

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071516\
 Data File : BF089040.D
 Acq On : 16 Jul 2016 4:34
 Operator : UM/SJ
 Sample : H4048-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

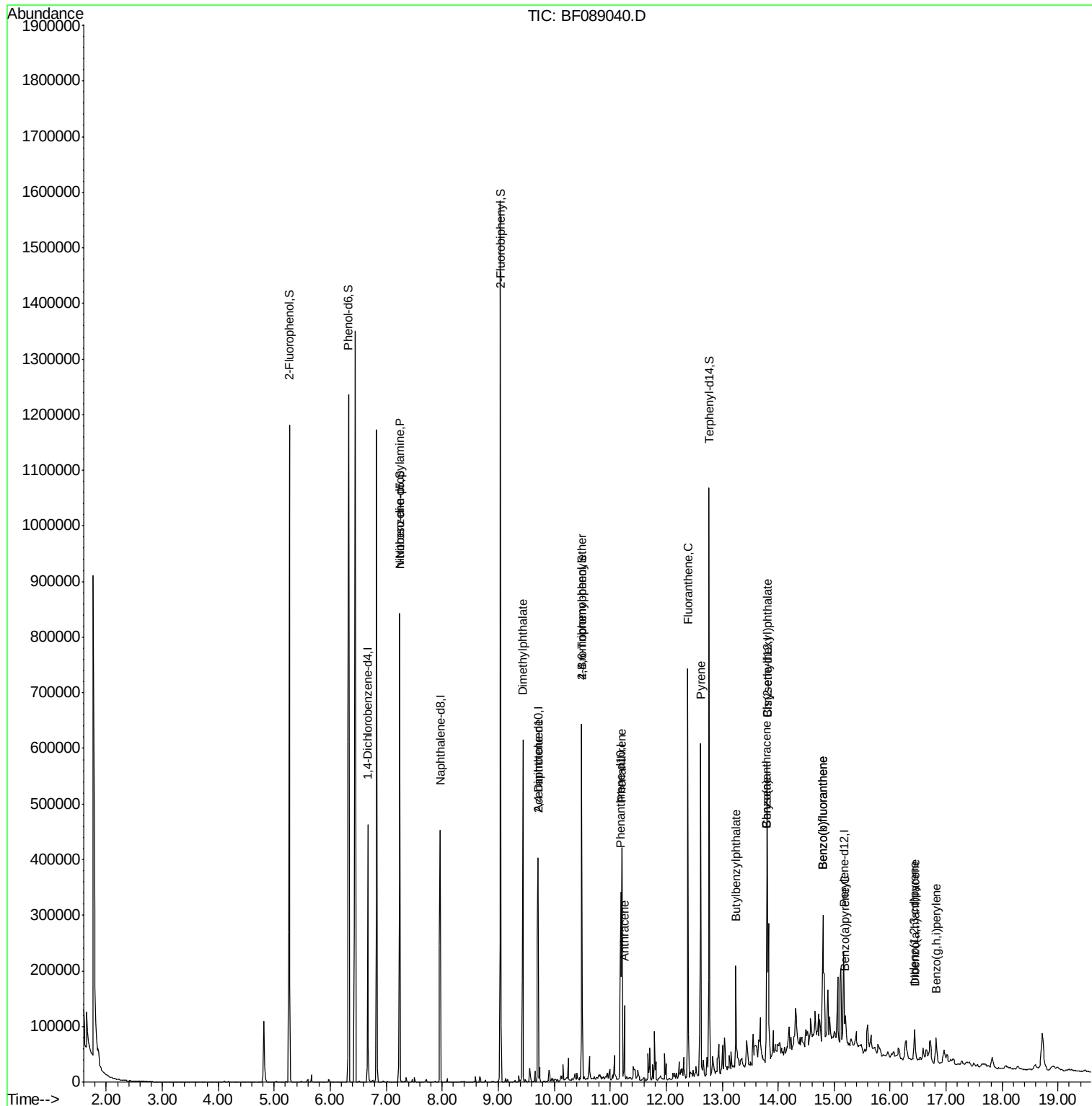
Quant Time: Jul 16 04:57:43 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

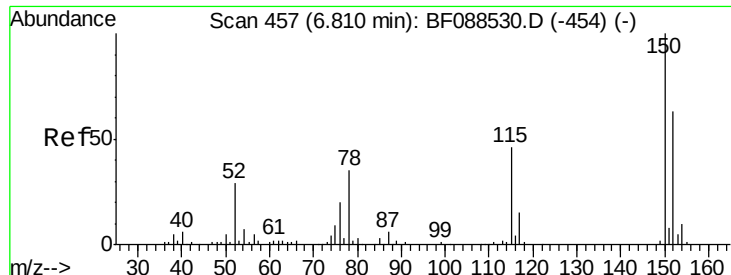
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	60182	20.00	ng	-0.03
21) Naphthalene-d8	7.96	136	241751	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	96628	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	150333	20.00	ng	-0.03
75) Chrysene-d12	13.81	240	111892	20.00	ng	-0.05
86) Perylene-d12	15.18	264	85105	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	313212	78.00	ng	-0.02
7) Phenol-d6	6.33	99	465886	89.79	ng	-0.02
23) Nitrobenzene-d5	7.24	82	300984	65.24	ng	-0.03
41) 2,4,6-Tribromophenol	10.49	330	55161	61.47	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	432458	70.69	ng	-0.03
78) Terphenyl-d14	12.77	244	278014	55.34	ng	-0.03
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.24	70	40555	11.64	ng	Qvalue # 73
49) Dimethylphthalate	9.44	163	247279	35.92	ng	99
56) 2,4-Dinitrotoluene	9.71	165	12528	6.28	ng	# 36
66) 4-Bromophenyl-phenylether	10.49	248	4679	3.09	ng	# 1
70) Phenanthrene	11.21	178	176870	21.52	ng	98
71) Anthracene	11.26	178	43704	5.35	ng	98
74) Fluoranthene	12.39	202	258894	31.08	ng	99
77) Pyrene	12.62	202	249637	26.31	ng	98
79) Butylbenzylphthalate	13.25	149	35241	8.33	ng	93
80) Benzo(a)anthracene	13.79	228	120117	16.67	ng	98
82) Chrysene	13.79	228	120117	16.85	ng	98
83) Bis(2-ethylhexyl)phthalate	13.81	149	9905	2.05	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.43	276	34945	6.37	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	137618	25.78	ng	# 96
88) Benzo(k)fluoranthene	14.80	252	137618	29.61	ng	99
89) Benzo(a)pyrene	15.20	252	21069	4.66	ng	98
90) Dibenzo(a,h)anthracene	16.45	278	13366	3.54	ng	94
91) Benzo(g,h,i)perylene	16.82	276	33443	8.56	ng	95

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

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Sample    : H4048-02  
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ALS Vial  : 26    Sample Multiplier: 1
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Quant Time: Jul 16 04:57:43 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 11 18:13:32 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.03 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

Instrument :

BNA_F

ClientSampleId :

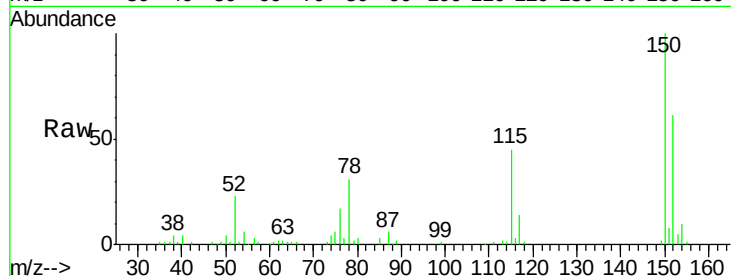
Tgt Ion:152 Resp: 60182

Ion Ratio Lower Upper

152 100

150 163.2 123.8 185.6

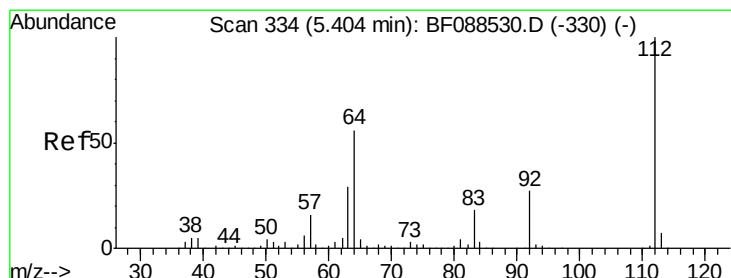
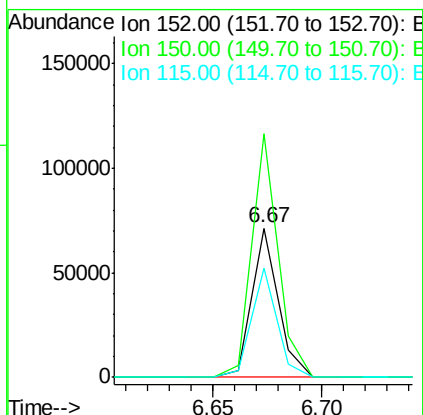
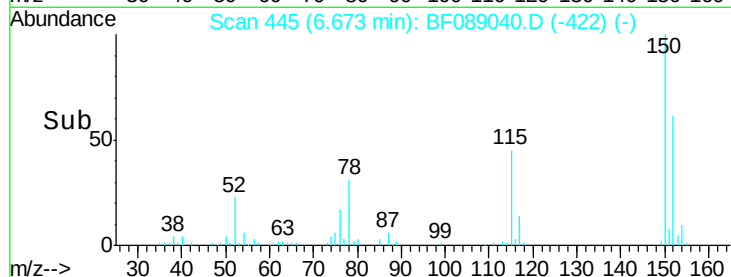
115 73.2 39.6 59.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 78.00 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

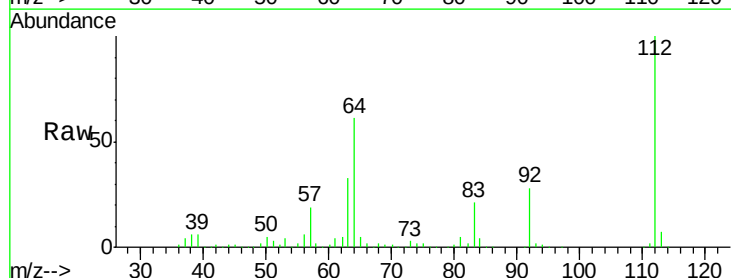
Tgt Ion:112 Resp: 313212

Ion Ratio Lower Upper

112 100

64 61.3 42.2 63.2

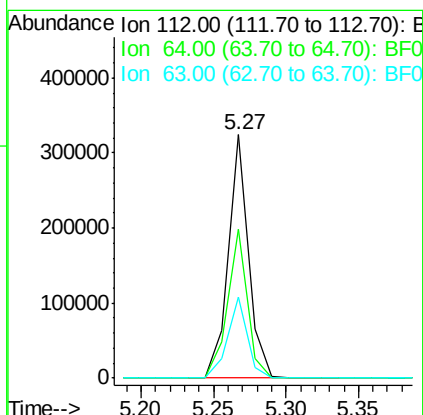
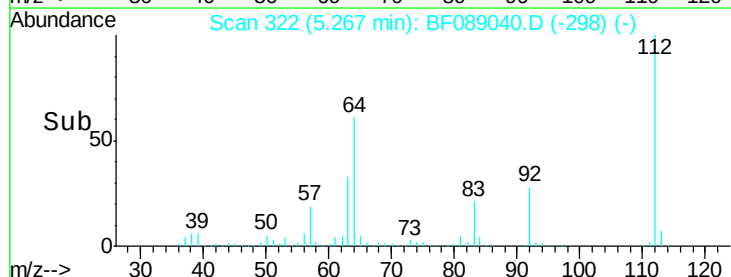
63 33.1 21.8 32.8#

