

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021715\
 Data File : BF077351.D
 Acq On : 18 Feb 2015 9:19
 Operator : TP/IZ
 Sample : G1299-02DL 50X
 Misc : S
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP2DL

Manual Integrations
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Quant Time: Feb 18 11:22:22 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 09:45:51 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	66968	20.00	ng	0.00
21) Naphthalene-d8	8.96	136	273631	20.00	ng	0.00
38) Acenaphthene-d10	11.13	164	126531	20.00	ng	-0.01
63) Phenanthrene-d10	12.98	188	258961	20.00	ng	0.00
75) Chrysene-d12	16.27	240	264522	20.00	ng	0.00
86) Perylene-d12	18.01	264	279659	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	7480	1.91	ng	0.00
7) Phenol-d6	6.92	99	9896	1.93	ng	0.00
23) Nitrobenzene-d5	8.06	82	4494	1.14	ng	0.00
41) 2,4,6-Tribromophenol	12.11	330	1501	2.53	ng	0.00
44) 2-Fluorobiphenyl	10.30	172	11324	1.35	ng	0.00
78) Terphenyl-d14	14.98	244	12581	1.08	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.98	128	85628	6.25	ng	99
37) 2-Methylnaphthalene	9.84	142	23535	2.39	ng	# 94
51) Acenaphthene	11.17	154	48201	6.57	ng	100
54) Dibenzofuran	11.39	168	50809	4.57	ng	98
57) Fluorene	11.81	166	57426	6.58	ng	100
70) Phenanthrene	13.01	178	681253	45.27	ng	100
71) Anthracene	13.07	178	155438	10.39	ng	98
72) Carbazole	13.28	167	47829	3.64	ng	98
74) Fluoranthene	14.49	202	536108	35.28	ng	98
77) Pyrene	14.77	202	514721	31.48	ng	100
80) Benzo(a)anthracene	16.26	228	235926	15.31	ng	99
82) Chrysene	16.31	228	188745	12.96	ng	98
85) Indeno(1,2,3-cd)pyrene	19.53	276	117646	7.07	ng	95
87) Benzo(b)fluoranthene	17.55	252	234777m	13.06	ng	
88) Benzo(k)fluoranthene	17.59	252	70187m	4.73	ng	
89) Benzo(a)pyrene	17.94	252	177646	11.35	ng	# 95
91) Benzo(g,h,i)perylene	19.97	276	115316	7.28	ng	98

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

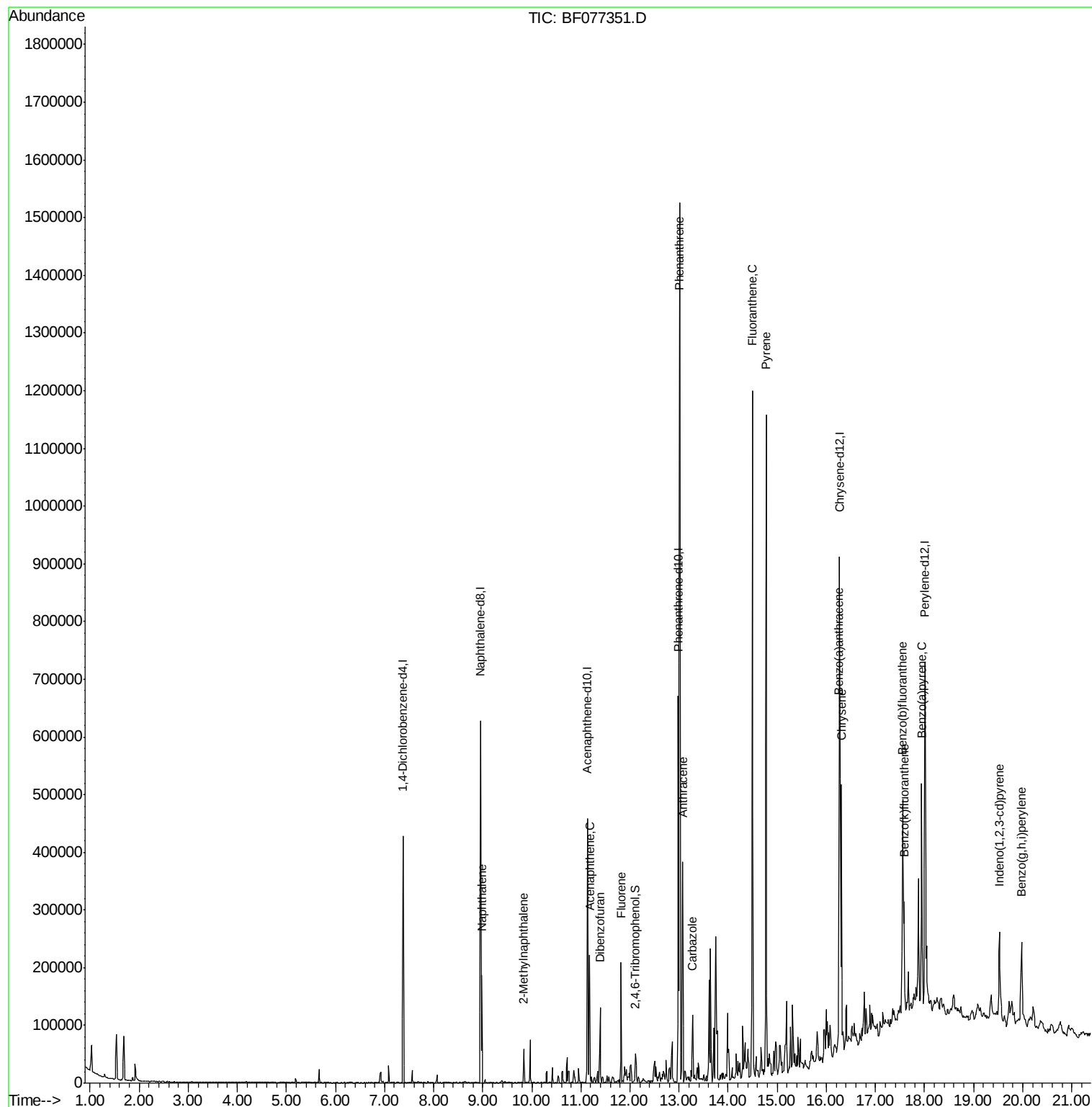
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021715\
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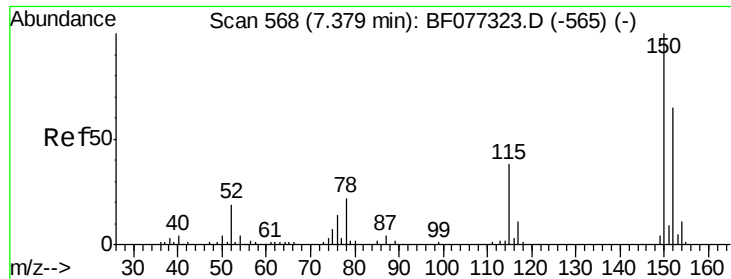
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.38 min Scan# 568

Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Instrument :

BNA_F

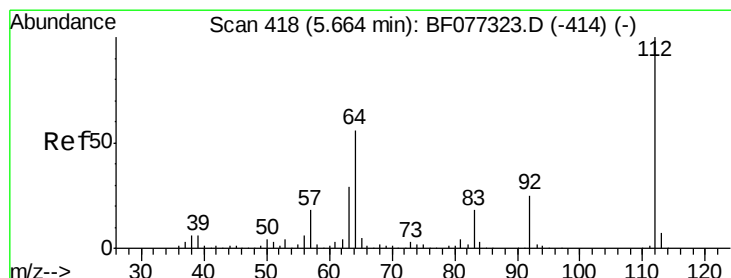
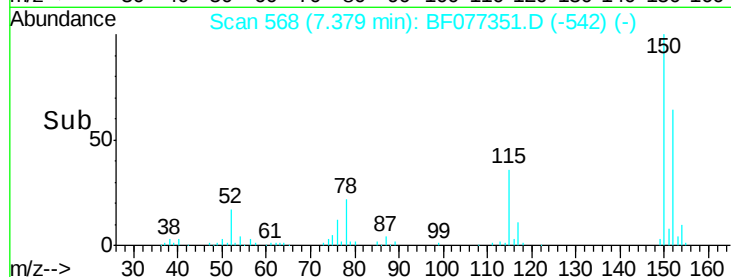
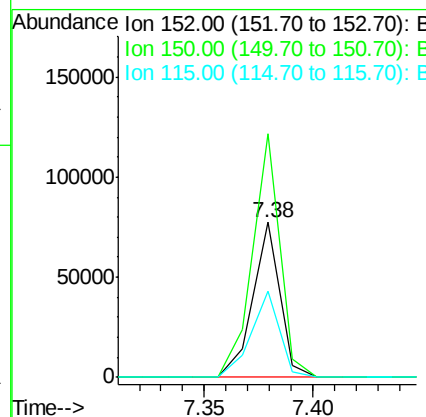
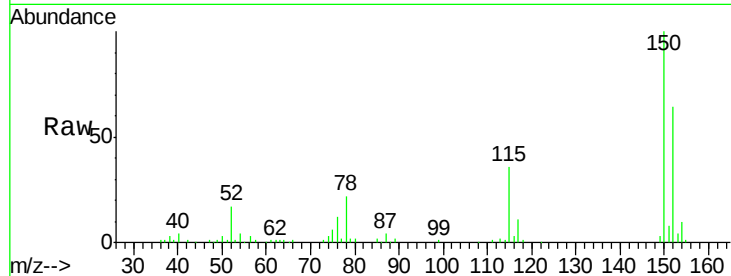
ClientSampleId :

COMP2DL

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	66968		
150	157.1	123.1	184.7	
115	56.0	46.2	69.4	

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#5

2-Fluorophenol

Concen: 1.91 ng

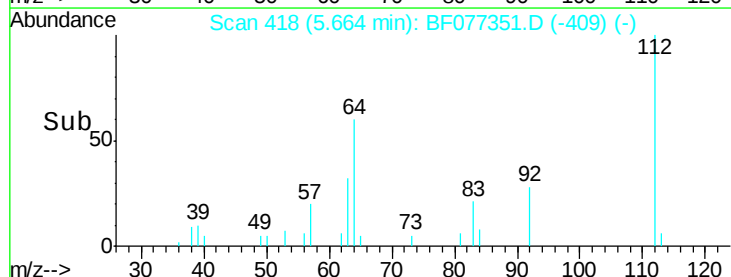
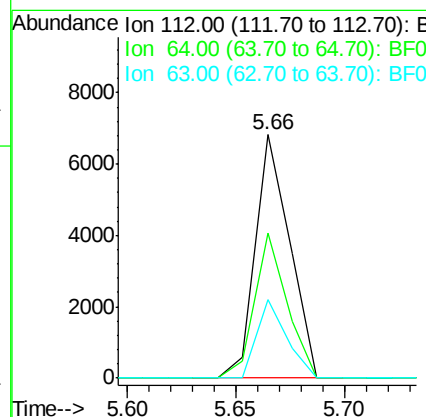
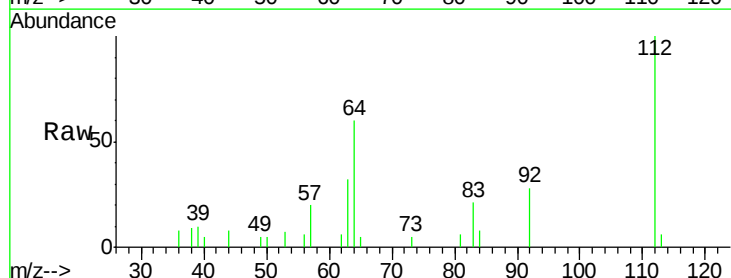
RT: 5.66 min Scan# 418

