

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
 Data File : BE092221.D
 Acq On : 8 Aug 2016 18:20
 Operator : UM/SJ
 Sample : H4145-29
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 9548

Manual Integrations
 APPROVED

umangi
 8/9/2016 2:39:15 PM

Quant Time: Aug 09 10:30:10 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 08 18:55:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10978	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	48657	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	27046	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	63350	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	77146	5.00	ng	0.00
28) Perylene-d12	24.14	264	79139	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	20713	7.35	ng	0.00
5) Phenol-d6	7.35	99	25676	6.84	ng	0.00
7) Nitrobenzene-d5	9.35	82	11271	2.94	ng	0.00
11) 2,4,6-Tribromophenol	16.33	330	5602	6.38	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	26978	3.15	ng	0.00
24) Terphenyl-d14	20.19	244	40400	3.65	ng	-0.02
Target Compounds						Qvalue
8) Naphthalene	11.03	128	38148	3.65	ng	95
13) Acenaphthylene	14.54	152	289877	6.07	ng	98
14) Acenaphthene	14.90	154	27249	3.58	ng	93
15) Fluorene	15.88	166	62092	6.44	ng	100
19) Phenanthrene	17.60	178	42236	2.43	ng	99
20) Anthracene	17.70	178	41704	2.47	ng	100
21) Fluoranthene	19.63	202	236068	3.05	ng	96
23) Pyrene	19.99	202	194726	2.41	ng	98
25) Benzo(a)anthracene	21.72	228	68542m	0.81	ng	
26) Chrysene	21.77	228	278408m	3.28	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	232418	2.52	ng	100
29) Benzo(b)fluoranthene	23.40	252	49357m	2.28	ng	
30) Benzo(k)fluoranthene	23.45	252	57040	2.75	ng	96
31) Benzo(a)pyrene	24.02	252	15214	0.76	ng	97
32) Dibenzo(a,h)anthracene	26.67	278	44285	2.33	ng	# 93
33) Benzo(g,h,i)perylene	27.42	276	54366	0.67	ng	97

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

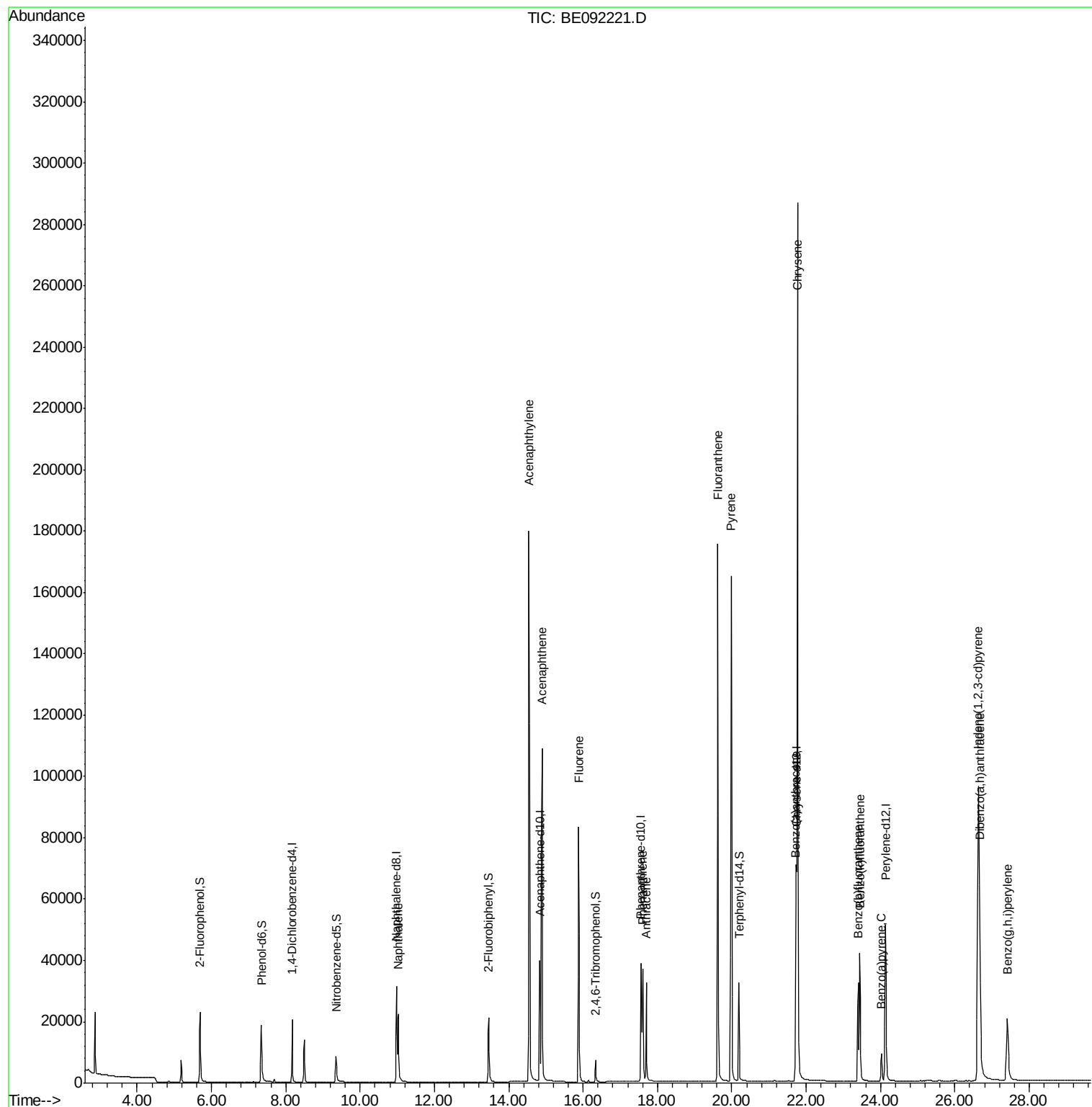
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
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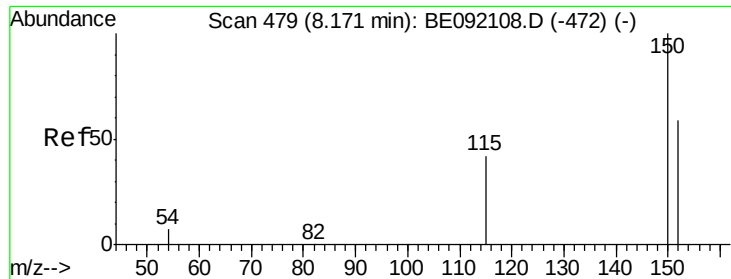
Instrument :
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9548

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Quant Time: Aug 09 10:30:10 2016
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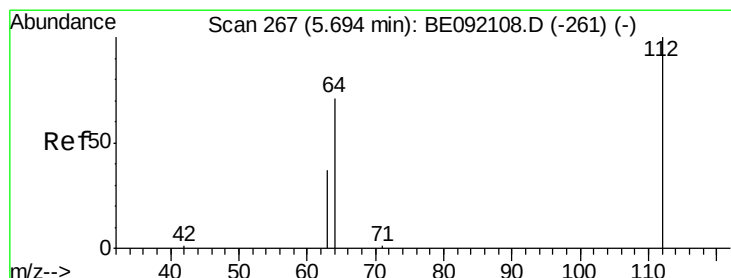
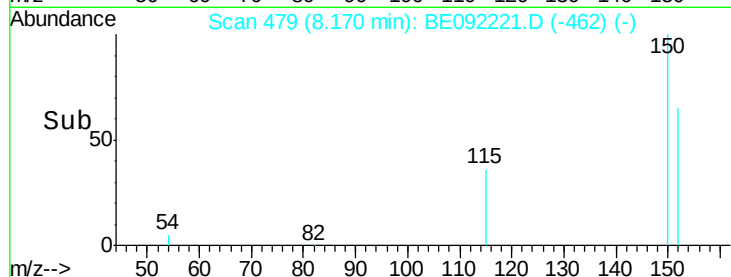
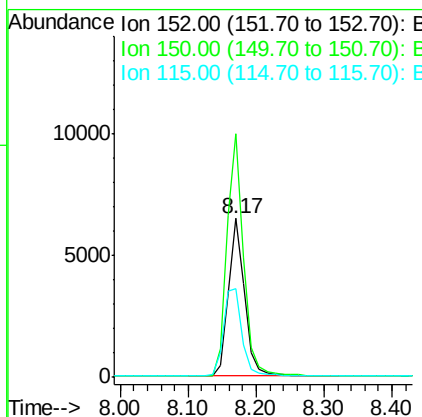
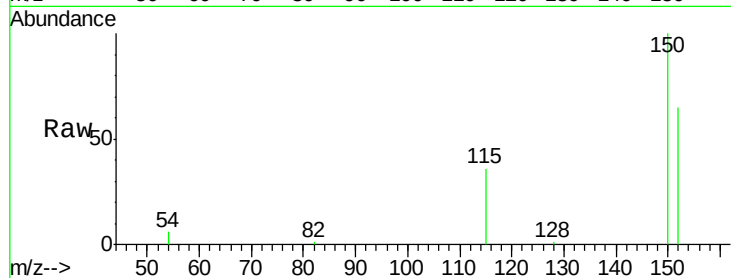
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.17 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: BE092221.D
 Acq: 8 Aug 2016 18:20

Instrument :
 BNA_E
 ClientSampled :
 9548

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.6	106.0	159.0
115	55.6	36.9	55.3

