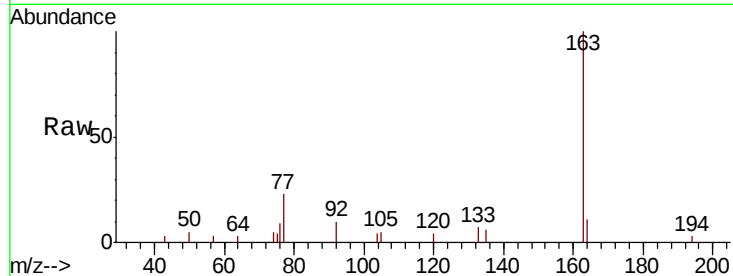
Tot Ion:163 Resp: 12792

Ion Ratio Lower Upper

163 100

194 2.9 2.9 4.3

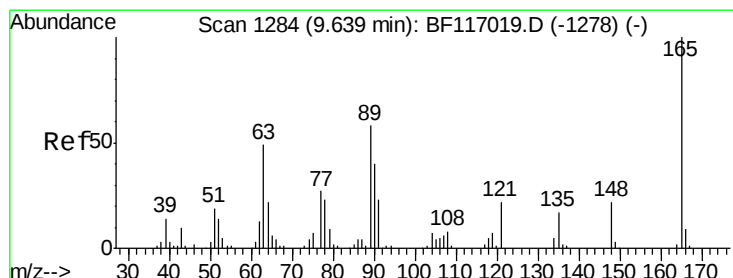
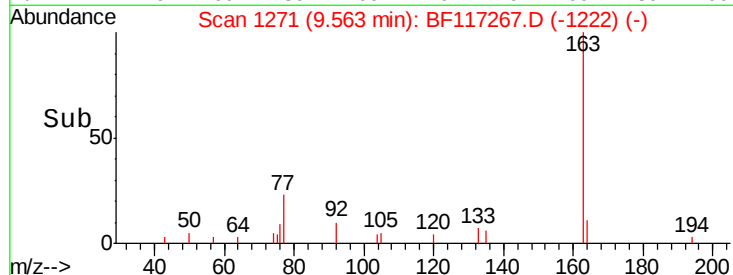
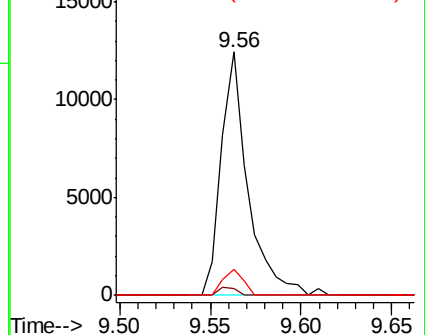
164 10.8 8.2 12.4



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



#51

2,6-Dinitrotoluene

Concen: 8.827 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.21 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

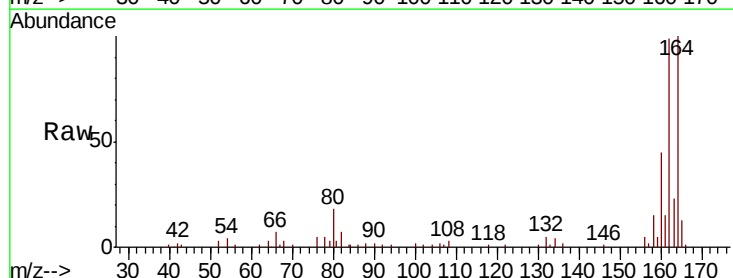
Tgt Ion:165 Resp: 8020

Ion Ratio Lower Upper

165 100

63 0.0 41.8 62.8#

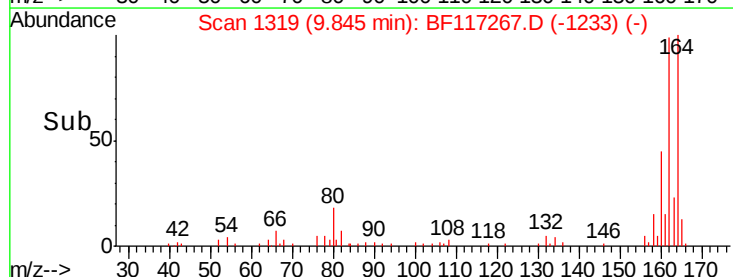
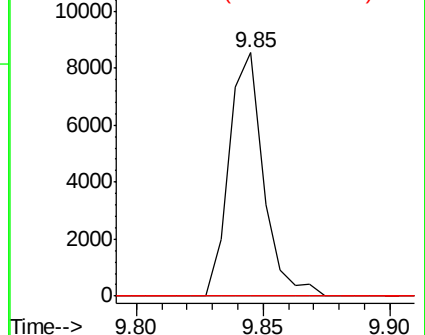
89 0.0 46.5 69.7#



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: 6.800 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.20 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampleId :

DN-2DL

Tot Ion:165 Resp: 8020

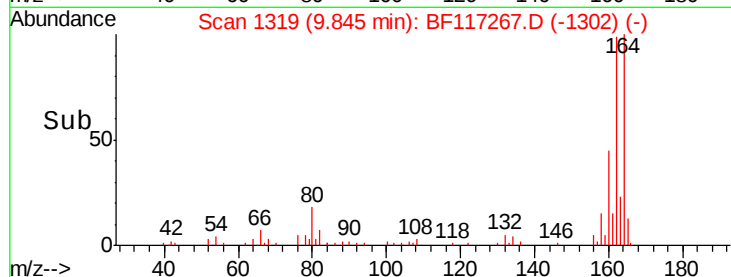
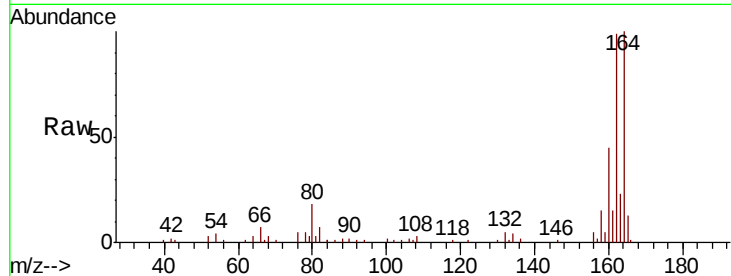
Ion Ratio Lower Upper