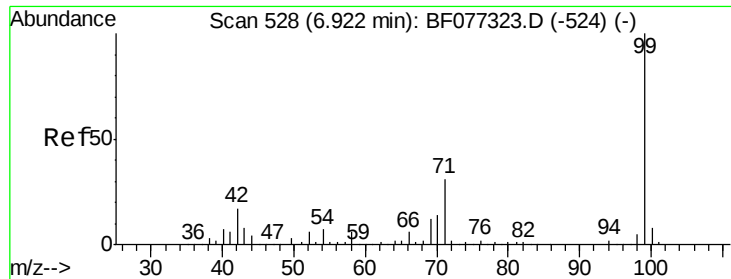
Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	7480		
64	59.8	44.7	67.1	
63	32.1	23.3	34.9	





#7

Phenol-d6

Concen: 1.93 ng

RT: 6.92 min Scan# 528

Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Instrument :

BNA_F

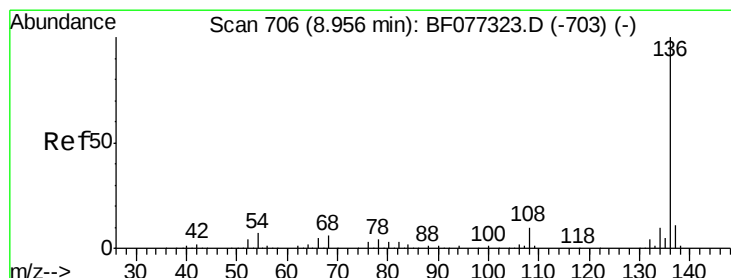
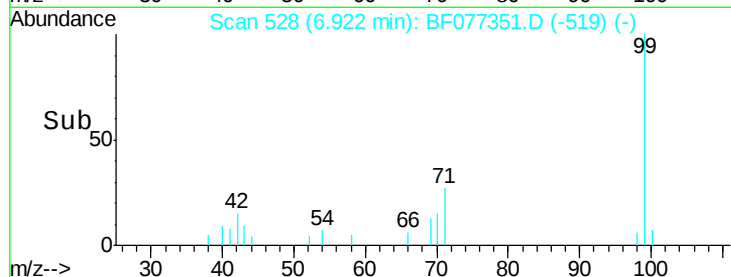
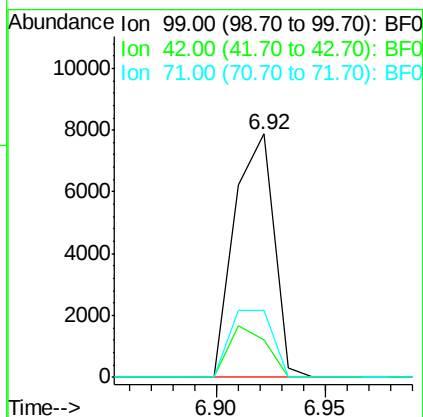
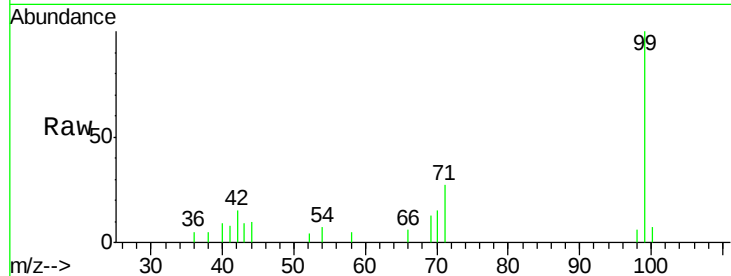
ClientSampled :

COMP2DL

Tgt Ion:	99	Resp:	9896
Ion Ratio	Lower	Upper	
99	100		
42	15.3	13.8	20.6
71	27.5	24.6	37.0

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#21

Naphthalene-d8

Concen: 20.00 ng

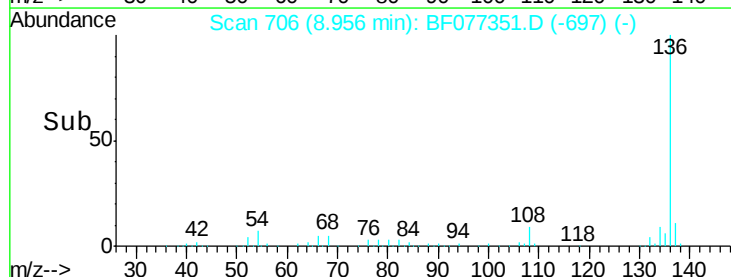
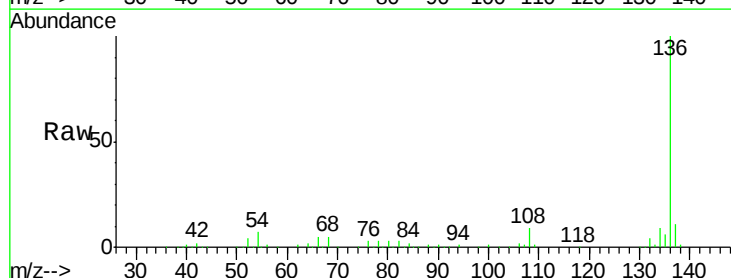
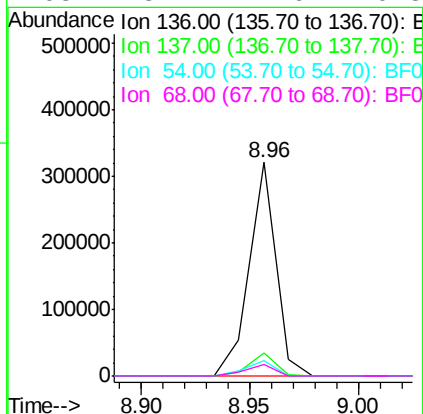
RT: 8.96 min Scan# 706

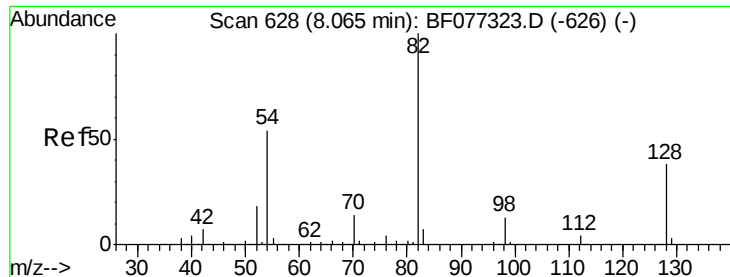
Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Tgt Ion:	136	Resp:	273631
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.7	13.1
54	7.0	5.8	8.6
68	5.4	4.6	6.8





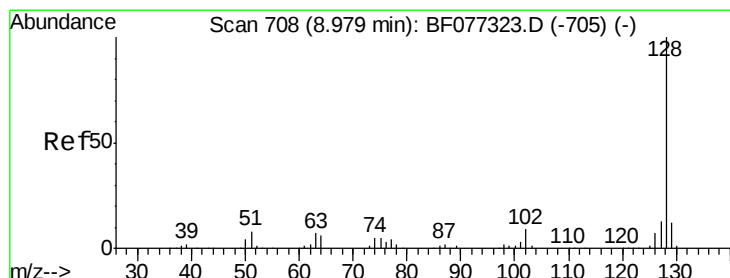
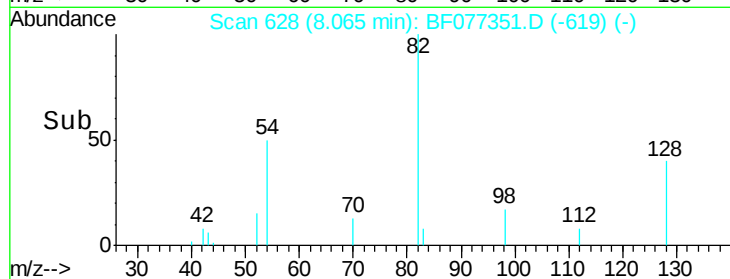
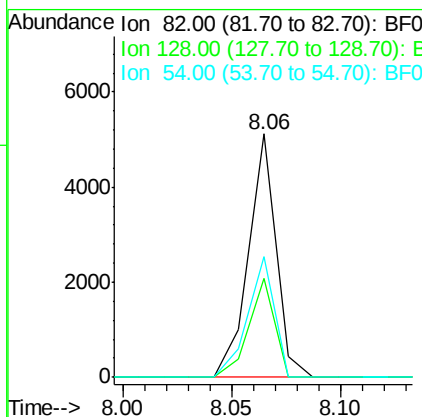
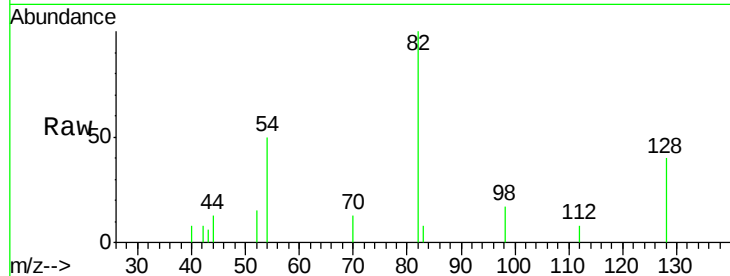
#23
 Nitrobenzene-d5
 Concen: 1.14 ng
 RT: 8.06 min Scan# 628
 Delta R.T. 0.00 min
 Lab File: BF077351.D
 Acq: 18 Feb 2015 9:19

Instrument :
 BNA_F
 ClientSampleId :
 COMP2DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.4	30.7	46.1
54	49.7	43.1	64.7