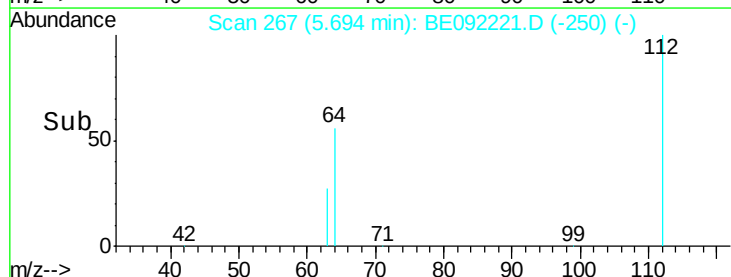
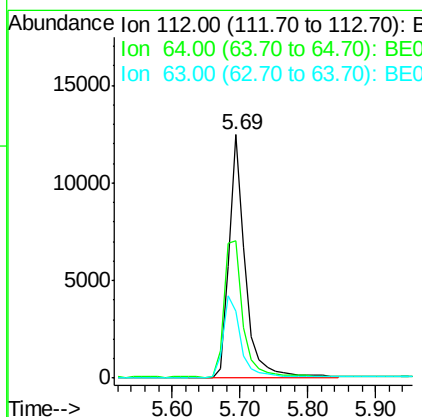
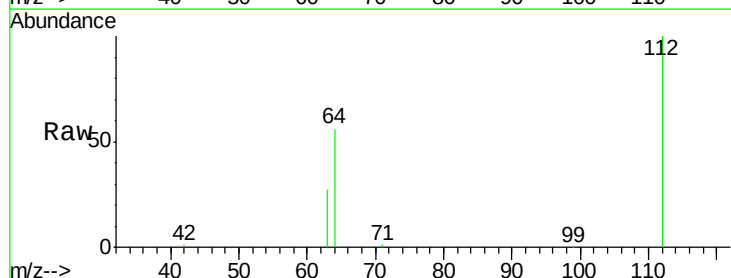
Manual Integrations
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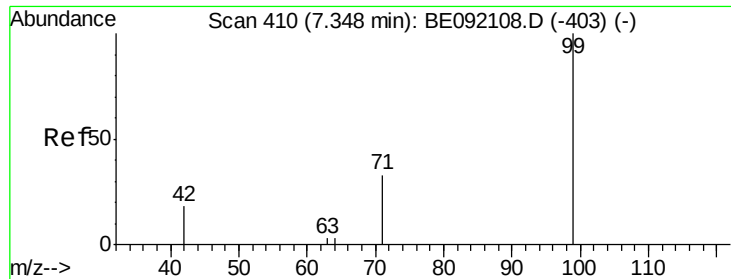
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#4
 2-Fluorophenol
 Concen: 7.35 ng
 RT: 5.69 min Scan# 267
 Delta R.T. -0.00 min
 Lab File: BE092221.D
 Acq: 8 Aug 2016 18:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	55.9	83.9
63	36.6	31.1	46.7





#5

Phenol-d6

Concen: 6.84 ng

RT: 7.35 min Scan# 410

Delta R.T. -0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Instrument :

BNA_E

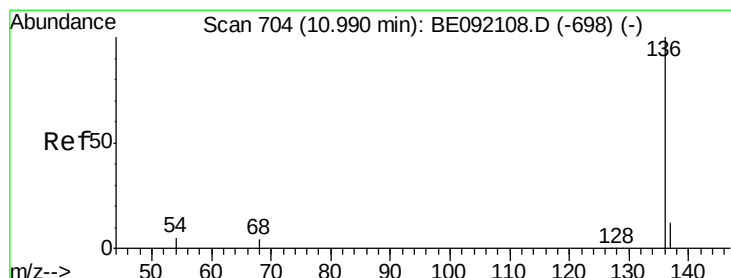
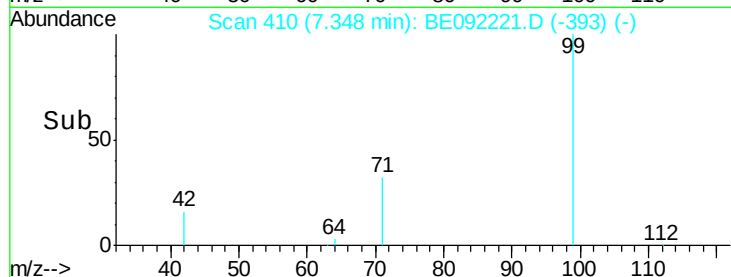
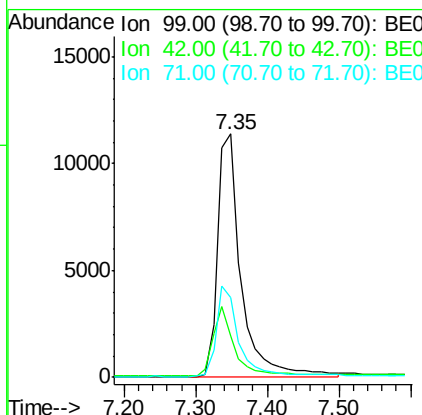
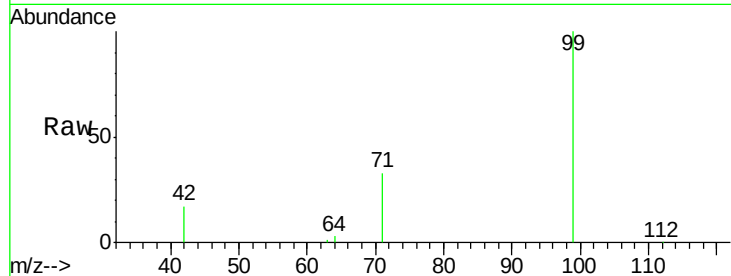
ClientSampled :

9548

Tgt Ion:	99	Resp:	25676
Ion Ratio	Lower	Upper	
99	100		
42	25.5	22.4	33.6
71	35.8	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

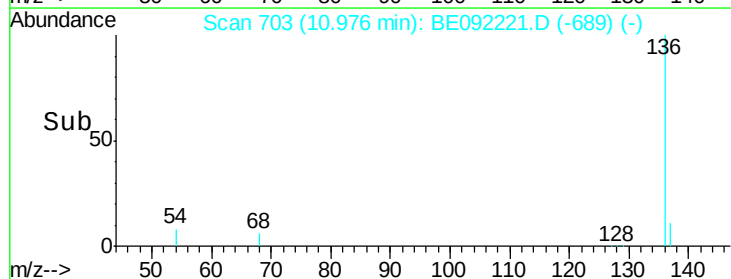
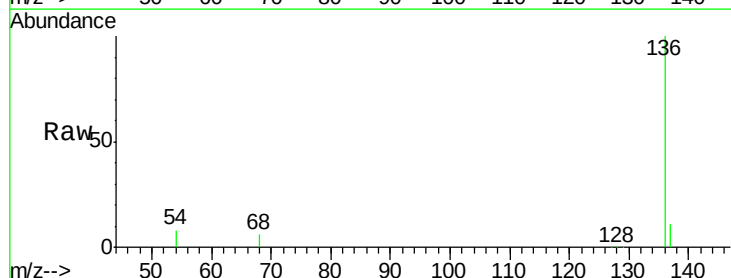
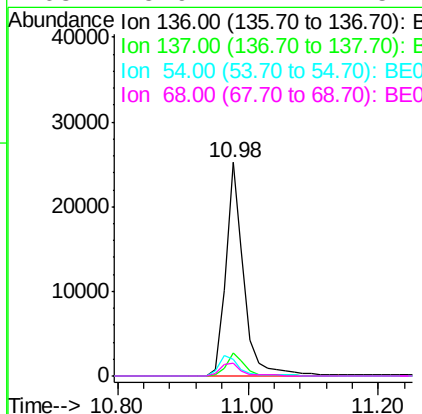
RT: 10.98 min Scan# 703

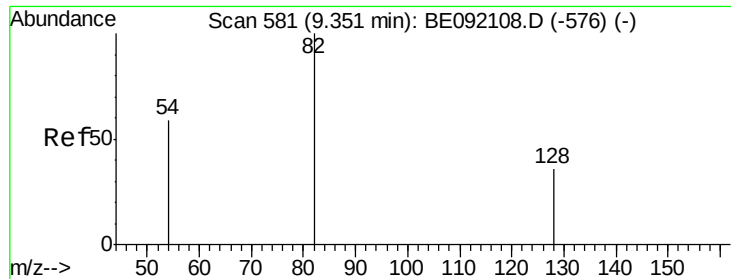
Delta R.T. -0.01 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Tgt Ion:	136	Resp:	48657
Ion Ratio	Lower	Upper	
136	100		
137	10.9	9.1	13.7
54	8.0	2.7	4.1#
68	5.9	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 2.94 ng

RT: 9.35 min Scan# 581

Delta R.T. -0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Instrument :

BNA_E

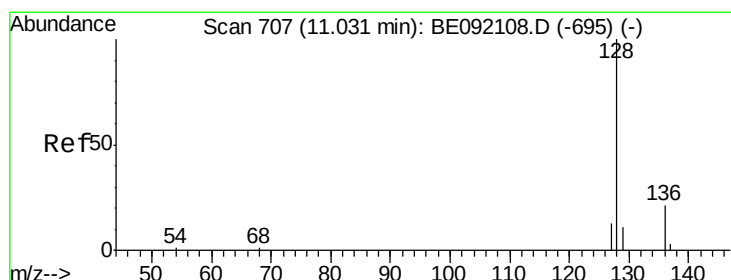
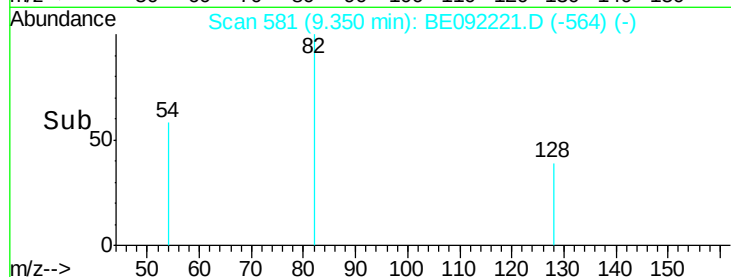
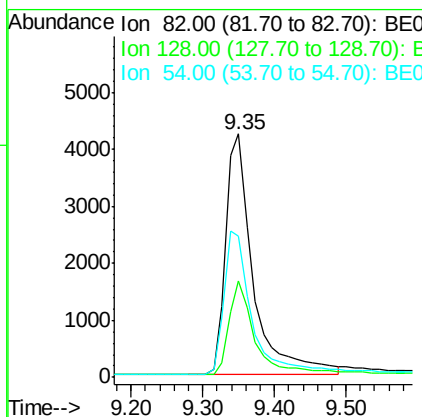
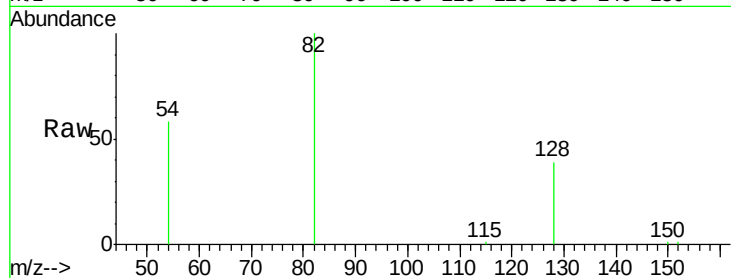
ClientSampled :

9548

Tgt Ion:	82	Resp:	11271
Ion Ratio	Lower	Upper	
82	100		
128	39.4	33.0	49.4
54	58.2	42.6	63.8