165 100

63 0.0 35.0 52.4#

89 0.0 66.1 99.1#

182 0.0 2.0 3.0#

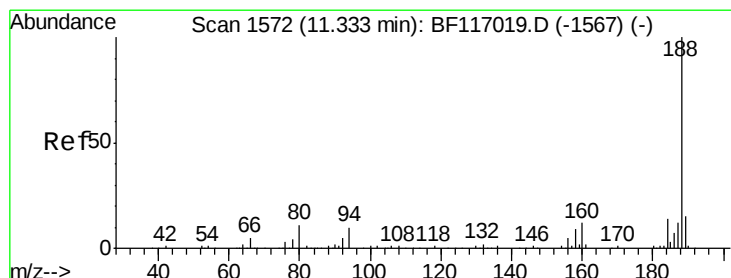
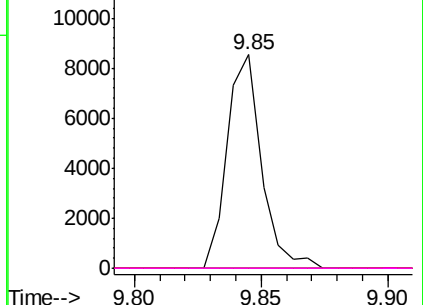


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

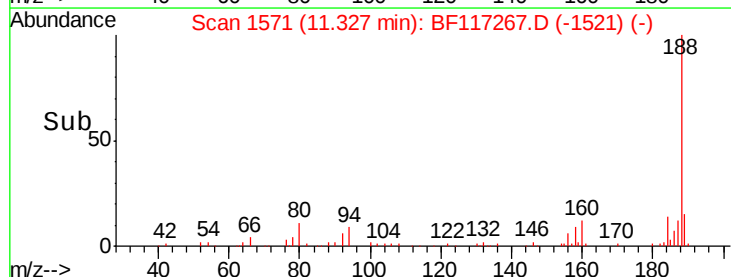
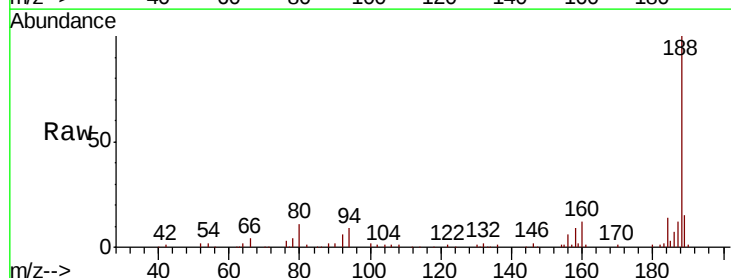
Tgt Ion:188 Resp: 105486

Ion Ratio Lower Upper

188 100

94 8.9 8.2 12.2

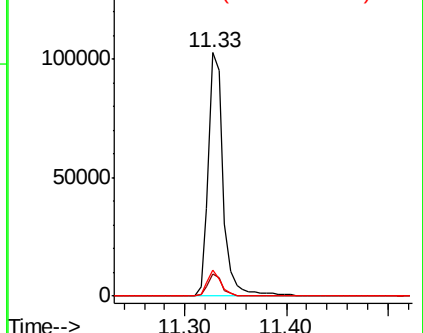
80 10.8 9.0 13.6

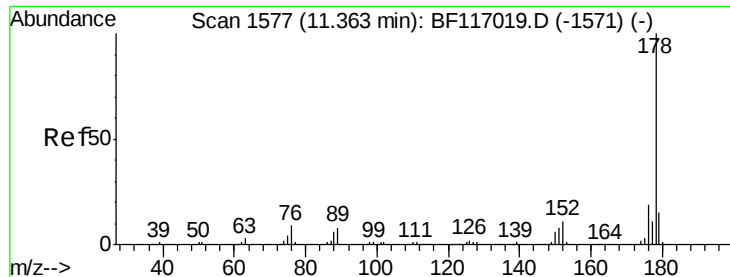


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

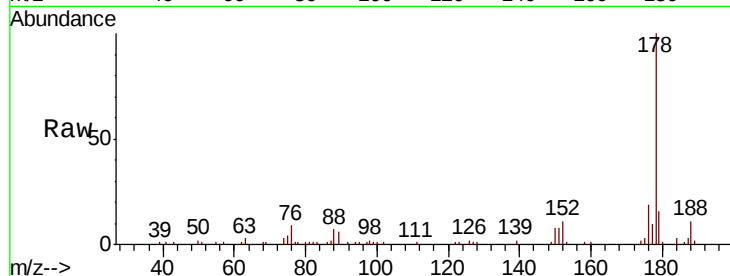




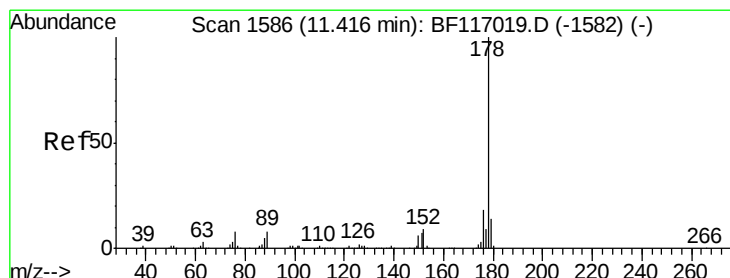
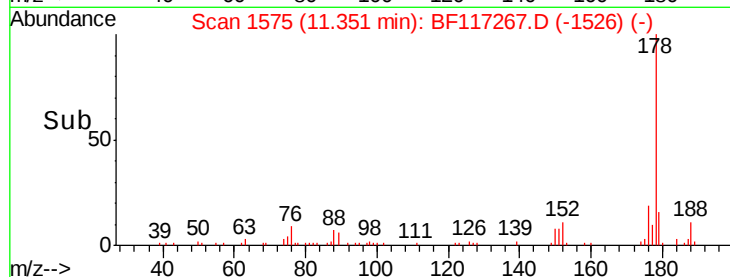
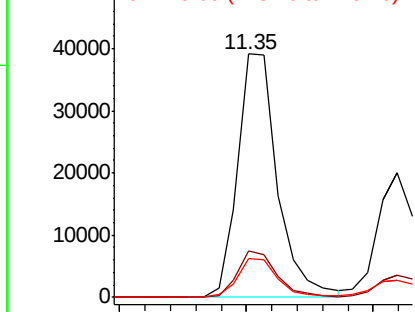
#71
Phenanthrene
Concen: 7.149 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

Instrument :
BNA_F
ClientSampleId :
DN-2DL

Tot Ion:178 Resp: 42832
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 16.0 12.4 18.6

