

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
 Data File : BF090036.D
 Acq On : 8 Sep 2016 20:46
 Operator : UM/SJ
 Sample : H4704-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0

Manual Integrations
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Sohil
 9/9/2016 8:39:53 AM

Quant Time: Sep 09 06:58:13 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 08 16:07:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	196412	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	802341	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	367004	20.00	ng	0.00
63) Phenanthrene-d10	11.11	188	587823	20.00	ng	0.00
75) Chrysene-d12	13.74	240	351453	20.00	ng	0.01
86) Perylene-d12	15.07	264	371379	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	1226068	99.92	ng	0.01
7) Phenol-d6	6.25	99	1608431	107.87	ng	0.00
23) Nitrobenzene-d5	7.16	82	852111	61.59	ng	-0.01
41) 2,4,6-Tribromophenol	10.41	330	313332	86.54	ng	-0.01
44) 2-Fluorobiphenyl	8.97	172	1729211	77.34	ng	0.00
78) Terphenyl-d14	12.69	244	1150822	80.89	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.91	128	157728	3.95	ng	97
49) Dimethylphthalate	9.36	163	554406	20.90	ng	99
51) Acenaphthene	9.67	154	561395	25.64	ng	99
54) Dibenzofuran	9.83	168	307994	10.50	ng	100
57) Fluorene	10.17	166	479773	22.37	ng	100
70) Phenanthrene	11.14	178	4300141	146.90	ng	98
71) Anthracene	11.19	178	1716592	57.82	ng	99
72) Carbazole	11.34	167	927331	33.31	ng	99
74) Fluoranthene	12.33	202	6178061	201.39	ng	96
77) Pyrene	12.56	202	5704494	230.21	ng	95
80) Benzo(a)anthracene	13.73	228	3916037	181.92	ng	95
82) Chrysene	13.77	228	2755363m	137.03	ng	
83) Bis(2-ethylhexyl)phthalate	13.74	149	64353	4.66	ng	95
85) Indeno(1,2,3-cd)pyrene	16.31	276	1539984	103.59	ng	97
87) Benzo(b)fluoranthene	14.73	252	3668167m	157.67	ng	
88) Benzo(k)fluoranthene	14.74	252	861627m	43.64	ng	
89) Benzo(a)pyrene	15.04	252	2404717	120.64	ng	95
90) Dibenzo(a,h)anthracene	16.31	278	375259m	25.69	ng	
91) Benzo(g,h,i)perylene	16.67	276	1401390	95.33	ng	96

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

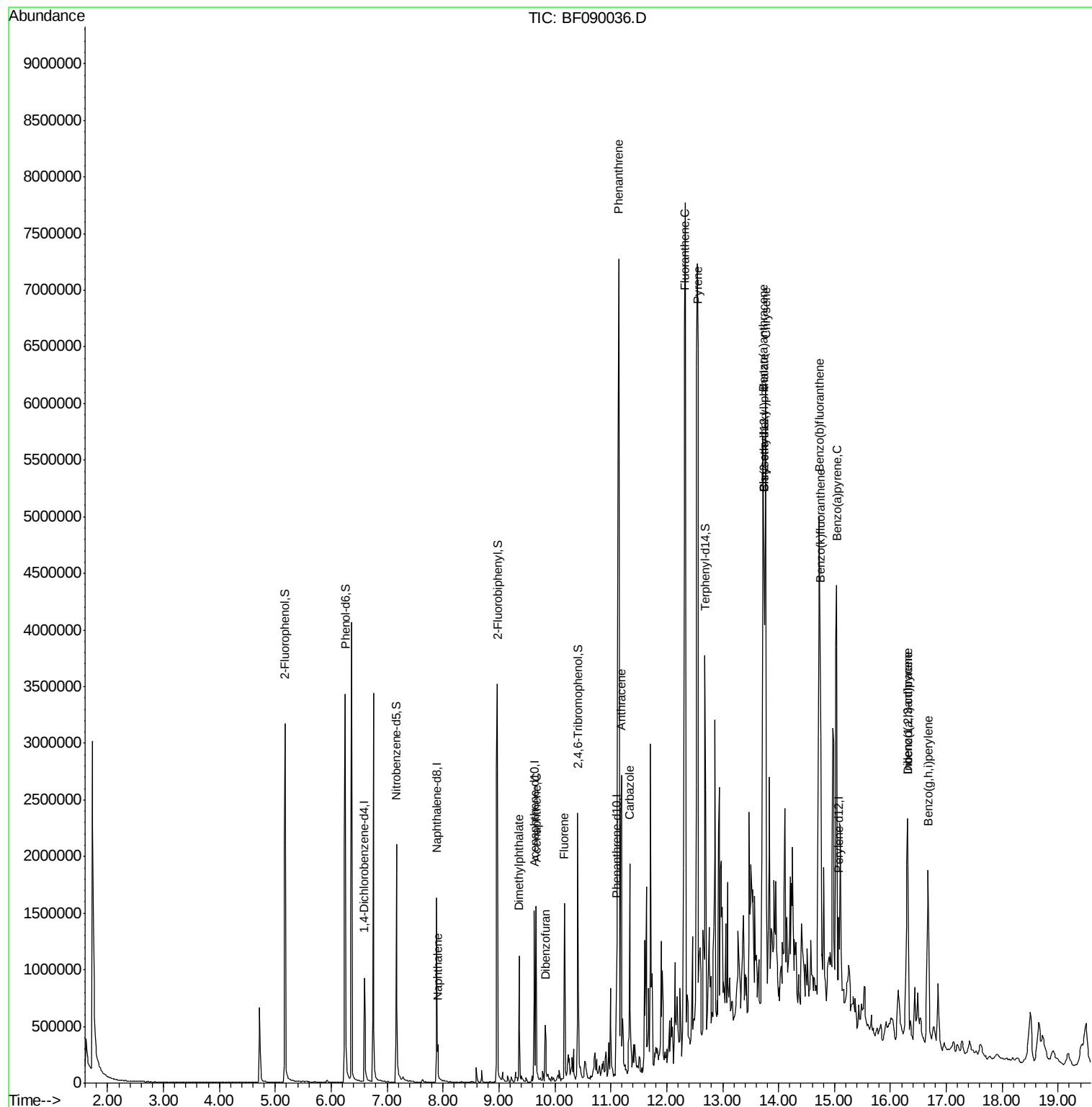
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
Data File : BF090036.D
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Sample : H4704-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

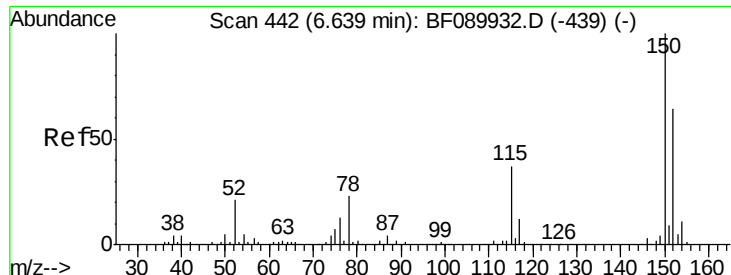
Instrument :
BNA_F
ClientSampled :
SB-7-3.0-4.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 08 16:07:52 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

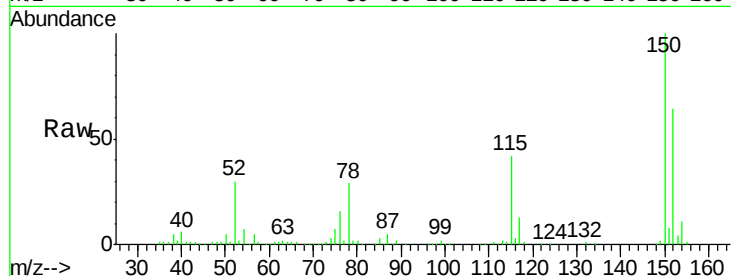
ClientSampleId :

SB-7-3.0-4.0

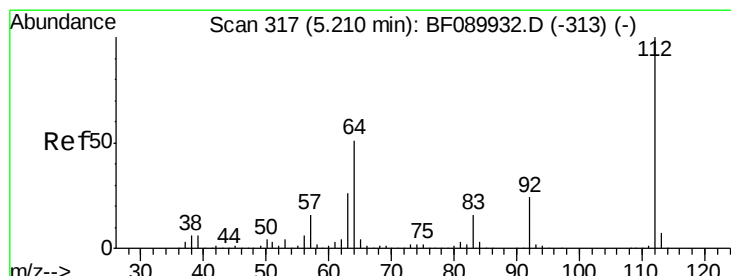
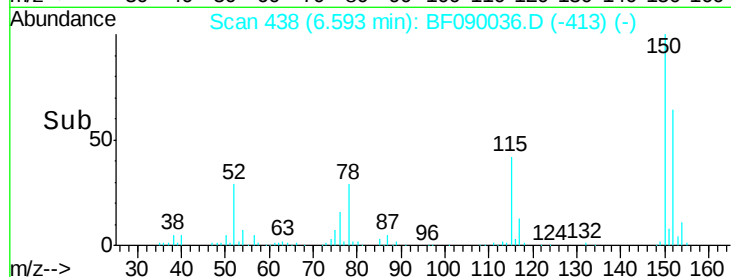
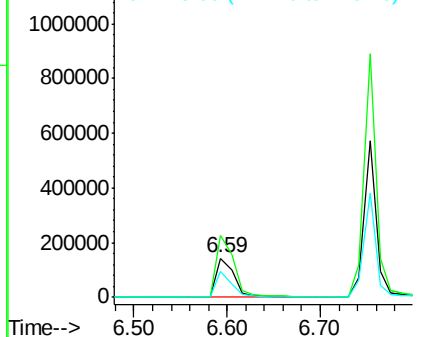
Tgt Ion:	152	Resp:	196412
Ion Ratio	Lower	Upper	
152	100		
150	157.0	127.4	191.2
115	65.8	46.3	69.5

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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: 99.92 ng

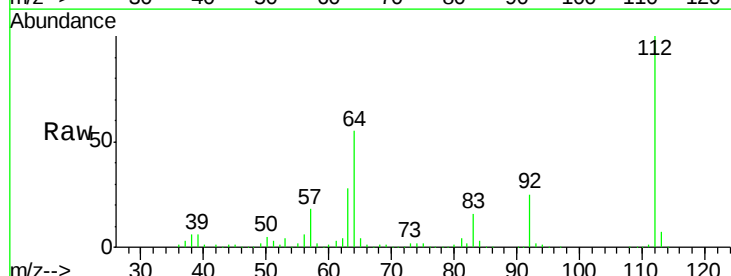
RT: 5.18 min Scan# 314

Delta R.T. 0.01 min

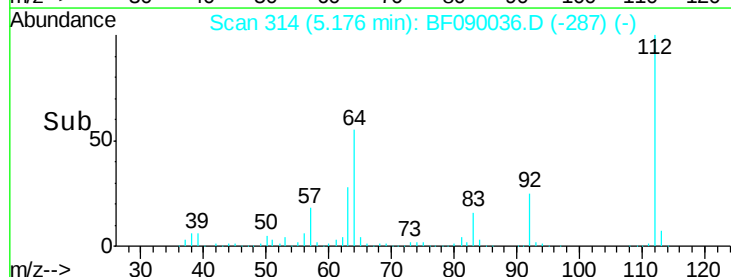
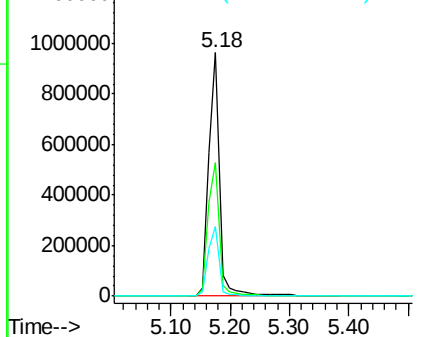
Lab File: BF090036.D

