

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
 Data File : BF079556.D
 Acq On : 28 May 2015 20:58
 Operator : TP/IZ
 Sample : G2408-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-24S

Manual Integrations
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Quant Time: May 29 11:44:20 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 18:41:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	75813	20.00	ng	0.00
21) Naphthalene-d8	8.54	136	307627	20.00	ng	0.00
38) Acenaphthene-d10	10.71	164	145998	20.00	ng	0.00
63) Phenanthrene-d10	12.54	188	279856	20.00	ng	0.00
75) Chrysene-d12	15.83	240	303817	20.00	ng	-0.01
86) Perylene-d12	17.59	264	311594	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	319206	73.03	ng	0.01
7) Phenol-d6	6.57	99	422750	75.88	ng	0.01
23) Nitrobenzene-d5	7.66	82	239353	44.98	ng	-0.01
41) 2,4,6-Tribromophenol	11.69	330	122077	76.13	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	483395	47.24	ng	0.00
78) Terphenyl-d14	14.54	244	567506	43.84	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.57	128	50269	3.41	ng	98
48) Acenaphthylene	10.54	152	38662	2.59	ng	97
49) Dimethylphthalate	10.40	163	118678	11.03	ng	100
51) Acenaphthene	10.74	154	42814	5.01	ng	99
54) Dibenzofuran	10.96	168	30380	2.41	ng	99
57) Fluorene	11.38	166	48334m	4.65	ng	
70) Phenanthrene	12.57	178	545573	35.54	ng	99
71) Anthracene	12.63	178	150174	9.63	ng	97
72) Carbazole	12.85	167	42553	2.84	ng	95
74) Fluoranthene	14.05	202	805294	48.91	ng	98
77) Pyrene	14.32	202	813828	43.24	ng	98
80) Benzo(a)anthracene	15.82	228	419381	24.00	ng	99
82) Chrysene	15.85	228	383267m	23.07	ng	
85) Indeno(1,2,3-cd)pyrene	18.90	276	263530	12.33	ng	97
87) Benzo(b)fluoranthene	17.13	252	586442m	33.00	ng	
88) Benzo(k)fluoranthene	17.15	252	118369m	7.45	ng	
89) Benzo(a)pyrene	17.52	252	418373	26.04	ng	# 96
90) Dibenzo(a,h)anthracene	18.91	278	65534m	2.59	ng	
91) Benzo(a,h,i)perylene	19.28	276	268202	15.35	ng	97

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

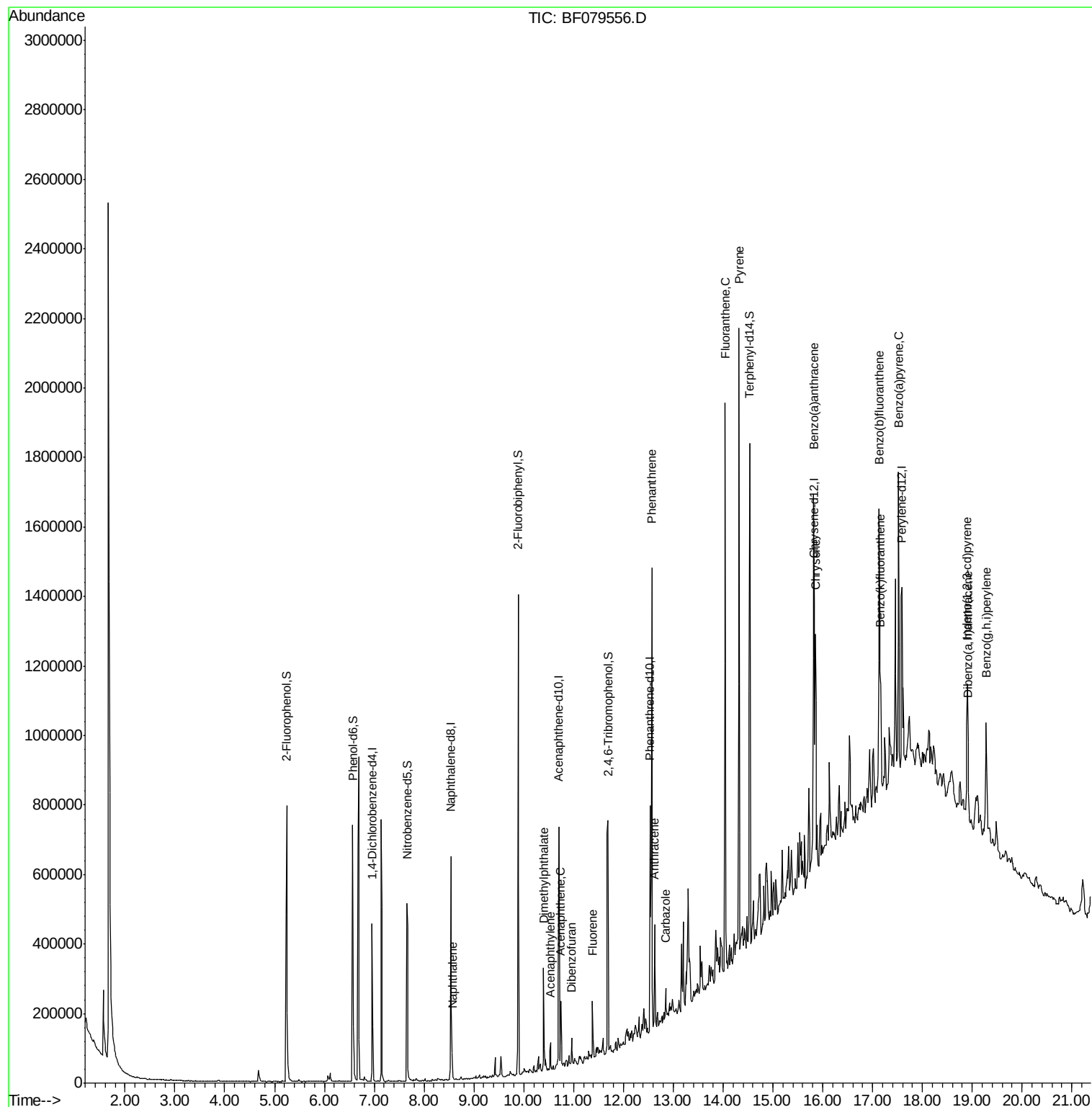
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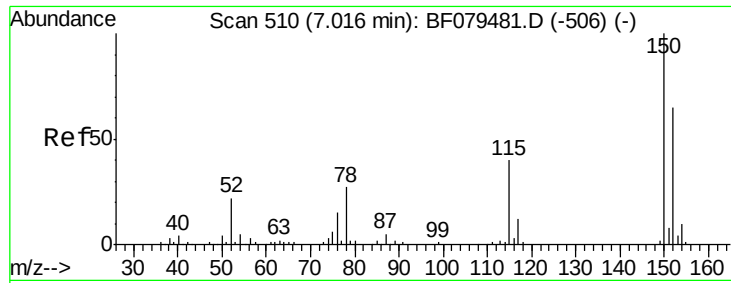
Instrument :
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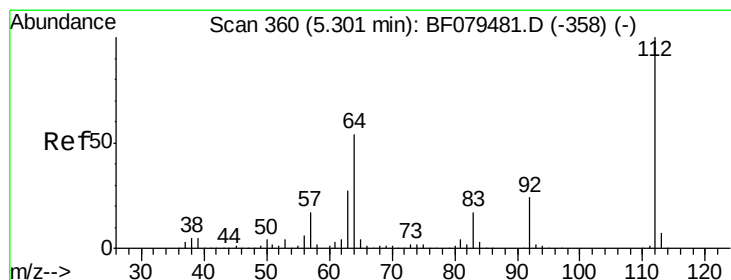
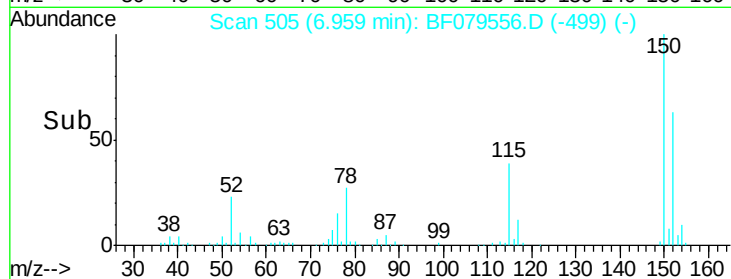
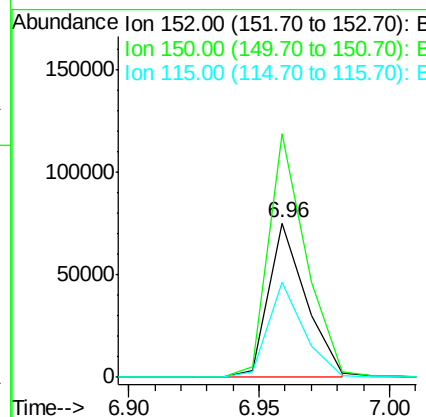
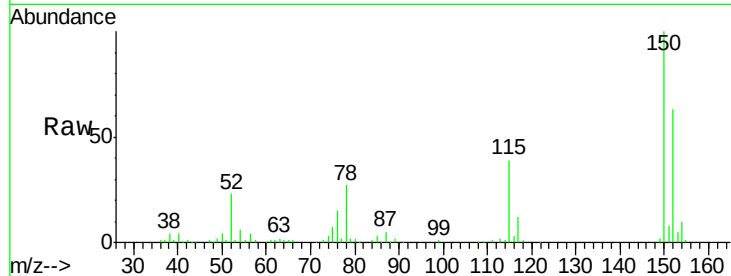
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.96 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: BF079556.D
 Acq: 28 May 2015 20:58

Instrument :
 BNA_F
 ClientSampleId :
 SB-24S

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	124.0	186.0
115	61.6	49.6	74.4

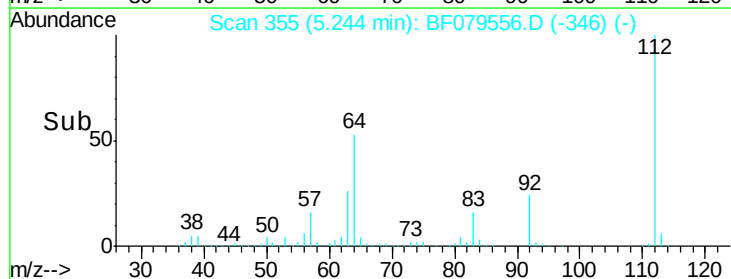
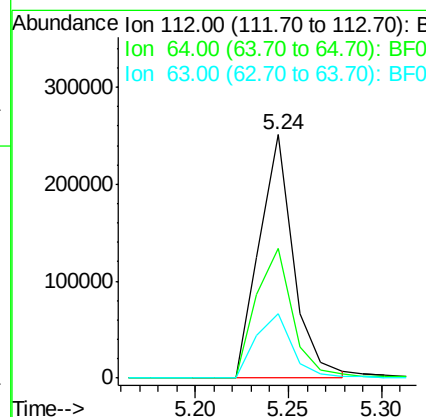
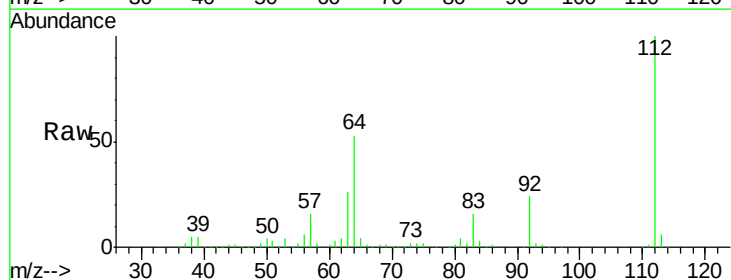
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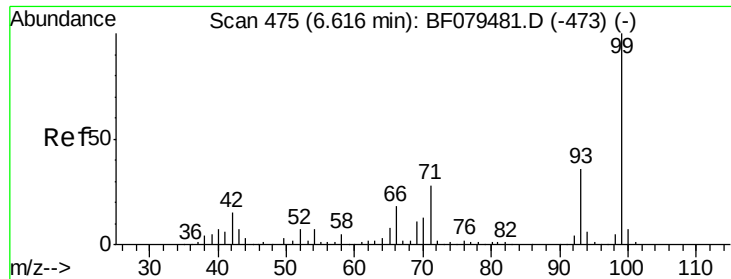
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#5
 2-Fluorophenol
 Concen: 73.03 ng
 RT: 5.24 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: BF079556.D
 Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.1	43.5	65.3
63	26.4	21.8	32.8