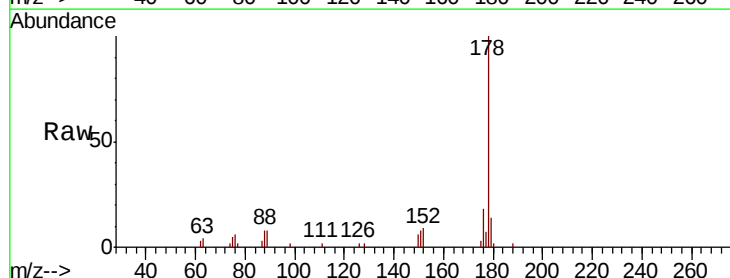


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

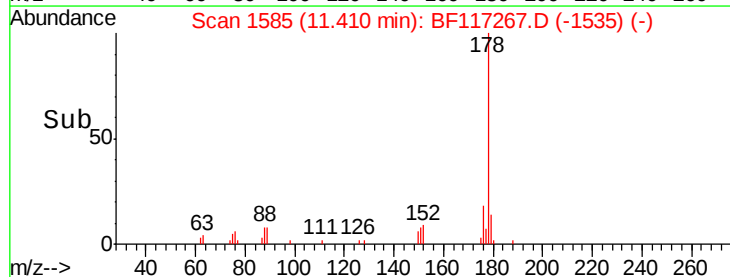
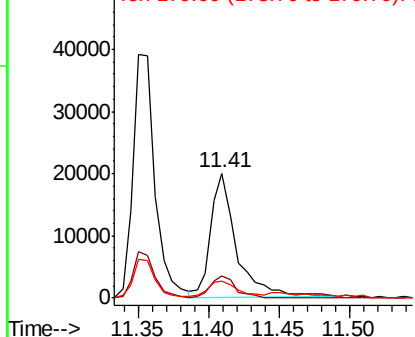


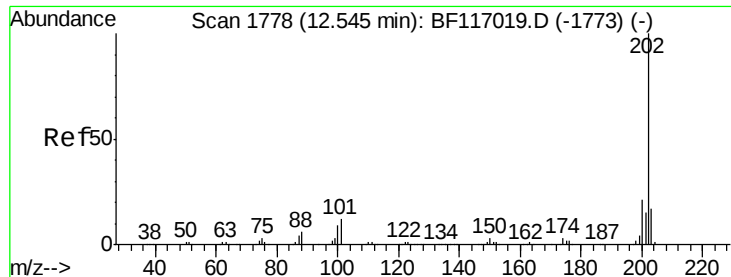
#72
Anthracene
Concen: 4.125 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

Tgt Ion:178 Resp: 25231
Ion Ratio Lower Upper
178 100
176 18.0 14.6 21.8
179 14.1 11.6 17.4



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: 21.995 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.00 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampleId :

DN-2DL

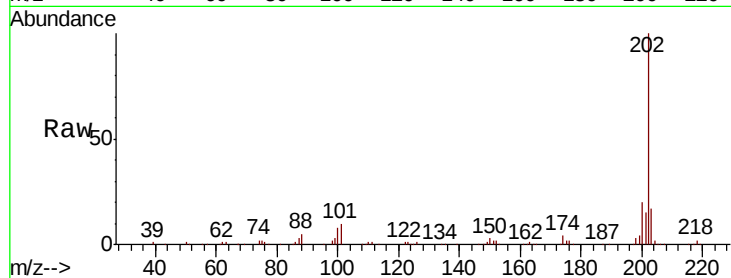
Tot Ion:202 Resp: 135406

Ion Ratio Lower Upper

202 100

101 10.0 0.0 32.3

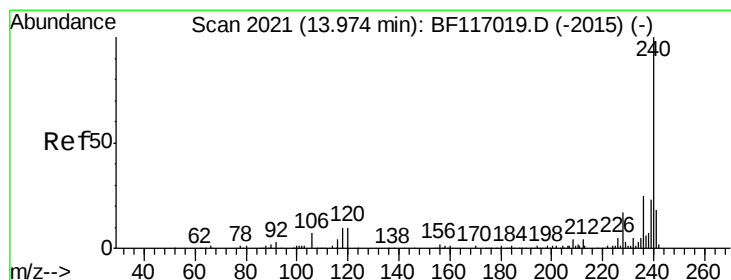
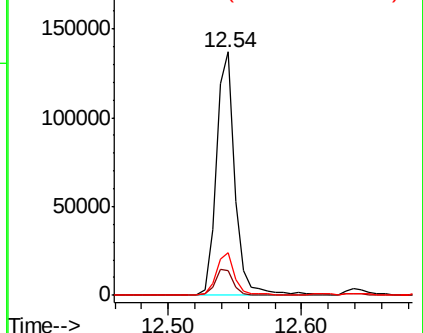
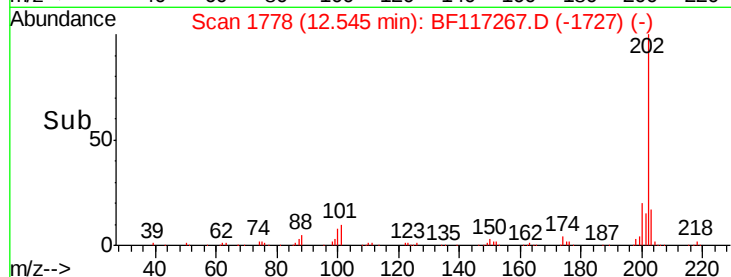
203 17.3 0.0 37.1



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: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