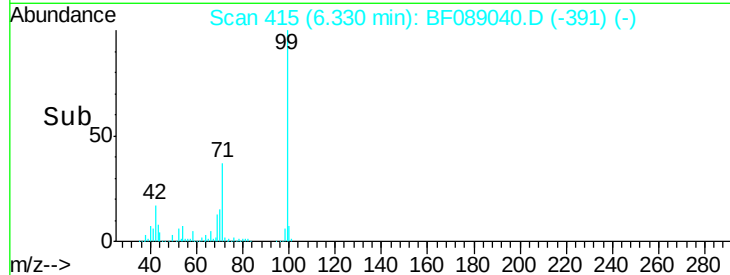
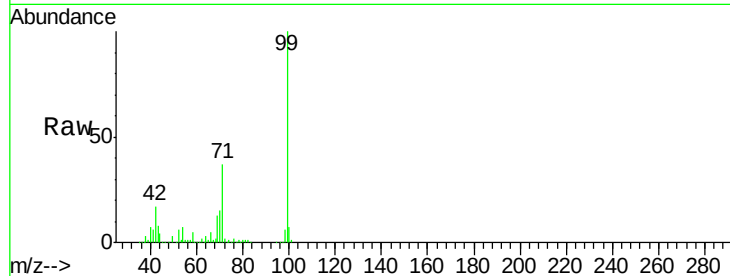
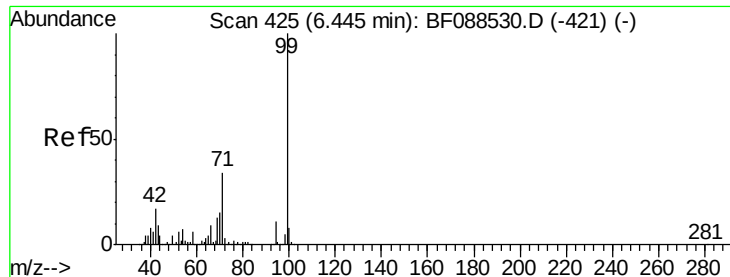


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 89.79 ng

RT: 6.33 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

Instrument :

BNA_F

ClientSampleId :

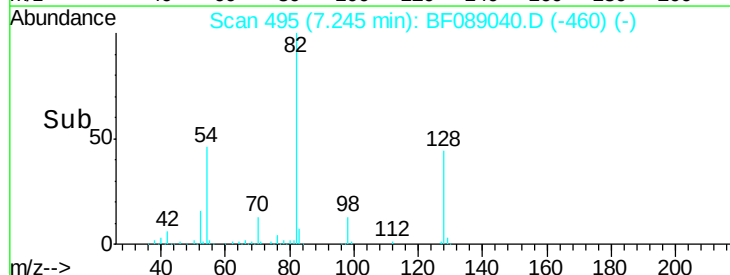
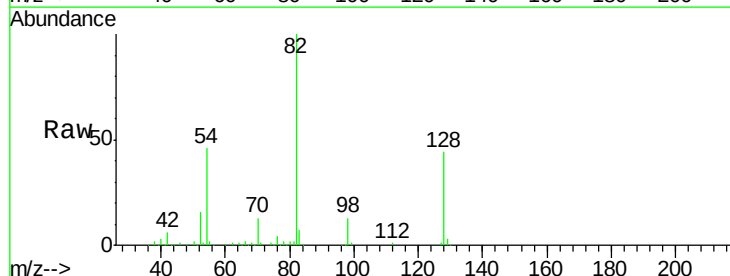
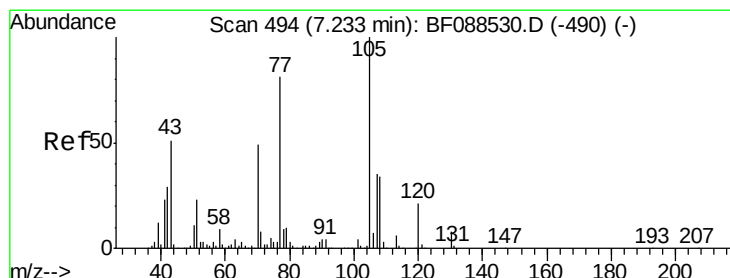
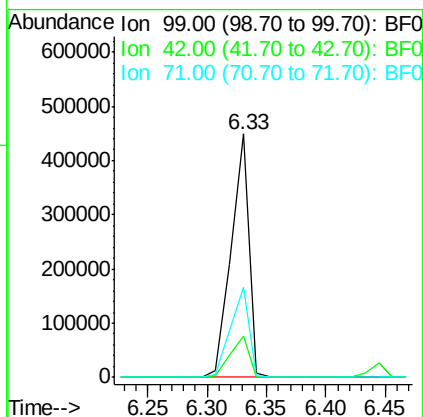
Tgt Ion: 99 Resp: 465886

Ion Ratio Lower Upper

99 100

42 17.2 12.2 18.2

71 37.2 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 11.64 ng

RT: 7.24 min Scan# 495

Delta R.T. 0.10 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

Tgt Ion: 70 Resp: 40555

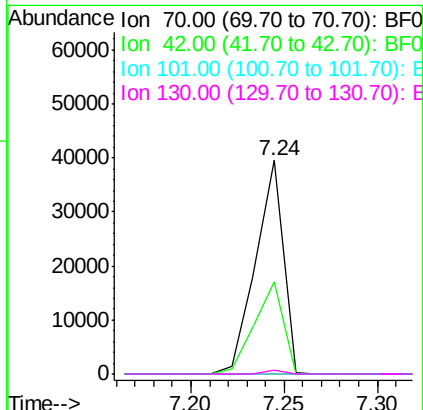
Ion Ratio Lower Upper

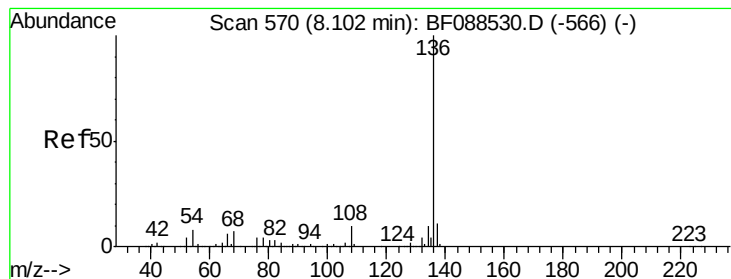
70 100

42 43.1 49.6 74.4#

101 0.0 7.1 10.7#

130 2.0 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF089040.D

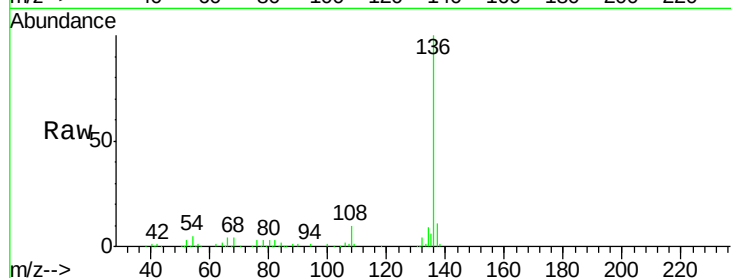
Acq: 16 Jul 2016 4:34

Instrument :

BNA_F

ClientSampleId :

Tgt Ion:	136	Resp:	241751
Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.1	13.7
54	5.3	6.6	10.0#
68	4.3	5.1	7.7#

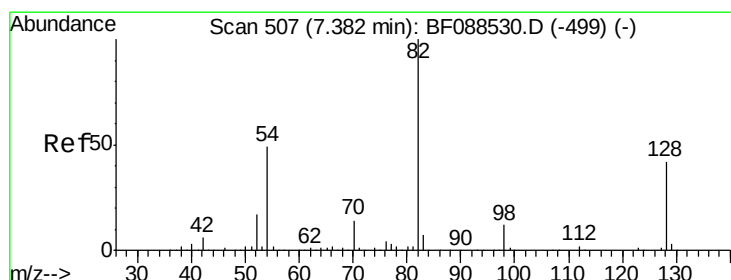
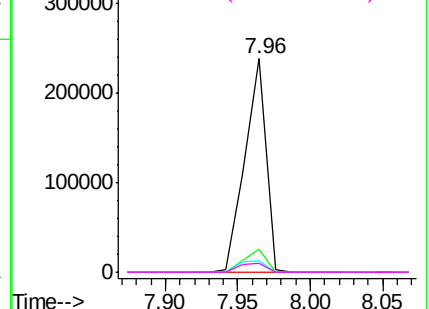
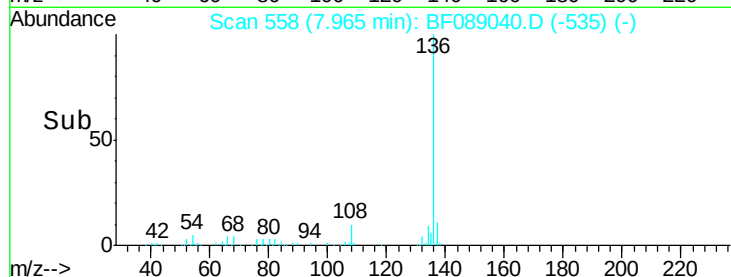


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 65.24 ng

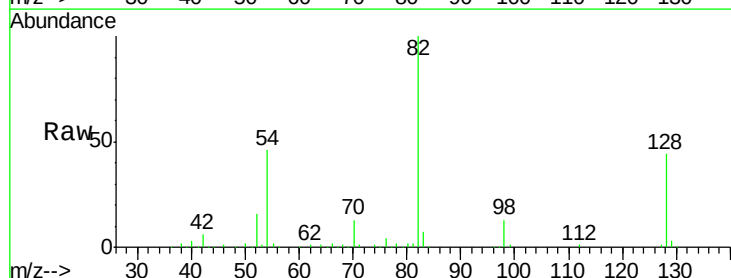
RT: 7.24 min Scan# 495

Delta R.T. -0.03 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

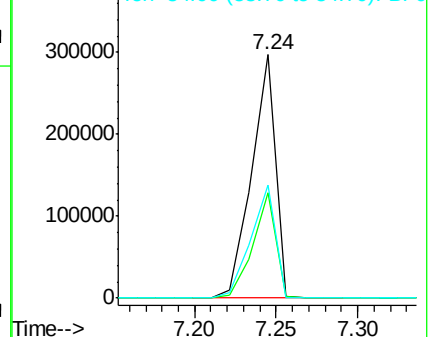
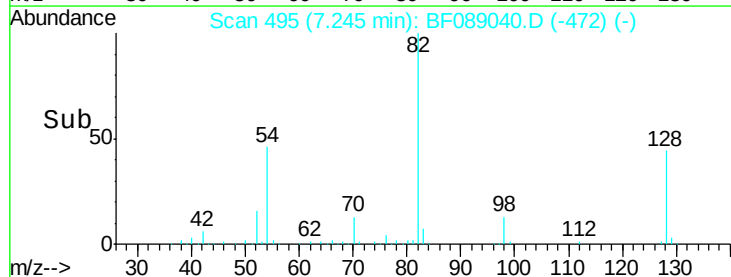
Tgt Ion:	82	Resp:	300984
Ion	Ratio	Lower	Upper
82	100		
128	43.5	35.9	53.9
54	46.4	40.9	61.3

