

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022720\
 Data File : BF119105.D
 Acq On : 27 Feb 2020 11:29
 Operator : CG/JU
 Sample : L1675-01RE
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 28 02:52:56 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 26 16:03:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	164736	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	619664	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	318896	20.00	ng	-0.01
64) Phenanthrene-d10	11.26	188	499016	20.00	ng	0.00
76) Chrysene-d12	13.90	240	355190	20.00	ng	0.00
87) Perylene-d12	15.33	264	406904	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	1019477	103.42	ng	0.00
7) Phenol-d6	6.39	99	1228416	102.47	ng	-0.01
23) Nitrobenzene-d5	7.31	82	810965	69.10	ng	-0.01
42) 2,4,6-Tribromophenol	10.57	330	371041	88.94	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	1513759	69.93	ng	0.00
79) Terphenyl-d14	12.84	244	1317491	63.86	ng	0.00

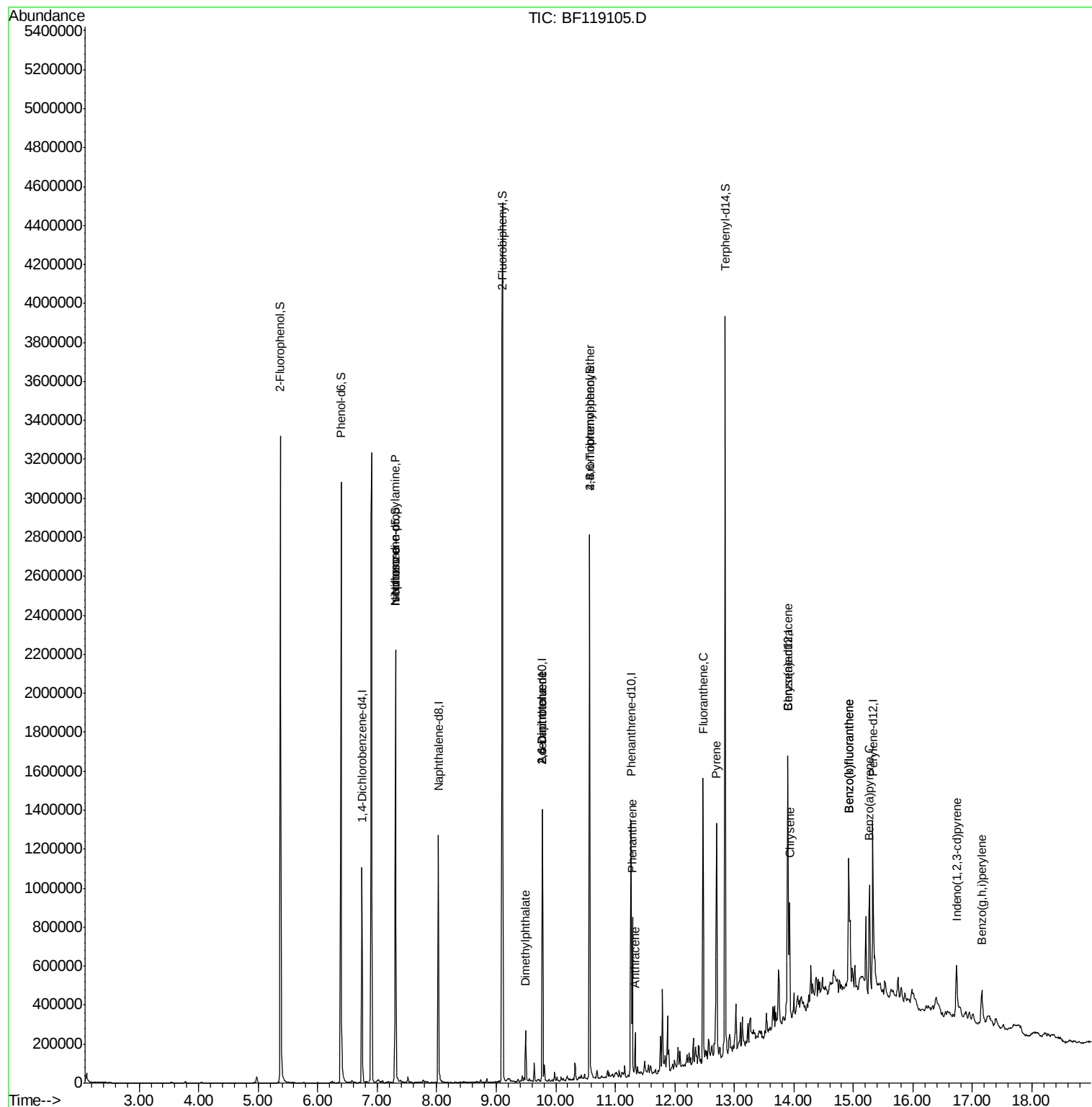
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.31	70	114156	16.341	ng	# 74
25) Isophorone	7.31	82	795869	39.048	ng	# 63
50) Dimethylphthalate	9.49	163	106396	4.363	ng	99
51) 2,6-Dinitrotoluene	9.77	165	41978	7.748	ng	# 33
57) 2,4-Dinitrotoluene	9.77	165	41978	5.978	ng	# 21
67) 4-Bromophenyl-phenylether	10.57	248	24588	3.770	ng	# 1
71) Phenanthrene	11.29	178	320924	11.793	ng	98
72) Anthracene	11.33	178	85965	3.161	ng	97
75) Fluoranthene	12.47	202	583932	20.215	ng	99
78) Pyrene	12.70	202	534573	18.743	ng	97
81) Benzo(a)anthracene	13.89	228	283471	11.713	ng	98
83) Chrysene	13.93	228	260001	10.782	ng	96
86) Indeno(1,2,3-cd)pyrene	16.73	276	156765	6.714	ng	95
88) Benzo(b)fluoranthene	14.92	252	489705	18.258	ng	99
89) Benzo(k)fluoranthene	14.92	252	489705	19.702	ng	98
90) Benzo(a)pyrene	15.27	252	272088	11.240	ng	99
92) Benzo(a,h,i)perylene	17.16	276	149220	7.091	ng	99

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

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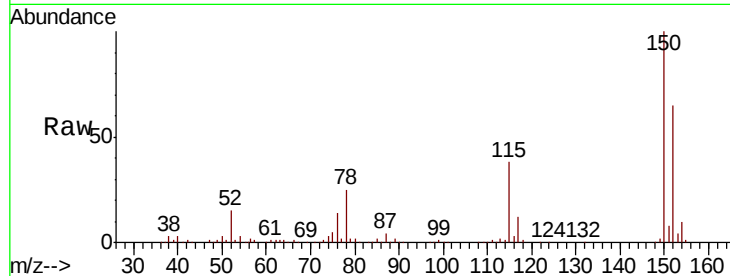


#1

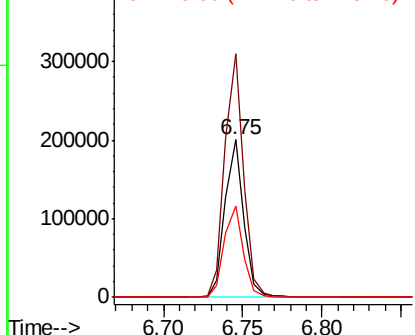
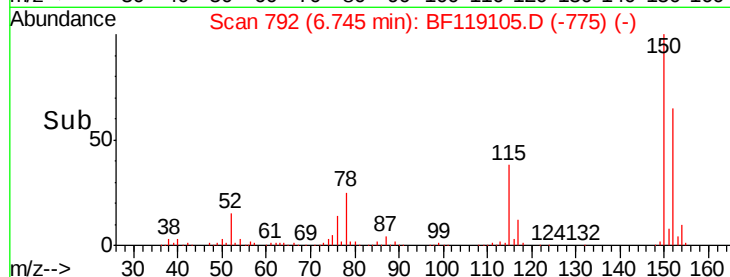
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.75 min Scan# 792
 Delta R.T. -0.00 min
 Lab File: BF119105.D
 Acq: 27 Feb 2020 11:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 164736
 Ion Ratio Lower Upper
 152 100
 150 154.4 123.0 184.6
 115 58.0 49.5 74.3



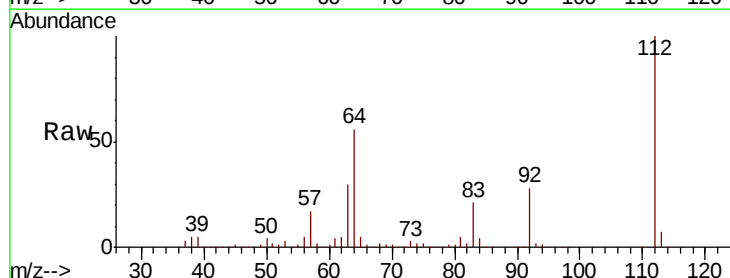
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



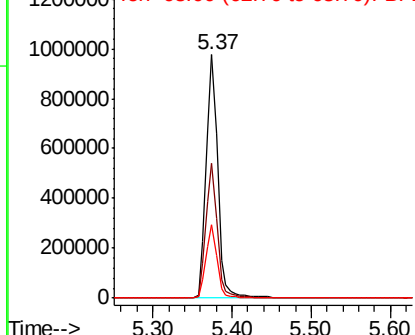
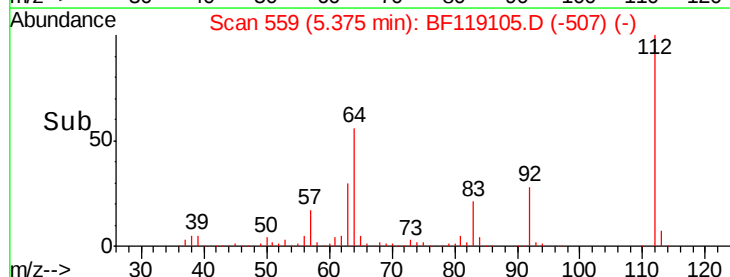
#5