#7

Phenol-d6

Concen: 75.88 ng

RT: 6.57 min Scan# 471

Delta R.T. 0.01 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

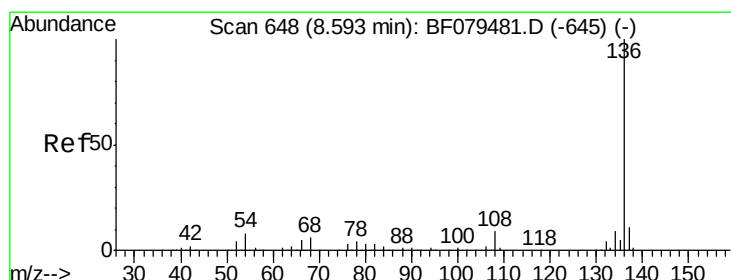
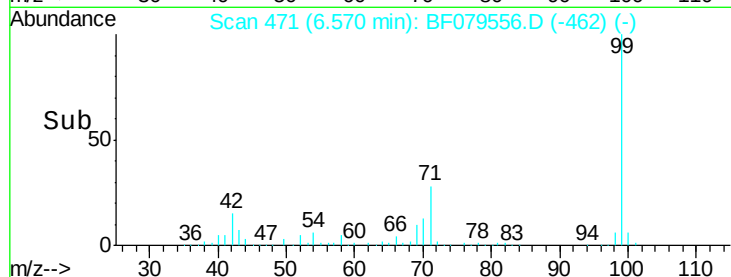
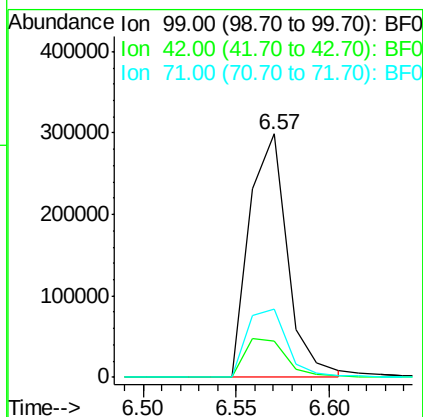
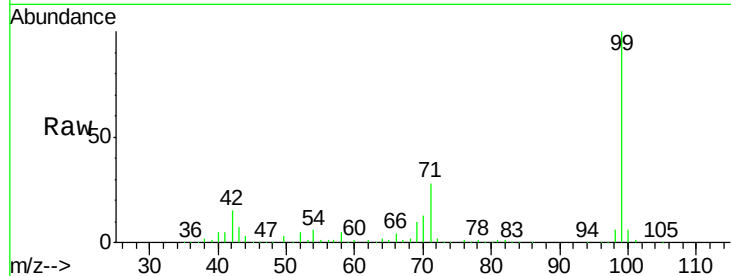
ClientSampleId :

SB-24S

Tot Ion:	99	Resp:	422750
Ion Ratio	Lower	Upper	
99	100		
42	14.8	11.9	17.9
71	28.0	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

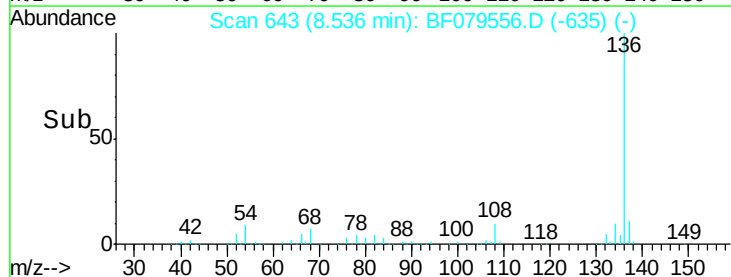
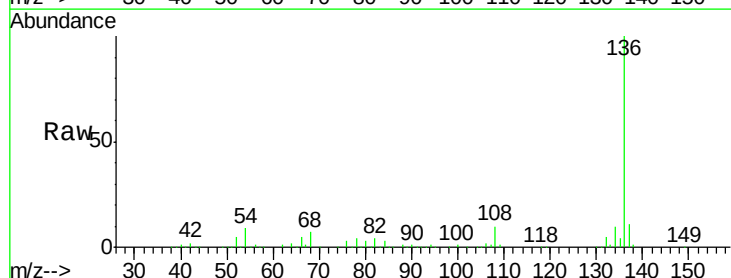
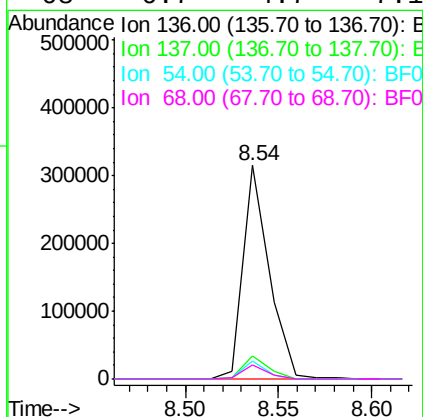
RT: 8.54 min Scan# 643

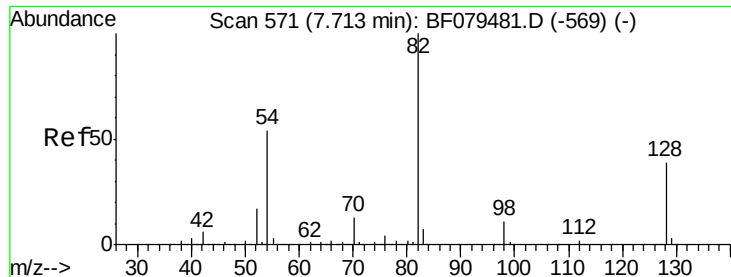
Delta R.T. 0.00 min

Lab File: BF079556.D

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Tgt Ion:	136	Resp:	307627
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	8.6	6.6	9.8
68	6.7	4.7	7.1





#23

Nitrobenzene-d5

Concen: 44.98 ng

RT: 7.66 min Scan# 566

Delta R.T. -0.01 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

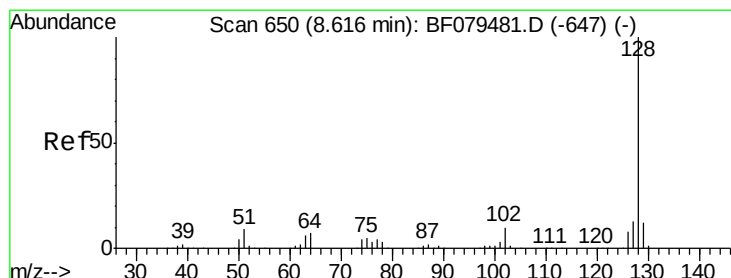
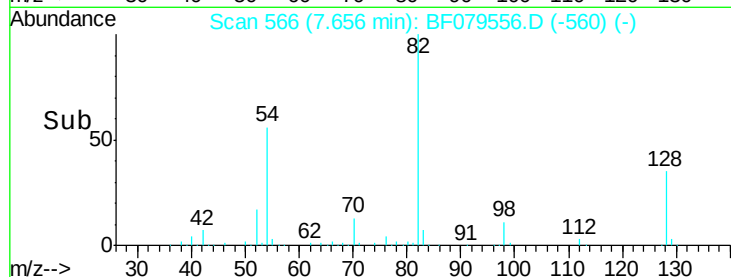
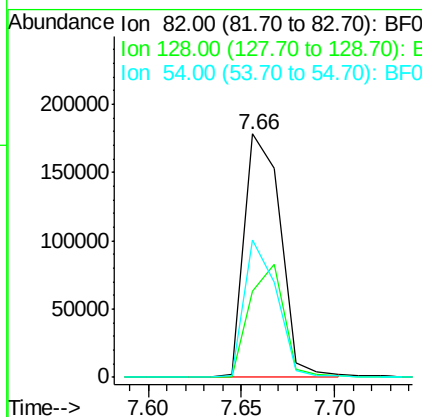
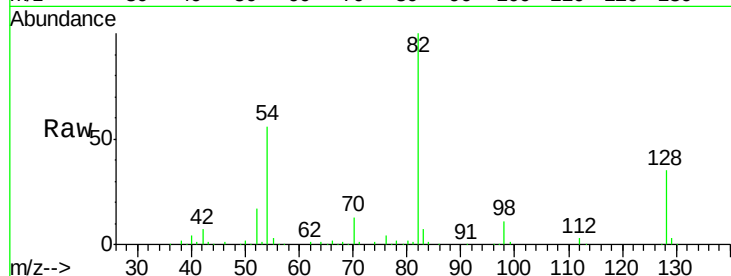
ClientSampled :

SB-24S

Tot Ion:	82	Resp:	239353
Ion Ratio	Lower	Upper	
82	100		
128	35.2	30.8	46.2
54	56.2	42.8	64.2

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#31

Naphthalene

Concen: 3.41 ng

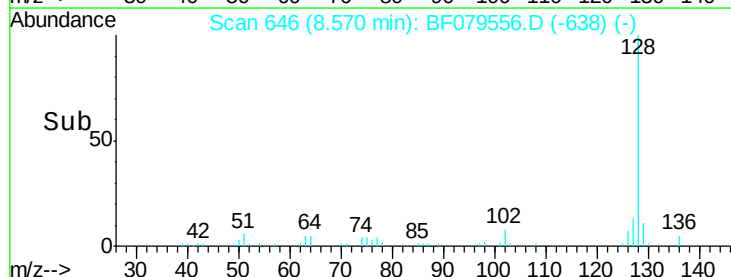
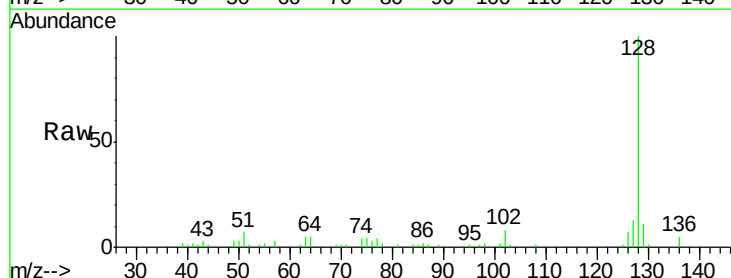
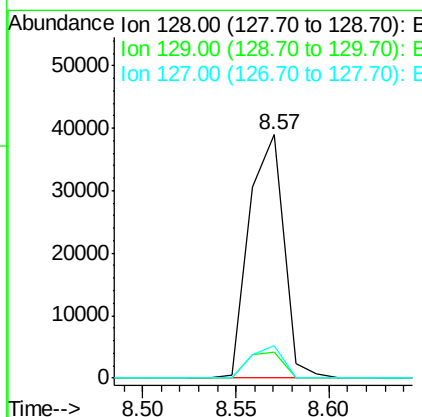
RT: 8.57 min Scan# 646