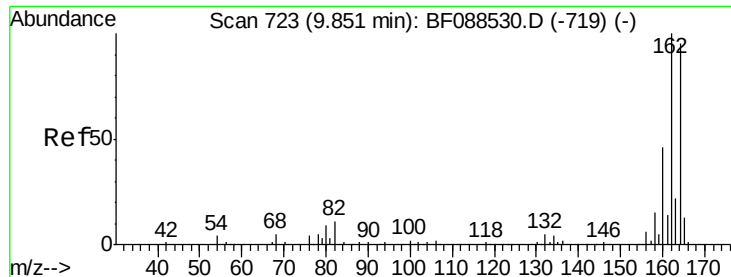


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

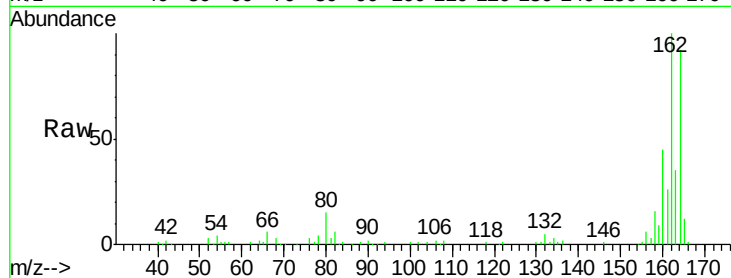




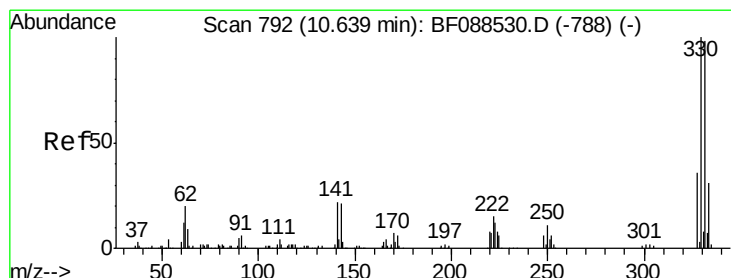
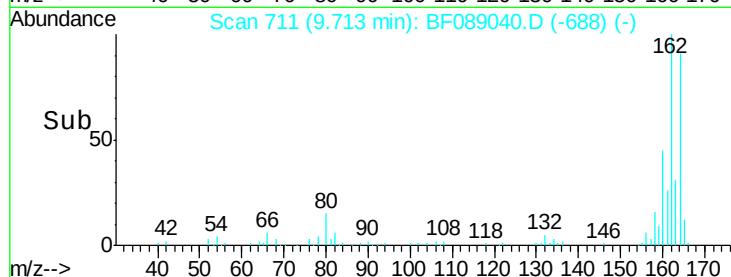
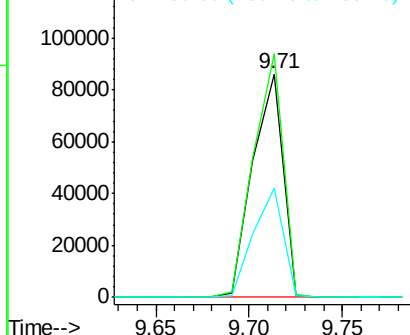
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.71 min Scan# 711
 Delta R.T. -0.03 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion:164 Resp: 96628
 Ion Ratio Lower Upper
 164 100
 162 109.0 85.4 128.2
 160 49.2 39.5 59.3

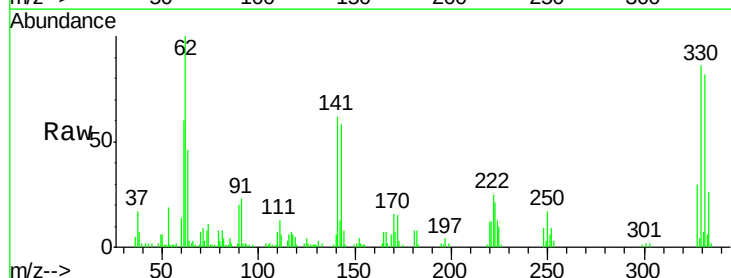


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

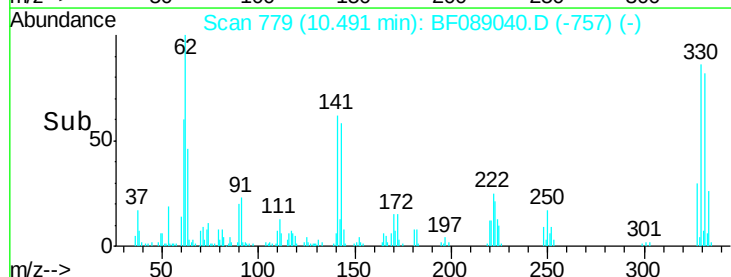
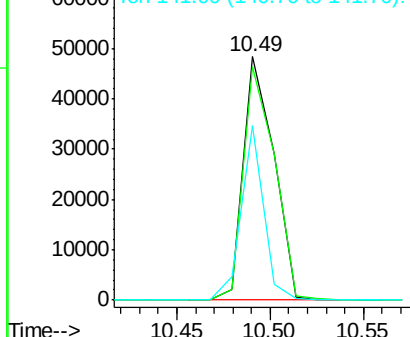


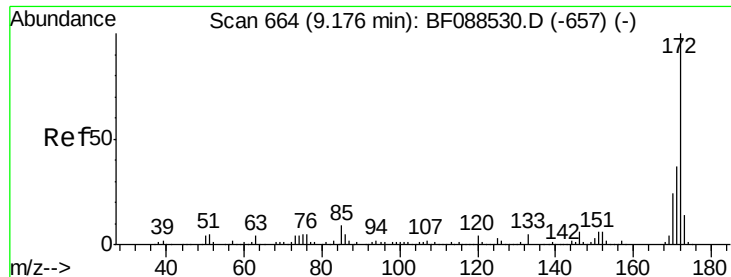
#41
 2,4,6-Tribromophenol
 Concen: 61.47 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Tgt Ion:330 Resp: 55161
 Ion Ratio Lower Upper
 330 100
 332 97.7 0.0 0.0#
 141 53.4 0.0 0.0#



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

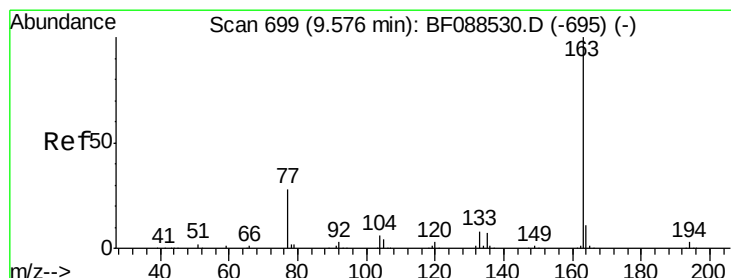
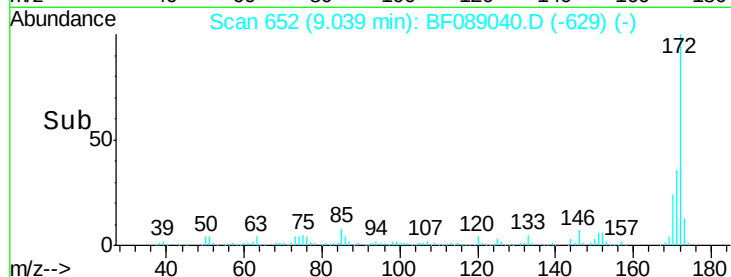
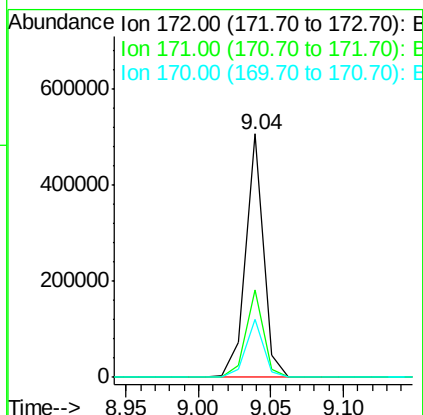
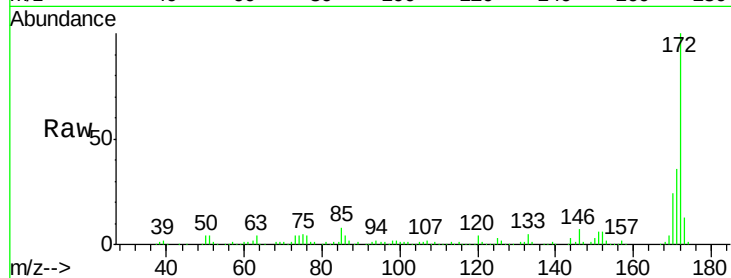




#44
 2-Fluorobiphenyl
 Concen: 70.69 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

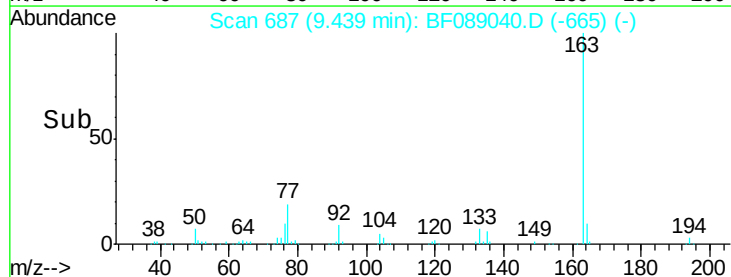
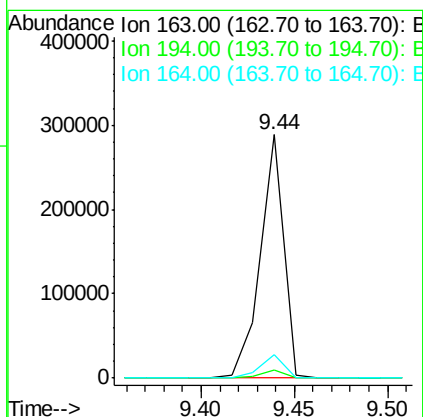
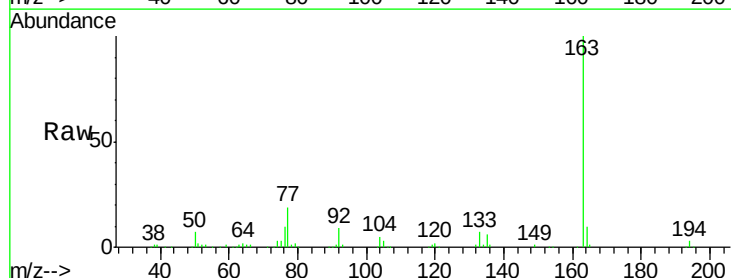
Instrument :
 BNA_F
 ClientSampleId :

