

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
 Data File : BE088324.D
 Acq On : 27 Oct 2014 21:24
 Operator : TP/JJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

mohammad
 10/29/2014 11:11:30 AM

Quant Time: Oct 28 10:10:47 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102714.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 01:17:45 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	60332	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	229997	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	104102	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	203756	5.00	ng	0.00
16) Chrysene-d12	18.35	240	106871	5.00	ng	0.00
22) Perylene-d12	21.41	264	104876	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	181569	12.72	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	271279	9.41	ng	0.00
18) Terphenyl-d14	16.11	244	199764	11.32	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.39	88	86102	10.26	ng	99
5) Naphthalene	8.70	128	436437	9.33	ng	99
6) 2-Methylnaphthalene	9.55	142	271171	9.54	ng	97
9) Acenaphthylene	10.64	152	1485205	9.56	ng	99
10) Acenaphthene	10.86	154	218370	8.91	ng	95
11) Fluorene	11.52	166	230640	9.14	ng	98
13) Phenanthrene	12.97	178	1671423	8.60	ng	98
14) Anthracene	13.06	178	1377453	9.54	ng	100
15) Fluoranthene	15.22	202	308902	10.30	ng	99
17) Pyrene	15.67	202	321279	10.94	ng	99
19) Benzo(a)anthracene	18.33	228	1015368	12.00	ng	100
20) Chrysene	18.41	228	959341	10.16	ng	99
21) Indeno(1,2,3-cd)pyrene	23.60	276	1099249m	15.38	ng	
23) Benzo(b)fluoranthene	20.65	252	237757	13.40	ng	98
24) Benzo(k)fluoranthene	20.71	252	246294	9.23	ng	99
25) Benzo(a)pyrene	21.30	252	229234	13.40	ng	98
26) Dibenzo(a,h)anthracene	23.70	278	222732	13.85	ng	97
27) Benzo(g,h,i)perylene	24.24	276	963949	11.44	ng	98

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

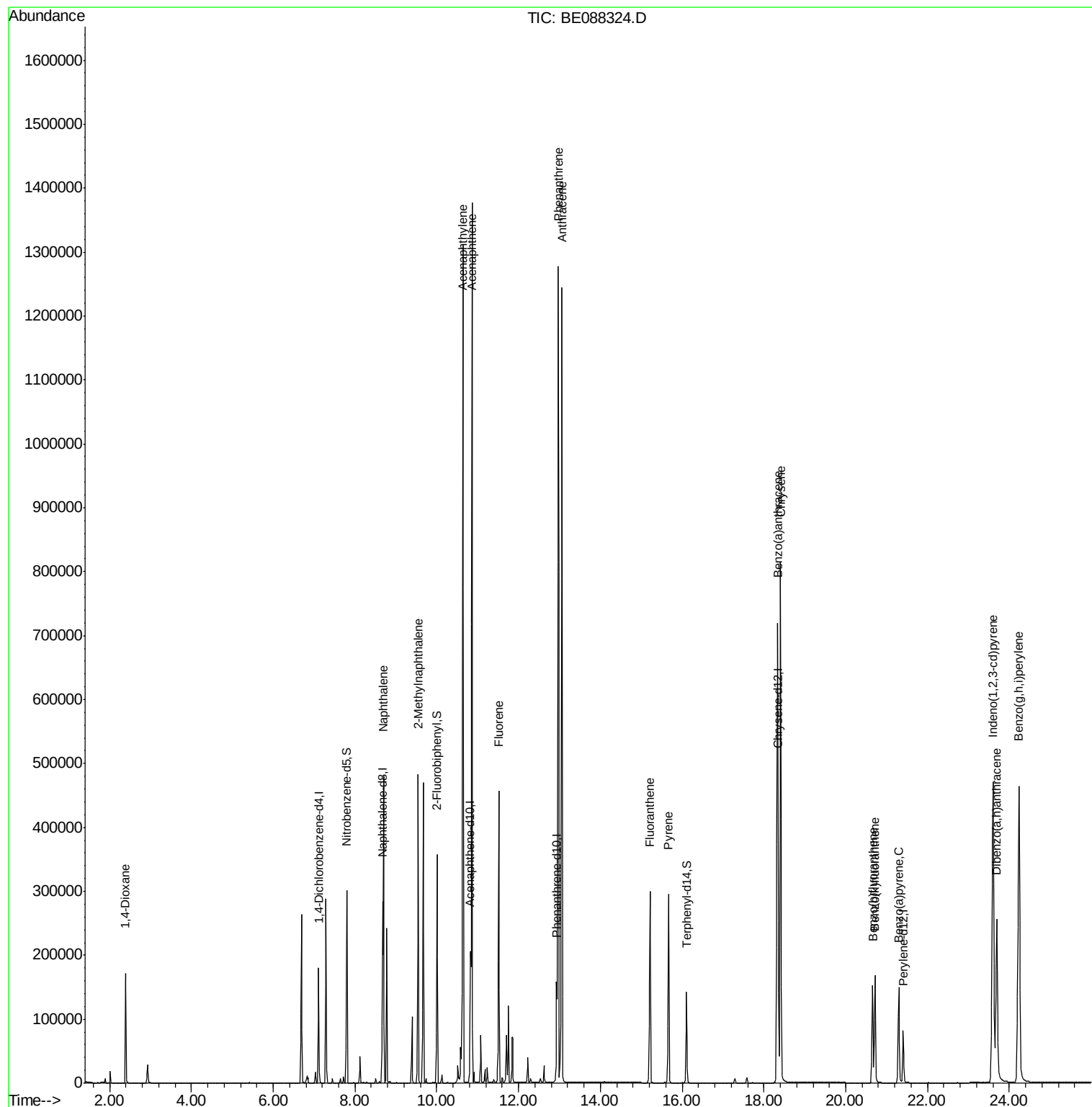
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
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Sample : SSTDICC010
Misc :
ALS Vial : 10 Sample Multiplier: 1

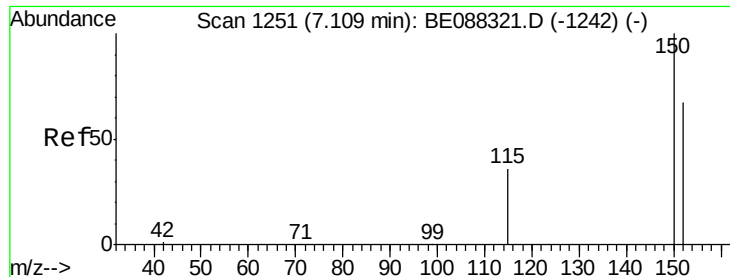
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BE088324.D

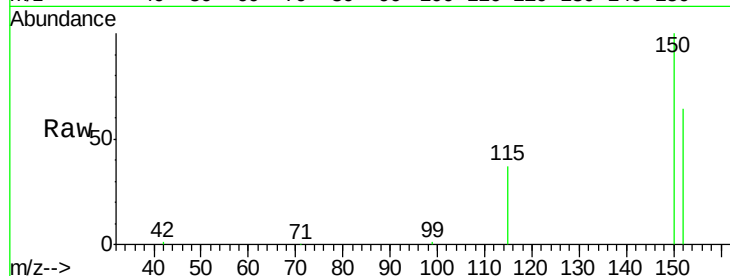
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

SSTDICC010



Tgt Ion: 152 Resp: 60332

Ion Ratio Lower Upper

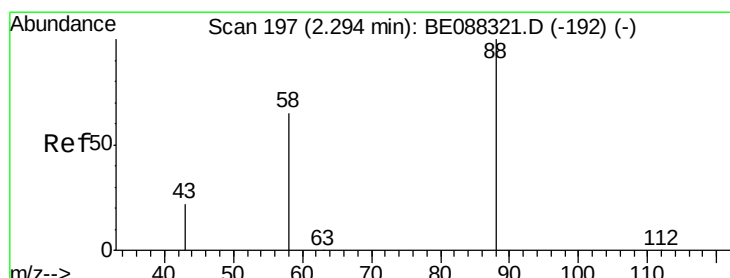
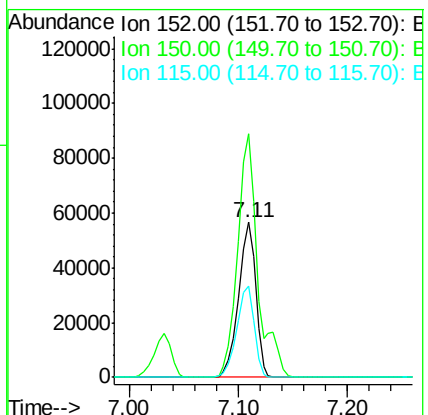
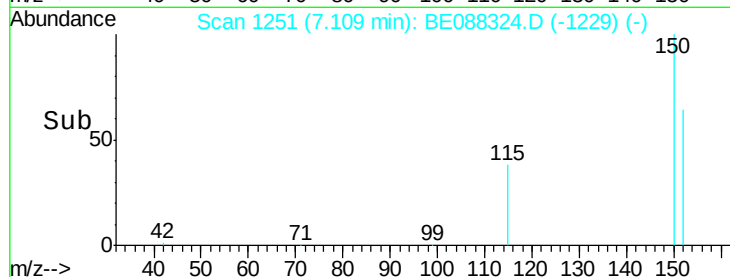
152 100

