

Data Path : U:\HPCHEM1\BNA F\DATA\BF012718\
 Data File : BF102545.D
 Acq On : 28 Jan 2018 7:56
 Operator : SJ/JU
 Sample : J1256-05DL 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

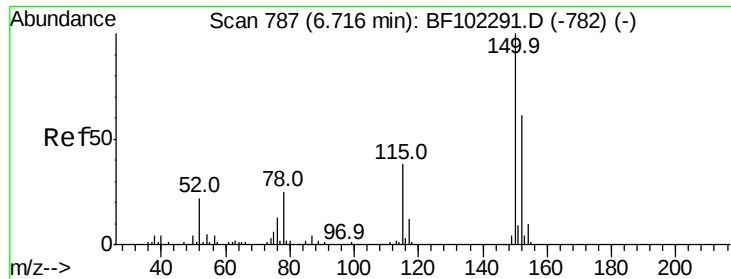
Quant Time: Jan 28 23:55:31 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 27 20:48:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	179920	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	686790	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	269622	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	361902	20.00	ng	0.00
75) Chrysene-d12	13.88	240	251606	20.00	ng	0.00
86) Perylene-d12	15.32	264	205424	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	244815	20.63	ng	0.00
7) Phenol-d6	6.36	99	313824	21.94	ng	0.00
23) Nitrobenzene-d5	7.27	82	175425	14.68	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	39506	14.79	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	331536	18.08	ng	0.00
78) Terphenyl-d14	12.82	244	179367	16.07	ng	0.00

Target Compounds				Qvalue		
25) Isophorone	7.27	82	175425	8.234	ng	# 65
49) Dimethylphthalate	9.46	163	44618	2.002	ng	98
51) Acenaphthene	9.78	154	48958	2.871	ng	98
57) Fluorene	10.29	166	58778	3.215	ng	98
70) Phenanthrene	11.26	178	524513	24.872	ng	99
71) Anthracene	11.31	178	135861	6.312	ng	99
72) Carbazole	11.47	167	69847	3.326	ng	96
74) Fluoranthene	12.45	202	705530	32.807	ng	99
77) Pyrene	12.68	202	660541	33.955	ng	99
80) Benzo(a)anthracene	13.87	228	308162	19.894	ng	97
82) Chrysene	13.91	228	303155	19.272	ng	98
85) Indeno(1,2,3-cd)pyrene	16.73	276	154756	11.912	ng	95
87) Benzo(b)fluoranthene	14.91	252	483951	36.348	ng	# 87
88) Benzo(k)fluoranthene	14.91	252	483951	38.472	ng	# 90
89) Benzo(a)pyrene	15.26	252	237566	19.784	ng	# 88
90) Dibenzo(a,h)anthracene	16.73	278	34690	3.566	ng	# 72
91) Benzo(g,h,i)perylene	17.14	276	161750	16.841	ng	94

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

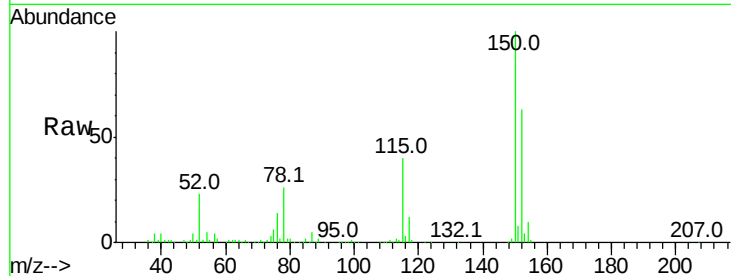


#1

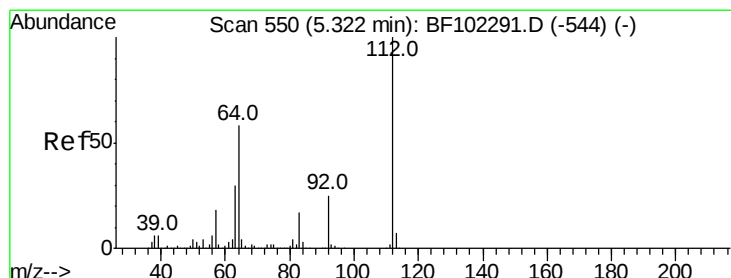
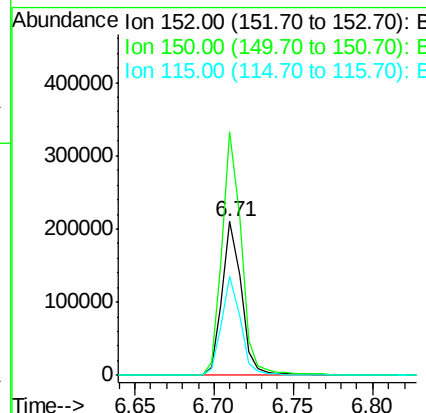
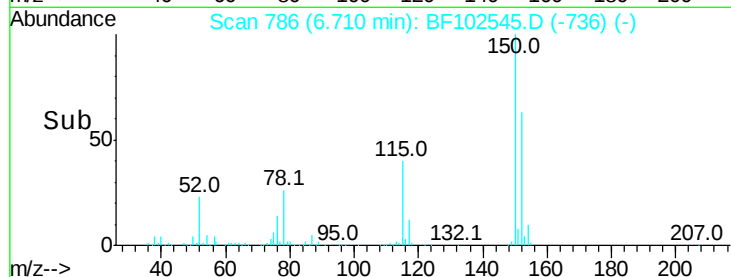
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 179920
Ion Ratio Lower Upper
152 100
150 158.4 124.6 186.8
115 64.0 50.1 75.1



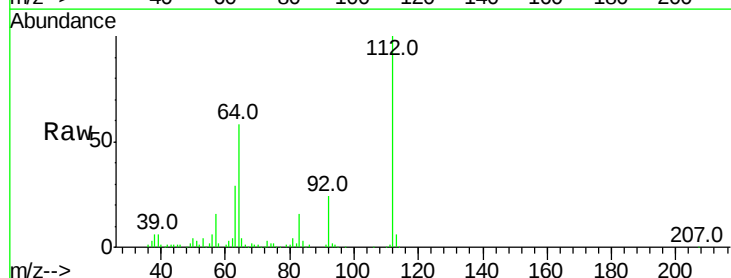
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



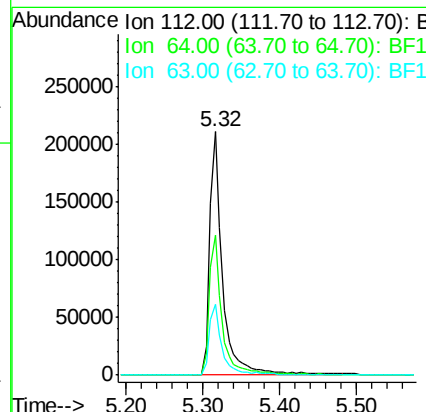
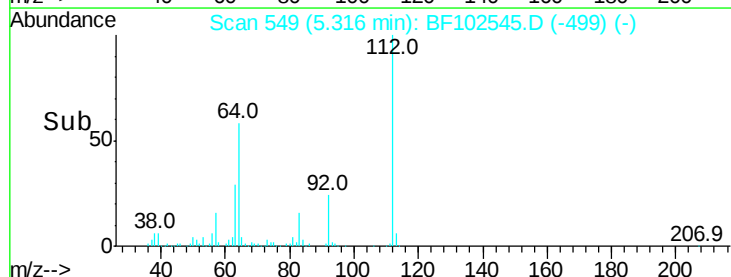
#5

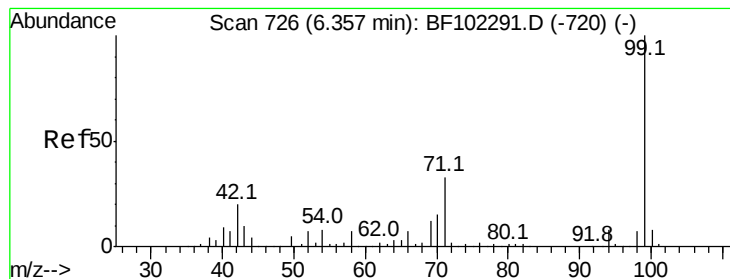
2-Fluorophenol
Concen: 20.632 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

Tgt Ion:112 Resp: 244815
Ion Ratio Lower Upper
112 100
64 57.7 47.9 71.9
63 28.9 23.7 35.5



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: 21.937 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampled :

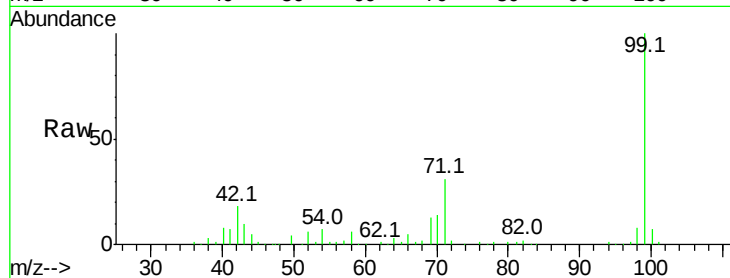
Tot Ion: 99 Resp: 313824

Ion Ratio Lower Upper

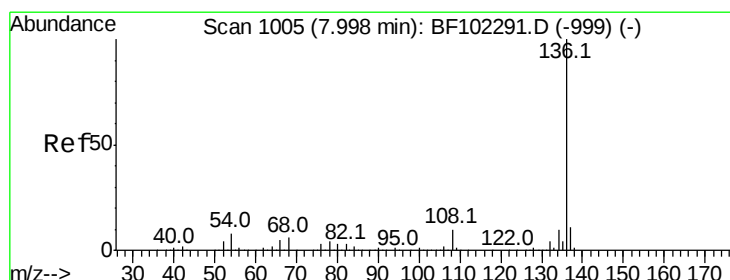
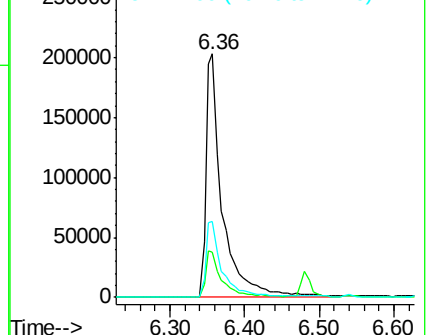
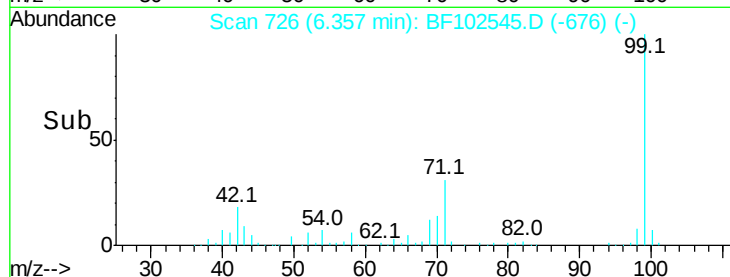
99 100