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#8

Naphthalene

Concen: 3.65 ng

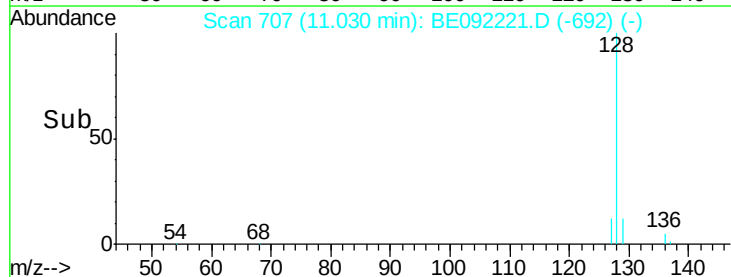
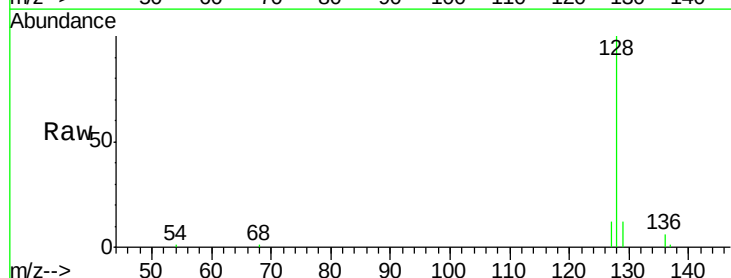
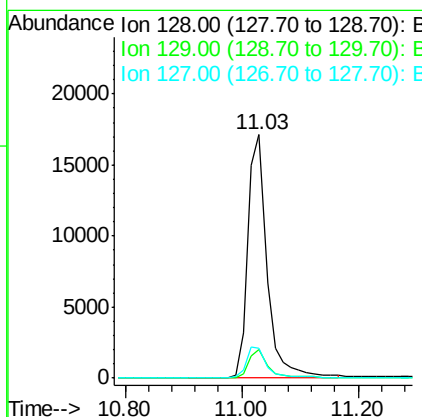
RT: 11.03 min Scan# 707

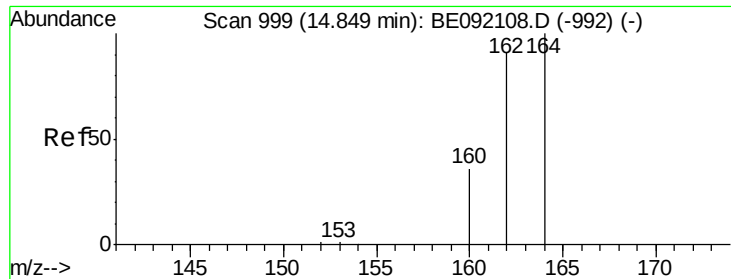
Delta R.T. 0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Tgt Ion:	128	Resp:	38148
Ion Ratio	Lower	Upper	
128	100		
129	11.9	11.1	16.7
127	12.0	11.3	16.9





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Instrument :

BNA_E

ClientSampled :

9548

Tgt Ion:164 Resp: 27046

Ion Ratio Lower Upper

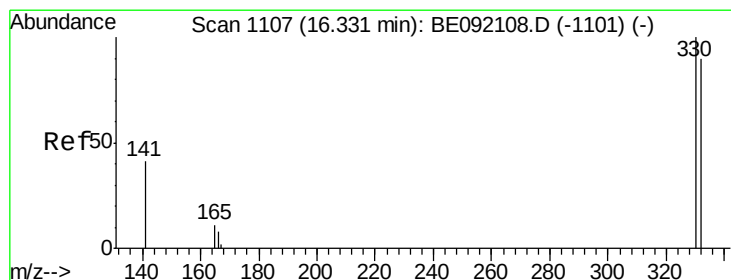
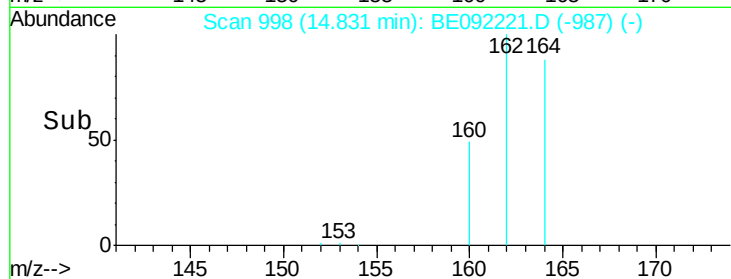
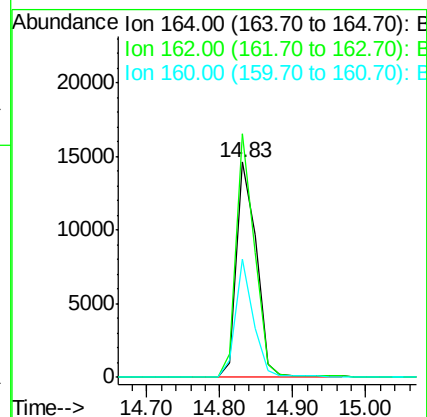
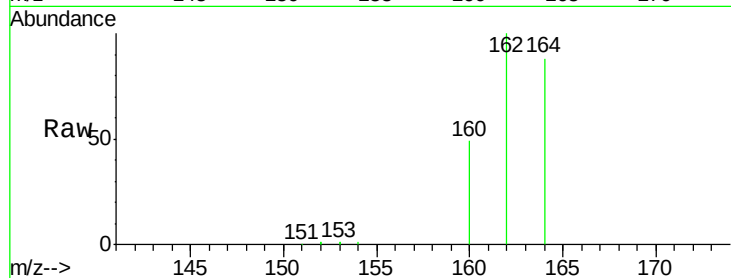
164 100

162 113.2 69.5 104.3#

160 55.1 27.6 41.4#

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#11

2,4,6-Tribromophenol

Concen: 6.38 ng

RT: 16.33 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

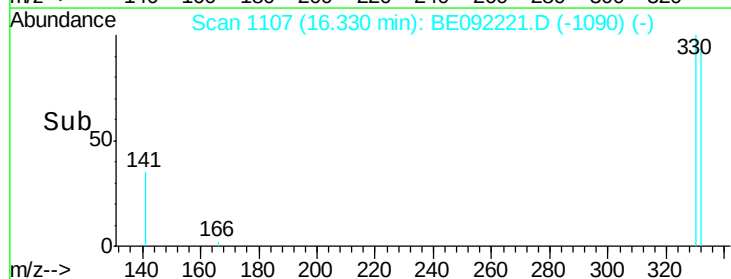
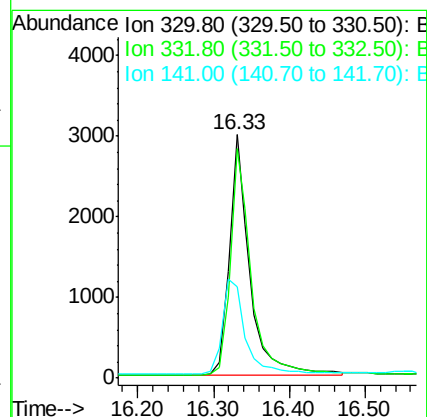
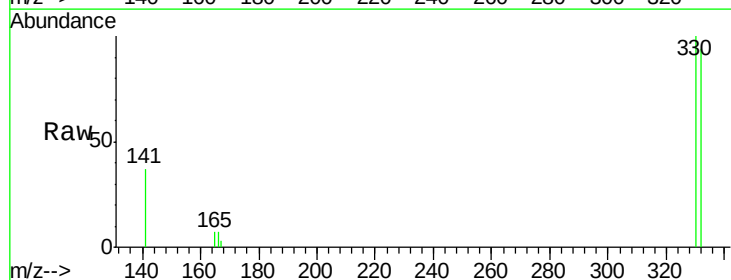
Tgt Ion:330 Resp: 5602

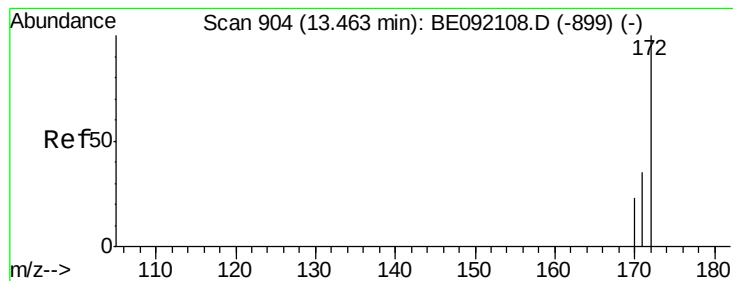
Ion Ratio Lower Upper

330 100

332 97.1 74.2 111.4

141 44.9 139.8 209.8#





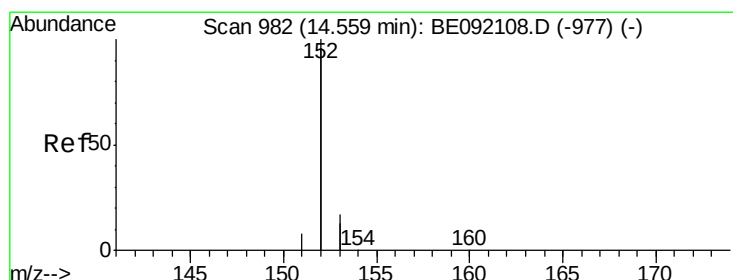
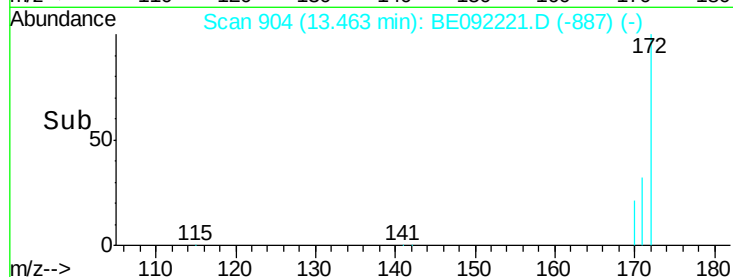
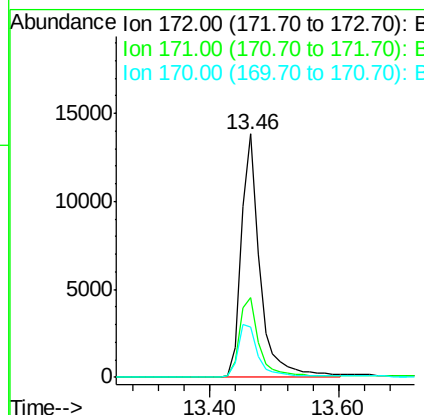
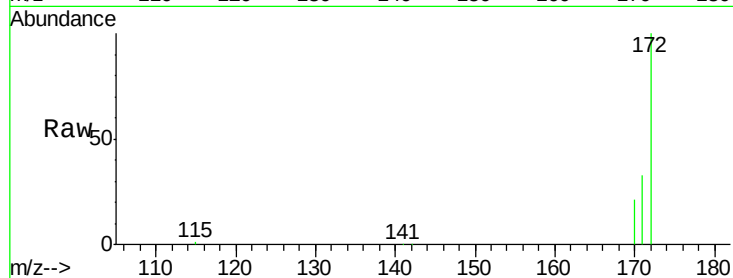
#12
2-Fluorobiphenyl
Concen: 3.15 ng
RT: 13.46 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

