

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF082416\
 Data File : BF089906.D
 Acq On : 25 Aug 2016 6:51
 Operator : UM/SJ
 Sample : H4566-05 5X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

Quant Time: Aug 25 12:29:23 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	476955	20.00	ng	-0.01
21) Naphthalene-d8	7.95	136	1817125	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	799385	20.00	ng	-0.01
63) Phenanthrene-d10	11.19	188	1445786	20.00	ng	0.00
75) Chrysene-d12	13.87	240	953043	20.00	ng	0.00
86) Perylene-d12	15.39	264	1066513	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.23	112	662847	23.83	ng	-0.02
7) Phenol-d6	6.30	99	773132	22.65	ng	-0.02
23) Nitrobenzene-d5	7.23	82	457204	15.63	ng	-0.02
41) 2,4,6-Tribromophenol	10.49	330	173172	22.79	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	921039	20.25	ng	-0.01
78) Terphenyl-d14	12.78	244	648086	15.38	ng	-0.01

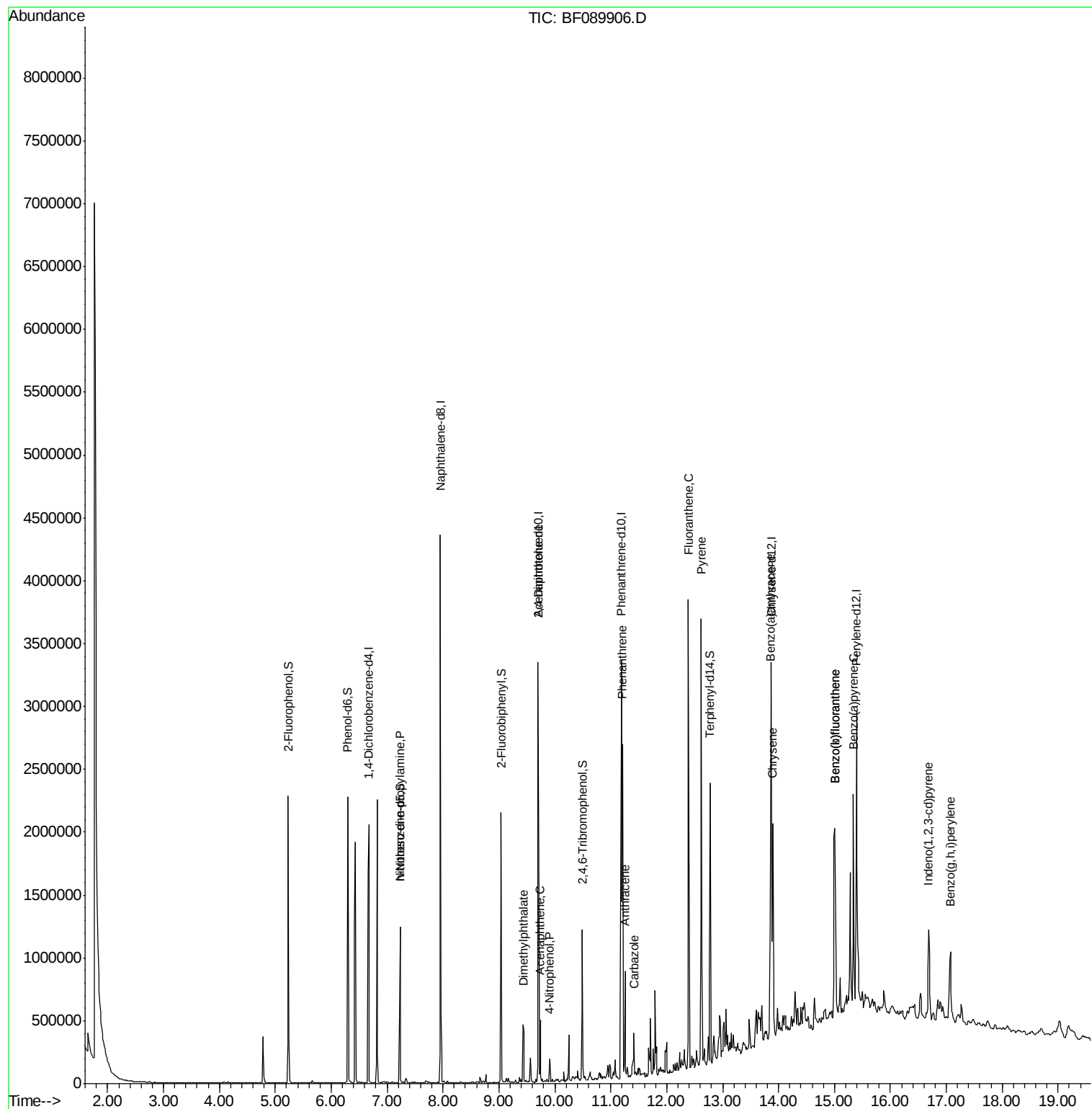
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	56014	2.57	ng	# 67
49) Dimethylphthalate	9.44	163	289189	5.14	ng	97
51) Acenaphthene	9.74	154	98898	2.03	ng	98
55) 4-Nitrophenol	9.91	139	24439	2.08	ng	# 17
56) 2,4-Dinitrotoluene	9.70	165	105093	6.23	ng	# 35
70) Phenanthrene	11.21	178	1207384	16.53	ng	99
71) Anthracene	11.26	178	315677	4.25	ng	97
72) Carbazole	11.42	167	157345	2.36	ng	# 96
74) Fluoranthene	12.39	202	1703568	24.53	ng	94
77) Pyrene	12.62	202	1428140	18.40	ng	98
80) Benzo(a)anthracene	13.86	228	742204	13.60	ng	100
82) Chrysene	13.90	228	555472	11.87	ng	97
85) Indeno(1,2,3-cd)pyrene	16.69	276	468001	7.84	ng	94
87) Benzo(b)fluoranthene	15.01	252	1333909	22.74	ng	98
88) Benzo(k)fluoranthene	15.01	252	1333909	25.06	ng	99
89) Benzo(a)pyrene	15.34	252	710363	12.79	ng	97
91) Benzo(g,h,i)perylene	17.07	276	440396	6.94	ng	96

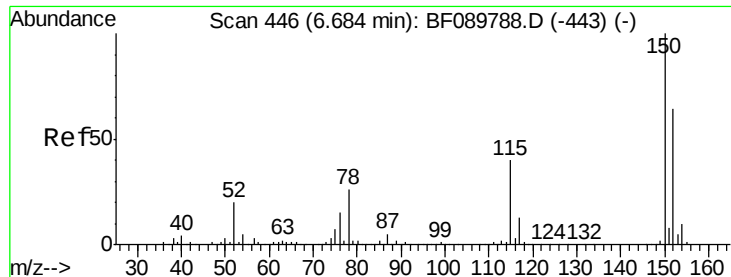
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF082416\
Data File : BF089906.D
Acq On : 25 Aug 2016 6:51
Operator : UM/SJ
Sample : H4566-05 5X
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

Quant Time: Aug 25 12:29:23 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 19 14:02:57 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

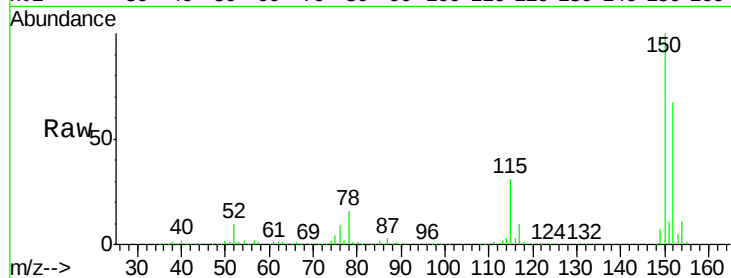
Tgt Ion:152 Resp: 476955

Ion Ratio Lower Upper

152 100

150 149.9 125.3 187.9

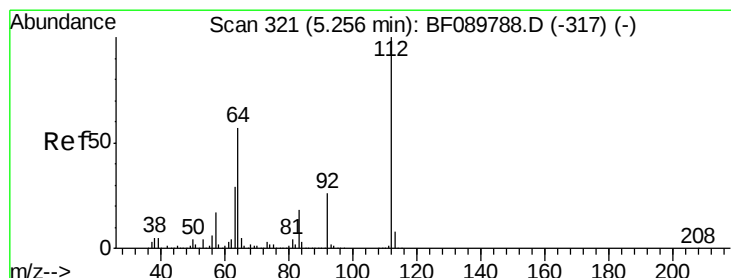
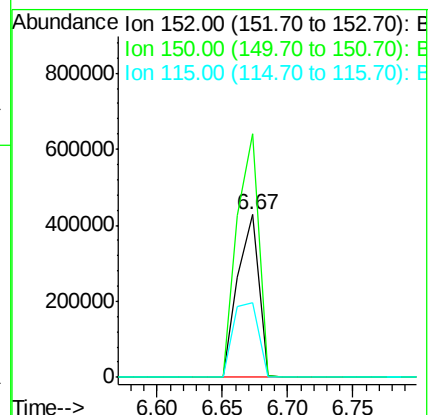
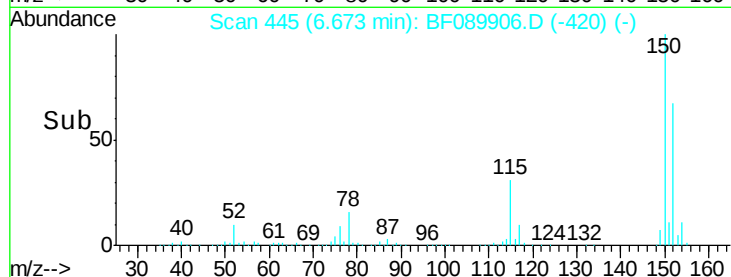
115 46.3 40.9 61.3