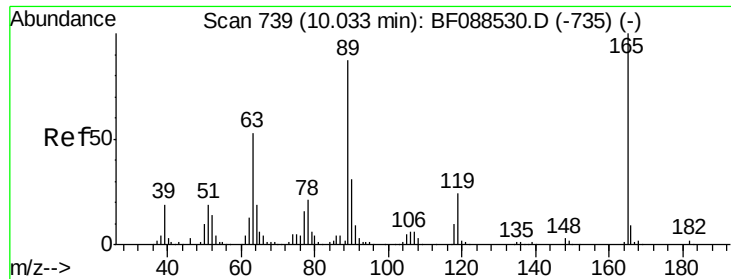
Tgt Ion:172 Resp: 432458
 Ion Ratio Lower Upper
 172 100
 171 36.1 28.6 43.0
 170 23.7 19.2 28.8



#49
 Dimethylphthalate
 Concen: 35.92 ng
 RT: 9.44 min Scan# 687
 Delta R.T. -0.05 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Tgt Ion:163 Resp: 247279
 Ion Ratio Lower Upper
 163 100
 194 3.4 2.8 4.2
 164 9.9 8.3 12.5

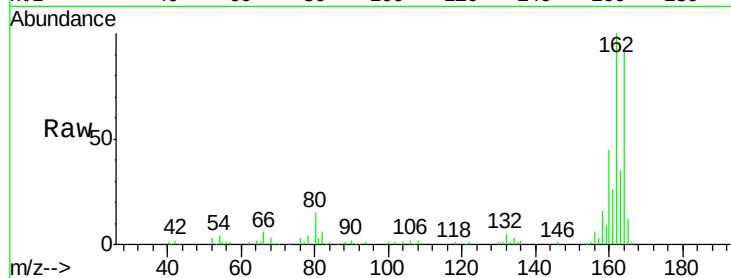




#56
 2,4-Dinitrotoluene
 Concen: 6.28 ng
 RT: 9.71 min Scan# 711
 Delta R.T. -0.23 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion:	165	Resp:	12528
Ion Ratio	Lower	Upper	
165	100		
63	0.0	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#

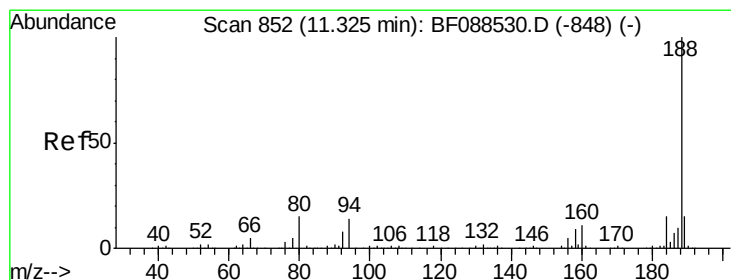
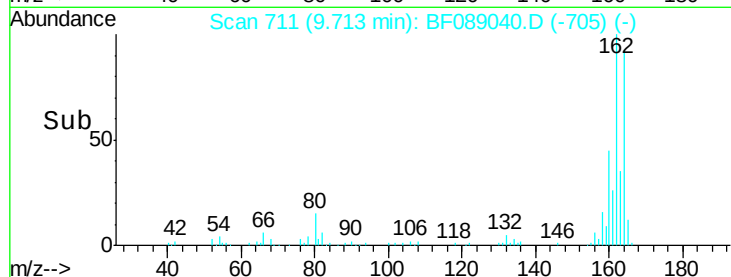
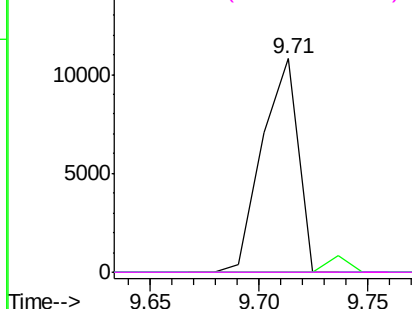


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

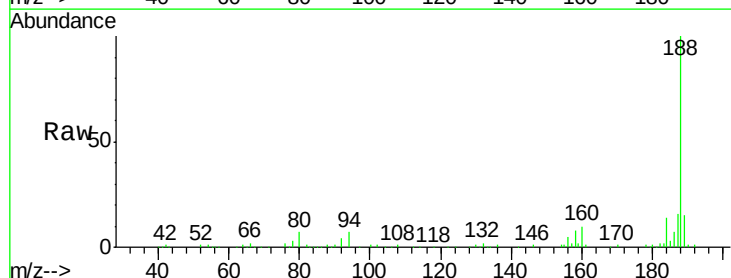
Ion 89.00 (88.70 to 89.70): BF0

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. -0.03 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

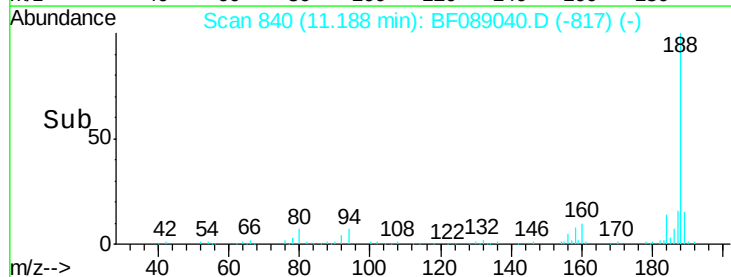
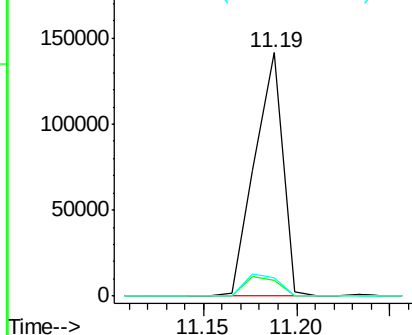
Tgt Ion:	188	Resp:	150333
Ion Ratio	Lower	Upper	
188	100		
94	6.7	9.0	13.6#
80	7.5	10.0	15.0#

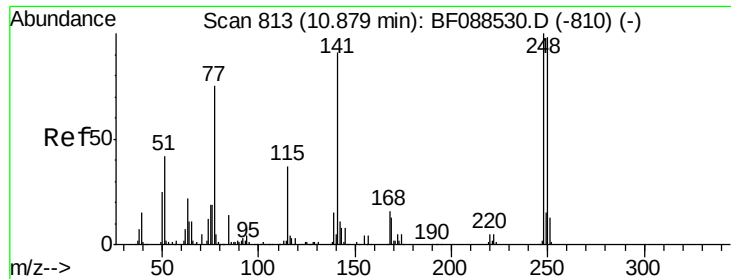


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

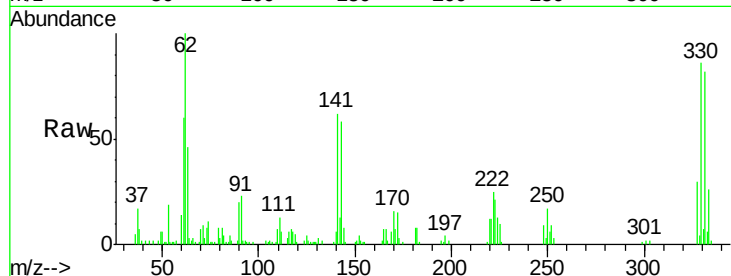




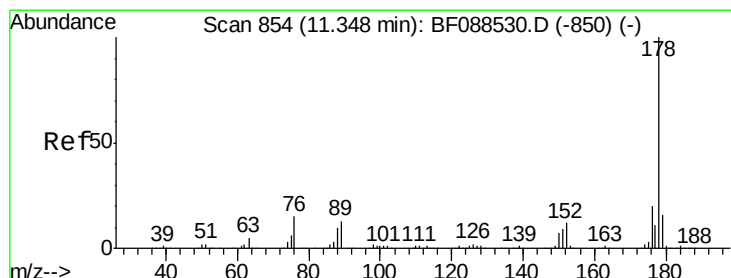
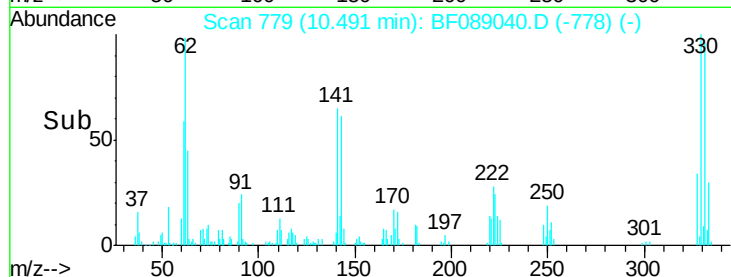
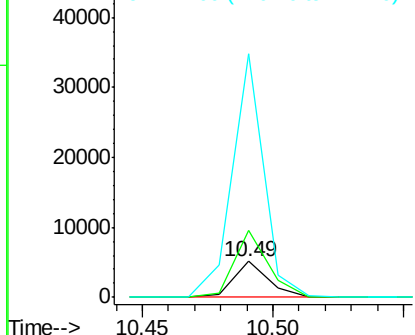
#66
 4-Bromophenyl-phenylether
 Concen: 3.09 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.29 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion: 248 Resp: 4679
 Ion Ratio Lower Upper
 248 100
 250 185.6 77.1 115.7#
 141 672.9 50.6 76.0#

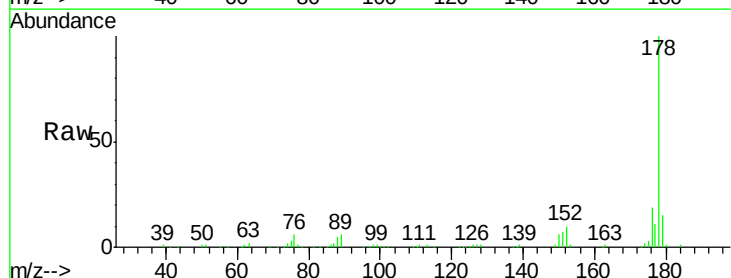


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

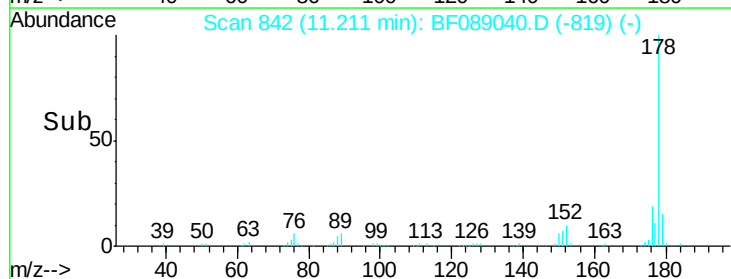
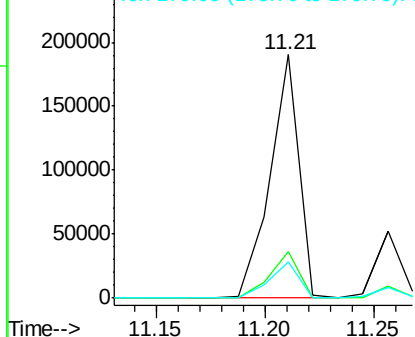