150 157.1 119.3 178.9

115 58.7 42.6 64.0

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#2

1,4-Dioxane

Concen: 10.26 ng

RT: 2.39 min Scan# 218

Delta R.T. 0.09 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

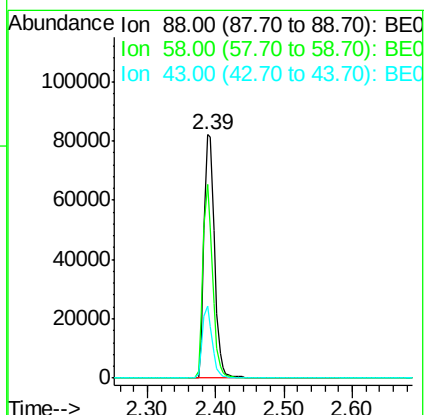
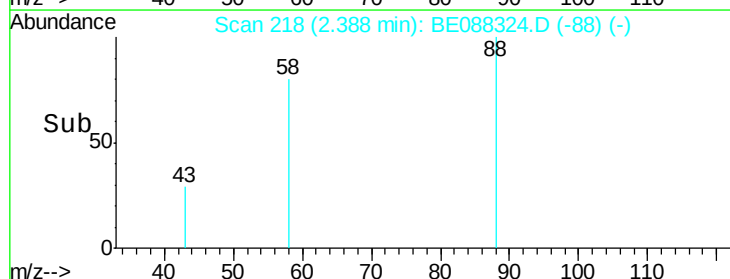
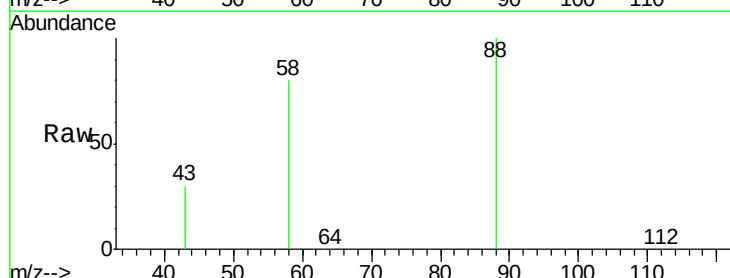
Tgt Ion: 88 Resp: 86102

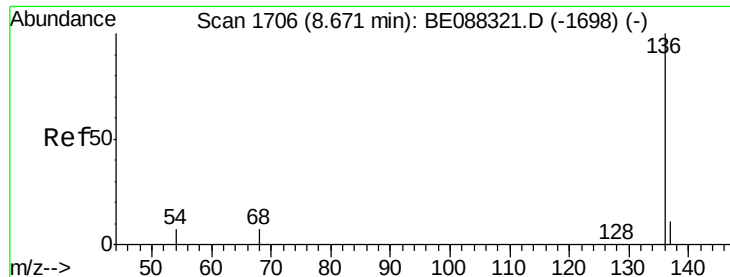
Ion Ratio Lower Upper

88 100

58 74.5 59.4 89.0

43 27.8 21.4 32.2





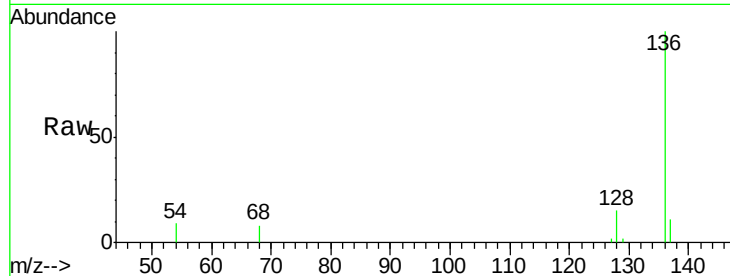
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.67 min Scan# 1706
Delta R.T. -0.00 min
Lab File: BE088324.D
Acq: 27 Oct 2014 21:24

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

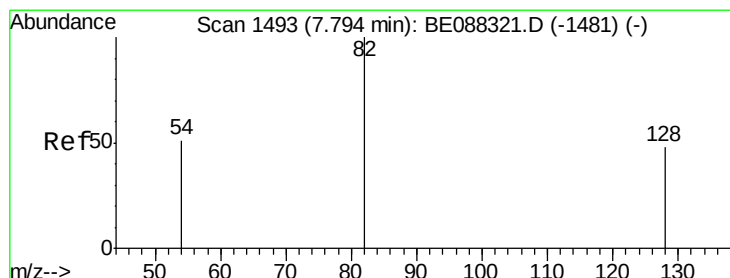
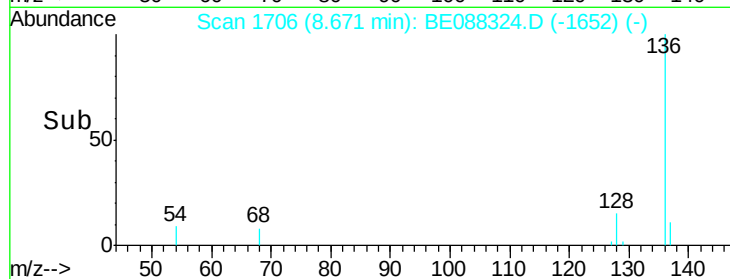
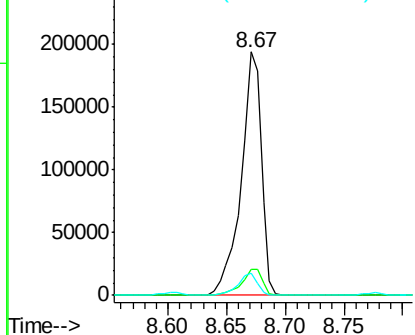
Tgt Ion	Ratio	Resp	Lower	Upper
136	100	229997		
137	10.8	8.8	13.2	
54	9.3	5.5	8.3#	

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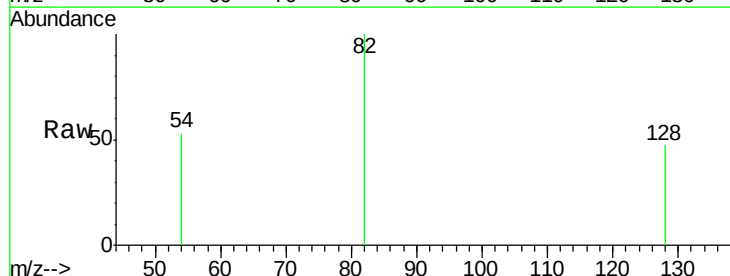


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

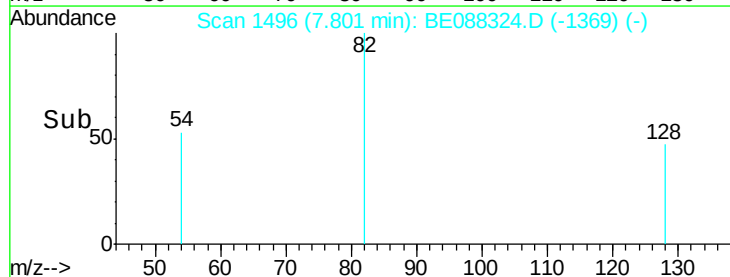
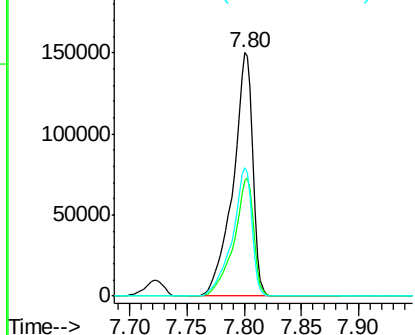


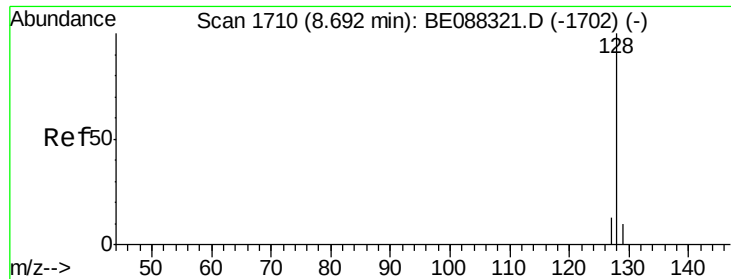
#4
Nitrobenzene-d5
Concen: 12.72 ng
RT: 7.80 min Scan# 1496
Delta R.T. 0.01 min
Lab File: BE088324.D
Acq: 27 Oct 2014 21:24

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	181569		
128	47.3	38.7	58.1	
54	53.0	41.0	61.4	



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





#5

Naphthalene

Concen: 9.33 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.01 min

Lab File: BE088324.D

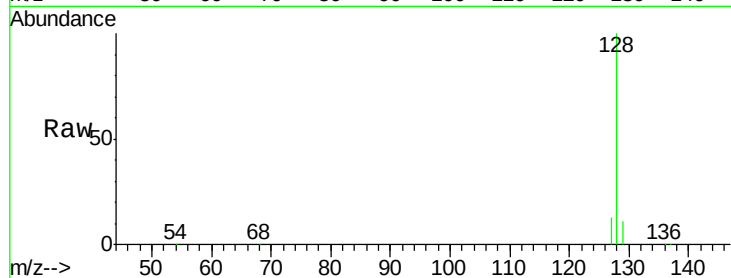
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

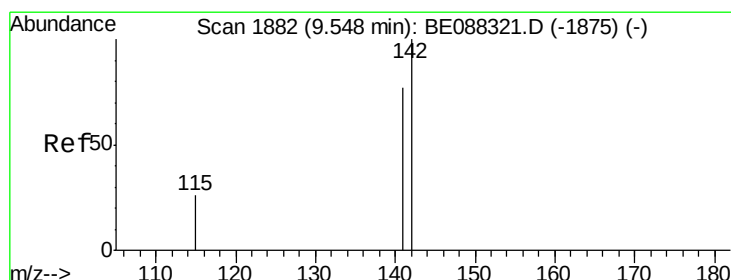
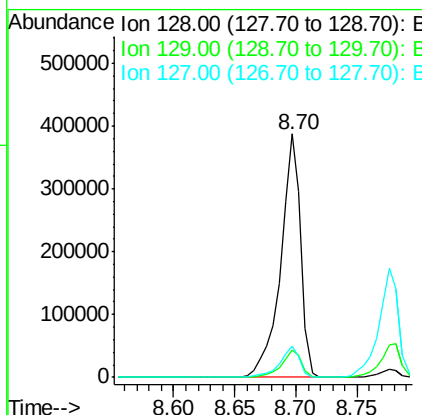
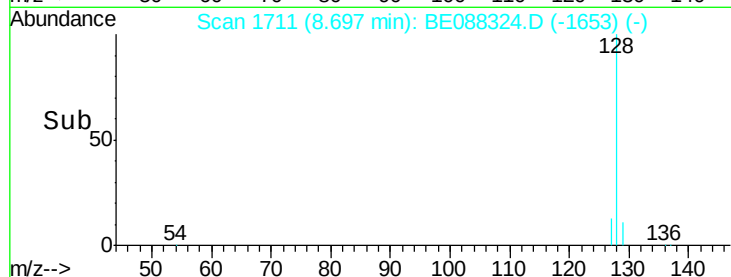
SSTDICC010



