

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
 Data File : BE089470.D
 Acq On : 3 Feb 2015 18:54
 Operator : TP/IZ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Manual Integrations
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Quant Time: Feb 04 00:40:57 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 04 00:22:17 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.52	152	57865	5.00	ng	0.00
7) Naphthalene-d8	12.43	136	228947	5.00	ng	0.00
13) Acenaphthene-d10	16.61	164	98569	5.00	ng	0.00
17) Phenanthrene-d10	19.93	188	189949	5.00	ng	0.00
20) Chrysene-d12	23.78	240	187798	5.00	ng	0.00
27) Perylene-d12	25.49	264	175236	5.00	ng	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	6.72	112	9245	0.48	ng	0.00
4) Phenol-d6	8.83	99	11574	0.51	ng	0.00
8) Nitrobenzene-d5	10.79	82	8372	0.50	ng	0.00
14) 2,4,6-Tribromophenol	18.51	330	1457	0.57	ng	0.00
15) 2-Fluorobiphenyl	15.06	172	12910	0.47	ng	0.00
22) Terphenyl-d14	22.43	244	13055	0.60	ng	0.00
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.58	42	4984	0.54	ng	# 79
5) Phenol	8.86	94	13002m	0.53	ng	
6) bis(2-Chloroethyl)ether	9.01	93	9177	0.51	ng	# 100
9) Nitrobenzene	10.83	77	9589	0.51	ng	100
10) 2,4-Dimethylphenol	11.77	122	6944	0.51	ng	99
11) 2,4-Dichlorophenol	12.15	162	5103	0.50	ng	97
12) Hexachlorobutadiene	12.81	225	3499	0.48	ng	98
16) 2,4-Dinitrophenol	16.84	184	119	0.20	ng	# 79
18) Hexachlorobenzene	19.16	284	4934	0.49	ng	# 82
19) Pentachlorophenol	19.61	266	363	0.31	ng	91
21) Benzidine	22.09	184	3384	0.25	ng	98
23) Benzo(a)anthracene	23.77	228	81685	0.54	ng	99
24) 3,3'-Dichlorobenzidine	23.76	252	5837	0.44	ng	97
25) Chrysene	23.82	228	86438	0.48	ng	99
26) Indeno(1,2,3-cd)pyrene	26.96	276	16510	0.31	ng	# 80
28) Benzo(b)fluoranthene	25.04	252	11960	0.50	ng	98
29) Benzo(k)fluoranthene	25.07	252	23725	0.54	ng	97
30) Benzo(a)pyrene	25.42	252	12588	0.47	ng	98
31) Dibenzo(a,h)anthracene	26.99	278	12647	0.39	ng	97

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

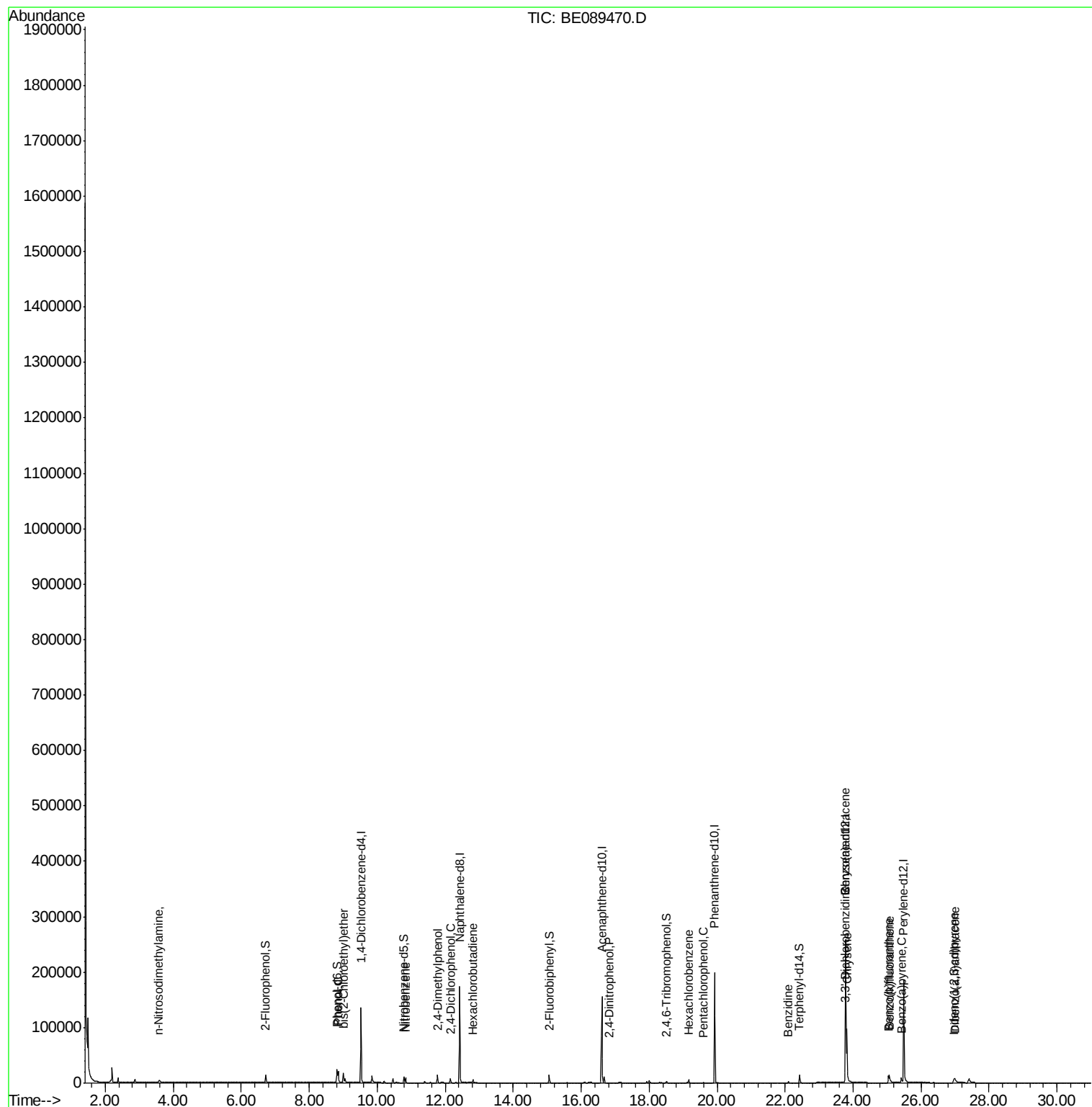
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
Data File : BE089470.D
Acq On : 3 Feb 2015 18:54
Operator : TP/IZ
Sample : SSTDICC0.5
Misc :
ALS Vial : 7 Sample Multiplier: 1

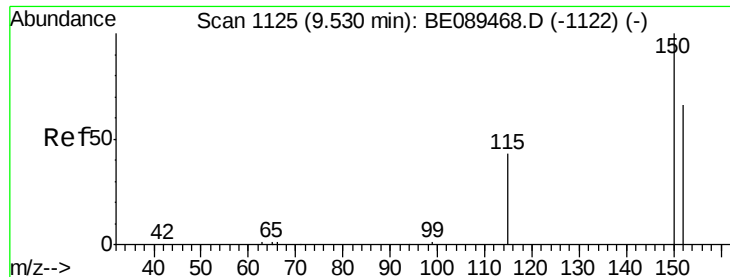
Instrument :
BNA_E
LabSampleId :
SSTDICC0.5

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.52 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

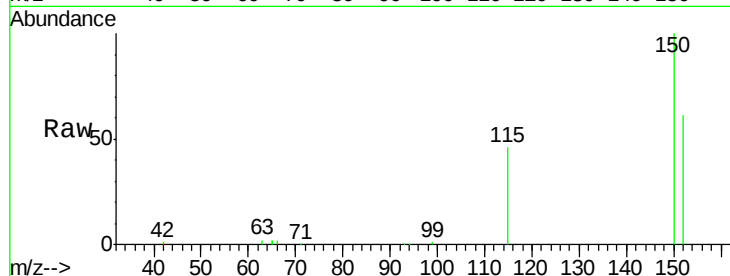
LabSampleId :

SSTDIC0.5

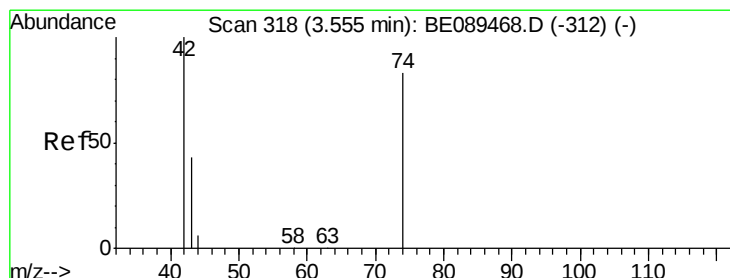
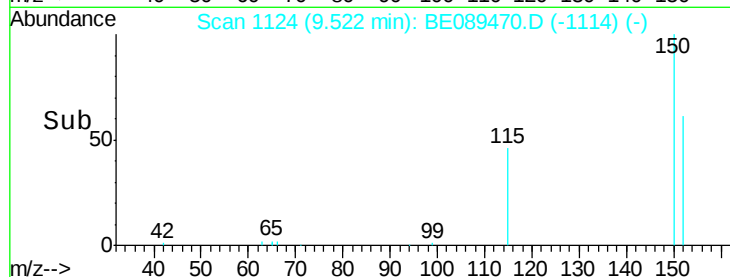
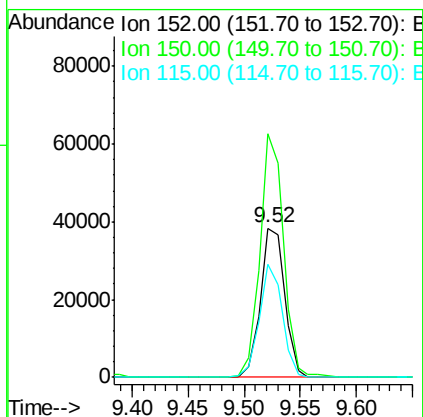
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Tgt Ion:	152	Resp:	57865
Ion Ratio	Lower	Upper	
152	100		
150	162.9	122.1	183.1
115	75.5	53.2	79.8



#2

n-Nitrosodimethylamine

Concen: 0.54 ng

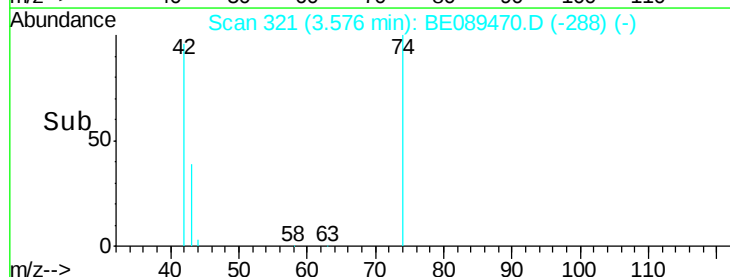
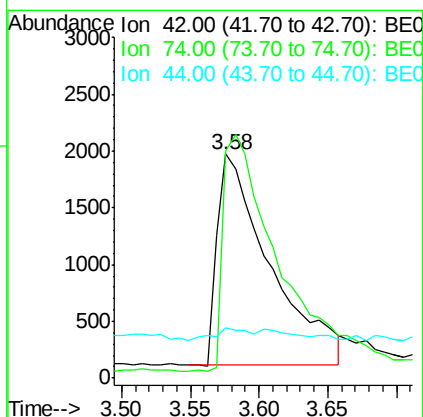
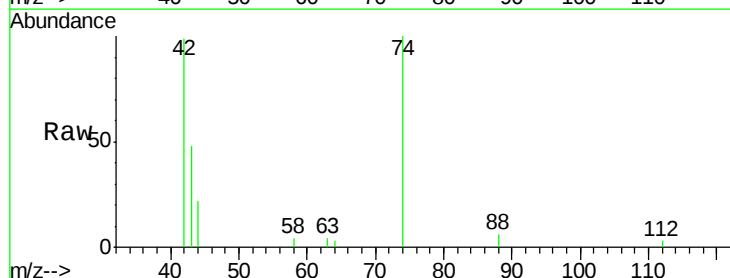
RT: 3.58 min Scan# 321