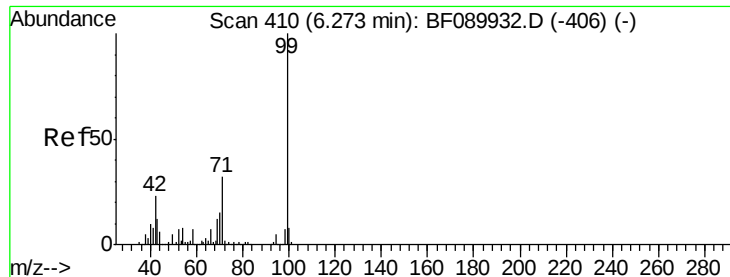
Acq: 8 Sep 2016 20:46

Tgt Ion:	112	Resp:	1226068
Ion Ratio	Lower	Upper	
112	100		
64	54.6	41.1	61.7
63	28.4	21.2	31.8



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: 107.87 ng

RT: 6.25 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0

Tgt Ion: 99 Resp: 1608431

Ion Ratio Lower Upper

99 100

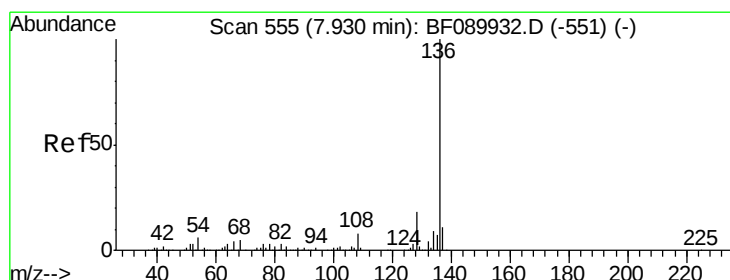
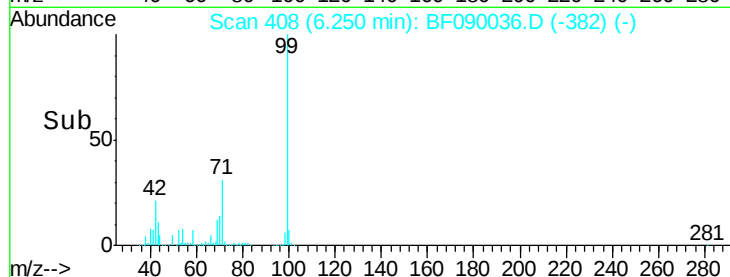
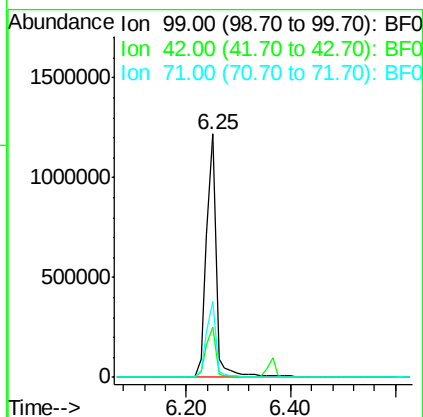
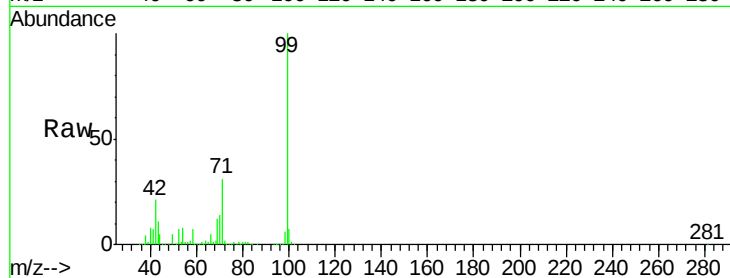
42 20.7 18.6 27.8

71 31.4 25.8 38.6

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Tgt Ion: 136 Resp: 802341

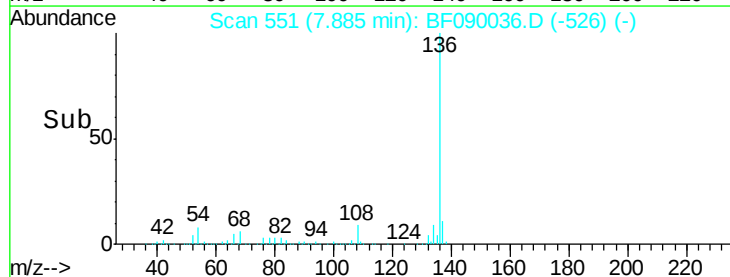
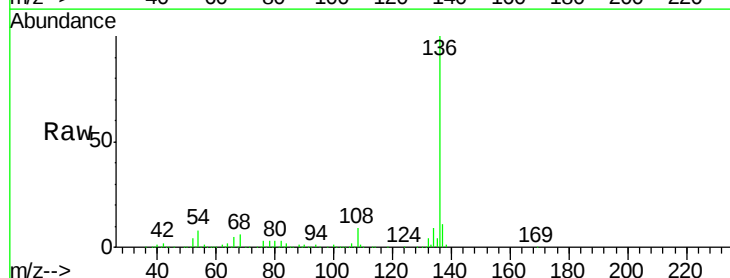
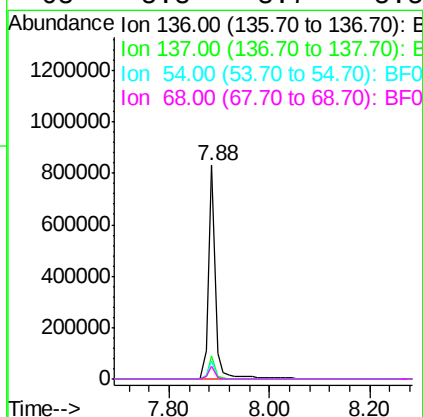
Ion Ratio Lower Upper

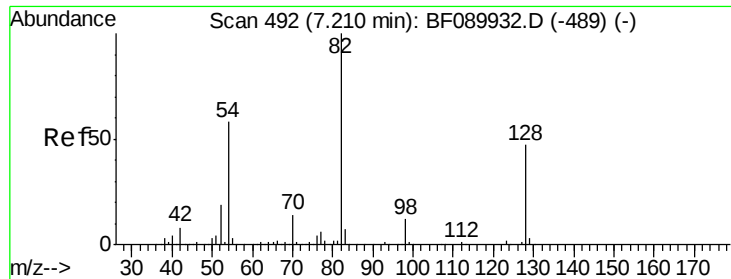
136 100

137 11.0 8.3 12.5

54 8.4 4.8 7.2#

68 5.8 3.7 5.5#





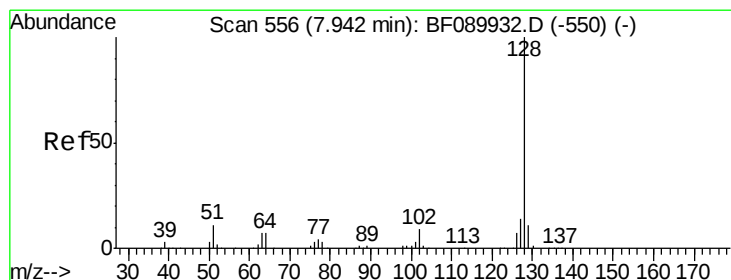
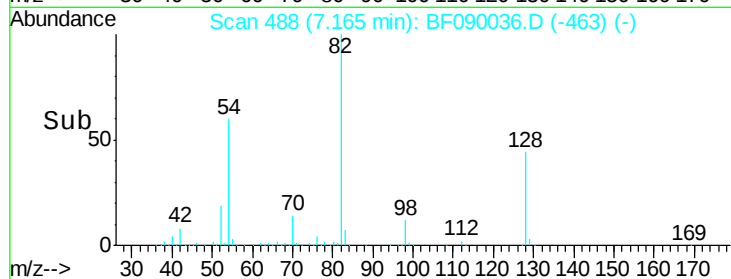
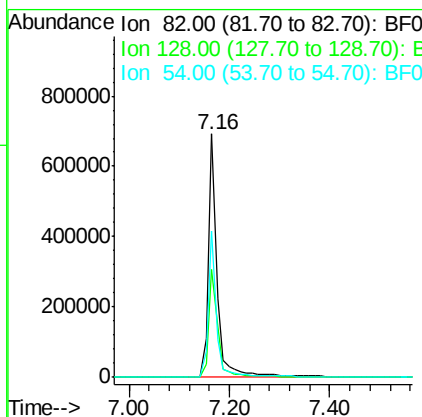
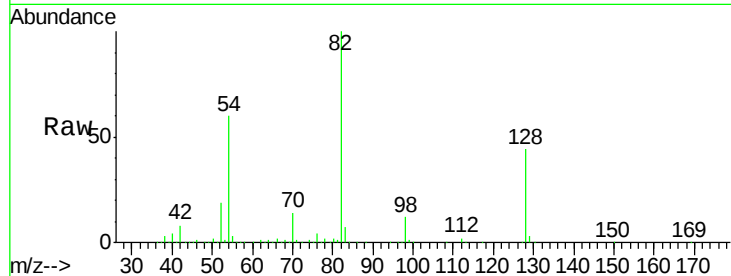
#23
 Nitrobenzene-d5
 Concen: 61.59 ng
 RT: 7.16 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: BF090036.D
 Acq: 8 Sep 2016 20:46

Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.1	37.8	56.8
54	60.1	46.9	70.3

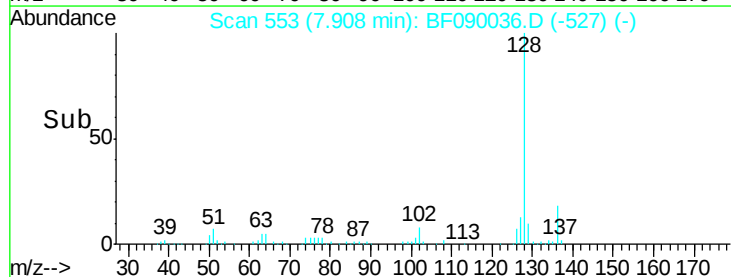
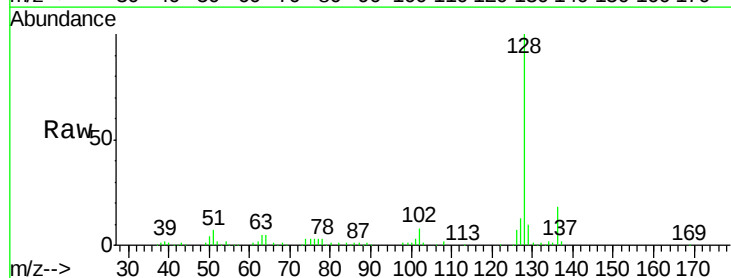
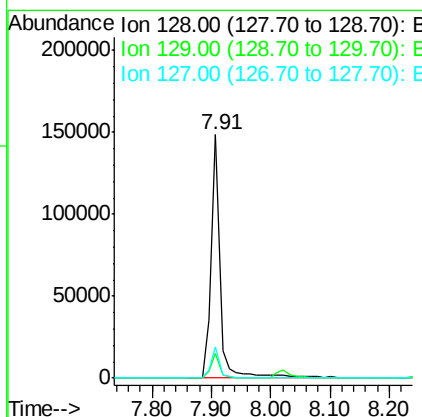
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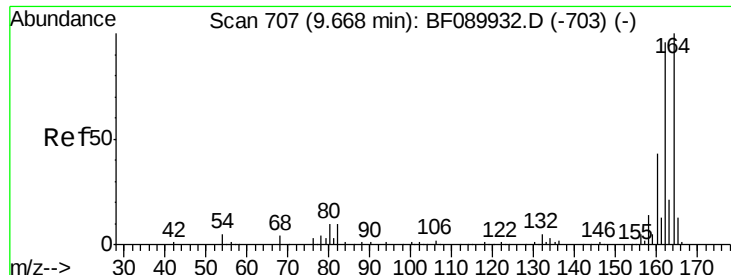
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#31
 Naphthalene
 Concen: 3.95 ng
 RT: 7.91 min Scan# 553
 Delta R.T. 0.00 min
 Lab File: BF090036.D
 Acq: 8 Sep 2016 20:46