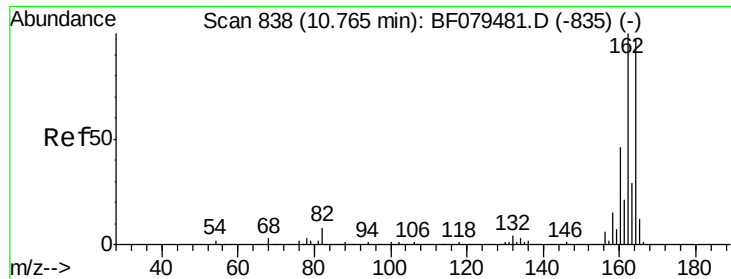
Delta R.T. 0.00 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Tgt Ion:	128	Resp:	50269
Ion Ratio	Lower	Upper	
128	100		
129	10.6	9.3	13.9
127	13.4	10.6	15.8





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.71 min Scan# 833

Delta R.T. 0.00 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

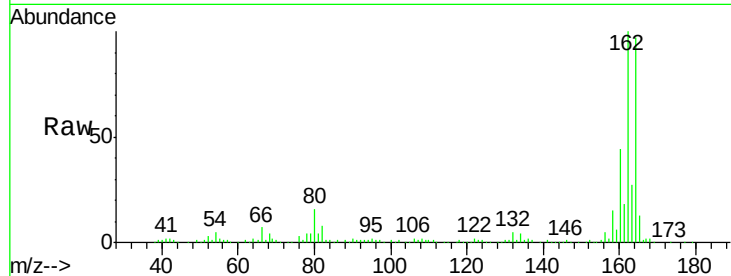
ClientSampleId :

SB-24S

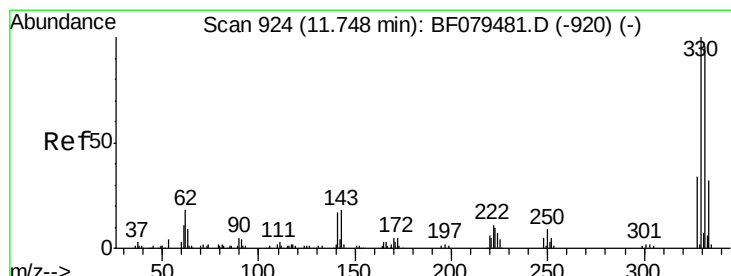
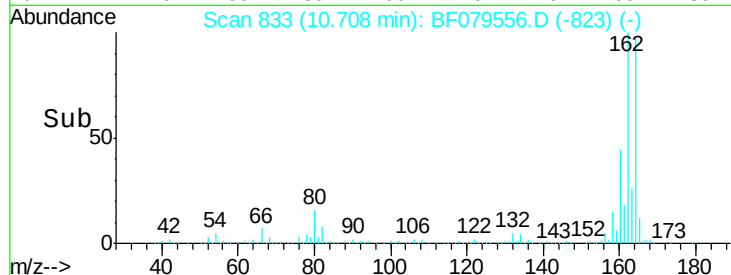
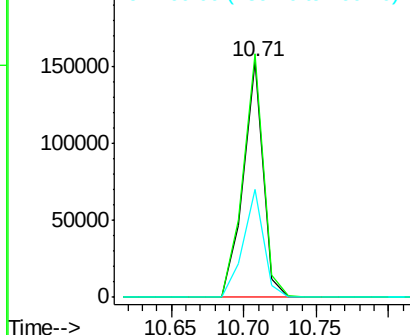
Tot Ion:	164	Resp:	145998
Ion Ratio	Lower	Upper	
164	100		
162	103.5	82.6	124.0
160	45.7	37.7	56.5

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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: 76.13 ng

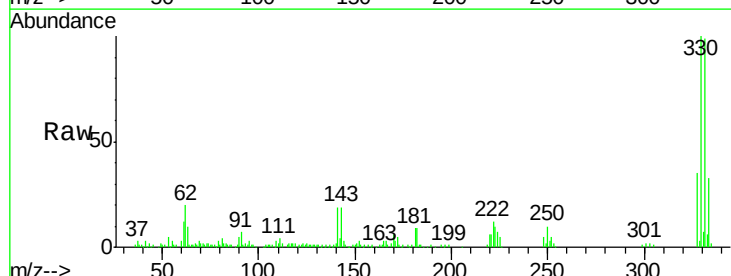
RT: 11.69 min Scan# 919

Delta R.T. 0.00 min

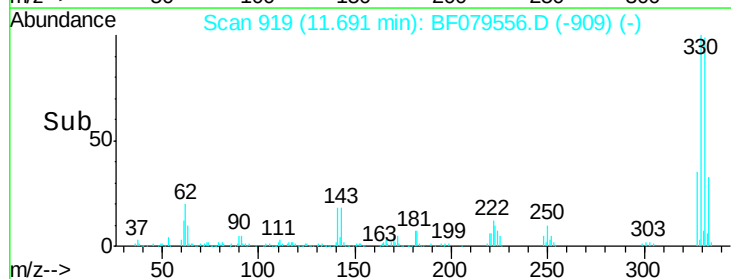
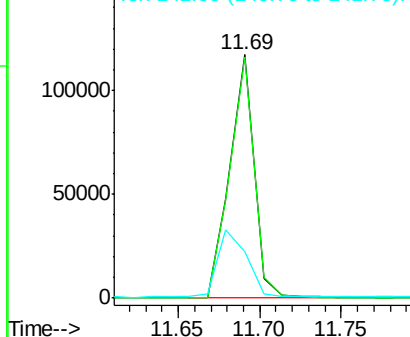
Lab File: BF079556.D

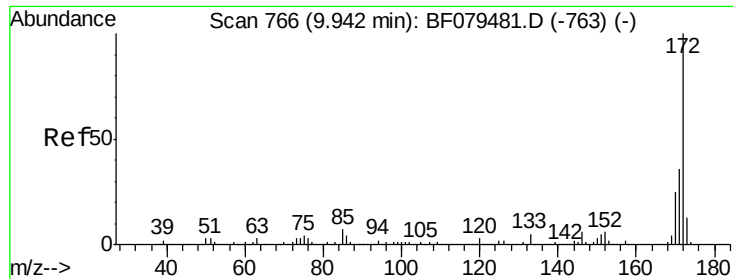
Acq: 28 May 2015 20:58

Tgt Ion:	330	Resp:	122077
Ion Ratio	Lower	Upper	
330	100		
332	98.8	0.0	0.0#
141	33.7	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





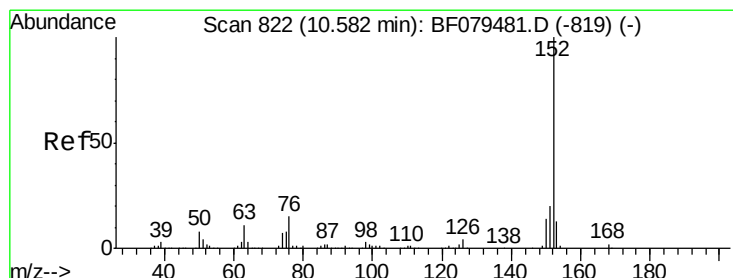
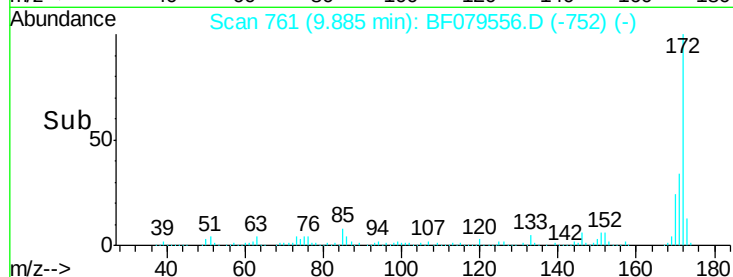
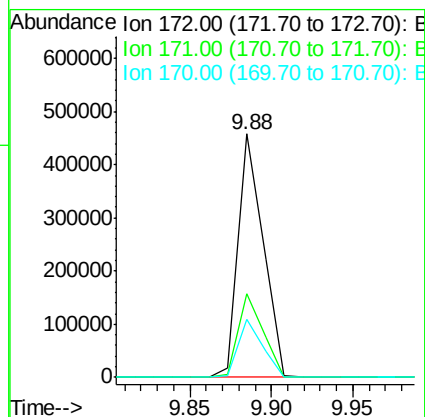
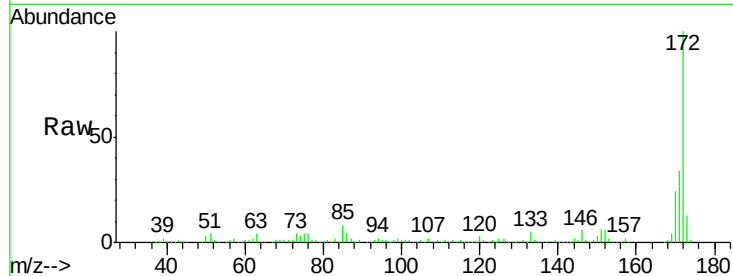
#44
2-Fluorobiphenyl
Concen: 47.24 ng
RT: 9.88 min Scan# 761
Delta R.T. 0.00 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

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ClientSampleId :
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Tot Ion:	172	Resp:	483395
Ion Ratio	Lower	Upper	
172	100		
171	34.4	28.5	42.7
170	23.7	19.7	29.5

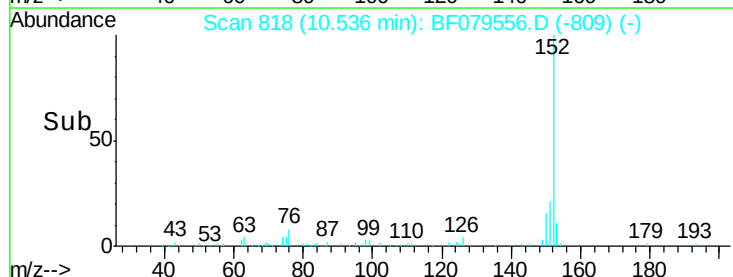
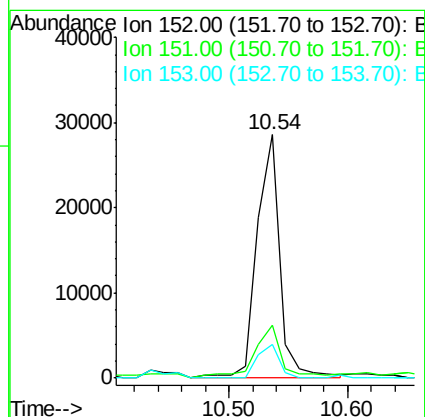
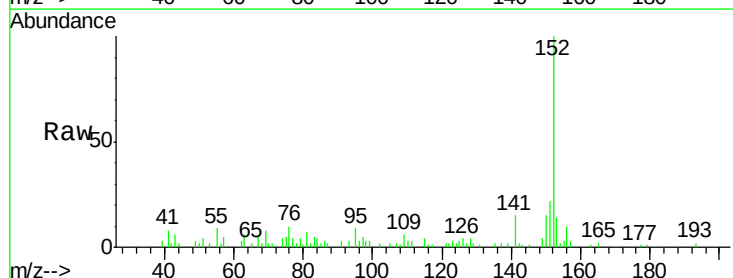
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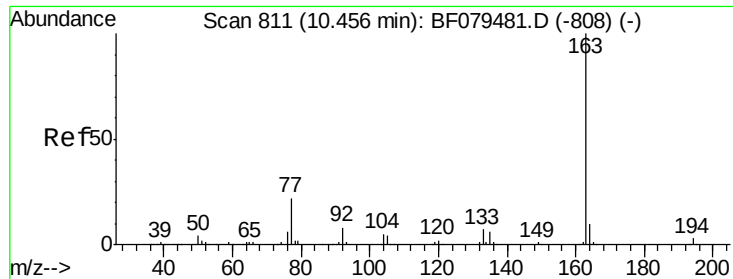
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#48
Acenaphthylene
Concen: 2.59 ng
RT: 10.54 min Scan# 818
Delta R.T. 0.00 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Tgt Ion:	152	Resp:	38662
Ion Ratio	Lower	Upper	
152	100		
151	21.8	15.8	23.8
153	13.9	10.7	16.1