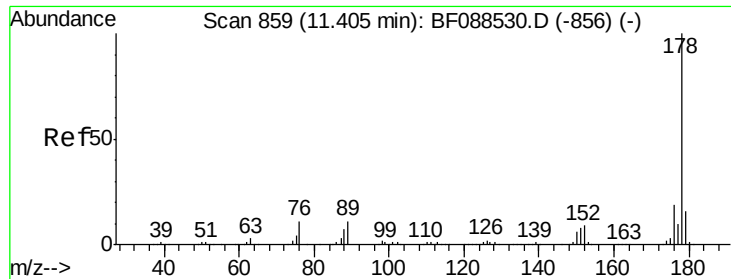
#70
 Phenanthrene
 Concen: 21.52 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.03 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Tgt Ion: 178 Resp: 176870
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.8 23.6
 179 14.8 13.0 19.4



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

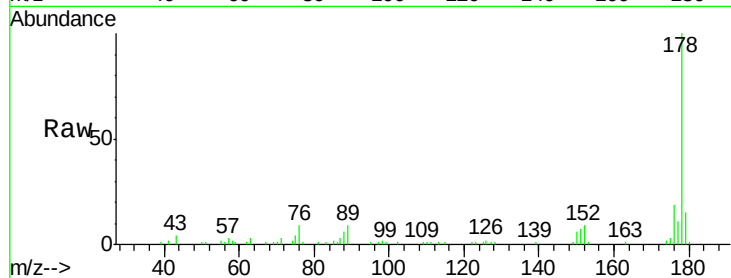




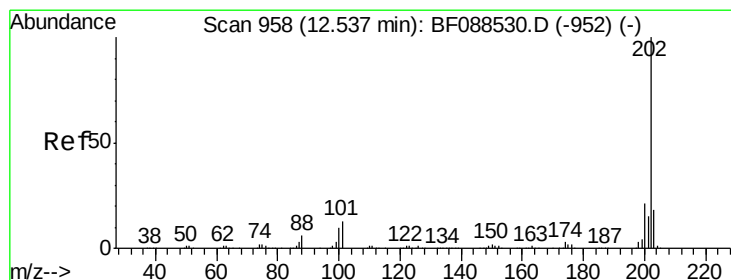
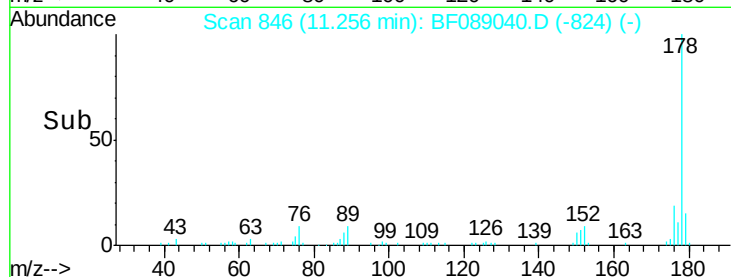
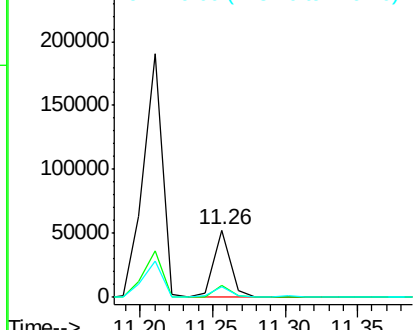
#71
 Anthracene
 Concen: 5.35 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.05 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion:178 Resp: 43704
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.6 23.4
 179 15.2 12.8 19.2

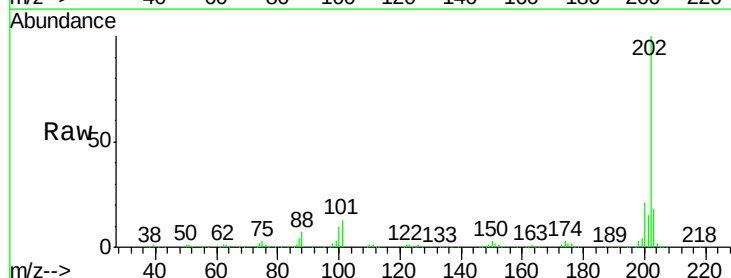


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

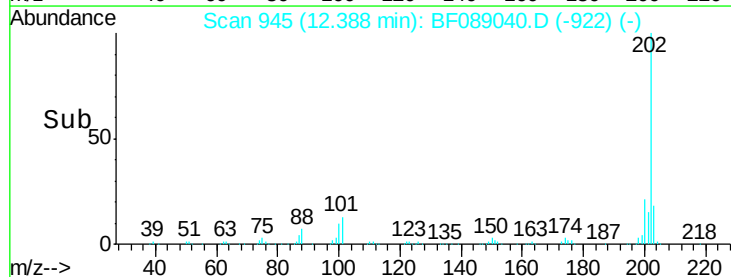
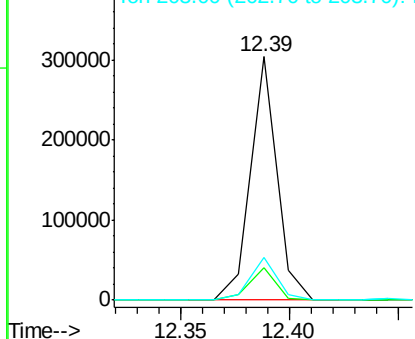


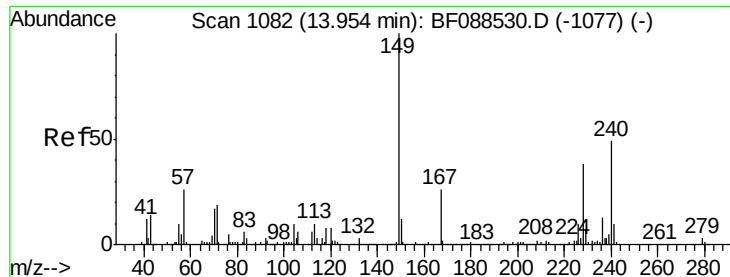
#74
 Fluoranthene
 Concen: 31.08 ng
 RT: 12.39 min Scan# 945
 Delta R.T. -0.03 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Tgt Ion:202 Resp: 258894
 Ion Ratio Lower Upper
 202 100
 101 13.4 0.0 33.1
 203 17.6 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

Instrument :

BNA_F

ClientSampleId :

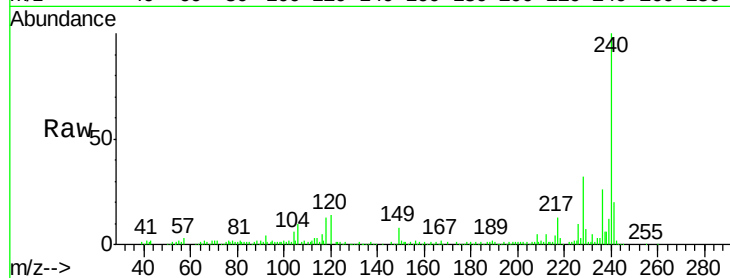
Tgt Ion:240 Resp: 111892

Ion Ratio Lower Upper

240 100

120 14.2 6.8 10.2#

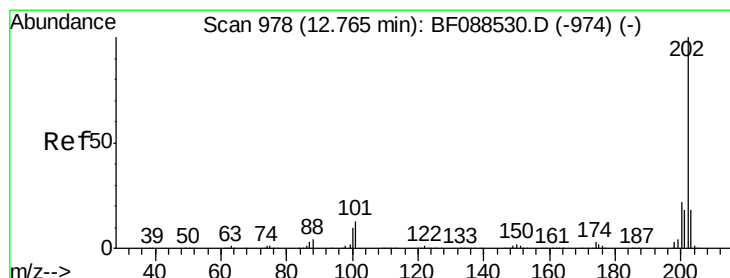
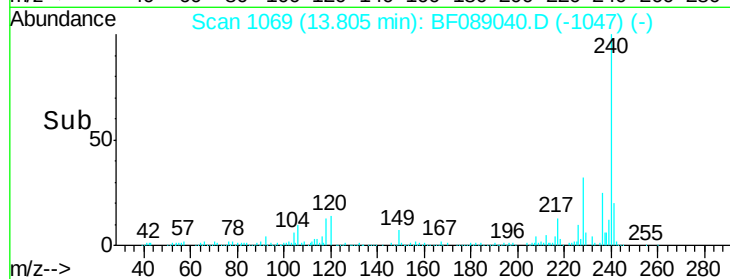
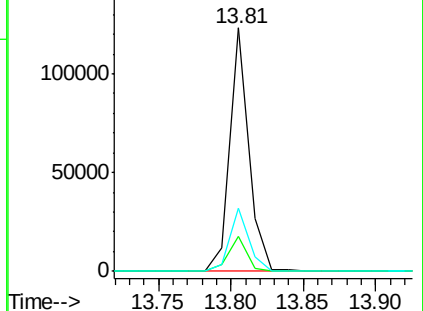
236 26.1 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 26.31 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

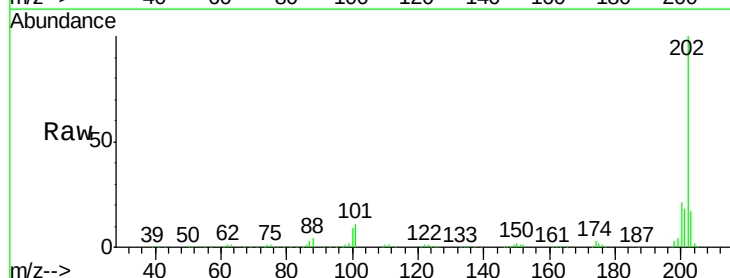
Tgt Ion:202 Resp: 249637

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

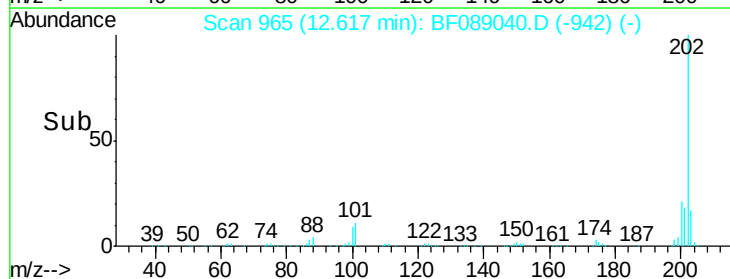
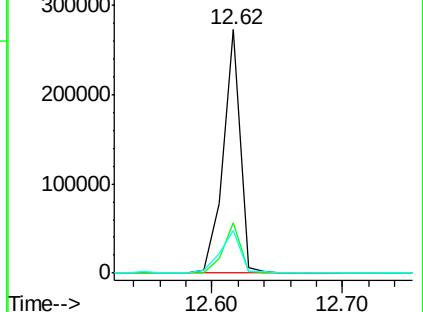
203 17.3 14.5 21.7