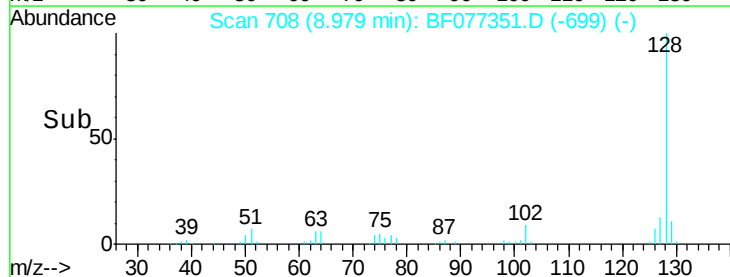
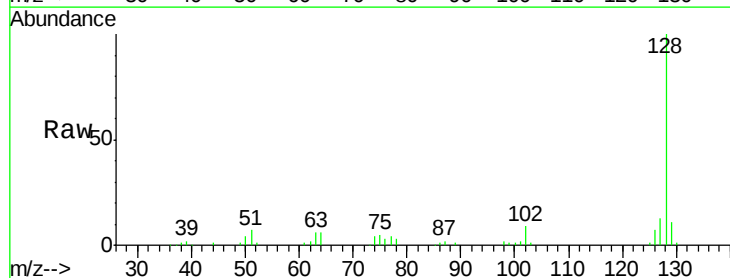
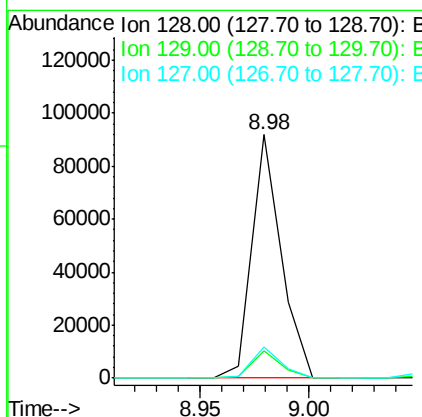
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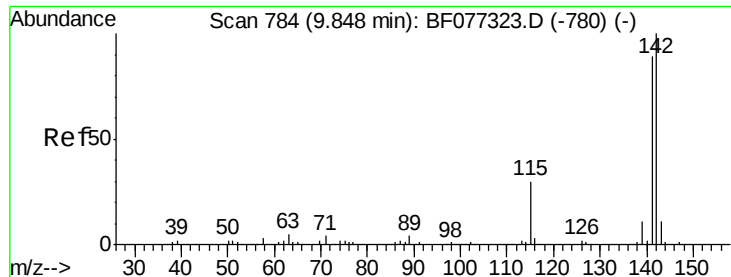
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#31
 Naphthalene
 Concen: 6.25 ng
 RT: 8.98 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: BF077351.D
 Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.5	14.3
127	12.8	10.5	15.7





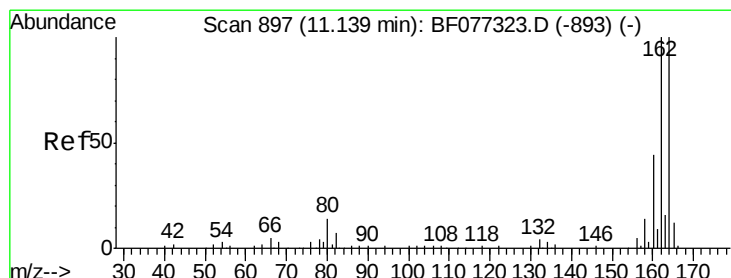
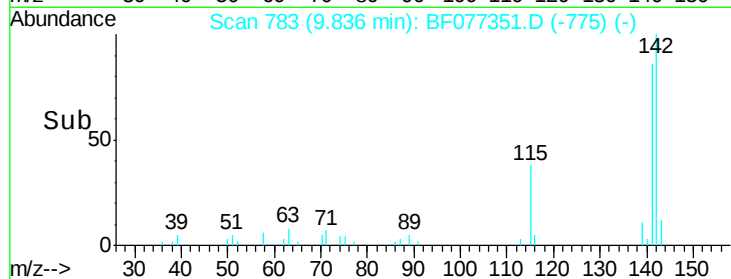
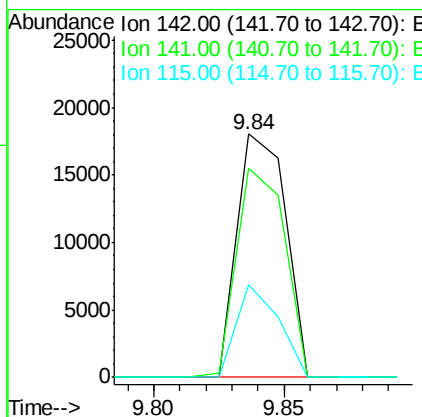
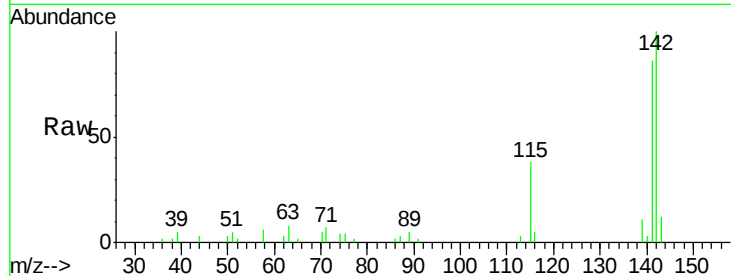
#37
2-Methylnaphthalene
Concen: 2.39 ng
RT: 9.84 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Instrument :
BNA_F
ClientSampleId :
COMP2DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.7	71.2	106.8
115	38.1	23.8	35.8

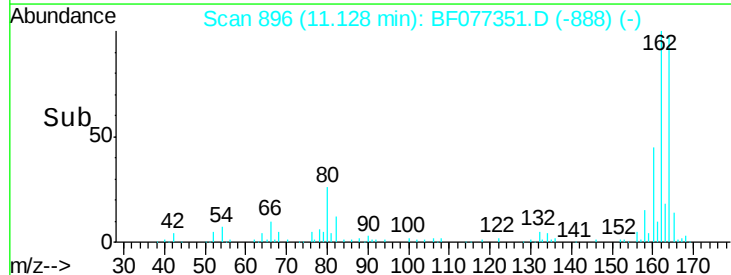
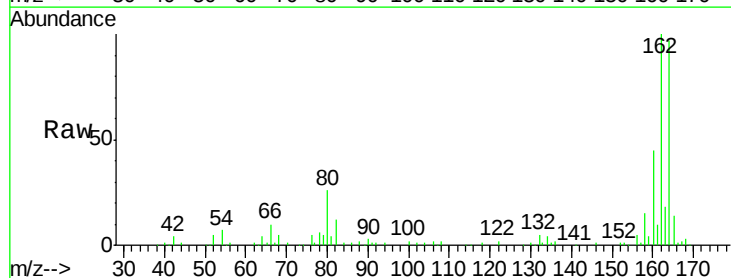
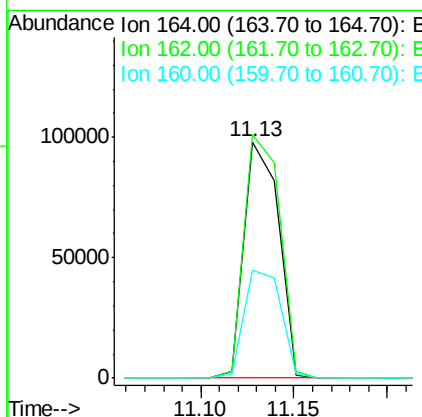
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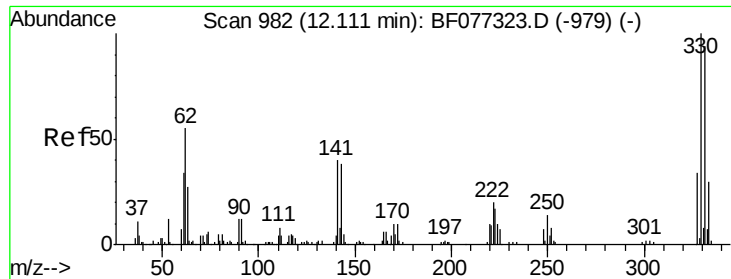
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	80.4	120.6
160	45.9	35.3	52.9





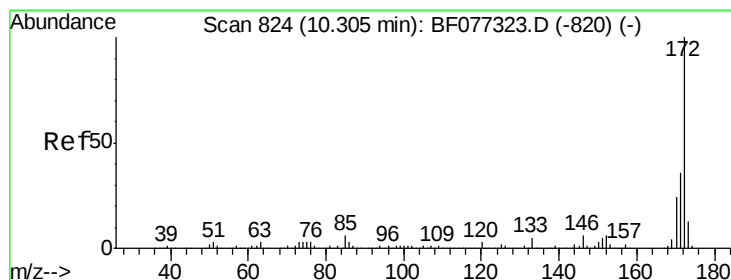
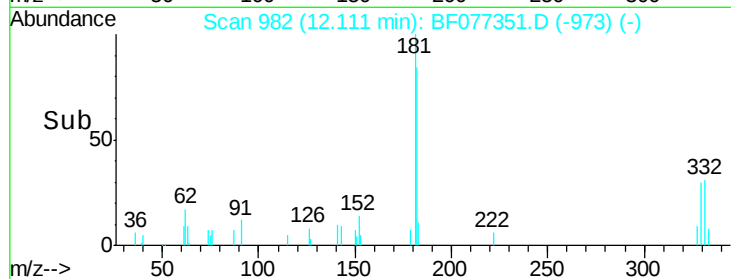
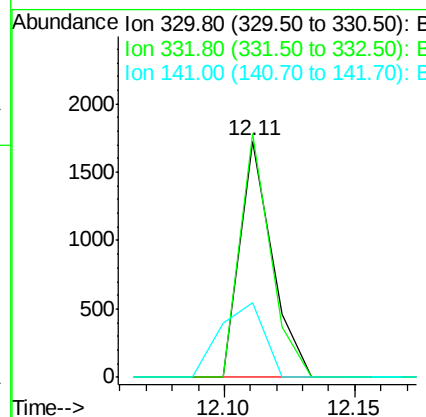
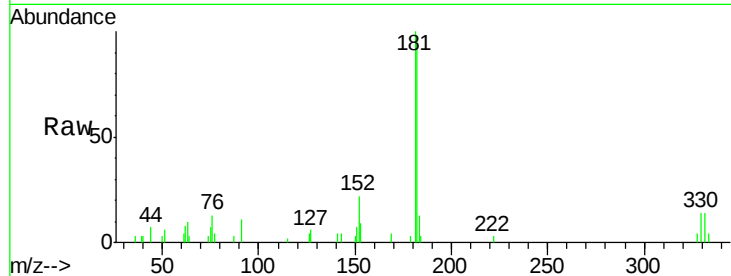
#41
 2,4,6-Tribromophenol
 Concen: 2.53 ng
 RT: 12.11 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: BF077351.D
 Acq: 18 Feb 2015 9:19

Instrument :
 BNA_F
 ClientSampleId :
 COMP2DL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.1	76.1	114.1
141	43.0	28.5	42.7