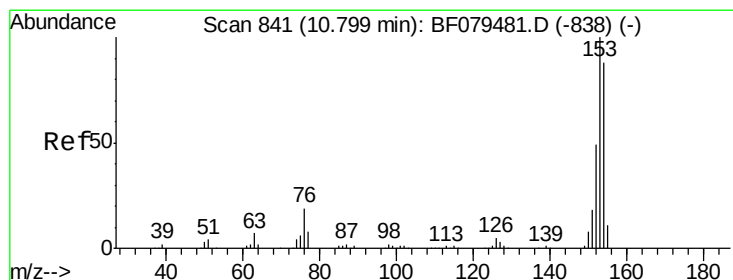
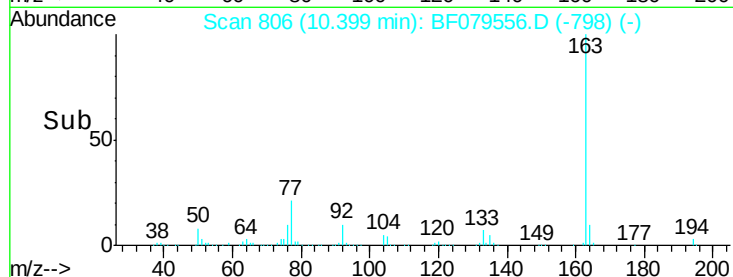
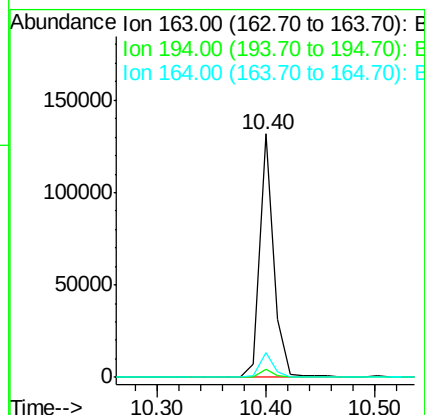
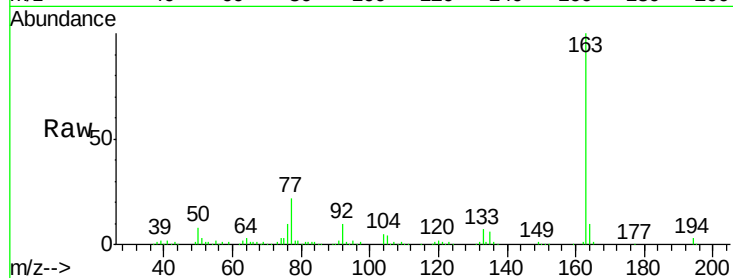
#49
Dimethylphthalate
Concen: 11.03 ng
RT: 10.40 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Instrument :
BNA_F
ClientSampleId :
SB-24S

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.1	2.4	3.6	
164	10.4	8.2	12.4	

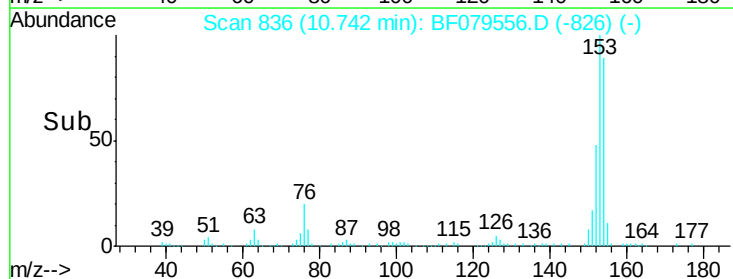
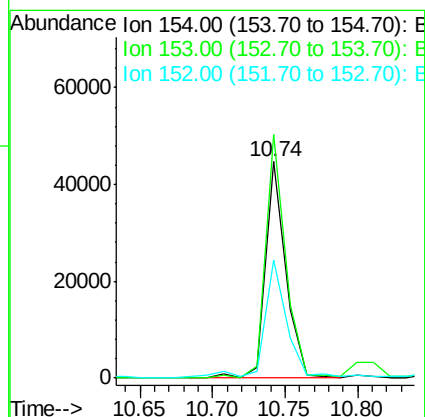
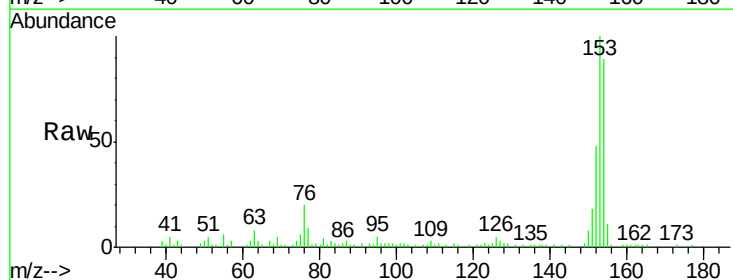
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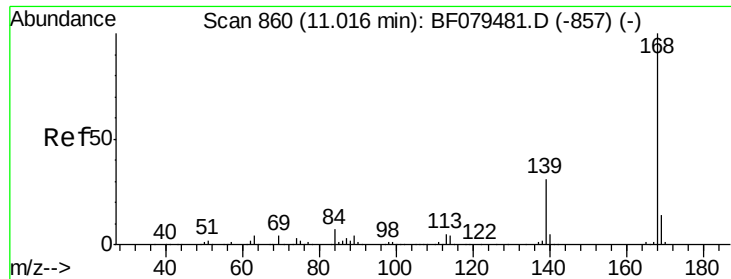
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#51
Acenaphthene
Concen: 5.01 ng
RT: 10.74 min Scan# 836
Delta R.T. 0.00 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	112.6	91.1	136.7	
152	54.5	44.6	66.8	





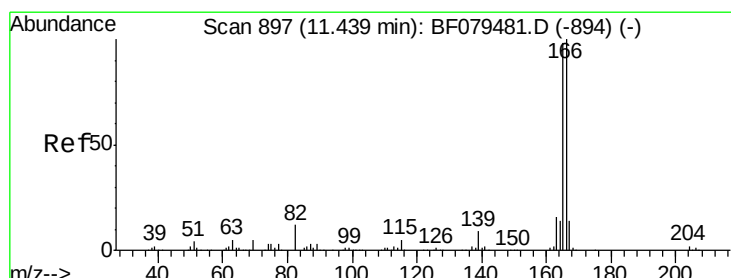
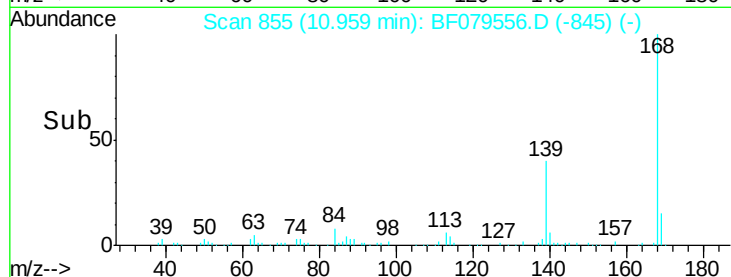
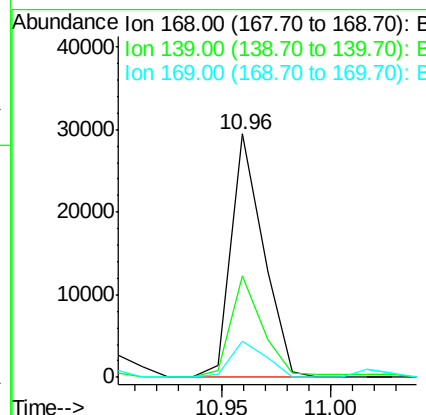
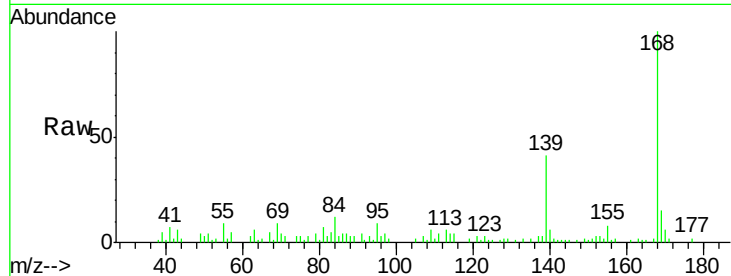
#54
Dibenzofuran
Concen: 2.41 ng
RT: 10.96 min Scan# 855
Delta R.T. 0.00 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Instrument :
BNA_F
ClientSampleId :
SB-24S

Tot Ion	Ratio	Resp	Lower	Upper
168	100	30380		
139	41.5		32.9	49.3
169	15.0		11.1	16.7

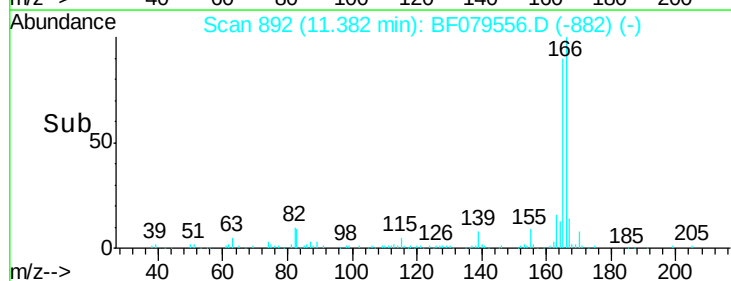
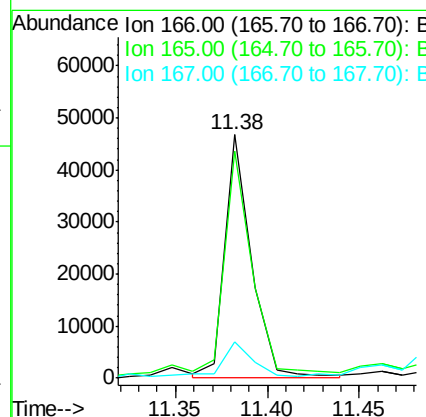
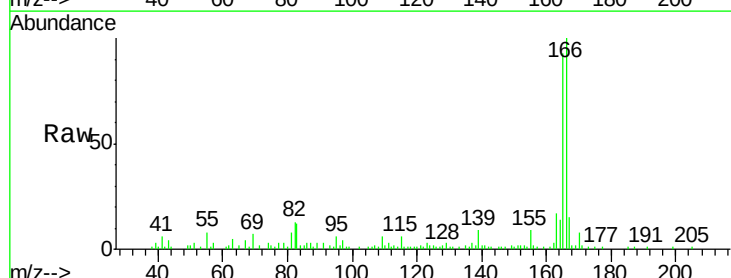
Manual Integrations
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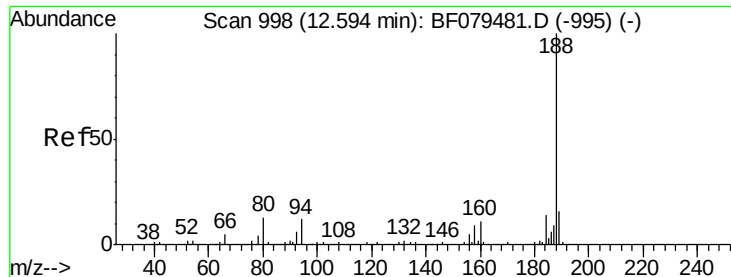
apatel
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#57
Fluorene
Concen: 4.65 ng m
RT: 11.38 min Scan# 892
Delta R.T. 0.00 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	48334		
165	93.3		78.6	117.8
167	14.8		10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.54 min Scan# 993