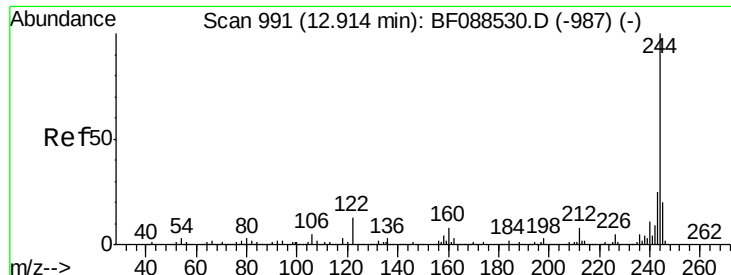


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

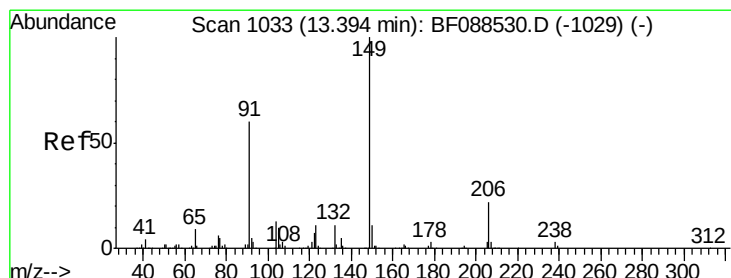
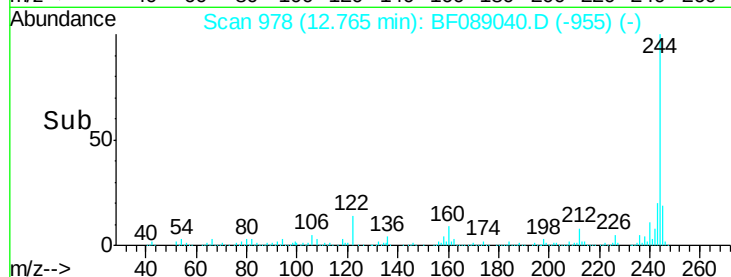
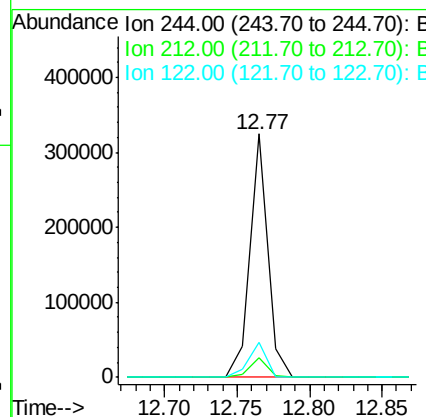
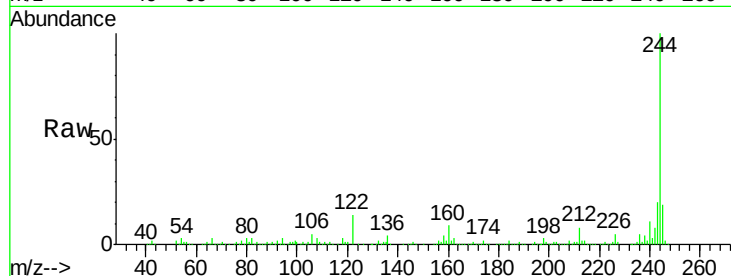




#78
 Terphenyl-d14
 Concen: 55.34 ng
 RT: 12.77 min Scan# 978
 Delta R.T. -0.03 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

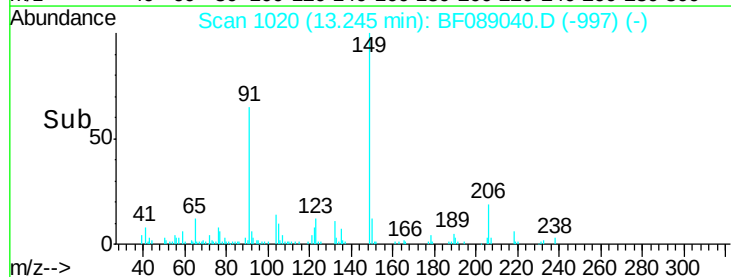
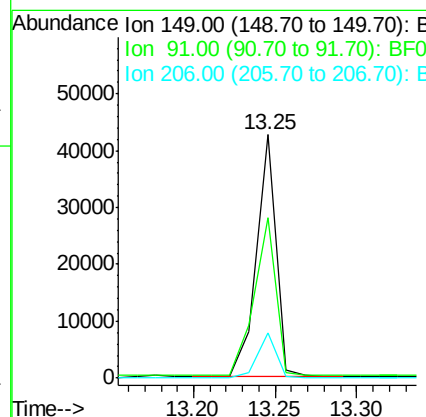
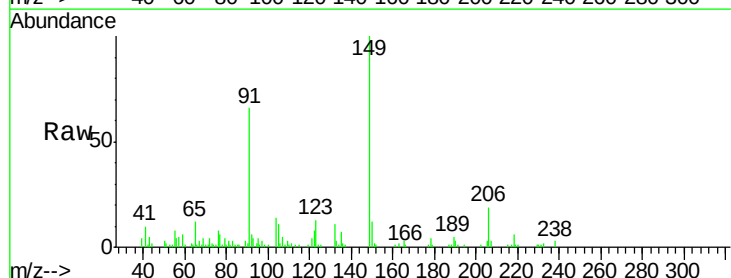
Instrument :
 BNA_F
 ClientSampleId :

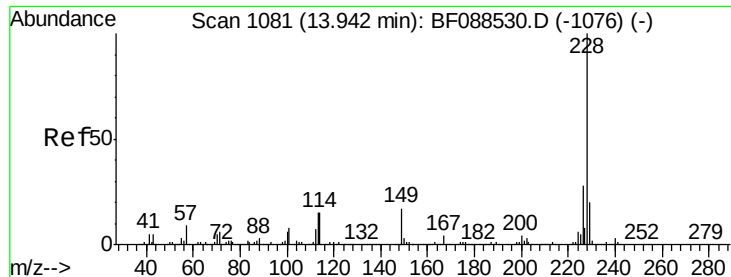
Tgt Ion: 244 Resp: 278014
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.0 9.0
 122 14.2 11.2 16.8



#79
 Butylbenzylphthalate
 Concen: 8.33 ng
 RT: 13.25 min Scan# 1020
 Delta R.T. -0.03 min
 Lab File: BF089040.D
 Acq: 16 Jul 2016 4:34

Tgt Ion: 149 Resp: 35241
 Ion Ratio Lower Upper
 149 100
 91 66.0 48.0 72.0
 206 18.7 16.0 24.0

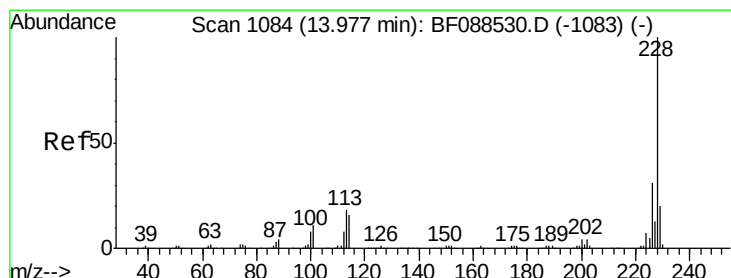
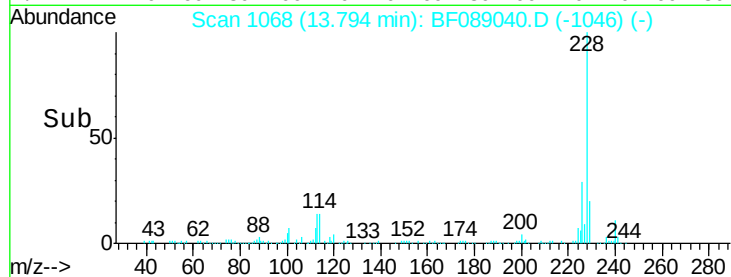
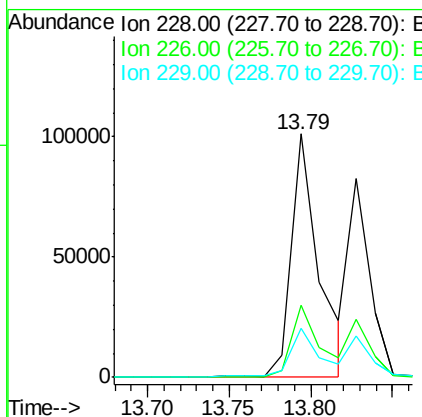
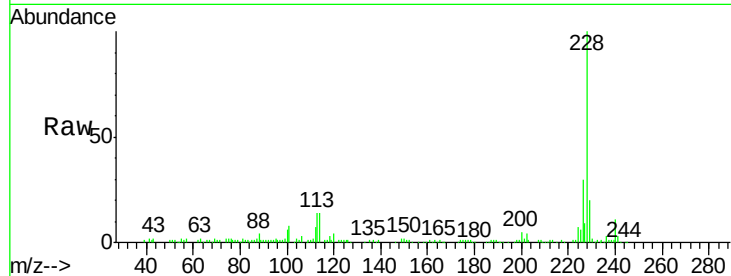




#80
Benzo(a)anthracene
Concen: 16.67 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.05 min
Lab File: BF089040.D
Acq: 16 Jul 2016 4:34

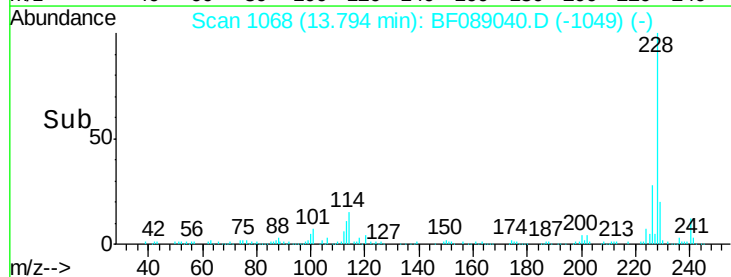
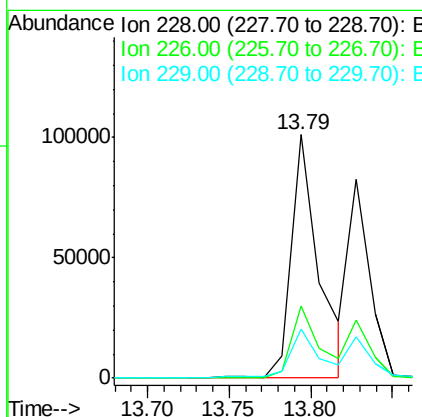
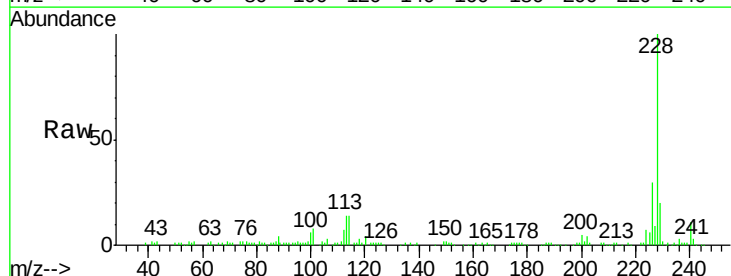
Instrument :
BNA_F
ClientSampleId :