Tgt Ion:	128	Resp:	436437
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.5	12.7
127	12.7	10.2	15.2

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#6

2-Methylnaphthalene

Concen: 9.54 ng

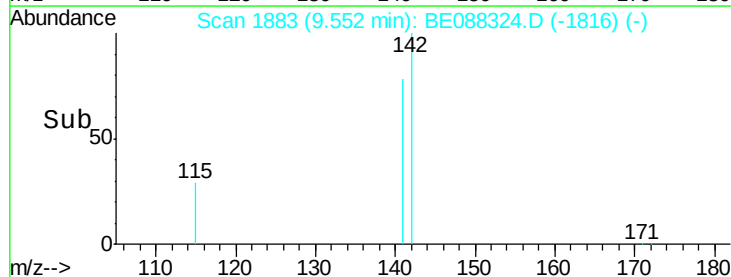
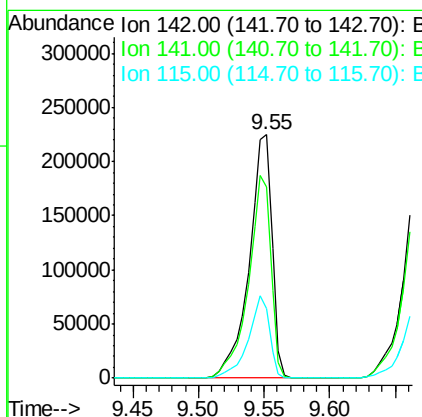
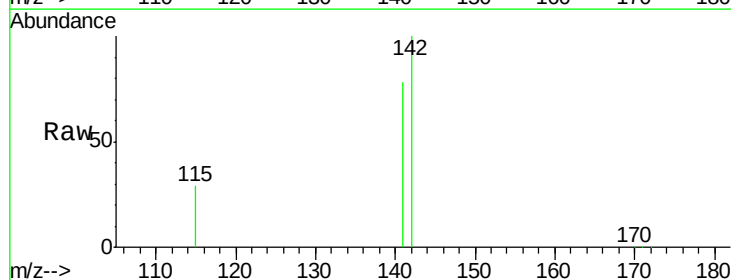
RT: 9.55 min Scan# 1883

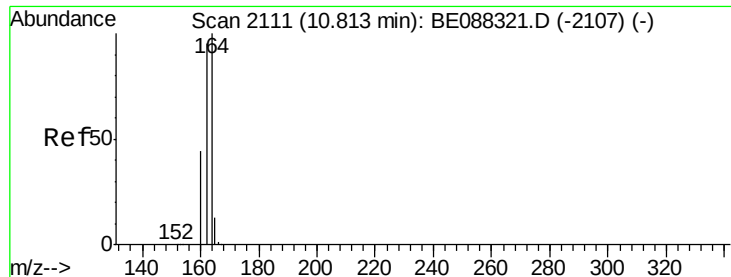
Delta R.T. 0.00 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

Tgt Ion:	142	Resp:	271171
Ion Ratio	Lower	Upper	
142	100		
141	78.4	61.4	92.0
115	28.8	21.0	31.6





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088324.D

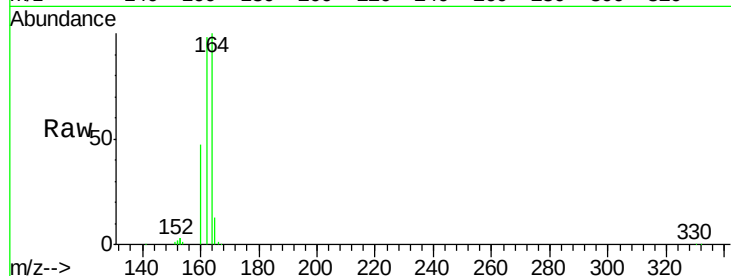
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

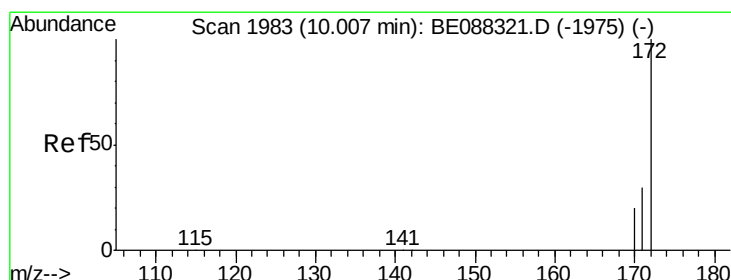
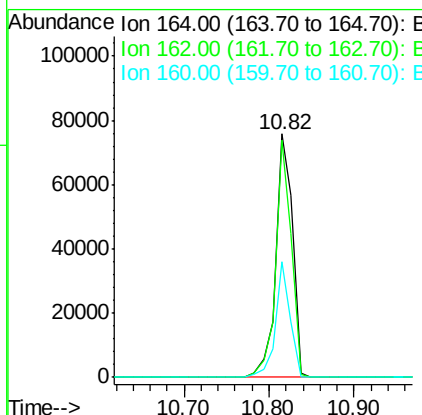
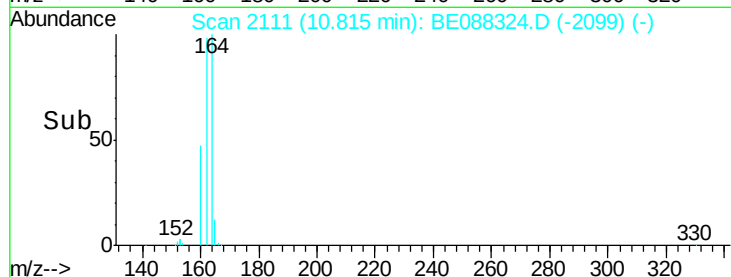
SSTDICC010



Tgt Ion:	164	Resp:	104102
Ion Ratio	Lower	Upper	
164	100		
162	97.6	75.7	113.5
160	47.5	35.6	53.4

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#8

2-Fluorobiphenyl

Concen: 9.41 ng

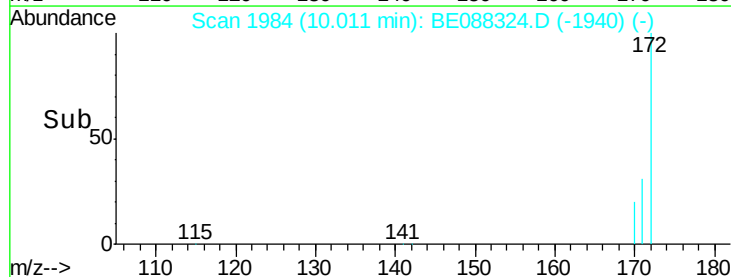
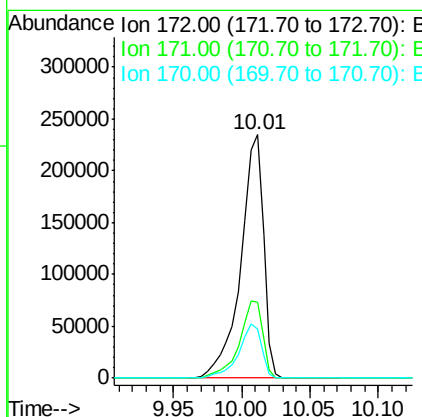
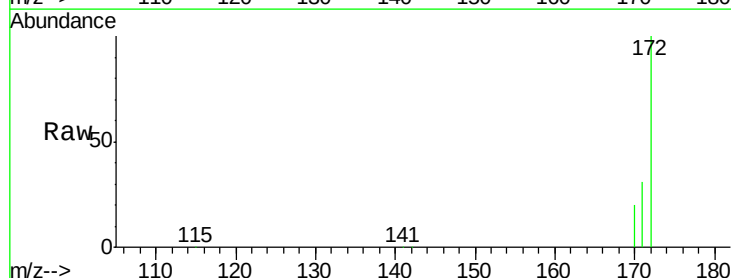
RT: 10.01 min Scan# 1984

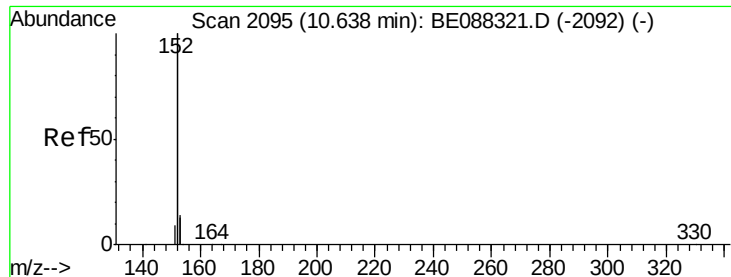
Delta R.T. 0.00 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

Tgt Ion:	172	Resp:	271279
Ion Ratio	Lower	Upper	
172	100		
171	31.2	24.5	36.7
170	20.3	15.8	23.6





#9

Acenaphthylene

Concen: 9.56 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088324.D

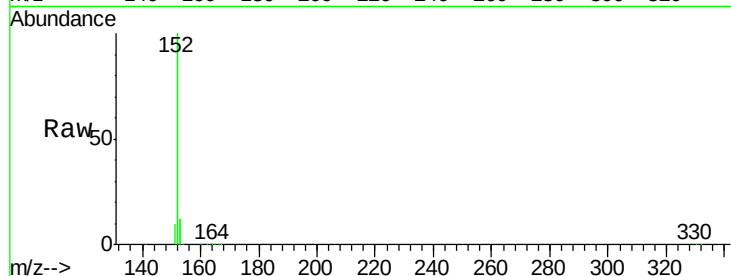
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