42 18.4 14.5 21.7

71 31.2 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Tgt Ion: 136 Resp: 686790

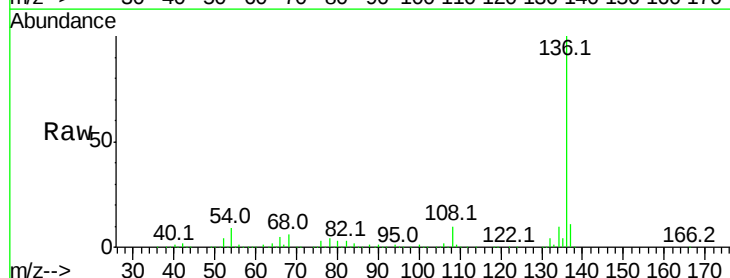
Ion Ratio Lower Upper

136 100

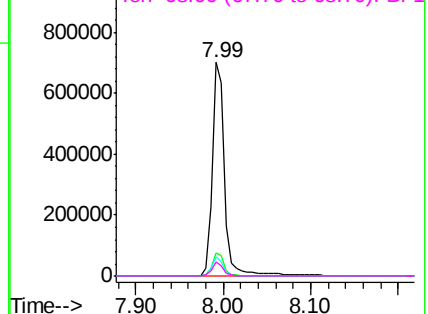
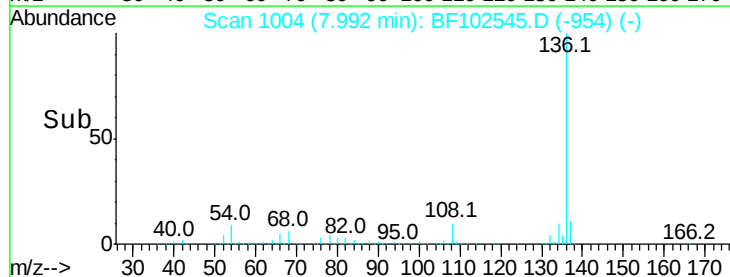
137 10.9 8.9 13.3

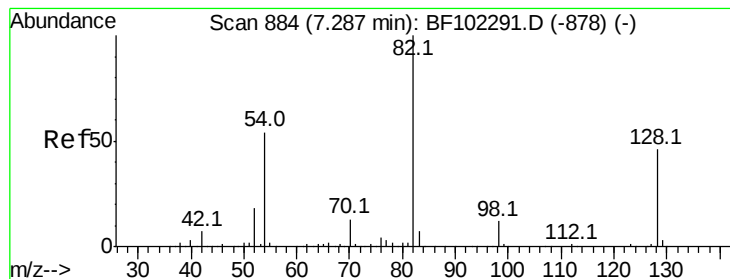
54 9.1 6.6 9.8

68 6.3 5.0 7.4



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: 14.679 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampled :

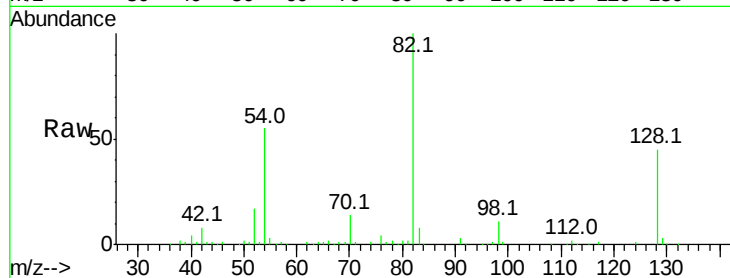
Tot Ion: 82 Resp: 175425

Ion Ratio Lower Upper

82 100

128 44.5 36.1 54.1

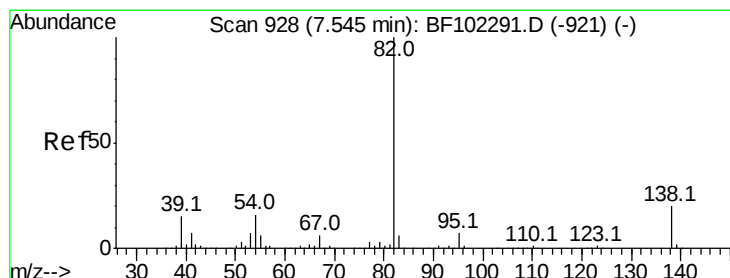
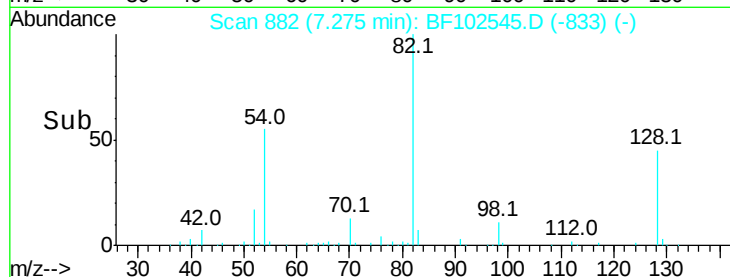
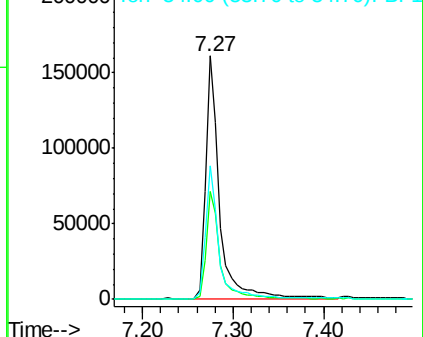
54 55.1 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 8.234 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.27 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

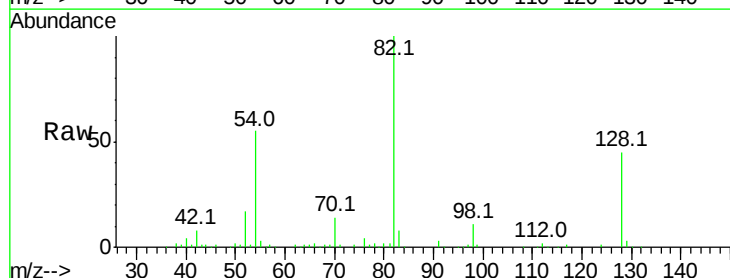
Tgt Ion: 82 Resp: 175425

Ion Ratio Lower Upper

82 100

95 0.3 5.2 7.8#

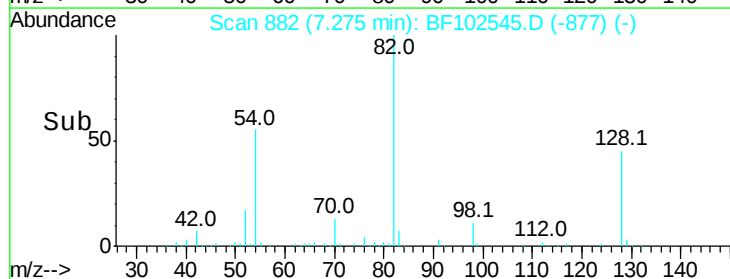
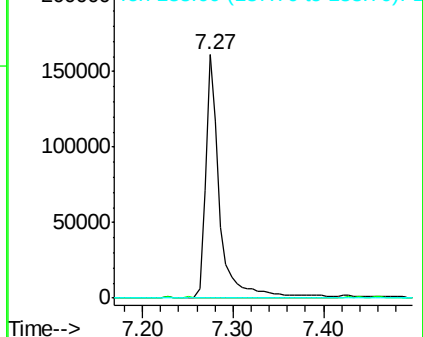
138 0.0 14.9 22.3#

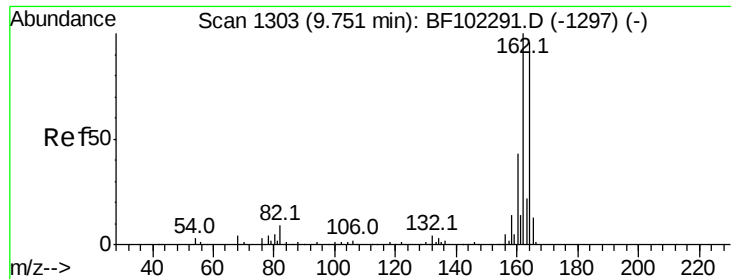


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampleId :

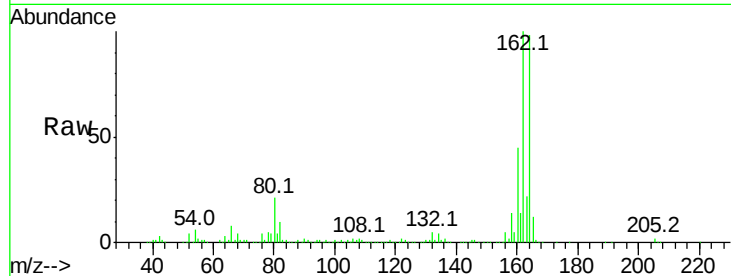
Tot Ion:164 Resp: 269622

Ion Ratio Lower Upper

164 100

162 101.6 86.1 129.1

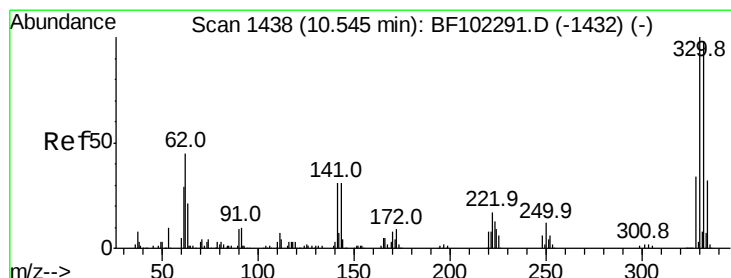
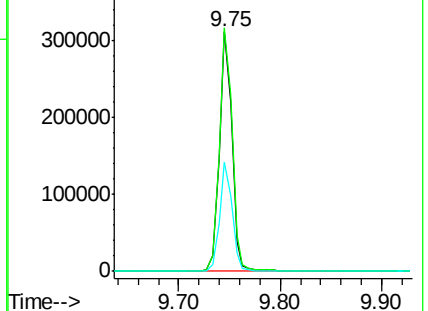
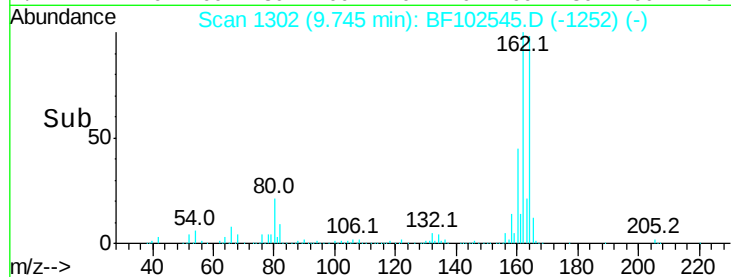
160 45.8 38.3 57.5



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



#41

2,4,6-Tribromophenol

Concen: 14.788 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

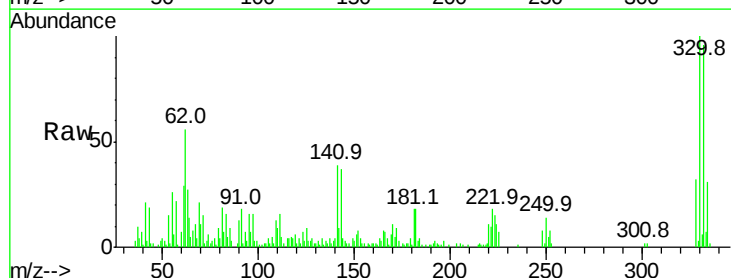
Tgt Ion:330 Resp: 39506

Ion Ratio Lower Upper

330 100

332 98.8 77.0 115.6

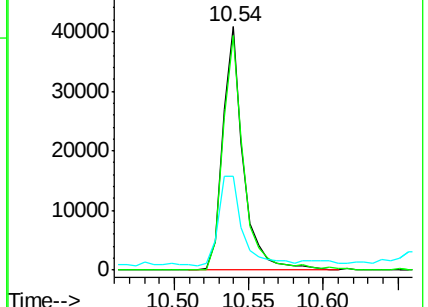
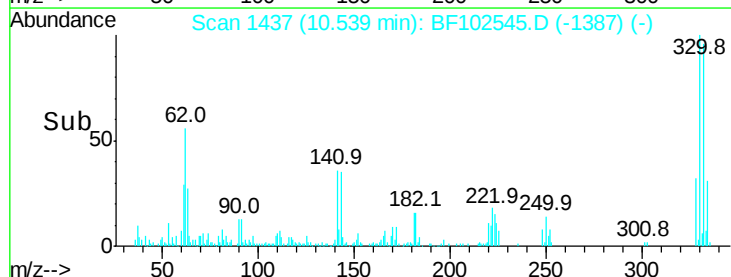
141 44.3 29.9 44.9

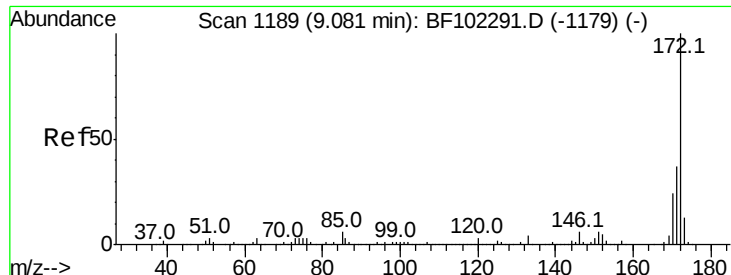


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

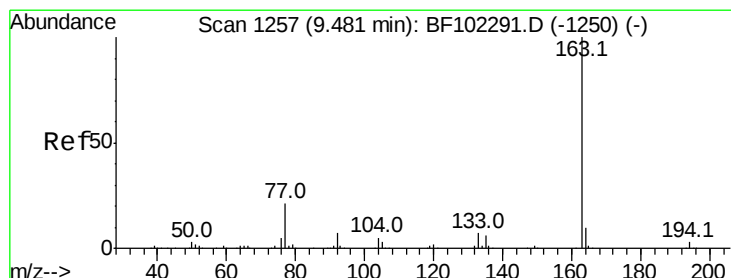
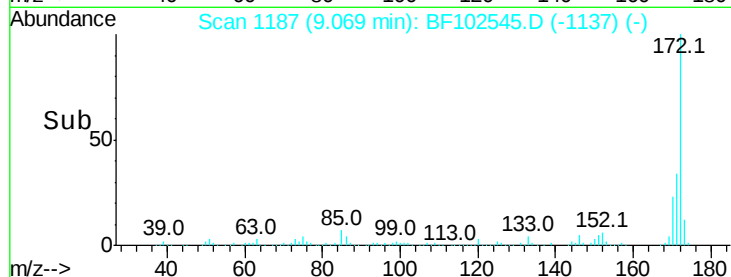
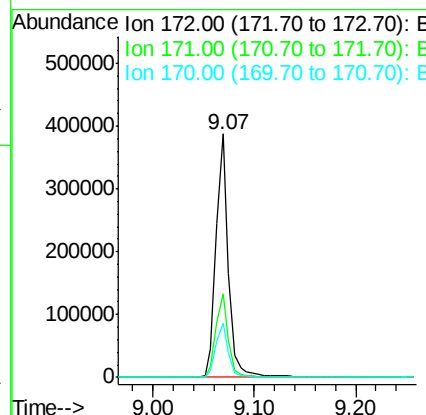
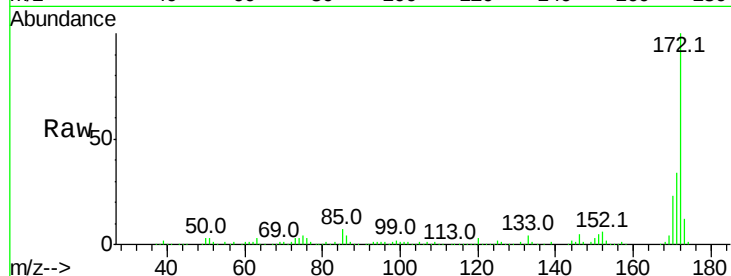




#44
2-Fluorobiphenyl
Concen: 18.080 ng
RT: 9.07 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

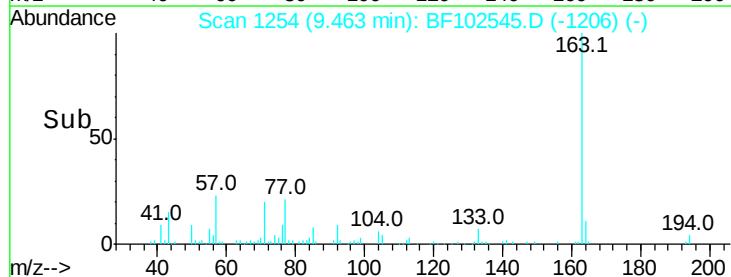
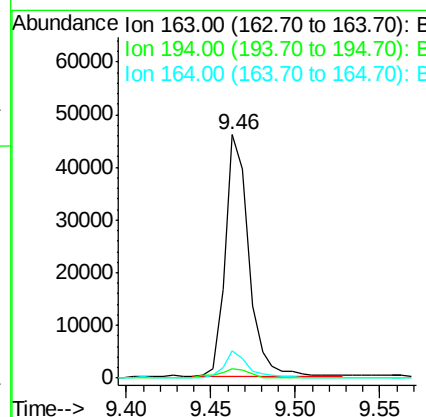
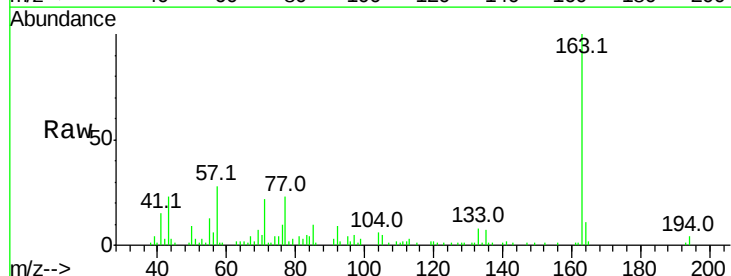
Instrument :
BNA_F
ClientSampleId :

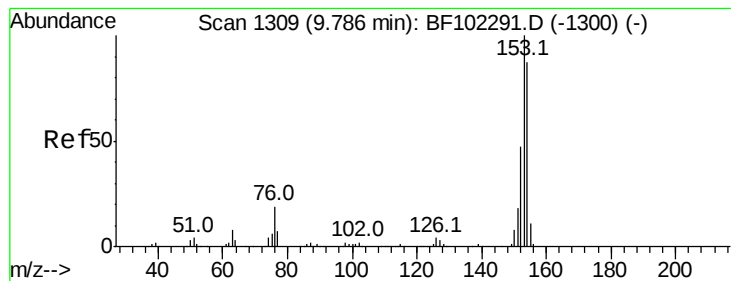
Tot Ion:172 Resp: 331536
Ion Ratio Lower Upper
172 100
171 34.4 29.7 44.5
170 22.5 19.6 29.4



#49
Dimethylphthalate
Concen: 2.002 ng
RT: 9.46 min Scan# 1254
Delta R.T. -0.02 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

Tgt Ion:163 Resp: 44618
Ion Ratio Lower Upper
163 100
194 4.0 2.7 4.1
164 11.1 8.2 12.2