Delta R.T. 0.00 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

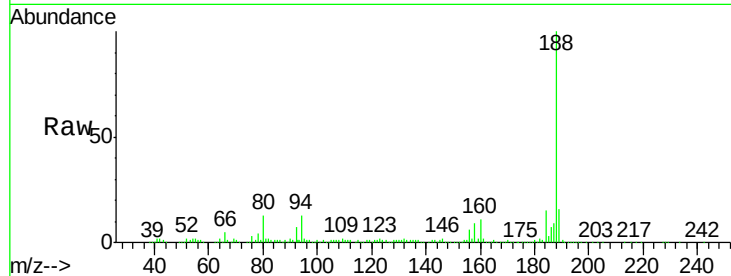
ClientSampleId :

SB-24S

Tot Ion:	188	Resp:	279856
Ion Ratio	Lower	Upper	
188	100		
94	12.8	9.8	14.6
80	12.9	10.5	15.7

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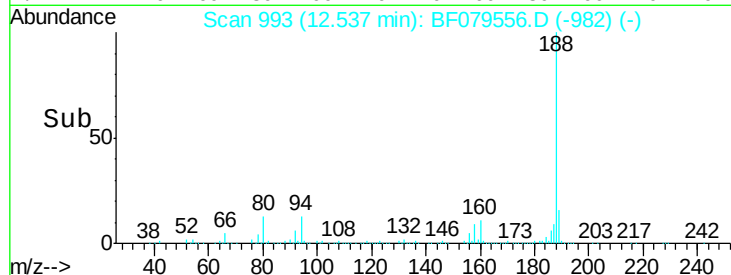


Abundance Ion 188.00 (187.70 to 188.70): E

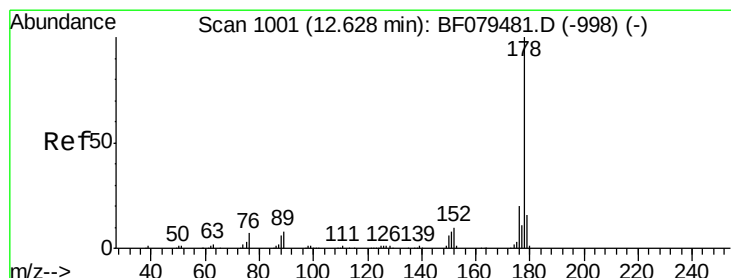
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

12.54



Time-->



#70

Phenanthrene

Concen: 35.54 ng

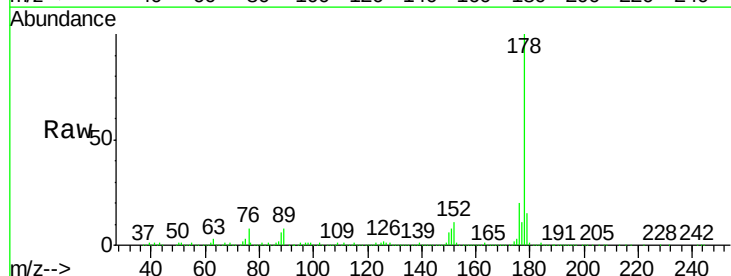
RT: 12.57 min Scan# 996

Delta R.T. 0.00 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Tgt Ion:	178	Resp:	545573
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.7	23.5
179	15.4	12.4	18.6

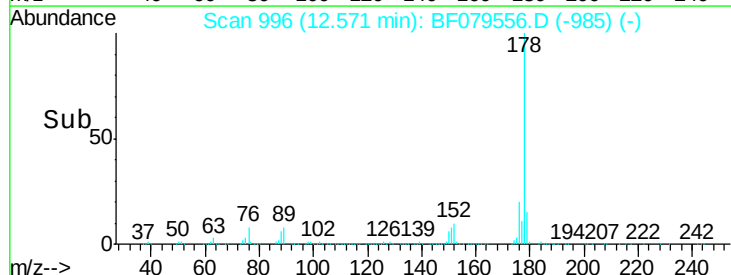


Abundance Ion 178.00 (177.70 to 178.70): E

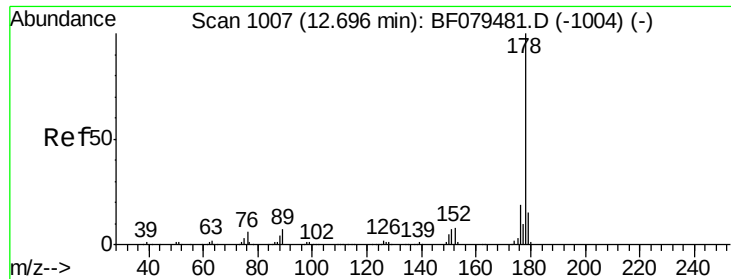
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

12.57



Time-->



#71

Anthracene

Concen: 9.63 ng

RT: 12.63 min Scan# 1001

Delta R.T. 0.00 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

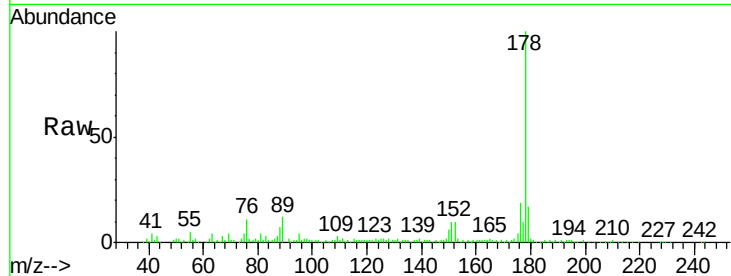
ClientSampled :

SB-24S

Tot Ion:	178	Resp:	150174
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.3	22.9
179	17.1	12.2	18.4

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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

12.63

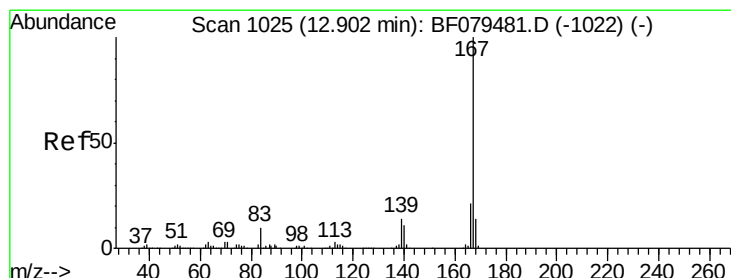
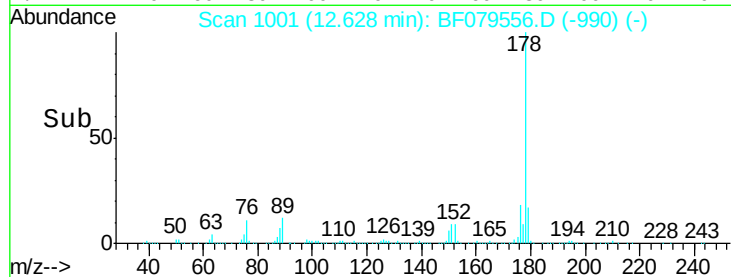
100000

50000

0

12.60 12.65

Time-->



#72

Carbazole

Concen: 2.84 ng

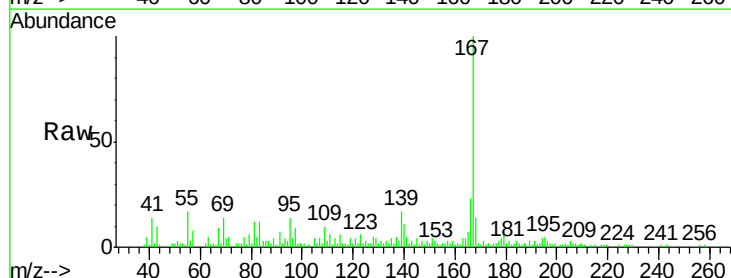
RT: 12.85 min Scan# 1020

Delta R.T. 0.00 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Tgt Ion:	167	Resp:	42553
Ion Ratio	Lower	Upper	
167	100		
166	23.5	17.0	25.4
139	16.5	11.2	16.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

12.85

50000

40000

30000

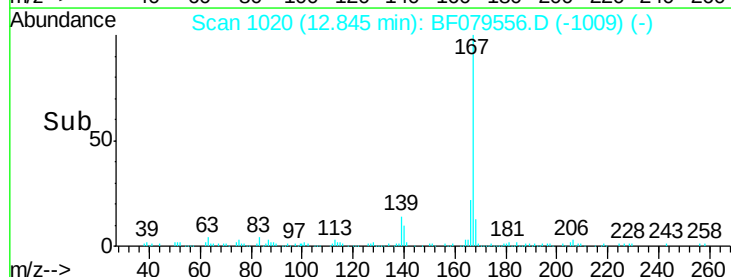
20000

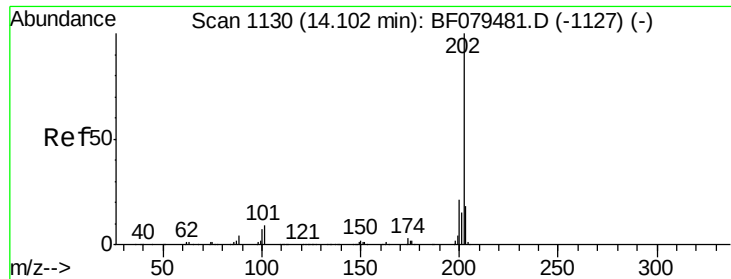
10000

0

12.80 12.90

Time-->





#74

Fluoranthene

Concen: 48.91 ng

RT: 14.05 min Scan# 1125

Delta R.T. 0.01 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

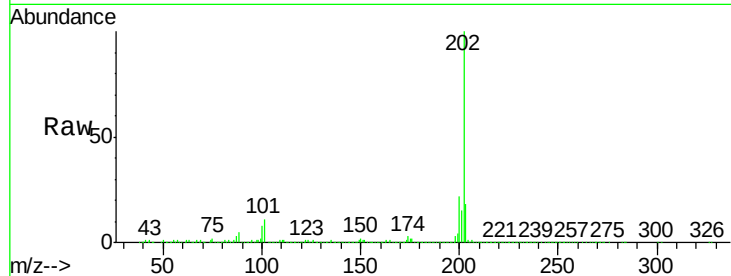
ClientSampled :