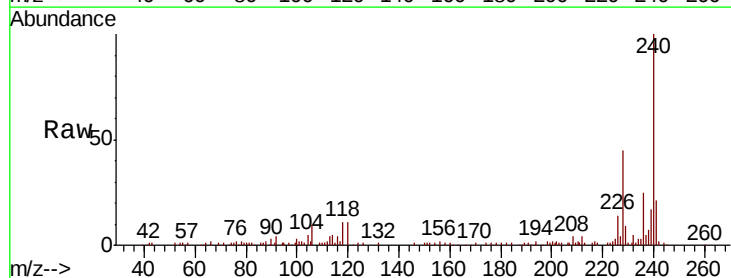
Tgt Ion:240 Resp: 75221

Ion Ratio Lower Upper

240 100

120 11.3 8.3 12.5

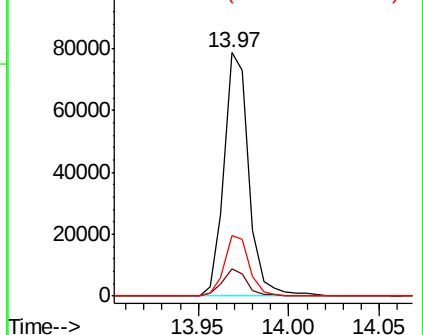
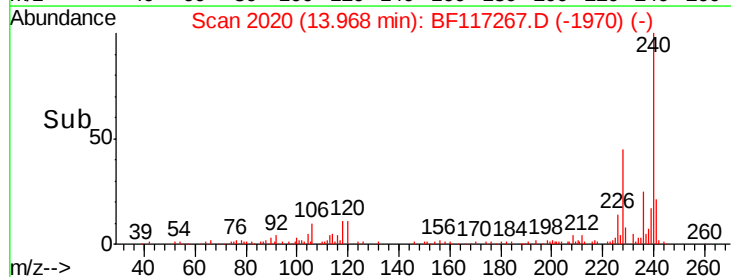
236 24.8 20.3 30.5

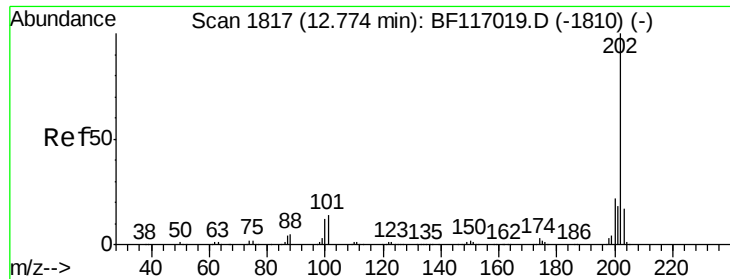


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

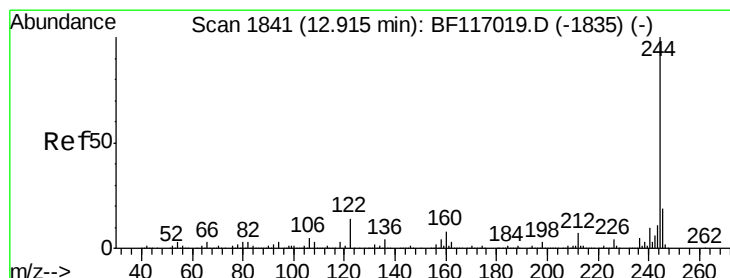
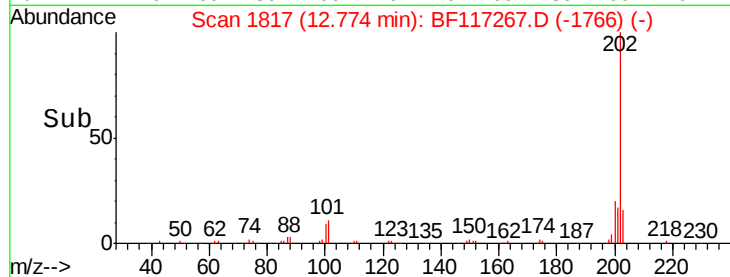
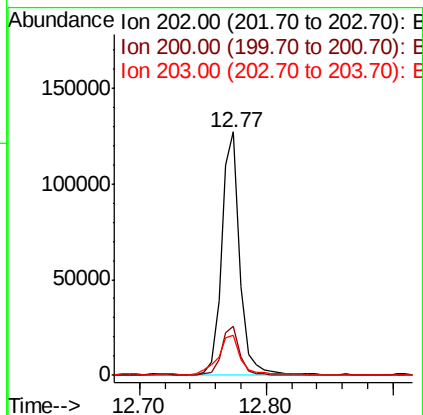
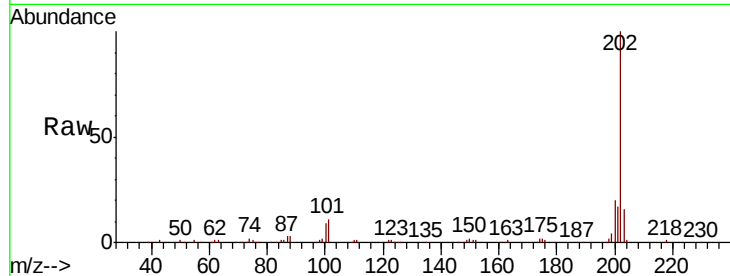




#78
Pvrene
Concen: 19.746 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.00 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

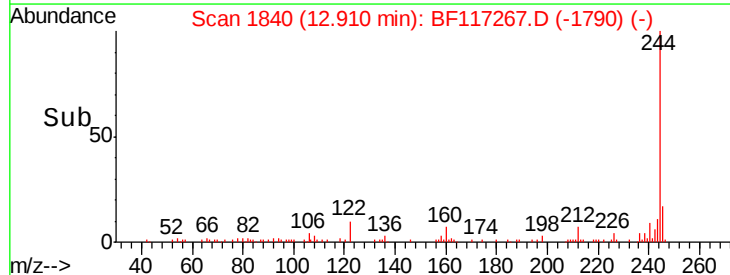
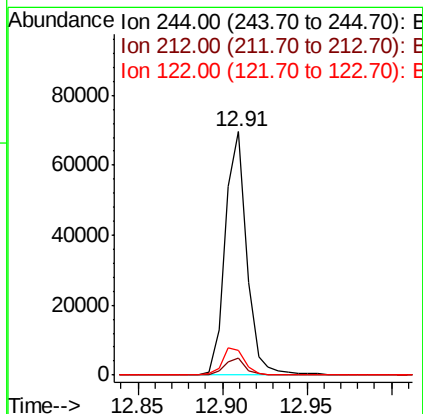
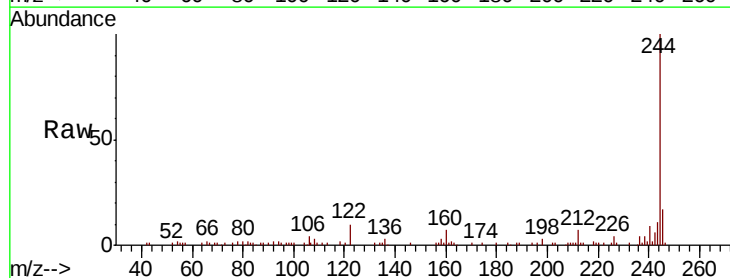
Instrument :
BNA_F
ClientSampleId :
DN-2DL