#51

Acenaphthene

Concen: 2.871 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampleId :

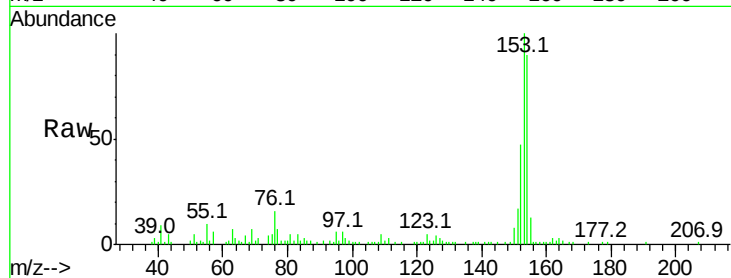
Tot Ion:154 Resp: 48958

Ion Ratio Lower Upper

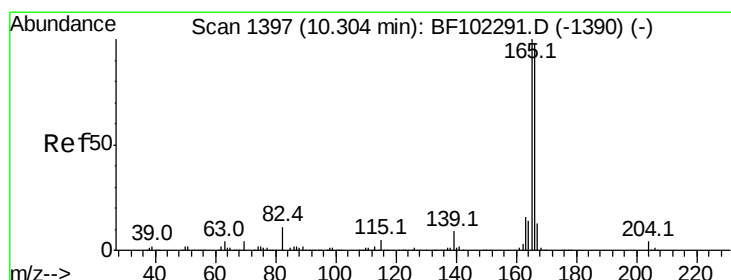
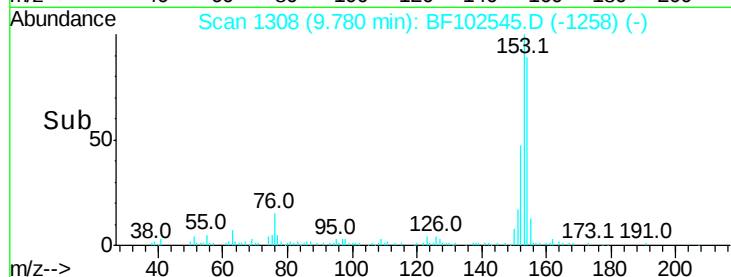
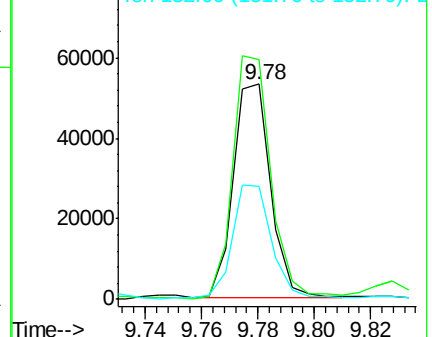
154 100

153 111.5 91.2 136.8

152 52.8 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 3.215 ng

RT: 10.29 min Scan# 1395

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

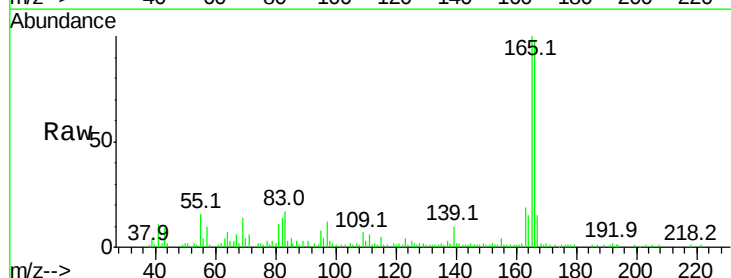
Tgt Ion:166 Resp: 58778

Ion Ratio Lower Upper

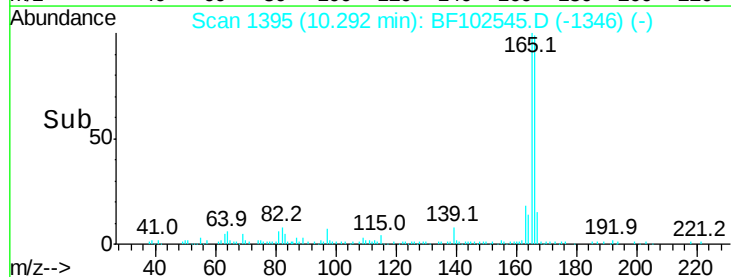
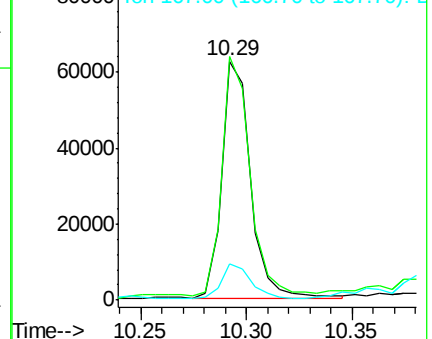
166 100

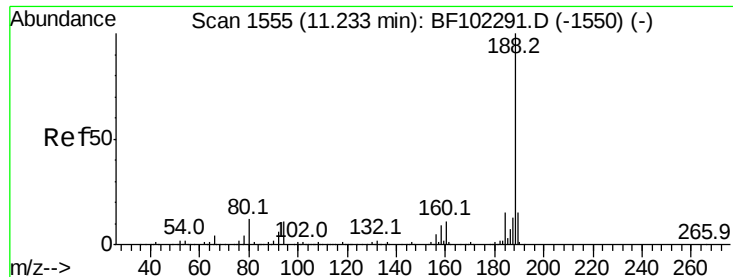
165 101.9 79.8 119.8

167 15.4 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

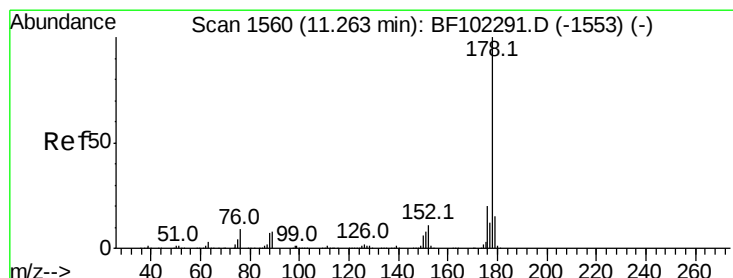
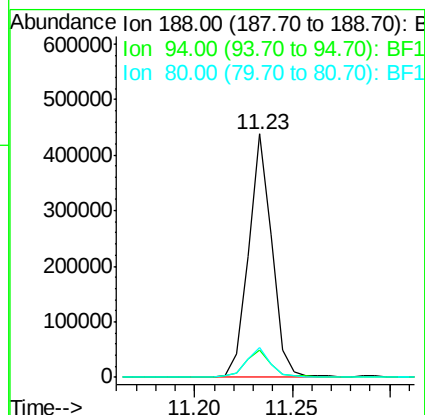
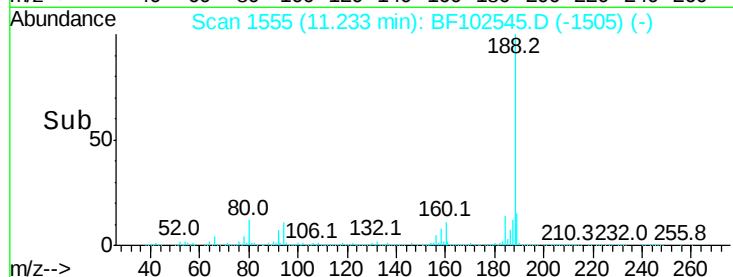
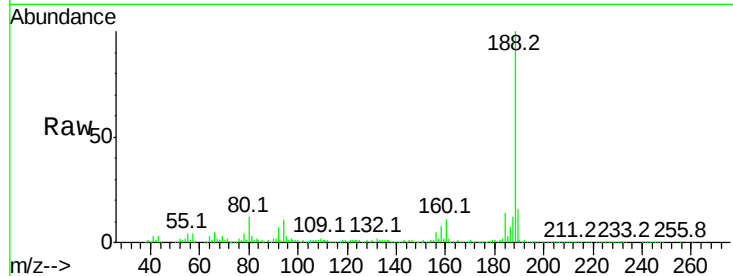




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

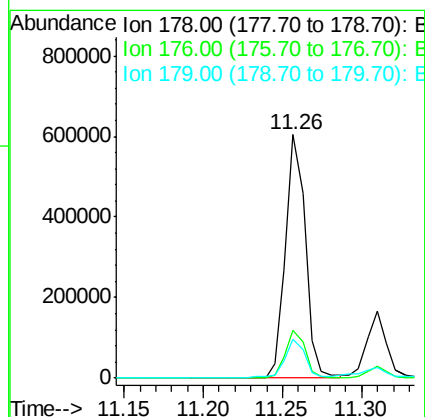
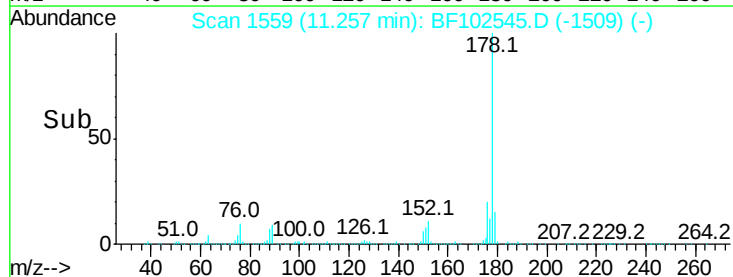
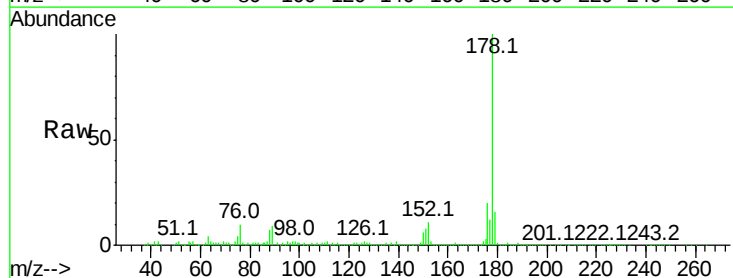
Instrument :
BNA_F
ClientSampled :