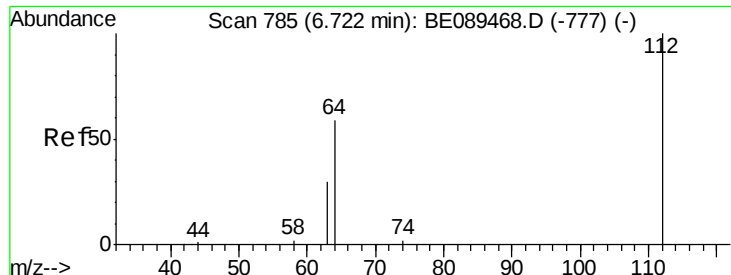
Delta R.T. 0.02 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion:	42	Resp:	4984
Ion Ratio	Lower	Upper	
42	100		
74	101.3	65.4	98.2#
44	22.5	11.7	17.5#





#3

2-Fluorophenol

Concen: 0.48 ng

RT: 6.72 min Scan# 784

Delta R.T. -0.01 min

Lab File: BE089470.D

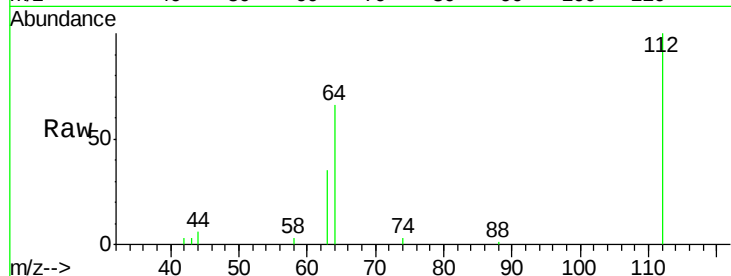
Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

LabSampleId :

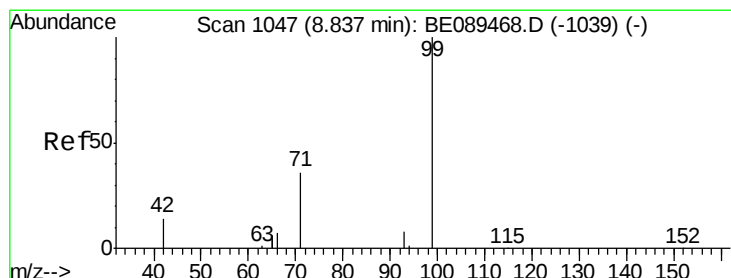
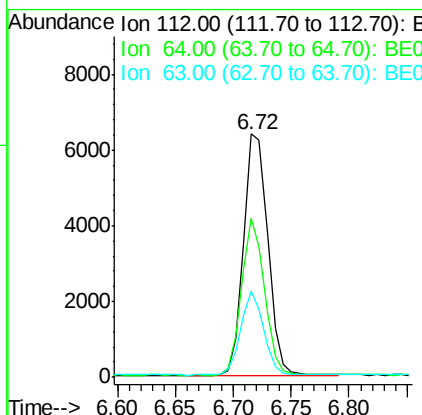
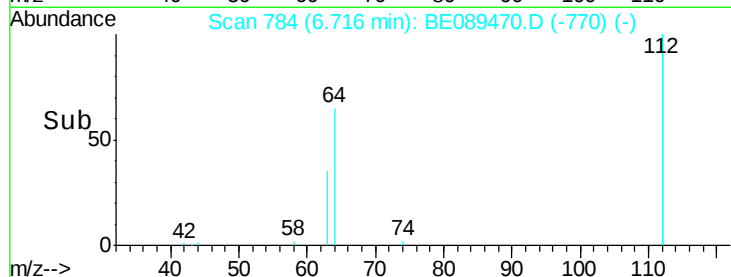
SSTDICC0.5



Tgt Ion:	112	Resp:	9245
Ion	Ratio	Lower	Upper
112	100		
64	65.5	47.0	70.6
63	35.3	24.2	36.2

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#4

Phenol-d6

Concen: 0.51 ng

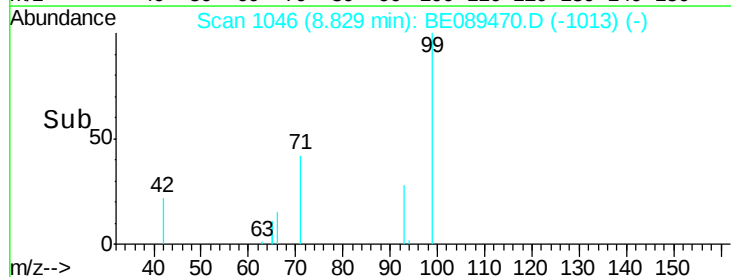
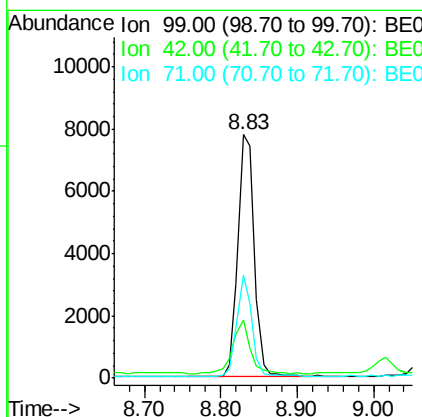
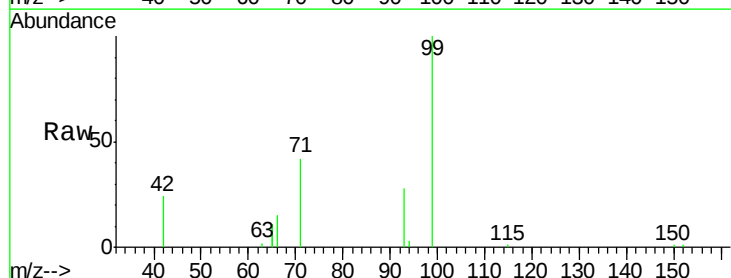
RT: 8.83 min Scan# 1046

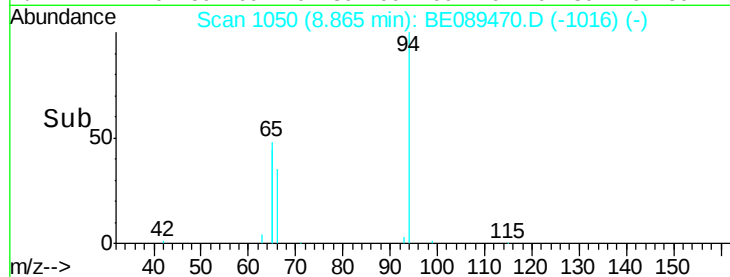
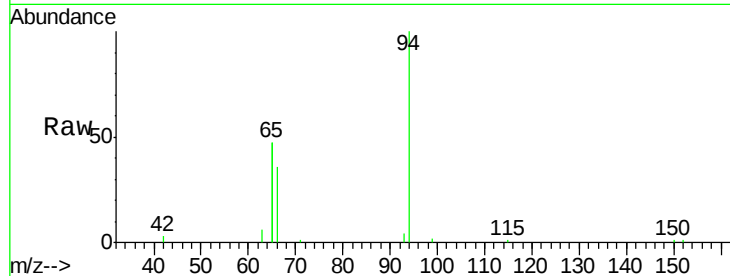
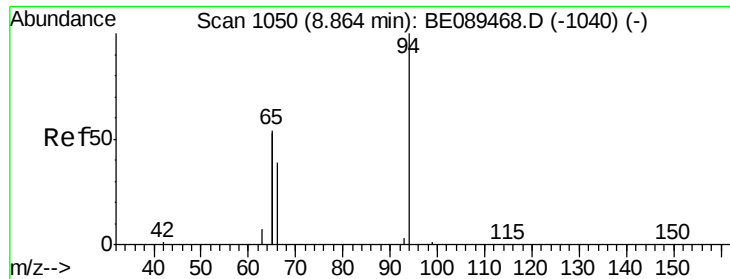
Delta R.T. -0.01 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion:	99	Resp:	11574
Ion	Ratio	Lower	Upper
99	100		
42	23.9	11.8	17.6#
71	42.3	28.7	43.1





#5

Phenol

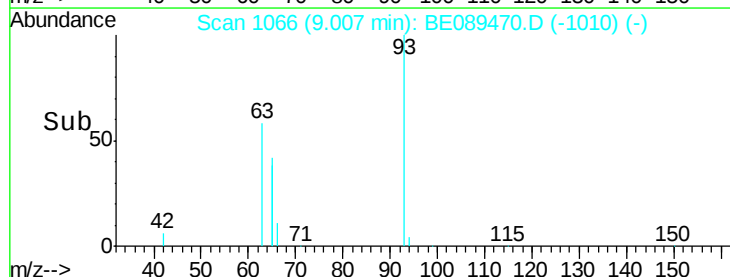
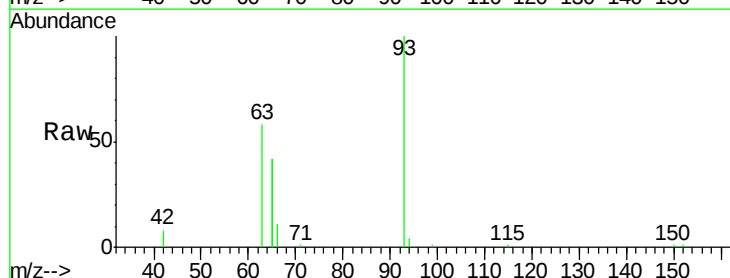
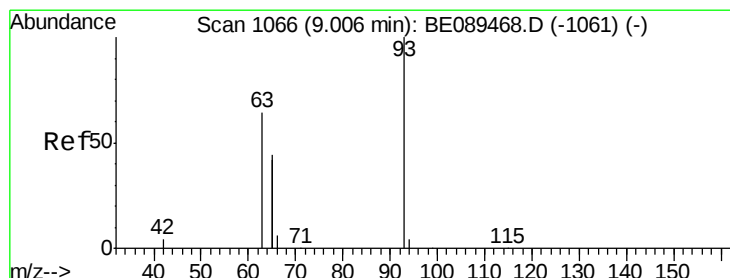
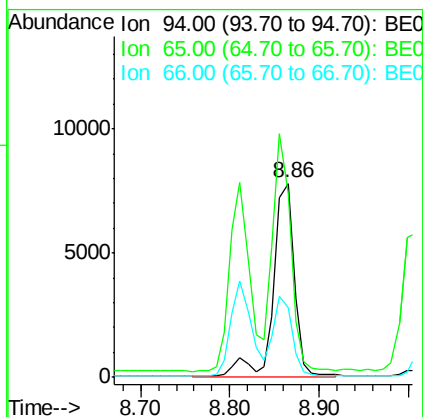
Concen: 0.53 ng m
RT: 8.86 min Scan# 1050
Delta R.T. 0.00 min
Lab File: BE089470.D
Acq: 3 Feb 2015 18:54