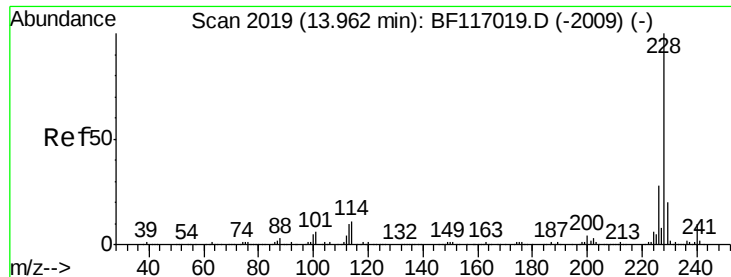
Tot Ion:202 Resp: 124628
Ion Ratio Lower Upper
202 100
200 20.0 17.2 25.8
203 16.5 14.0 21.0



#79
Terphenyl-d14
Concen: 15.269 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.01 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

Tgt Ion:244 Resp: 61447
Ion Ratio Lower Upper
244 100
212 7.0 5.8 8.8
122 10.3 11.3 16.9#

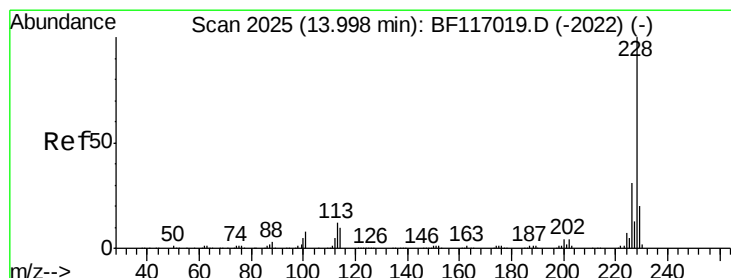
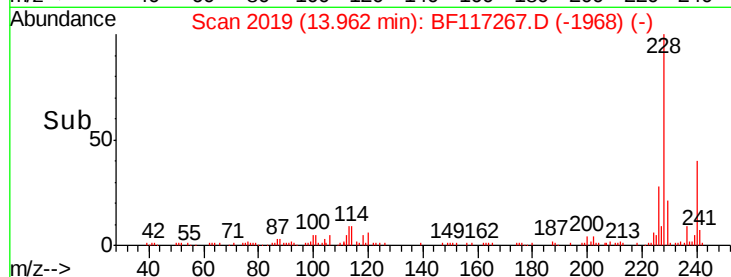
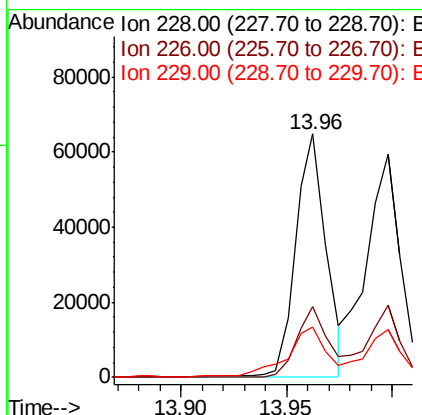
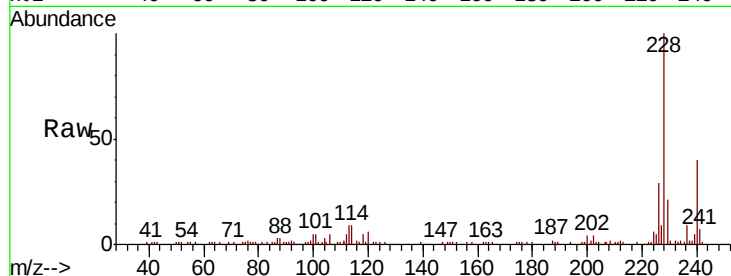




#81
Benzo(a)anthracene
Concen: 12.940 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.00 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

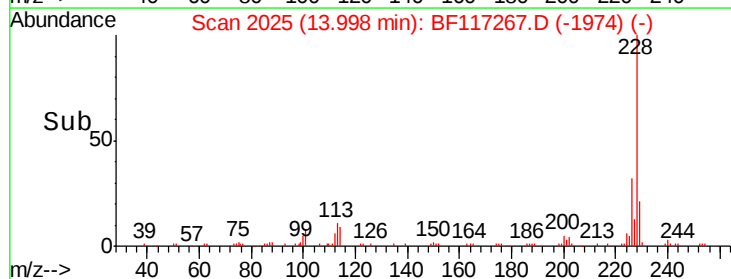
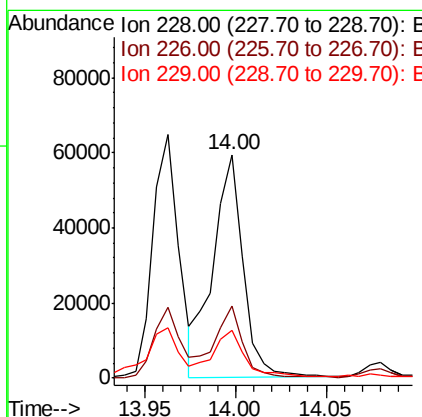
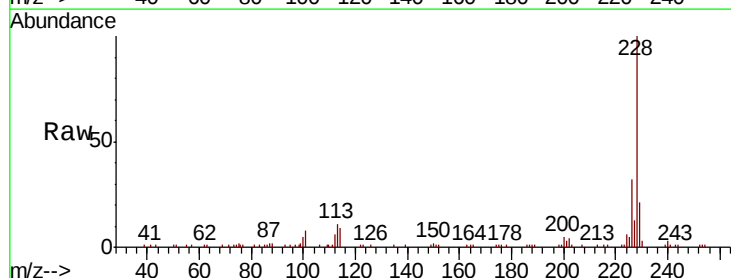
Instrument :
BNA_F
ClientSampleId :
DN-2DL

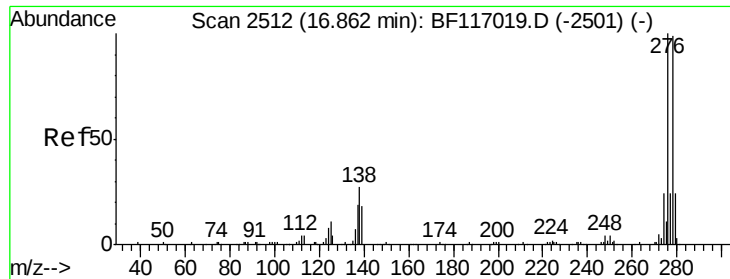
Tot Ion:228 Resp: 65029
Ion Ratio Lower Upper
228 100
226 28.9 22.3 33.5
229 20.7 15.9 23.9