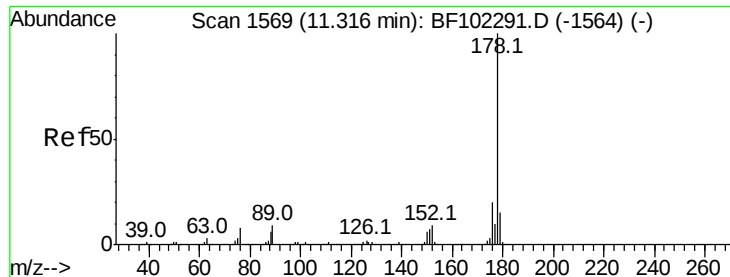
Tot Ion:188 Resp: 361902
Ion Ratio Lower Upper
188 100
94 11.3 8.5 12.7
80 12.1 9.2 13.8



#70
Phenanthrene
Concen: 24.872 ng
RT: 11.26 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

Tgt Ion:178 Resp: 524513
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.7 13.0 19.6





#71

Anthracene

Concen: 6.312 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampleId :

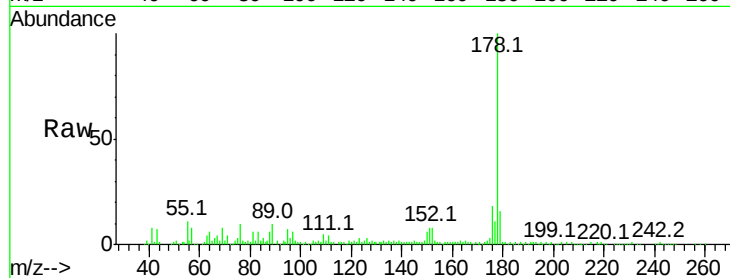
Tot Ion:178 Resp: 135861

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

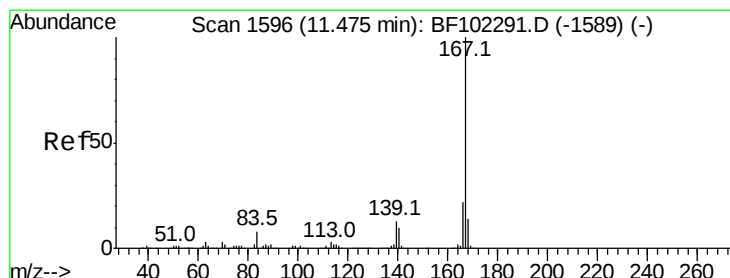
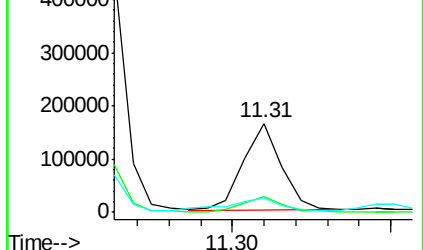
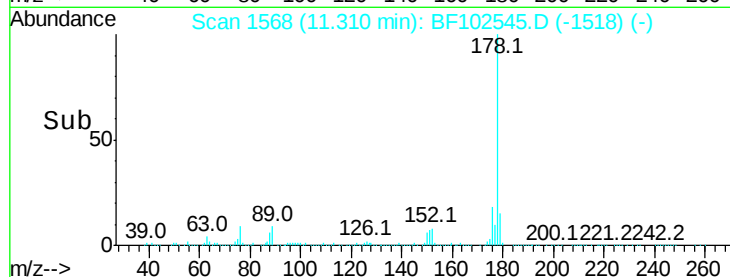
179 15.8 12.6 19.0



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

Carbazole

Concen: 3.326 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

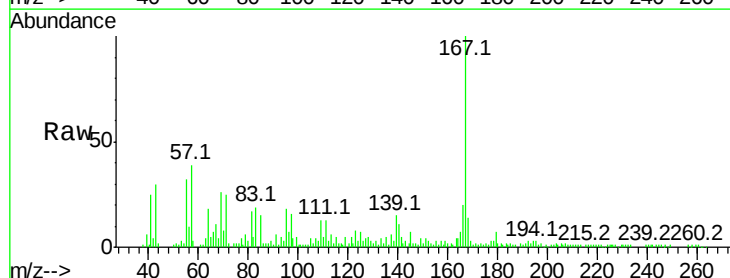
Tgt Ion:167 Resp: 69847

Ion Ratio Lower Upper

167 100

166 20.3 17.6 26.4

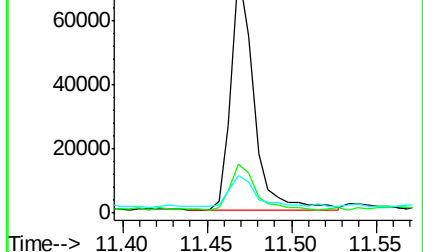
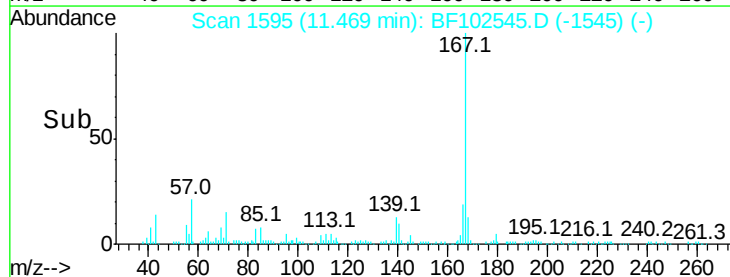
139 15.2 10.9 16.3

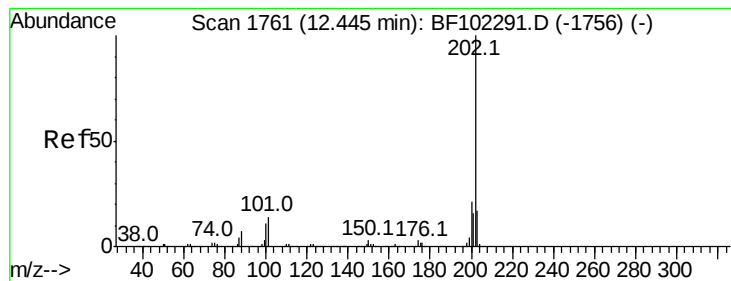


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 32.807 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampleId :

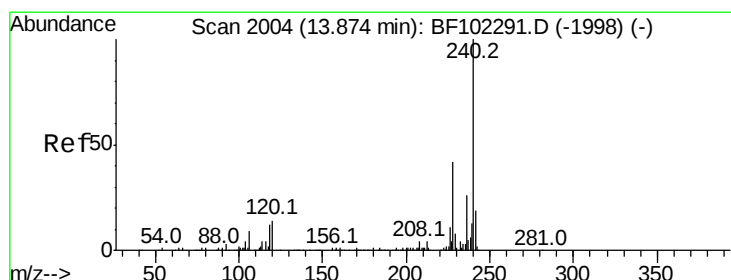
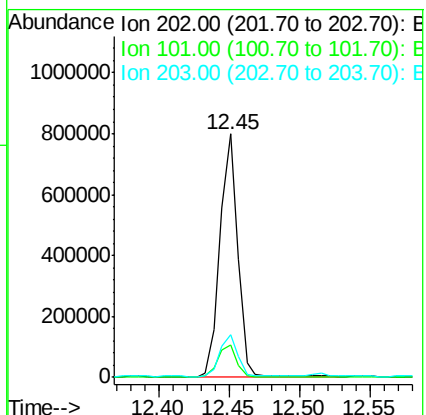
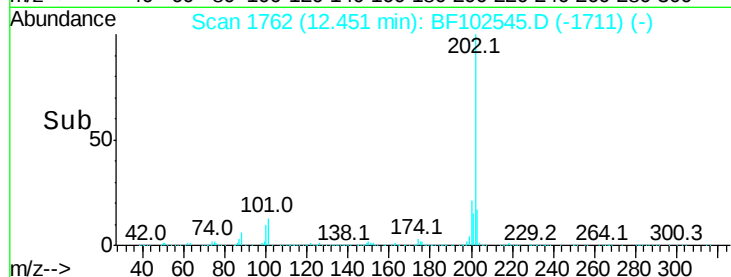
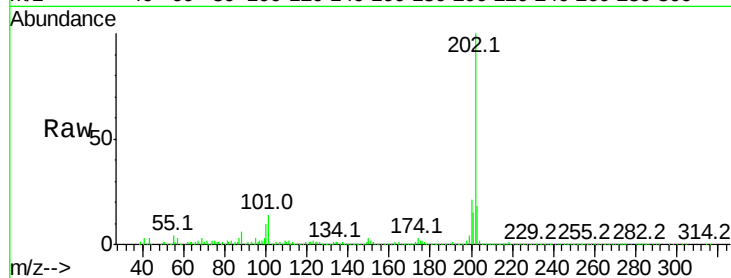
Tot Ion:202 Resp: 705530

Ion Ratio Lower Upper

202 100

101 13.6 0.0 34.1

203 17.7 0.0 38.1



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.00 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

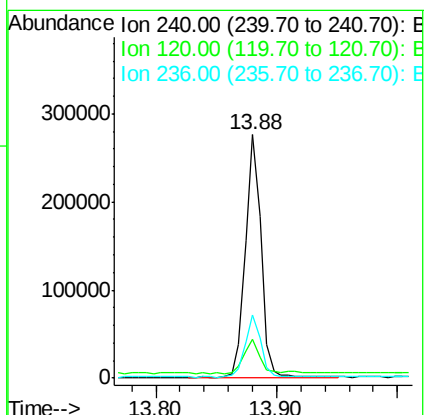
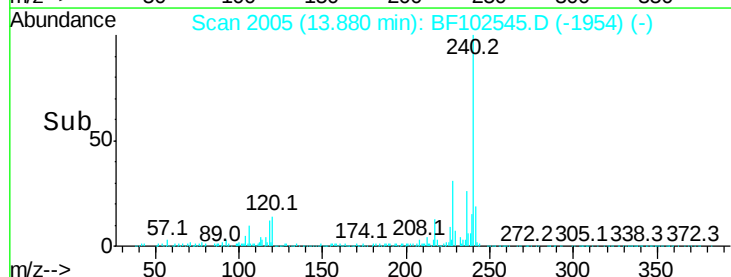
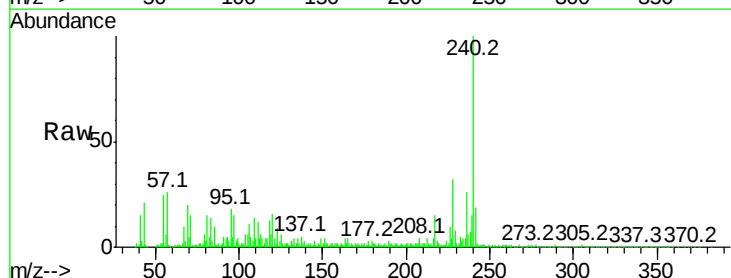
Tgt Ion:240 Resp: 251606