2-Fluorophenol
 Concen: 103.422 ng
 RT: 5.37 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: BF119105.D
 Acq: 27 Feb 2020 11:29

Tgt Ion:112 Resp: 1019477
 Ion Ratio Lower Upper
 112 100
 64 55.6 45.0 67.4
 63 30.0 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: 102.466 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampled :

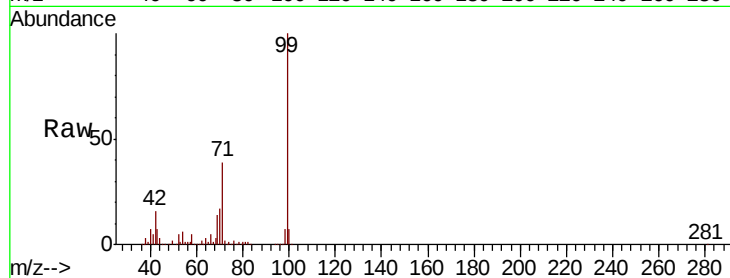
Tot Ion: 99 Resp: 1228416

Ion Ratio Lower Upper

99 100

42 15.6 12.6 18.8

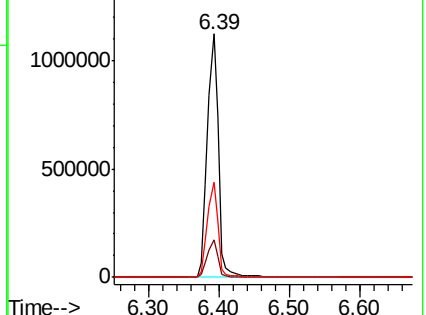
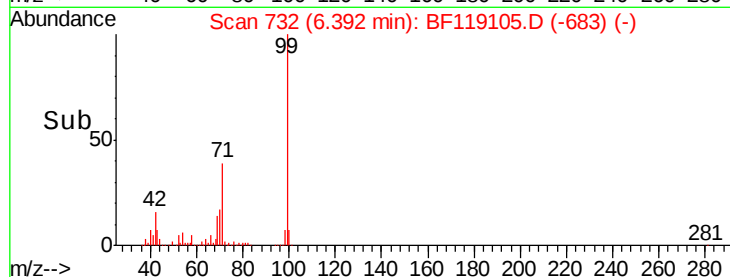
71 39.1 31.0 46.4



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: 16.341 ng

RT: 7.31 min Scan# 888

Delta R.T. 0.14 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Tgt Ion: 70 Resp: 114156

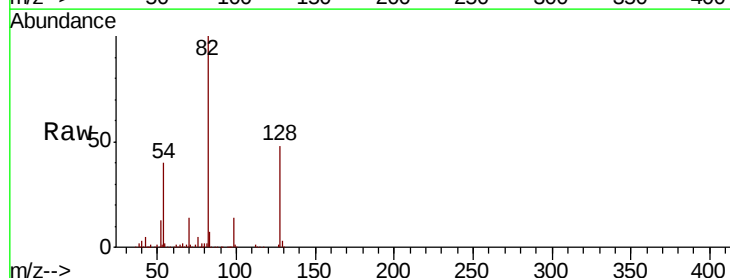
Ion Ratio Lower Upper

70 100

42 35.7 38.0 57.0#

101 0.0 8.2 12.4#

130 2.0 18.2 27.4#

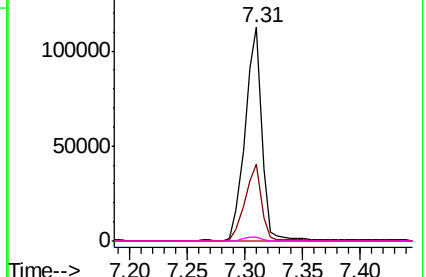
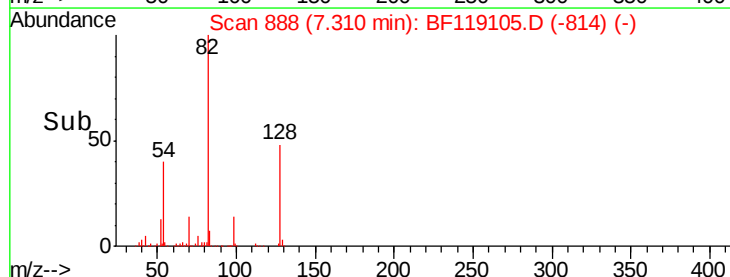


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 619664

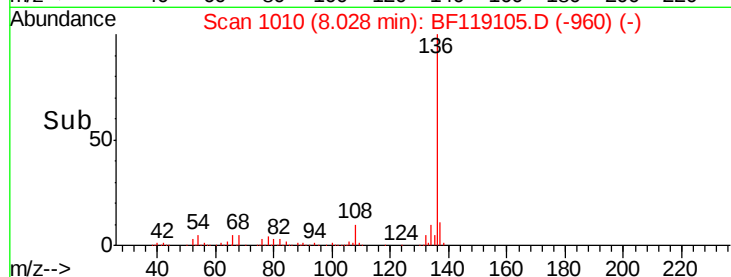
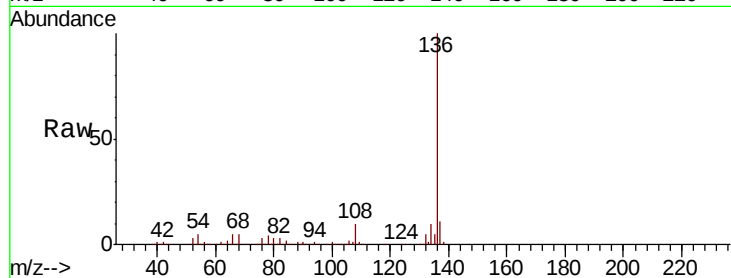
Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

54 4.7 3.8 5.6

68 5.0 3.9 5.9

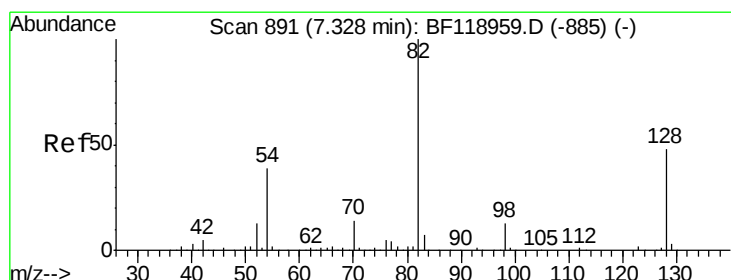
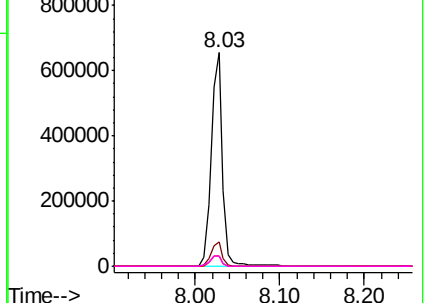


Abundance Ion 136.00 (135.70 to 136.70): E

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: 69.100 ng

RT: 7.31 min Scan# 888

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

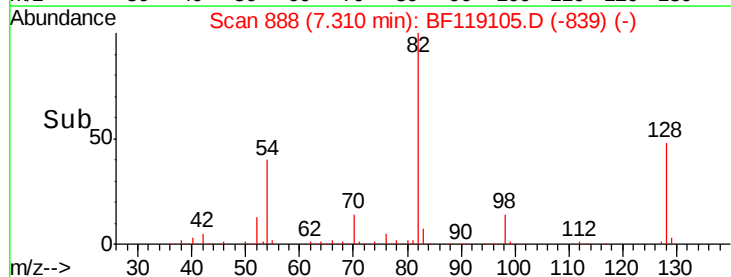
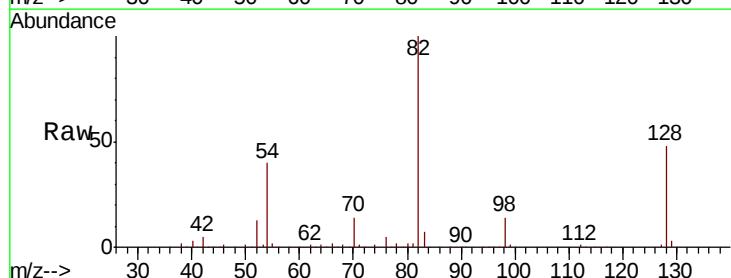
Tgt Ion: 82 Resp: 810965