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: 23.83 ng

RT: 5.23 min Scan# 319

Delta R.T. -0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

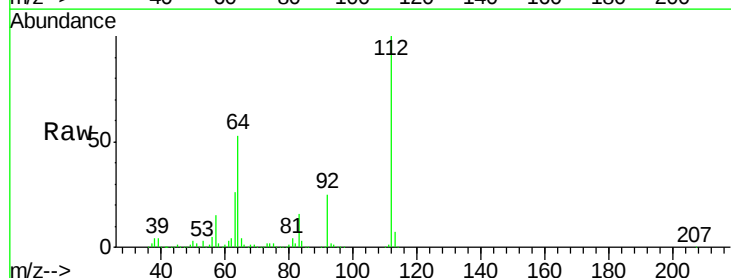
Tgt Ion:112 Resp: 662847

Ion Ratio Lower Upper

112 100

64 53.4 45.0 67.4

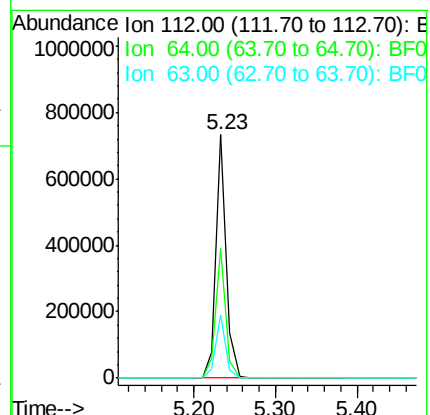
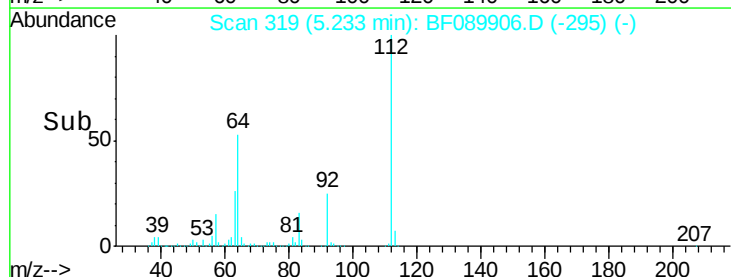
63 26.0 23.1 34.7



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 22.65 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

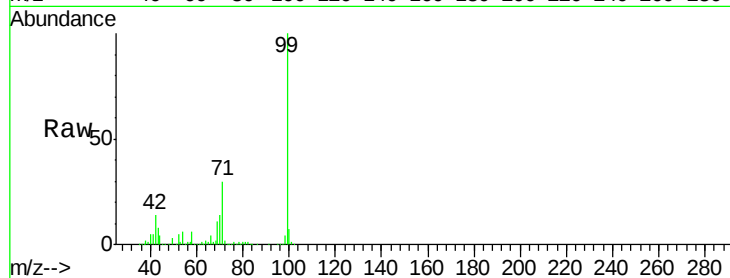
Tgt Ion: 99 Resp: 773132

Ion Ratio Lower Upper

99 100

42 14.3 12.2 18.4

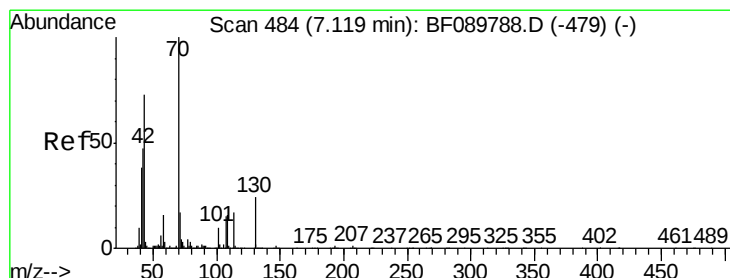
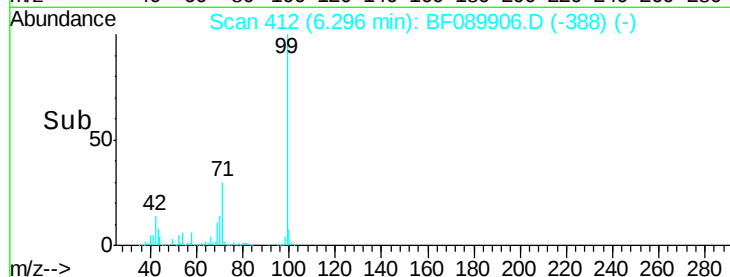
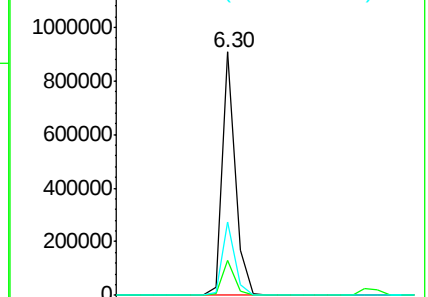
71 30.2 23.8 35.8



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 2.57 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.11 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Tgt Ion: 70 Resp: 56014

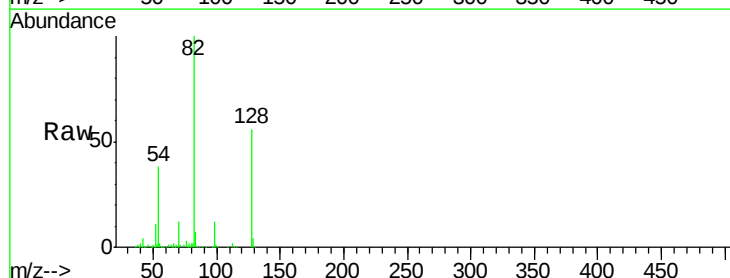
Ion Ratio Lower Upper

70 100

42 33.0 46.3 69.5#

101 0.0 7.0 10.6#

130 2.8 14.4 21.6#

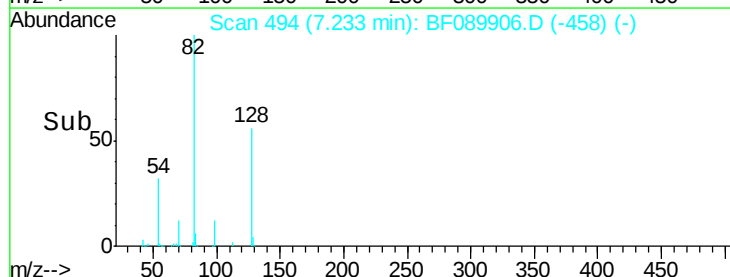
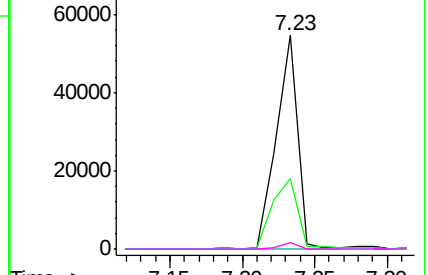


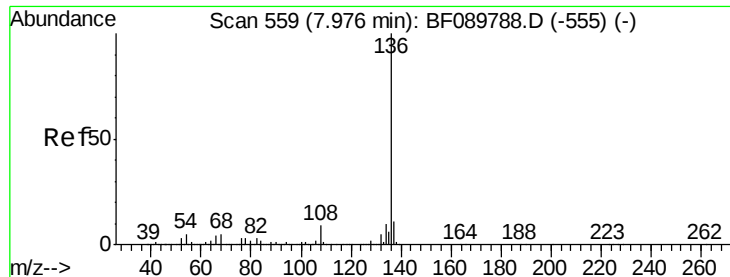
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

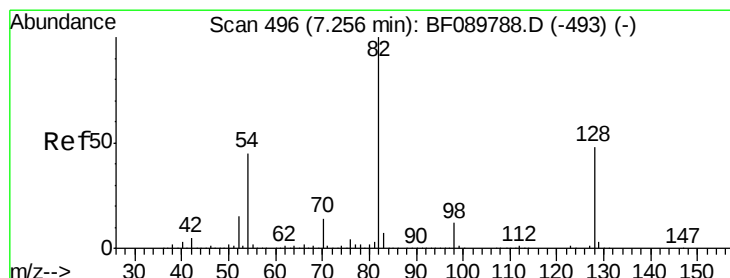
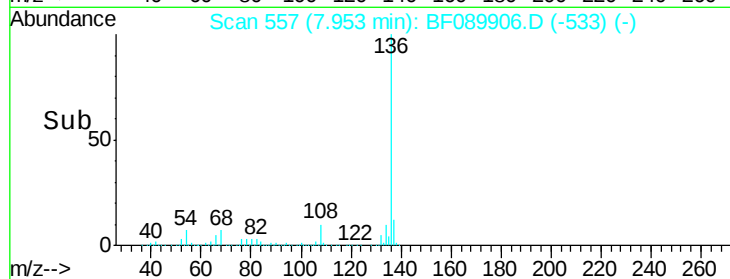
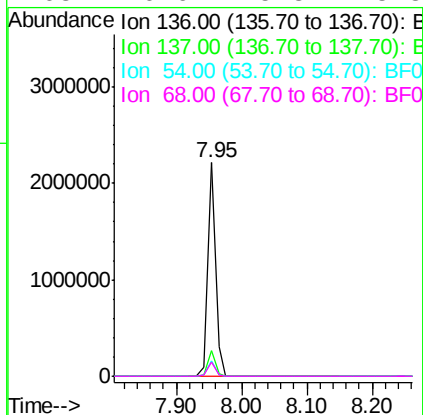
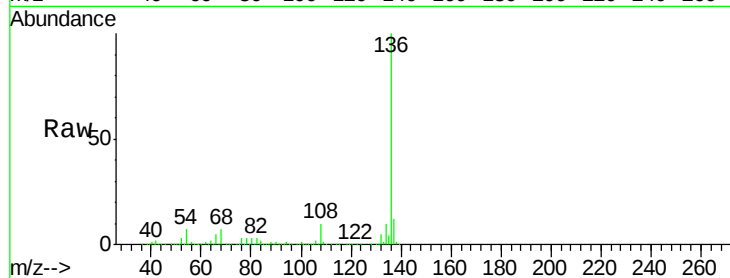




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.95 min Scan# 557
Delta R.T. -0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

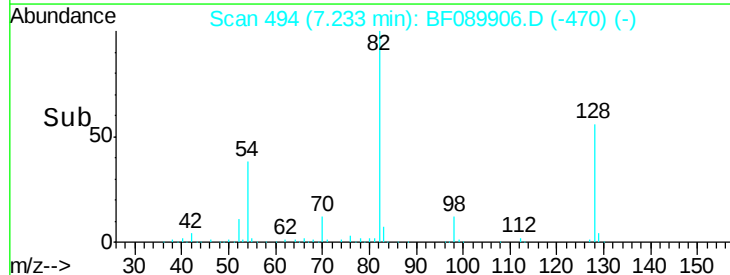
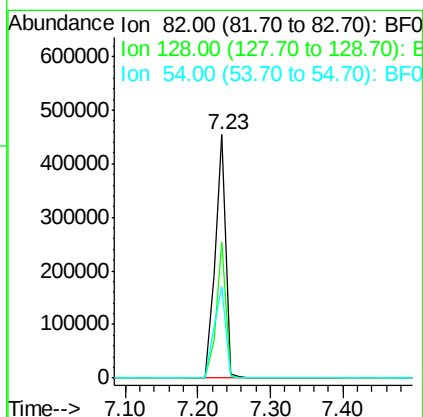
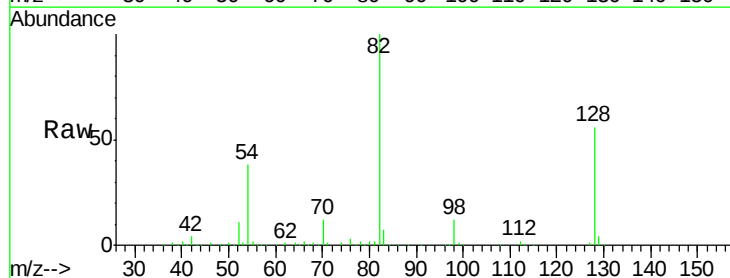
Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