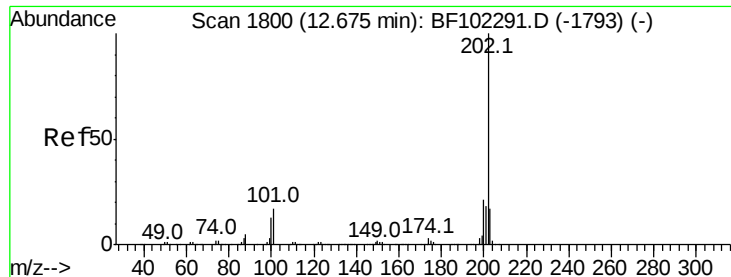
Ion Ratio Lower Upper

240 100

120 15.7 9.5 14.3#

236 26.1 20.7 31.1

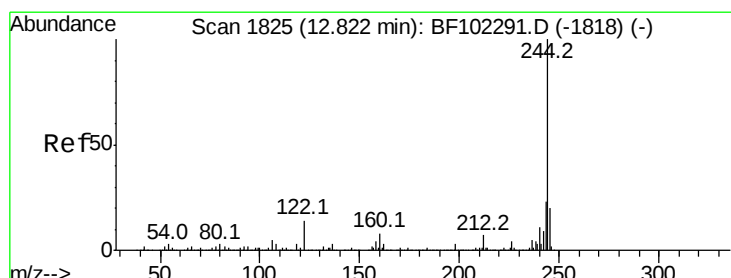
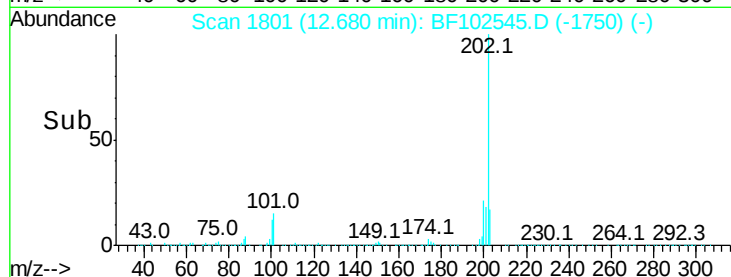
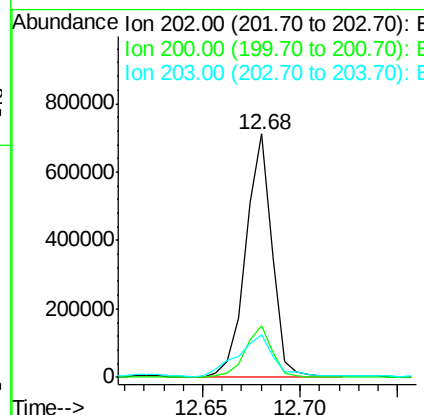
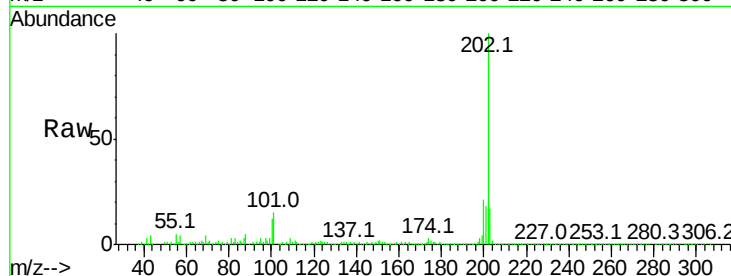




#77
Pvrene
Concen: 33.955 ng
RT: 12.68 min Scan# 1801
Delta R.T. -0.00 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

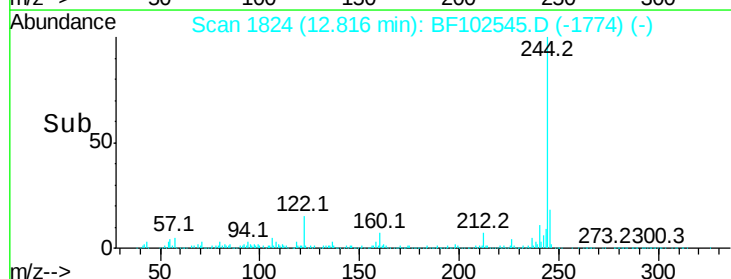
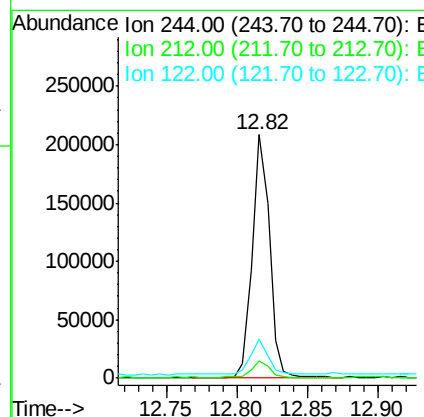
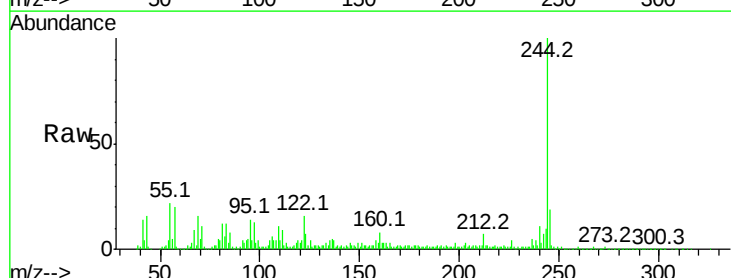
Instrument :
BNA_F
ClientSampleId :

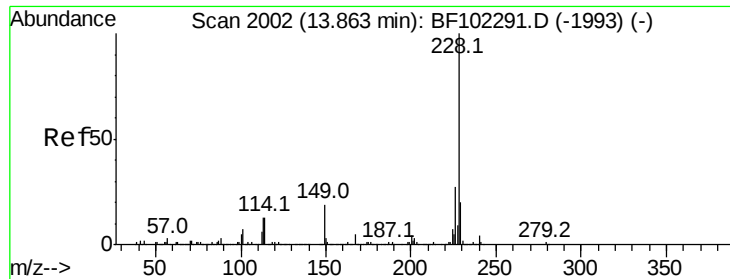
Tot Ion:202 Resp: 660541
Ion Ratio Lower Upper
202 100
200 21.1 17.4 26.2
203 17.5 14.3 21.5



#78
Terphenyl-d14
Concen: 16.071 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF102545.D
Acq: 28 Jan 2018 7:56

Tgt Ion:244 Resp: 179367
Ion Ratio Lower Upper
244 100
212 7.0 5.4 8.0
122 15.8 11.0 16.4





#80

Benzo(a)anthracene

Concen: 19.894 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampleId :

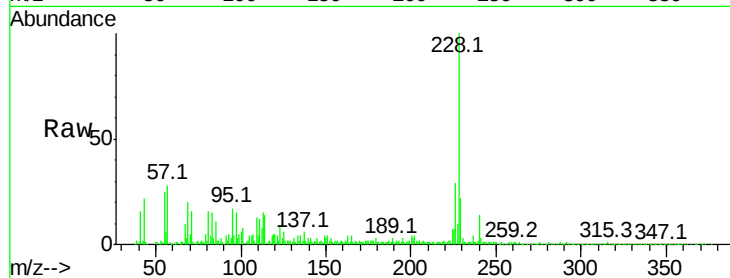
Tot Ion:228 Resp: 308162

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

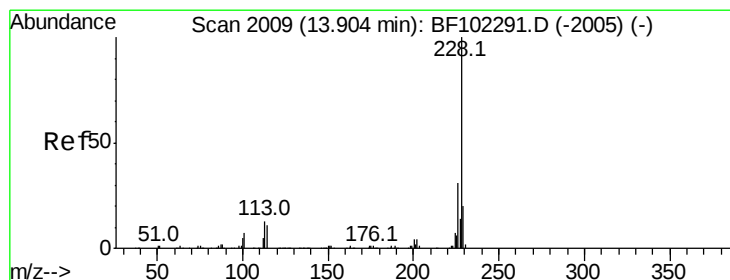
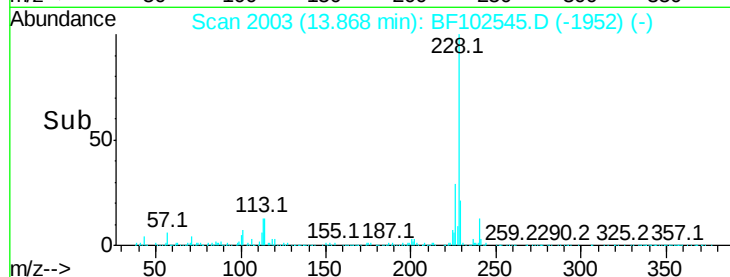
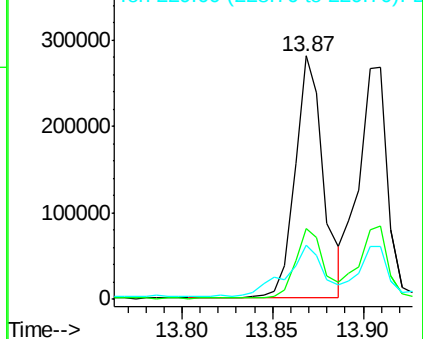
229 22.3 15.8 23.6



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



#82

Chrysene

Concen: 19.272 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.00 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