Ion Ratio Lower Upper

82 100

128 47.9 37.9 56.9

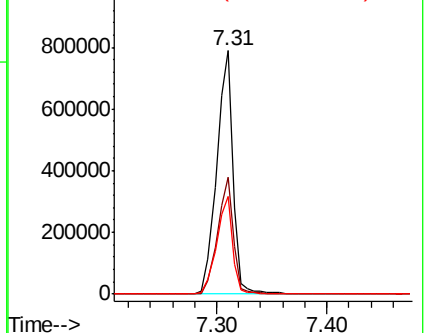
54 39.9 33.4 50.2



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: 39.048 ng

RT: 7.31 min Scan# 888

Delta R.T. -0.27 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

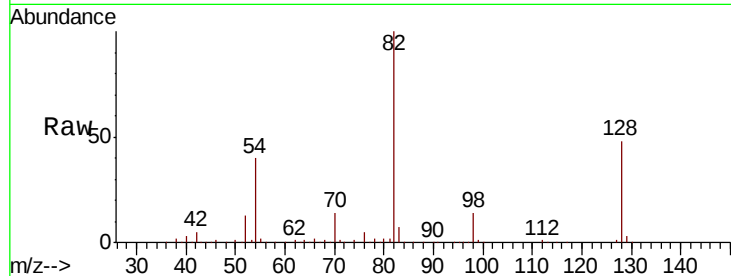
Tot Ion: 82 Resp: 795869

Ion Ratio Lower Upper

82 100

95 0.0 6.4 9.6#

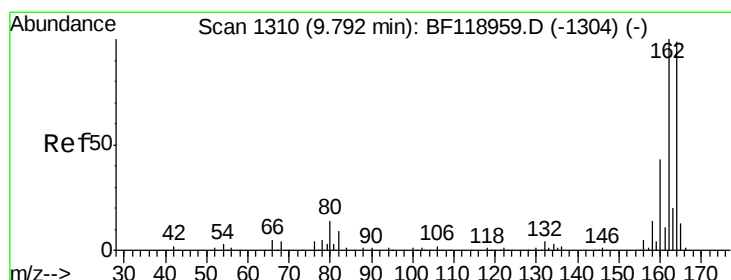
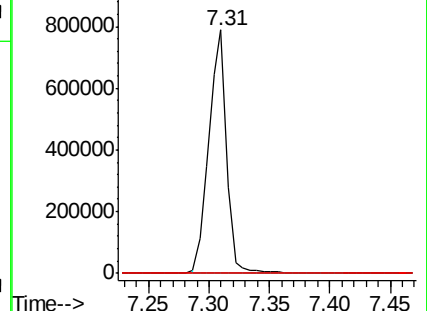
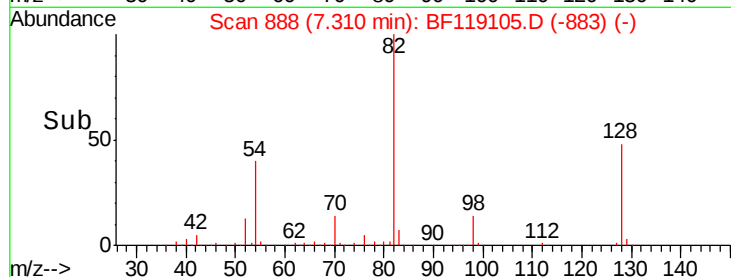
138 0.0 15.7 23.5#



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: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

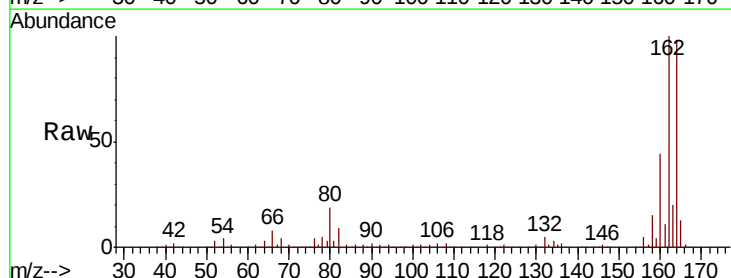
Tgt Ion: 164 Resp: 318896

Ion Ratio Lower Upper

164 100

162 102.1 81.8 122.8

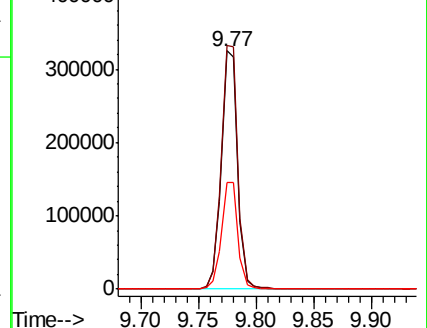
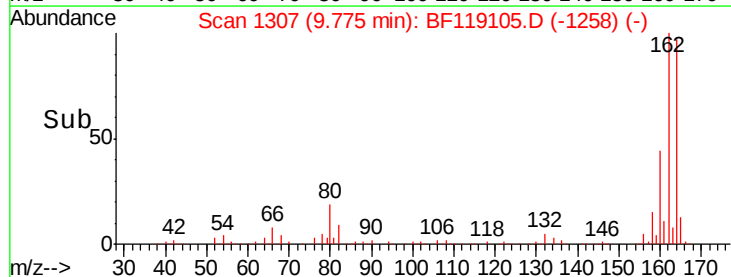
160 44.8 36.0 54.0



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

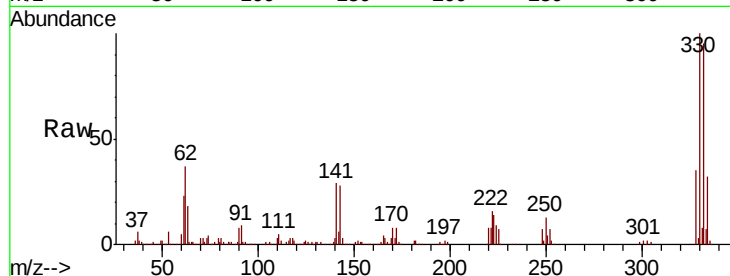




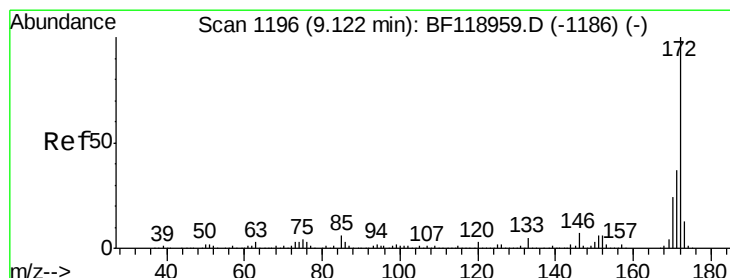
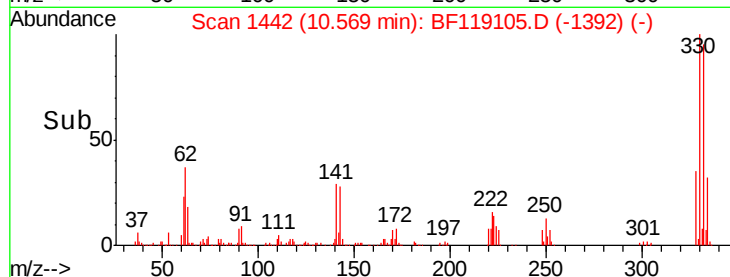
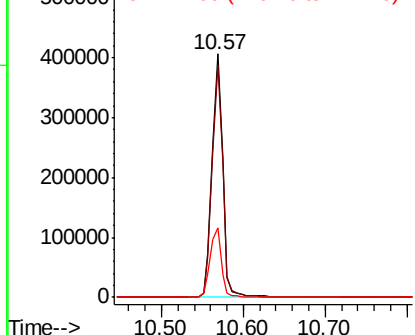
#42
 2,4,6-Tribromophenol
 Concen: 88.942 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: BF119105.D
 Acq: 27 Feb 2020 11:29

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 371041
 Ion Ratio Lower Upper
 330 100
 332 95.3 76.0 114.0
 141 29.5 22.9 34.3

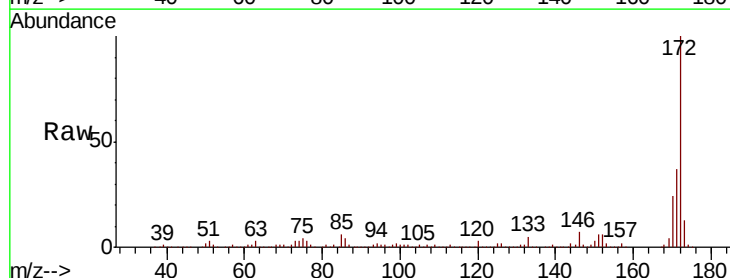


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

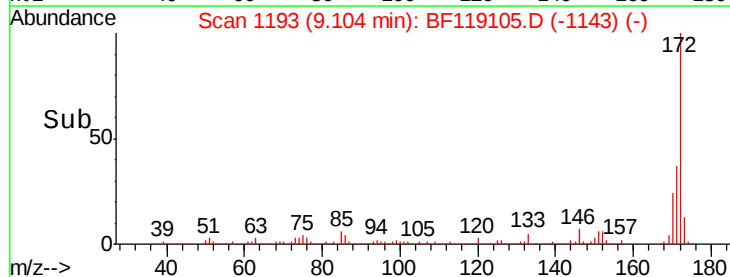
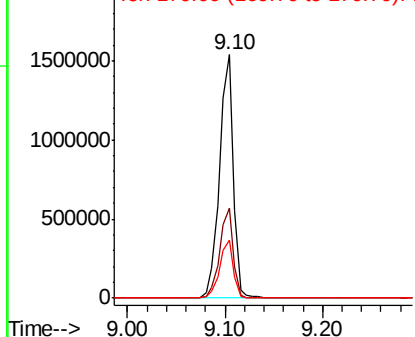


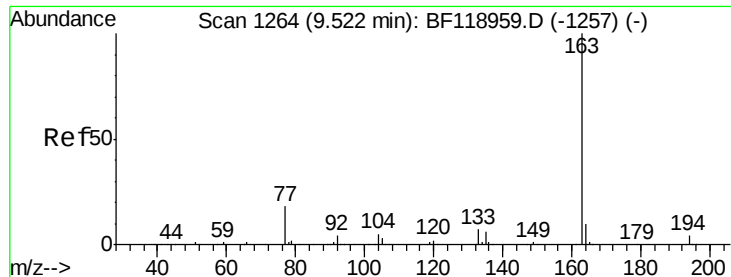
#45
 2-Fluorobiphenyl
 Concen: 69.930 ng
 RT: 9.10 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF119105.D
 Acq: 27 Feb 2020 11:29

Tgt Ion:172 Resp: 1513759
 Ion Ratio Lower Upper
 172 100
 171 37.1 30.6 45.8
 170 24.1 20.2 30.2