Instrument :
BNA_E
LabSampleId :
SSTDICC0.5

Tgt Ion	Ratio	Lower	Upper
94	100		
65	47.4	33.9	73.9
66	35.6	19.1	59.1

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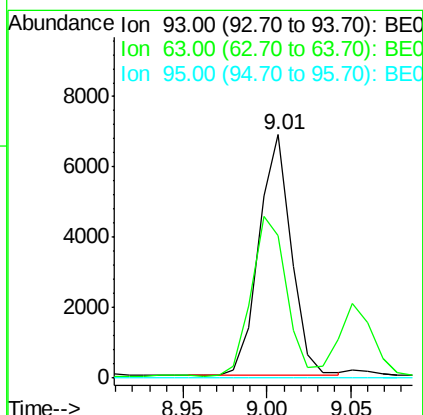


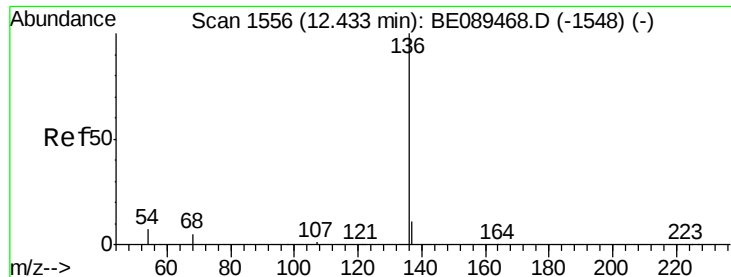
#6

bis(2-Chloroethyl)ether

Concen: 0.51 ng
RT: 9.01 min Scan# 1066
Delta R.T. 0.00 min
Lab File: BE089470.D
Acq: 3 Feb 2015 18:54

Tgt Ion	Ratio	Lower	Upper
93	100		
63	71.6	57.0	85.6
95	0.0	0.0	0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.43 min Scan# 1556

Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

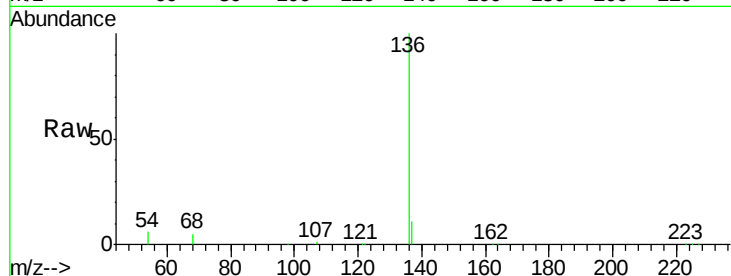
LabSampleId :

SSTDIC0.5

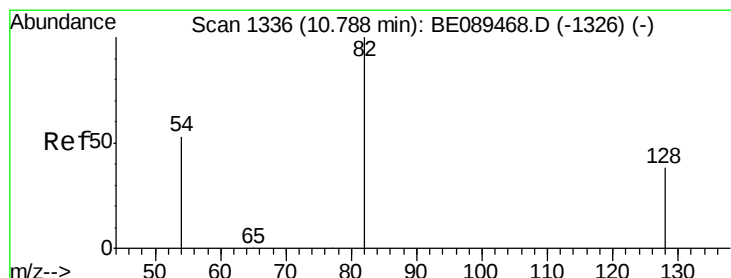
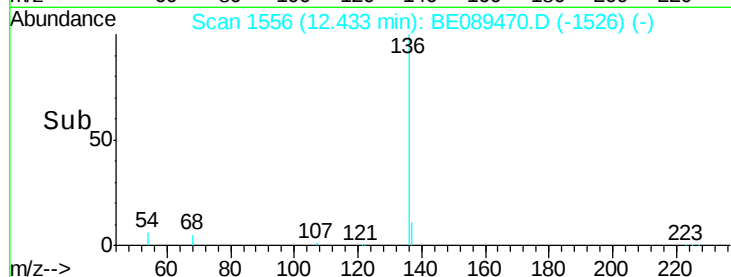
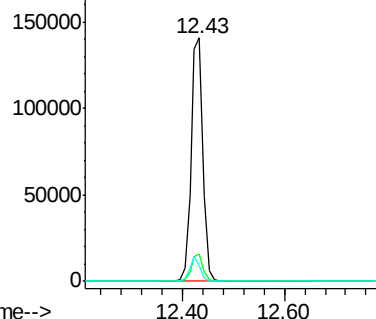
Tgt Ion:	136	Resp:	228947
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.6	13.0
54	6.3	5.4	8.0

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0



#8

Nitrobenzene-d5

Concen: 0.50 ng

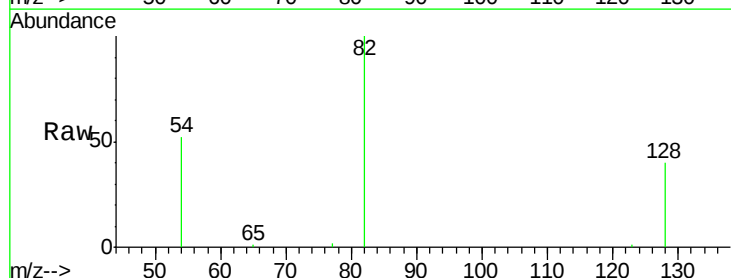
RT: 10.79 min Scan# 1336

Delta R.T. 0.00 min

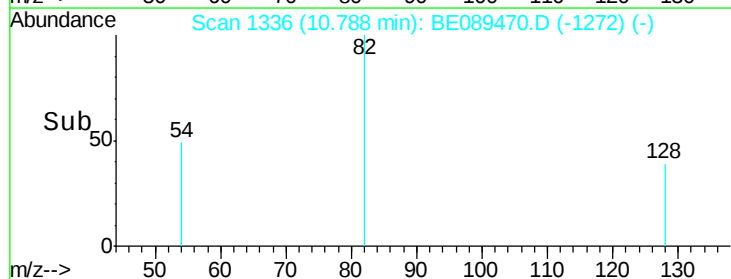
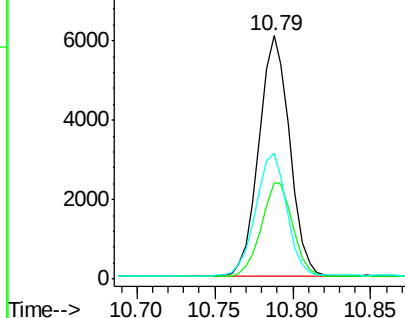
Lab File: BE089470.D

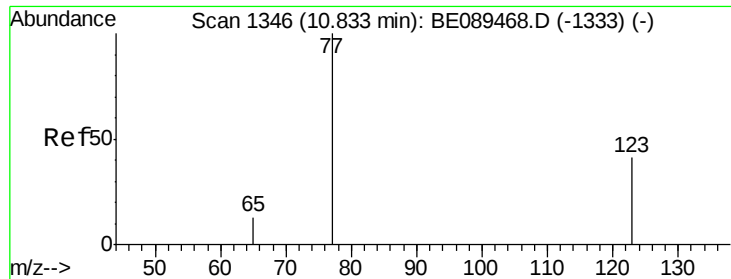
Acq: 3 Feb 2015 18:54

Tgt Ion:	82	Resp:	8372
Ion Ratio	Lower	Upper	
82	100		
128	39.7	30.3	45.5
54	51.8	43.1	64.7



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.51 ng

RT: 10.83 min Scan# 1346

Delta R.T. 0.00 min

Lab File: BE089470.D

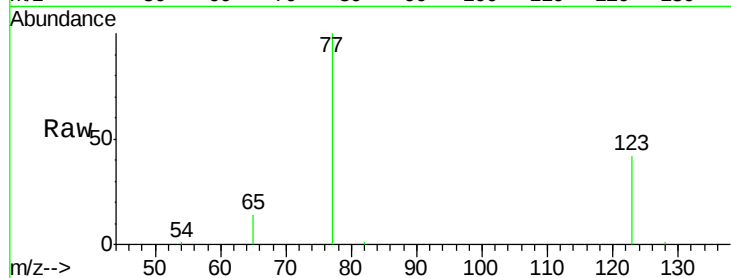
Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

LabSampleId :

SSTDIC0.5



Tgt Ion: 77 Resp: 9589

Ion Ratio Lower Upper

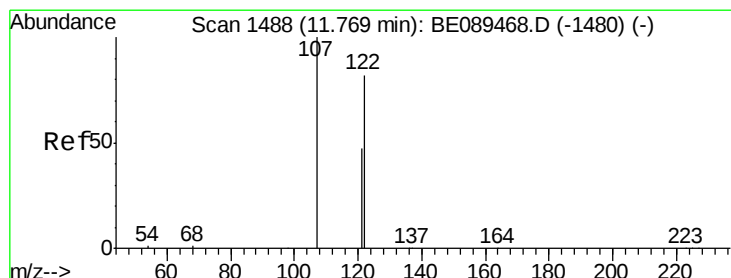
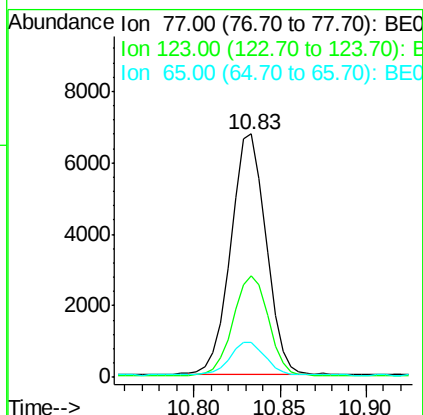
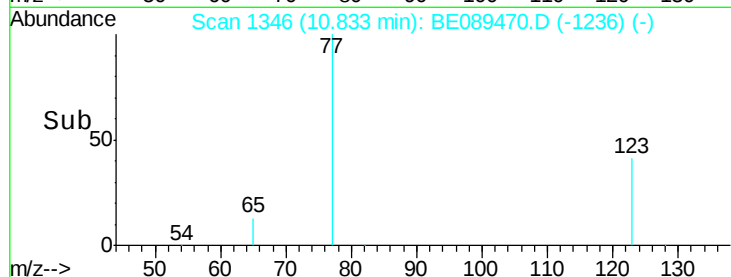
77 100

123 41.5 33.4 50.0

65 13.5 10.9 16.3

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#10

2,4-Dimethylphenol

Concen: 0.51 ng

RT: 11.77 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

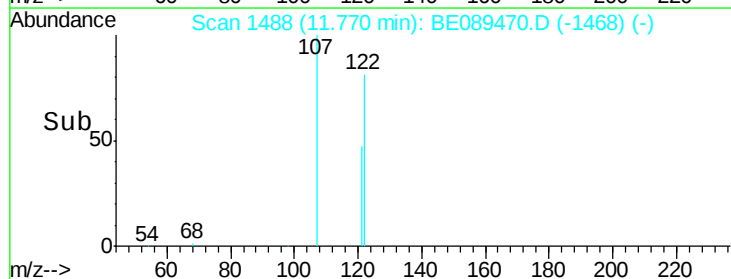
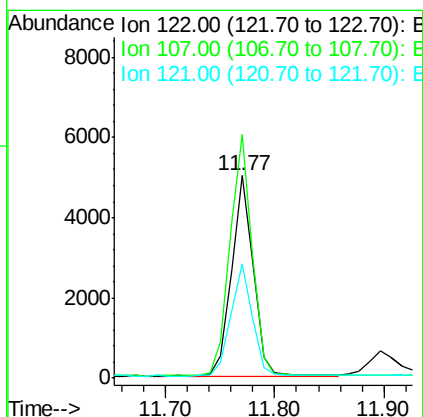
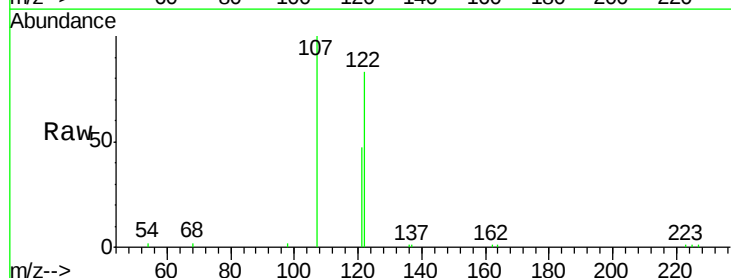
Tgt Ion: 122 Resp: 6944