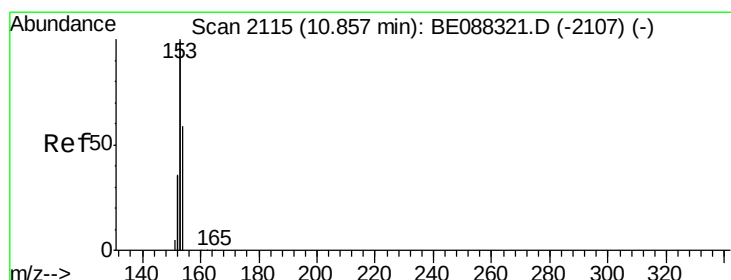
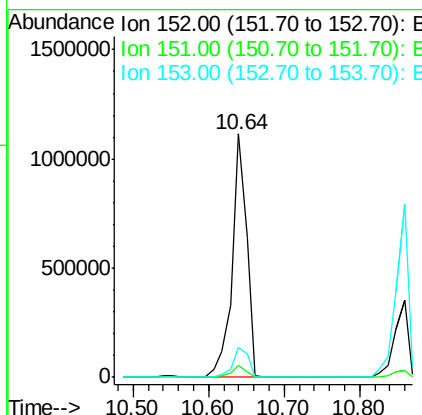
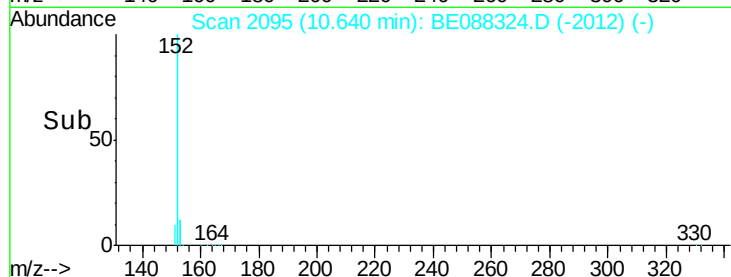
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Tgt Ion:	152	Resp:	1485205
Ion Ratio	Lower	Upper	
152	100		
151	4.6	3.7	5.5
153	13.4	10.5	15.7

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#10

Acenaphthene

Concen: 8.91 ng

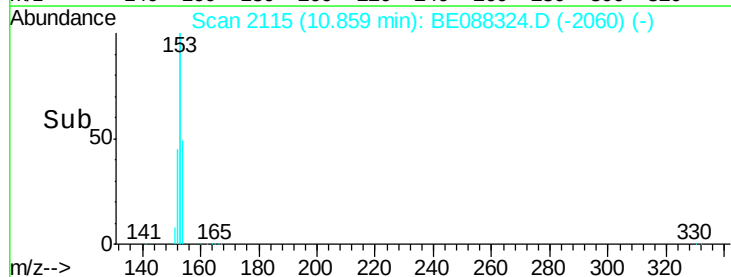
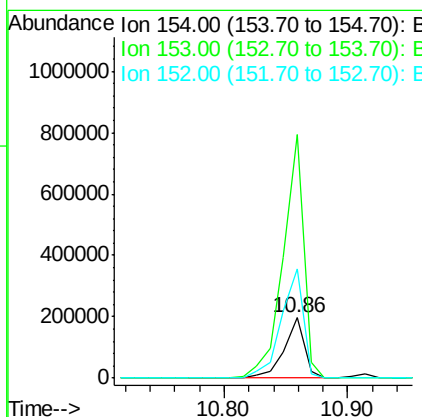
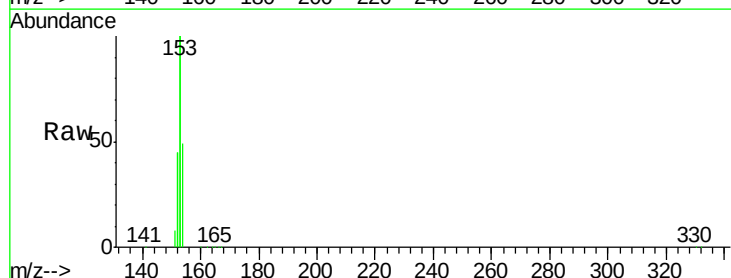
RT: 10.86 min Scan# 2115

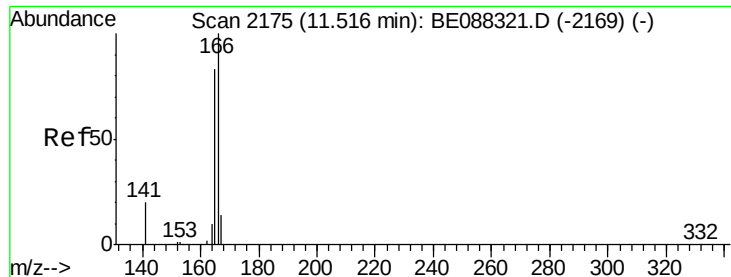
Delta R.T. 0.00 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

Tgt Ion:	154	Resp:	218370
Ion Ratio	Lower	Upper	
154	100		
153	415.8	323.8	485.6
152	200.7	154.8	232.2





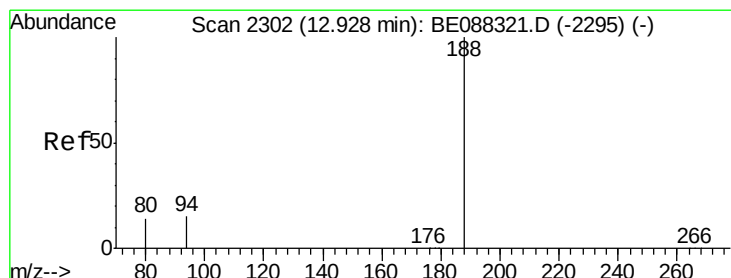
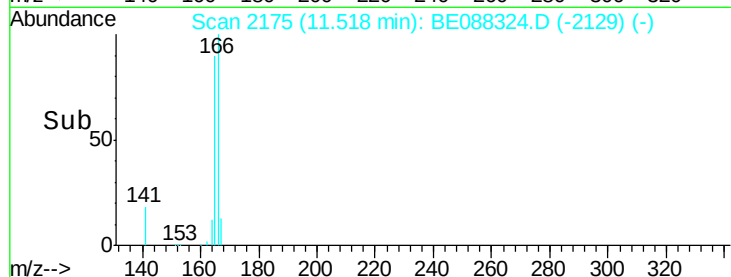
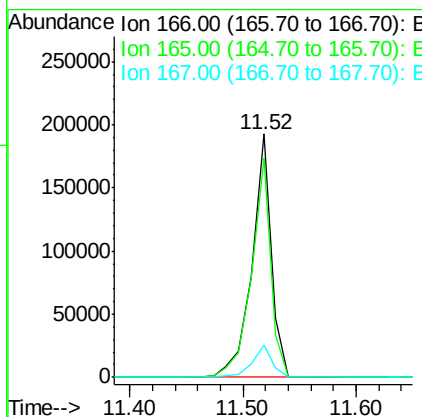
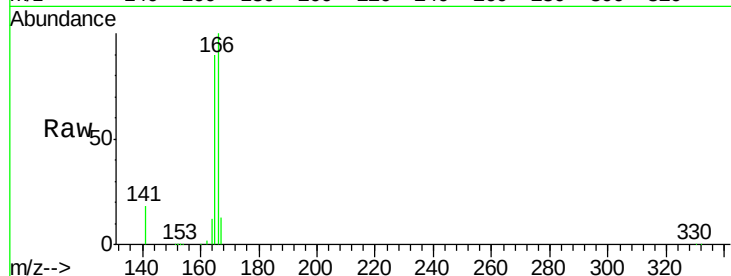
#11
 Fluorene
 Concen: 9.14 ng
 RT: 11.52 min Scan# 2175
 Delta R.T. 0.00 min
 Lab File: BE088324.D
 Acq: 27 Oct 2014 21:24

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.0	70.6	105.8
167	13.6	10.7	16.1

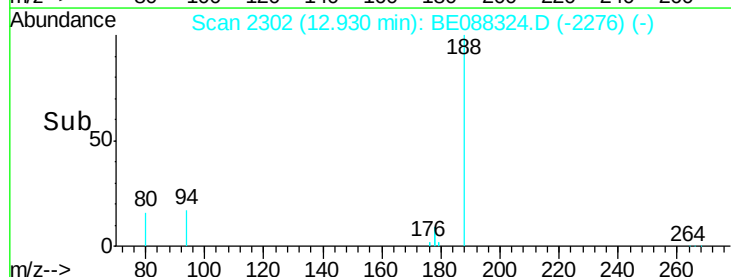
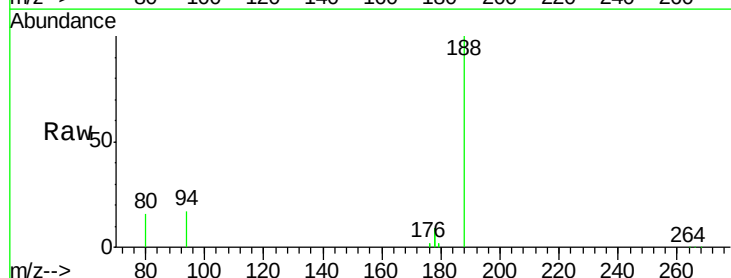
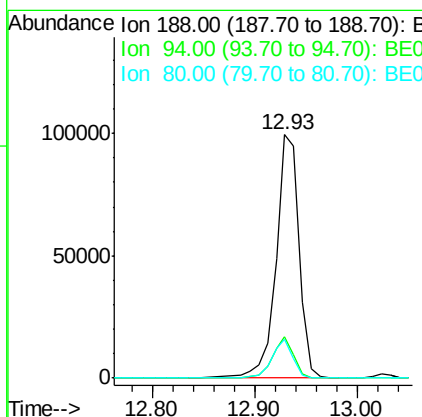
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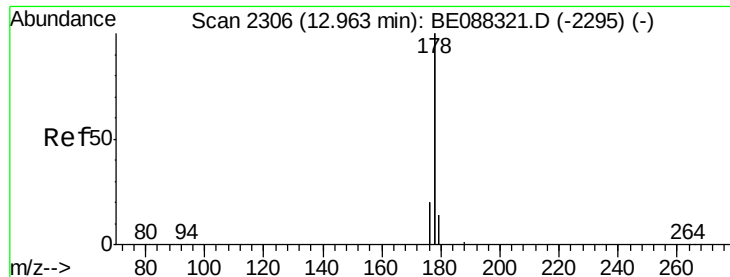
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#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.93 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE088324.D
 Acq: 27 Oct 2014 21:24