#83
Chrysene
Concen: 14.002 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

Tgt Ion:228 Resp: 68630
Ion Ratio Lower Upper
228 100
226 32.4 24.8 37.2
229 21.4 15.8 23.8

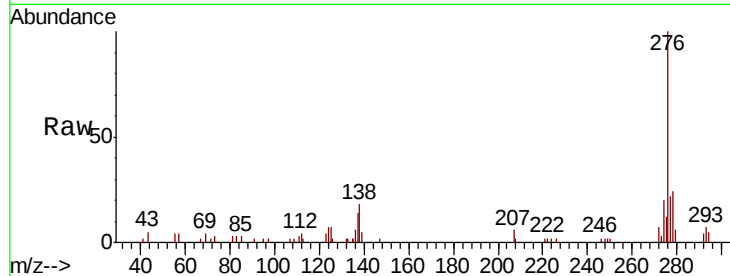




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 10.382 ng
 RT: 16.89 min Scan# 2516
 Delta R.T. 0.02 min
 Lab File: BF117267.D
 Acq: 30 Sep 2019 18:16

Instrument :
 BNA_F
 ClientSampleId :
 DN-2DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.0	20.7	31.1#
277	24.1	19.8	29.8

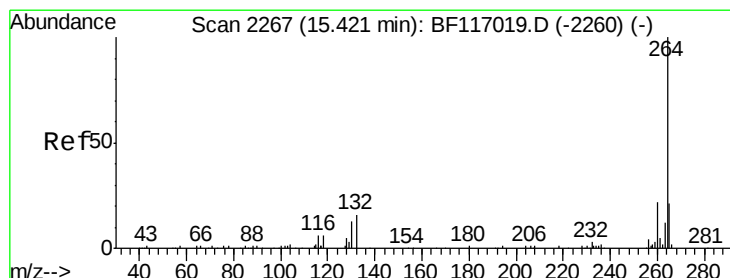
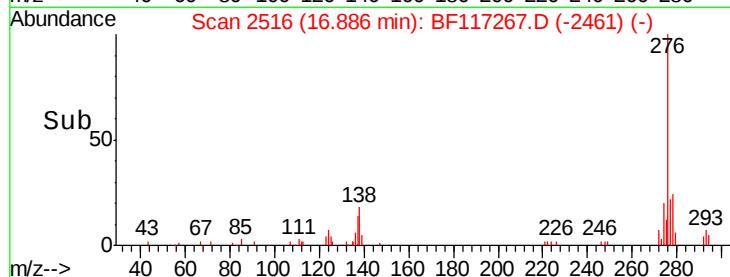
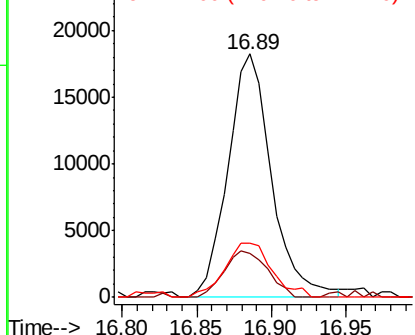


Abundance

Ion 276.00 (275.70 to 276.70): E

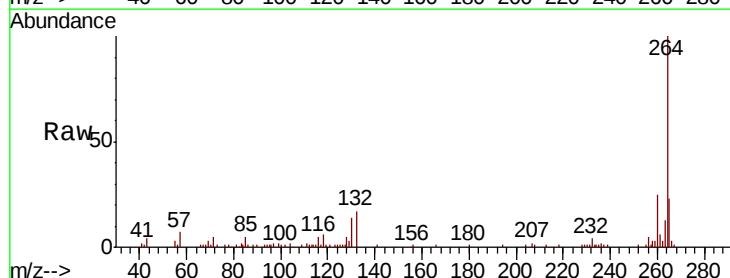
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.43 min Scan# 2269
 Delta R.T. 0.01 min
 Lab File: BF117267.D
 Acq: 30 Sep 2019 18:16

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	17.6	26.4
265	23.4	16.6	24.8

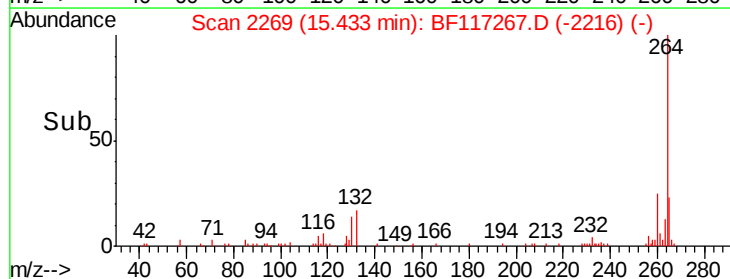
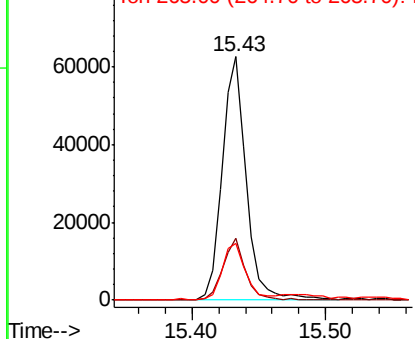