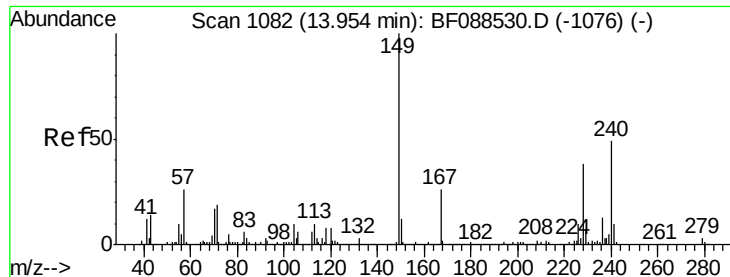
Tgt Ion: 228 Resp: 120117
Ion Ratio Lower Upper
228 100
226 29.7 22.3 33.5
229 20.3 16.0 24.0



#82
Chrysene
Concen: 16.85 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.08 min
Lab File: BF089040.D
Acq: 16 Jul 2016 4:34

Tgt Ion: 228 Resp: 120117
Ion Ratio Lower Upper
228 100
226 29.7 25.4 38.2
229 20.3 16.3 24.5





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.05 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

Instrument :

BNA_F

ClientSampleId :

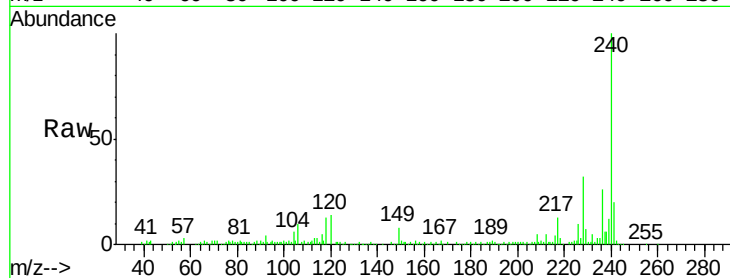
Tgt Ion:149 Resp: 9905

Ion Ratio Lower Upper

149 100

167 25.0 20.5 30.7

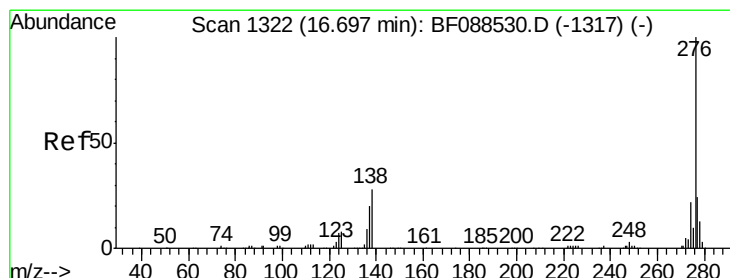
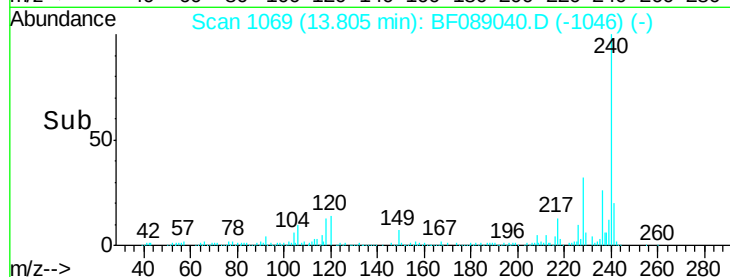
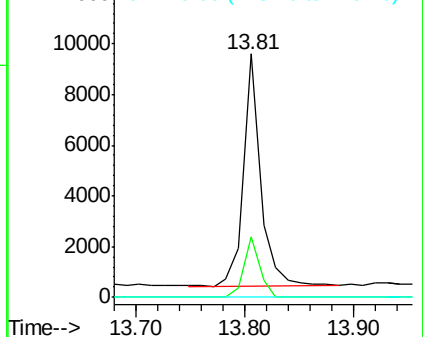
279 0.0 2.0 3.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.37 ng

RT: 16.43 min Scan# 1299

Delta R.T. -0.07 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

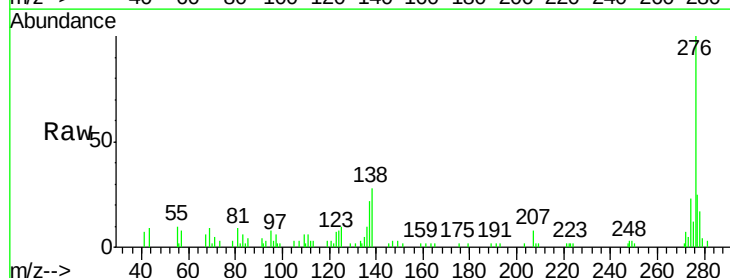
Tgt Ion:276 Resp: 34945

Ion Ratio Lower Upper

276 100

138 30.6 0.0 0.0#

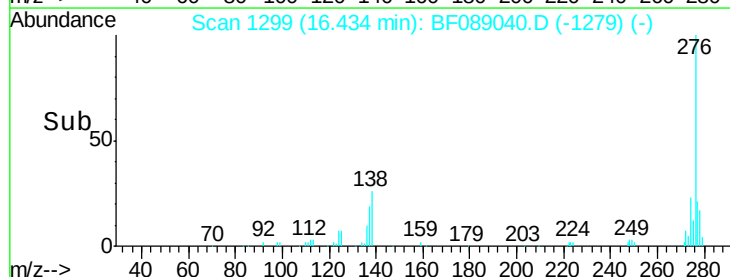
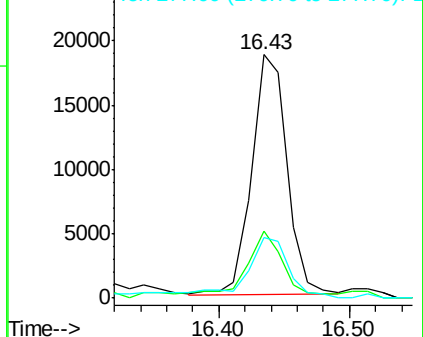
277 33.2 0.0 0.0#

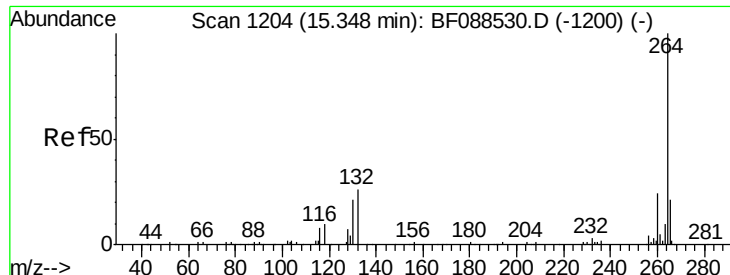


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

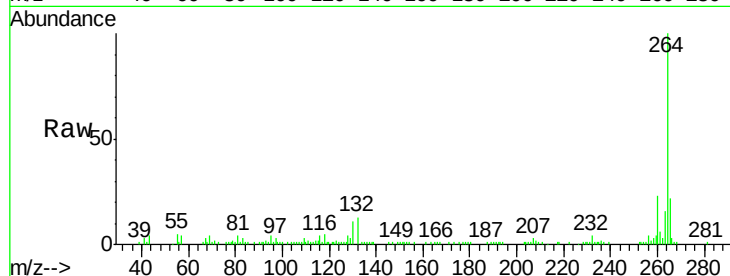




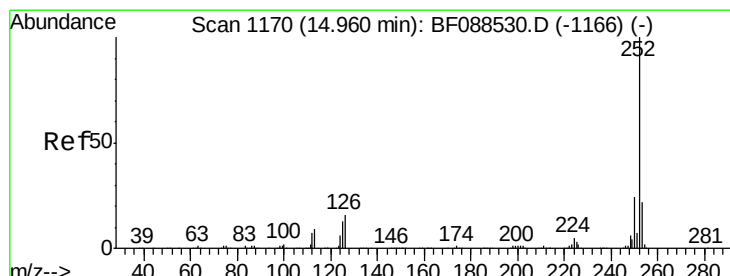
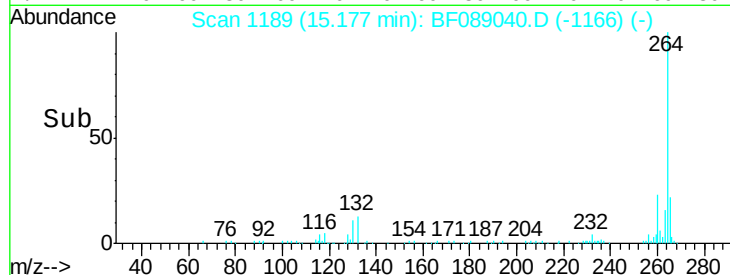
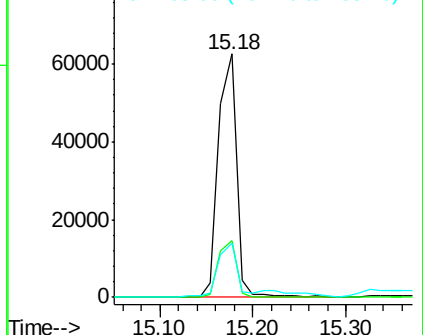
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.03 min
Lab File: BF089040.D
Acq: 16 Jul 2016 4:34

Instrument :
BNA_F
ClientSampleId :

Tgt Ion: 264 Resp: 85105
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 22.0 16.9 25.3

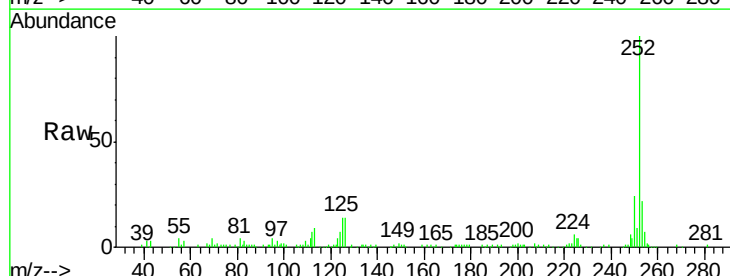


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

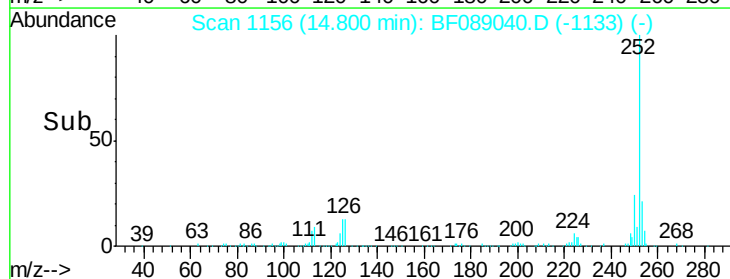
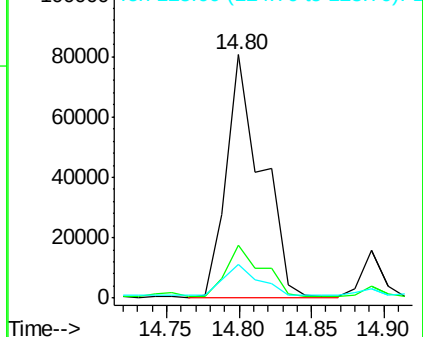