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: 4.363 ng

RT: 9.49 min Scan# 1259

Delta R.T. -0.02 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

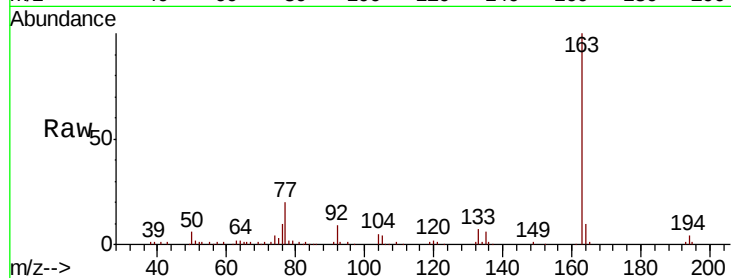
Tot Ion:163 Resp: 106396

Ion Ratio Lower Upper

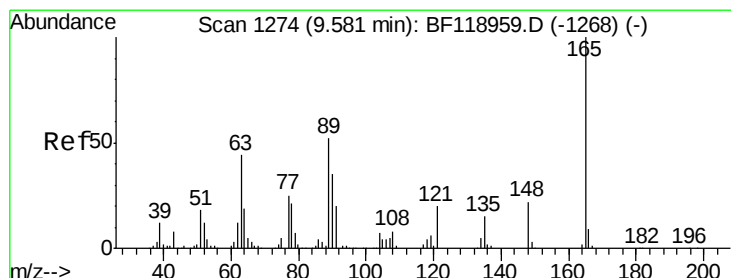
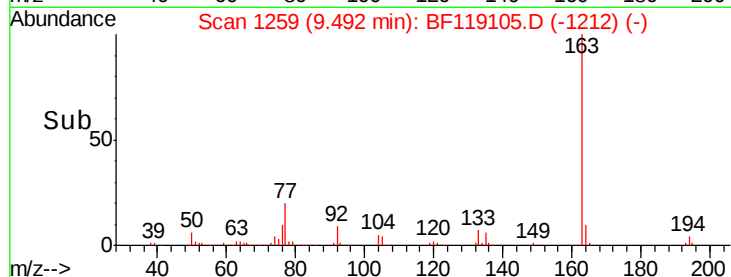
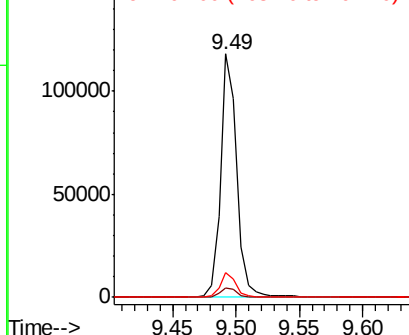
163 100

194 4.0 3.5 5.3

164 10.4 8.4 12.6



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: 7.748 ng

RT: 9.77 min Scan# 1307

Delta R.T. 0.19 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

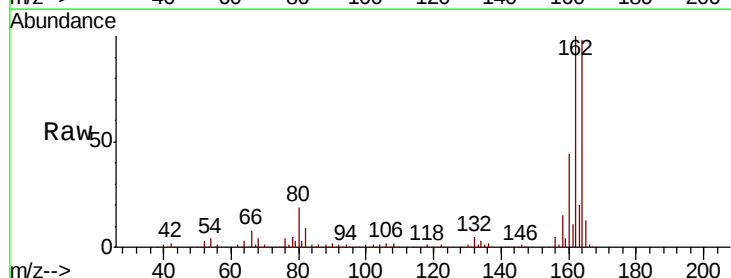
Tgt Ion:165 Resp: 41978

Ion Ratio Lower Upper

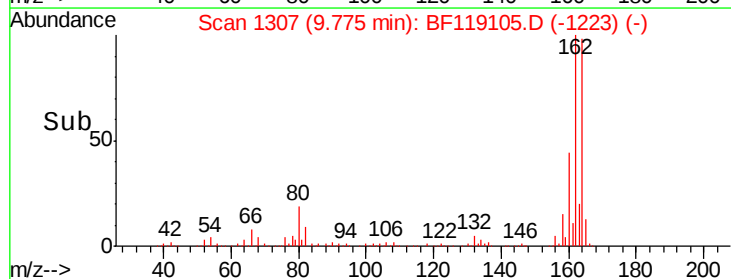
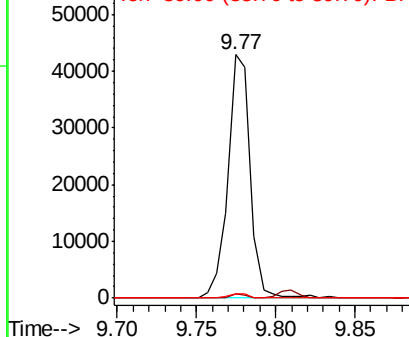
165 100

63 1.5 34.3 51.5#

89 1.7 38.3 57.5#



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

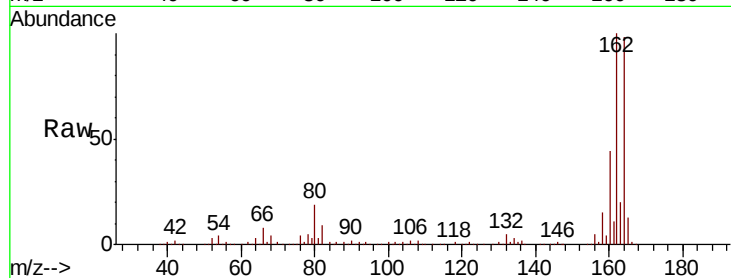




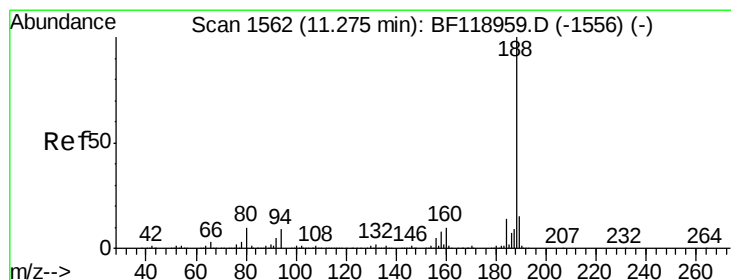
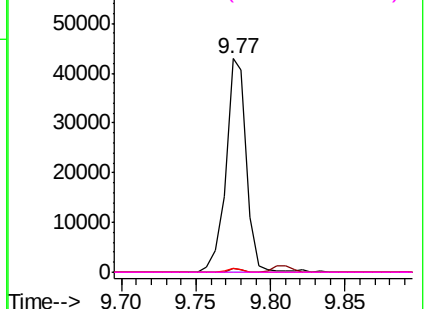
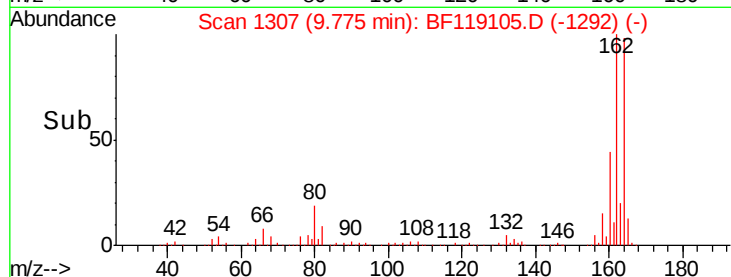
#57
2,4-Dinitrotoluene
Concen: 5.978 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.21 min
Lab File: BF119105.D
Acq: 27 Feb 2020 11:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	42.3	63.5#
89	1.7	60.2	90.4#
182	0.0	2.3	3.5#

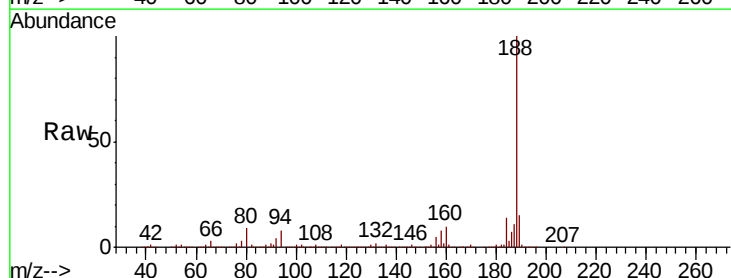


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

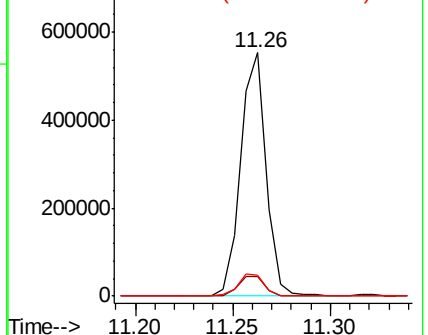
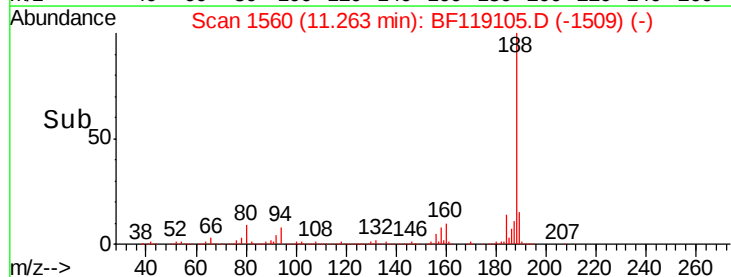


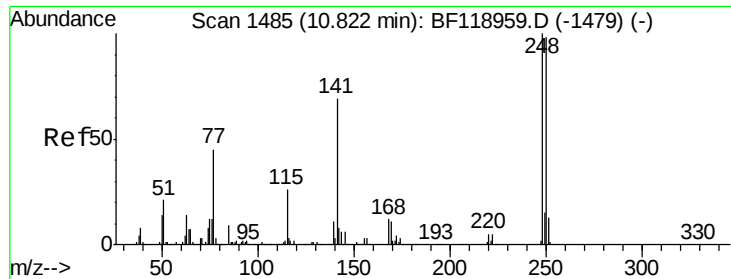
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BF119105.D
Acq: 27 Feb 2020 11:29

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.9	7.1	10.7
80	8.8	7.8	11.8



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: 3.770 ng

RT: 10.57 min Scan# 1442

Delta R.T. -0.24 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampled :