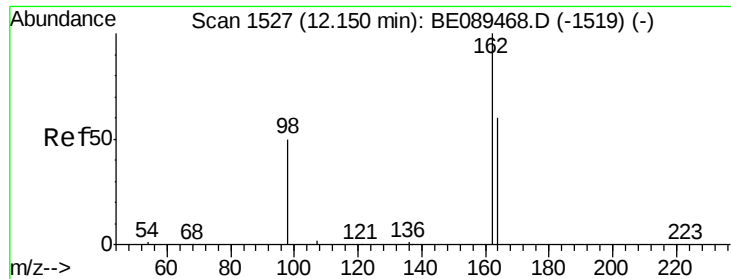
Ion Ratio Lower Upper

122 100

107 120.4 97.3 145.9

121 56.6 46.4 69.6





#11

2,4-Dichlorophenol

Concen: 0.50 ng

RT: 12.15 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

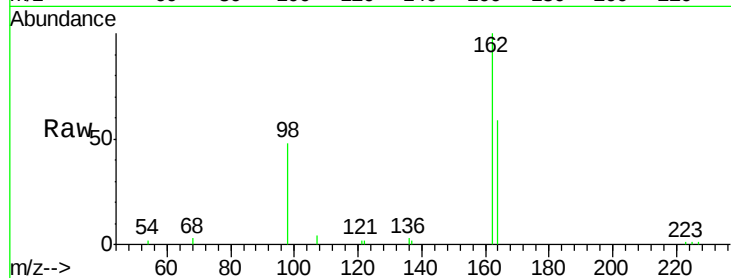
LabSampleId :

SSTDIC0.5

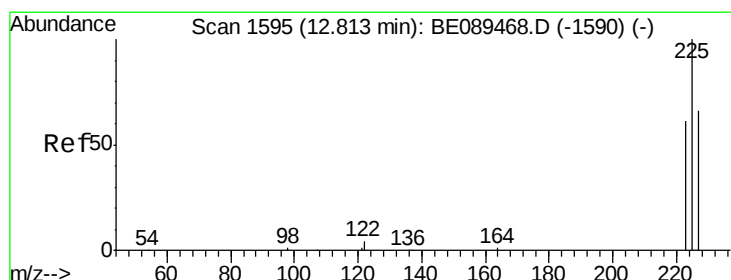
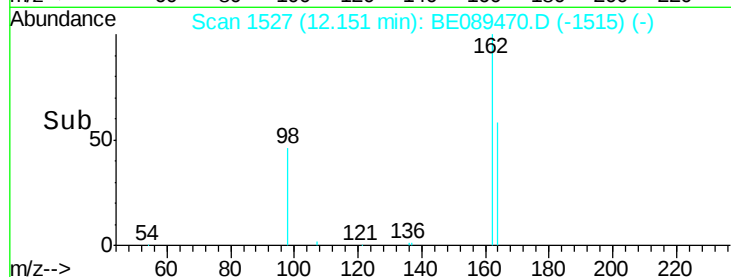
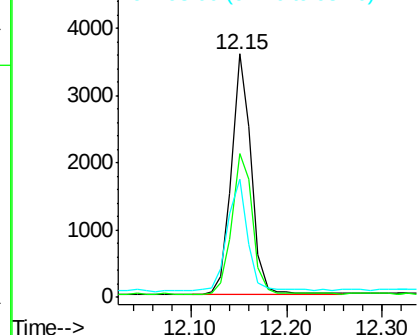
Tgt Ion:	162	Resp:	5103
Ion Ratio	Lower	Upper	
162	100		
164	59.0	39.9	79.9
98	48.4	31.3	71.3

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Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): E



#12

Hexachlorobutadiene

Concen: 0.48 ng

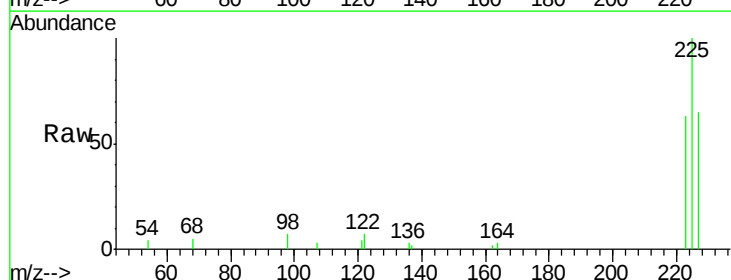
RT: 12.81 min Scan# 1595

Delta R.T. 0.00 min

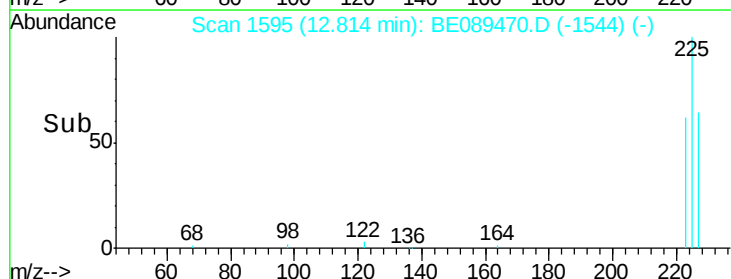
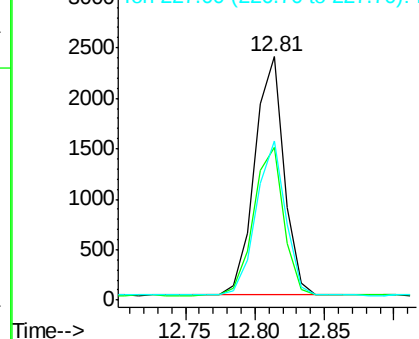
Lab File: BE089470.D

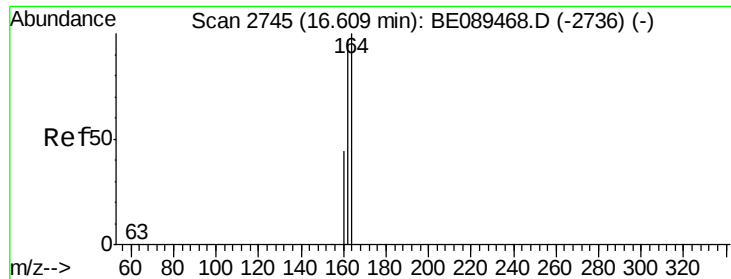
Acq: 3 Feb 2015 18:54

Tgt Ion:	225	Resp:	3499
Ion Ratio	Lower	Upper	
225	100		
223	64.1	49.4	74.0
227	64.5	51.2	76.8



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.61 min Scan# 2745

Delta R.T. 0.00 min

Lab File: BE089470.D

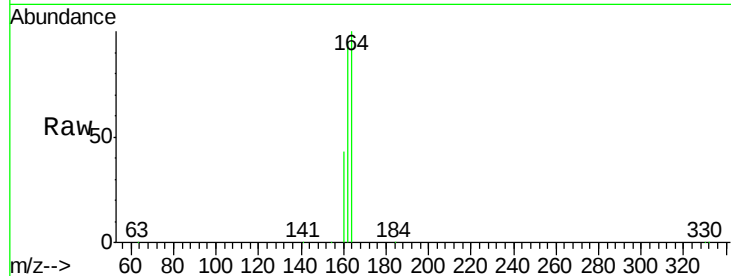
Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

LabSampleId :

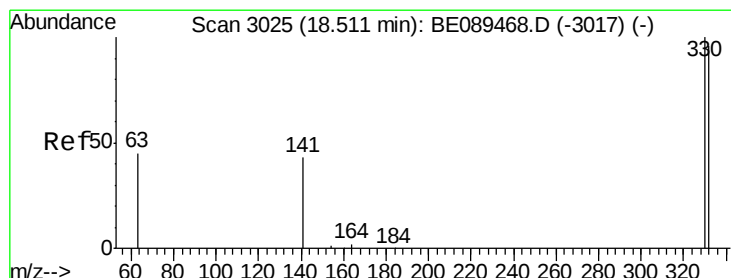
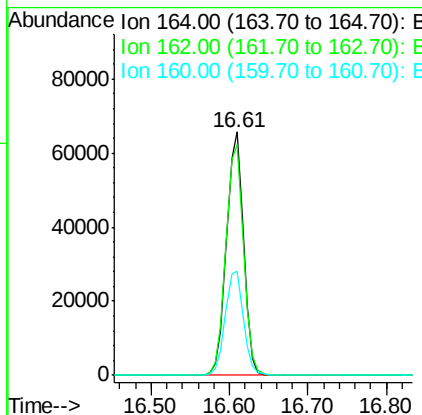
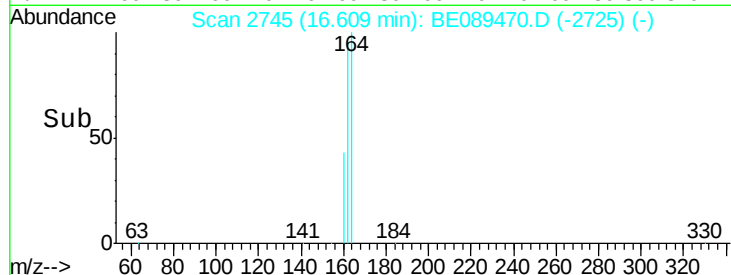
SSTDIC0.5



Tgt Ion:	164	Resp:	98569
Ion Ratio	Lower	Upper	
164	100		
162	94.5	77.6	116.4
160	42.6	35.6	53.4

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#14

2,4,6-Tribromophenol

Concen: 0.57 ng

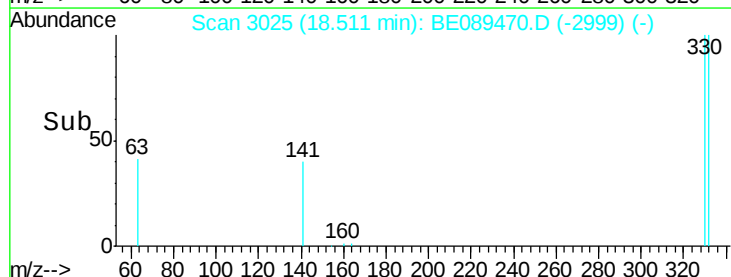
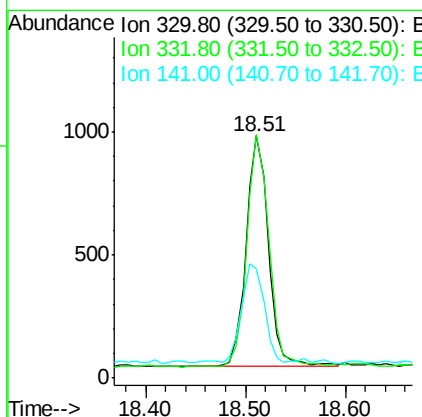
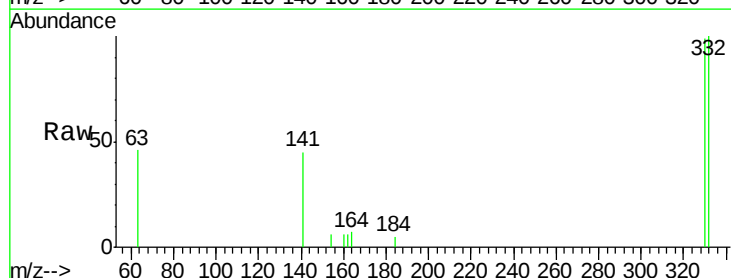
RT: 18.51 min Scan# 3025