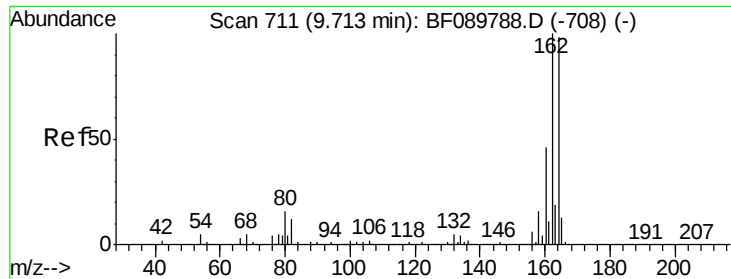
Tgt Ion:	136	Resp:	1817125
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.2	13.8
54	7.0	7.2	10.8#
68	6.6	5.8	8.8



#23
Nitrobenzene-d5
Concen: 15.63 ng
RT: 7.23 min Scan# 494
Delta R.T. -0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion:	82	Resp:	457204
Ion	Ratio	Lower	Upper
82	100		
128	55.9	34.4	51.6#
54	37.7	40.3	60.5#

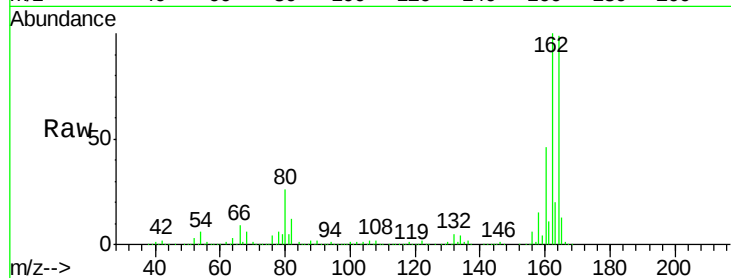




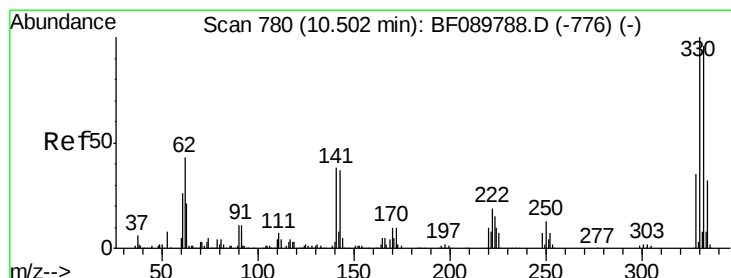
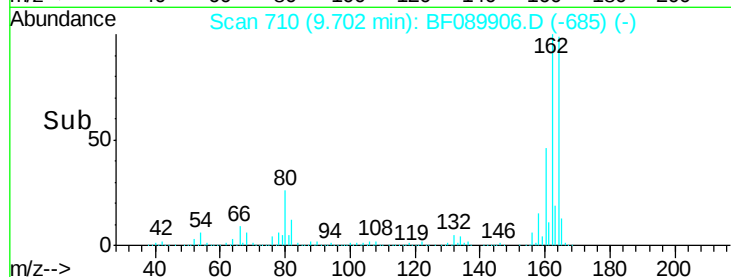
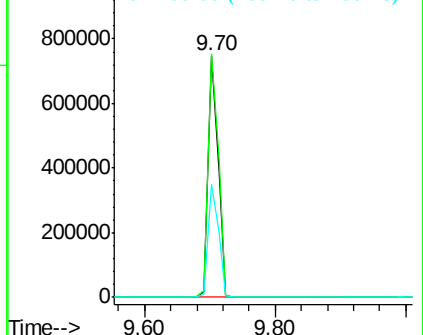
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

Tgt Ion:164 Resp: 799385
 Ion Ratio Lower Upper
 164 100
 162 100.9 81.4 122.2
 160 46.7 37.8 56.6

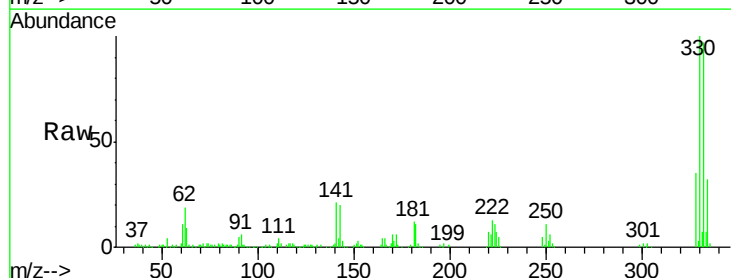


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

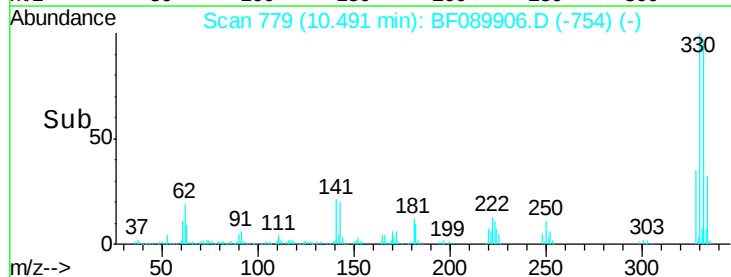
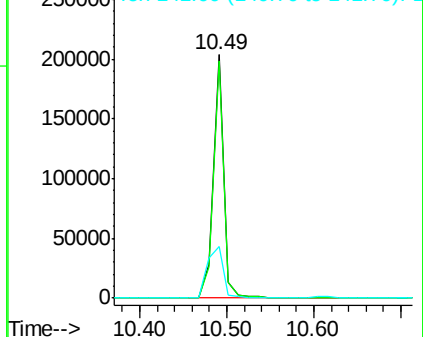


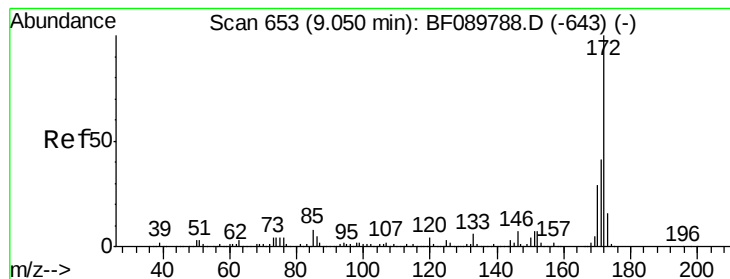
#41
 2,4,6-Tribromophenol
 Concen: 22.79 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Tgt Ion:330 Resp: 173172
 Ion Ratio Lower Upper
 330 100
 332 96.4 76.7 115.1
 141 33.4 30.2 45.2



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: 20.25 ng

RT: 9.04 min Scan# 652

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampled :

WC2-E-5-02

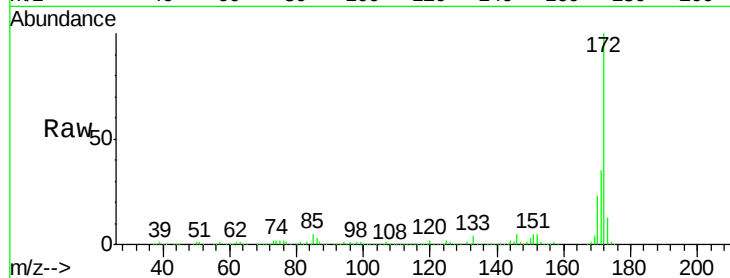
Tgt Ion:172 Resp: 921039

Ion Ratio Lower Upper

172 100

171 35.2 30.5 45.7

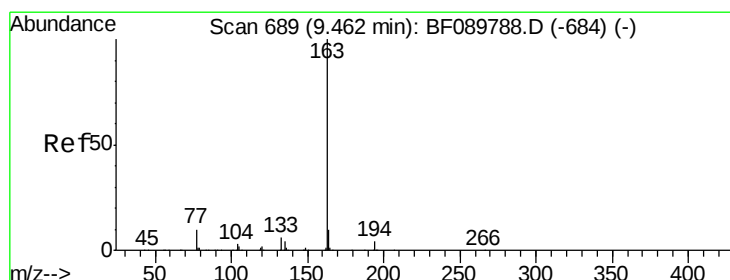
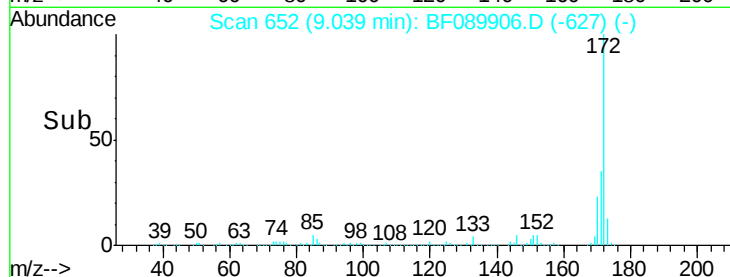
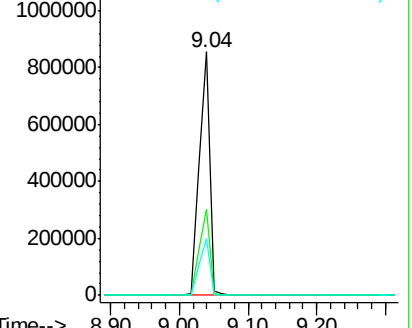
170 23.3 20.6 31.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 5.14 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