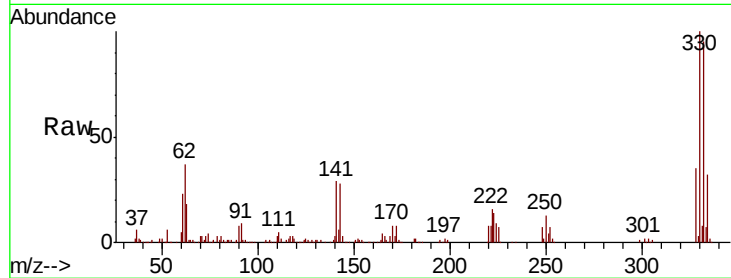
Tot Ion:248 Resp: 24588

Ion Ratio Lower Upper

248 100

250 204.5 76.7 115.1#

141 438.9 60.7 91.1#

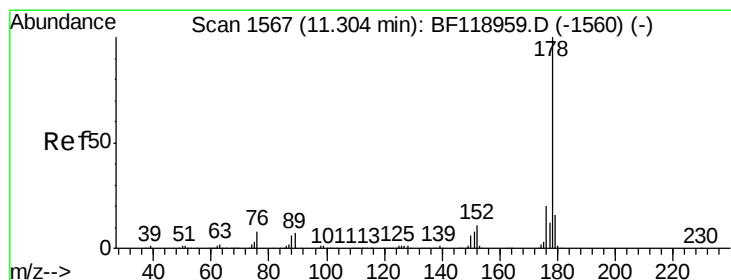
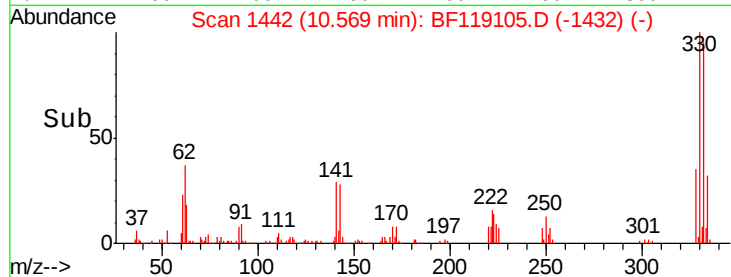
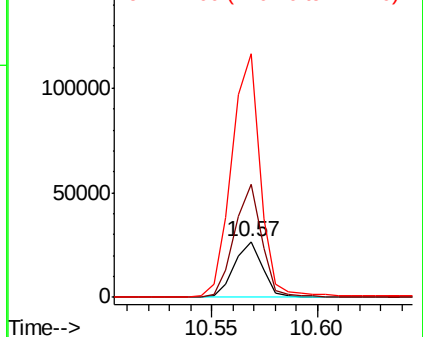


Abundance

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: 11.793 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

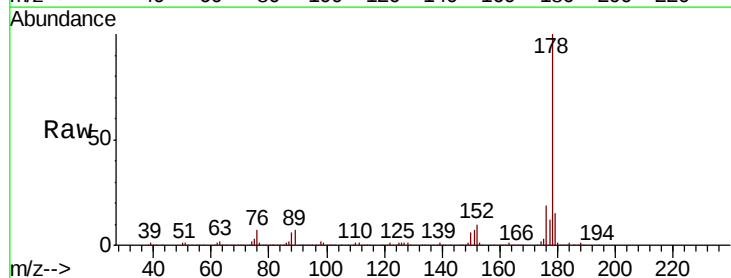
Tgt Ion:178 Resp: 320924

Ion Ratio Lower Upper

178 100

176 19.4 16.5 24.7

179 15.4 13.0 19.6

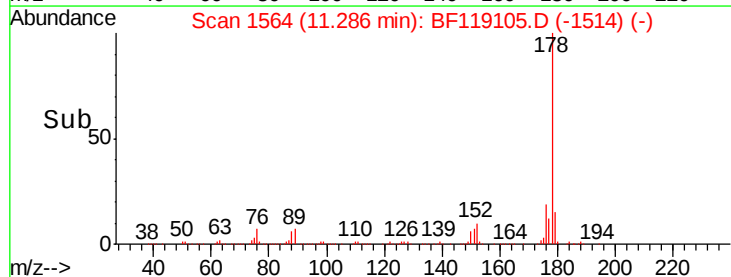
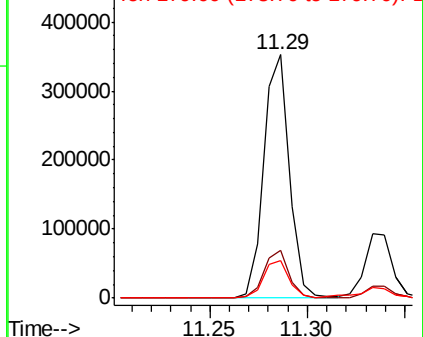


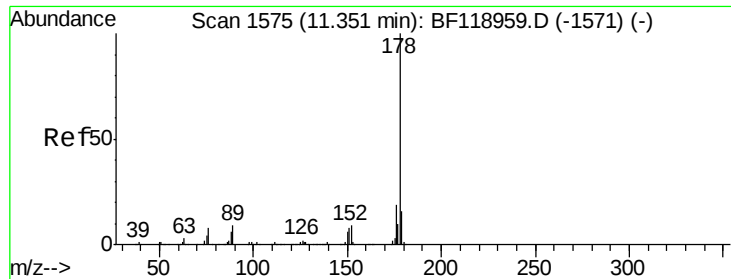
Abundance

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: 3.161 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

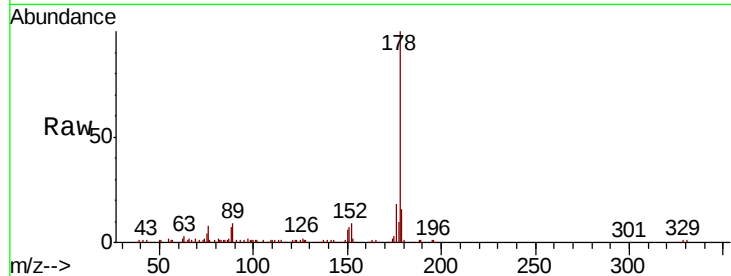
Tot Ion:178 Resp: 85965

Ion Ratio Lower Upper

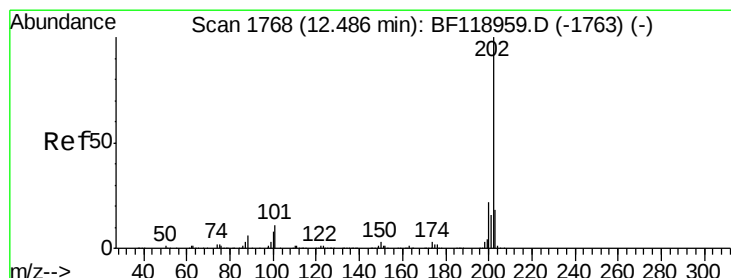
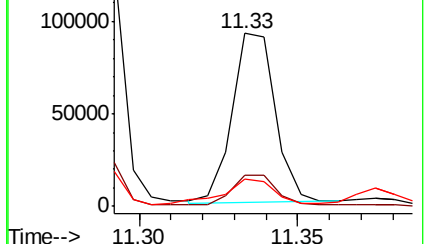
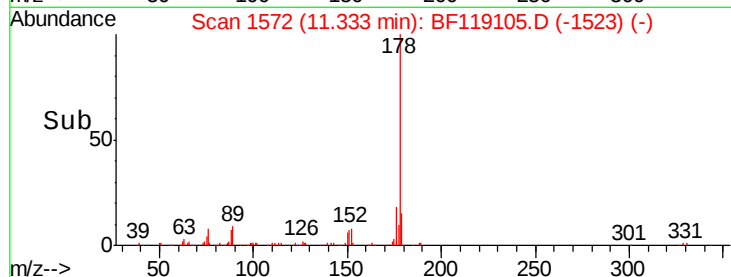
178 100

176 18.0 16.0 24.0

179 15.9 13.1 19.7



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: 20.215 ng

RT: 12.47 min Scan# 1766

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

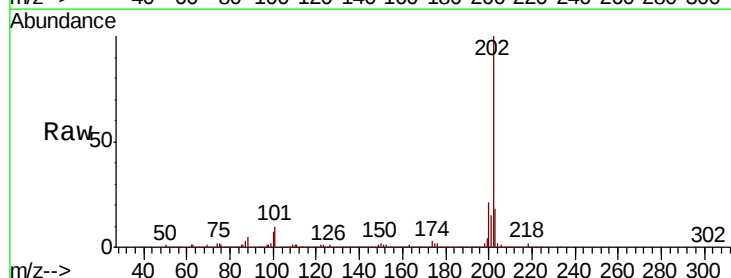
Tgt Ion:202 Resp: 583932

Ion Ratio Lower Upper

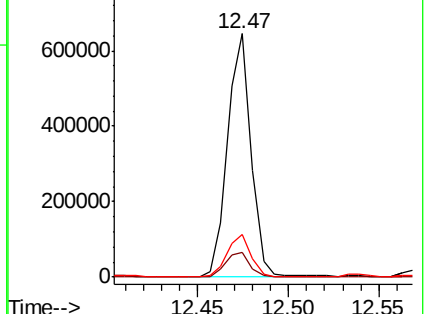
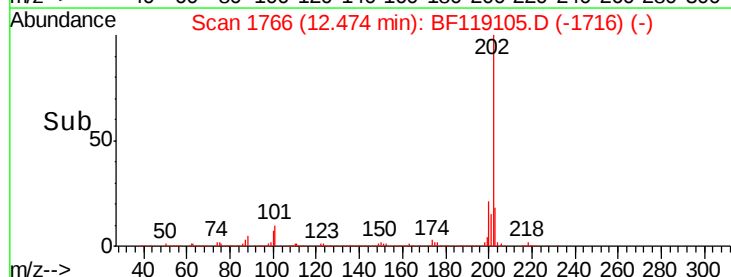
202 100