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.0	9.4	14.0
127	12.7	10.7	16.1





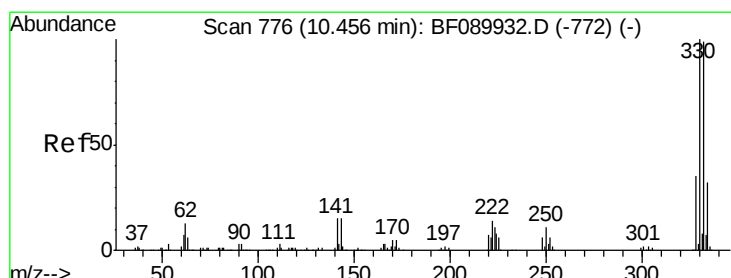
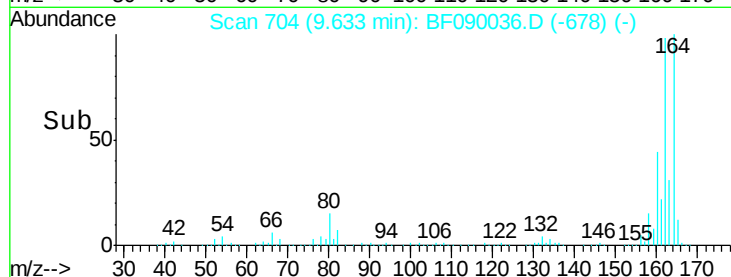
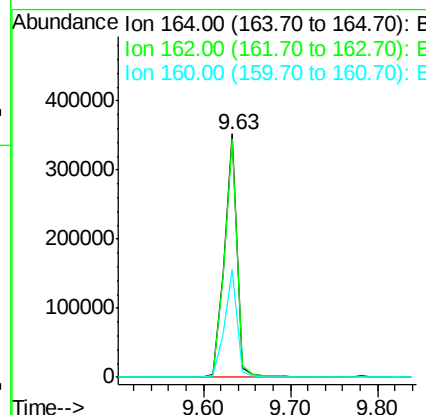
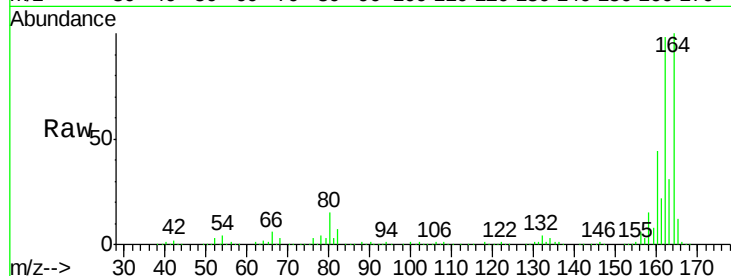
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.63 min Scan# 704
Delta R.T. 0.00 min
Lab File: BF090036.D
Acq: 8 Sep 2016 20:46

Instrument :
BNA_F
ClientSampleId :
SB-7-3.0-4.0

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.7	77.1	115.7
160	44.3	35.3	52.9

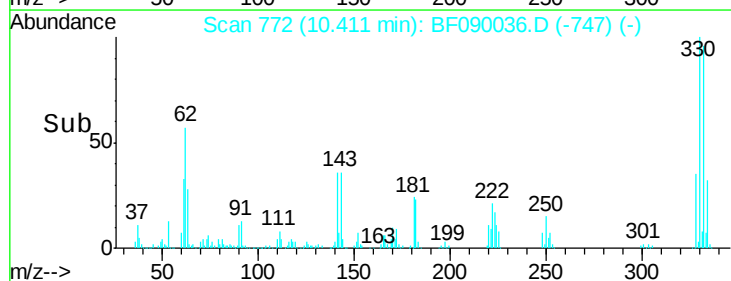
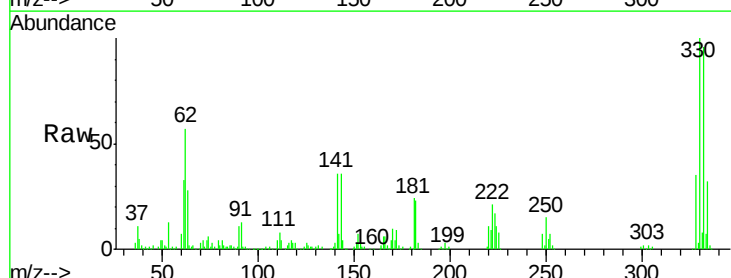
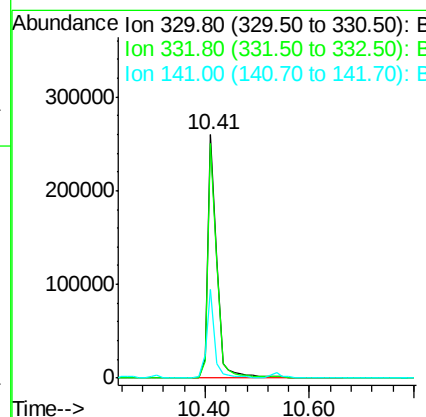
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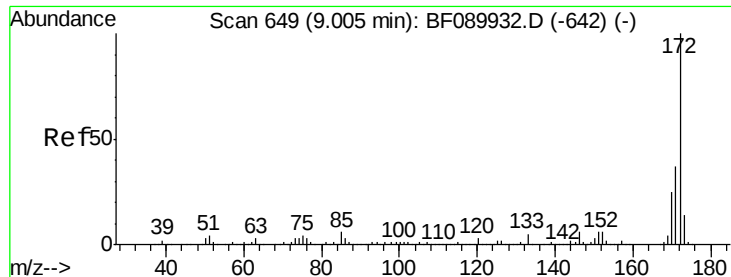
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#41
2,4,6-Tribromophenol
Concen: 86.54 ng
RT: 10.41 min Scan# 772
Delta R.T. -0.01 min
Lab File: BF090036.D
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Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.6	117.8
141	32.1	23.3	34.9





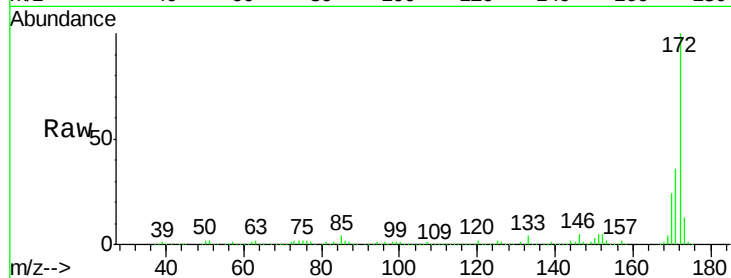
#44
2-Fluorobiphenyl
Concen: 77.34 ng
RT: 8.97 min Scan# 646
Delta R.T. 0.00 min
Lab File: BF090036.D
Acq: 8 Sep 2016 20:46

Instrument :
BNA_F
ClientSampleId :
SB-7-3.0-4.0

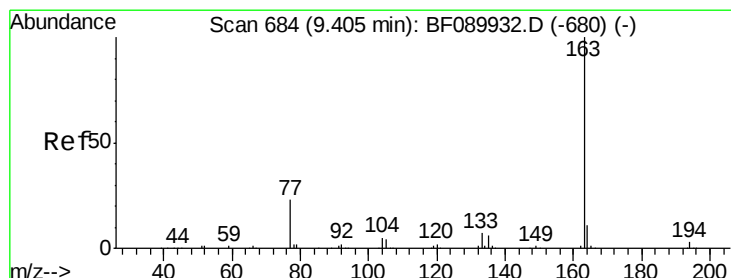
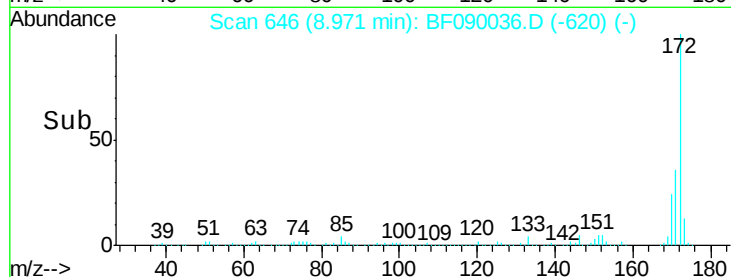
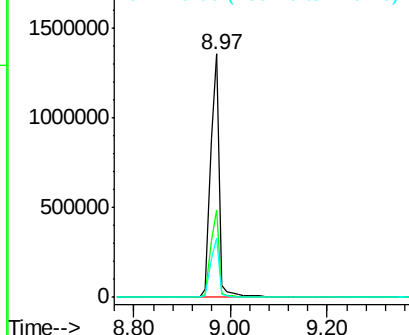
Tgt Ion:172 Resp: 1729211
Ion Ratio Lower Upper
172 100
171 36.1 29.4 44.2
170 24.2 20.1 30.1

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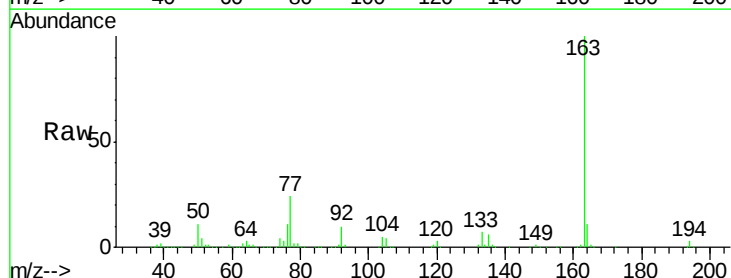


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

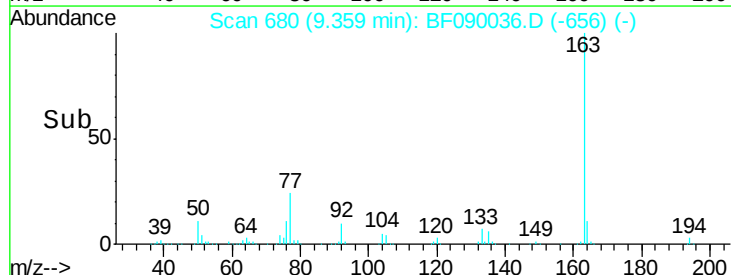
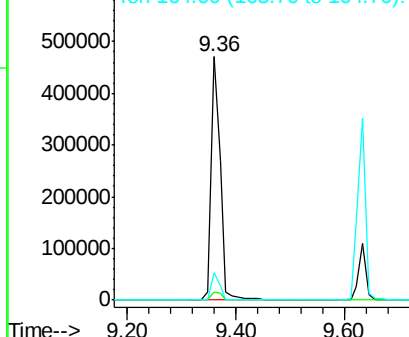


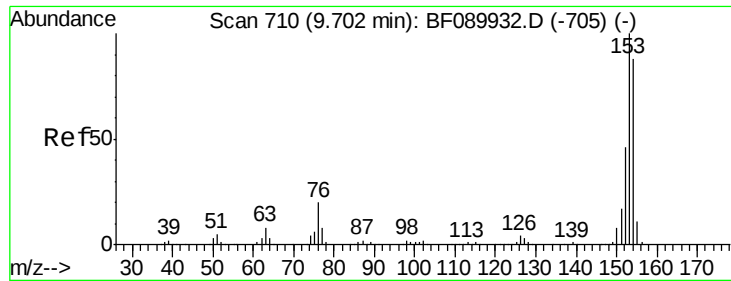
#49
Dimethylphthalate
Concen: 20.90 ng
RT: 9.36 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF090036.D
Acq: 8 Sep 2016 20:46

Tgt Ion:163 Resp: 554406
Ion Ratio Lower Upper
163 100
194 3.2 2.7 4.1
164 11.5 9.0 13.4