Instrument :
BNA_E
ClientSampleId :
9548

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.6	30.3	45.5
170	20.9	21.6	32.4

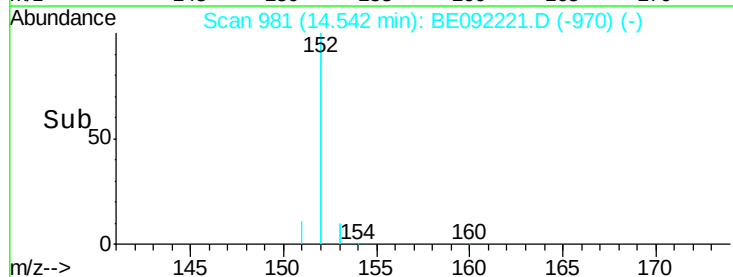
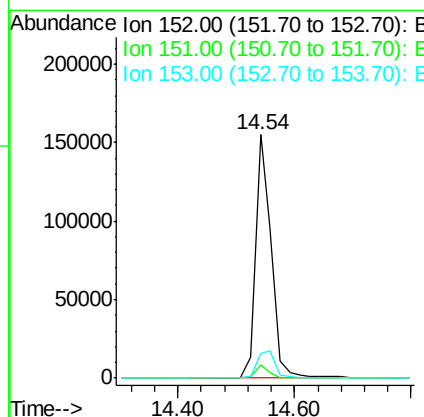
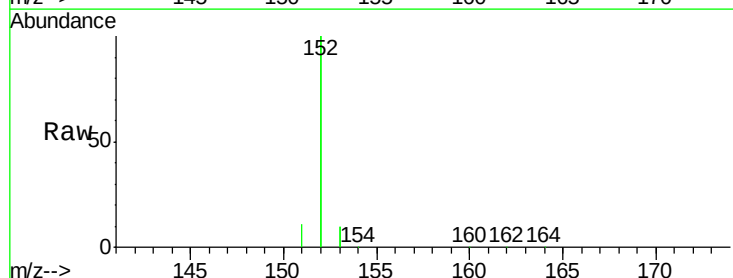
Manual Integrations
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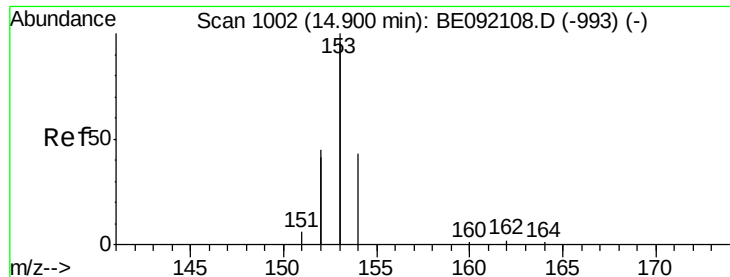
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#13
Acenaphthylene
Concen: 6.07 ng
RT: 14.54 min Scan# 981
Delta R.T. -0.02 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

Tgt Ion	Ratio	Lower	Upper
152	100		
151	5.0	4.0	6.0
153	13.0	9.6	14.4





#14

Acenaphthene

Concen: 3.58 ng

RT: 14.90 min Scan# 1002

Delta R.T. -0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Instrument :

BNA_E

ClientSampleId :

9548

Tgt Ion:154 Resp: 27249

Ion Ratio Lower Upper

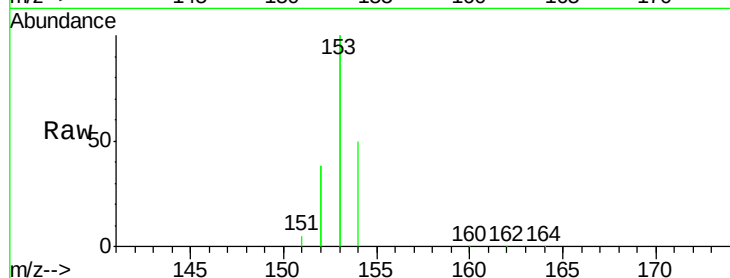
154 100

153 454.5 345.1 517.7

152 224.8 176.0 264.0

Manual Integrations
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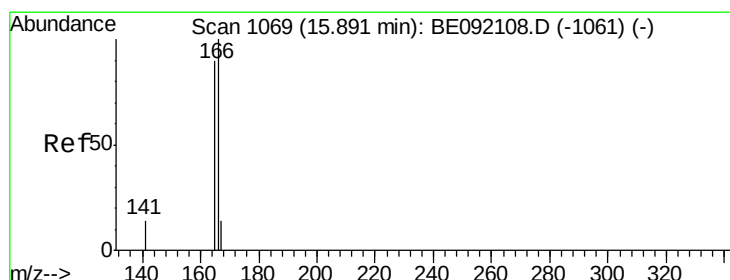
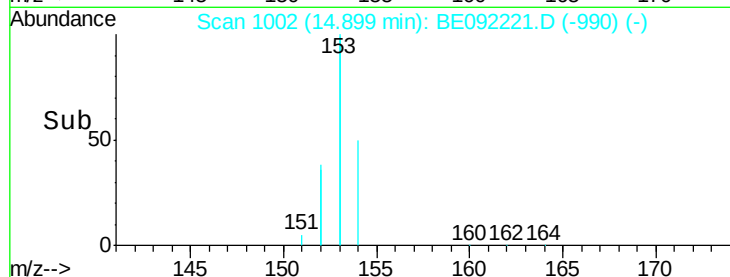
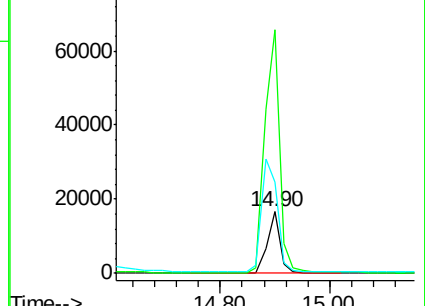
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#15

Fluorene

Concen: 6.44 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

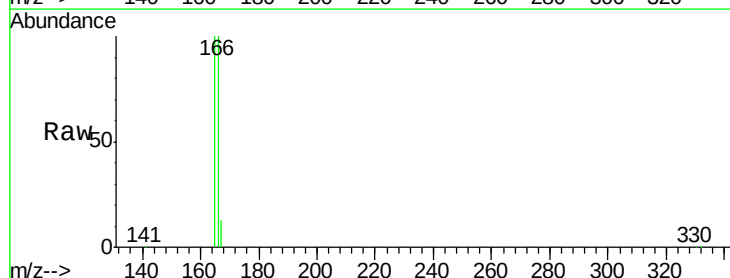
Tgt Ion:166 Resp: 62092

Ion Ratio Lower Upper

166 100

165 98.7 78.6 118.0

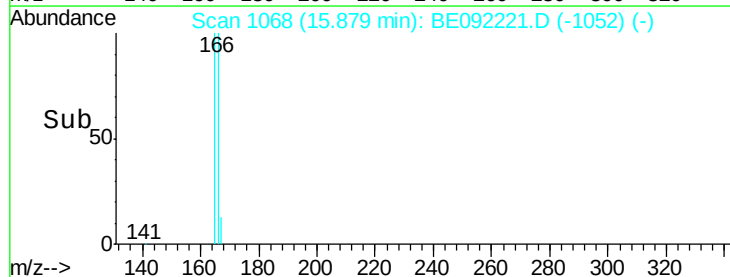
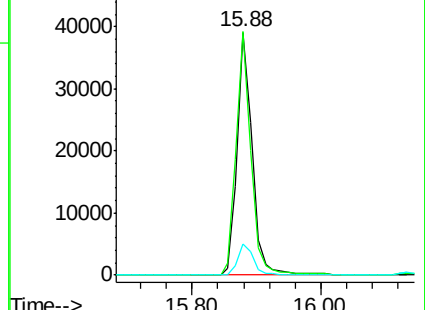
167 13.3 11.1 16.7

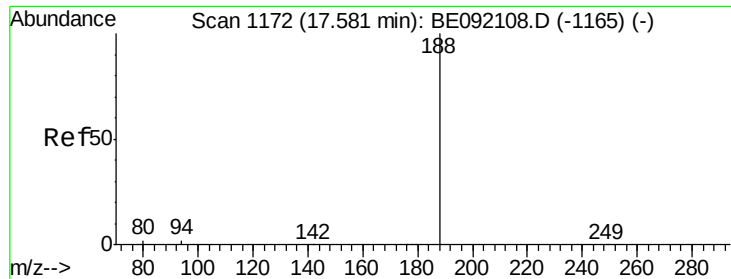


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





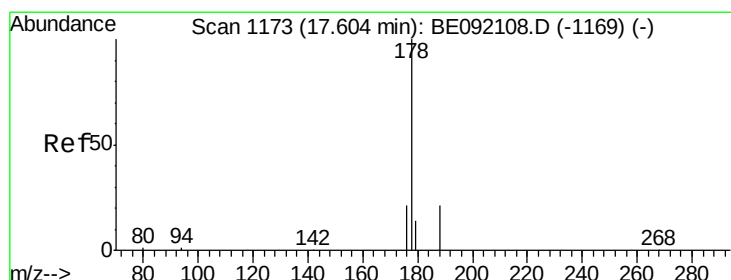
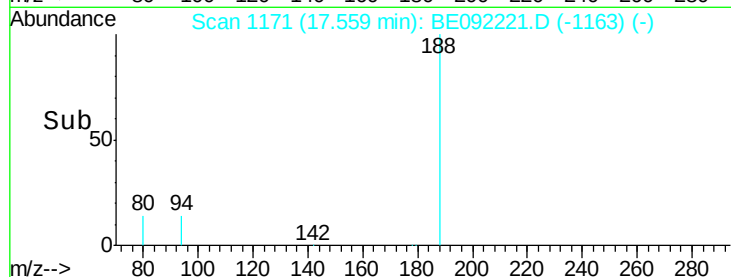
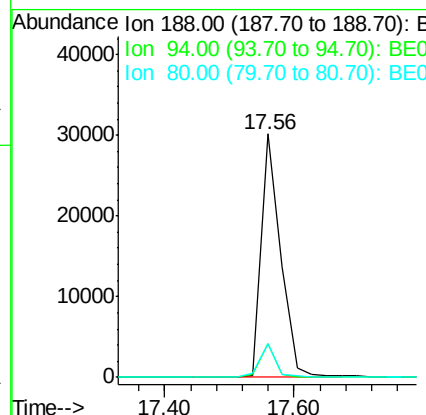
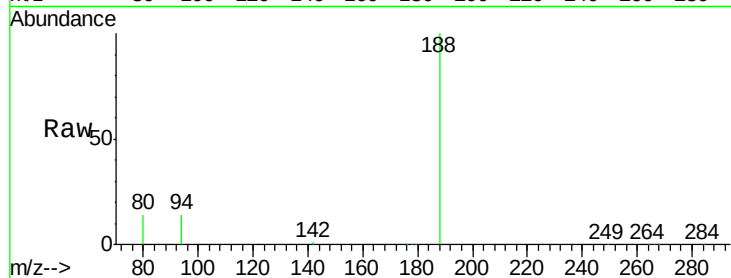
#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