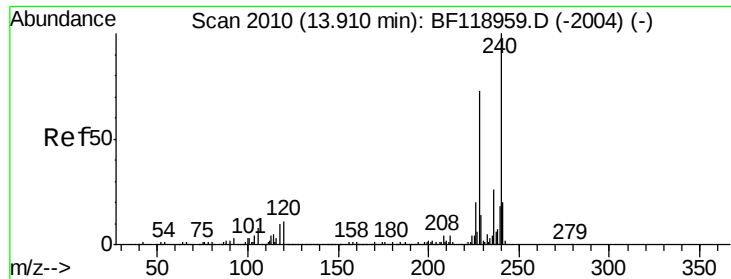
101 10.2 0.0 30.3

203 17.7 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: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

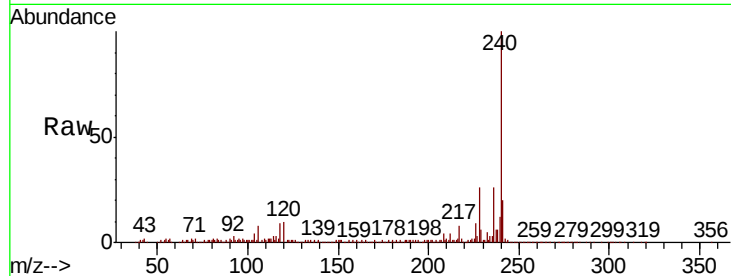
Tot Ion:240 Resp: 355190

Ion Ratio Lower Upper

240 100

120 10.3 8.4 12.6

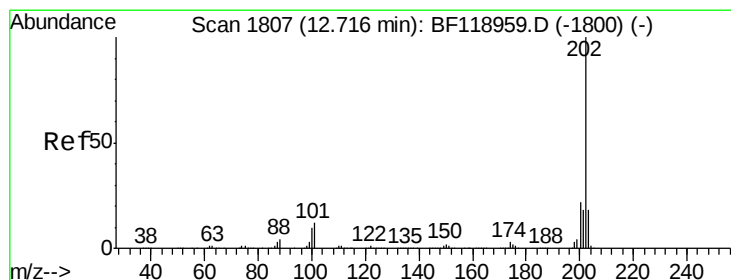
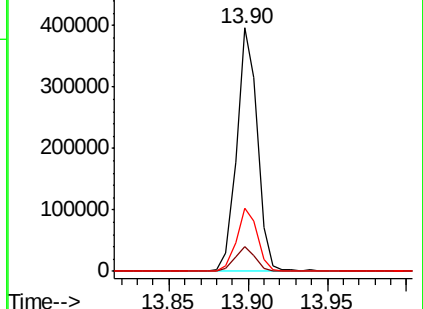
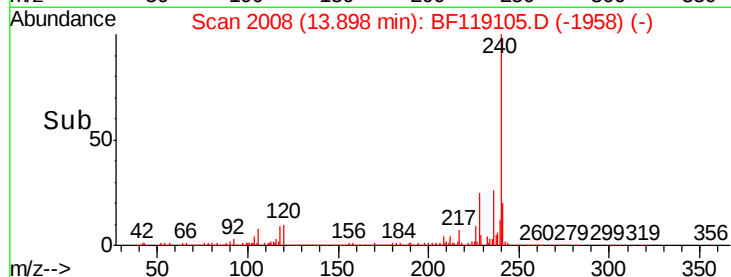
236 25.9 21.0 31.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 18.743 ng

RT: 12.70 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

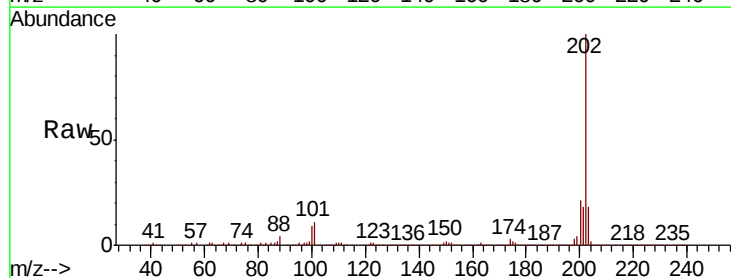
Tgt Ion:202 Resp: 534573

Ion Ratio Lower Upper

202 100

200 20.7 18.0 27.0

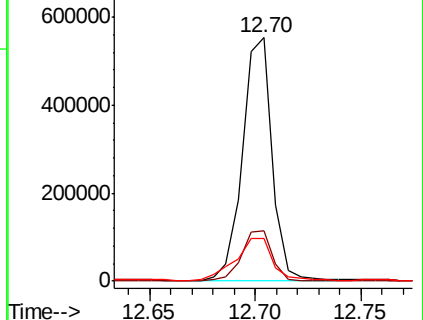
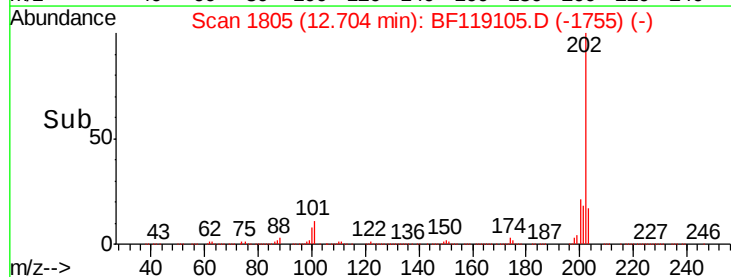
203 17.5 14.6 22.0

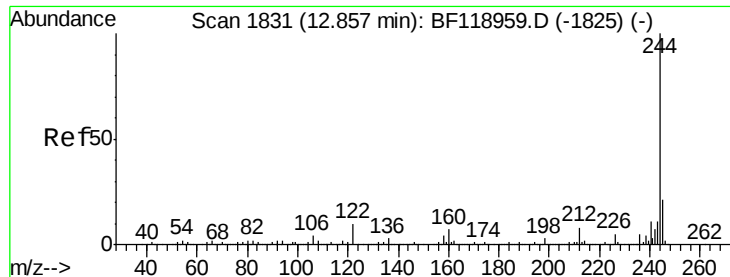


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 63.861 ng

RT: 12.84 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

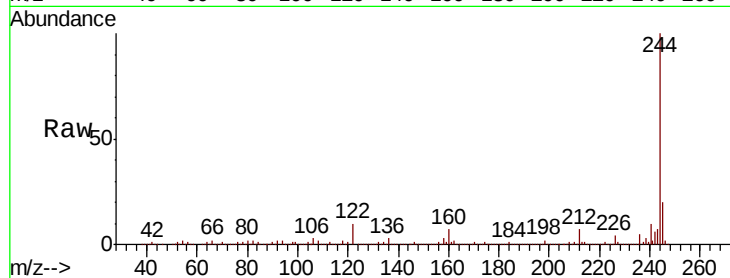
Tot Ion:244 Resp: 1317491

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.6	10.0
122	9.7	8.2	12.2

244 100

212 7.3 6.6 10.0

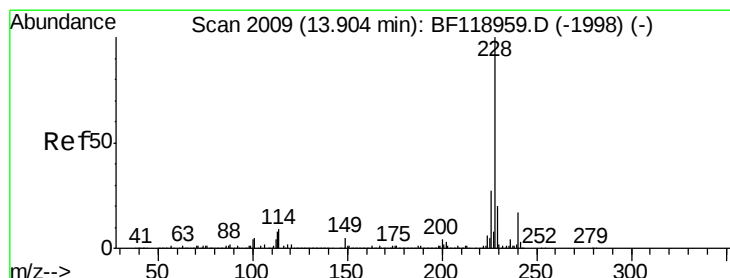
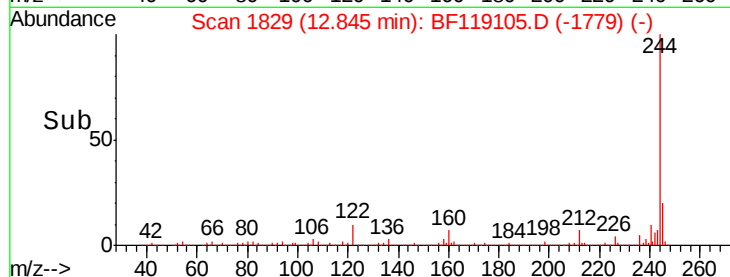
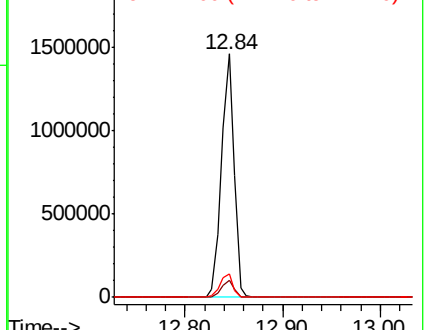
122 9.7 8.2 12.2



Abundance Ion 244.00 (243.70 to 244.70): E

2000000 Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 11.713 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.00 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