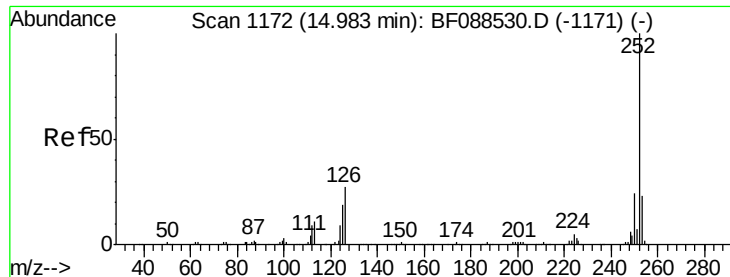
#87
Benzo(b)fluoranthene
Concen: 25.78 ng
RT: 14.80 min Scan# 1156
Delta R.T. -0.03 min
Lab File: BF089040.D
Acq: 16 Jul 2016 4:34

Tgt Ion: 252 Resp: 137618
Ion Ratio Lower Upper
252 100
253 21.8 17.4 26.2
125 13.6 7.1 10.7#



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: 29.61 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.07 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

Instrument :

BNA_F

ClientSampleId :

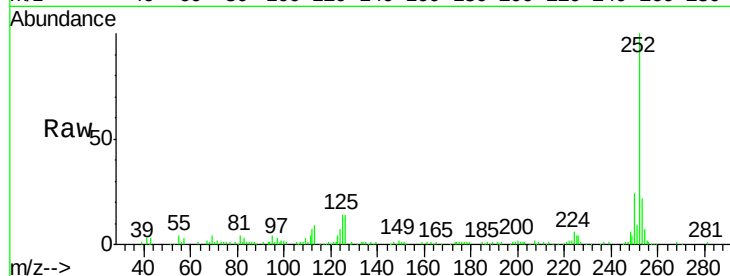
Tgt Ion:252 Resp: 137618

Ion Ratio Lower Upper

252 100

253 21.8 18.0 27.0

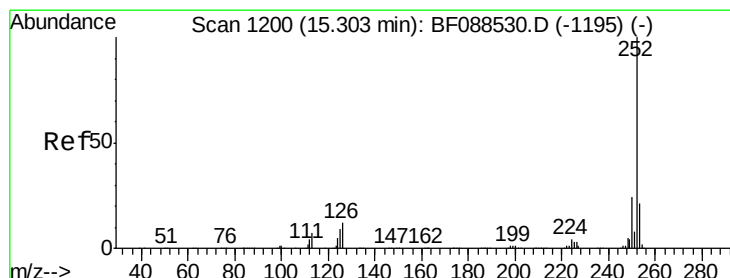
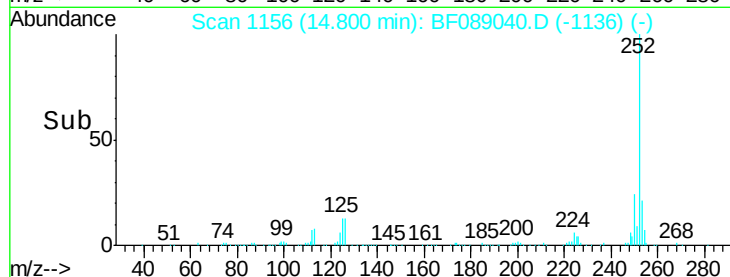
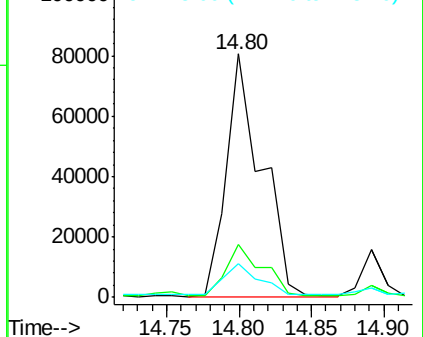
125 13.6 11.2 16.8



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



#89

Benzo(a)pyrene

Concen: 4.66 ng

RT: 15.20 min Scan# 1191

Delta R.T. 0.03 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

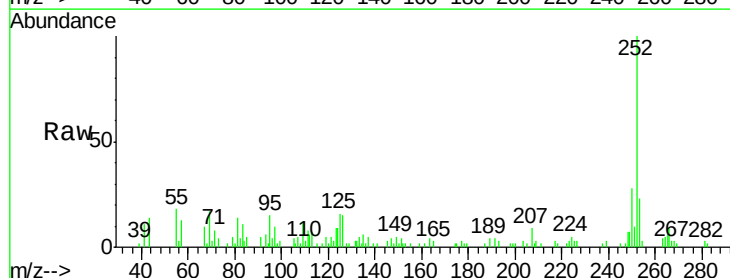
Tgt Ion:252 Resp: 21069

Ion Ratio Lower Upper

252 100

253 23.1 17.9 26.9

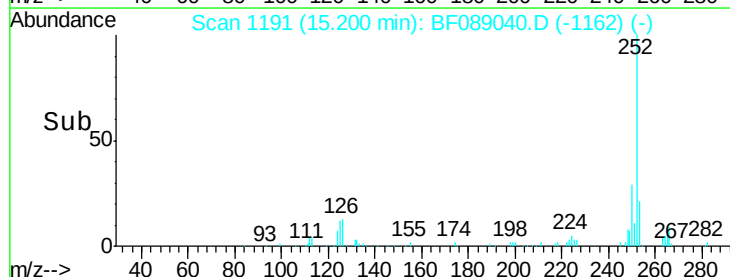
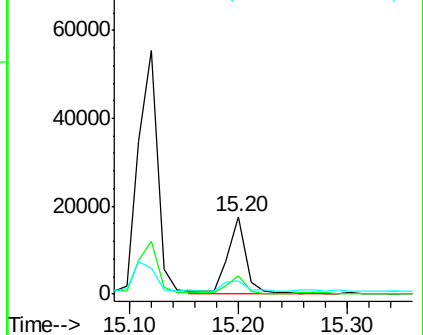
125 16.5 12.5 18.7

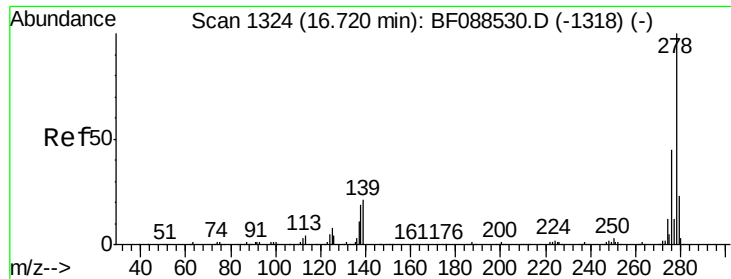


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.54 ng

RT: 16.45 min Scan# 1300

Delta R.T. -0.07 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

Instrument :

BNA_F

ClientSampleId :

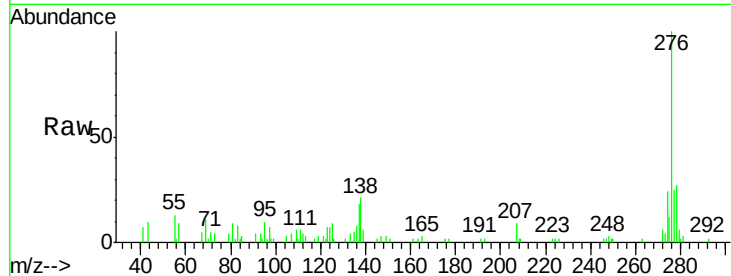
Tgt Ion:278 Resp: 13366

Ion Ratio Lower Upper

278 100

139 23.5 15.7 23.5

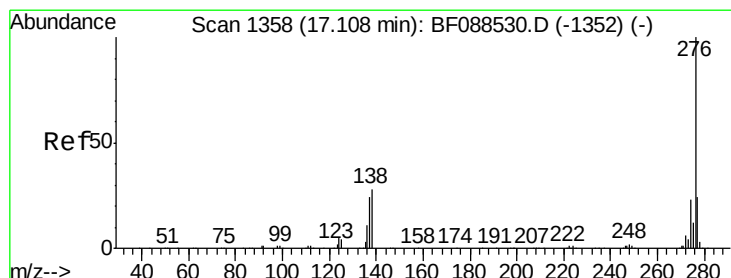
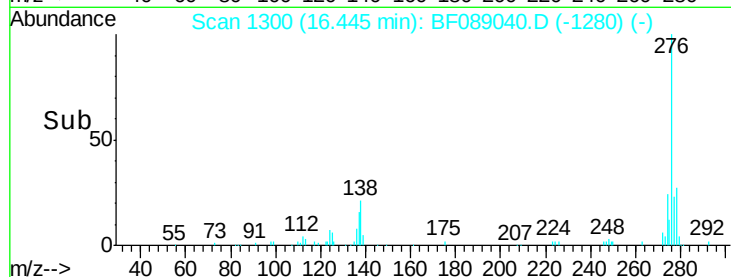
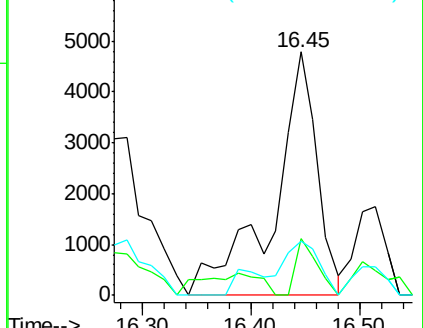
279 22.2 19.4 29.2



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 8.56 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.07 min

Lab File: BF089040.D

Acq: 16 Jul 2016 4:34

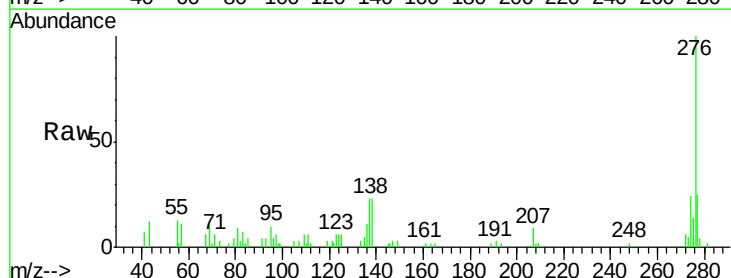
Tgt Ion:276 Resp: 33443

Ion Ratio Lower Upper

276 100

277 25.1 18.9 28.3

138 23.3 21.4 32.2



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