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 25.64 ng

RT: 9.67 min Scan# 707

Delta R.T. 0.00 min

Lab File: BF090036.D

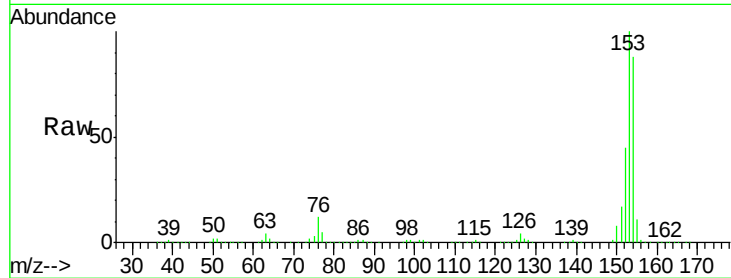
Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

ClientSampleId :

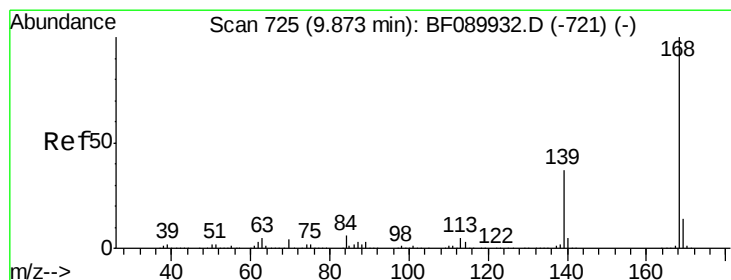
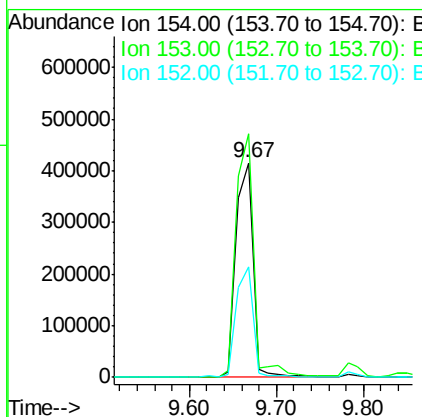
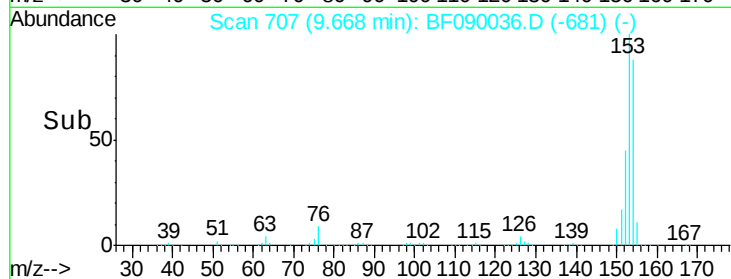
SB-7-3.0-4.0



Tgt Ion:	154	Resp:	561395
Ion Ratio	Lower	Upper	
154	100		
153	113.5	90.6	135.8
152	51.6	42.4	63.6

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#54

Dibenzofuran

Concen: 10.50 ng

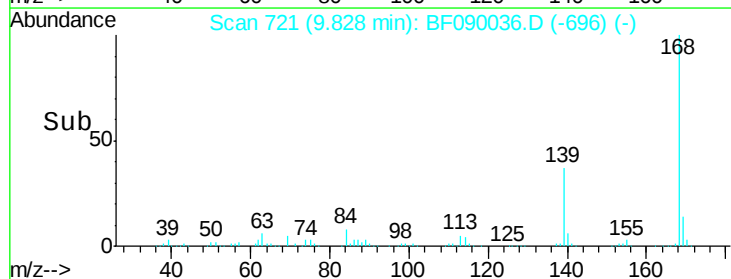
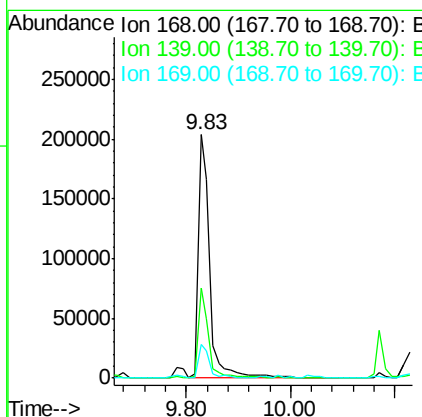
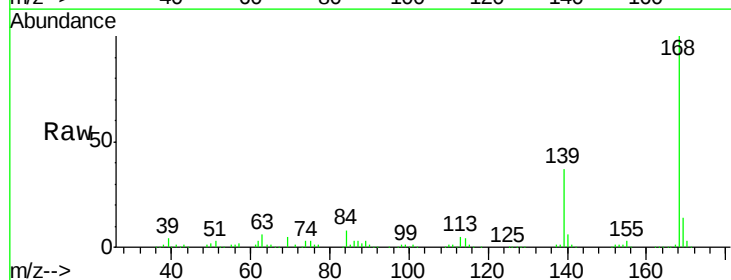
RT: 9.83 min Scan# 721

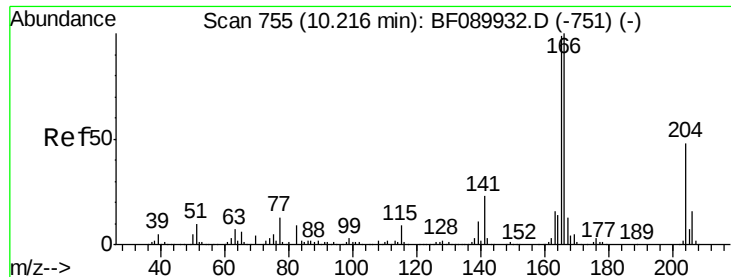
Delta R.T. -0.01 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Tgt Ion:	168	Resp:	307994
Ion Ratio	Lower	Upper	
168	100		
139	36.9	29.5	44.3
169	14.0	10.8	16.2





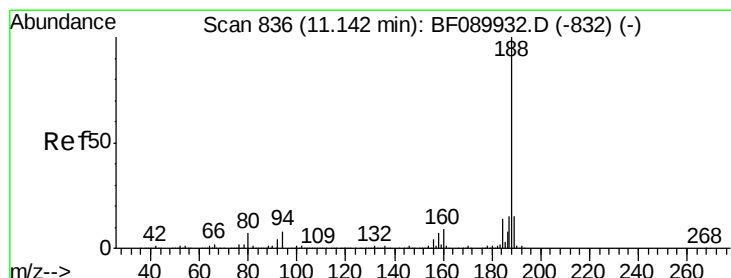
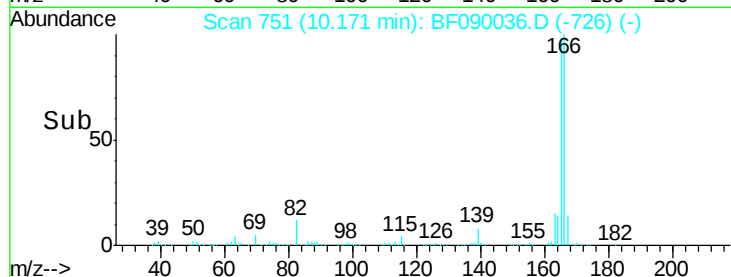
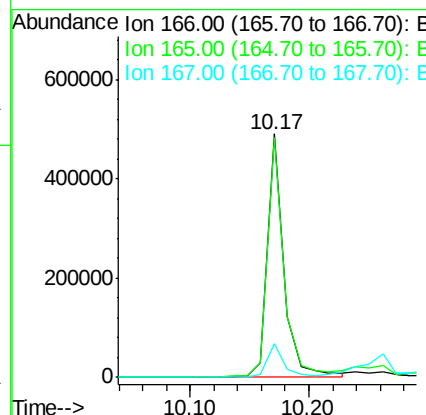
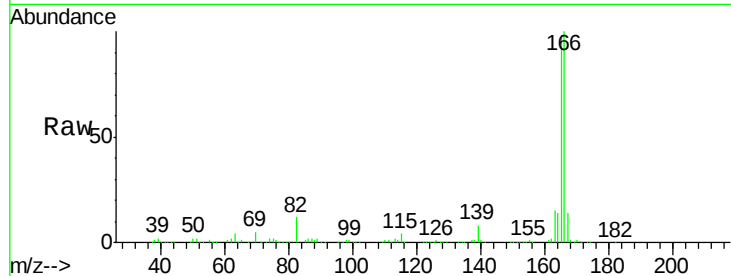
#57
Fluorene
 Concen: 22.37 ng
 RT: 10.17 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: BF090036.D
 Acq: 8 Sep 2016 20:46

Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	479773		
165	98.5	78.6	118.0	
167	14.1	10.6	15.8	

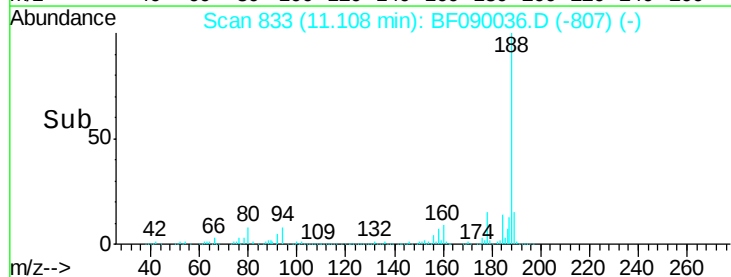
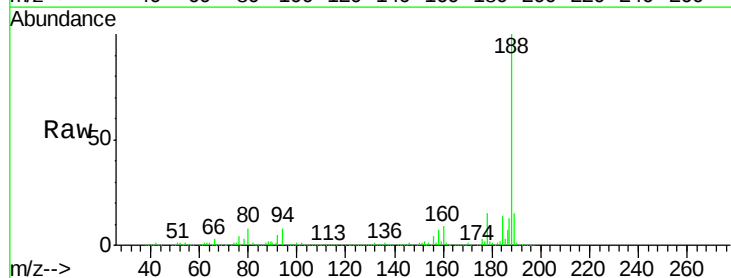
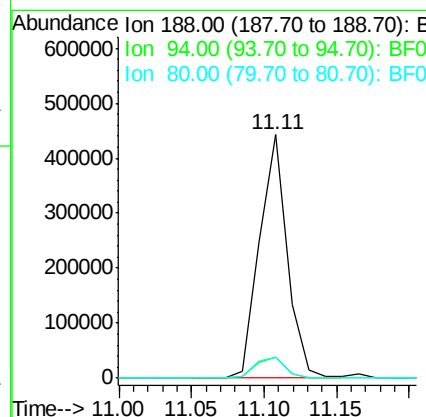
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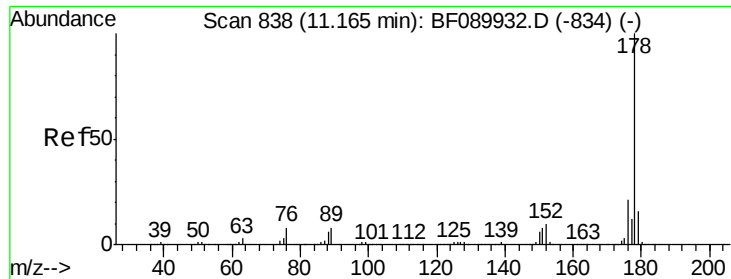
Sohil
 9/9/2016 8:39:53 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.11 min Scan# 833
 Delta R.T. 0.00 min
 Lab File: BF090036.D
 Acq: 8 Sep 2016 20:46

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	587823		
94	8.5	5.9	8.9	
80	8.4	5.8	8.8	