SB-24S

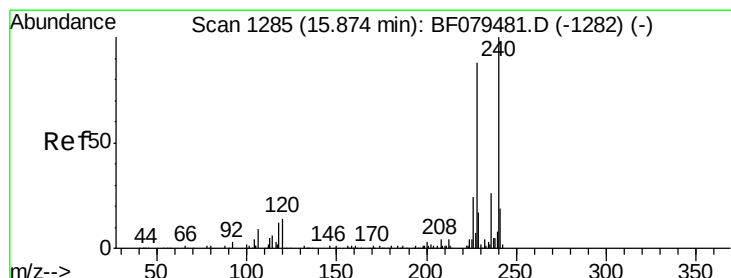
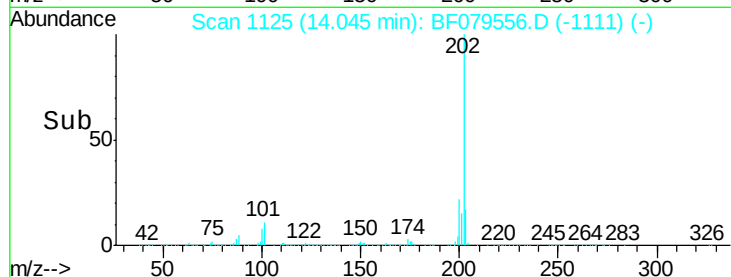
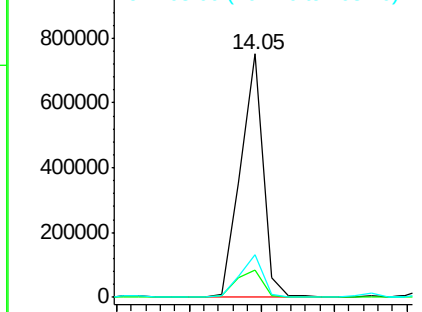
Tot Ion	Ratio	Resp	Lower	Upper
202	100	805294		
101	11.1	0.0	29.3	
203	17.7	0.0	37.6	

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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

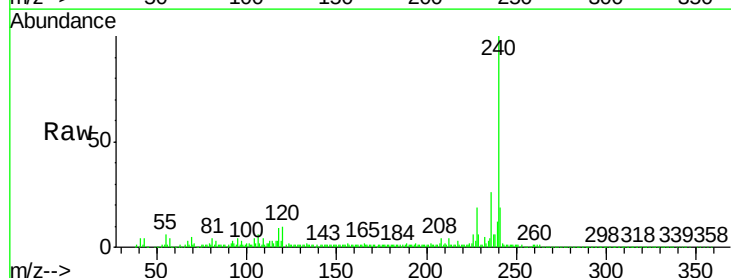
RT: 15.83 min Scan# 1281

Delta R.T. -0.01 min

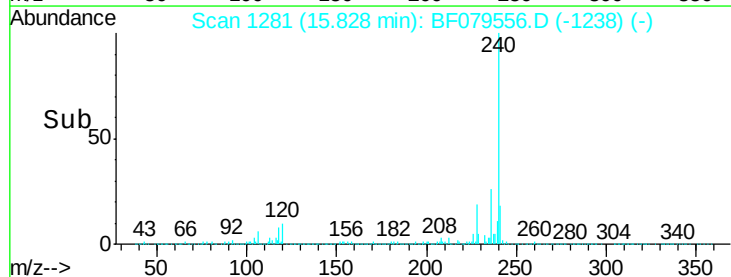
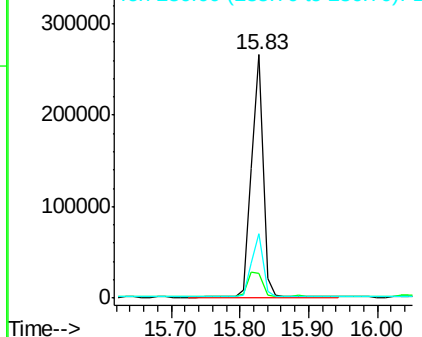
Lab File: BF079556.D

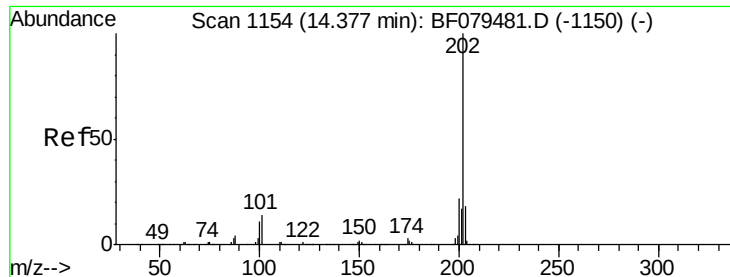
Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	303817		
120	10.4	10.8	16.2#	
236	26.2	21.0	31.6	



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

Pvrene

Concen: 43.24 ng

RT: 14.32 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

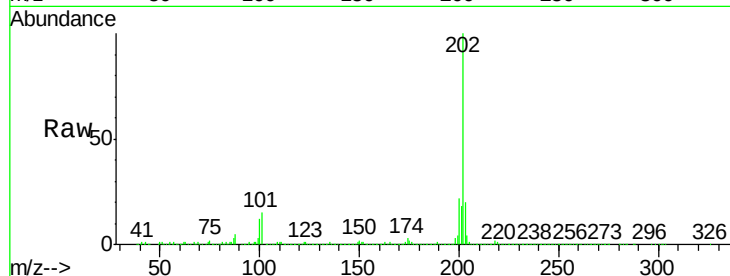
ClientSampled :

SB-24S

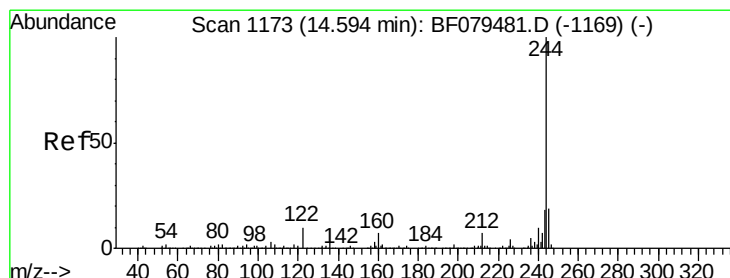
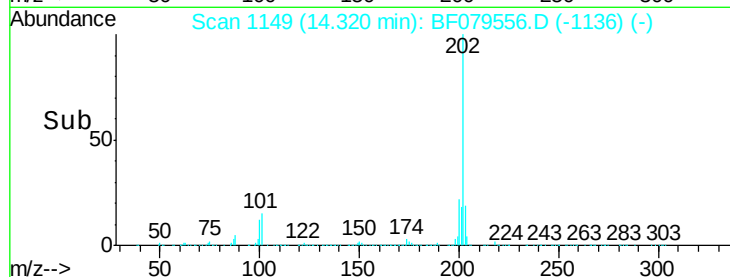
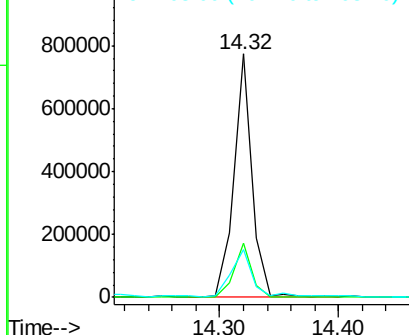
Tot Ion:	202	Resp:	813828
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.5	26.3
203	19.7	14.4	21.6

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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: 43.84 ng

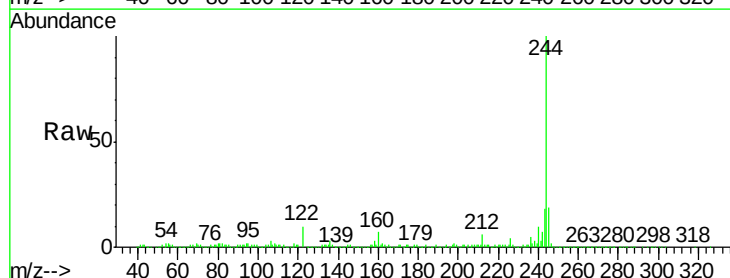
RT: 14.54 min Scan# 1168

Delta R.T. 0.00 min

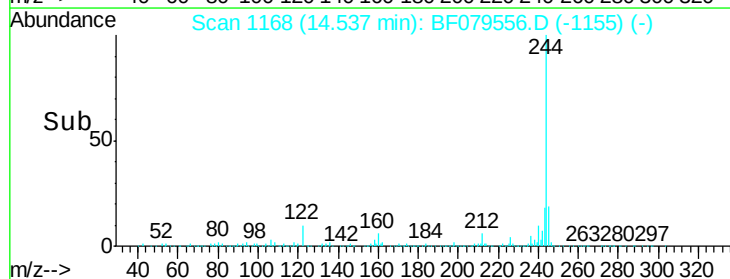
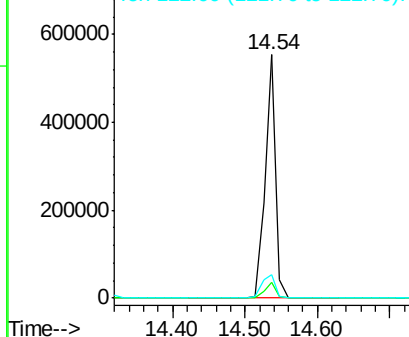
Lab File: BF079556.D

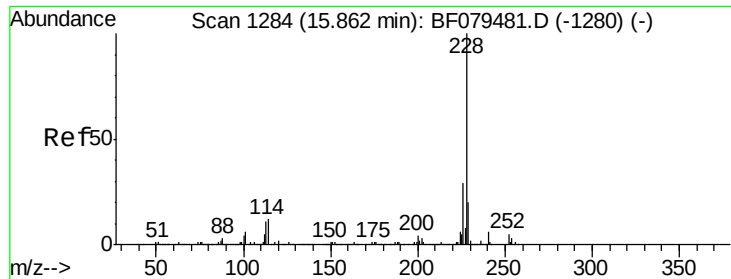
Acq: 28 May 2015 20:58

Tgt Ion:	244	Resp:	567506
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.2	7.8
122	9.9	8.0	12.0



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





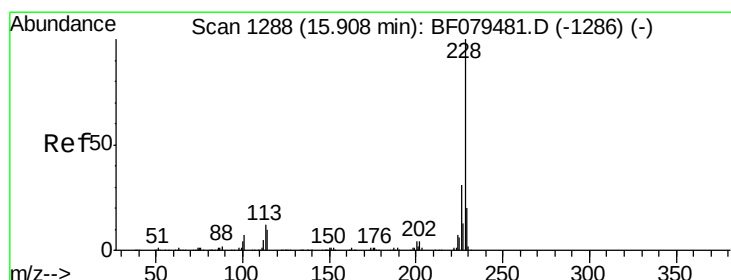
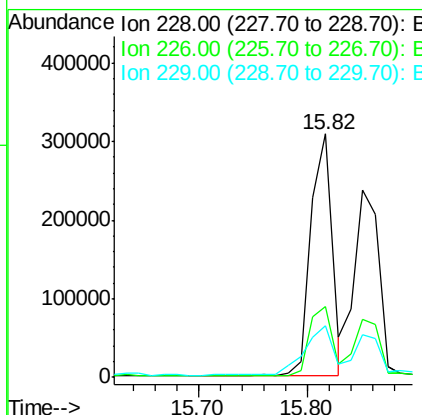
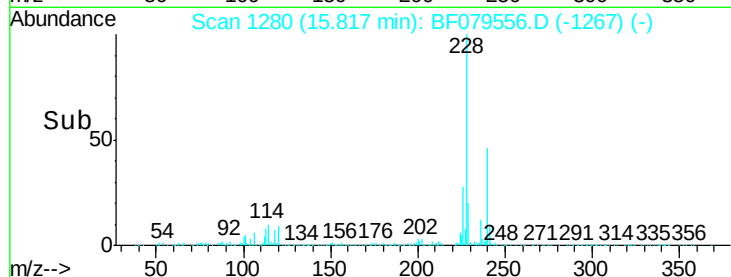
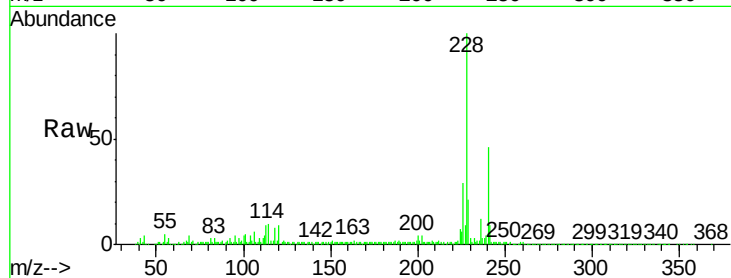
#80
Benzo(a)anthracene
Concen: 24.00 ng
RT: 15.82 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Instrument :
BNA_F
ClientSampleId :
SB-24S