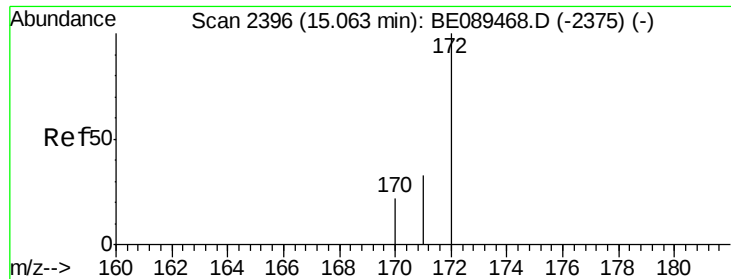
Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion:	330	Resp:	1457
Ion Ratio	Lower	Upper	
330	100		
332	101.4	78.0	117.0
141	42.1	33.8	50.6





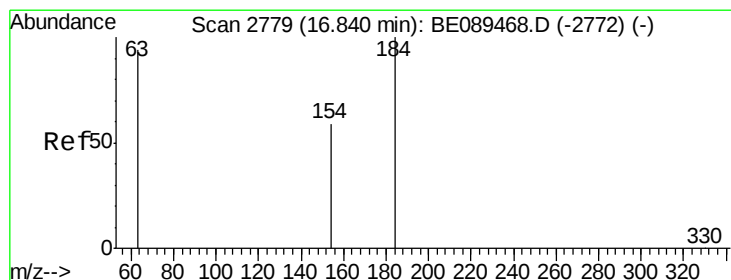
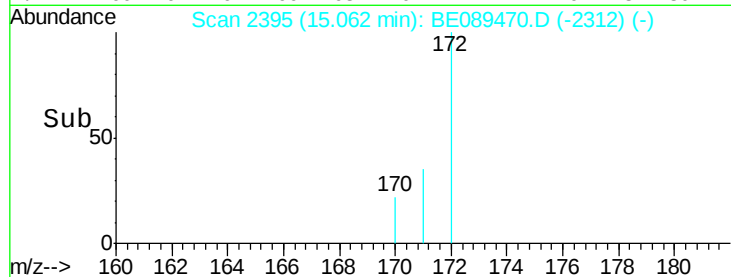
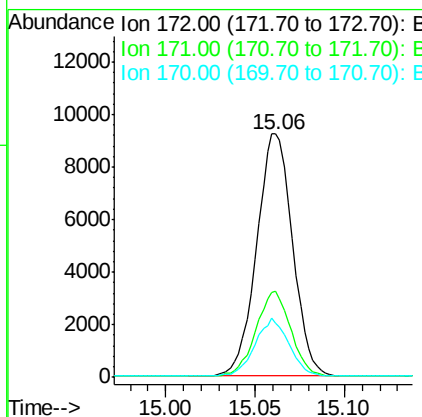
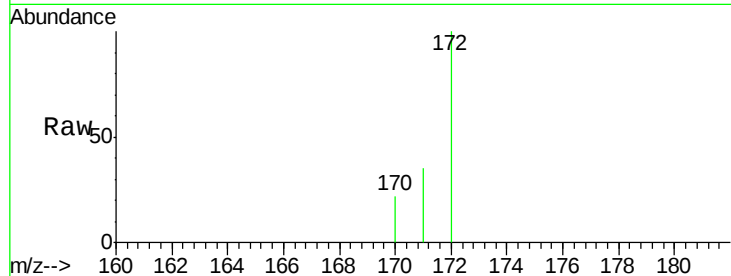
#15
2-Fluorobiphenyl
Concen: 0.47 ng
RT: 15.06 min Scan# 2395
Delta R.T. -0.00 min
Lab File: BE089470.D
Acq: 3 Feb 2015 18:54

Instrument :
BNA_E
LabSampleId :
SSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	26.8	40.2
170	22.5	17.7	26.5

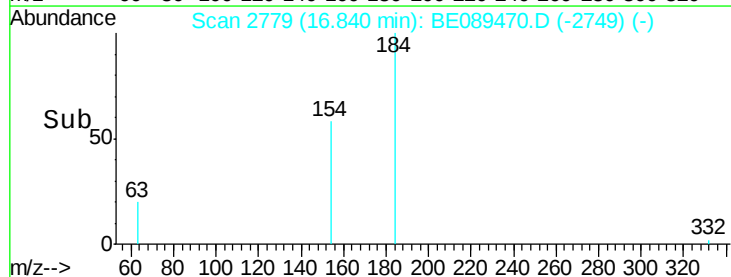
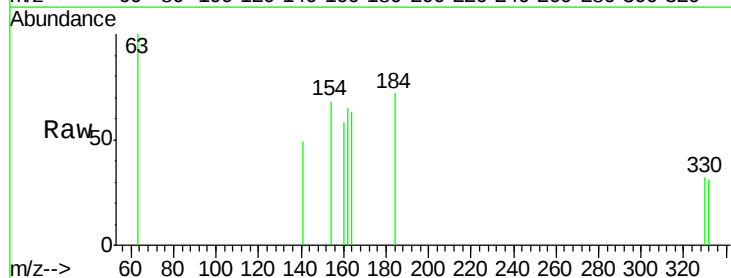
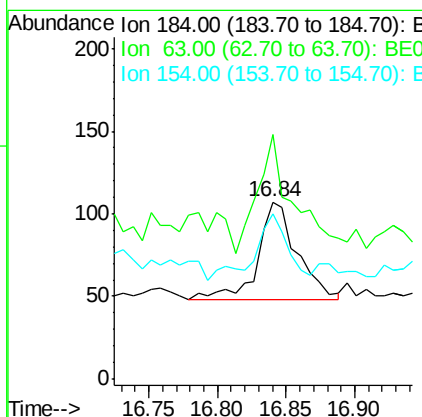
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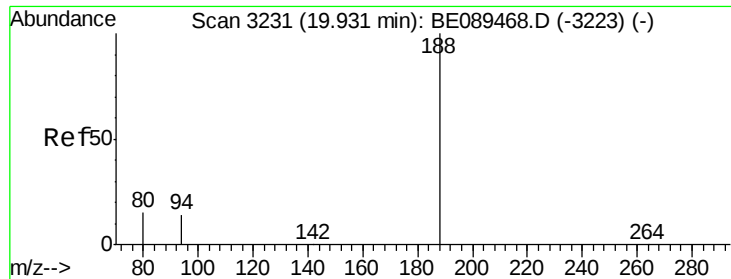
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#16
2,4-Dinitrophenol
Concen: 0.20 ng
RT: 16.84 min Scan# 2779
Delta R.T. 0.00 min
Lab File: BE089470.D
Acq: 3 Feb 2015 18:54

Tgt Ion	Ratio	Lower	Upper
184	100		
63	138.3	92.1	138.1#
154	93.5	61.4	92.2#





#17

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.93 min Scan# 3231

Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

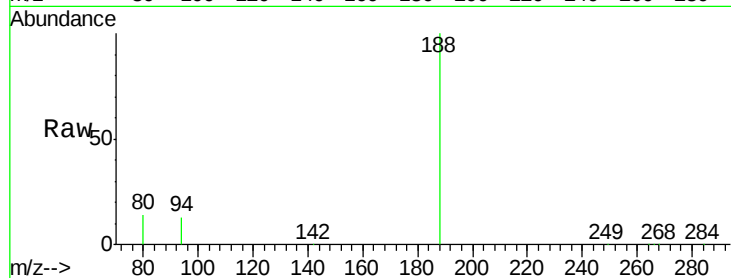
LabSampleId :

SSTDIC0.5

Tgt Ion:	188	Resp:	189949
Ion Ratio	Lower	Upper	
188	100		
94	13.4	11.1	16.7
80	13.7	11.8	17.6

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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

19.93

200000

150000

100000

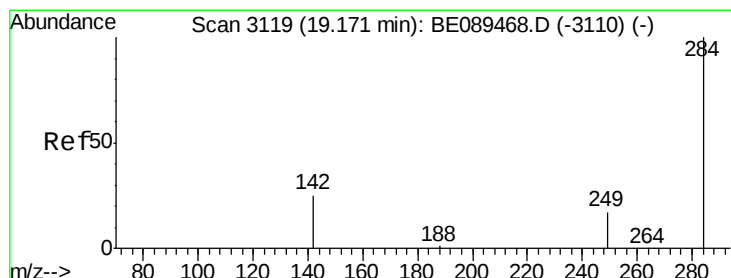
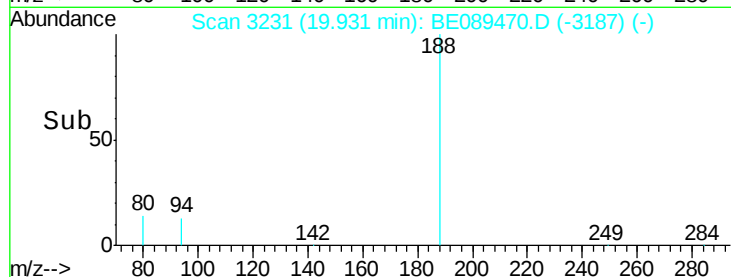
50000

0

19.90

20.00

Time-->



#18

Hexachlorobenzene

Concen: 0.49 ng

RT: 19.16 min Scan# 3118

Delta R.T. -0.01 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion:	284	Resp:	4934
Ion Ratio	Lower	Upper	
284	100		
142	41.8	24.4	36.6#
249	29.6	18.2	27.2#

Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

19.16

5000

4000

3000

2000

1000

0

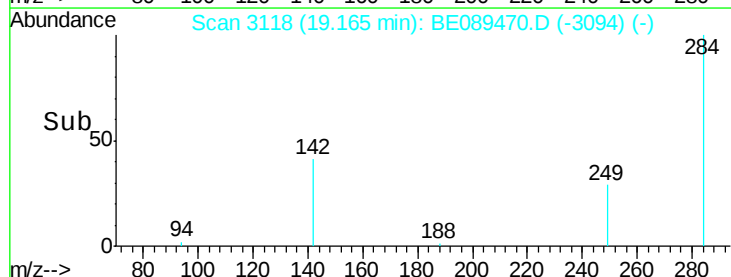
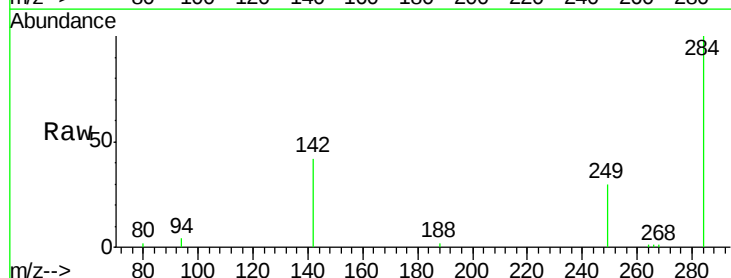
19.10

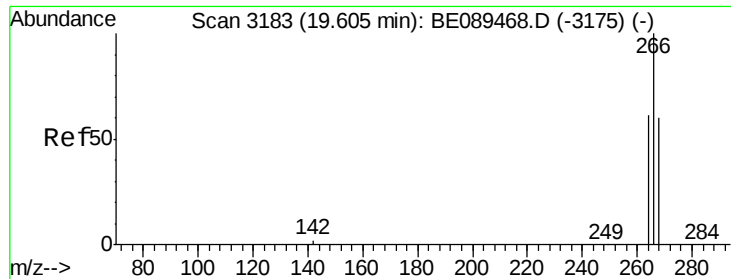
19.15

19.20

19.25

Time-->





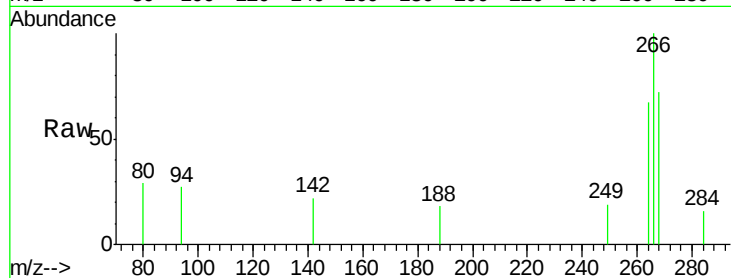
#19
 Pentachlorophenol
 Concen: 0.31 ng
 RT: 19.61 min Scan# 3183
 Delta R.T. 0.00 min
 Lab File: BE089470.D
 Acq: 3 Feb 2015 18:54