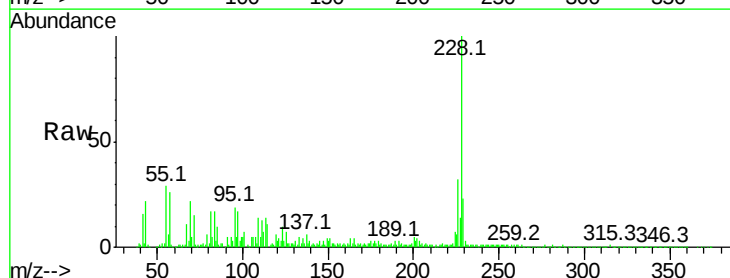
Tgt Ion:228 Resp: 303155

Ion Ratio Lower Upper

228 100

226 31.6 25.0 37.6

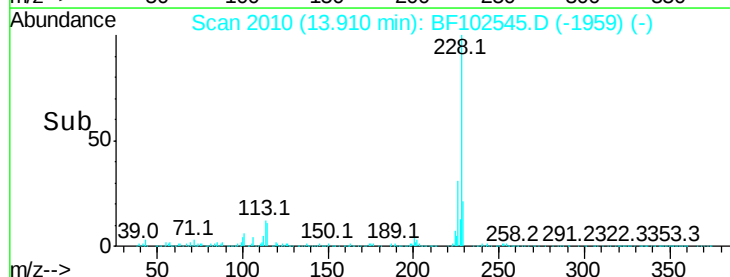
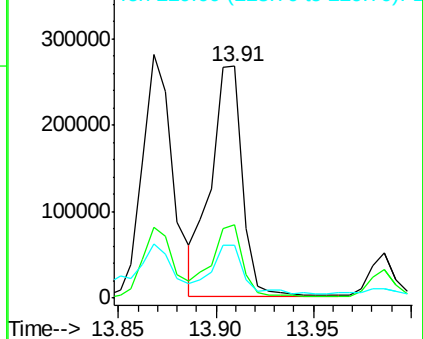
229 22.8 16.2 24.4

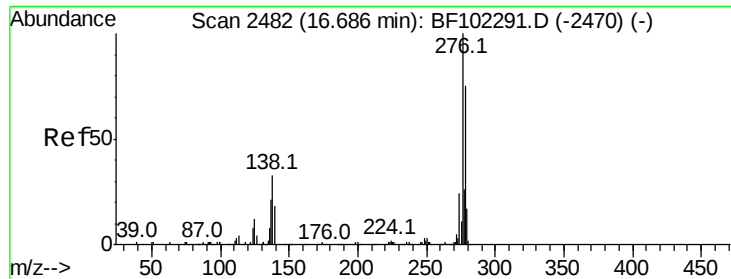


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

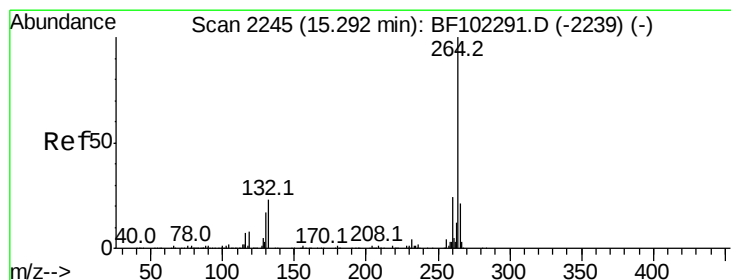
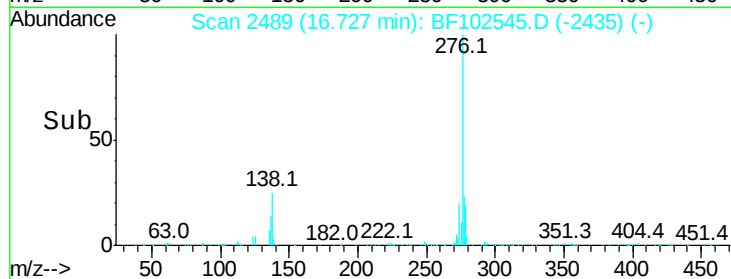
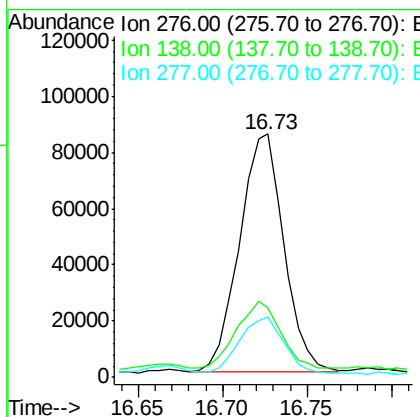
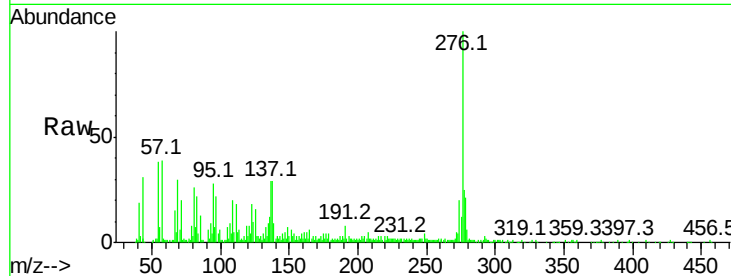




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.912 ng
 RT: 16.73 min Scan# 2489
 Delta R.T. 0.02 min
 Lab File: BF102545.D
 Acq: 28 Jan 2018 7:56

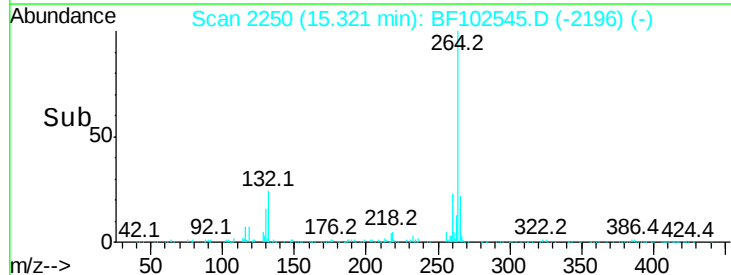
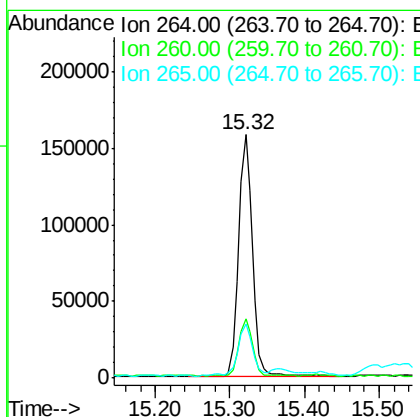
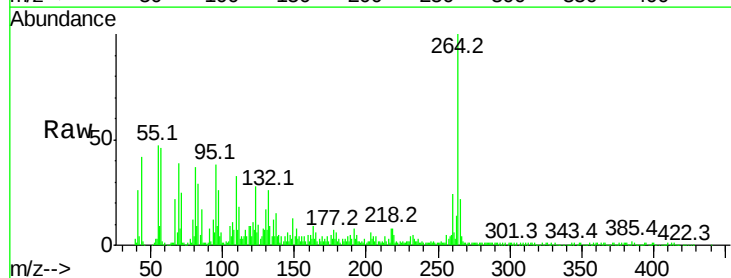
Instrument :
 BNA_F
 ClientSampleId :

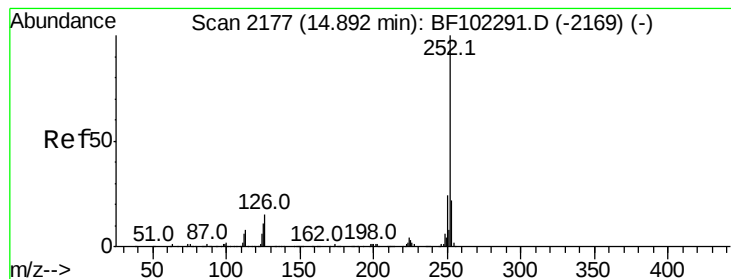
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.0	25.0	37.6
277	23.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.32 min Scan# 2250
 Delta R.T. 0.02 min
 Lab File: BF102545.D
 Acq: 28 Jan 2018 7:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 36.348 ng

RT: 14.91 min Scan# 2180

Delta R.T. 0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampleId :

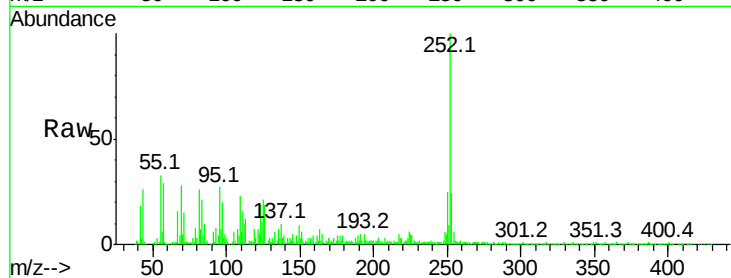
Tot Ion:252 Resp: 483951

Ion Ratio Lower Upper

252 100

253 24.3 17.0 25.6

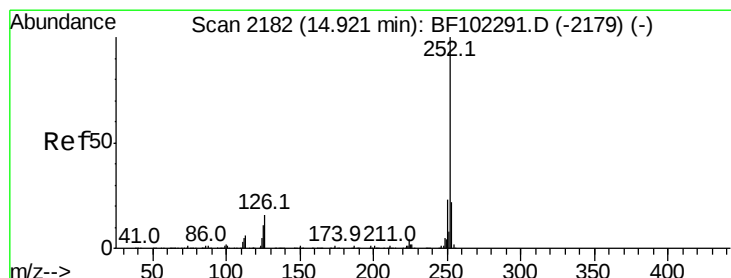
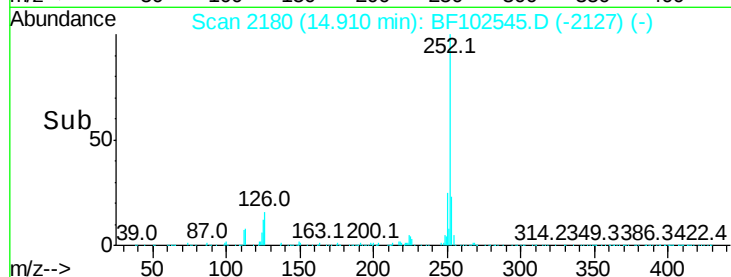
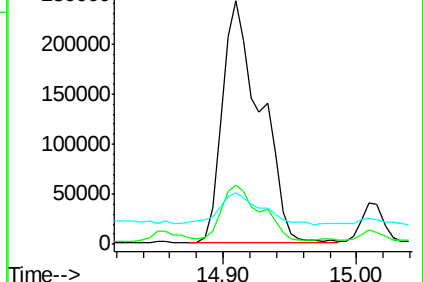
125 21.3 9.0 13.6#