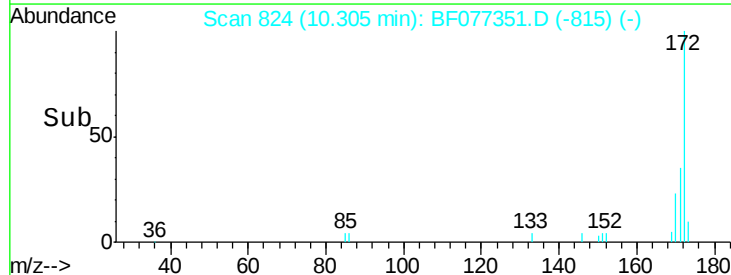
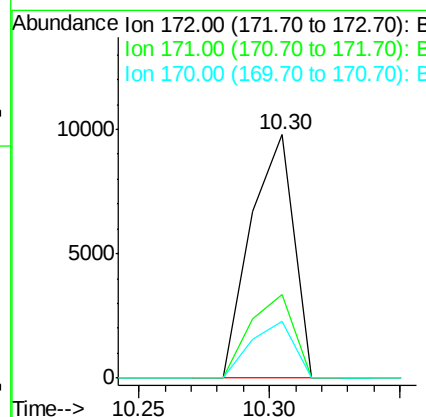
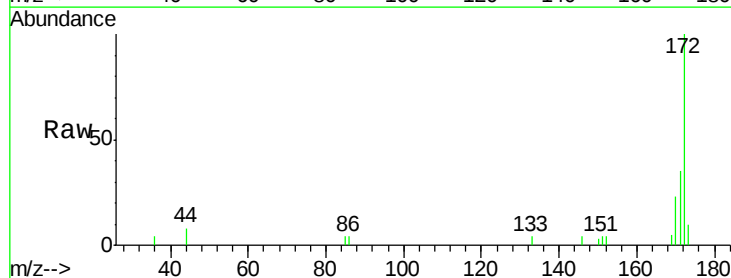
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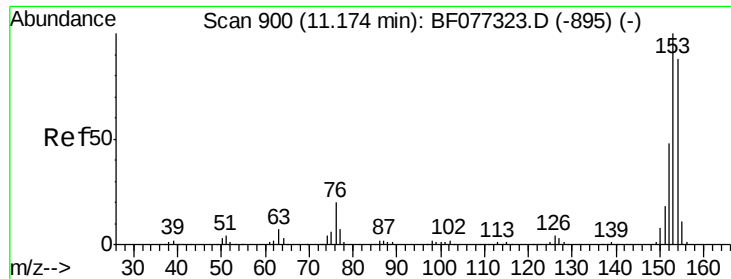
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#44
 2-Fluorobiphenyl
 Concen: 1.35 ng
 RT: 10.30 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BF077351.D
 Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.9	43.3
170	23.1	19.4	29.2





#51

Acenaphthene

Concen: 6.57 ng

RT: 11.17 min Scan# 900

Delta R.T. 0.00 min

Lab File: BF077351.D

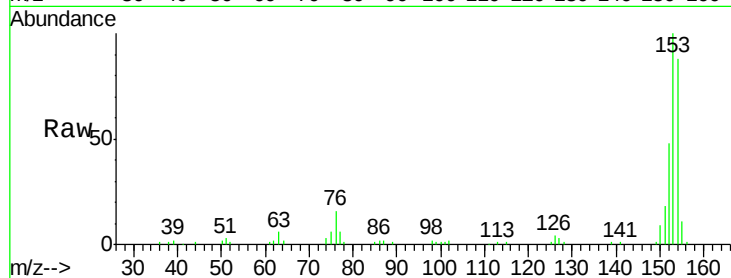
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Instrument :

BNA_F

ClientSampleId :

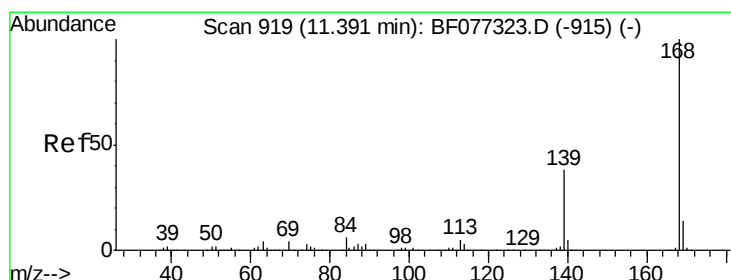
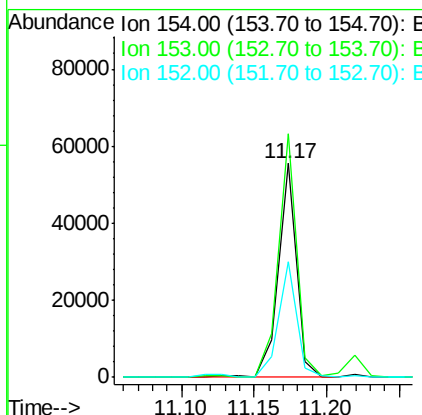
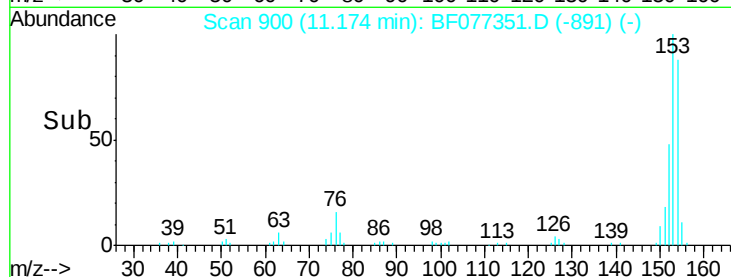
COMP2DL



Tgt Ion:	154	Resp:	48201
Ion Ratio	Lower	Upper	
154	100		
153	114.0	90.9	136.3
152	54.4	43.5	65.3

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#54

Dibenzofuran

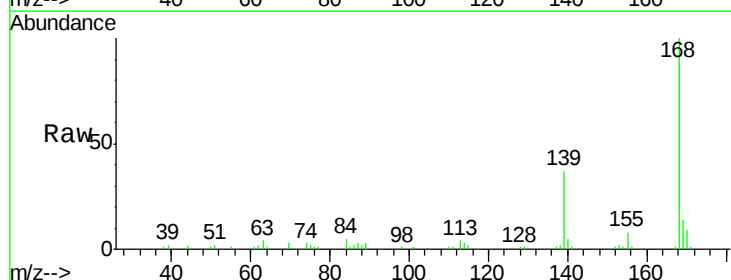
Concen: 4.57 ng

RT: 11.39 min Scan# 919

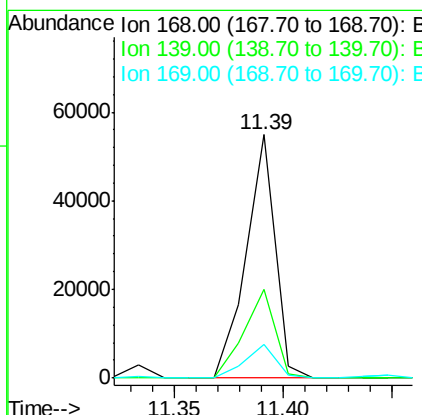
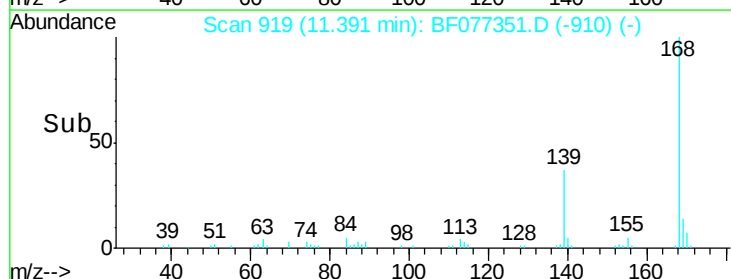
Delta R.T. 0.00 min

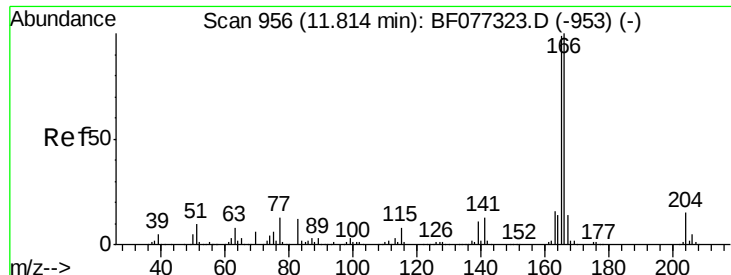
Lab File: BF077351.D

Acq: 18 Feb 2015 9:19



Tgt Ion:	168	Resp:	50809
Ion Ratio	Lower	Upper	
168	100		
139	36.6	30.6	45.8
169	14.0	11.0	16.4





#57

Fluorene

Concen: 6.58 ng

RT: 11.81 min Scan# 956

Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Instrument :

BNA_F

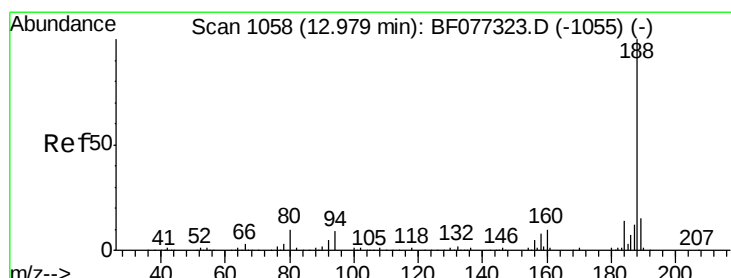
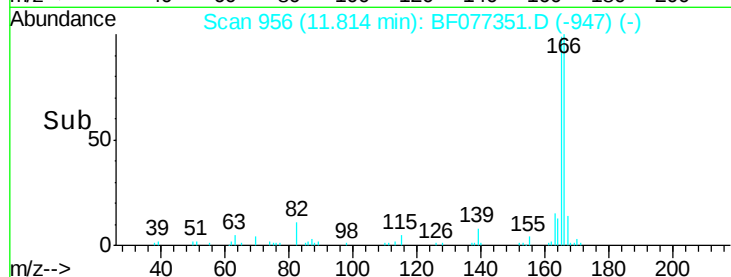
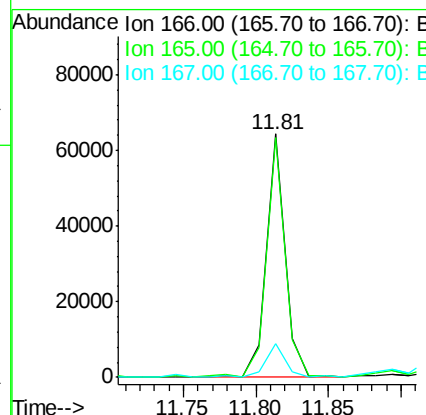
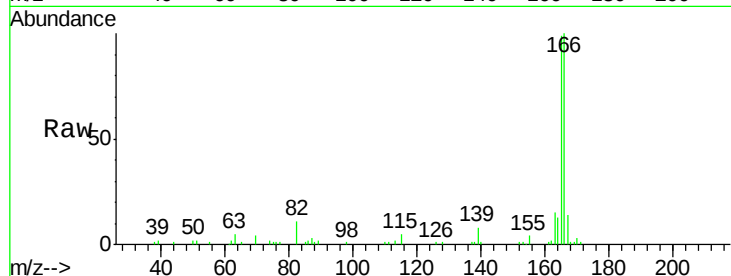
ClientSampleId :