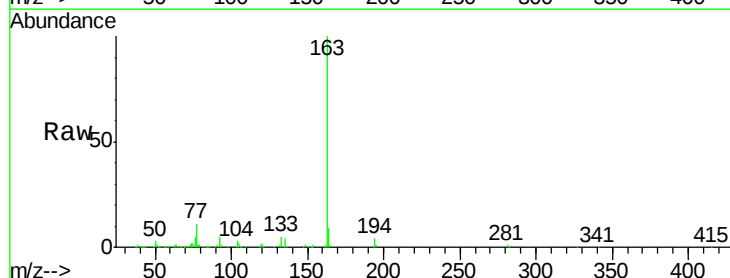
Tgt Ion:163 Resp: 289189

Ion Ratio Lower Upper

163 100

194 3.8 2.6 3.8

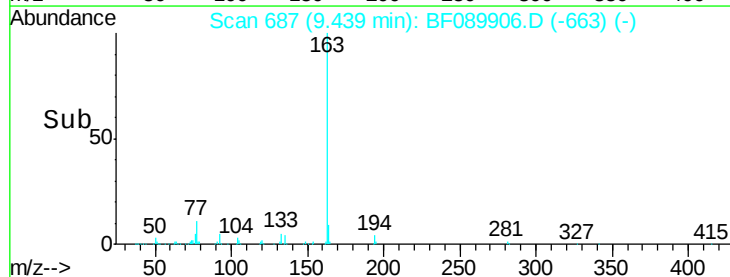
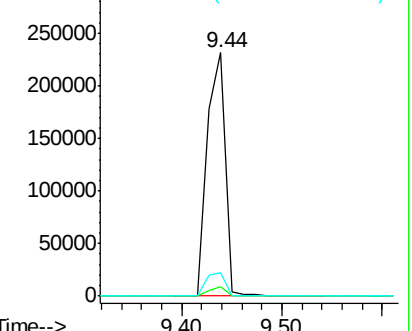
164 9.4 8.6 12.8

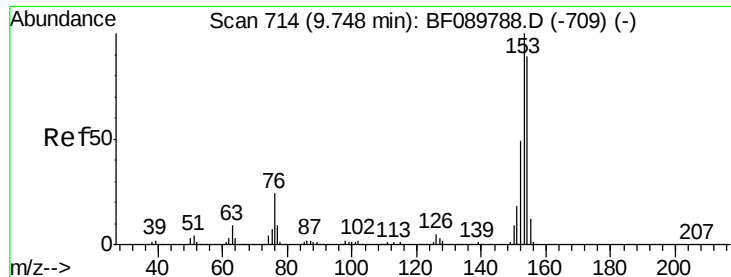


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.03 ng

RT: 9.74 min Scan# 713

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

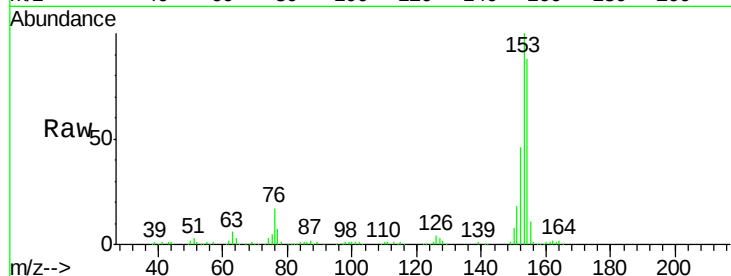
Tgt Ion:154 Resp: 98898

Ion Ratio Lower Upper

154 100

153 113.4 90.5 135.7

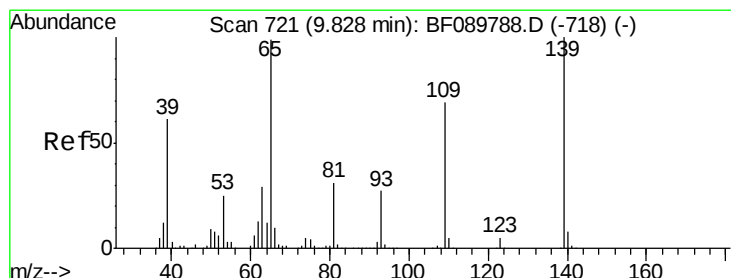
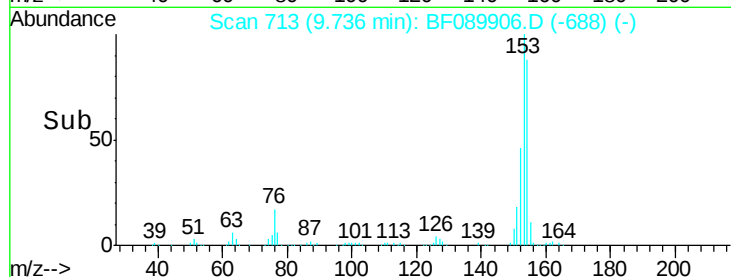
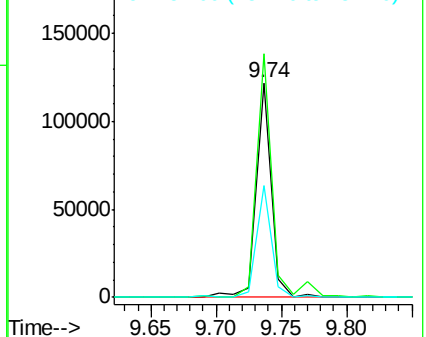
152 52.2 44.6 67.0



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



#55

4-Nitrophenol

Concen: 2.08 ng

RT: 9.91 min Scan# 728

Delta R.T. 0.08 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

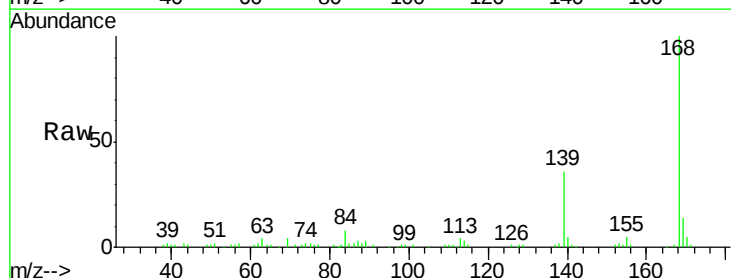
Tgt Ion:139 Resp: 24439

Ion Ratio Lower Upper

139 100

109 2.0 43.0 83.0#

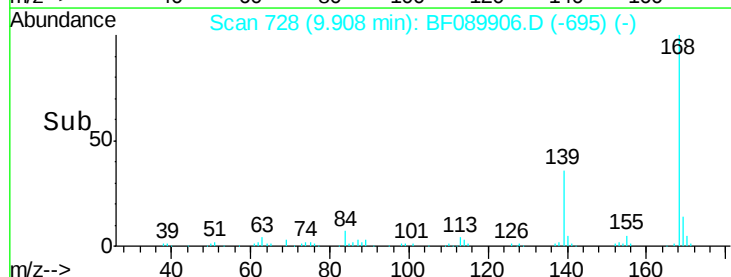
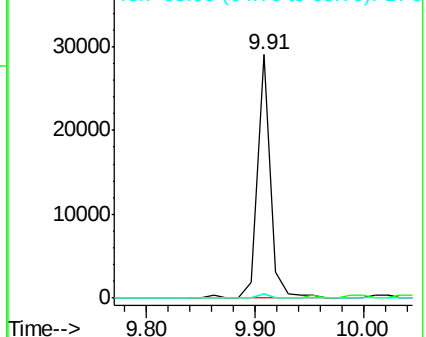
65 1.6 55.7 95.7#

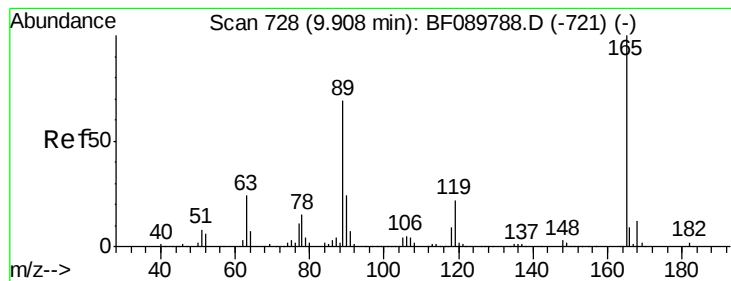


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.23 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.21 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

Tgt Ion:165 Resp: 105093

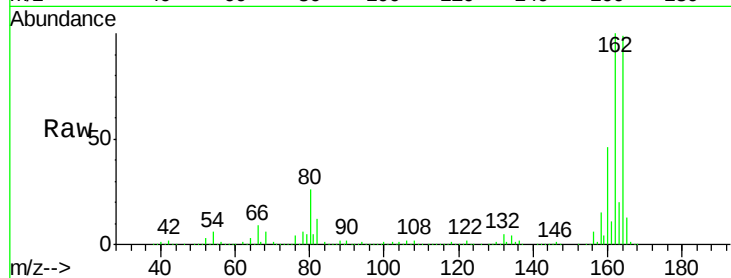
Ion Ratio Lower Upper

165 100

63 1.0 23.7 35.5#

89 1.2 44.0 66.0#

182 0.0 2.0 3.0#

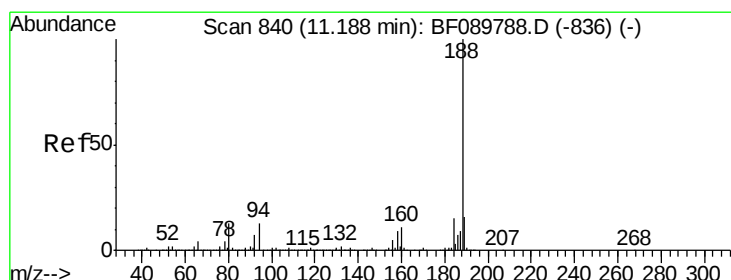
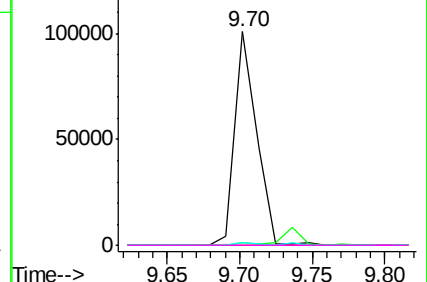
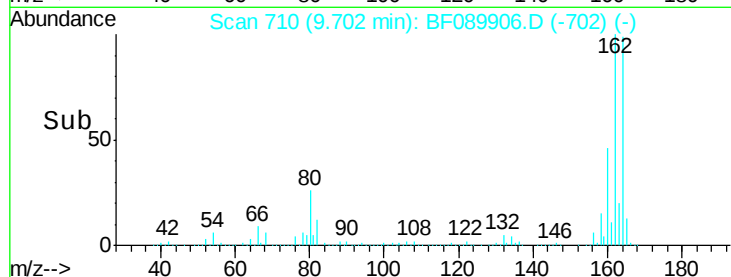


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.00 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