Instrument :
BNA_E
ClientSampleId :
9548

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	13.9	3.9	5.9#
80	14.0	3.4	5.0#

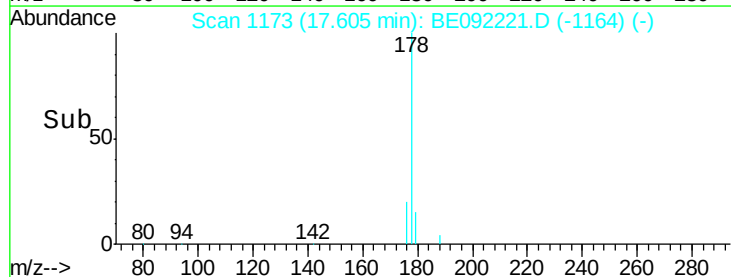
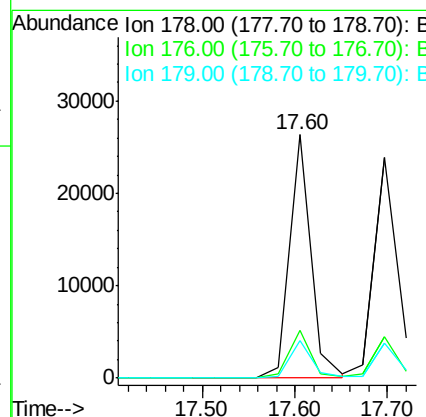
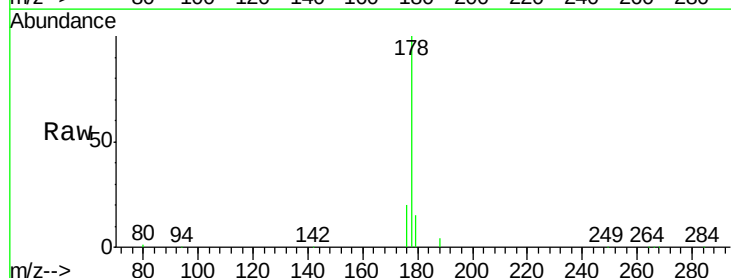
Manual Integrations
APPROVED

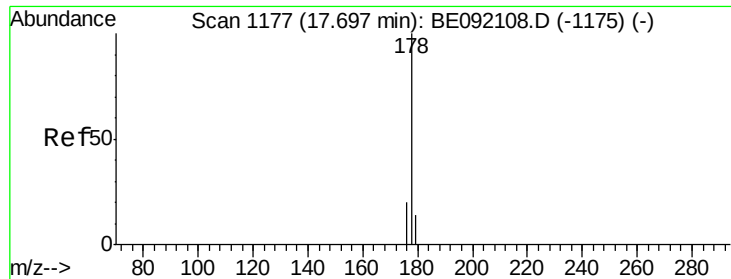
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#19
Phenanthrene
Concen: 2.43 ng
RT: 17.60 min Scan# 1173
Delta R.T. 0.00 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.6	15.4	23.0
179	15.4	12.7	19.1





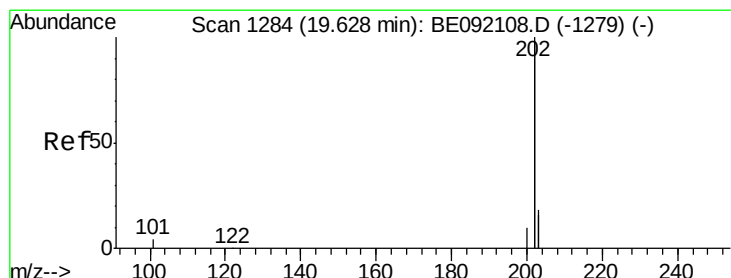
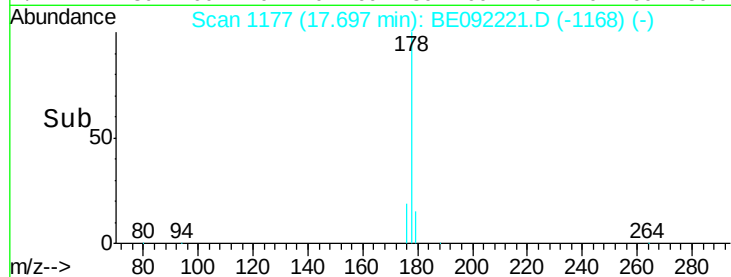
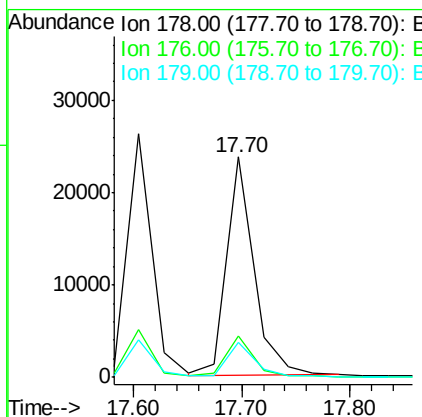
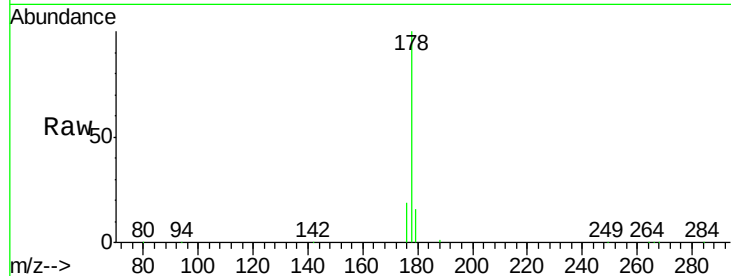
#20
 Anthracene
 Concen: 2.47 ng
 RT: 17.70 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: BE092221.D
 Acq: 8 Aug 2016 18:20

Instrument :
 BNA_E
 ClientSampleId :
 9548

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.2	22.8
179	15.5	12.2	18.4

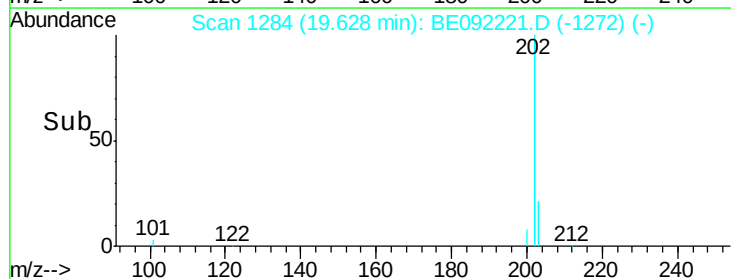
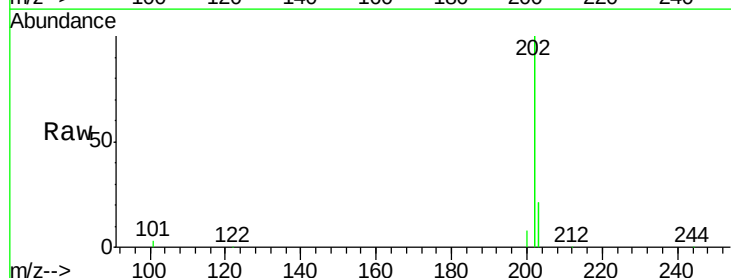
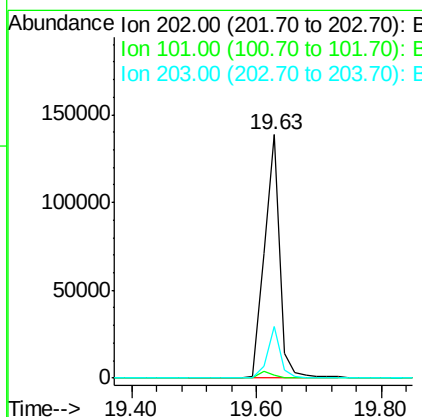
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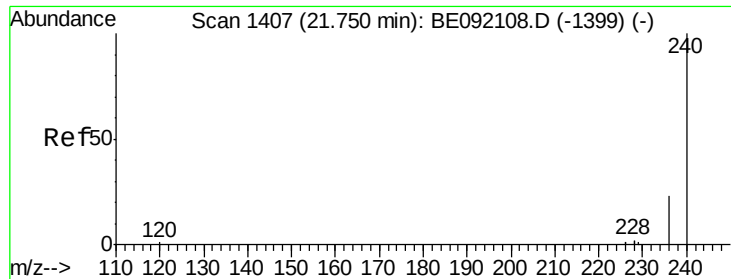
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#21
 Fluoranthene
 Concen: 3.05 ng
 RT: 19.63 min Scan# 1284
 Delta R.T. -0.00 min
 Lab File: BE092221.D
 Acq: 8 Aug 2016 18:20