#70

Phenanthrene

Concen: 146.90 ng

RT: 11.14 min Scan# 836

Delta R.T. 0.01 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0

Tgt Ion:178 Resp: 4300141

Ion Ratio Lower Upper

178 100

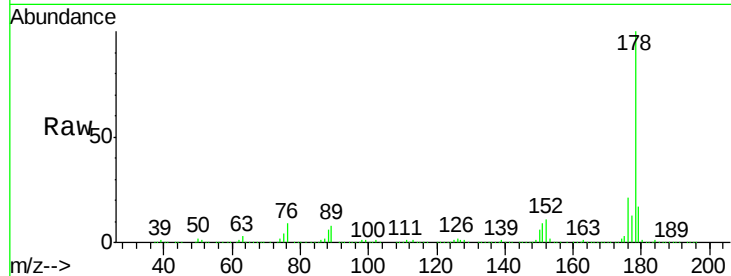
176 21.4 16.5 24.7

179 16.7 12.8 19.2

Manual Integrations
APPROVED

Sohil

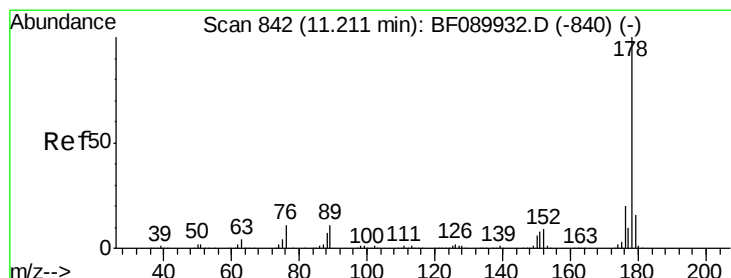
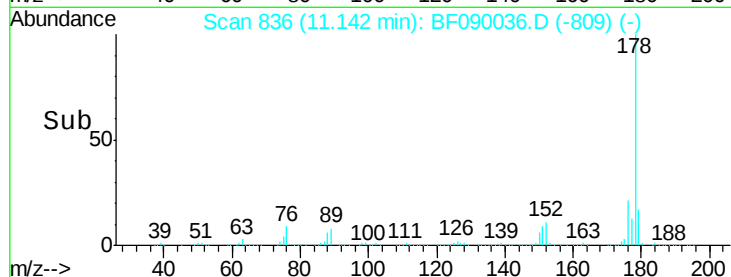
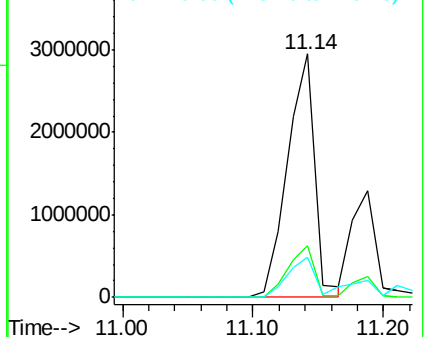
9/9/2016 8:39:53 AM



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: 57.82 ng

RT: 11.19 min Scan# 840

Delta R.T. 0.01 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Tgt Ion:178 Resp: 1716592

Ion Ratio Lower Upper

178 100

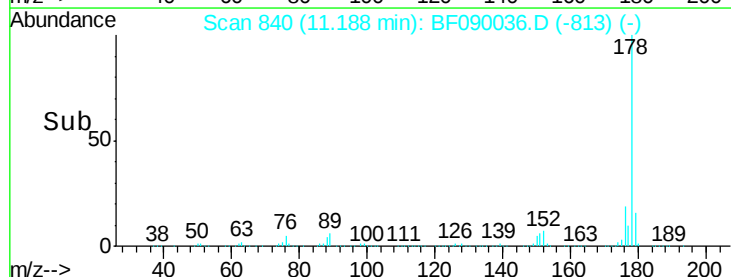
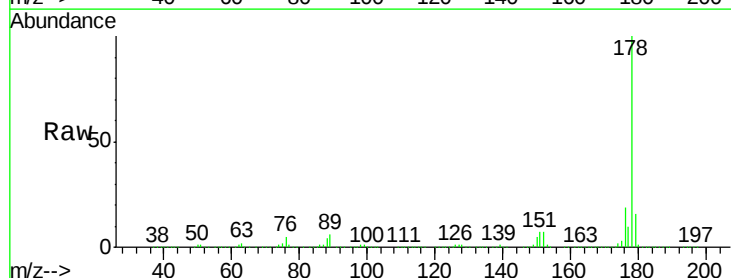
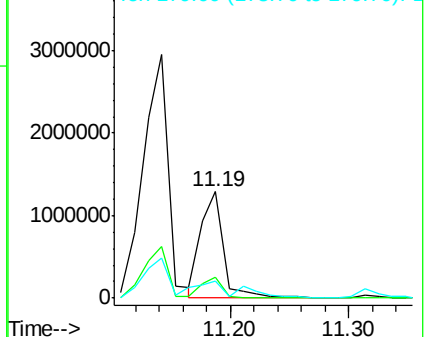
176 19.4 15.8 23.8

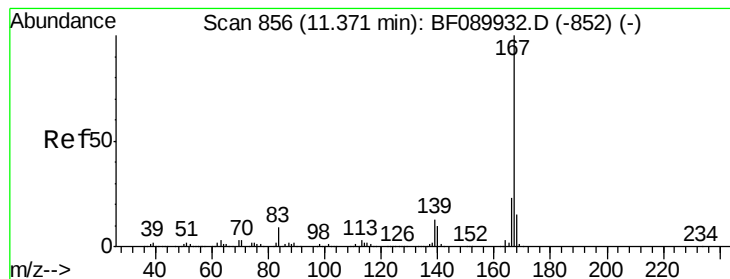
179 15.6 13.0 19.4

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





#72

Carbazole

Concen: 33.31 ng

RT: 11.34 min Scan# 853

Delta R.T. 0.00 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

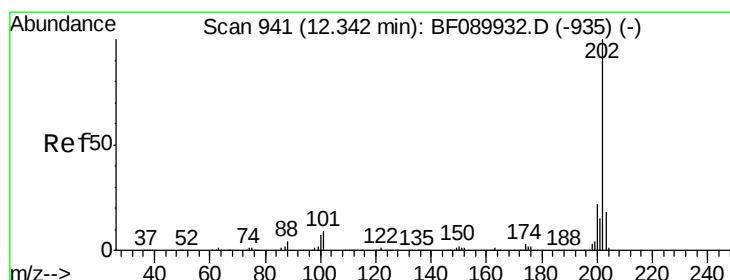
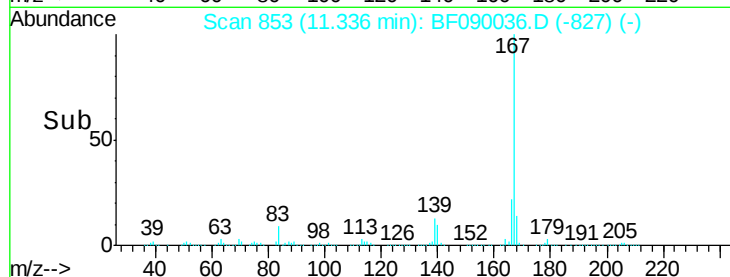
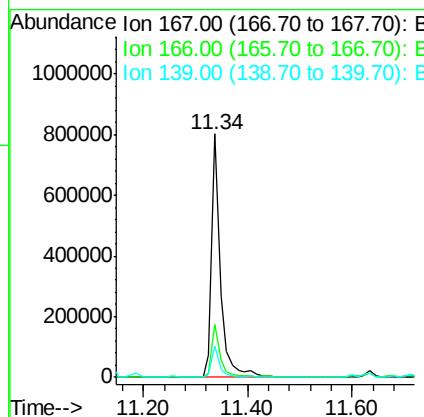
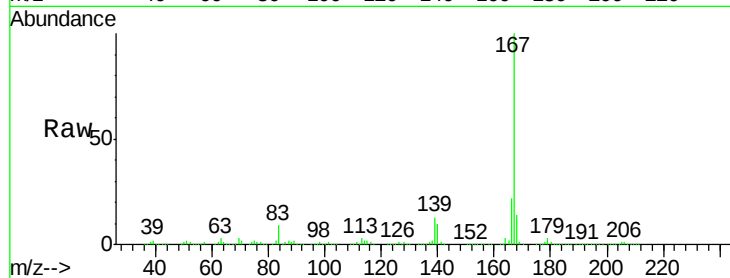
ClientSampled :

SB-7-3.0-4.0

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.1	27.1
139	12.7	10.4	15.6

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#74

Fluoranthene

Concen: 201.39 ng

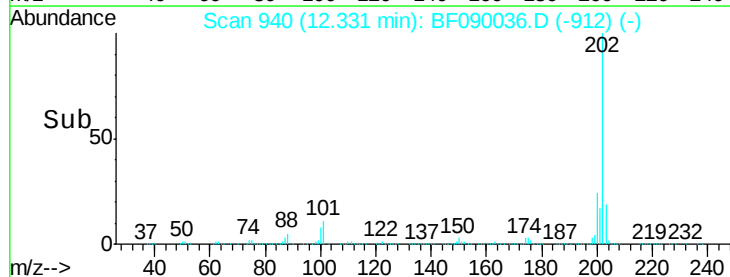
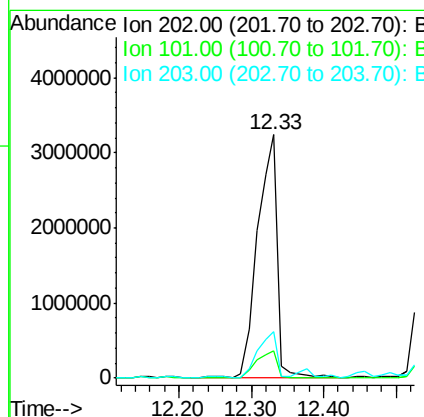
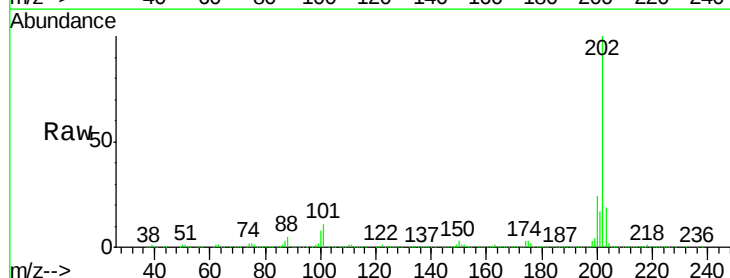
RT: 12.33 min Scan# 940

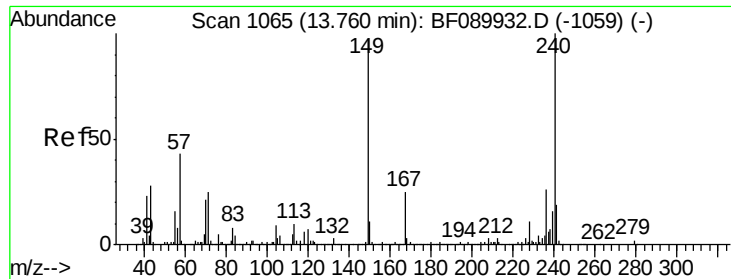
Delta R.T. 0.02 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	28.5
203	19.2	0.0	38.0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.74 min Scan# 1063

Delta R.T. 0.01 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

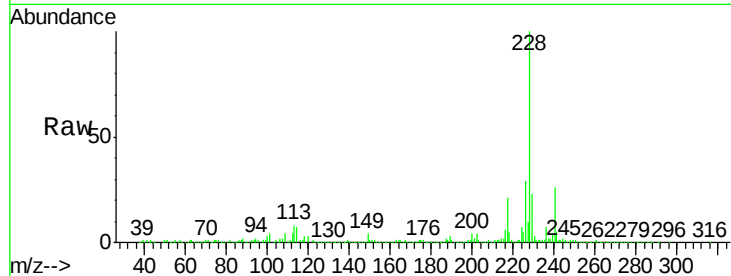
ClientSampleId :