COMP2DL

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.2	118.8
167	13.9	11.0	16.6

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#63

Phenanthrene-d10

Concen: 20.00 ng

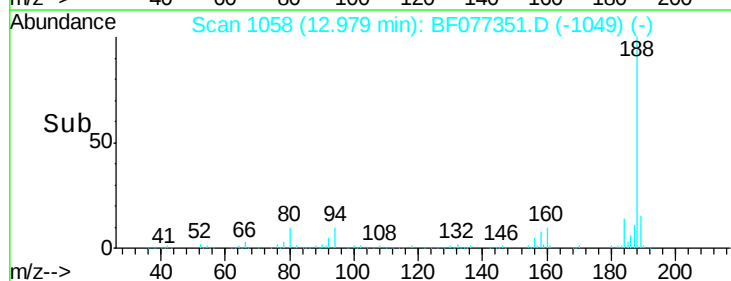
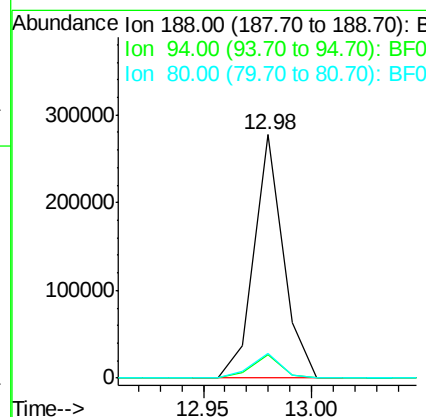
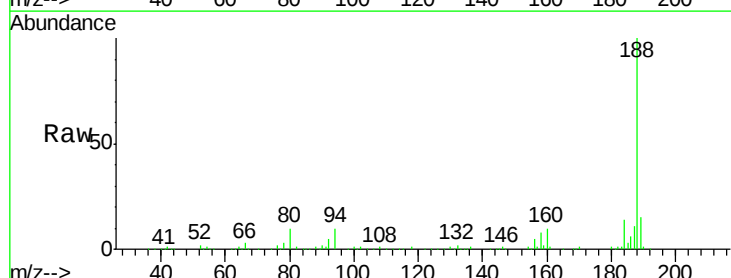
RT: 12.98 min Scan# 1058

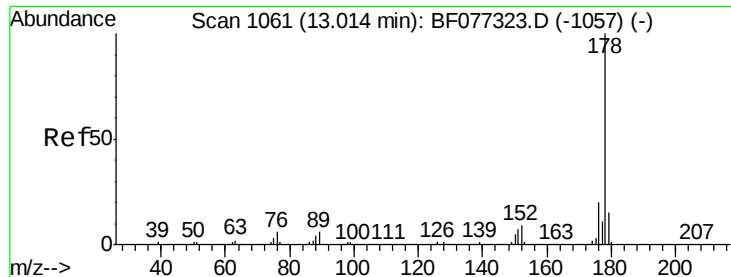
Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.2	10.8
80	10.3	7.8	11.8





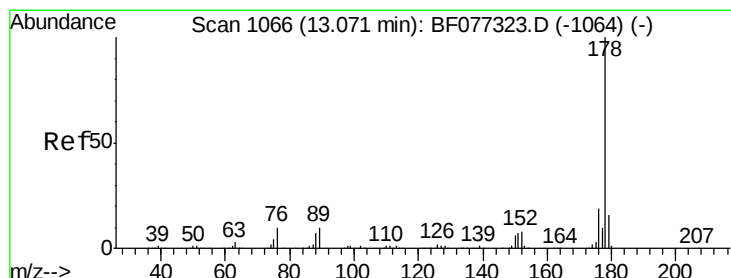
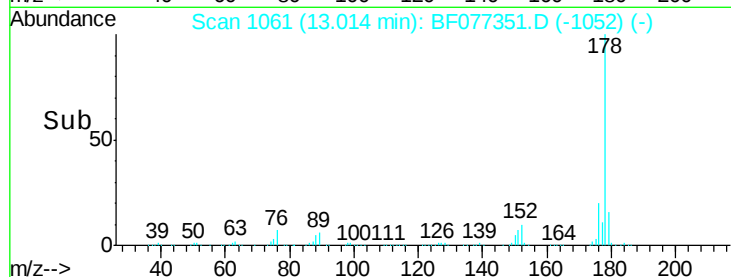
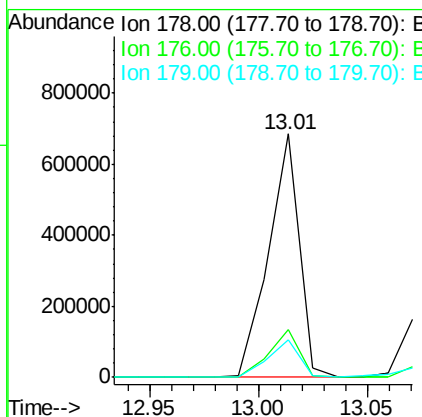
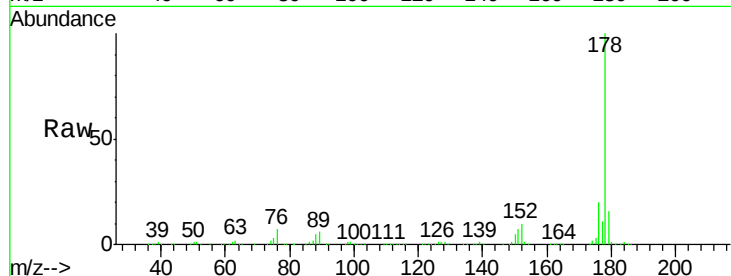
#70
Phenanthrene
Concen: 45.27 ng
RT: 13.01 min Scan# 1061
Delta R.T. 0.00 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Instrument :
BNA_F
ClientSampleId :
COMP2DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	15.6	12.3	18.5

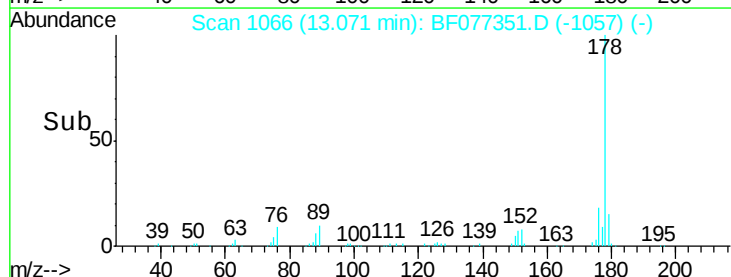
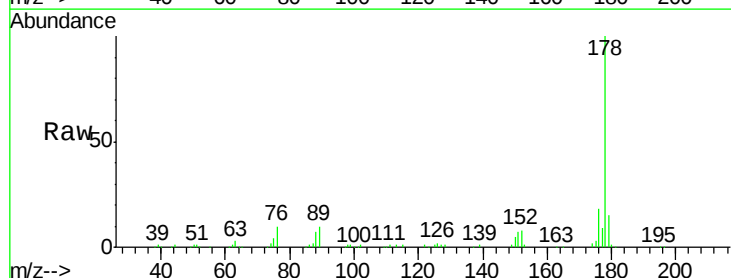
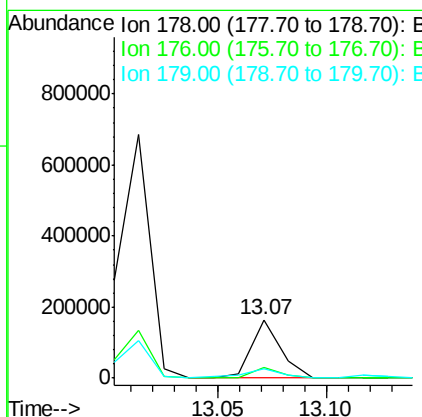
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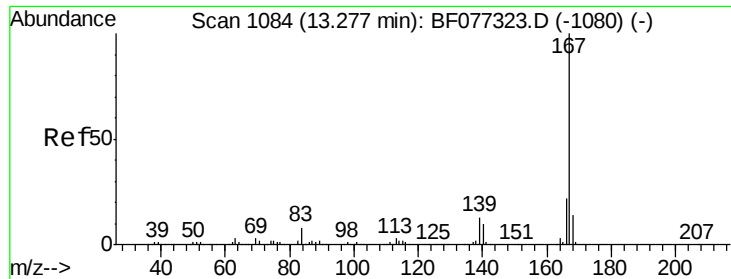
apatel
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#71
Anthracene
Concen: 10.39 ng
RT: 13.07 min Scan# 1066
Delta R.T. 0.00 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.3	22.9
179	15.3	12.8	19.2





#72

Carbazole

Concen: 3.64 ng

RT: 13.28 min Scan# 1084

Delta R.T. 0.00 min

Lab File: BF077351.D

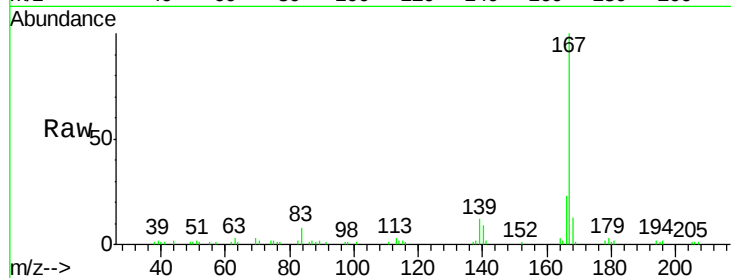
Acq: 18 Feb 2015 9:19

Instrument :

BNA_F

ClientSampleId :

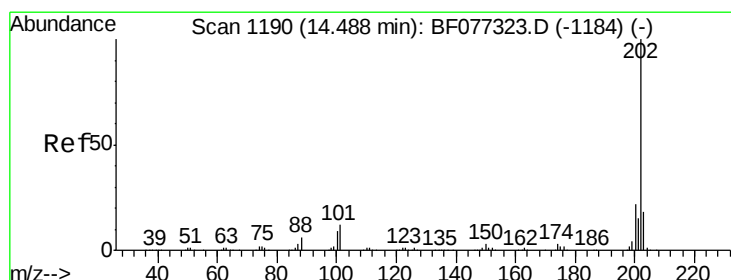
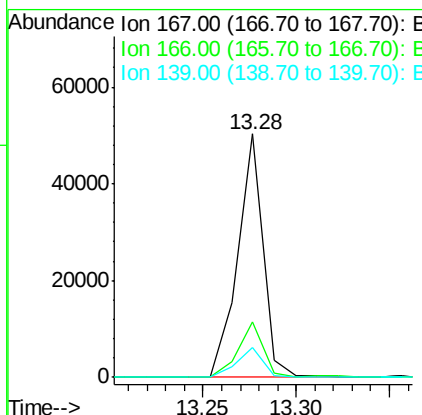
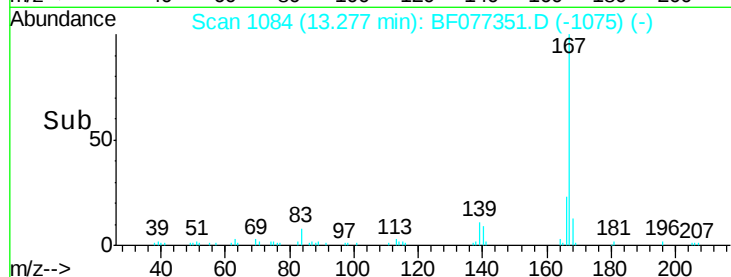
COMP2DL