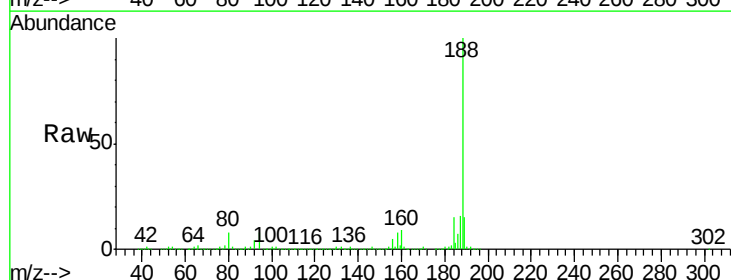
Tgt Ion:188 Resp: 1445786

Ion Ratio Lower Upper

188 100

94 7.7 10.2 15.2#

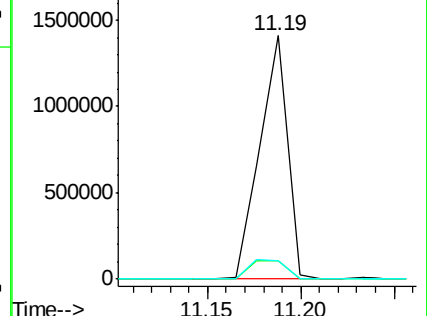
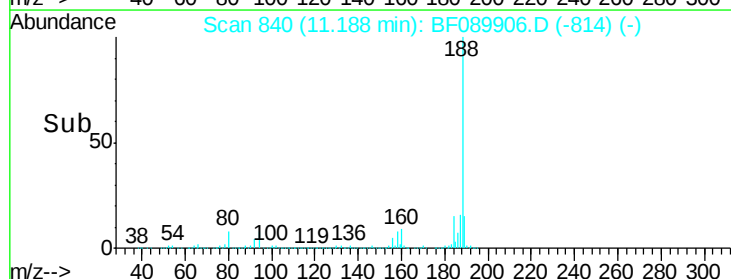
80 7.6 10.9 16.3#

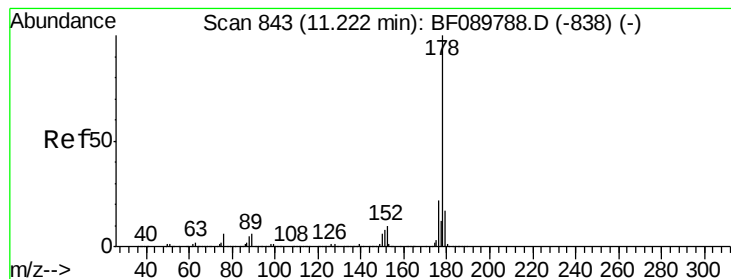


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 16.53 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

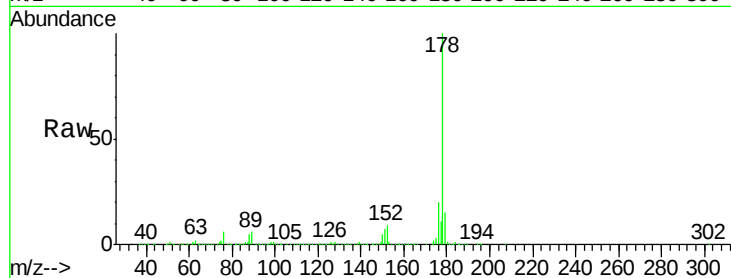
Tgt Ion:178 Resp: 1207384

Ion Ratio Lower Upper

178 100

176 19.8 16.4 24.6

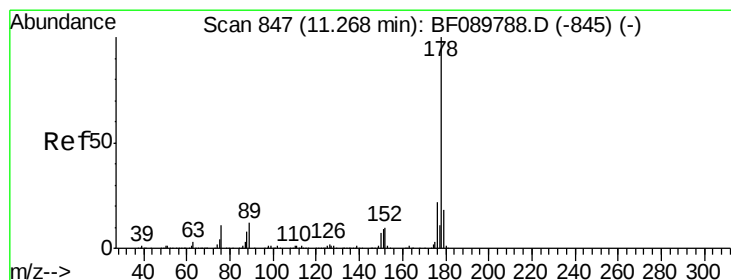
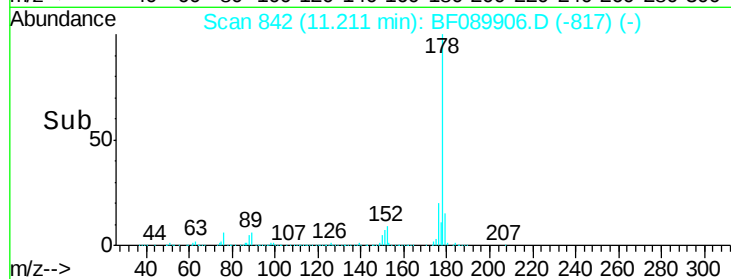
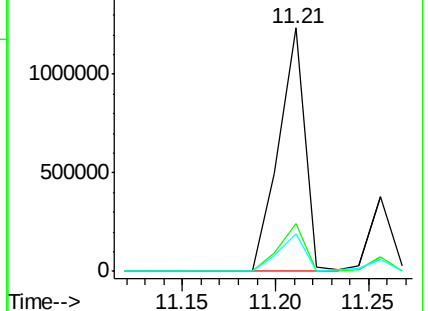
179 15.5 12.5 18.7



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



#71

Anthracene

Concen: 4.25 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

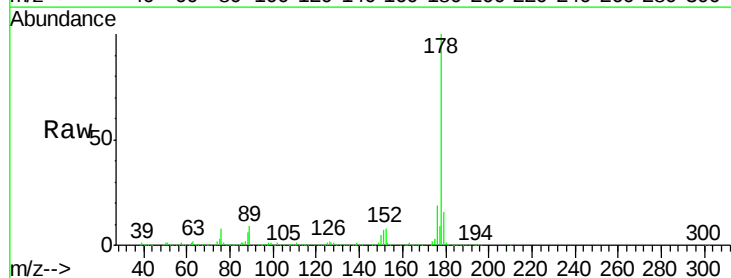
Tgt Ion:178 Resp: 315677

Ion Ratio Lower Upper

178 100

176 18.5 16.4 24.6

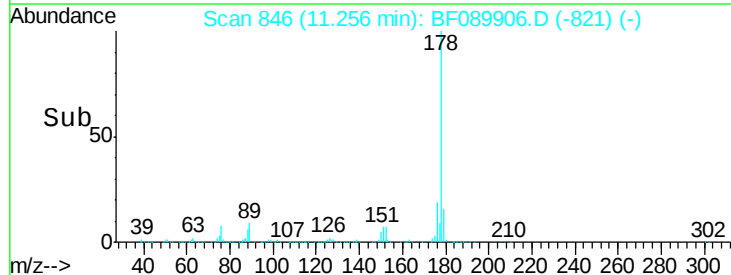
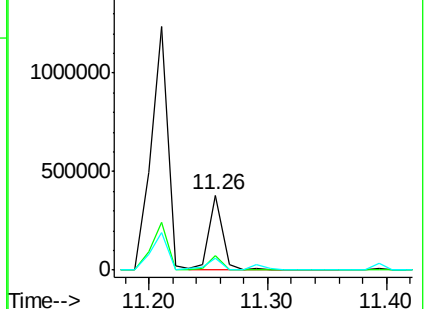
179 15.6 13.1 19.7

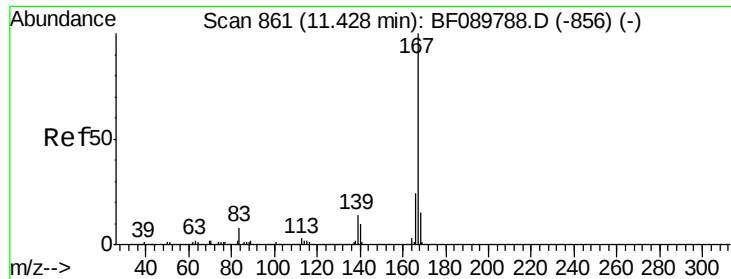


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

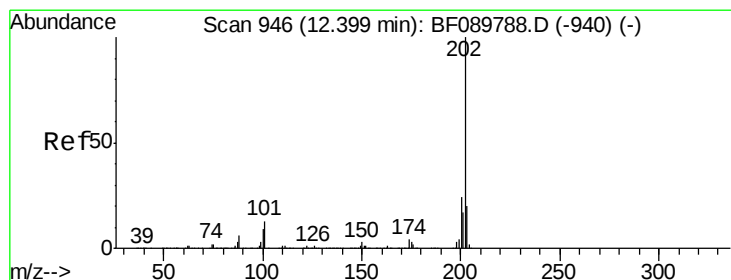
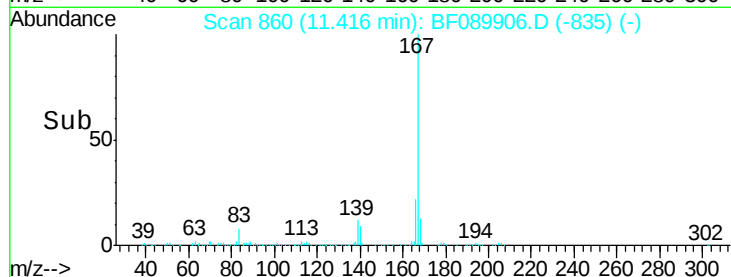
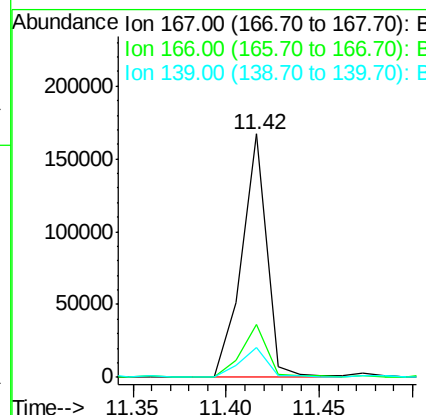
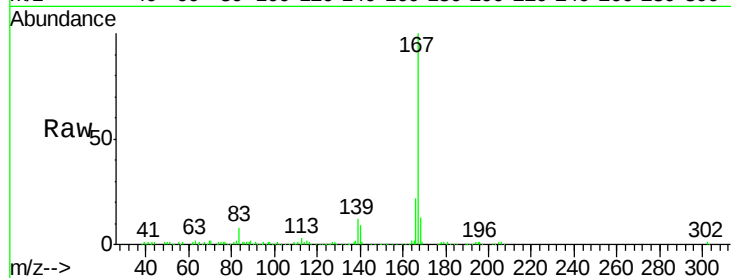




#72
 Carbazole
 Concen: 2.36 ng
 RT: 11.42 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