SB-7-3.0-4.0

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.2	5.7	8.5#
236	26.8	21.3	31.9

Manual Integrations
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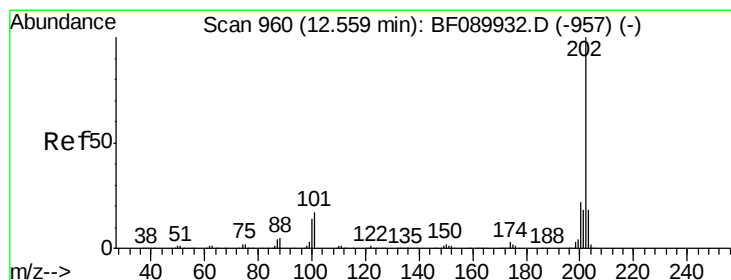
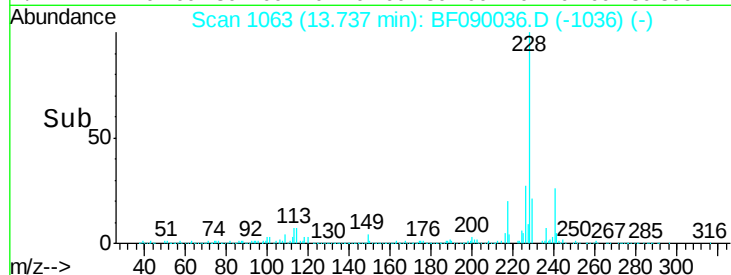
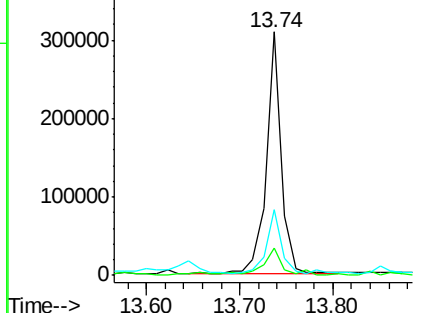
Sohil
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 230.21 ng

RT: 12.56 min Scan# 960

Delta R.T. 0.02 min

Lab File: BF090036.D

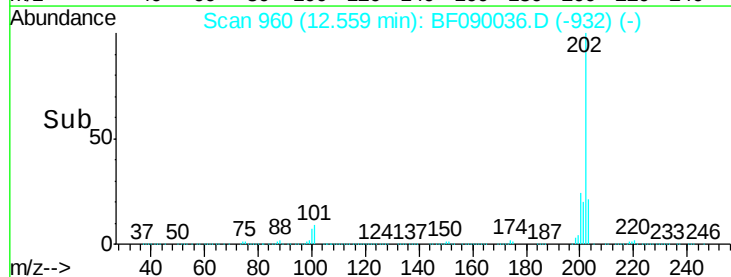
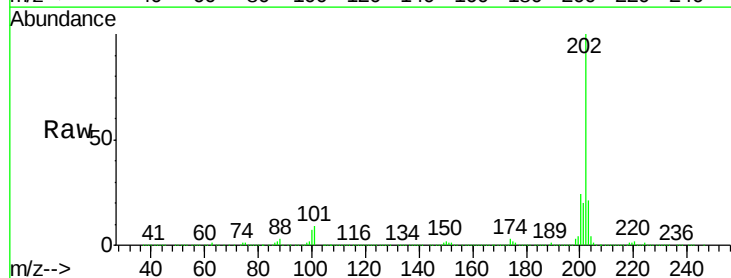
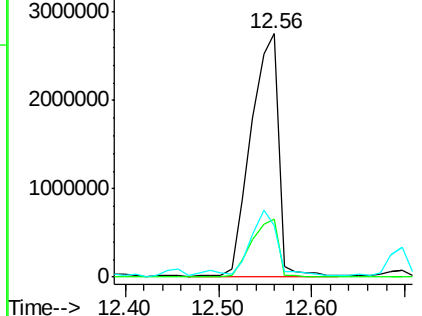
Acq: 8 Sep 2016 20:46

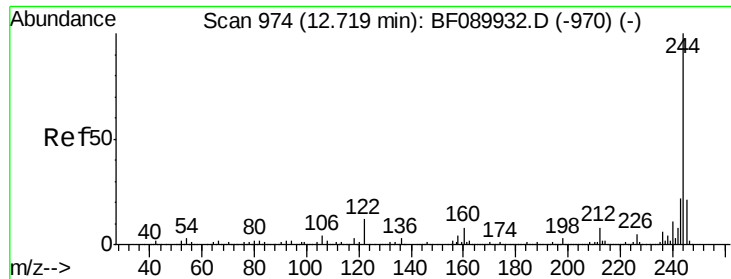
Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.6	17.6	26.4
203	21.1	14.6	21.8

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





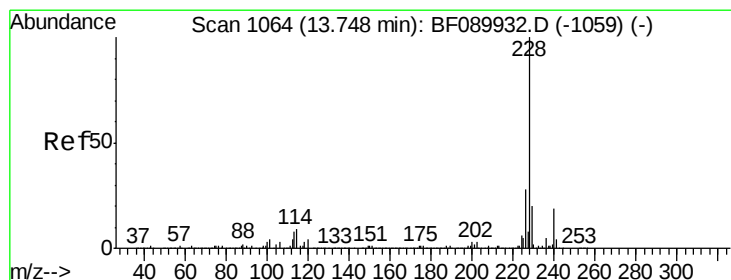
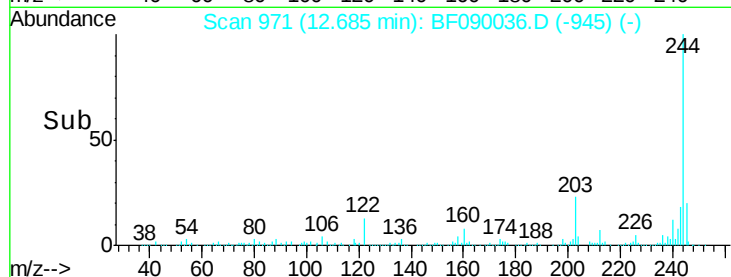
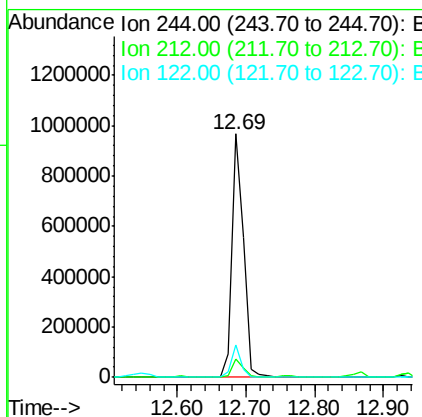
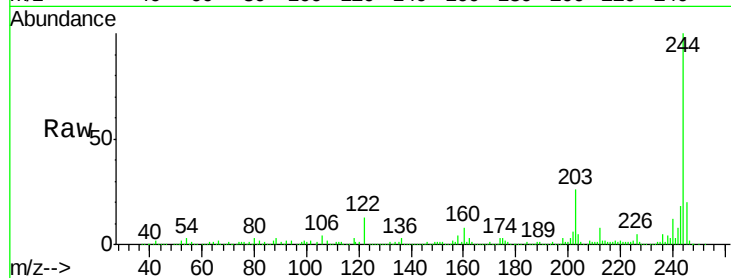
#78
 Terphenyl-d14
 Concen: 80.89 ng
 RT: 12.69 min Scan# 971
 Delta R.T. 0.00 min
 Lab File: BF090036.D
 Acq: 8 Sep 2016 20:46

Instrument :
 BNA_F
 ClientSampleId :
 SB-7-3.0-4.0

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.1	9.1
122	13.1	9.6	14.4

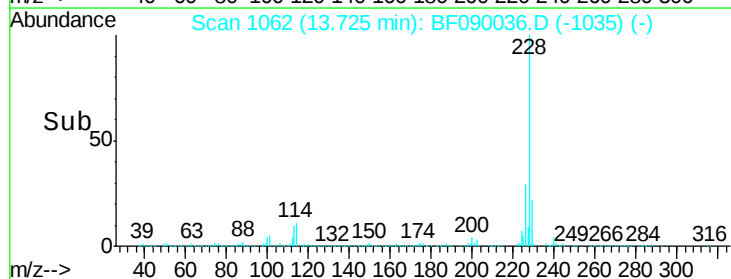
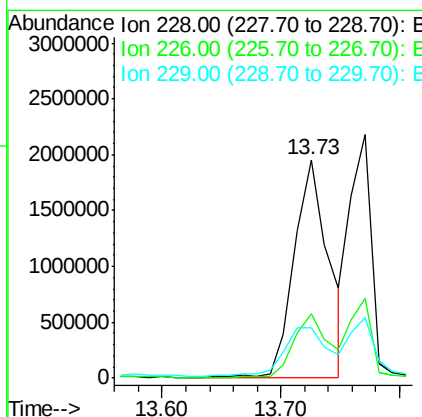
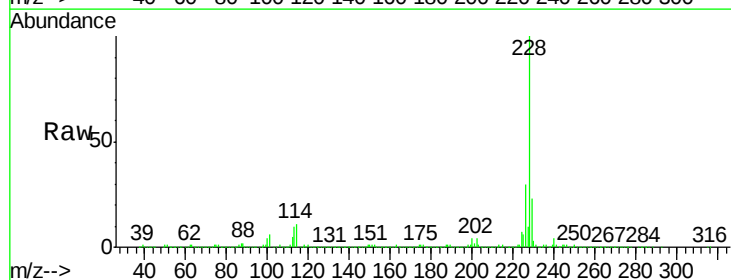
Manual Integrations
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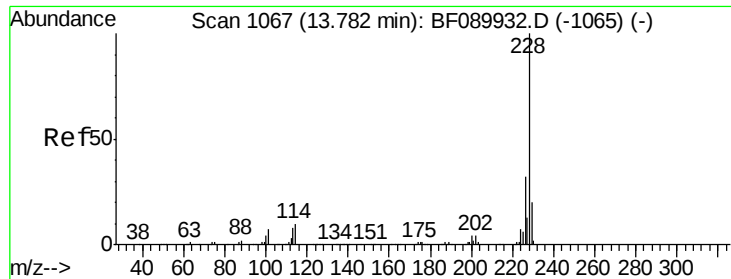
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#80
 Benzo(a)anthracene
 Concen: 181.92 ng
 RT: 13.73 min Scan# 1062
 Delta R.T. 0.01 min
 Lab File: BF090036.D
 Acq: 8 Sep 2016 20:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.2	33.2
229	23.2	15.8	23.6





#82

Chrysene

Concen: 137.03 ng m

RT: 13.77 min Scan# 1066

Delta R.T. 0.02 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

ClientSampled :