Tgt Ion	Ratio	Lower	Upper
188	100		
94	17.1	12.0	18.0
80	16.2	11.3	16.9





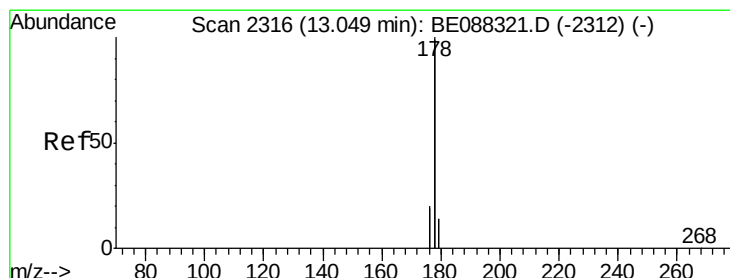
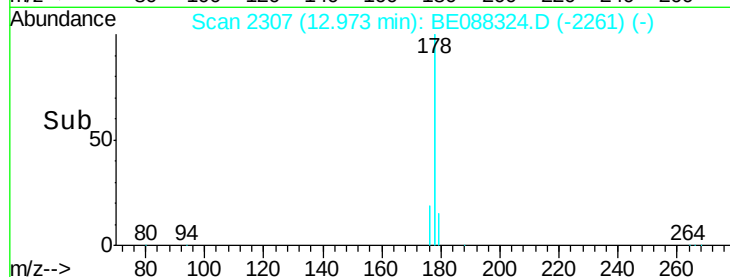
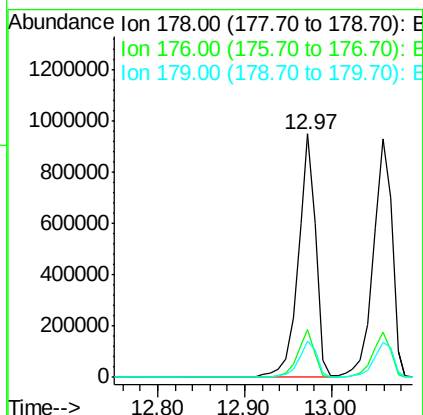
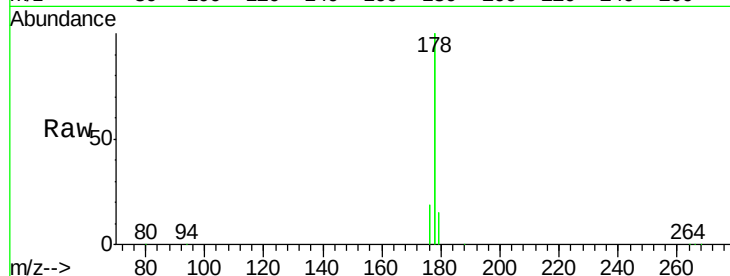
#13
Phenanthrene
Concen: 8.60 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BE088324.D
Acq: 27 Oct 2014 21:24

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 1671423
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.6
179 15.5 13.2 19.8

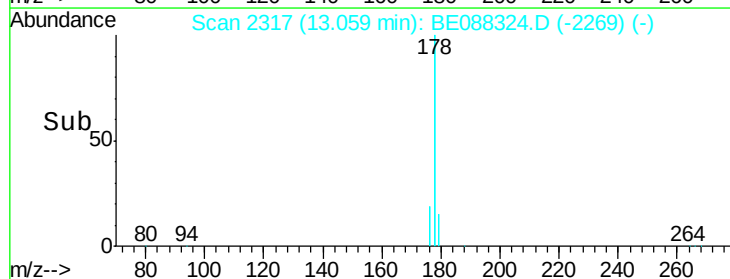
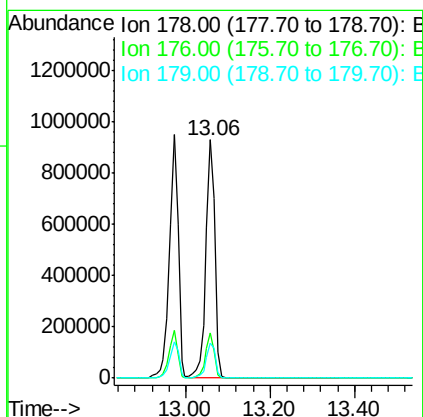
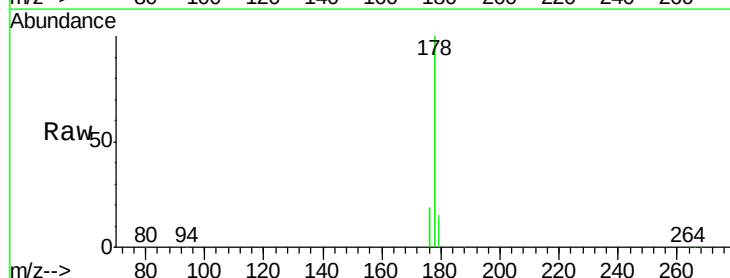
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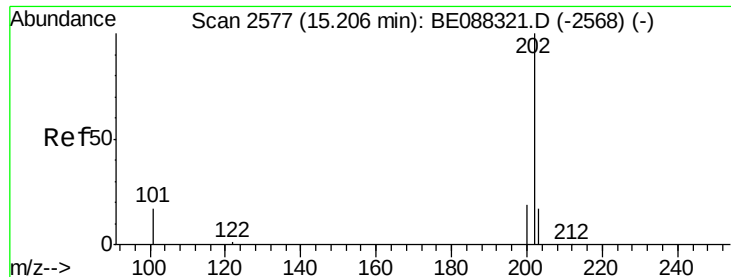
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#14
Anthracene
Concen: 9.54 ng
RT: 13.06 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BE088324.D
Acq: 27 Oct 2014 21:24

Tgt Ion:178 Resp: 1377453
Ion Ratio Lower Upper
178 100
176 18.3 14.6 21.8
179 15.4 12.6 18.8





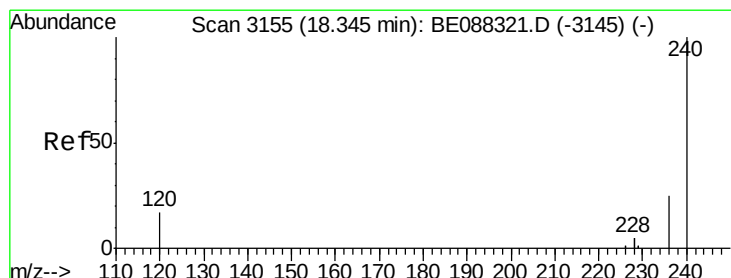
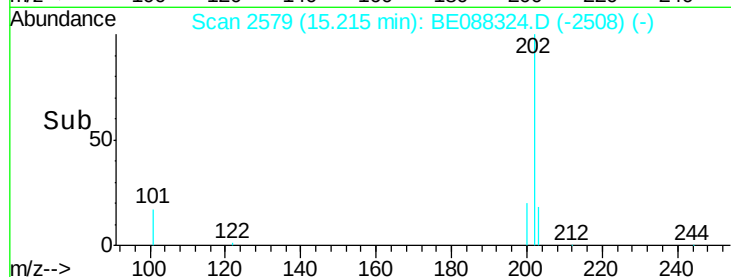
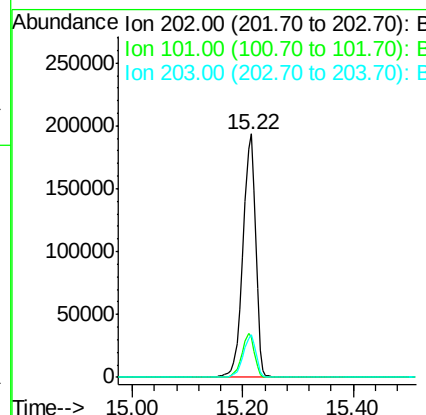
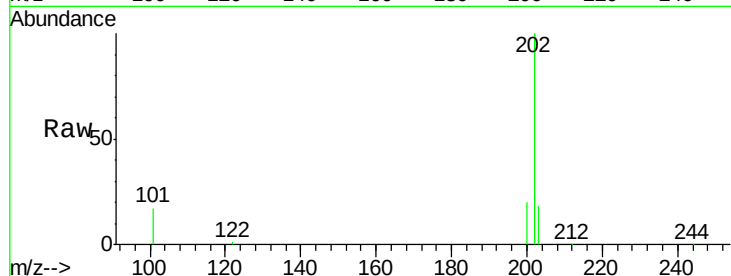
#15
 Fluoranthene
 Concen: 10.30 ng
 RT: 15.22 min Scan# 2579
 Delta R.T. 0.01 min
 Lab File: BE088324.D
 Acq: 27 Oct 2014 21:24

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	17.8	14.6	21.8
203	17.4	13.8	20.6

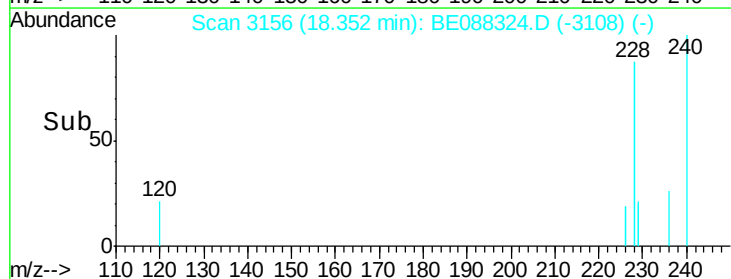
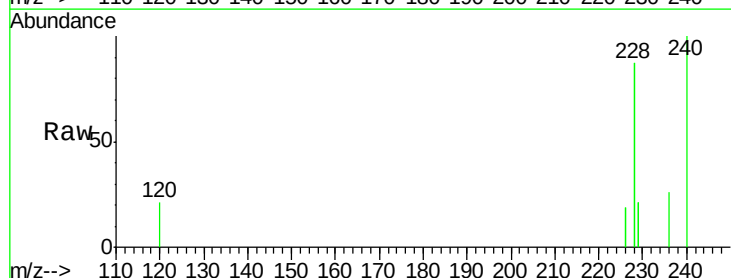
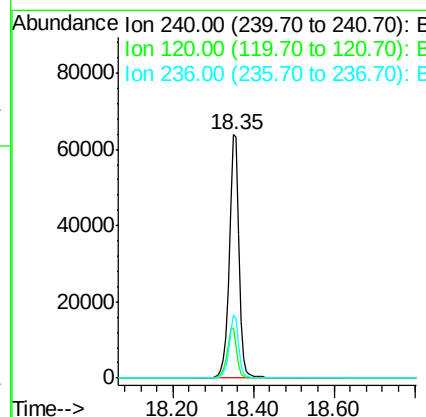
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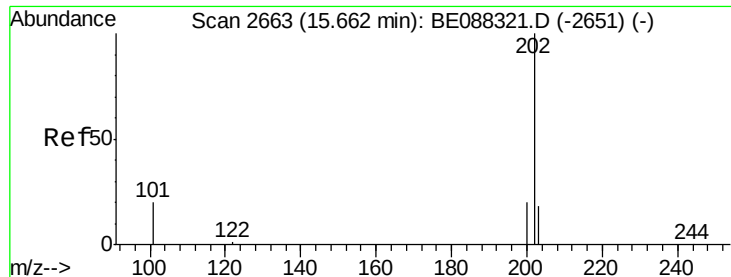
mohammad
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#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3156
 Delta R.T. 0.01 min
 Lab File: BE088324.D
 Acq: 27 Oct 2014 21:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	20.8	13.4	20.0#
236	26.0	20.0	30.0