Tgt Ion	Ratio	Lower	Upper
202	100		
101	2.9	2.2	3.2
203	18.0	13.0	19.4





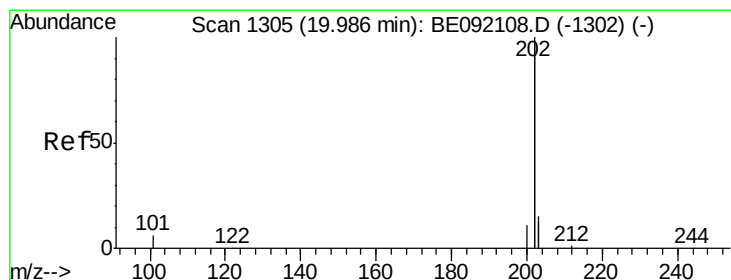
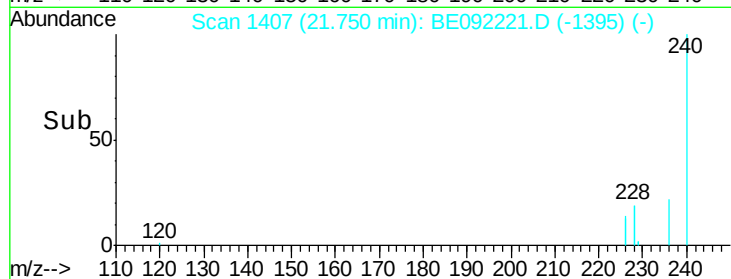
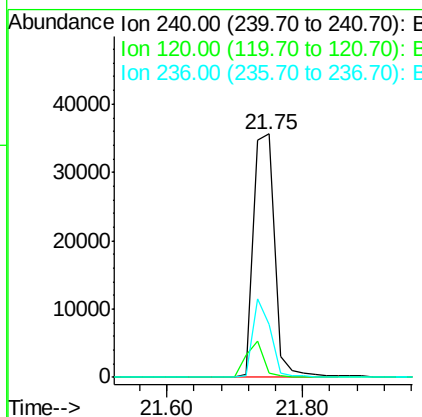
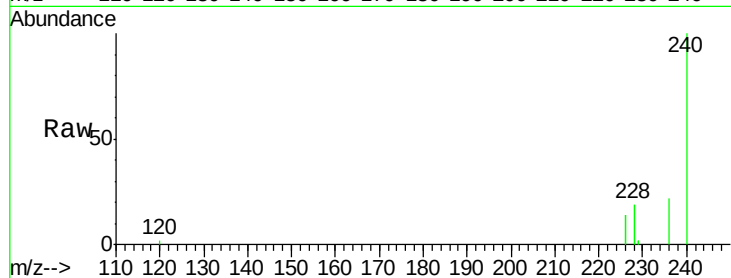
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.75 min Scan# 1407
Delta R.T. 0.00 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

Instrument :
BNA_E
ClientSampleId :
9548

Tgt Ion	Ratio	Lower	Upper
240	100		
120	1.5	0.6	1.0
236	21.9	18.2	27.4

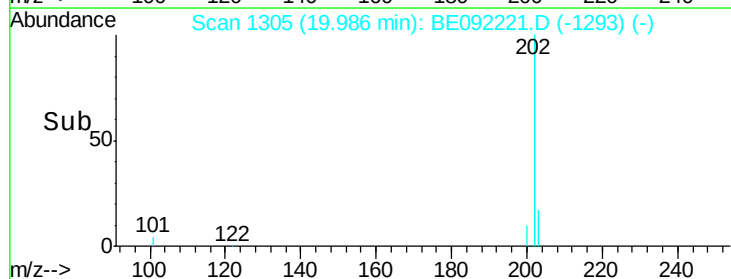
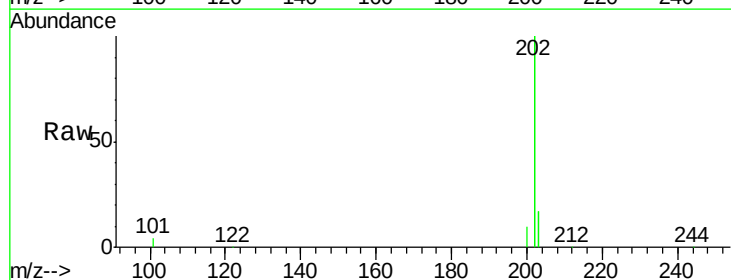
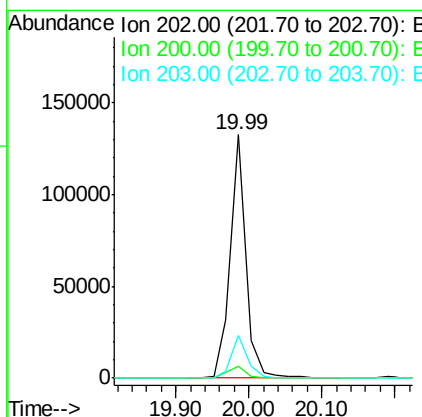
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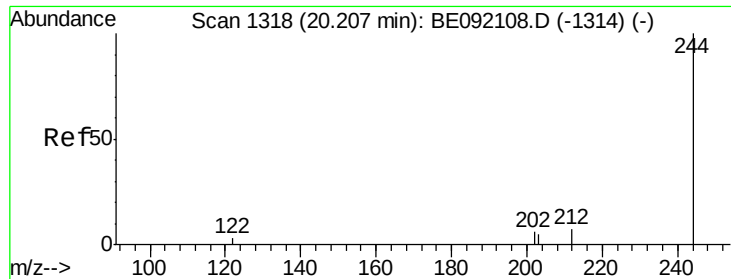
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#23
Pyrene
Concen: 2.41 ng
RT: 19.99 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.4	6.6
203	17.8	13.4	20.0





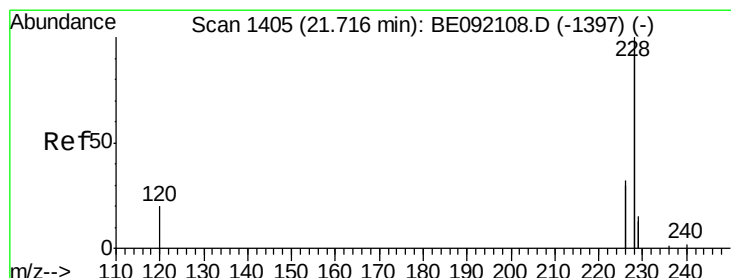
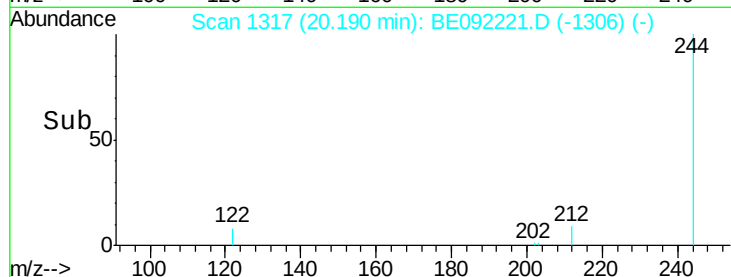
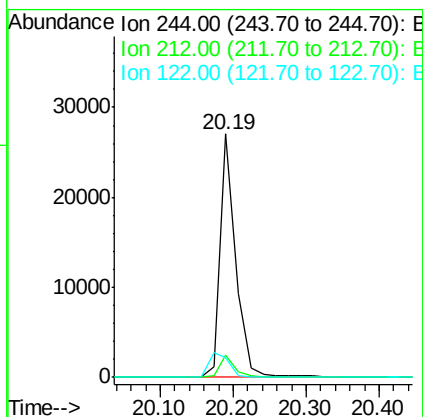
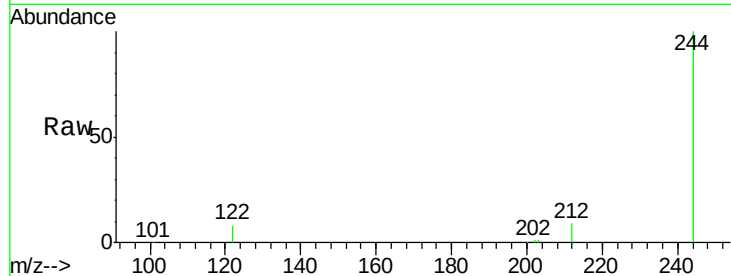
#24
 Terphenyl-d14
 Concen: 3.65 ng
 RT: 20.19 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BE092221.D
 Acq: 8 Aug 2016 18:20

Instrument :
 BNA_E
 ClientSampleId :
 9548

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	9.0	9.1	13.7#
122	8.0	11.0	16.4#

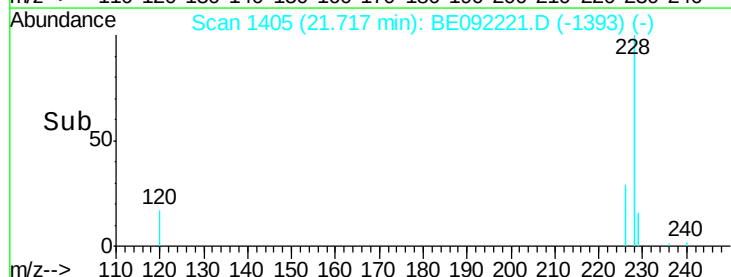
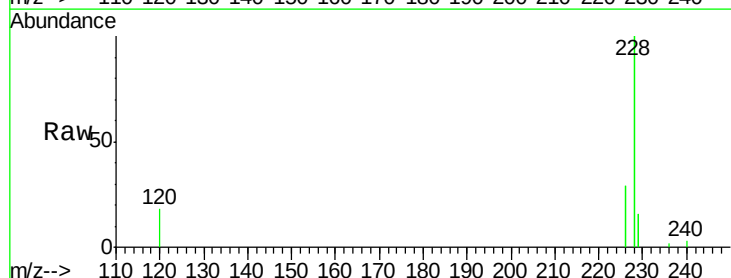
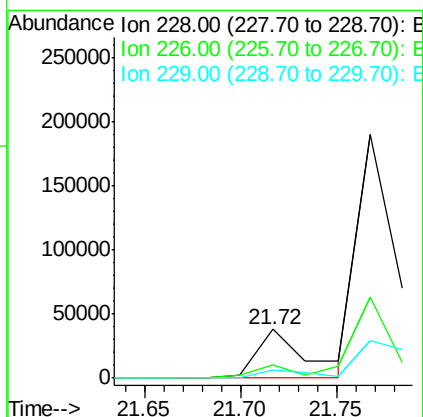
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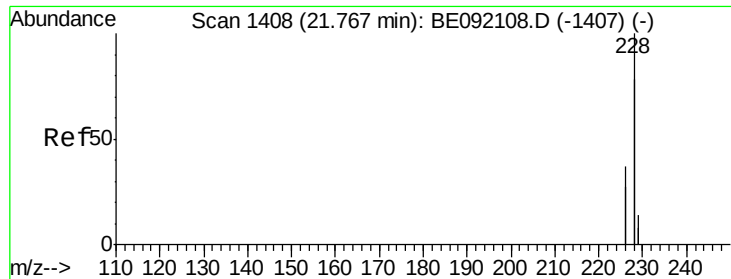
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#25
 Benzo(a)anthracene
 Concen: 0.81 ng m
 RT: 21.72 min Scan# 1405
 Delta R.T. 0.00 min
 Lab File: BE092221.D
 Acq: 8 Aug 2016 18:20