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.8	34.2
229	21.0	15.9	23.9

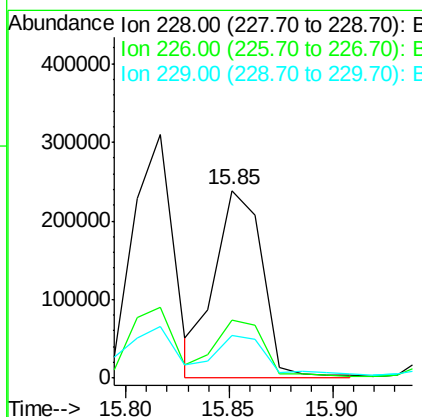
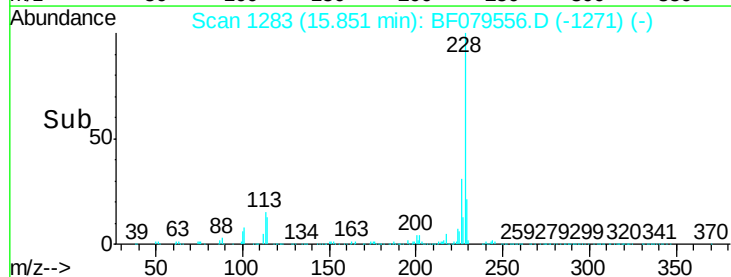
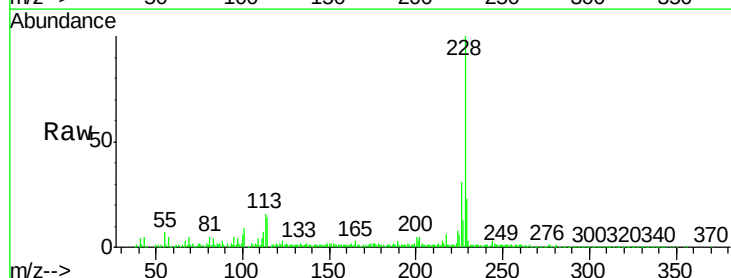
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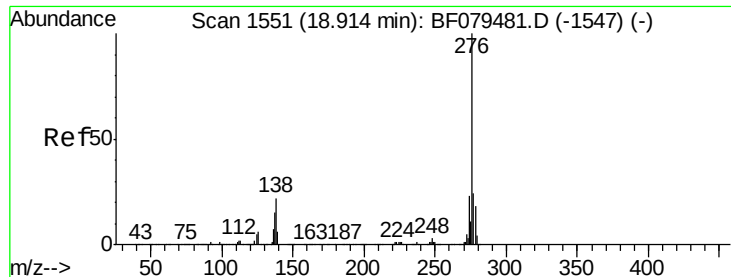
apatel
5/29/2015 5:12:54 PM



#82
Chrysene
Concen: 23.07 ng m
RT: 15.85 min Scan# 1283
Delta R.T. -0.02 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.4
229	22.7	15.9	23.9





#85

Indeno(1,2,3-cd)pyrene

Concen: 12.33 ng

RT: 18.90 min Scan# 1550

Delta R.T. -0.11 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

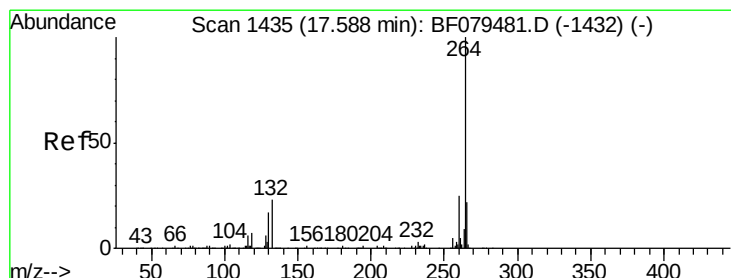
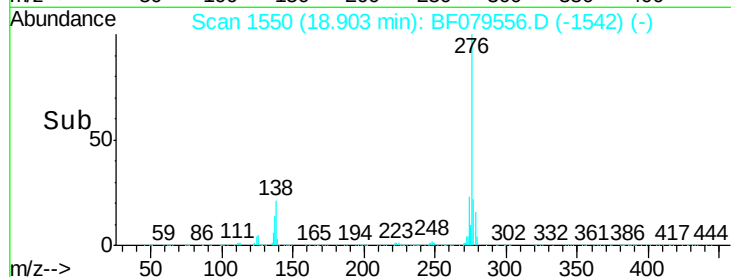
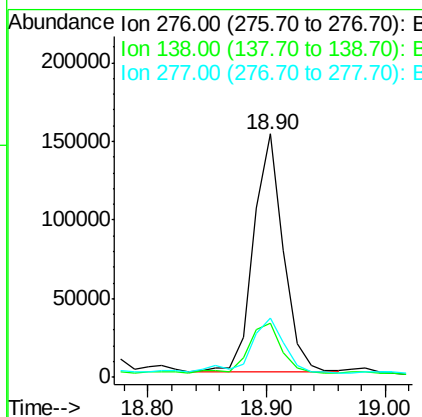
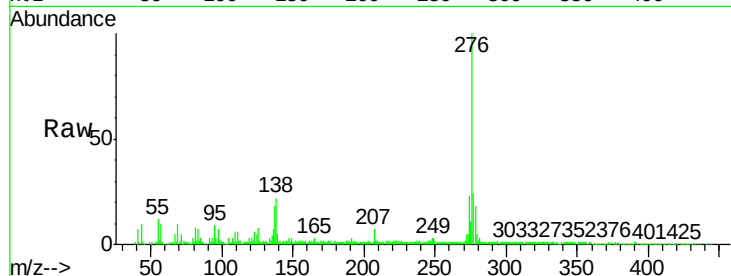
ClientSampleId :

SB-24S

Tot Ion	Ratio	Resp	Lower	Upper
276	100	263530		
138	24.3		21.4	32.2
277	25.6		19.8	29.6

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#86

Perylene-d12

Concen: 20.00 ng

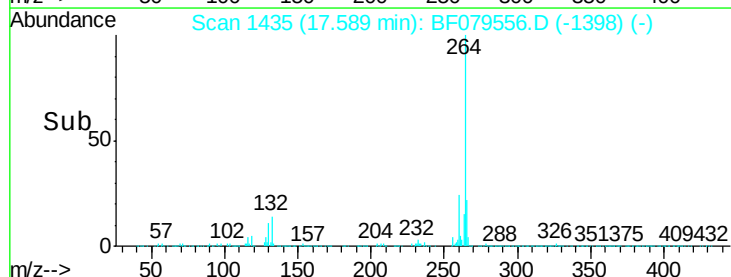
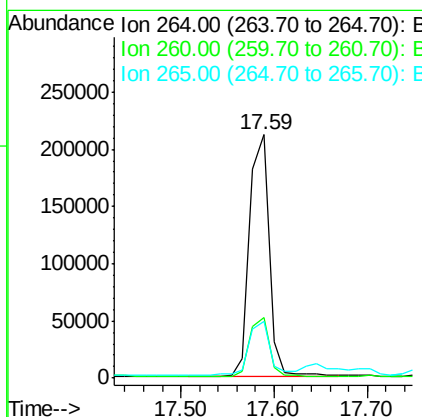
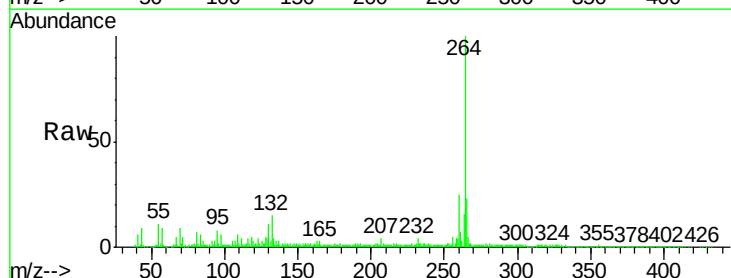
RT: 17.59 min Scan# 1435

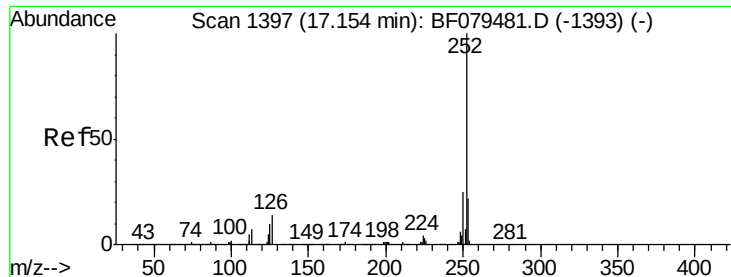
Delta R.T. -0.08 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	311594		
260	25.0		19.8	29.8
265	23.0		17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 33.00 ng m

RT: 17.13 min Scan# 1395

Delta R.T. -0.07 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Instrument :

BNA_F

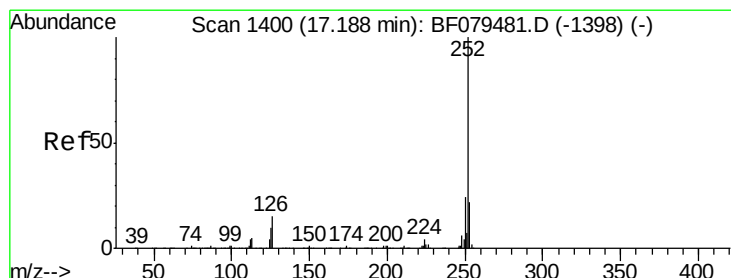
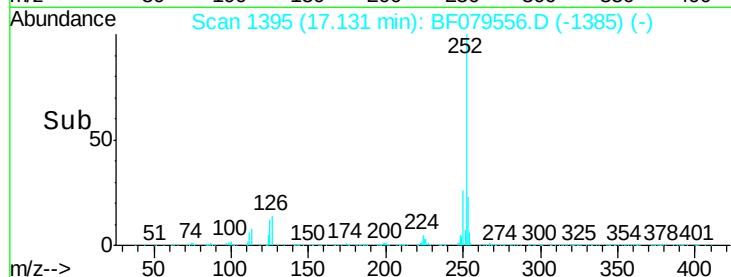
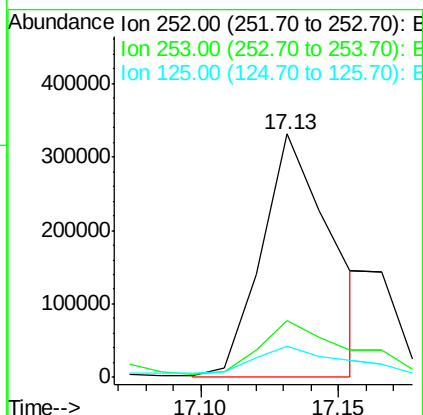
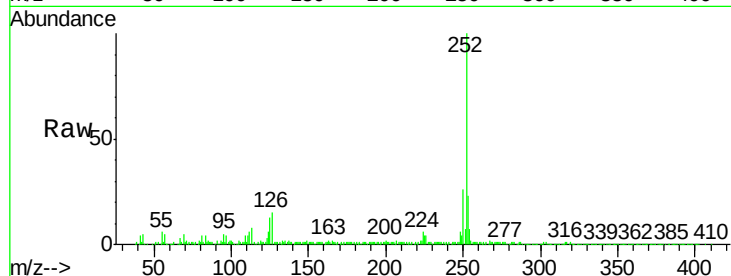
ClientSampled :