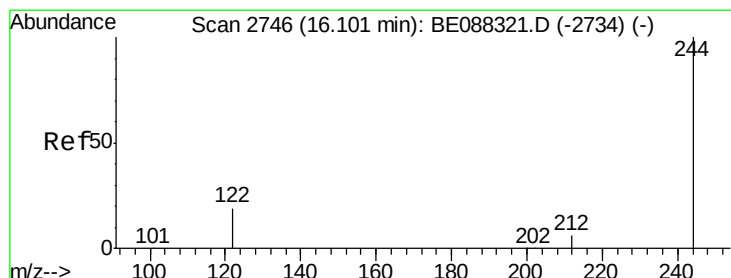
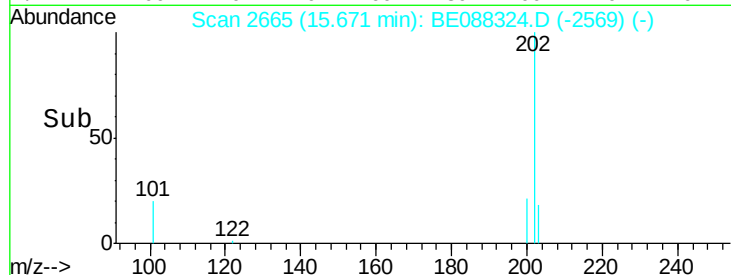
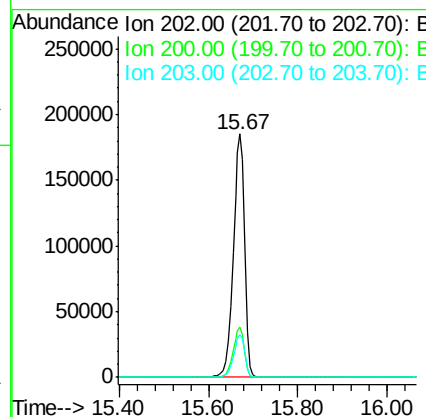
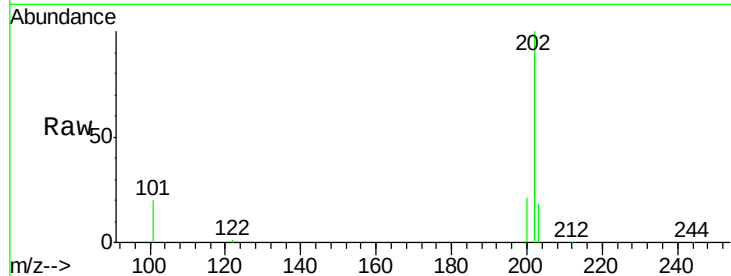
#17
 Pyrene
 Concen: 10.94 ng
 RT: 15.67 min Scan# 2665
 Delta R.T. 0.01 min
 Lab File: BE088324.D
 Acq: 27 Oct 2014 21:24

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	321279		
200	20.5	16.1	24.1	
203	17.5	13.9	20.9	

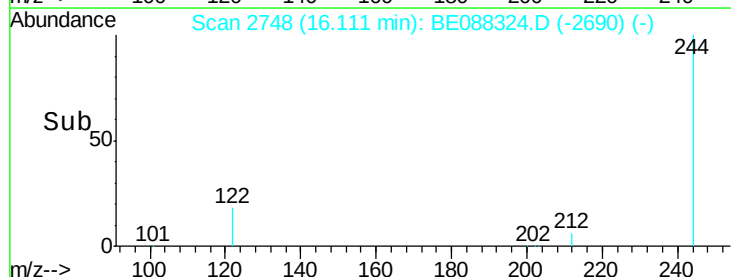
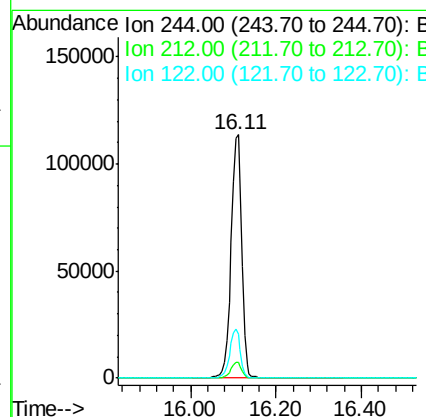
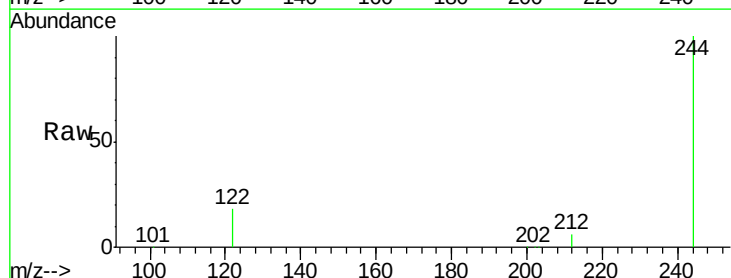
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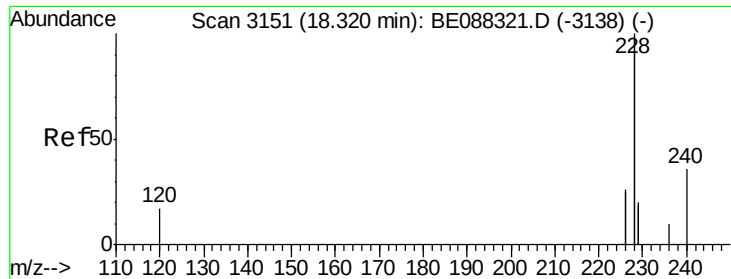
mohammad
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#18
 Terphenyl-d14
 Concen: 11.32 ng
 RT: 16.11 min Scan# 2748
 Delta R.T. 0.01 min
 Lab File: BE088324.D
 Acq: 27 Oct 2014 21:24

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	199764		
212	6.4	5.1	7.7	
122	18.1	15.8	23.8	





#19

Benzo(a)anthracene

Concen: 12.00 ng

RT: 18.33 min Scan# 3153

Delta R.T. 0.01 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

Tgt Ion:228 Resp: 1015368

Ion Ratio Lower Upper

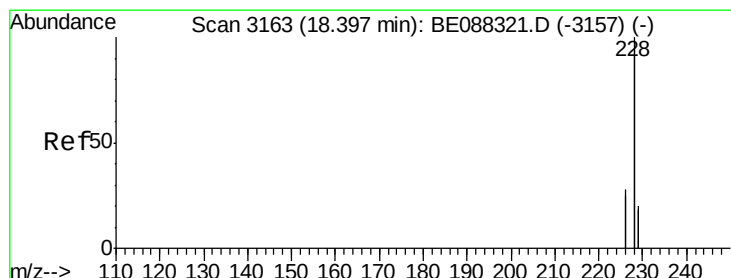
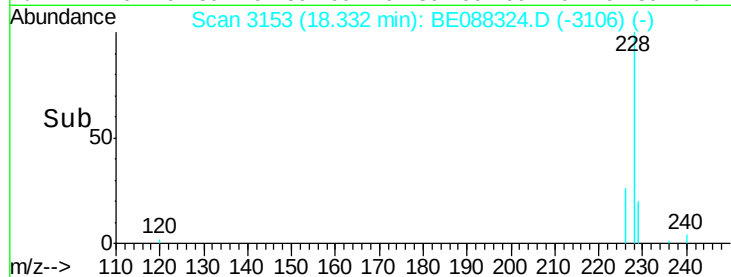
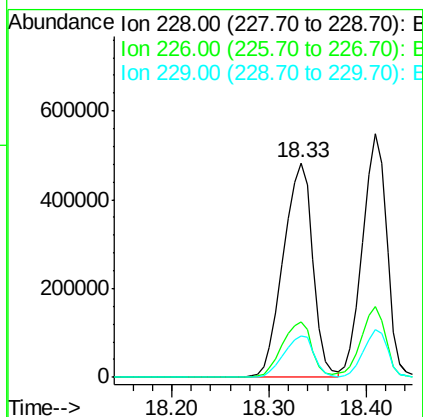
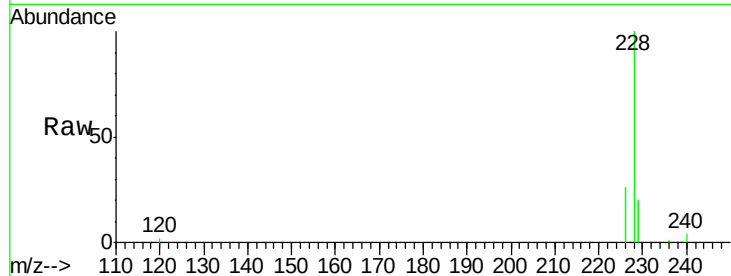
228 100