SB-7-3.0-4.0

Tgt Ion:228 Resp: 2755363

Ion Ratio Lower Upper

228 100

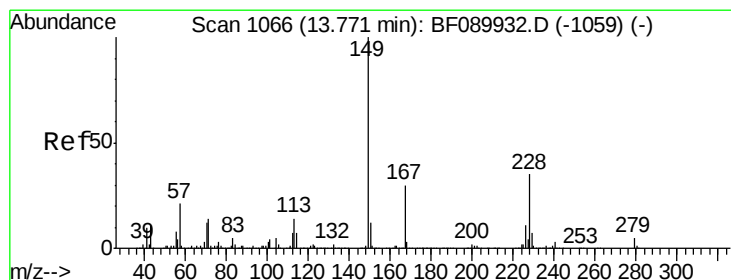
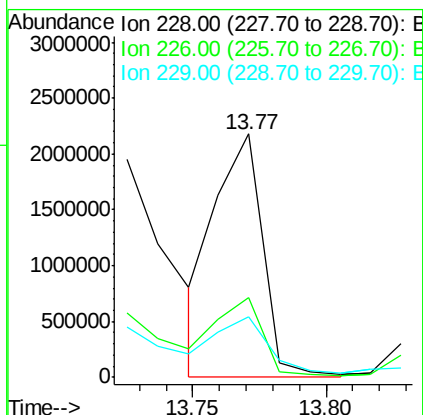
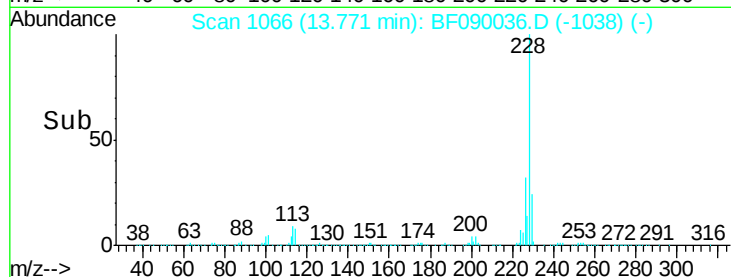
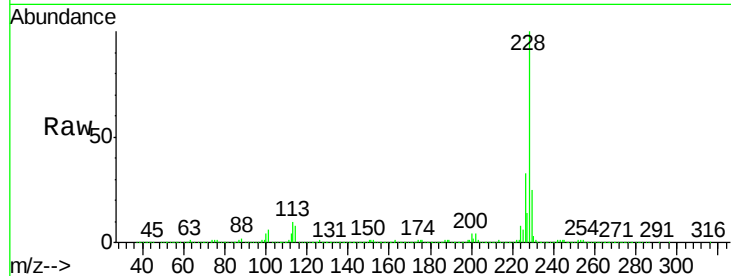
226 32.6 25.2 37.8

229 24.7 16.2 24.2#

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#83

Bis(2-ethylhexyl)phthalate

Concen: 4.66 ng

RT: 13.74 min Scan# 1063

Delta R.T. 0.00 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

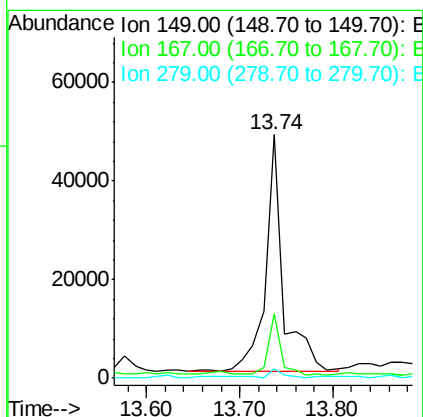
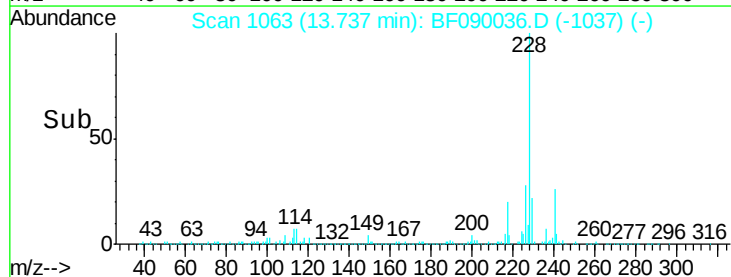
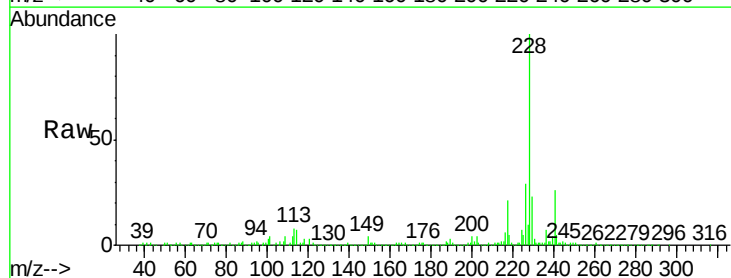
Tgt Ion:149 Resp: 64353

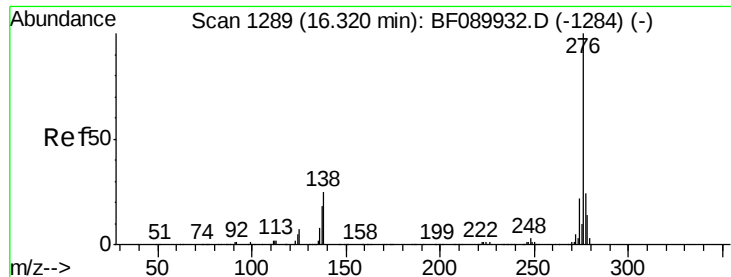
Ion Ratio Lower Upper

149 100

167 26.6 23.6 35.4

279 3.6 3.4 5.2





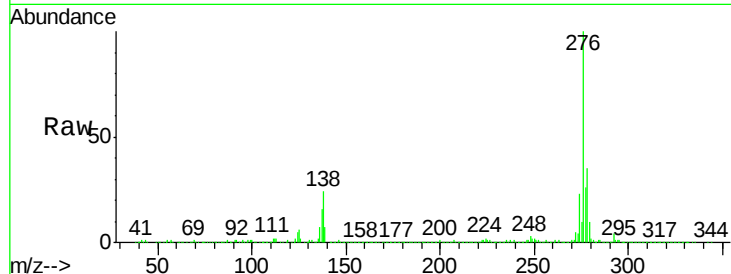
#85
Indeno(1,2,3-cd)pyrene
Concen: 103.59 ng
RT: 16.31 min Scan# 1288
Delta R.T. 0.03 min
Lab File: BF090036.D
Acq: 8 Sep 2016 20:46

Instrument :
BNA_F
ClientSampleId :
SB-7-3.0-4.0

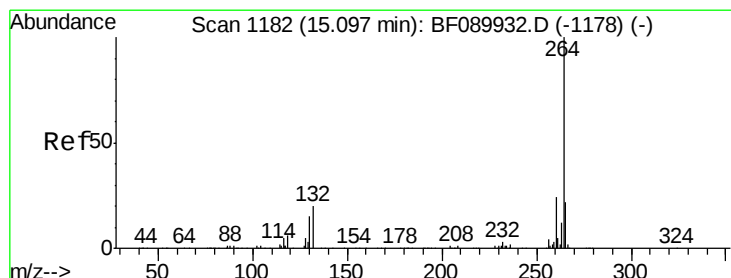
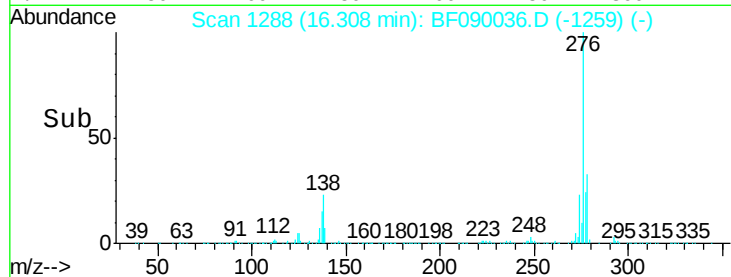
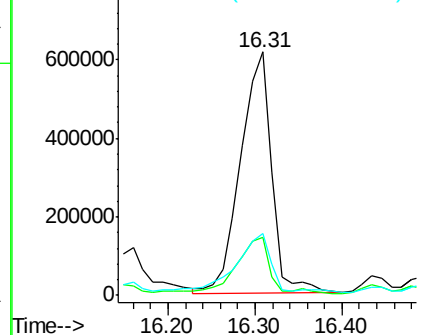
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.0	22.6	34.0
277	26.1	20.1	30.1

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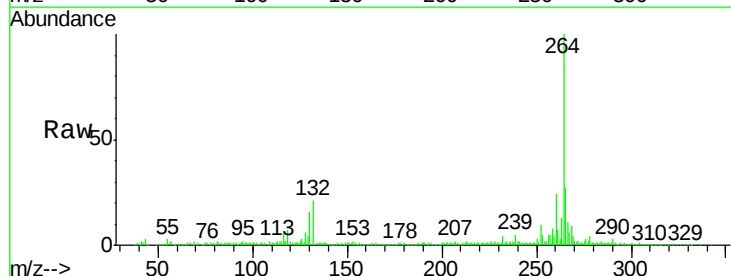


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

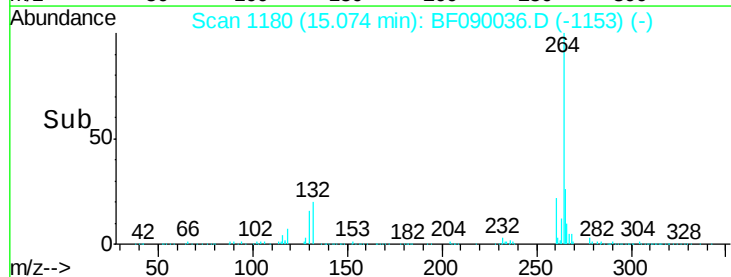
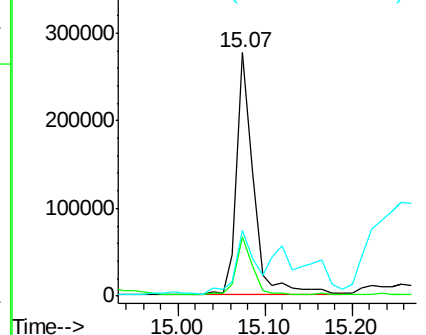


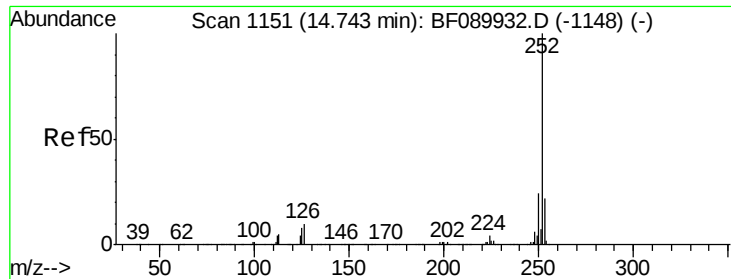
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.07 min Scan# 1180
Delta R.T. 0.01 min
Lab File: BF090036.D
Acq: 8 Sep 2016 20:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.0
265	26.9	17.4	26.2#



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: 157.67 ng m

RT: 14.73 min Scan# 1150

Delta R.T. 0.02 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0

Tgt Ion:252 Resp: 3668167
Ion Ratio Lower Upper

252 100

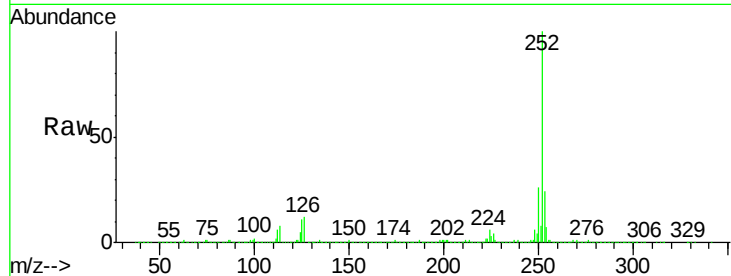
253 23.7 18.0 27.0

125 11.0 5.7 8.5#

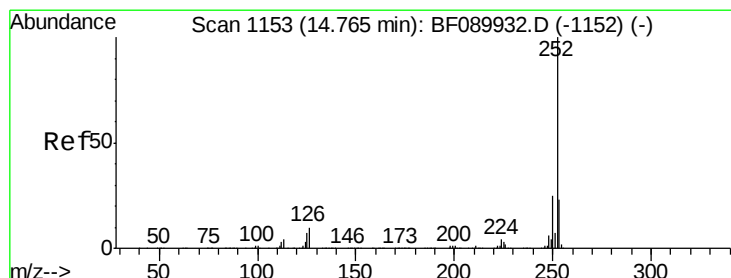
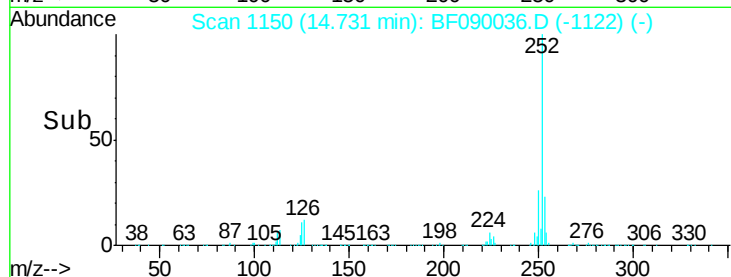
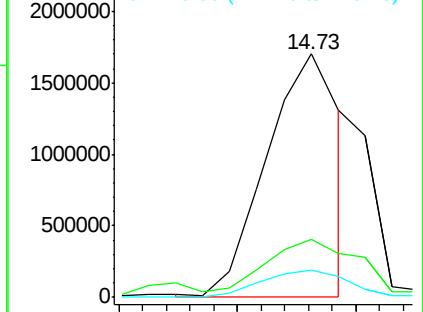
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 43.64 ng m