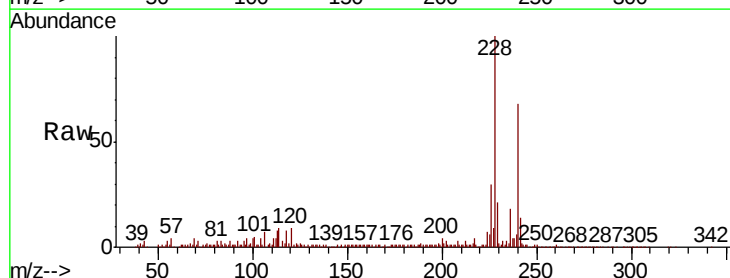
Tgt Ion:228 Resp: 283471

Ion	Ratio	Lower	Upper
228	100		
226	30.3	22.6	33.8
229	20.5	16.6	24.8

228 100

226 30.3 22.6 33.8

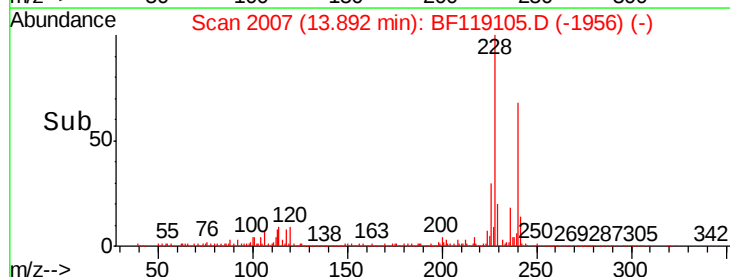
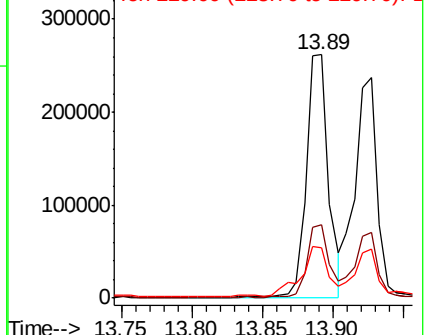
229 20.5 16.6 24.8

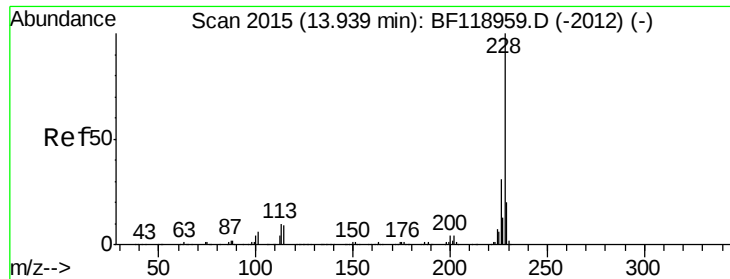


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

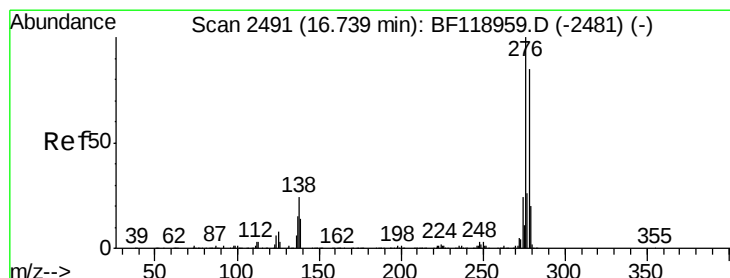
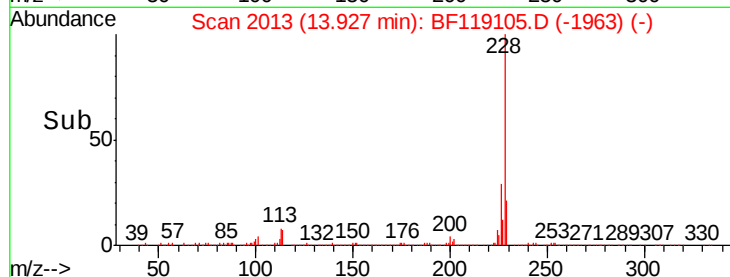
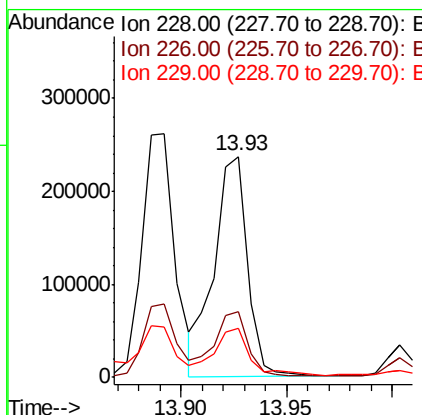
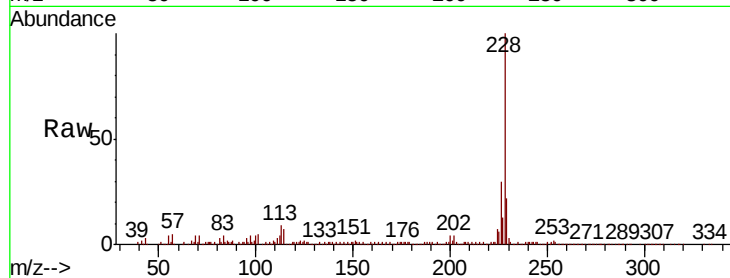




#83
 Chrysene
 Concen: 10.782 ng
 RT: 13.93 min Scan# 2013
 Delta R.T. -0.01 min
 Lab File: BF119105.D
 Acq: 27 Feb 2020 11:29

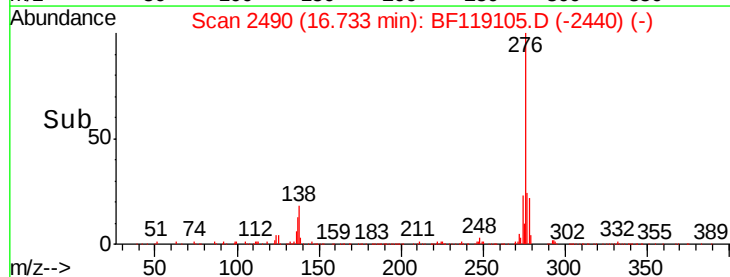
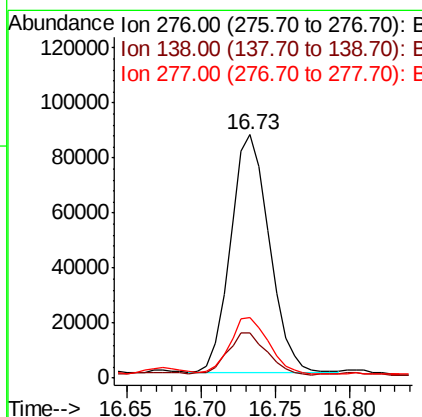
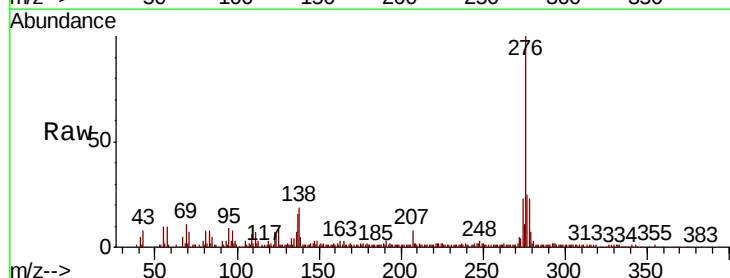
Instrument :
 BNA_F
 ClientSampleId :

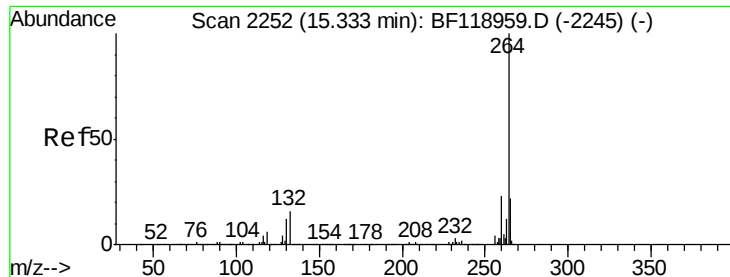
Tot Ion:228 Resp: 260001
 Ion Ratio Lower Upper
 228 100
 226 29.5 25.1 37.7
 229 22.1 16.3 24.5



#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.714 ng
 RT: 16.73 min Scan# 2490
 Delta R.T. -0.01 min
 Lab File: BF119105.D
 Acq: 27 Feb 2020 11:29

Tgt Ion:276 Resp: 156765
 Ion Ratio Lower Upper
 276 100
 138 18.2 17.4 26.0
 277 24.0 20.3 30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.33 min Scan# 2251

Delta R.T. 0.01 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

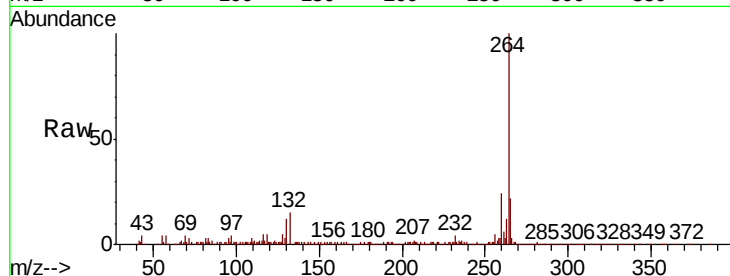
Tot Ion:264 Resp: 406904

Ion Ratio Lower Upper

264 100

260 24.1 19.4 29.2

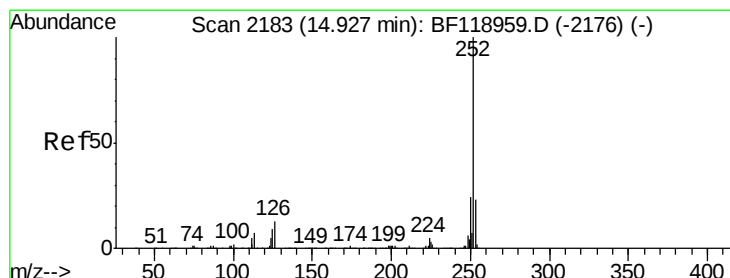
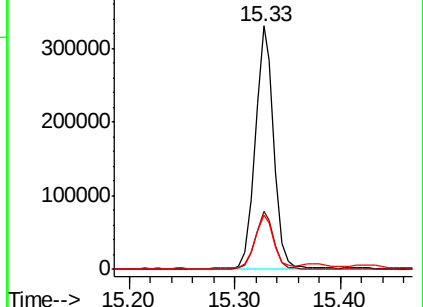
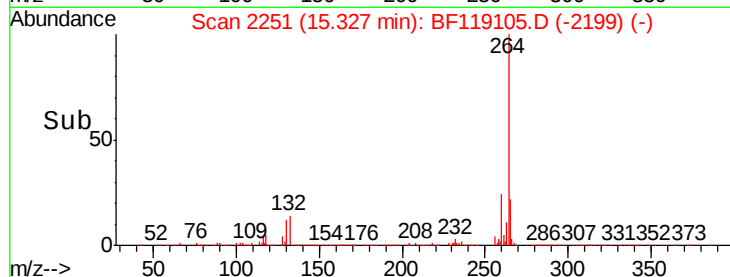
265 22.1 17.7 26.5