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

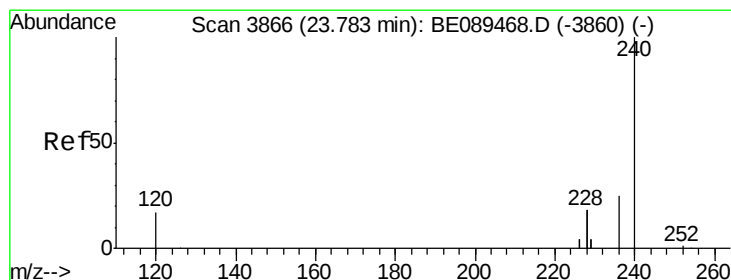
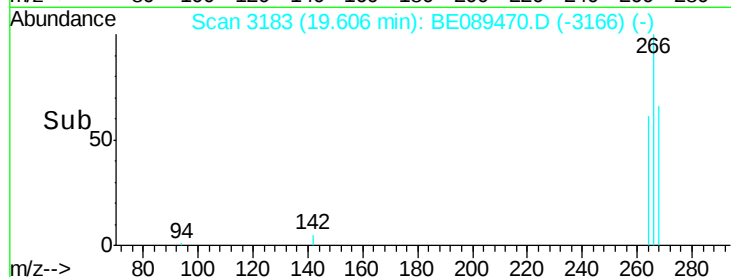
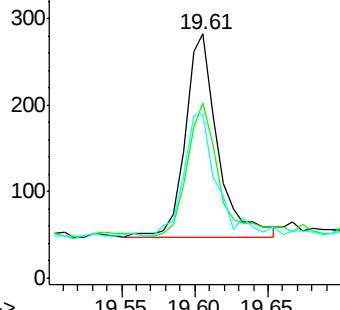
Tgt Ion	Ratio	Lower	Upper
266	100		
268	72.0	50.0	75.0
264	67.0	50.6	75.8

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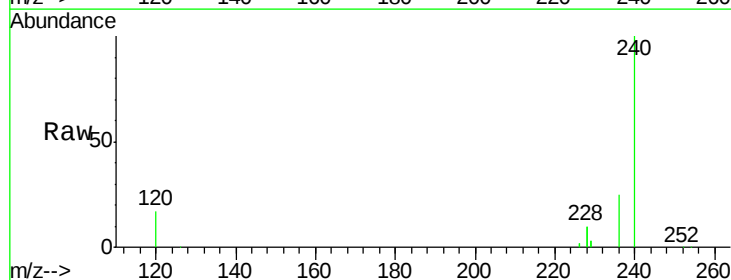


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

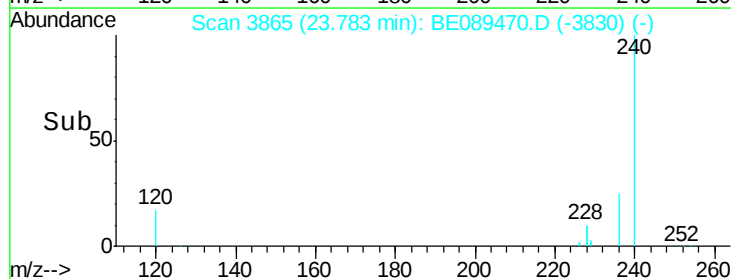
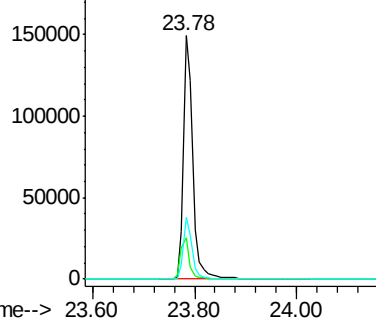


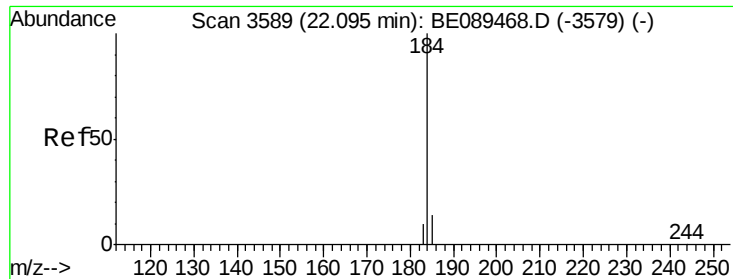
#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.78 min Scan# 3865
 Delta R.T. 0.00 min
 Lab File: BE089470.D
 Acq: 3 Feb 2015 18:54

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.7	13.8	20.6
236	25.4	20.2	30.2



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#21

Benzidine

Concen: 0.25 ng

RT: 22.09 min Scan# 3588

Delta R.T. -0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

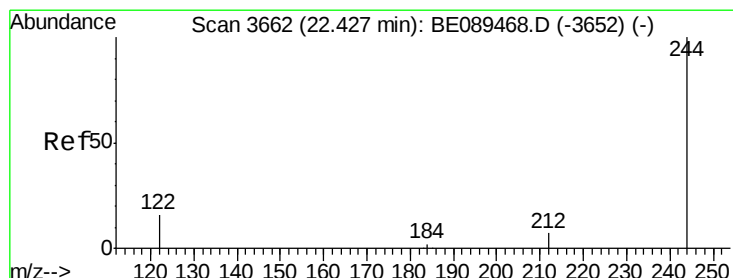
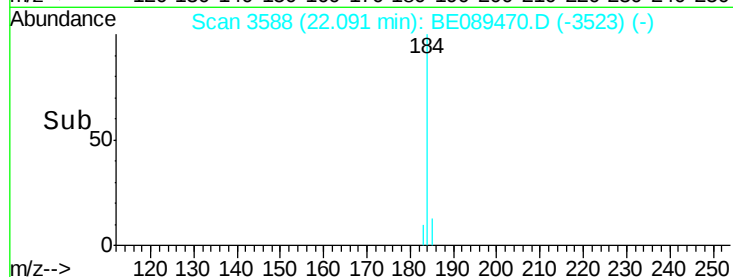
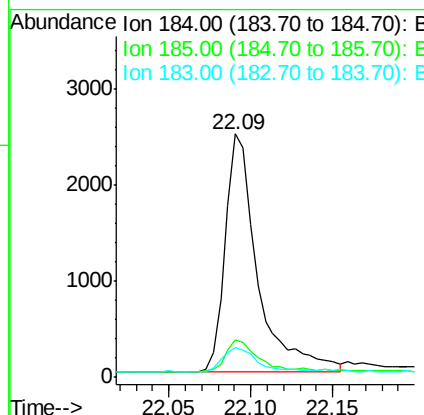
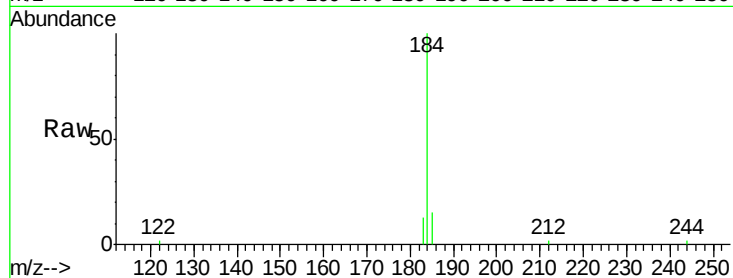
LabSampleId :

SSTDIC0.5

Tgt Ion:	184	Resp:	3384
Ion Ratio	Lower	Upper	
184	100		
185	15.2	12.0	18.0
183	12.5	9.0	13.4

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#22

Terphenyl-d14

Concen: 0.60 ng

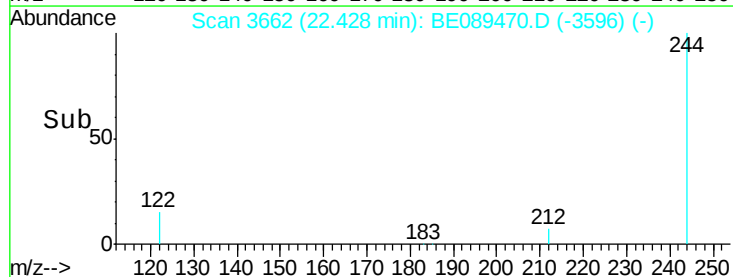
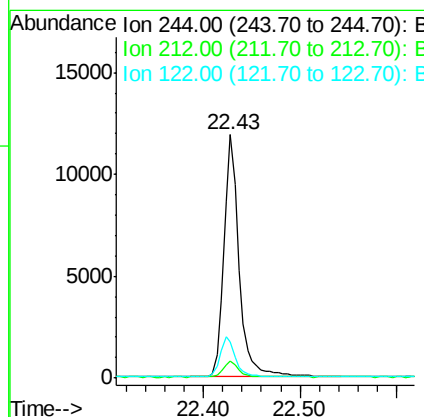
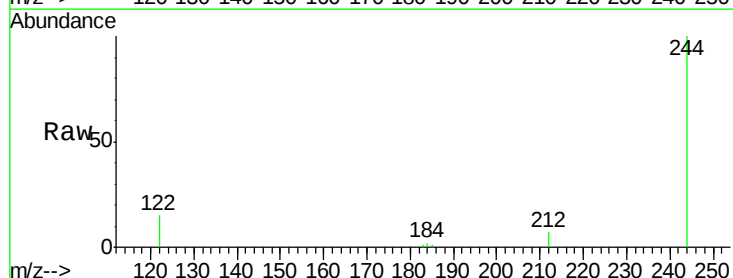
RT: 22.43 min Scan# 3662

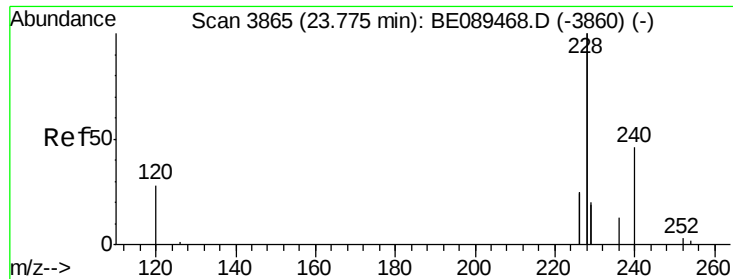
Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion:	244	Resp:	13055
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.5	8.3
122	15.0	12.6	19.0