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	28.6	22.1	33.1
229	16.5	15.1	22.7





#26

Chrysene

Concen: 3.28 ng m

RT: 21.77 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Instrument :

BNA_E

ClientSampled :

9548

Tgt Ion: 228 Resp: 278408

Ion Ratio Lower Upper

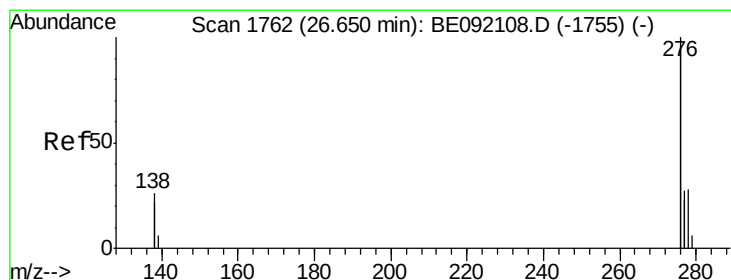
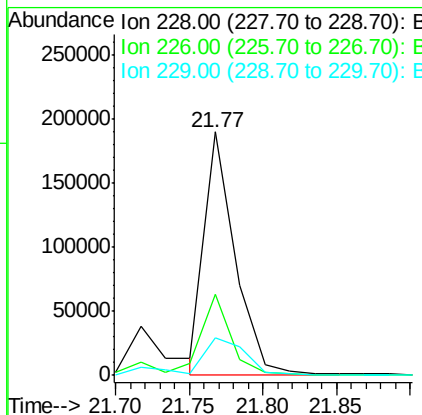
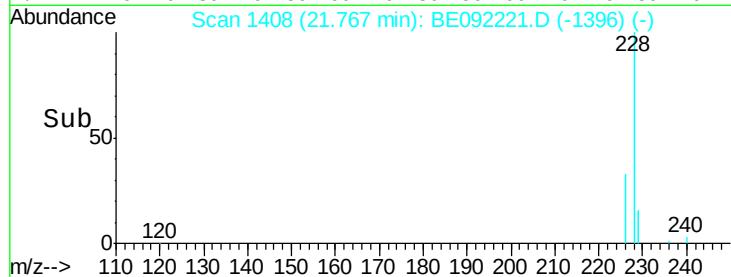
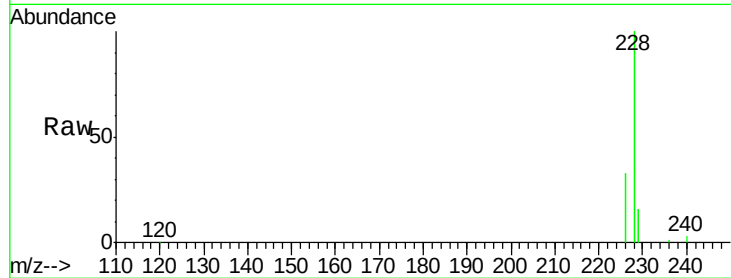
228 100

226 33.5 22.3 33.5

229 15.6 16.9 25.3#

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#27

Indeno(1,2,3-cd)pyrene

Concen: 2.52 ng

RT: 26.63 min Scan# 1760

Delta R.T. -0.02 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

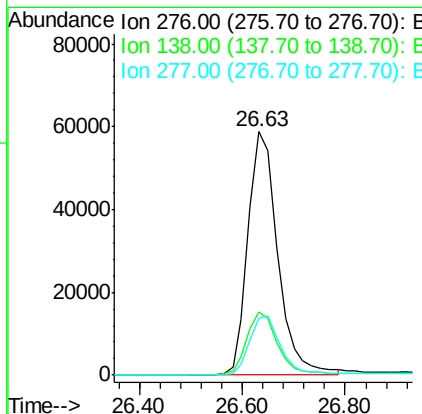
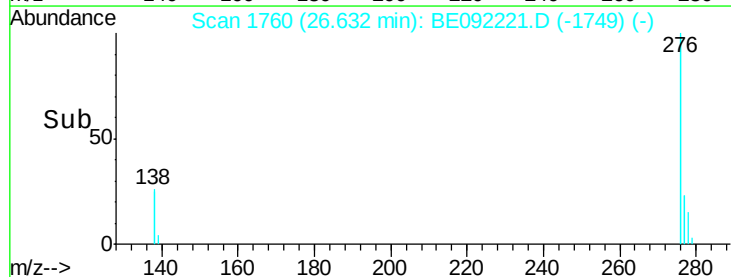
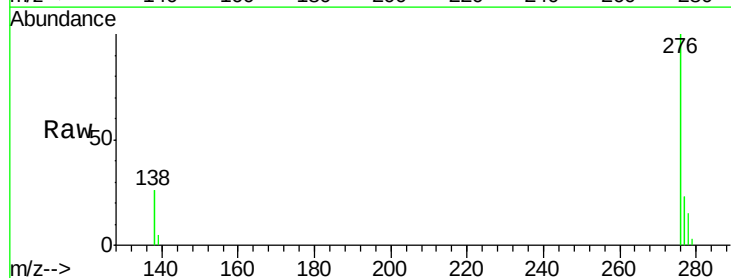
Tgt Ion: 276 Resp: 232418

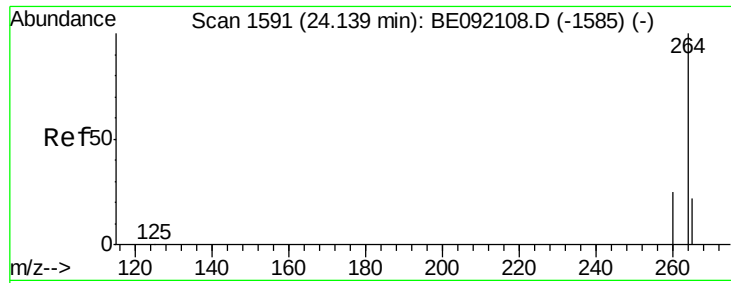
Ion Ratio Lower Upper

276 100

138 26.2 21.2 31.8

277 24.7 19.8 29.8





#28

Perylene-d12

Concen: 5.00 ng

RT: 24.14 min Scan# 1591

Delta R.T. 0.00 min

Lab File: BE092221.D

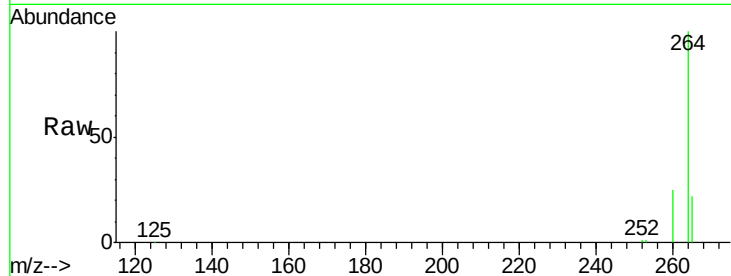
Acq: 8 Aug 2016 18:20

Instrument :

BNA_E

ClientSampleId :

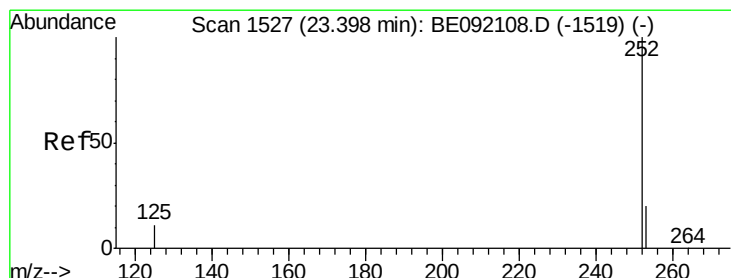
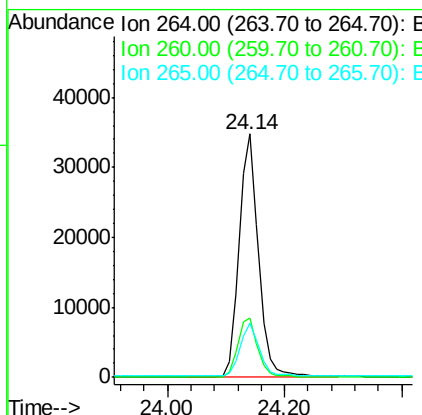
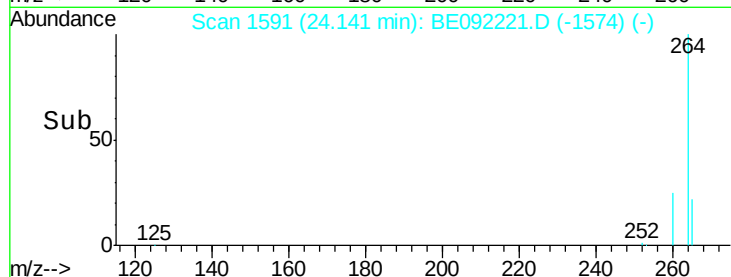
9548



Tgt Ion:	264	Resp:	79139
Ion Ratio	Lower	Upper	
264	100		
260	24.6	20.8	31.2
265	22.4	16.6	25.0

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#29

Benzo(b)fluoranthene

Concen: 2.28 ng m

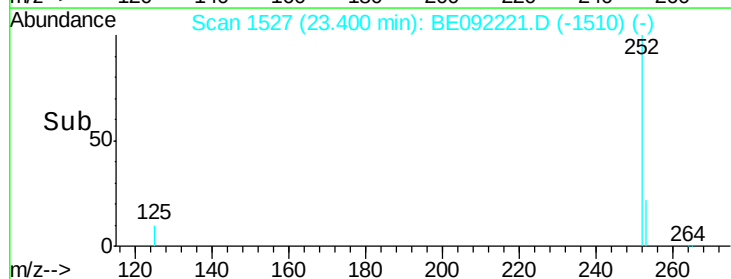
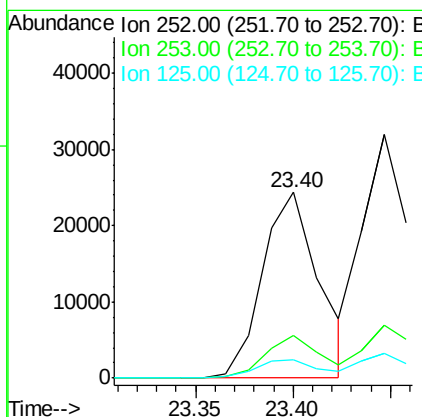
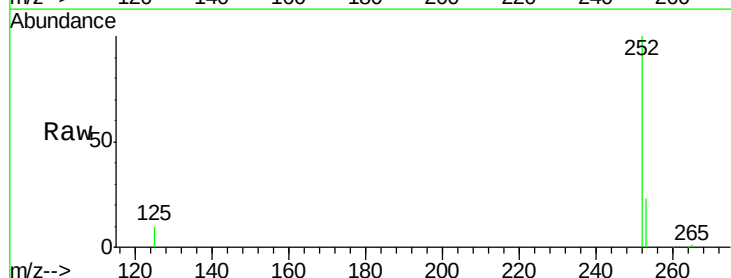
RT: 23.40 min Scan# 1527