Tgt Ion:	167	Resp:	47829
Ion Ratio	Lower	Upper	
167	100		
166	22.7	17.4	26.2
139	12.1	10.6	15.8

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#74

Fluoranthene

Concen: 35.28 ng

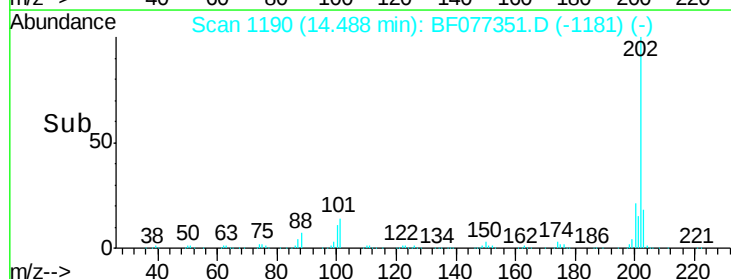
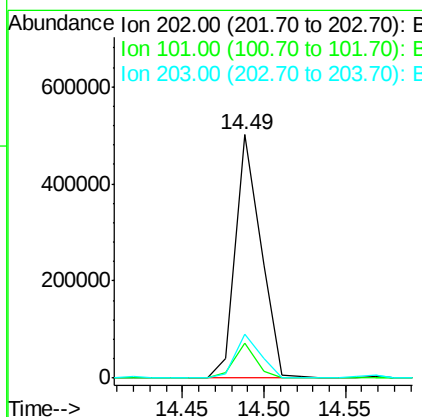
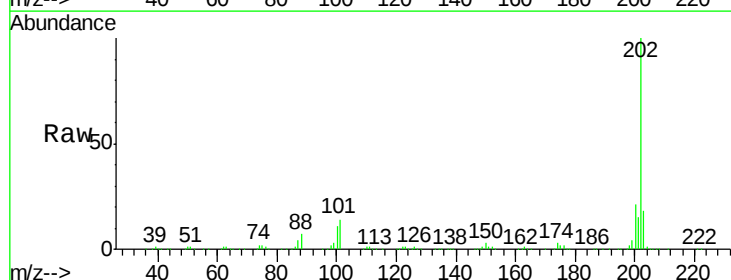
RT: 14.49 min Scan# 1190

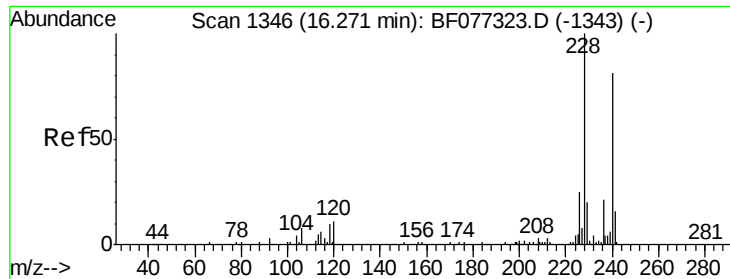
Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Tgt Ion:	202	Resp:	536108
Ion Ratio	Lower	Upper	
202	100		
101	14.4	0.0	32.4
203	18.0	0.0	37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.27 min Scan# 1346

Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Instrument :

BNA_F

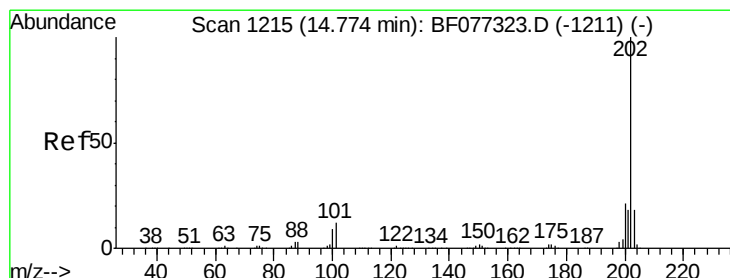
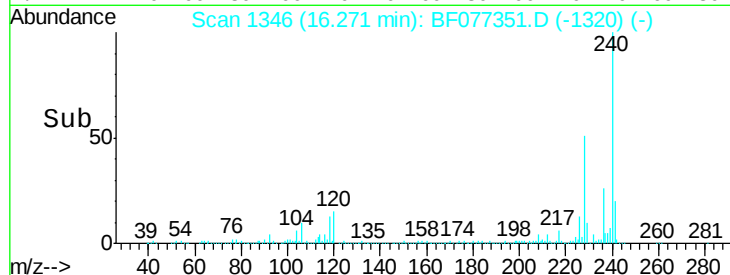
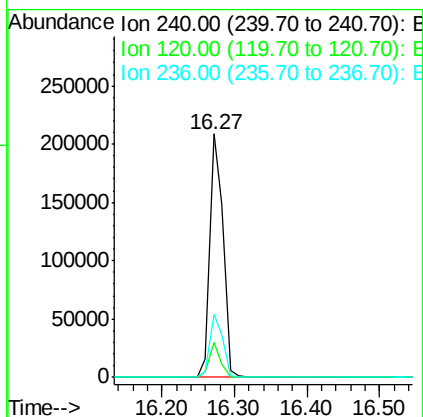
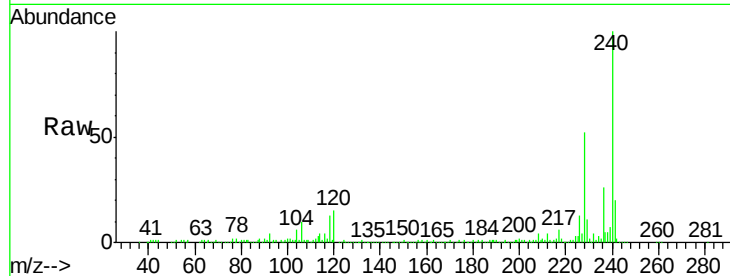
ClientSampleId :

COMP2DL

Tgt	Ion	240	Resp:	264522
Ion	Ratio	Lower	Upper	
240	100			
120	14.5	11.3	16.9	
236	25.9	20.3	30.5	

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#77

Pyrene

Concen: 31.48 ng

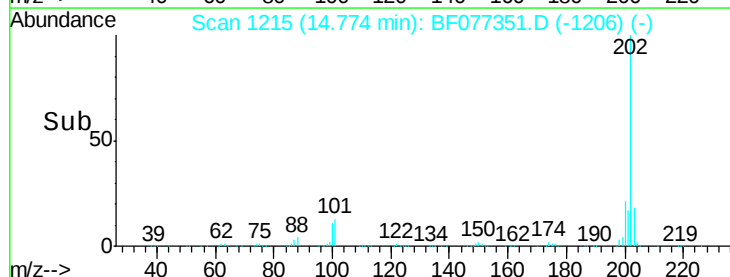
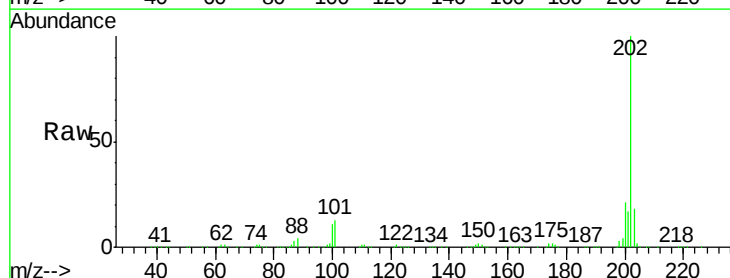
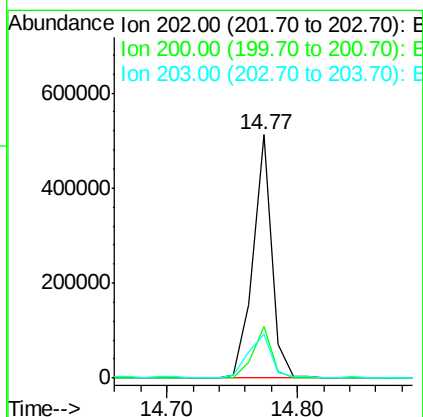
RT: 14.77 min Scan# 1215

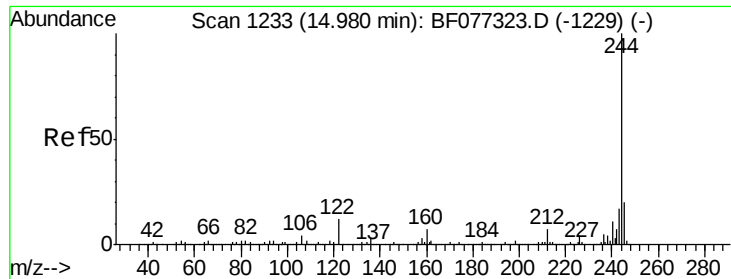
Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Tgt	Ion	202	Resp:	514721
Ion	Ratio	Lower	Upper	
202	100			
200	21.2	17.0	25.4	
203	18.1	14.2	21.4	





#78

Terphenyl-d14

Concen: 1.08 ng

RT: 14.98 min Scan# 1233

Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Instrument :

BNA_F

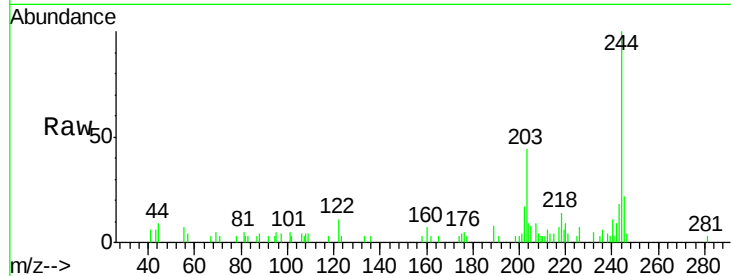
ClientSampleId :