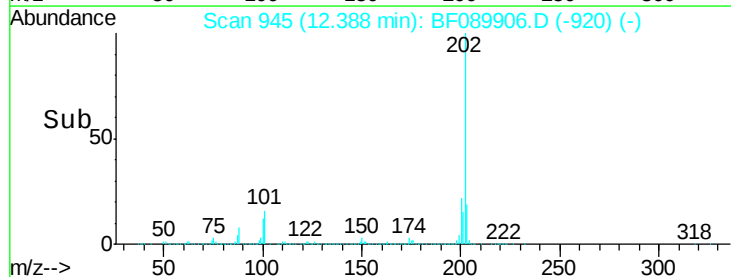
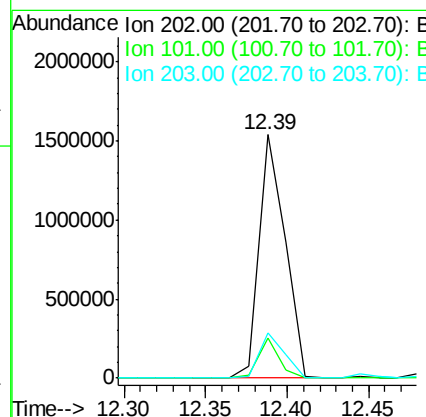
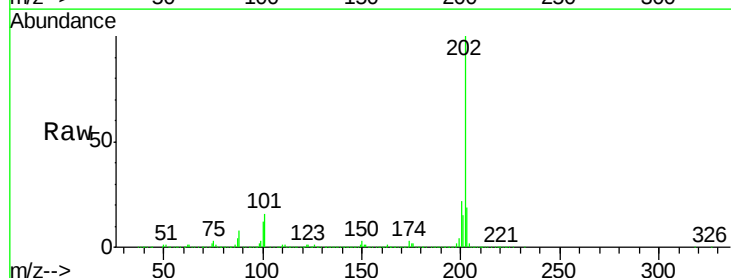
Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

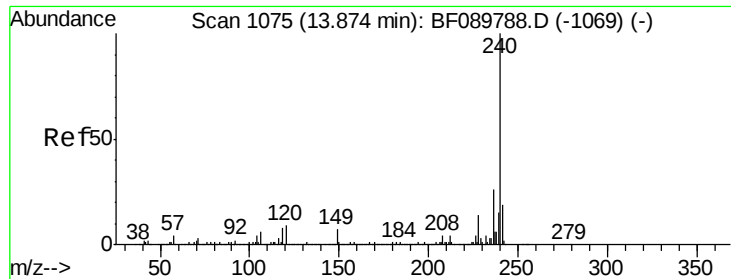
Tgt Ion:167 Resp: 157345
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.9 26.9
 139 12.0 12.4 18.6#



#74
 Fluoranthene
 Concen: 24.53 ng
 RT: 12.39 min Scan# 945
 Delta R.T. -0.01 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Tgt Ion:202 Resp: 1703568
 Ion Ratio Lower Upper
 202 100
 101 16.3 0.0 31.2
 203 18.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.87 min Scan# 1075

Delta R.T. -0.00 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

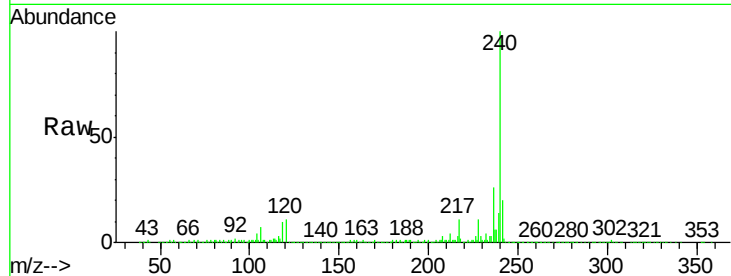
Tgt Ion:240 Resp: 953043

Ion Ratio Lower Upper

240 100

120 11.3 8.3 12.5

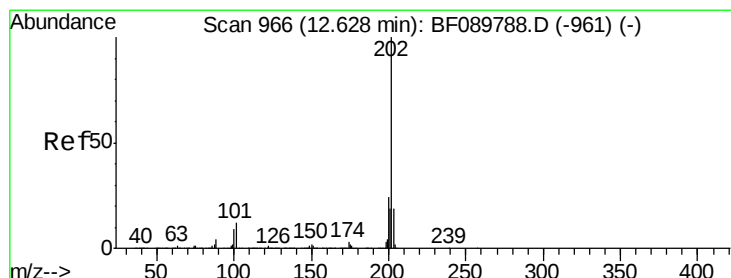
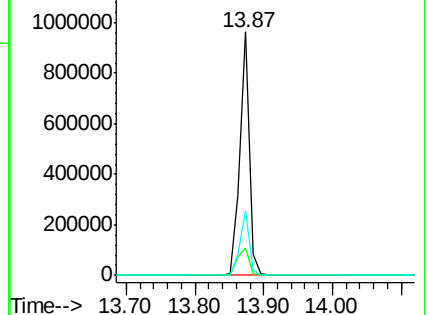
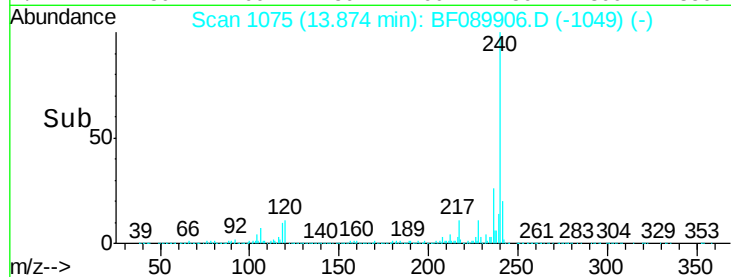
236 26.2 21.3 31.9



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



#77

Pyrene

Concen: 18.40 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

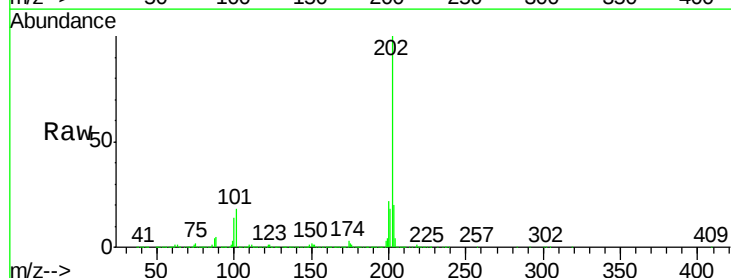
Tgt Ion:202 Resp: 1428140

Ion Ratio Lower Upper

202 100

200 21.9 17.8 26.6

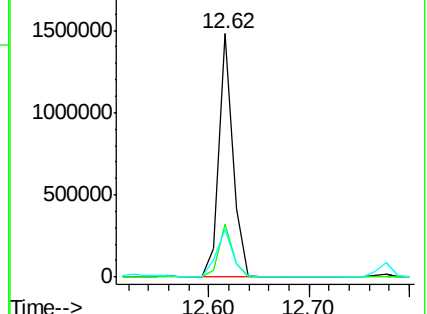
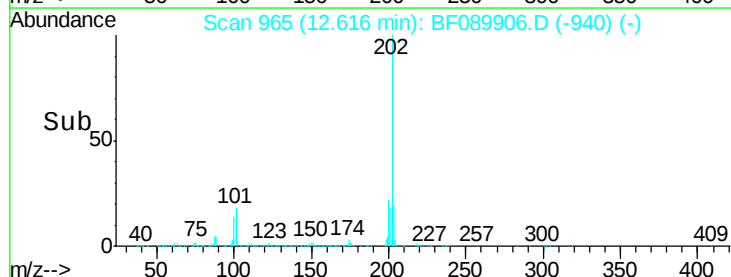
203 19.7 14.2 21.4

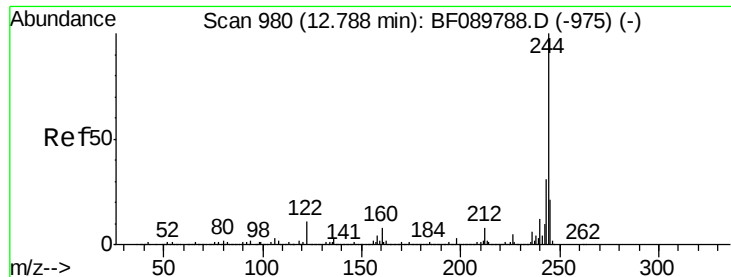


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 15.38 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

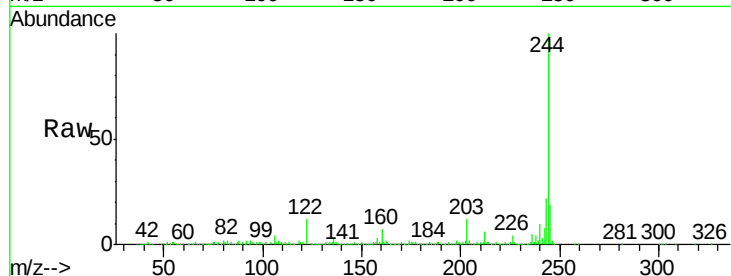
Tgt Ion:244 Resp: 648086

Ion Ratio Lower Upper

244 100

212 6.5 6.3 9.5

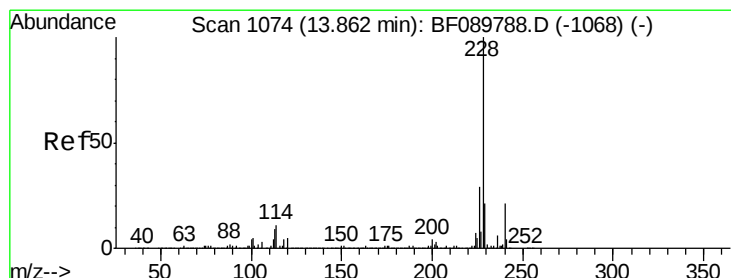
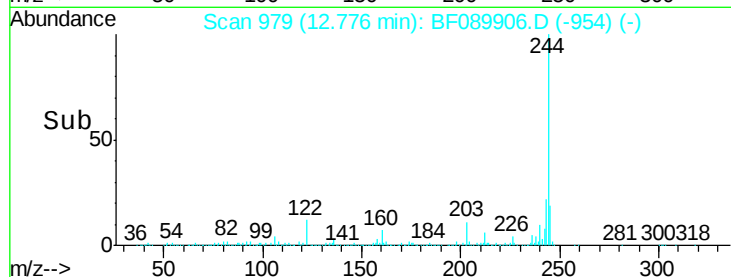
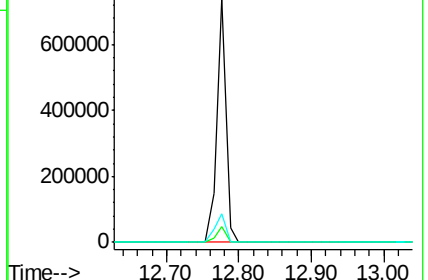
122 11.8 12.0 18.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 13.60 ng