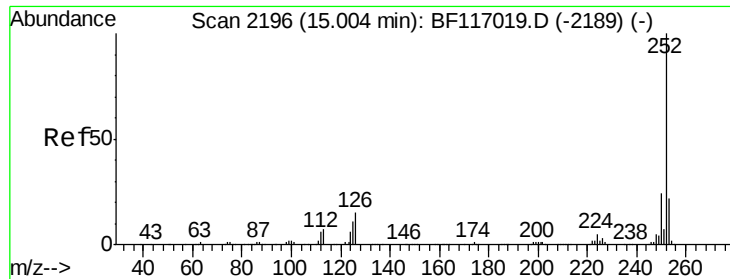
Abundance

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

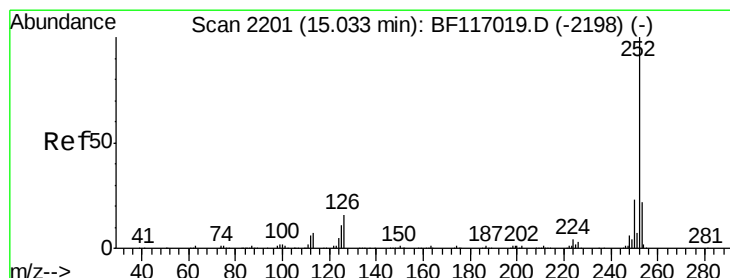
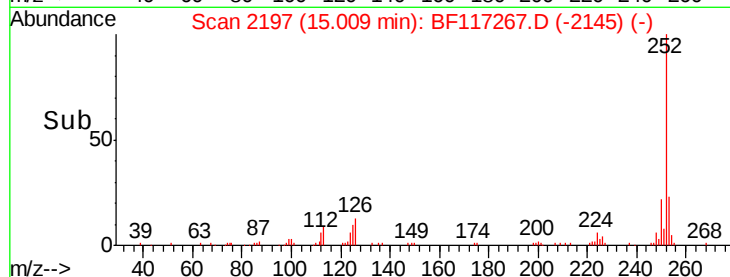
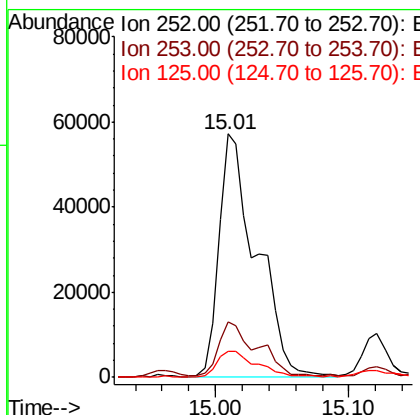
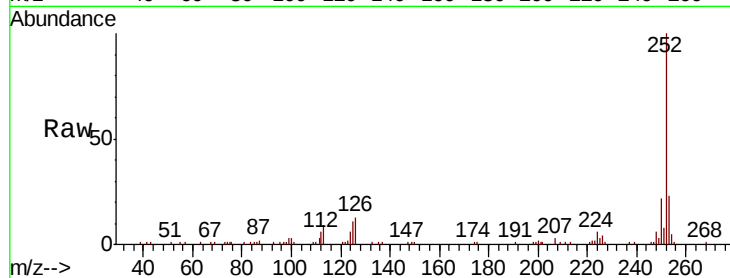




#88
Benzo(b)fluoranthene
Concen: 23.364 ng
RT: 15.01 min Scan# 2197
Delta R.T. 0.01 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

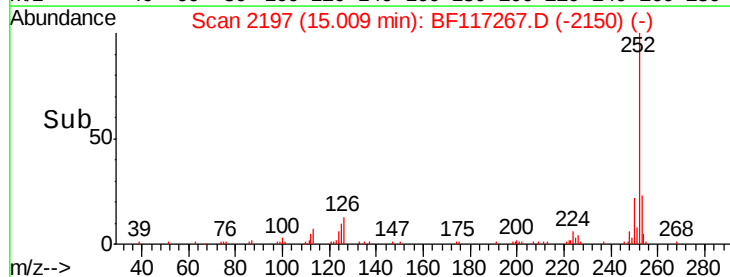
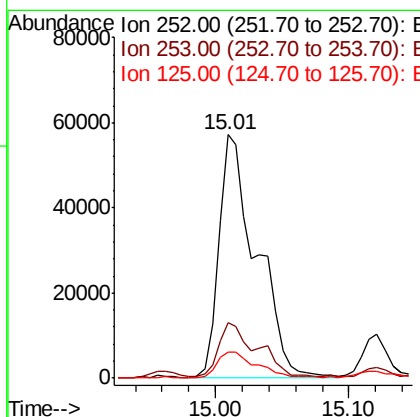
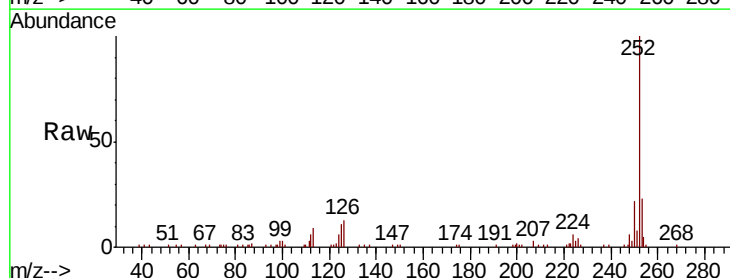
Instrument :
BNA_F
ClientSampleId :
DN-2DL

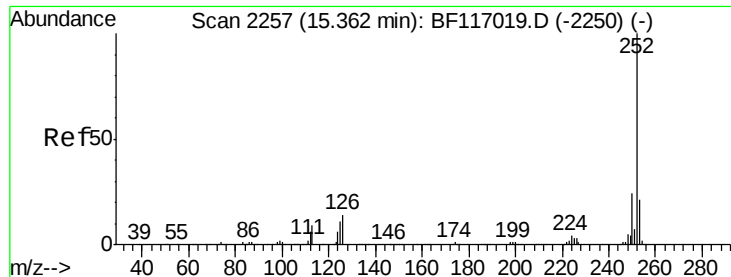
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.6	26.4
125	10.9	8.6	12.8



#89
Benzo(k)fluoranthene
Concen: 24.665 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.02 min
Lab File: BF117267.D
Acq: 30 Sep 2019 18:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.2
125	10.9	8.8	13.2





#90

Benzo(a)pyrene

Concen: 13.571 ng

RT: 15.37 min Scan# 2258

Delta R.T. 0.01 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampleId :

DN-2DL

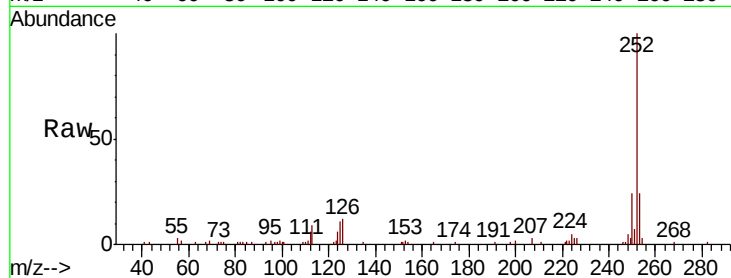
Tot Ion:252 Resp: 57329

Ion Ratio Lower Upper

252 100

253 23.5 16.6 25.0

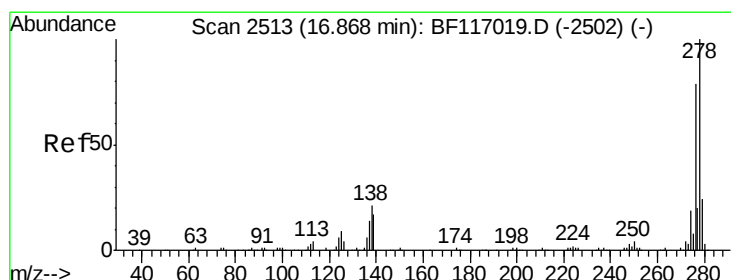
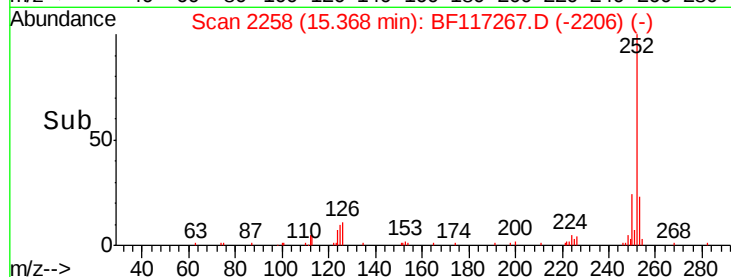
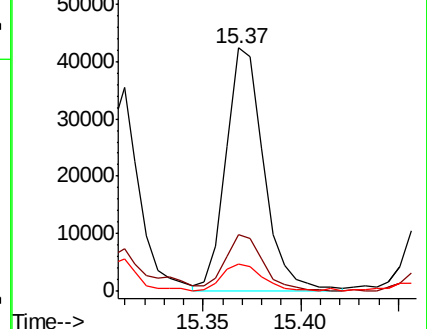
125 11.0 8.9 13.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 2.328 ng

RT: 17.05 min Scan# 2544

Delta R.T. 0.18 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

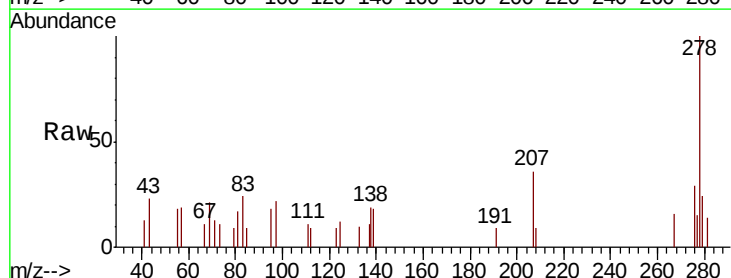
Tgt Ion:278 Resp: 7834

Ion Ratio Lower Upper

278 100

139 17.7 13.5 20.3

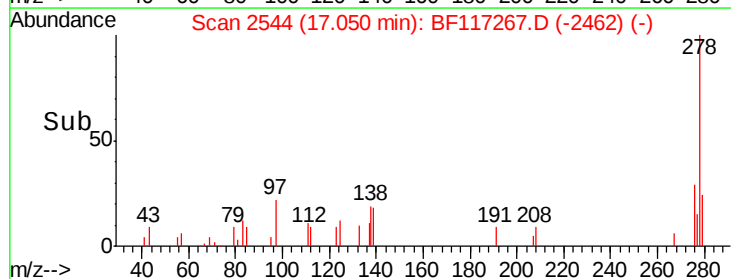
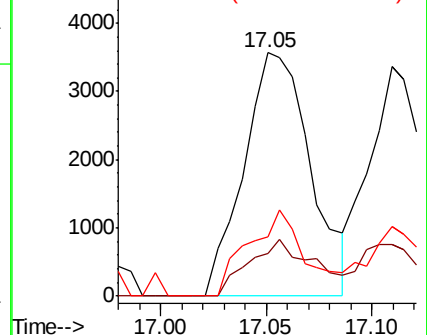
279 24.3 18.8 28.2

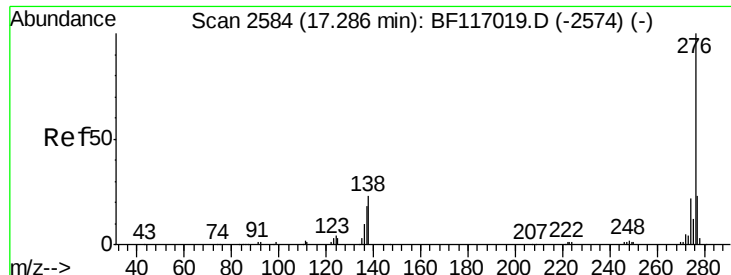


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 9.525 ng

RT: 17.32 min Scan# 2589

Delta R.T. 0.03 min

Lab File: BF117267.D

Acq: 30 Sep 2019 18:16

Instrument :

BNA_F

ClientSampleId :

DN-2DL

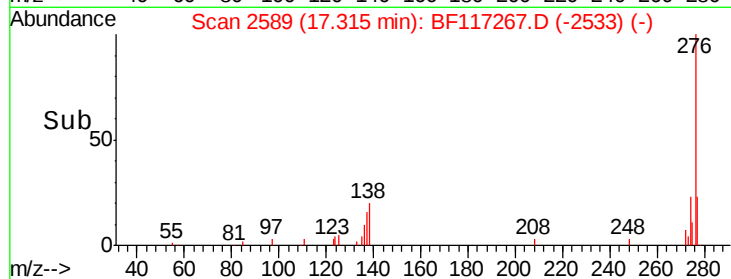
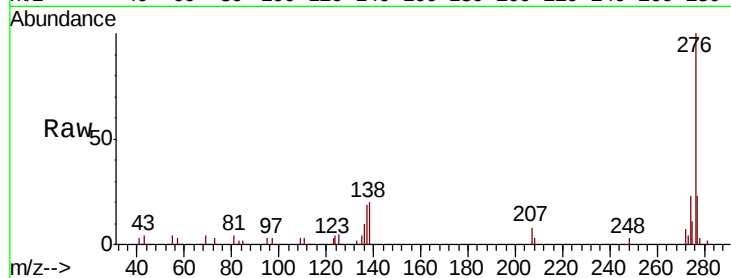
Tot Ion: 276 Resp: 31943

Ion Ratio Lower Upper

276 100

277 23.3 18.6 27.8

138 19.7 18.0 27.0



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