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



#88

Benzo(k)fluoranthene

Concen: 38.472 ng

RT: 14.91 min Scan# 2180

Delta R.T. -0.02 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

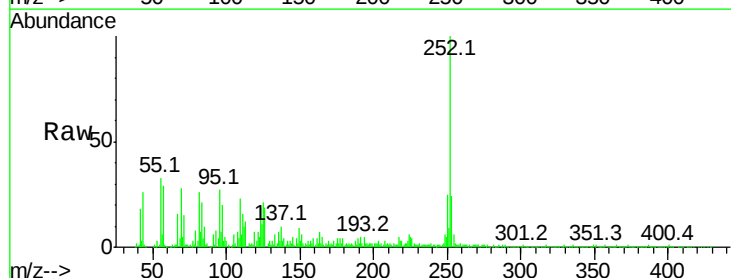
Tgt Ion:252 Resp: 483951

Ion Ratio Lower Upper

252 100

253 24.3 17.9 26.9

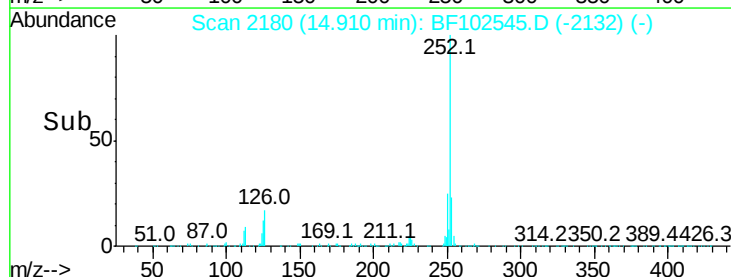
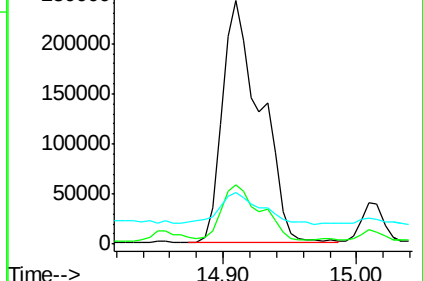
125 21.3 10.2 15.2#

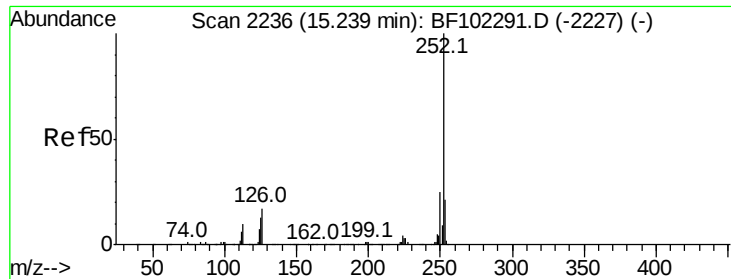


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 19.784 ng

RT: 15.26 min Scan# 2240

Delta R.T. 0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

Instrument :

BNA_F

ClientSampleId :

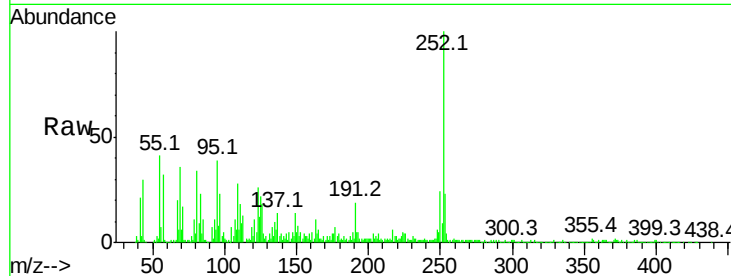
Tot Ion:252 Resp: 237566

Ion Ratio Lower Upper

252 100

253 23.5 17.1 25.7

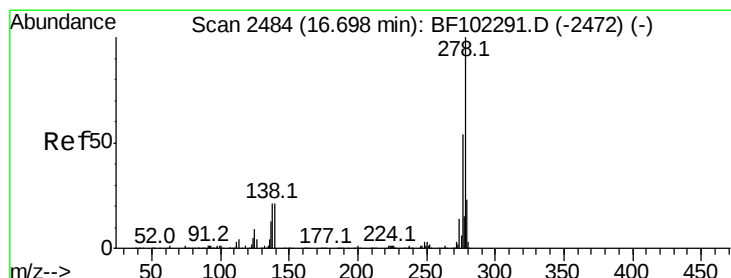
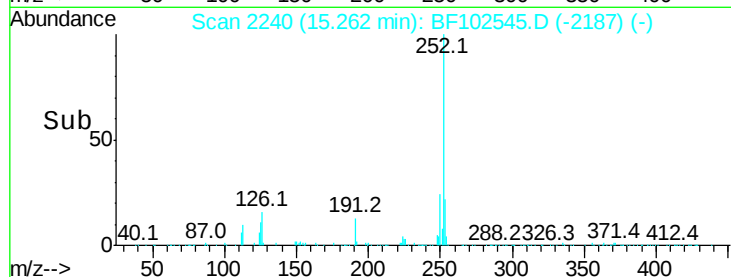
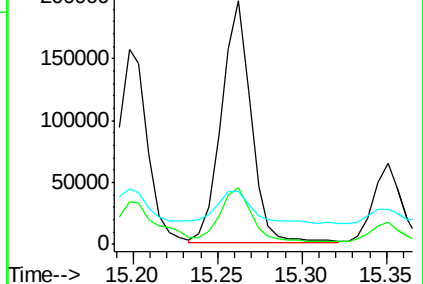
125 21.9 9.8 14.6#



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

Dibenzo(a,h)anthracene

Concen: 3.566 ng

RT: 16.73 min Scan# 2489

Delta R.T. 0.01 min

Lab File: BF102545.D

Acq: 28 Jan 2018 7:56

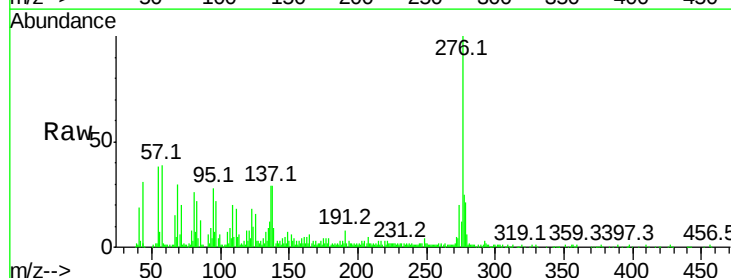
Tgt Ion:278 Resp: 34690

Ion Ratio Lower Upper

278 100

139 42.5 15.9 23.9#

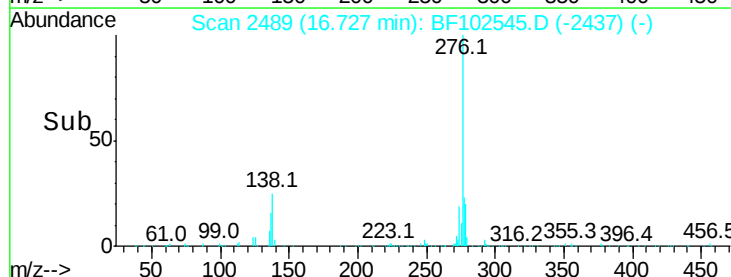
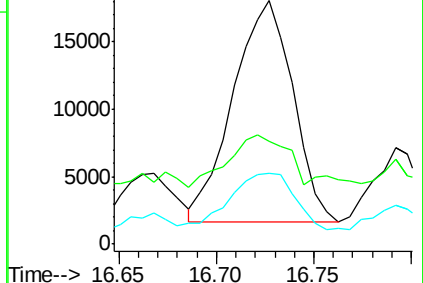
279 28.8 19.0 28.4#

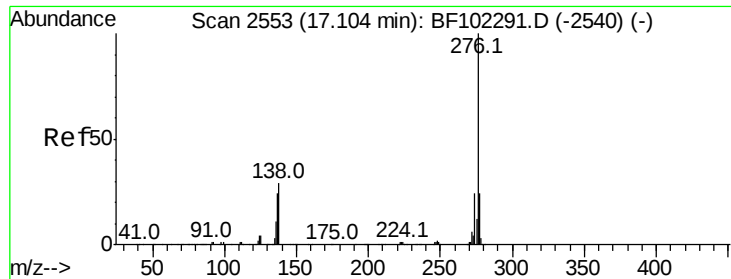


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

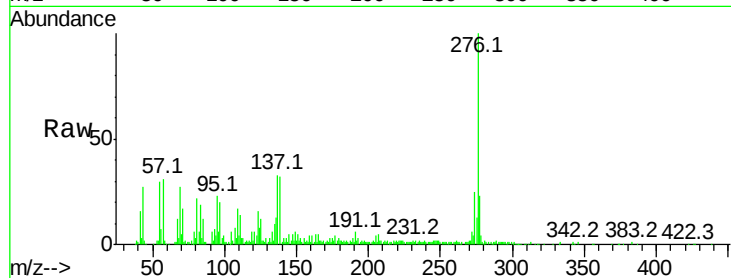




#91
 Benzo(a,h,i)perylene
 Concen: 16.841 ng
 RT: 17.14 min Scan# 2560
 Delta R.T. 0.01 min
 Lab File: BF102545.D
 Acq: 28 Jan 2018 7:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	17.9	26.9
138	32.5	21.8	32.8



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