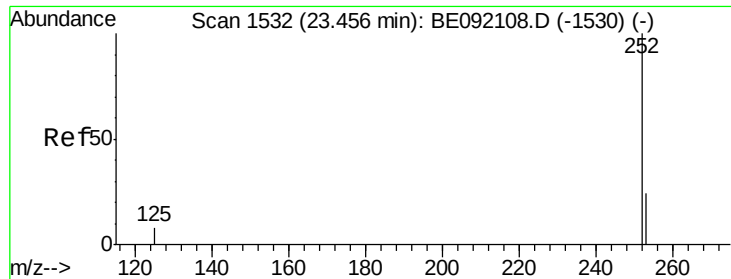
Delta R.T. 0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Tgt Ion:	252	Resp:	49357
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.4	26.0
125	9.9	10.2	15.2#





#30

Benzo(k)fluoranthene

Concen: 2.75 ng

RT: 23.45 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

Instrument :

BNA_E

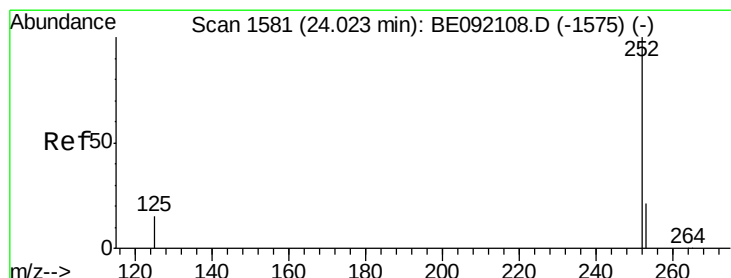
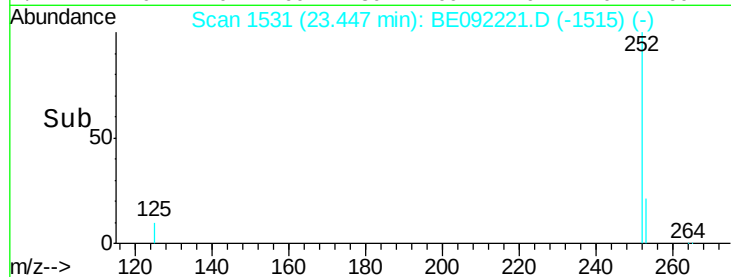
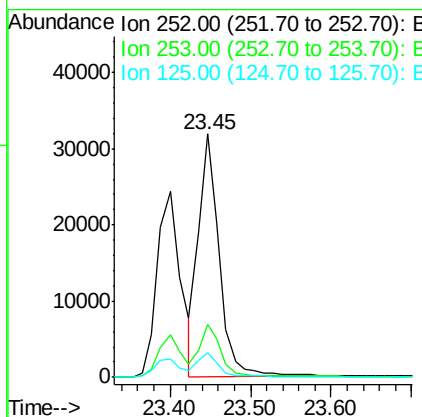
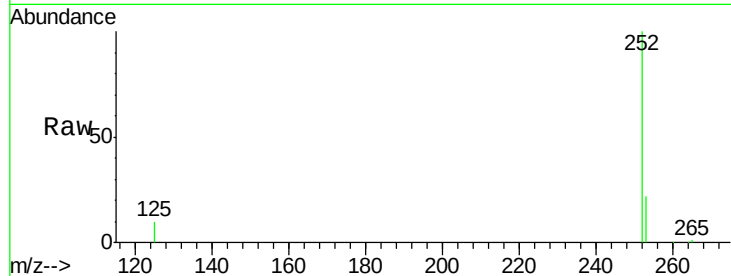
ClientSampleId :

9548

Tgt Ion:	252	Resp:	57040
Ion Ratio	Lower	Upper	
252	100		
253	21.8	19.4	29.0
125	10.4	8.9	13.3

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#31

Benzo(a)pyrene

Concen: 0.76 ng

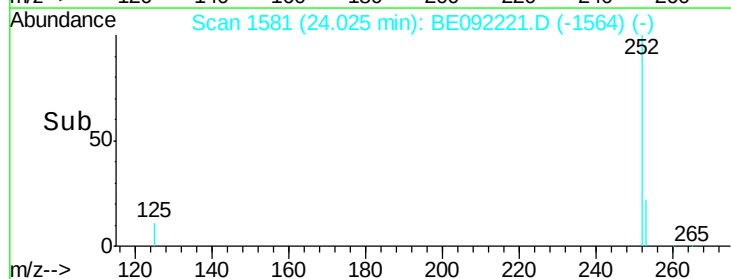
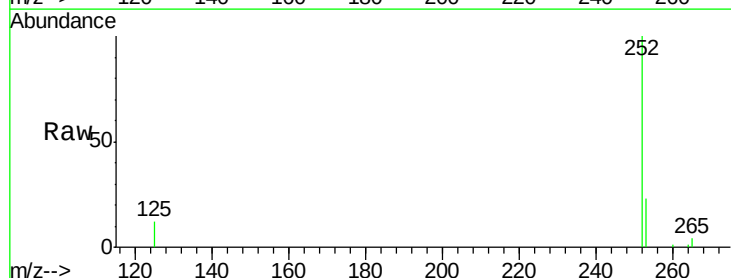
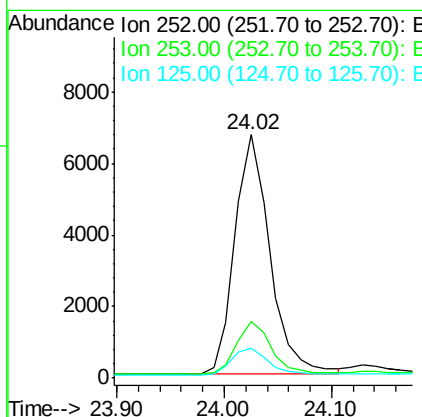
RT: 24.02 min Scan# 1581

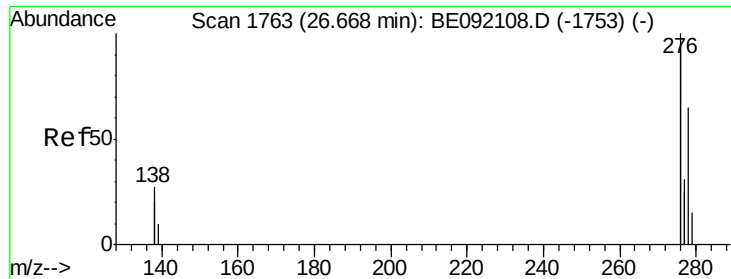
Delta R.T. 0.00 min

Lab File: BE092221.D

Acq: 8 Aug 2016 18:20

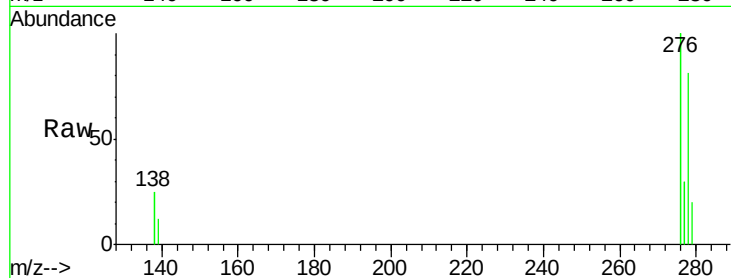
Tgt Ion:	252	Resp:	15214
Ion Ratio	Lower	Upper	
252	100		
253	23.1	19.8	29.8
125	12.3	10.4	15.6





#32
Dibenzo(a,h)anthracene
Concen: 2.33 ng
RT: 26.67 min Scan# 1762
Delta R.T. -0.00 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

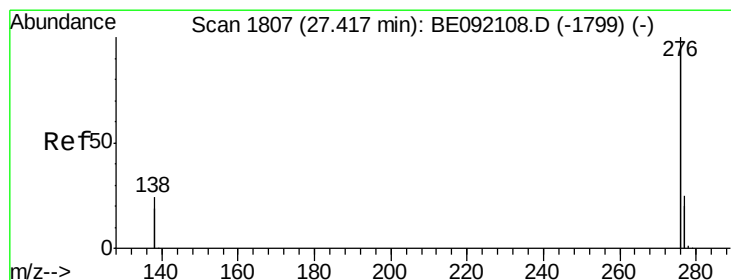
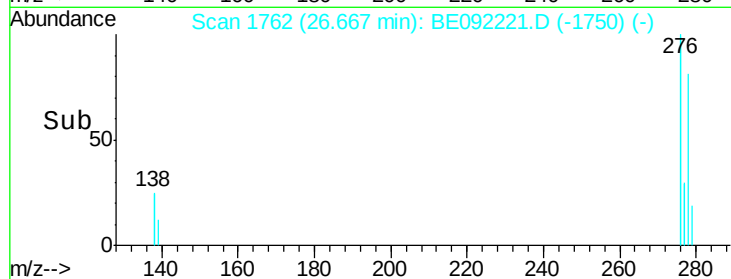
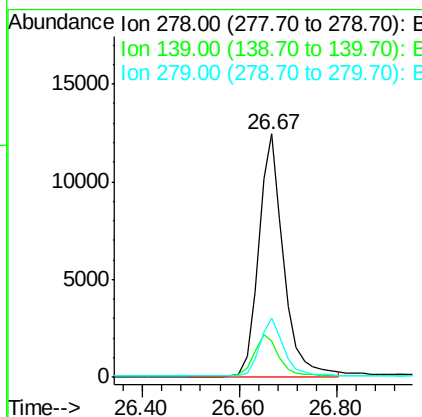
Instrument :
BNA_E
ClientSampleId :
9548



Tgt Ion: 278 Resp: 44285
Ion Ratio Lower Upper
278 100
139 14.7 16.7 25.1#
279 24.4 20.3 30.5

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#33
Benzo(g,h,i)perylene
Concen: 0.67 ng
RT: 27.42 min Scan# 1806
Delta R.T. -0.00 min
Lab File: BE092221.D
Acq: 8 Aug 2016 18:20

Tgt Ion: 276 Resp: 54366
Ion Ratio Lower Upper
276 100
277 24.2 19.5 29.3
138 23.0 20.8 31.2