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: 18.258 ng

RT: 14.92 min Scan# 2182

Delta R.T. -0.00 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

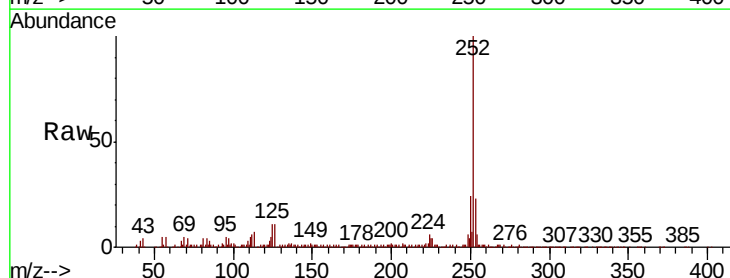
Tgt Ion:252 Resp: 489705

Ion Ratio Lower Upper

252 100

253 22.6 18.1 27.1

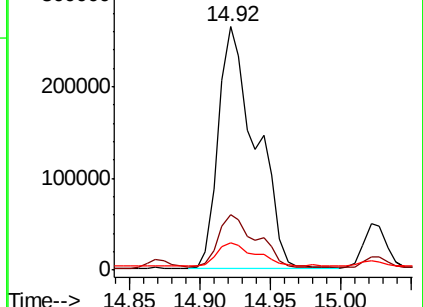
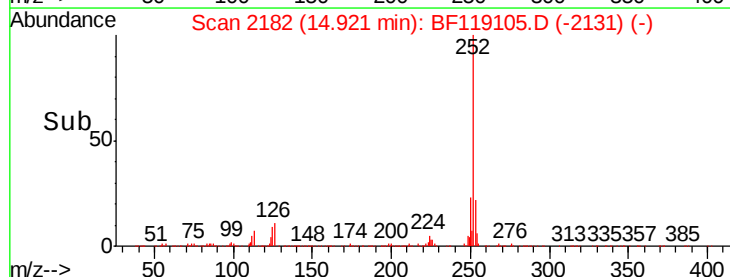
125 11.0 7.4 11.0

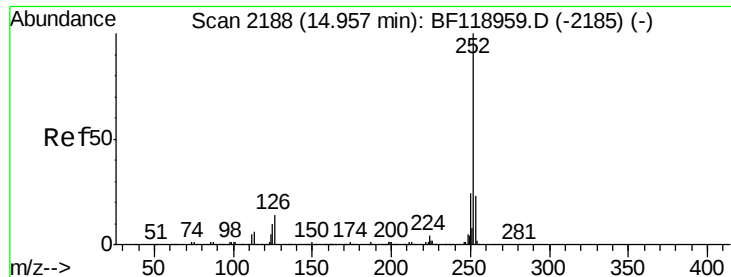


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

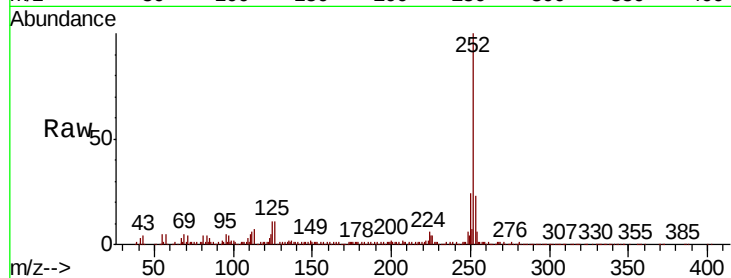




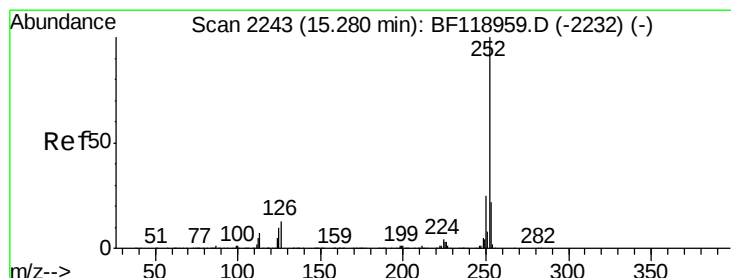
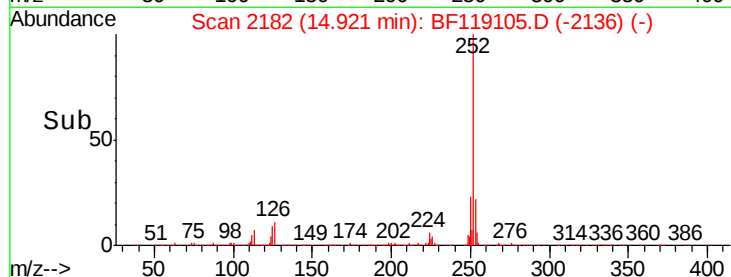
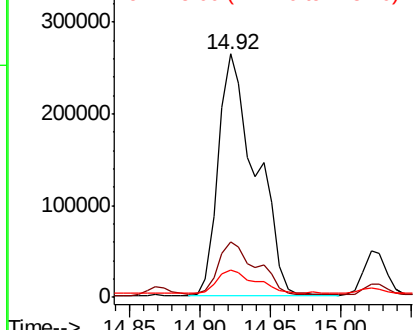
#89
Benzo(k)fluoranthene
Concen: 19.702 ng
RT: 14.92 min Scan# 2182
Delta R.T. -0.03 min
Lab File: BF119105.D
Acq: 27 Feb 2020 11:29

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	11.0	7.5	11.3

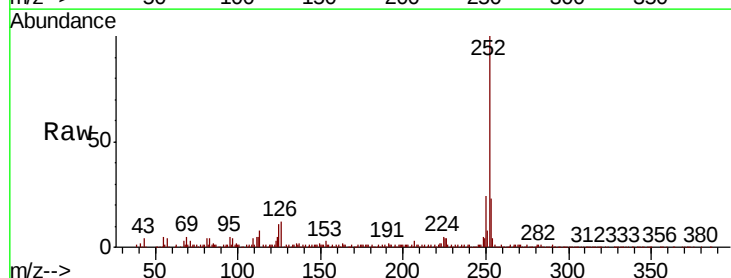


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

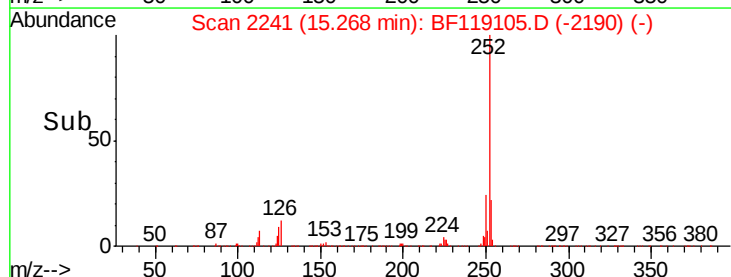
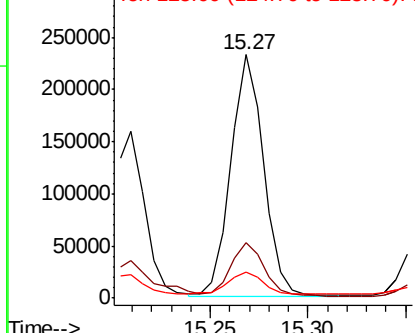


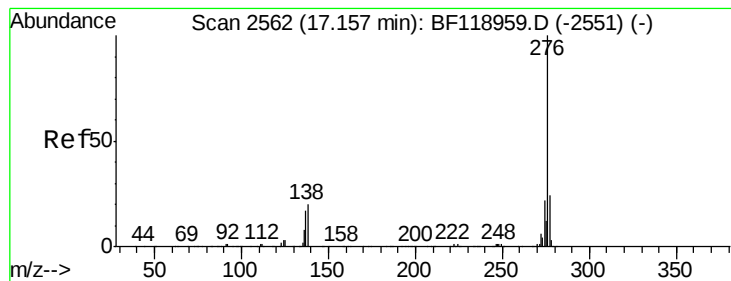
#90
Benzo(a)pyrene
Concen: 11.240 ng
RT: 15.27 min Scan# 2241
Delta R.T. -0.00 min
Lab File: BF119105.D
Acq: 27 Feb 2020 11:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	10.6	8.6	12.8



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(a,h,i)perylene

Concen: 7.091 ng

RT: 17.16 min Scan# 2562

Delta R.T. -0.00 min

Lab File: BF119105.D

Acq: 27 Feb 2020 11:29

Instrument :

BNA_F

ClientSampleId :

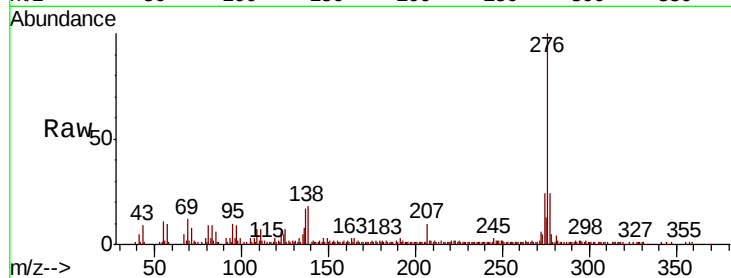
Tot Ion:276 Resp: 149220

Ion Ratio Lower Upper

276 100

277 24.2 18.7 28.1

138 18.3 14.3 21.5



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