226 26.2 20.7 31.1

229 19.5 15.7 23.5

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#20

Chrysene

Concen: 10.16 ng

RT: 18.41 min Scan# 3165

Delta R.T. 0.01 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

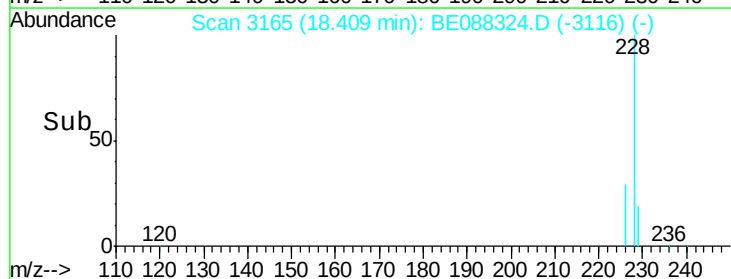
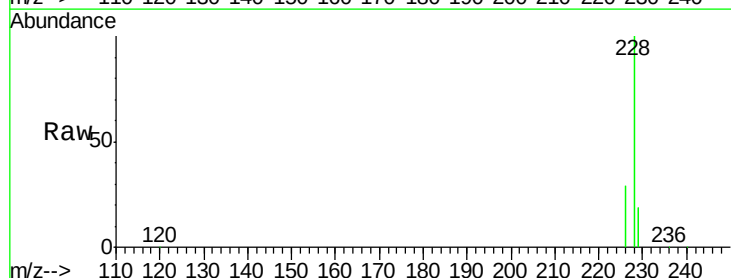
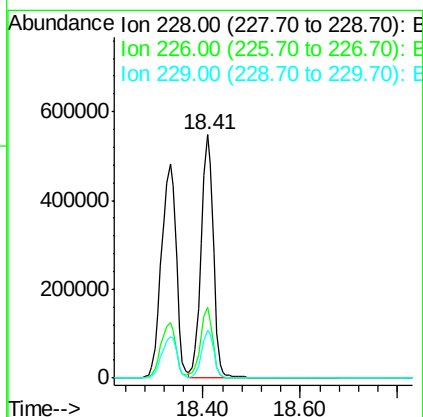
Tgt Ion:228 Resp: 959341

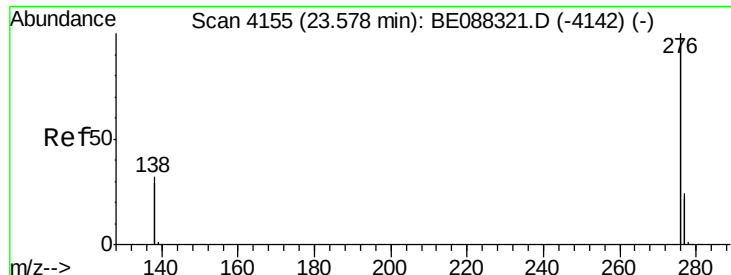
Ion Ratio Lower Upper

228 100

226 29.1 22.7 34.1

229 19.5 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 15.38 ng m

RT: 23.60 min Scan# 4159

Delta R.T. 0.03 min

Lab File: BE088324.D

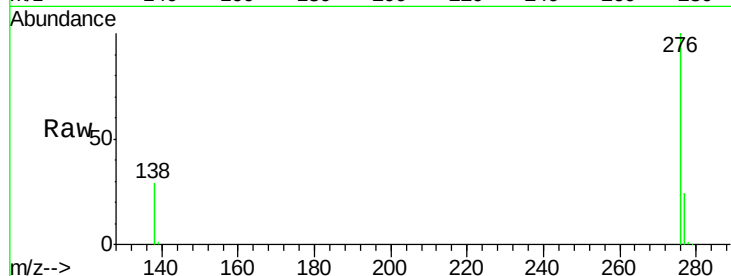
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

SSTDIC010



Tgt Ion: 276 Resp: 1099249

Ion Ratio Lower Upper

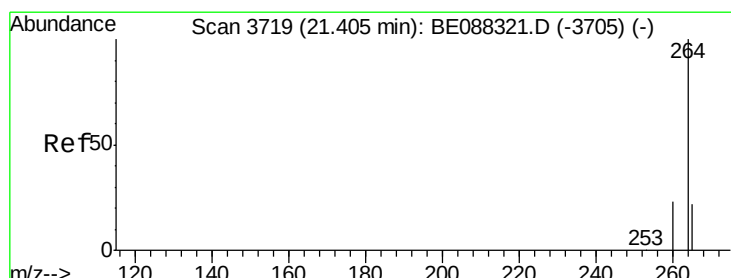
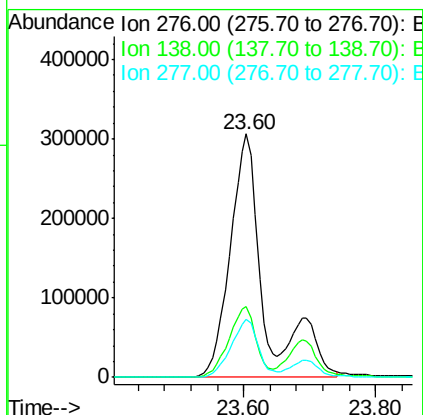
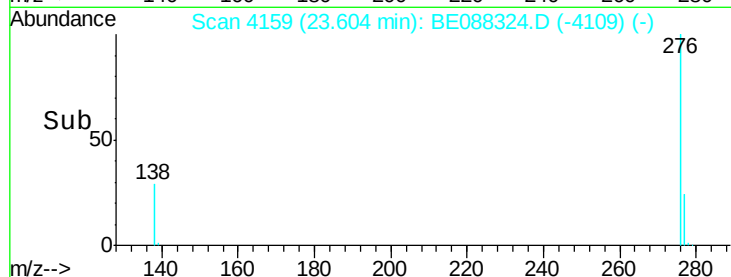
276 100

138 23.3 24.6 37.0#

277 19.0 19.0 28.6#

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#22

Perylene-d12

Concen: 5.00 ng

RT: 21.41 min Scan# 3719

Delta R.T. 0.00 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

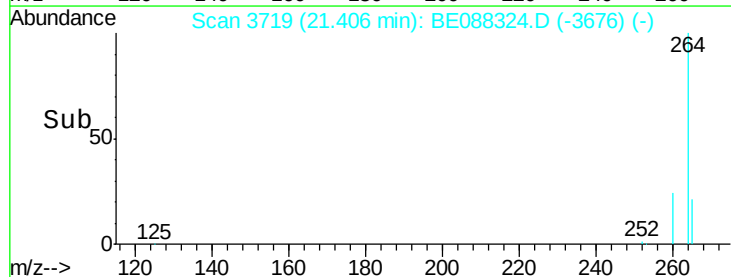
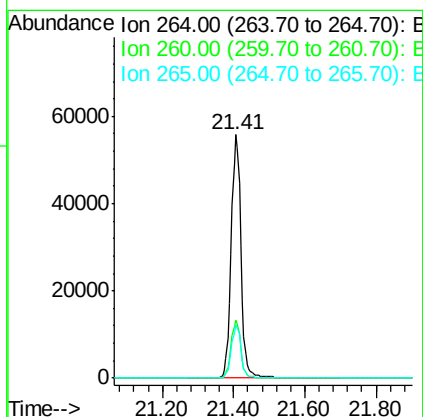
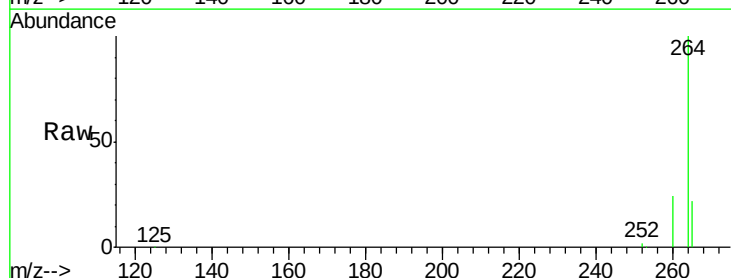
Tgt Ion: 264 Resp: 104876

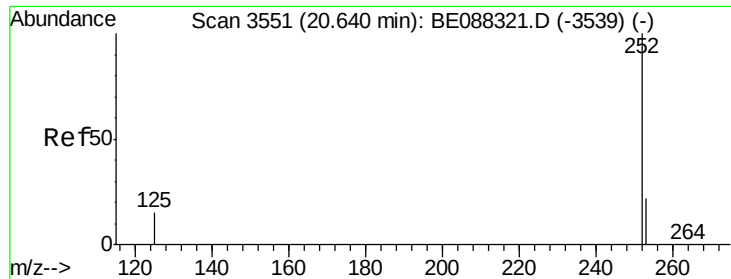
Ion Ratio Lower Upper

264 100

260 23.7 18.9 28.3

265 21.5 17.4 26.0





#23

Benzo(b)fluoranthene

Concen: 13.40 ng

RT: 20.65 min Scan# 3554

Delta R.T. 0.01 min

Lab File: BE088324.D

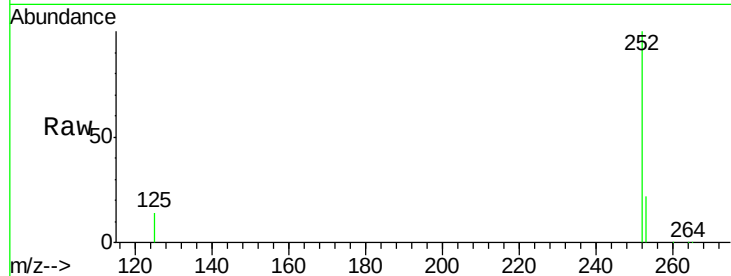
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

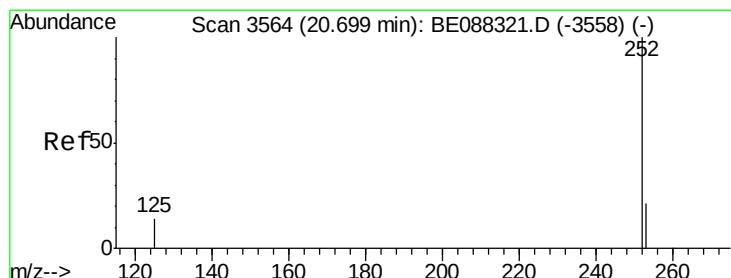
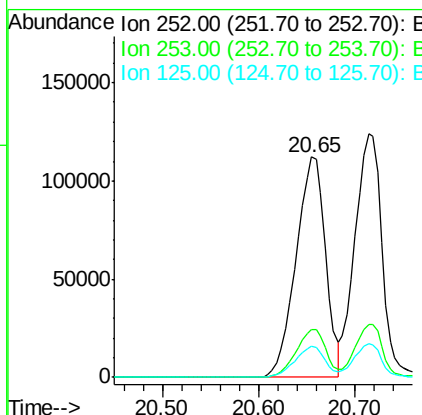
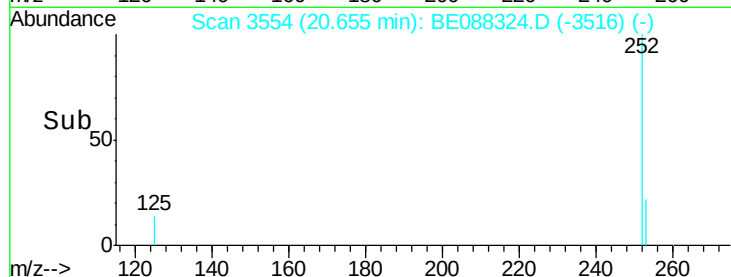
SSTDICC010