#23

Benzo(a)anthracene

Concen: 0.54 ng

RT: 23.77 min Scan# 3864

Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

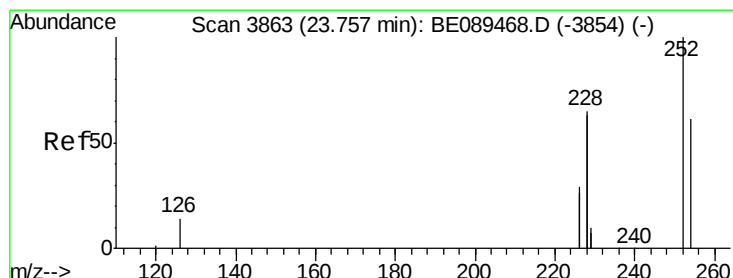
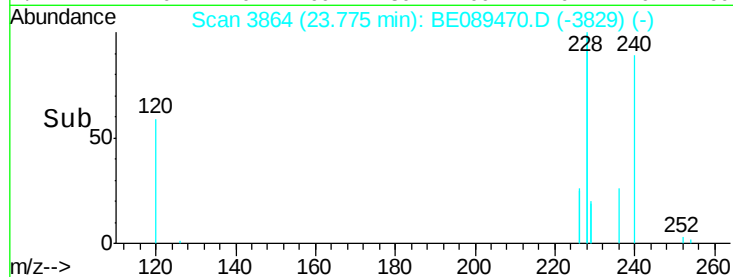
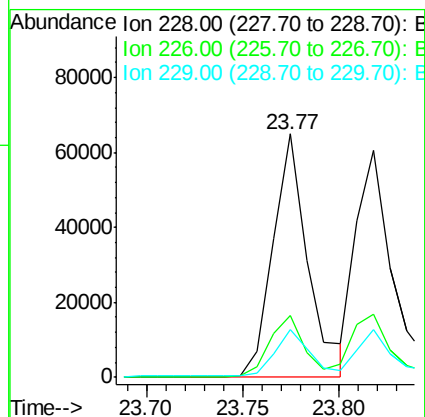
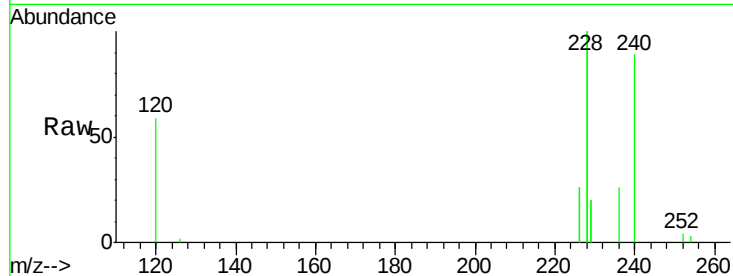
LabSampleId :

SSTDICC0.5

Tgt Ion:	228	Resp:	81685
Ion Ratio	Lower	Upper	
228	100		
226	25.6	19.6	29.4
229	19.7	15.9	23.9

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#24

3,3'-Dichlorobenzidine

Concen: 0.44 ng

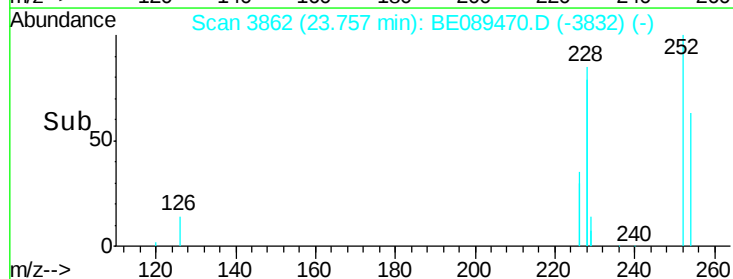
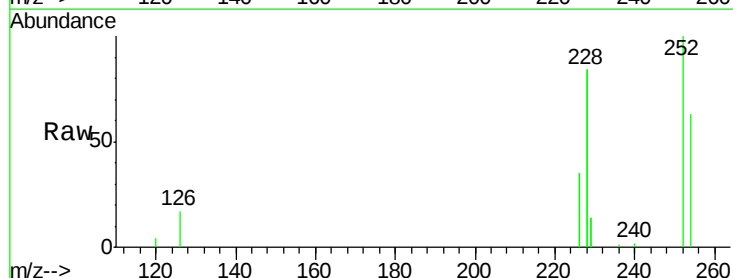
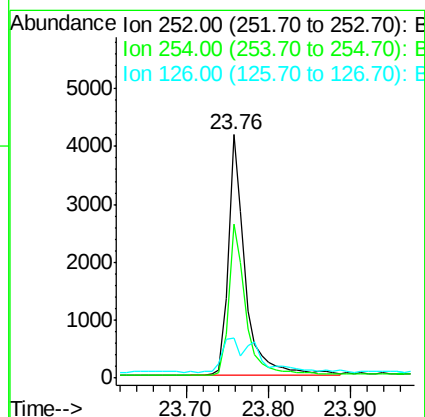
RT: 23.76 min Scan# 3862

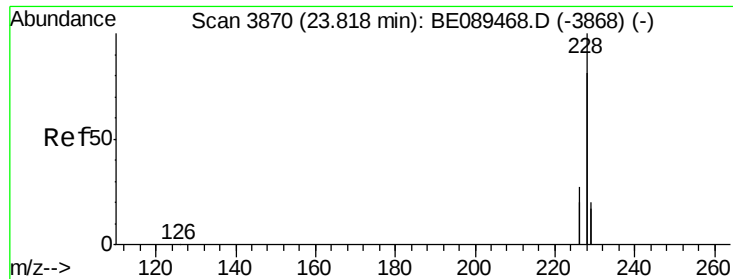
Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion:	252	Resp:	5837
Ion Ratio	Lower	Upper	
252	100		
254	63.1	48.6	73.0
126	16.6	12.4	18.6





#25

Chrysene

Concen: 0.48 ng

RT: 23.82 min Scan# 3869

Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

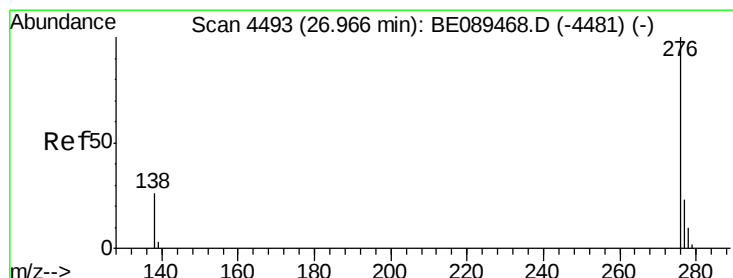
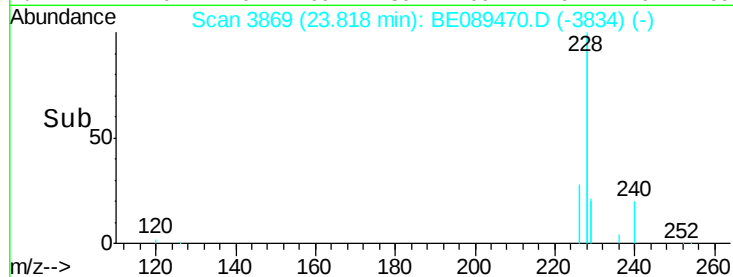
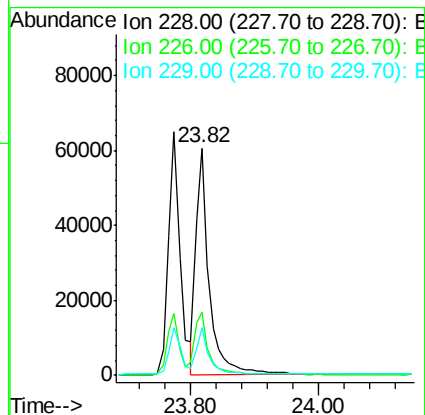
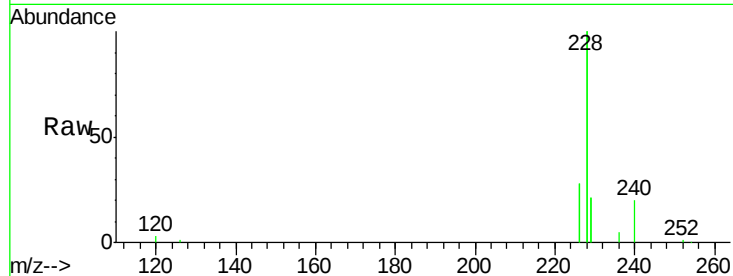
LabSampleId :

SSTDICC0.5

Tgt Ion:	228	Resp:	86438
Ion Ratio	Lower	Upper	
228	100		
226	27.7	21.8	32.8
229	20.8	16.2	24.2

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#26

Indeno(1,2,3-cd)pyrene

Concen: 0.31 ng

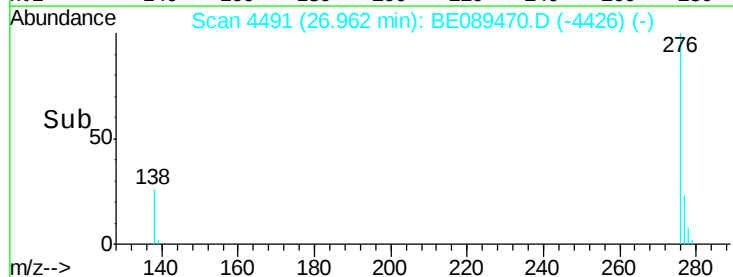
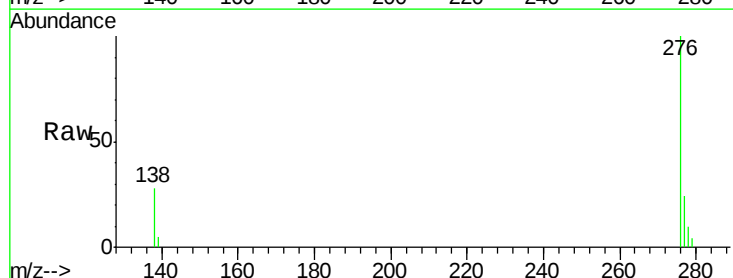
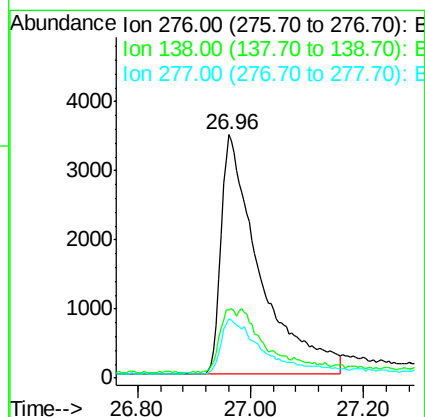
RT: 26.96 min Scan# 4491

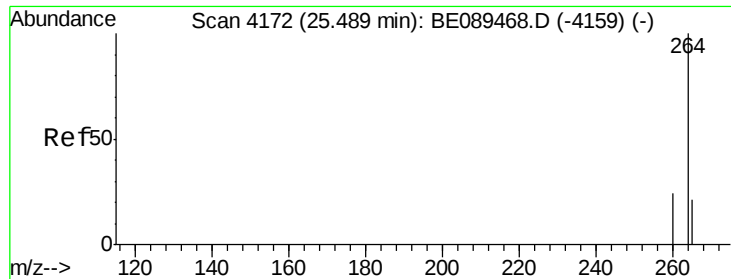
Delta R.T. -0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion:	276	Resp:	16510
Ion Ratio	Lower	Upper	
276	100		
138	11.4	24.2	36.4#
277	23.9	19.9	29.9