RT: 13.86 min Scan# 1074

Delta R.T. -0.00 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

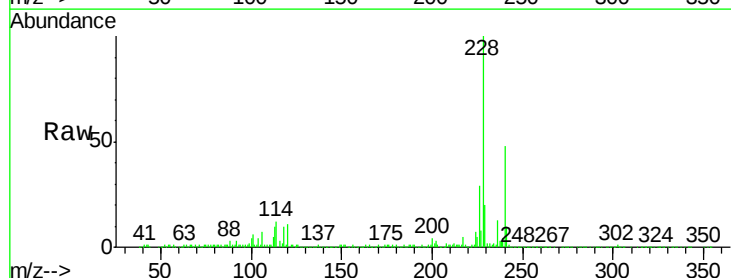
Tgt Ion:228 Resp: 742204

Ion Ratio Lower Upper

228 100

226 29.2 23.2 34.8

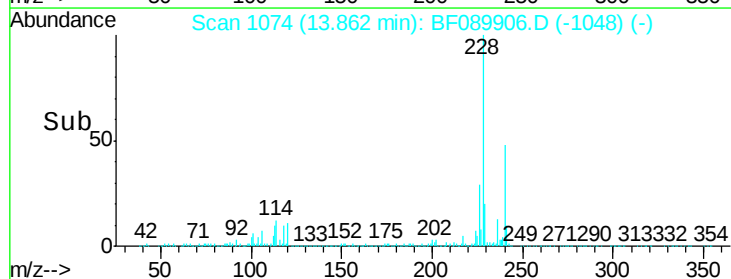
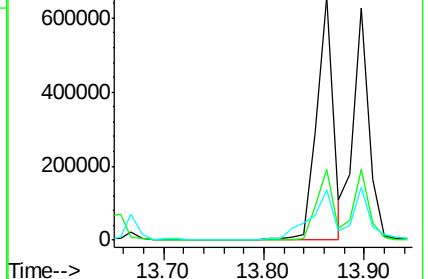
229 20.5 16.2 24.4

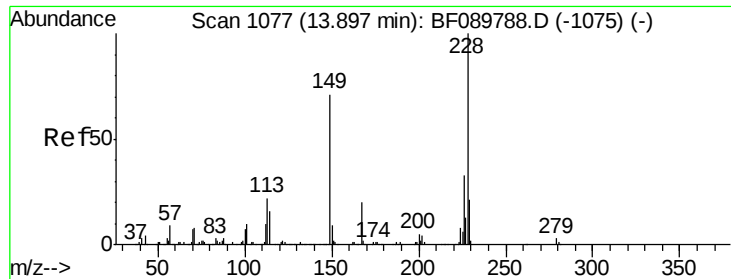


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.87 ng

RT: 13.90 min Scan# 1077

Delta R.T. 0.00 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

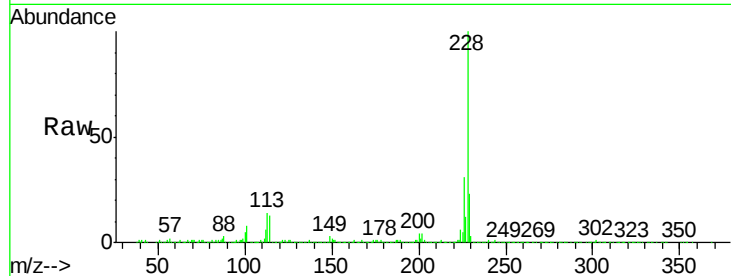
Tgt Ion: 228 Resp: 555472

Ion Ratio Lower Upper

228 100

226 30.6 25.4 38.0

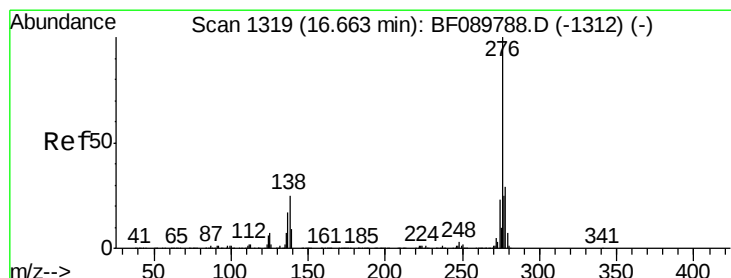
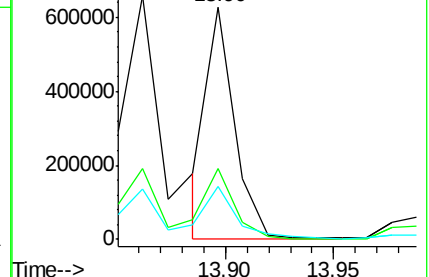
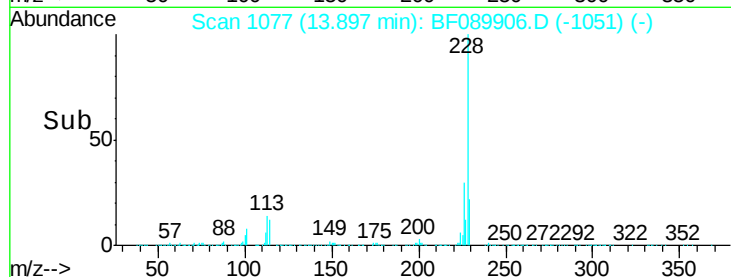
229 22.8 16.5 24.7



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: 7.84 ng

RT: 16.69 min Scan# 1321

Delta R.T. 0.02 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

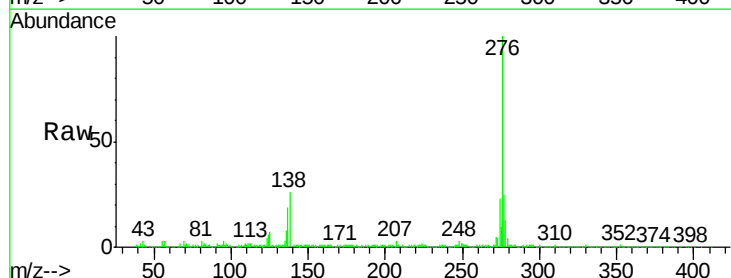
Tgt Ion: 276 Resp: 468001

Ion Ratio Lower Upper

276 100

138 26.3 24.6 36.8

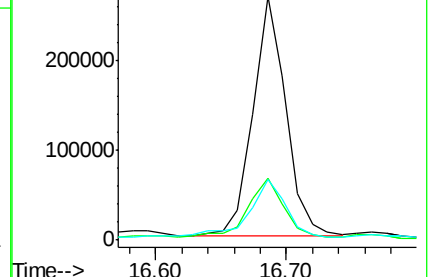
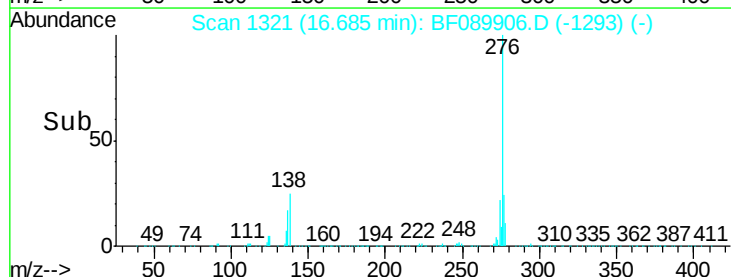
277 27.8 20.4 30.6

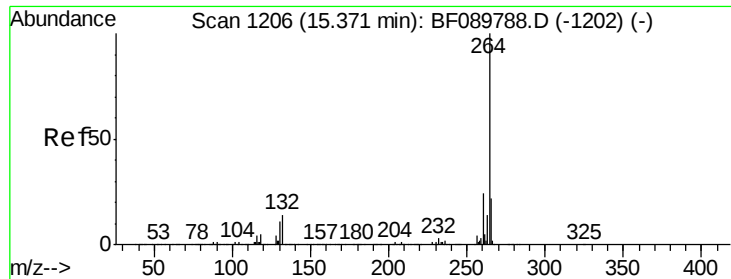


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



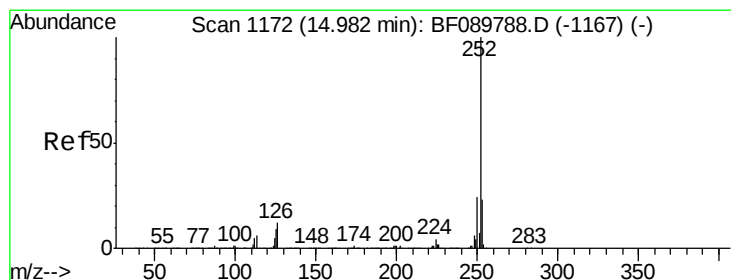
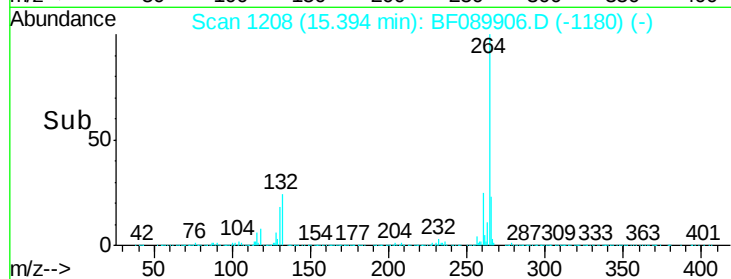
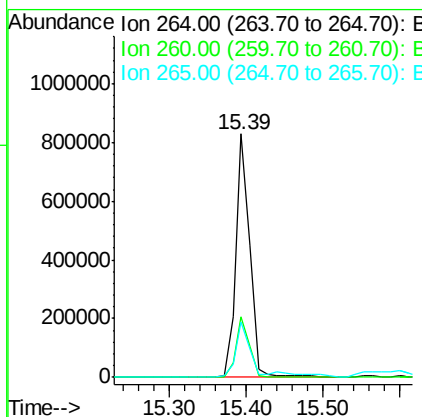
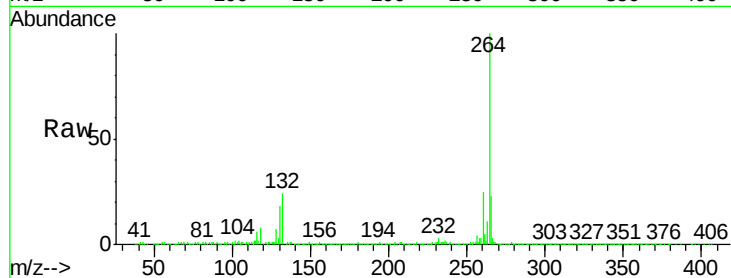


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1208
Delta R.T. 0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Instrument :
BNA_F
ClientSampleId :
WC2-E-5-02