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	14.1	12.2	18.2

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#24

Benzo(k)fluoranthene

Concen: 9.23 ng

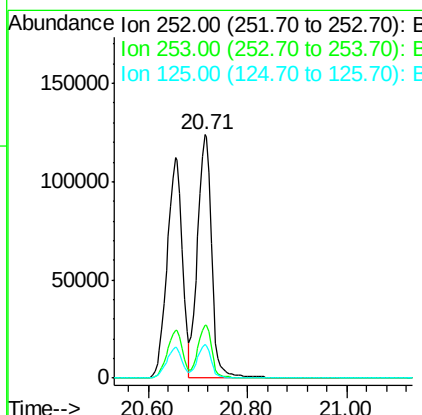
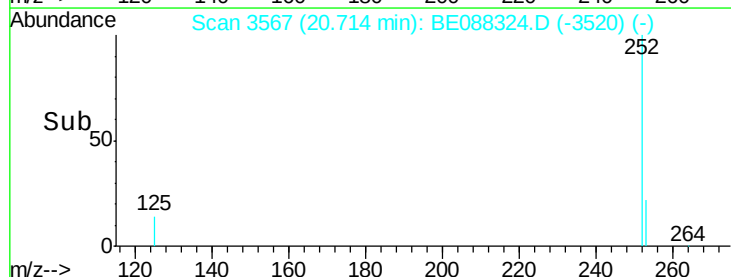
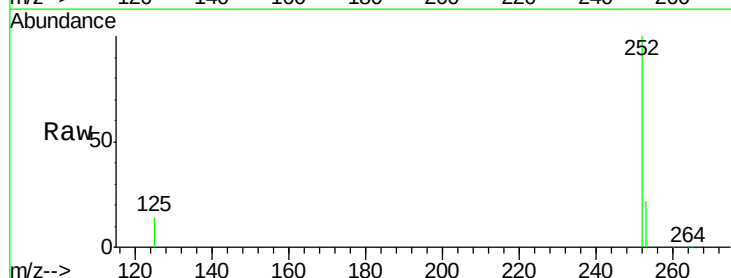
RT: 20.71 min Scan# 3567

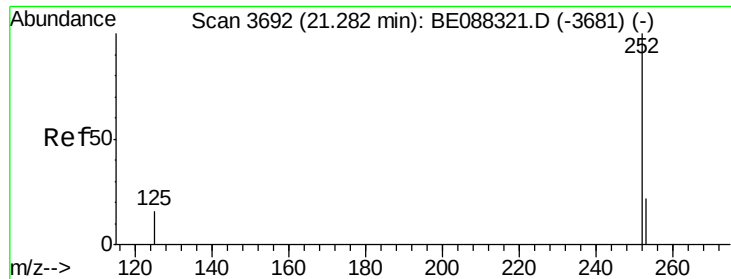
Delta R.T. 0.01 min

Lab File: BE088324.D

Acq: 27 Oct 2014 21:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	13.8	11.9	17.9





#25

Benzo(a)pyrene

Concen: 13.40 ng

RT: 21.30 min Scan# 3695

Delta R.T. 0.01 min

Lab File: BE088324.D

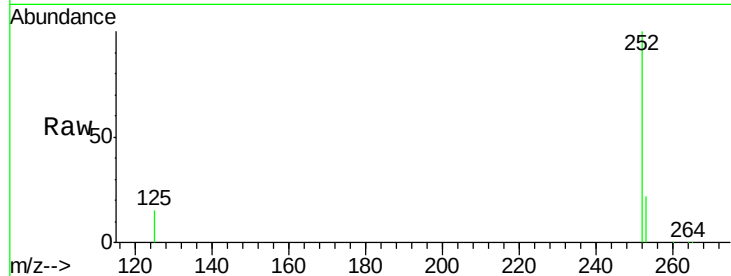
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

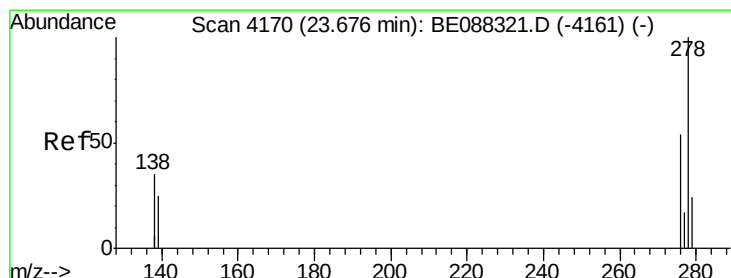
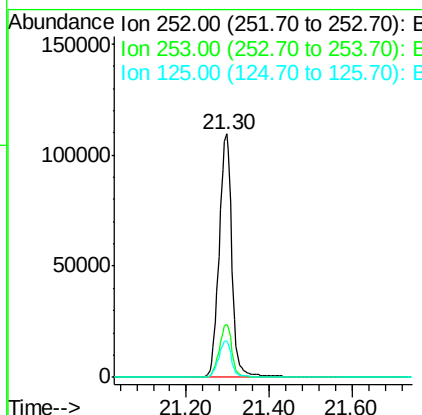
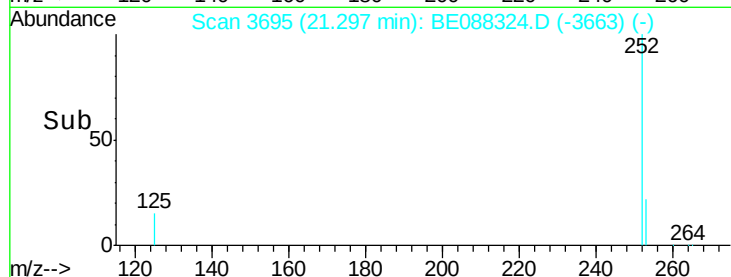
SSTDICC010



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	15.1	13.2	19.8

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#26

Dibenzo(a,h)anthracene

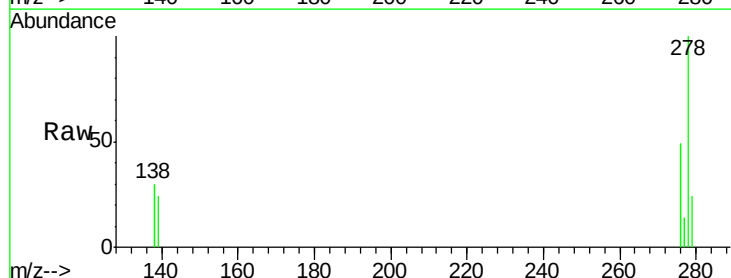
Concen: 13.85 ng

RT: 23.70 min Scan# 4173

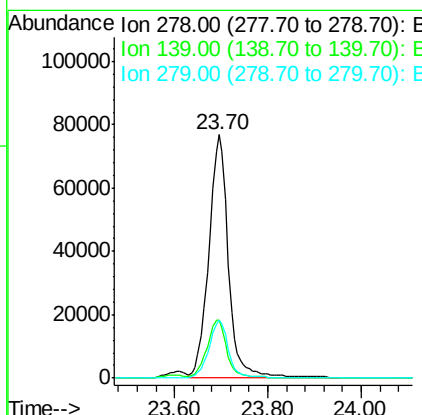
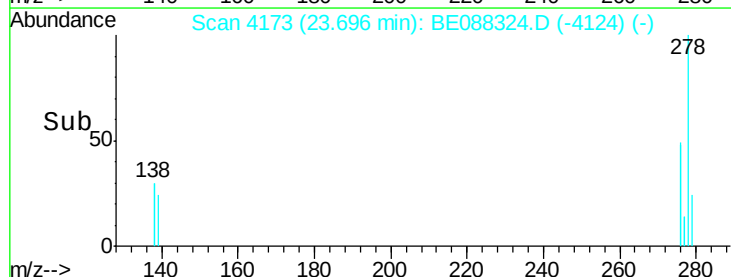
Delta R.T. 0.02 min

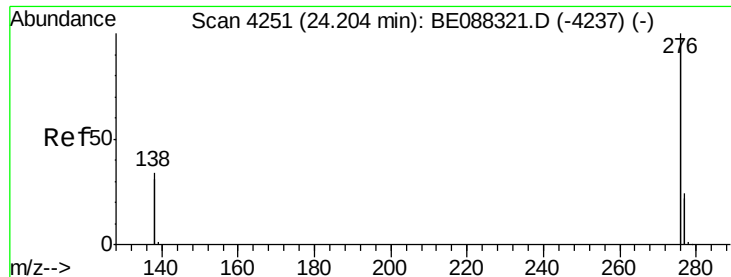
Lab File: BE088324.D

Acq: 27 Oct 2014 21:24



Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.8	21.0	31.4
279	24.0	19.8	29.8





#27

Benzo(g,h,i)perylene

Concen: 11.44 ng

RT: 24.24 min Scan# 4256

Delta R.T. 0.03 min

Lab File: BE088324.D

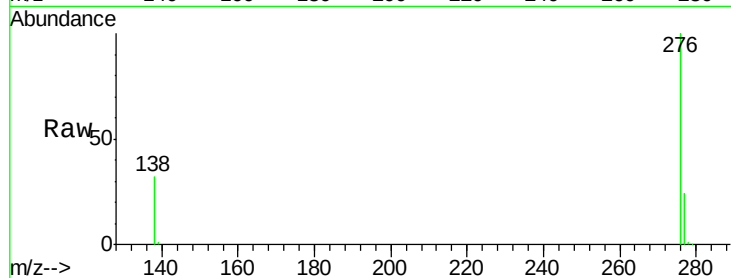
Acq: 27 Oct 2014 21:24

Instrument :

BNA_E

ClientSampleId :

SSTDIC010



Tgt Ion:	276	Resp:	963949
Ion Ratio	Lower	Upper	
276	100		
277	23.6	19.1	28.7
138	31.9	27.0	40.4

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