RT: 14.74 min Scan# 1151

Delta R.T. 0.01 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

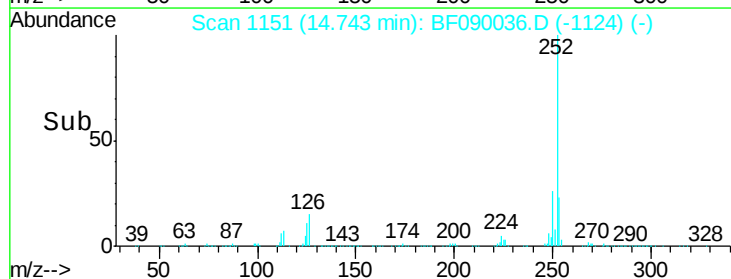
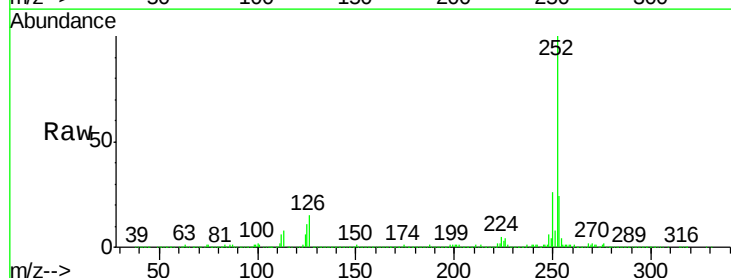
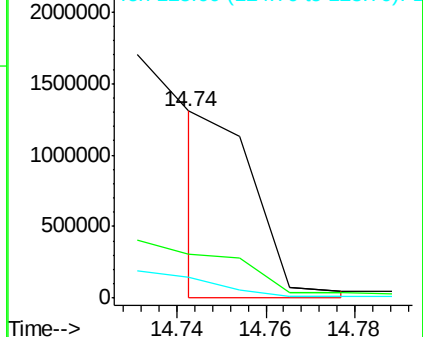
Tgt Ion:252 Resp: 861627
Ion Ratio Lower Upper

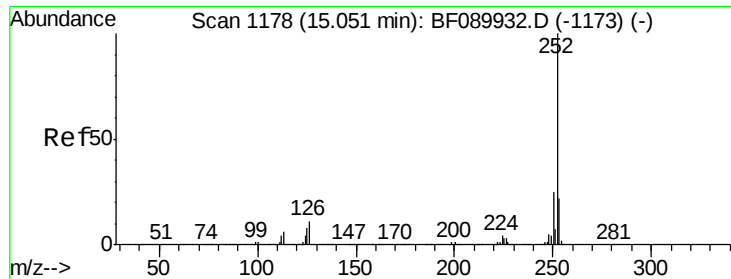
252 100

253 23.6 17.8 26.8

125 11.4 7.3 10.9#

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





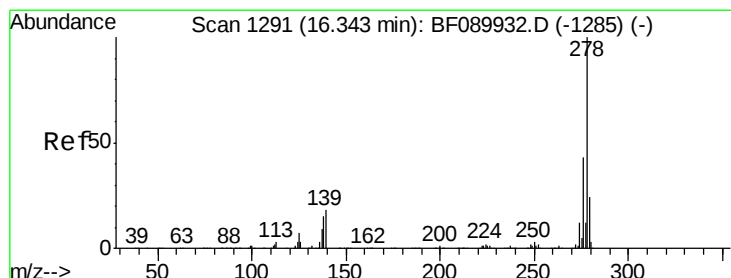
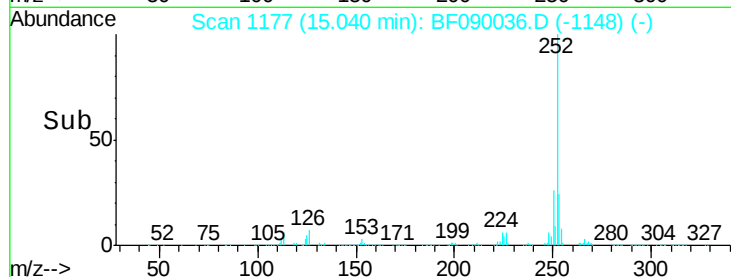
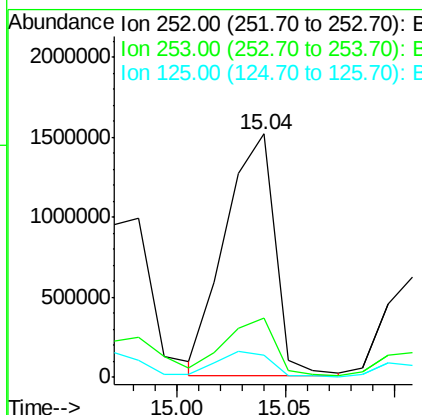
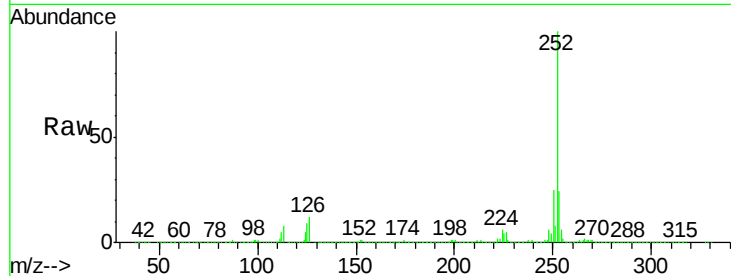
#89
Benzo(a)pyrene
Concen: 120.64 ng
RT: 15.04 min Scan# 1177
Delta R.T. 0.03 min
Lab File: BF090036.D
Acq: 8 Sep 2016 20:46

Instrument :
BNA_F
ClientSampleId :
SB-7-3.0-4.0

Tgt Ion:252 Resp: 2404717
Ion Ratio Lower Upper
252 100
253 24.4 17.5 26.3
125 9.2 6.3 9.5

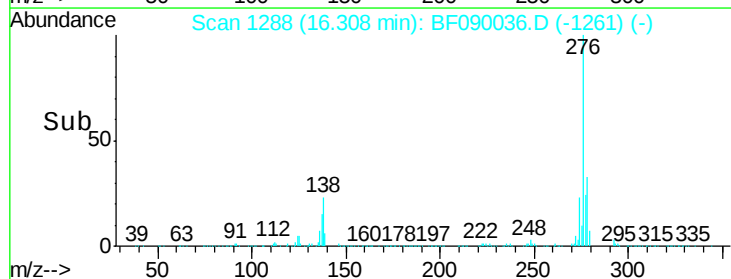
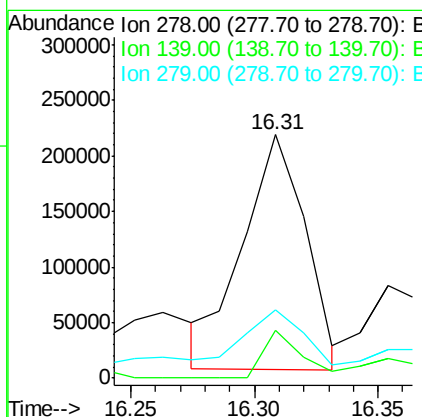
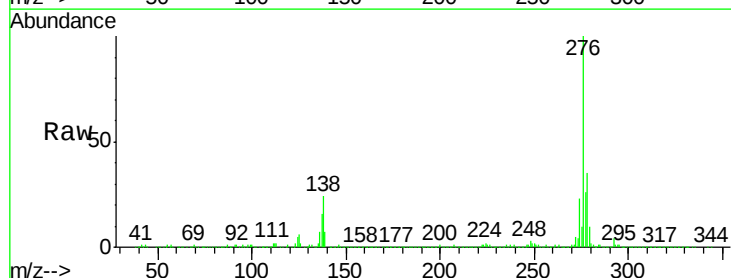
Manual Integrations
APPROVED

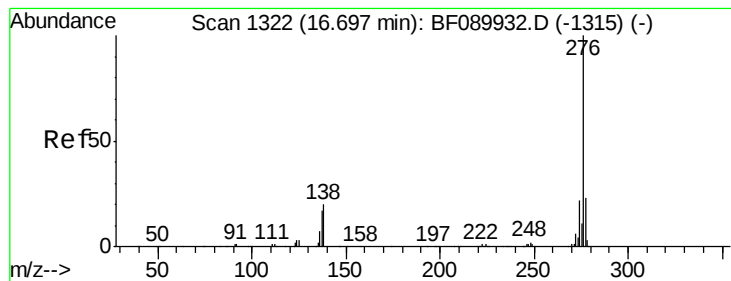
Sohil
9/9/2016 8:39:53 AM



#90
Dibenzo(a,h)anthracene
Concen: 25.69 ng m
RT: 16.31 min Scan# 1288
Delta R.T. 0.01 min
Lab File: BF090036.D
Acq: 8 Sep 2016 20:46

Tgt Ion:278 Resp: 375259
Ion Ratio Lower Upper
278 100
139 19.6 13.4 20.2
279 28.0 19.4 29.2





#91

Benzo(g,h,i)perylene

Concen: 95.33 ng

RT: 16.67 min Scan# 1320

Delta R.T. 0.03 min

Lab File: BF090036.D

Acq: 8 Sep 2016 20:46

Instrument :

BNA_F

ClientSampleId :

SB-7-3.0-4.0

Tgt Ion: 276 Resp: 1401390

Ion Ratio Lower Upper

276 100

277 24.5 19.0 28.4

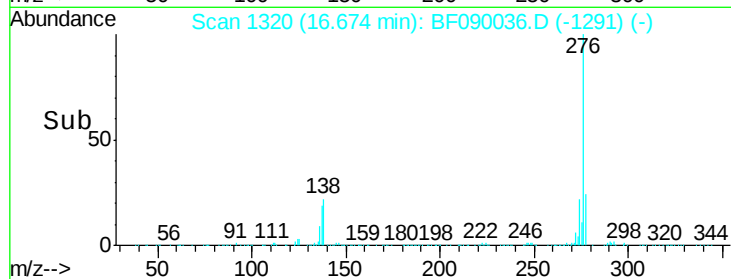
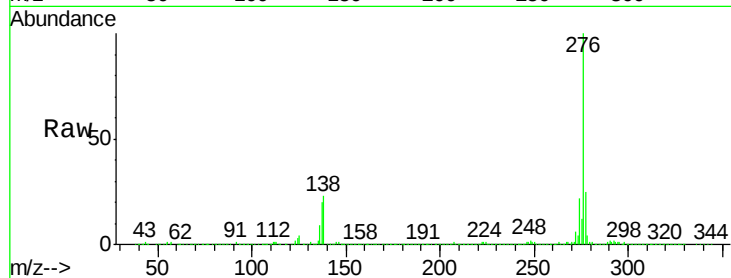
138 23.2 16.4 24.6

Manual Integrations

APPROVED

Sohil

9/9/2016 8:39:53 AM



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