COMP2DL

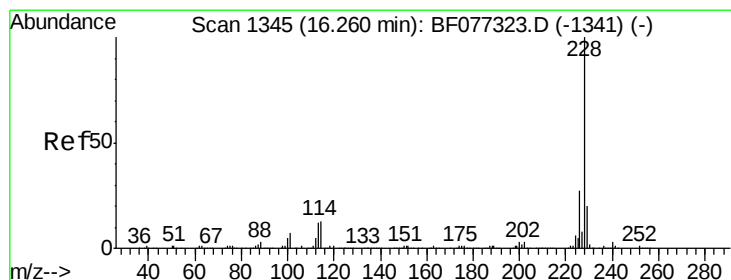
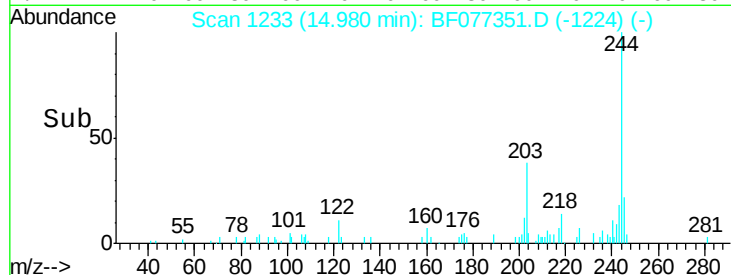
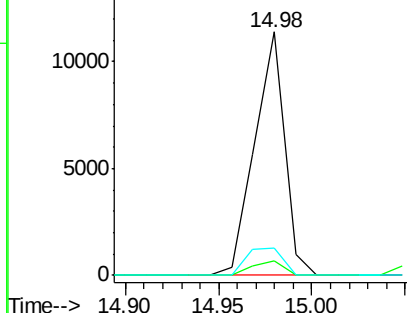
Tgt Ion:	244	Resp:	12581
Ion Ratio		Lower	Upper
244	100		
212	5.9	5.4	8.0
122	11.4	9.3	13.9

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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: 15.31 ng

RT: 16.26 min Scan# 1345

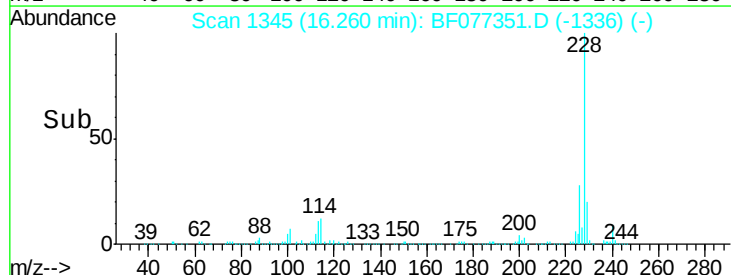
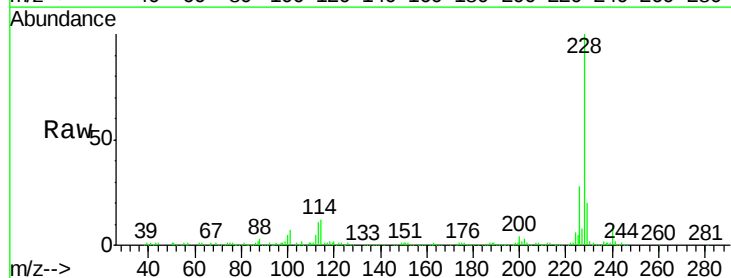
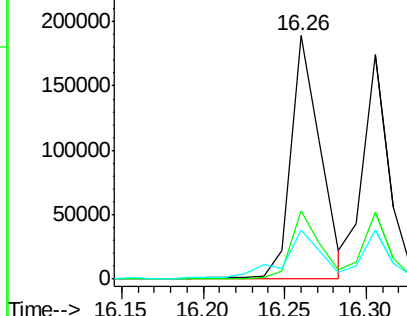
Delta R.T. 0.00 min

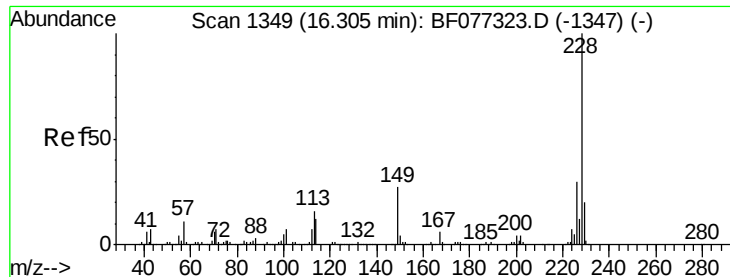
Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Tgt Ion:	228	Resp:	235926
Ion Ratio		Lower	Upper
228	100		
226	27.9	21.9	32.9
229	19.9	16.1	24.1

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





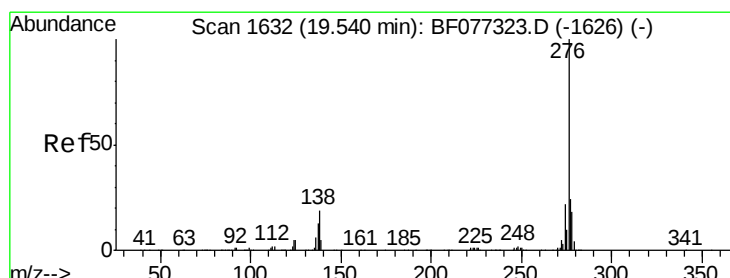
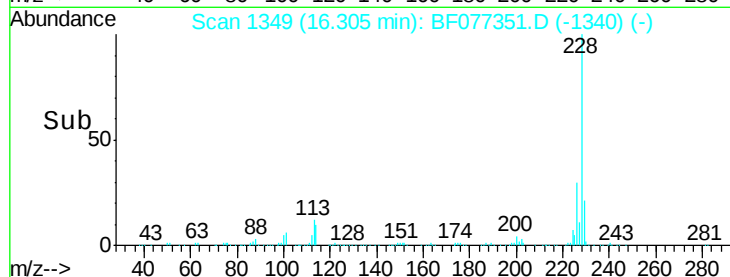
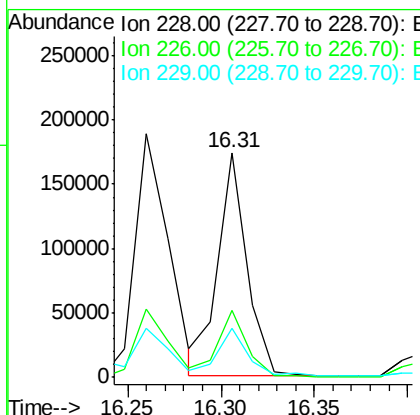
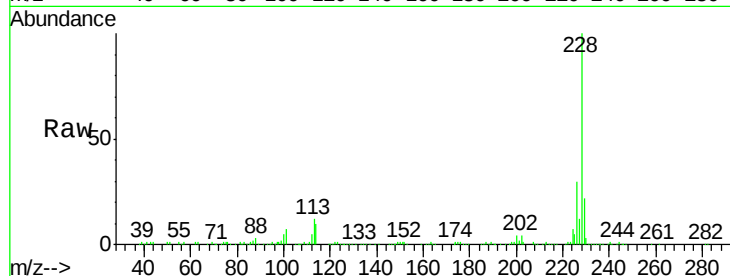
#82
Chrysene
Concen: 12.96 ng
RT: 16.31 min Scan# 1349
Delta R.T. 0.00 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Instrument :
BNA_F
ClientSampleId :
COMP2DL

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	188745		
226	30.0		24.2	36.2
229	22.1		16.2	24.2

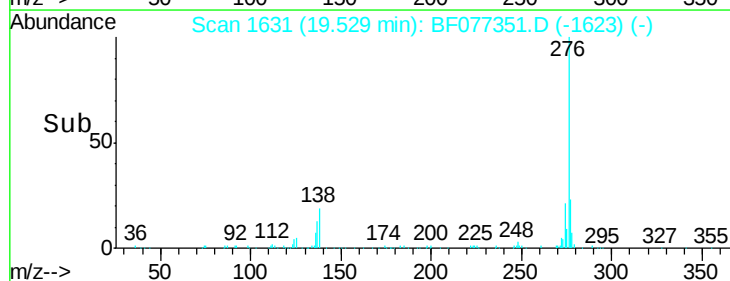
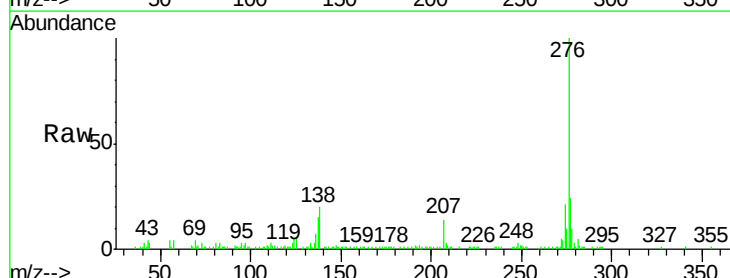
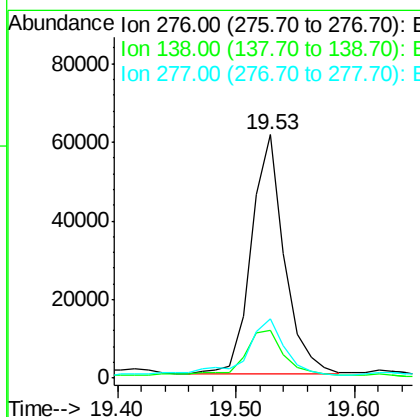
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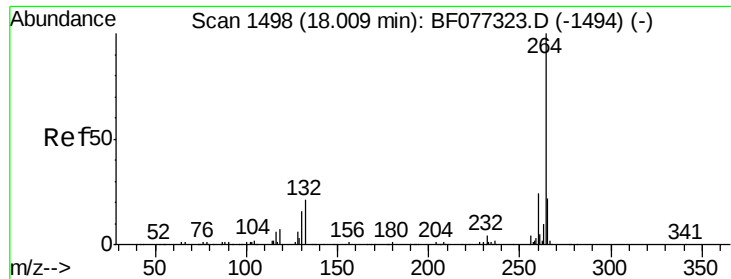
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#85
Indeno(1,2,3-cd)pyrene
Concen: 7.07 ng
RT: 19.53 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	117646		
138	22.1		20.2	30.2
277	27.0		20.2	30.2





#86

Perylene-d12

Concen: 20.00 ng

RT: 18.01 min Scan# 1498

Delta R.T. 0.00 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

Instrument :

BNA_F

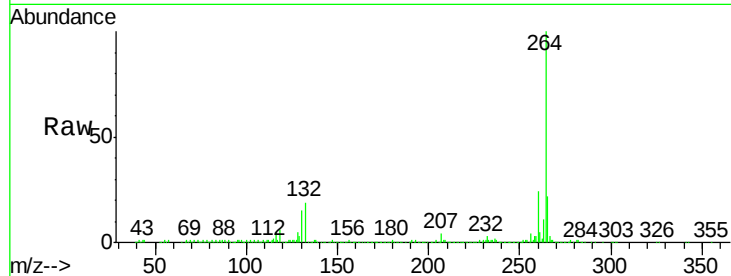
ClientSampleId :