Tgt Ion:264 Resp: 1066513

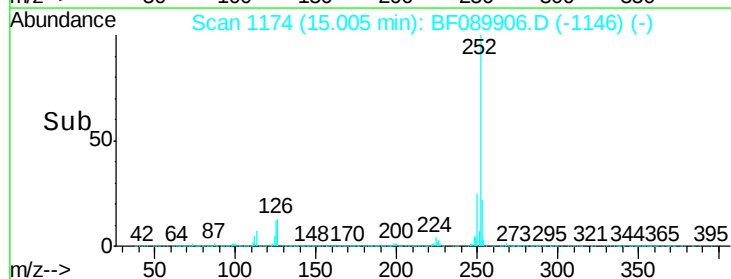
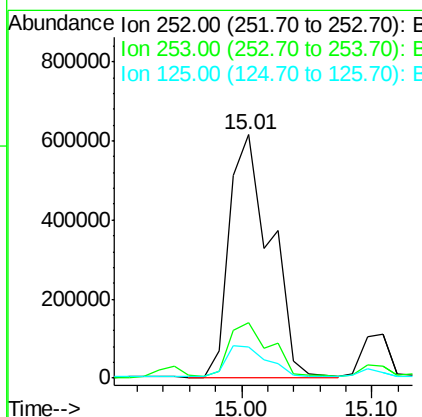
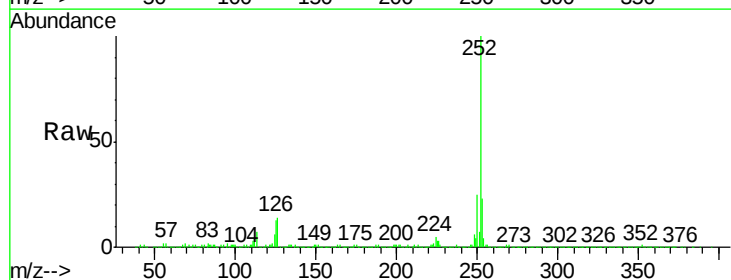
Ion	Ratio	Lower	Upper
264	100		
260	24.6	20.2	30.2
265	23.0	17.4	26.2

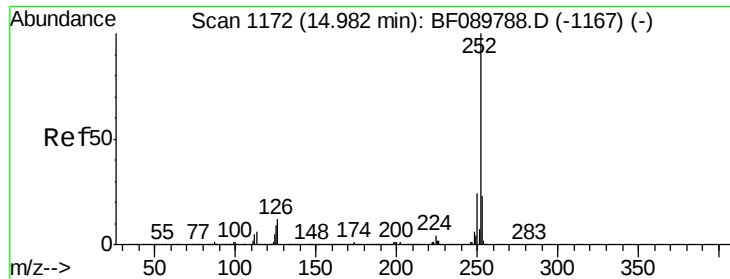


#87
Benzo(b)fluoranthene
Concen: 22.74 ng
RT: 15.01 min Scan# 1174
Delta R.T. 0.02 min
Lab File: BF089906.D
Acq: 25 Aug 2016 6:51

Tgt Ion:252 Resp: 1333909

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	12.9	11.4	17.2

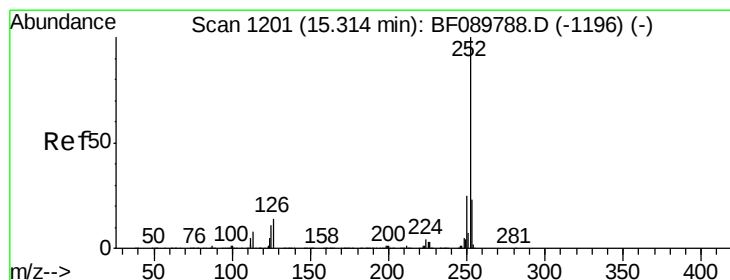
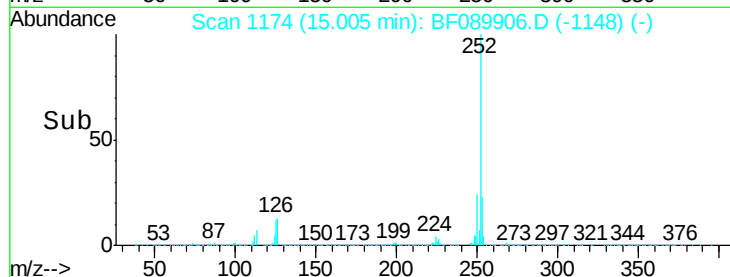
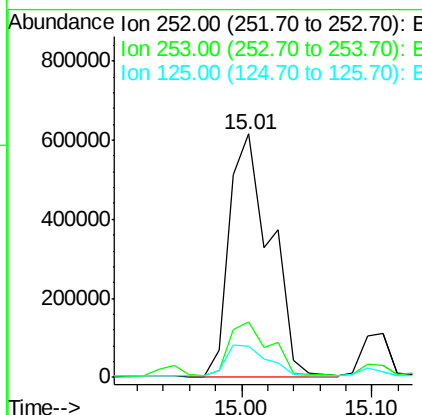
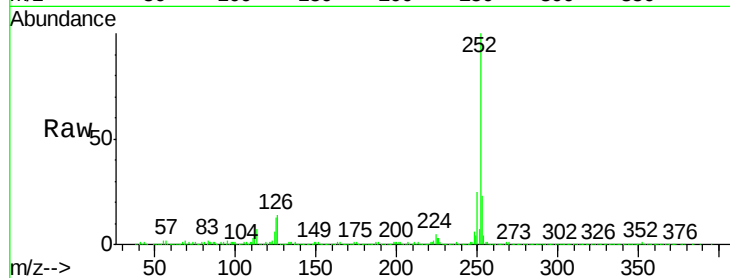




#88
 Benzo(k)fluoranthene
 Concen: 25.06 ng
 RT: 15.01 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

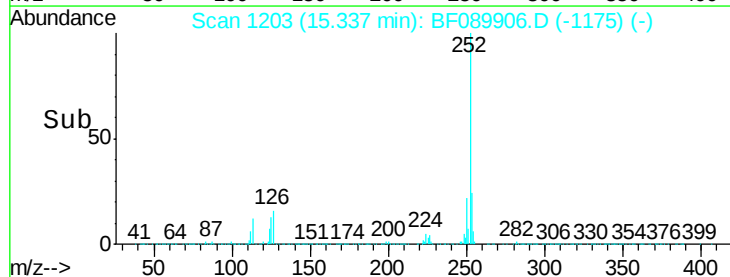
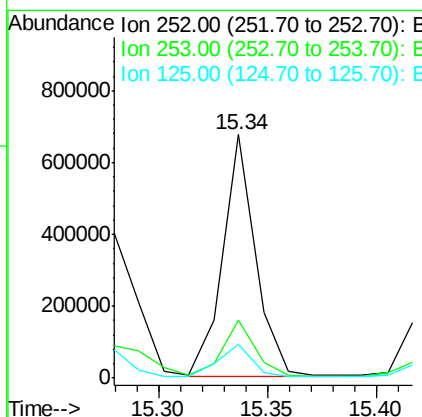
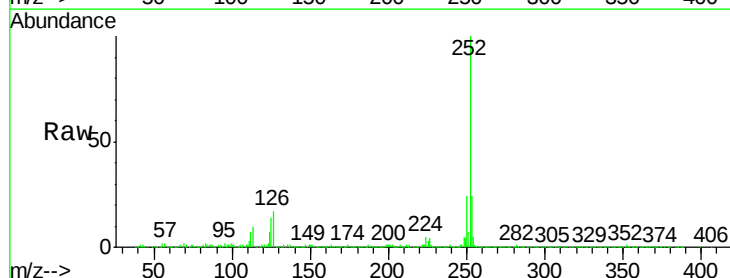
Instrument :
 BNA_F
 ClientSampleId :
 WC2-E-5-02

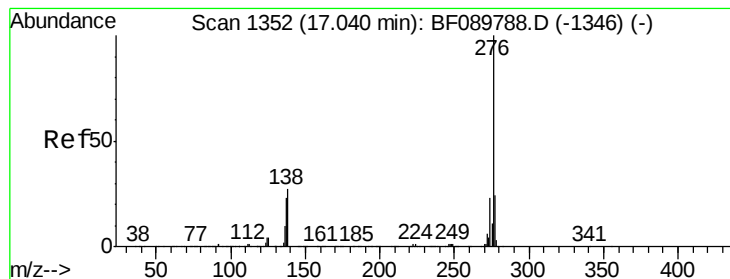
Tgt Ion:252 Resp: 1333909
 Ion Ratio Lower Upper
 252 100
 253 22.9 18.4 27.6
 125 12.9 9.8 14.6



#89
 Benzo(a)pyrene
 Concen: 12.79 ng
 RT: 15.34 min Scan# 1203
 Delta R.T. 0.02 min
 Lab File: BF089906.D
 Acq: 25 Aug 2016 6:51

Tgt Ion:252 Resp: 710363
 Ion Ratio Lower Upper
 252 100
 253 23.6 17.8 26.8
 125 13.7 11.7 17.5





#91

Benzo(g,h,i)perylene

Concen: 6.94 ng

RT: 17.07 min Scan# 1355

Delta R.T. 0.03 min

Lab File: BF089906.D

Acq: 25 Aug 2016 6:51

Instrument :

BNA_F

ClientSampleId :

WC2-E-5-02

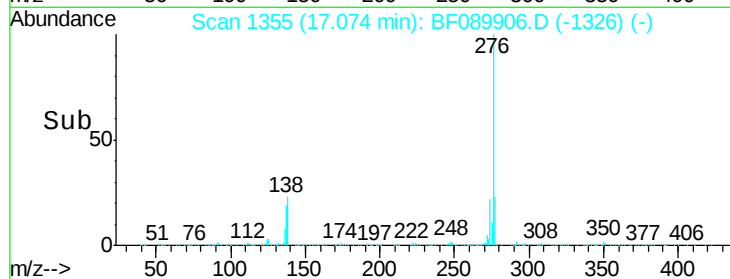
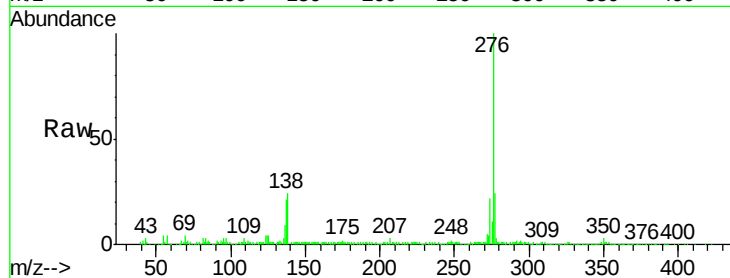
Tgt Ion: 276 Resp: 440396

Ion Ratio Lower Upper

276 100

277 23.9 19.2 28.8

138 23.5 22.1 33.1



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