SB-24S

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.6	26.4
125	13.0	7.8	11.6

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#88

Benzo(k)fluoranthene

Concen: 7.45 ng m

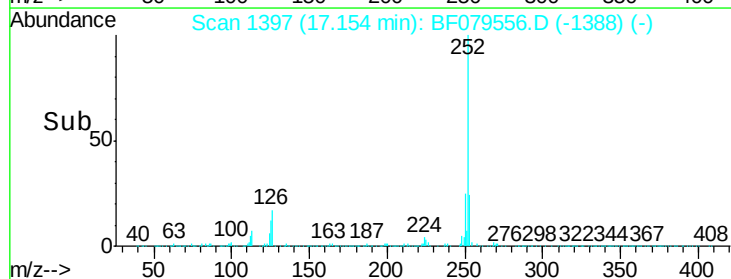
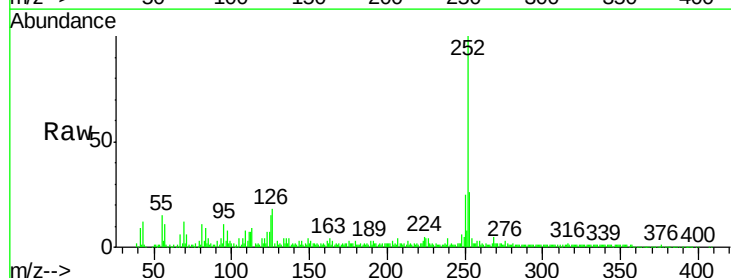
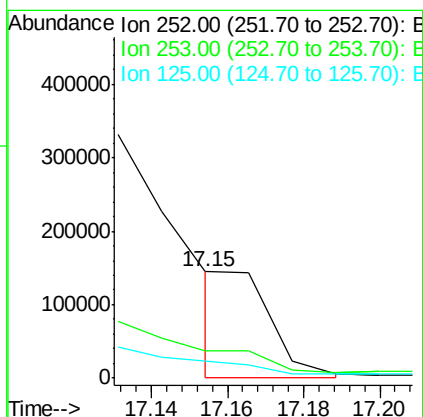
RT: 17.15 min Scan# 1397

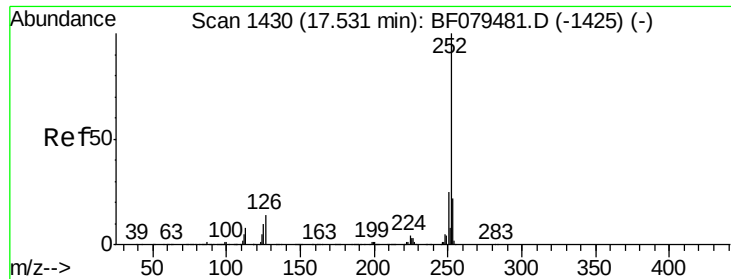
Delta R.T. -0.08 min

Lab File: BF079556.D

Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.2	25.8
125	15.5	6.8	10.2





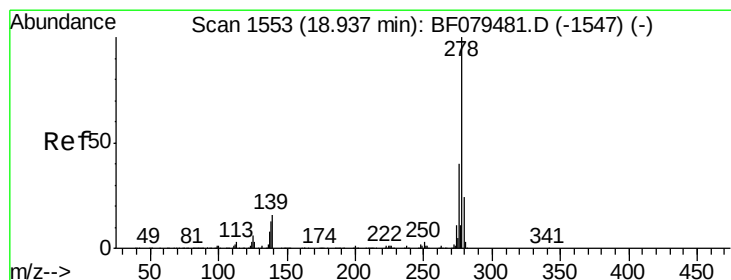
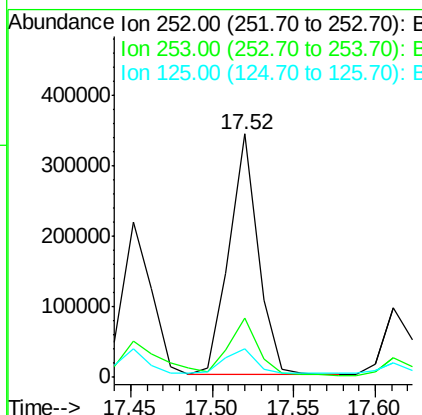
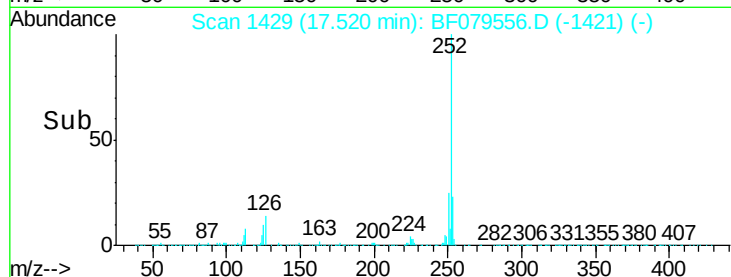
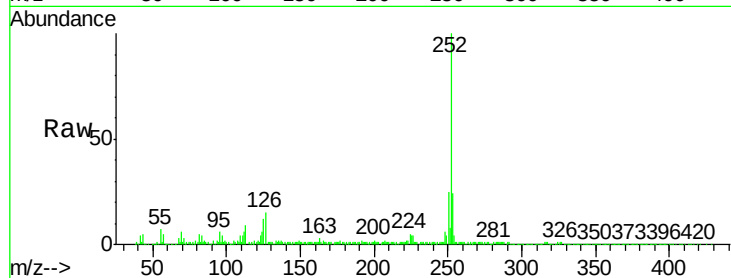
#89
Benzo(a)pyrene
Concen: 26.04 ng
RT: 17.52 min Scan# 1429
Delta R.T. -0.09 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Instrument :
BNA_F
ClientSampleId :
SB-24S

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.8	26.8
125	12.0	7.9	11.9#

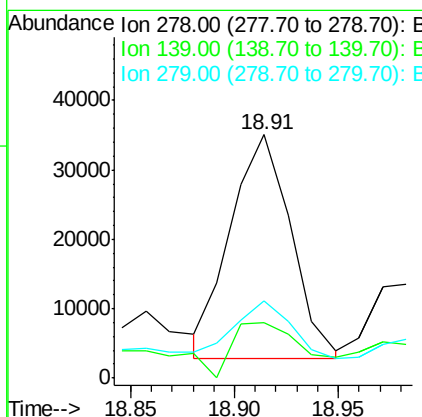
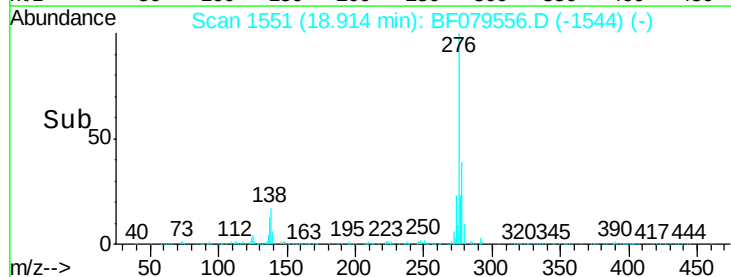
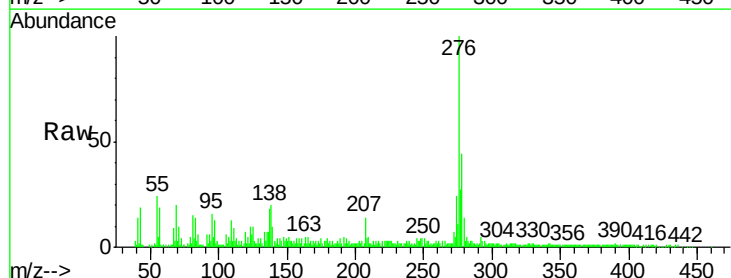
Manual Integrations
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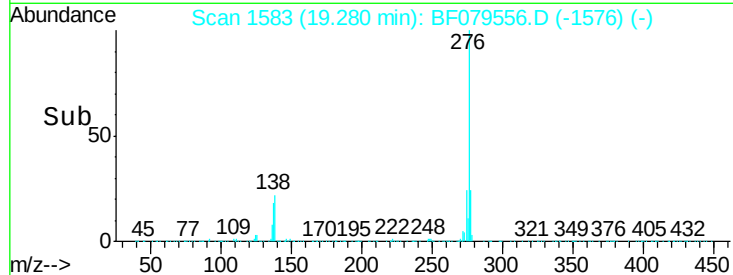
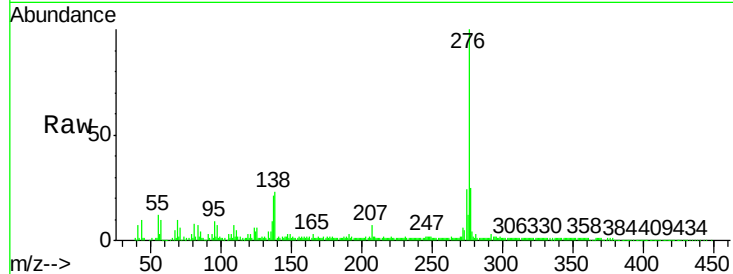
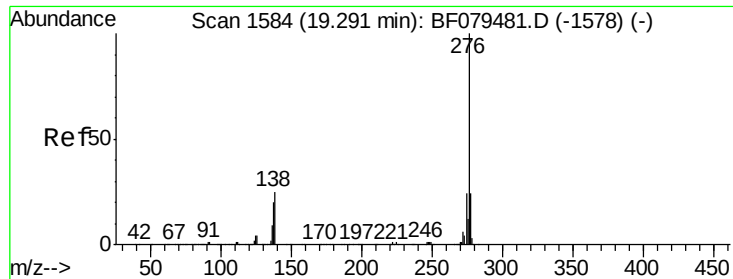
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5/29/2015 5:12:54 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.59 ng m
RT: 18.91 min Scan# 1551
Delta R.T. -0.13 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.8	12.8	19.2#
279	31.6	19.1	28.7#





#91
Benzo(a,h,i)perylene
Concen: 15.35 ng
RT: 19.28 min Scan# 1583
Delta R.T. -0.13 min
Lab File: BF079556.D
Acq: 28 May 2015 20:58

Instrument :
BNA_F
ClientSampleId :
SB-24S

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	25.4	19.1	28.7
138	23.3	20.1	30.1

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:54 PM