COMP2DL

Tgt	Ion	Ratio	Resp	Lower	Upper
264	100		279659		
260	23.5	18.9	28.3		
265	21.8	17.7	26.5		

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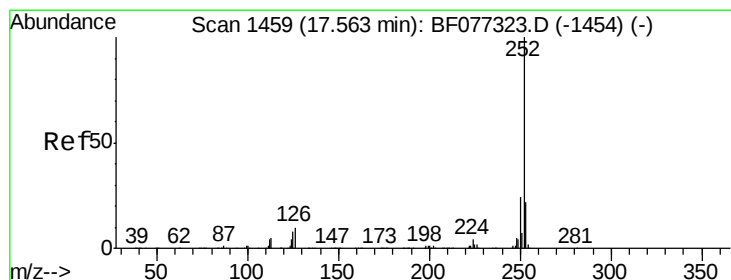
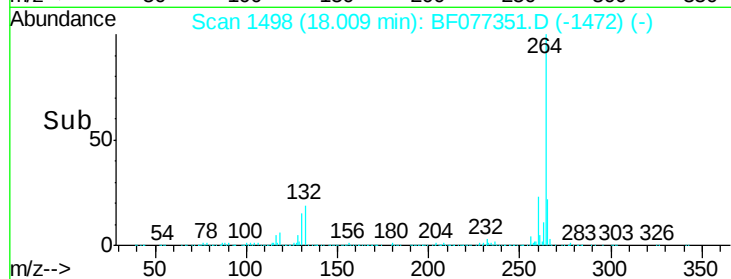
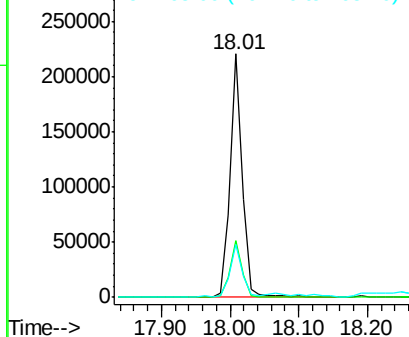


Abundance

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: 13.06 ng m

RT: 17.55 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF077351.D

Acq: 18 Feb 2015 9:19

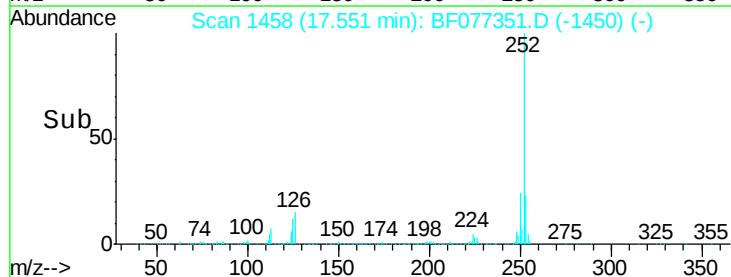
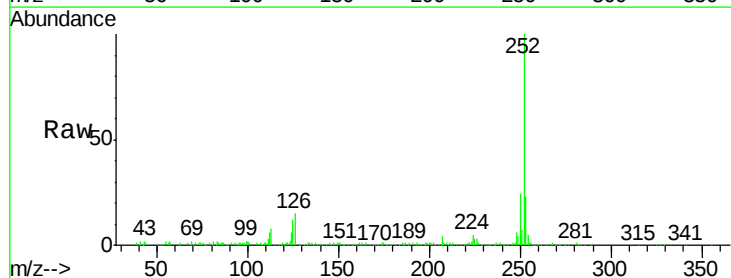
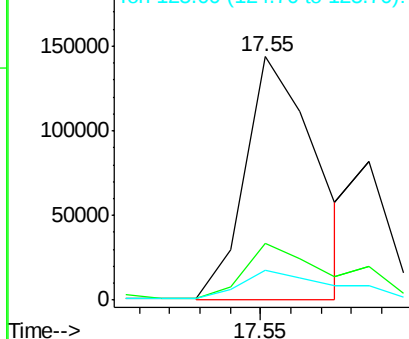
Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		234777		
253	23.1	17.3	25.9		
125	12.4	6.1	9.1#		

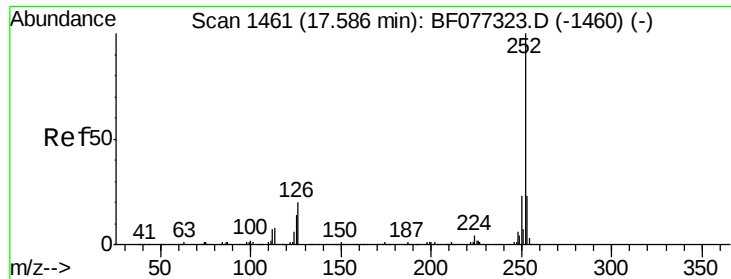
Abundance

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





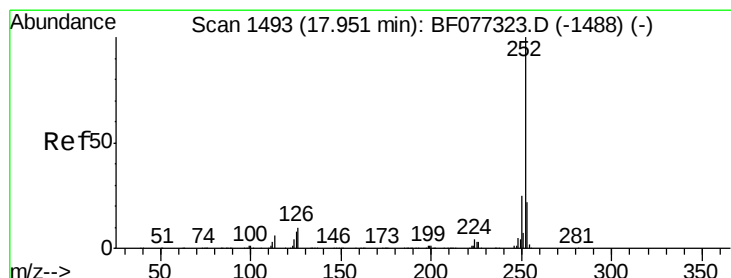
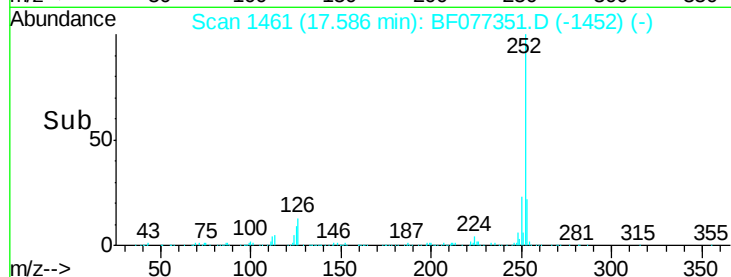
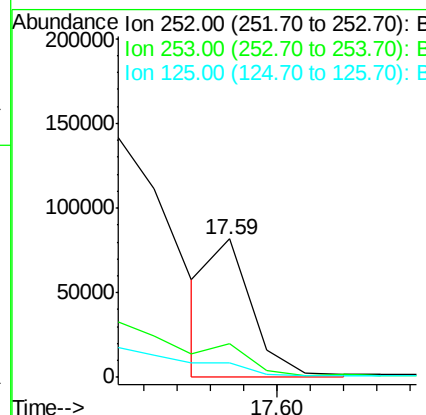
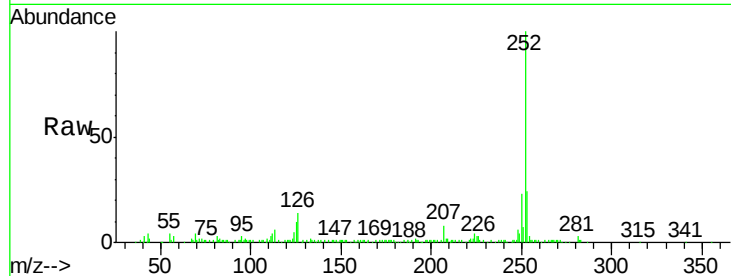
#88
Benzo(k)fluoranthene
Concen: 4.73 ng m
RT: 17.59 min Scan# 1461
Delta R.T. 0.00 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Instrument :
BNA_F
ClientSampleId :
COMP2DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.0	27.0
125	10.3	11.0	16.4#

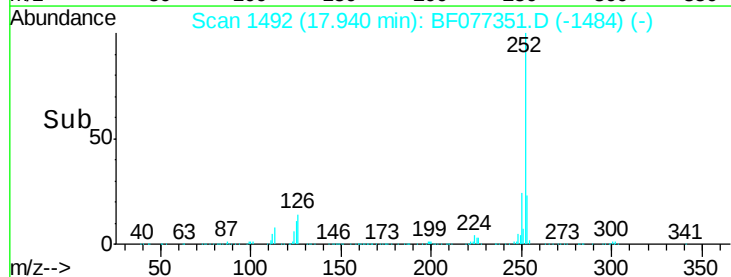
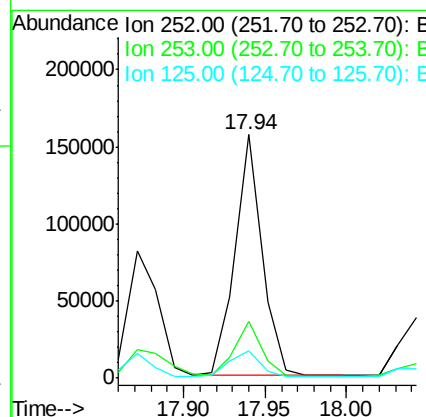
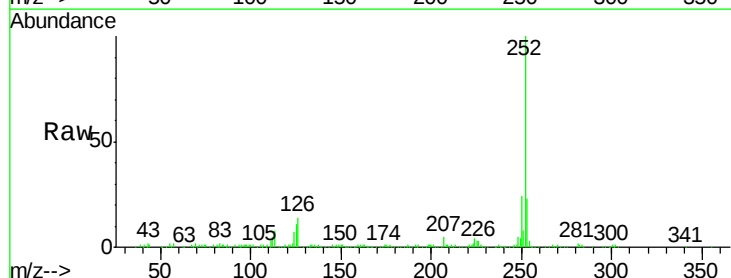
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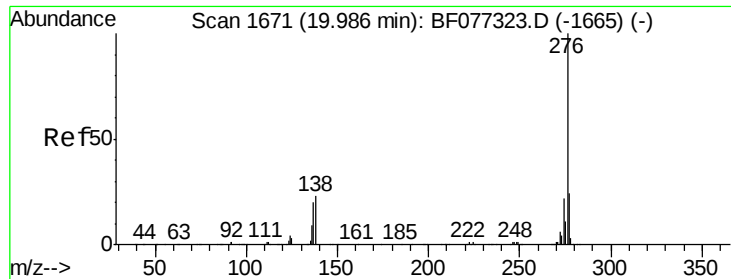
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#89
Benzo(a)pyrene
Concen: 11.35 ng
RT: 17.94 min Scan# 1492
Delta R.T. -0.01 min
Lab File: BF077351.D
Acq: 18 Feb 2015 9:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.4	26.0
125	11.4	6.2	9.2#





#91
 Benzo(g,h,i)perylene
 Concen: 7.28 ng
 RT: 19.97 min Scan# 1670
 Delta R.T. -0.01 min
 Lab File: BF077351.D
 Acq: 18 Feb 2015 9:19

Instrument :
 BNA_F
 ClientSampleId :
 COMP2DL

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100				
277	24.4	19.0	28.6		
138	22.5	18.7	28.1		

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