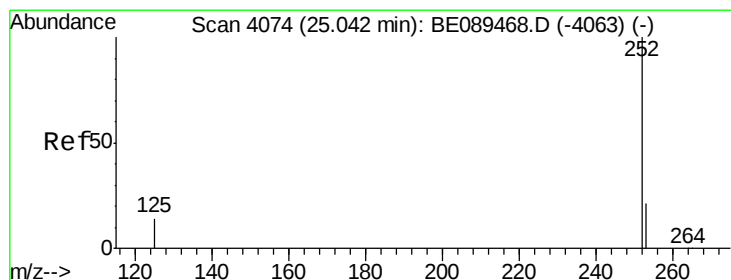
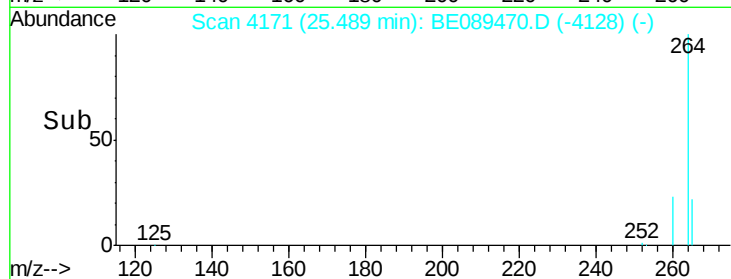
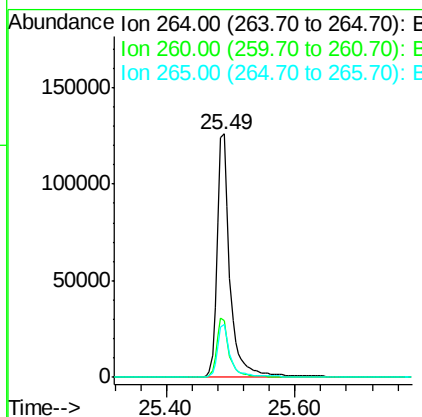
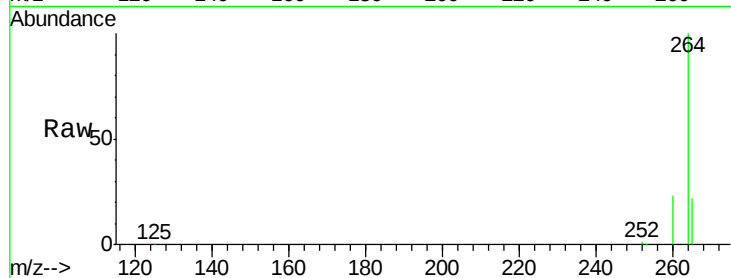
#27
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.49 min Scan# 4171
 Delta R.T. 0.00 min
 Lab File: BE089470.D
 Acq: 3 Feb 2015 18:54

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	175236		
260	23.4	19.1	28.7	
265	22.0	17.0	25.6	

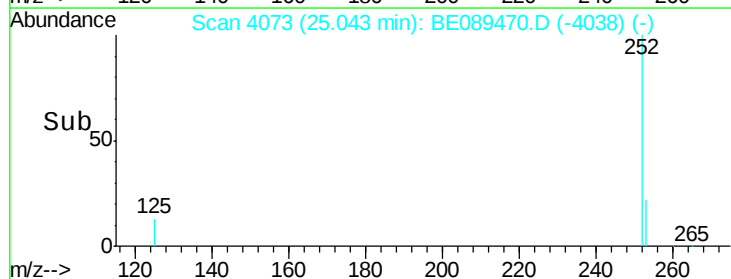
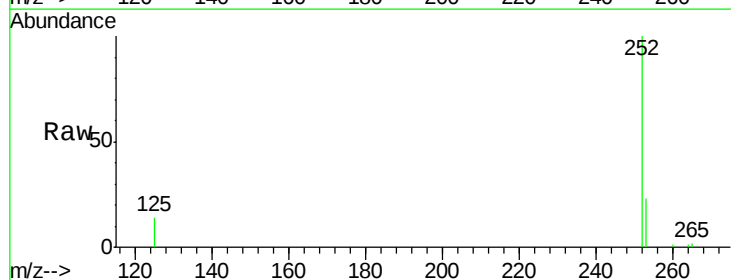
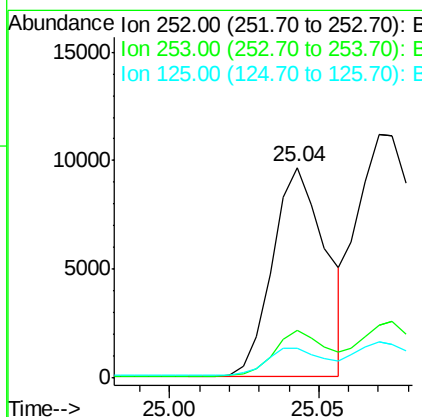
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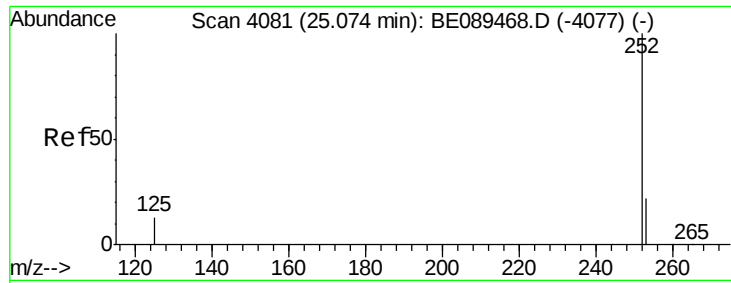
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#28
 Benzo(b)fluoranthene
 Concen: 0.50 ng
 RT: 25.04 min Scan# 4073
 Delta R.T. 0.00 min
 Lab File: BE089470.D
 Acq: 3 Feb 2015 18:54

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	11960		
253	22.9	17.4	26.2	
125	14.0	11.3	16.9	





#29

Benzo(k)fluoranthene

Concen: 0.54 ng

RT: 25.07 min Scan# 4079

Delta R.T. -0.00 min

Lab File: BE089470.D

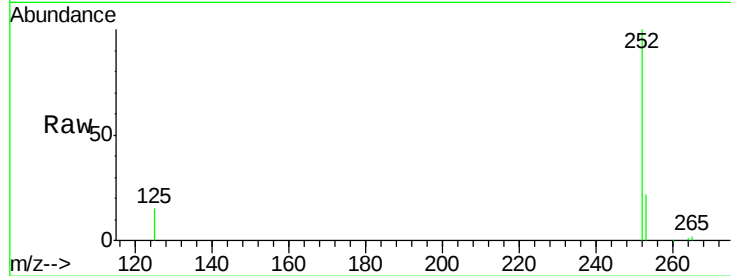
Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

LabSampleId :

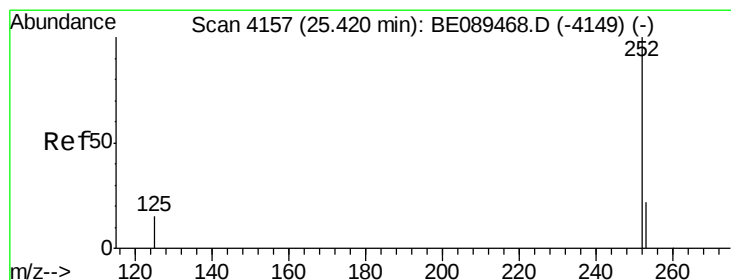
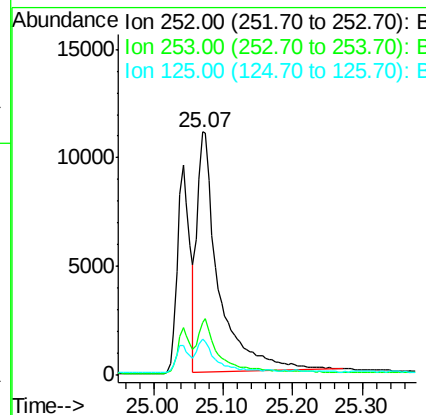
SSTDIC0.5



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.9	26.9
125	15.1	10.6	15.8

Manual Integrations
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#30

Benzo(a)pyrene

Concen: 0.47 ng

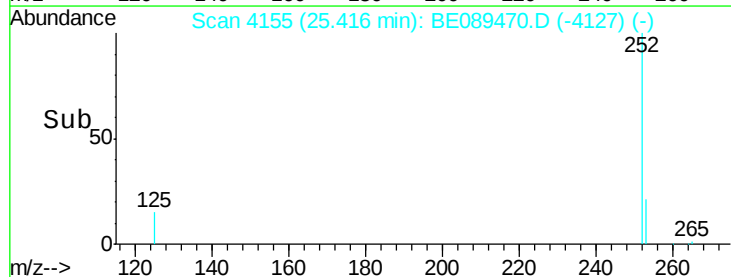
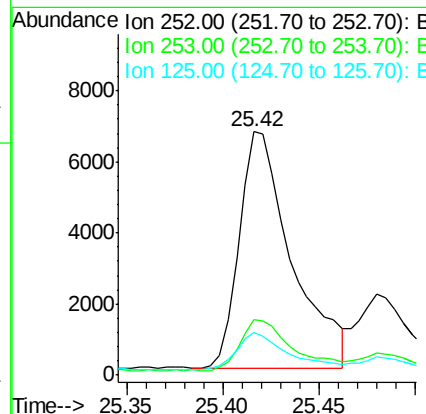
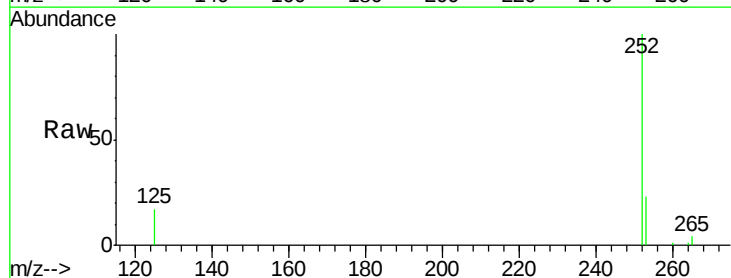
RT: 25.42 min Scan# 4155

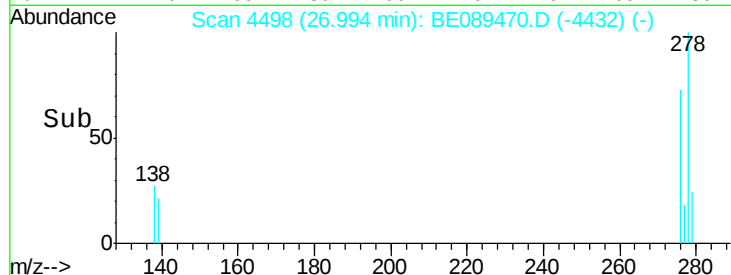
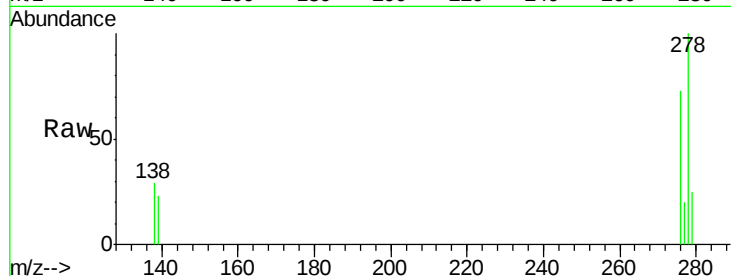
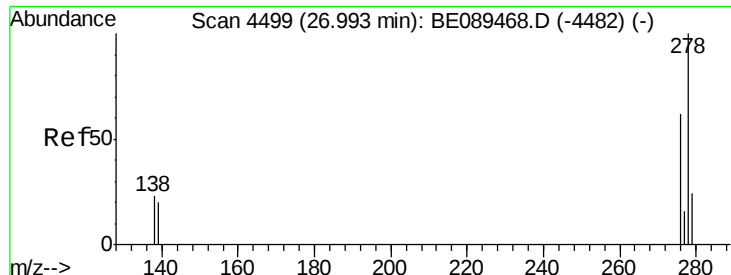
Delta R.T. -0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	17.4	12.2	18.4





#31

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 26.99 min Scan# 4498

Delta R.T. 0.00 min

Lab File: BE089470.D

Acq: 3 Feb 2015 18:54

Instrument :

BNA_E

LabSampleId :

SSTDICC0.5

Tgt	Ion	278	Resp:	12647
	Ratio	100	Lower	Upper
	278	100		
	139	23.2	16.8	25.2
	279	25.4	19.4	29.0

Manual Integrations
APPROVED

apatel
2/4/2015 2:55:05 PM

