

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE112316\
 Data File : BE092574.D
 Acq On : 23 Nov 2016 11:40
 Operator : UM/SJ
 Sample : PB94794BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB94794BSD

Manual Integrations
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Quant Time: Nov 23 16:03:44 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE111616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 16 15:43:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	9627	5.00	ng	-0.02
7) Naphthalene-d8	10.93	136	43183	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	27334	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	49335	5.00	ng	0.00
24) Chrysene-d12	21.72	240	66159	5.00	ng	0.00
31) Perylene-d12	24.08	264	55893	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	17627	10.84	ng	-0.02
5) Phenol-d6	7.31	99	26152	9.61	ng	-0.05
8) Nitrobenzene-d5	9.32	82	11895	4.26	ng	-0.05
13) 2,4,6-Tribromophenol	16.28	330	5961	9.72	ng	-0.02
14) 2-Fluorobiphenyl	13.41	172	27760	4.17	ng	-0.02
26) Terphenyl-d14	20.16	244	32750	4.33	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.39	88	4086	3.59	ng	# 52
3) n-Nitrosodimethylamine	3.74	42	6457	4.04	ng	# 96
6) bis(2-Chloroethyl)ether	7.57	93	11362	3.88	ng	# 87
9) Naphthalene	10.97	128	35149	3.94	ng	# 95
10) Hexachlorobutadiene	11.26	225	5238	3.86	ng	100
11) 2-Methylnaphthalene	12.60	142	23430	4.12	ng	93
15) Acenaphthylene	14.51	152	155665	4.09	ng	100
16) Acenaphthene	14.85	154	23550	3.79	ng	93
17) Fluorene	15.84	166	30494	3.96	ng	99
19) Hexachlorobenzene	16.87	284	9549	4.90	ng	# 63
20) Pentachlorophenol	17.21	266	6220	7.03	ng	# 87
21) Phenanthrene	17.58	178	51371	4.65	ng	# 94
22) Anthracene	17.67	178	50732	4.88	ng	98
23) Fluoranthene	19.58	202	207612	4.03	ng	99
25) Pyrene	19.95	202	221991	4.22	ng	99
27) Benzo(a)anthracene	21.70	228	243161m	3.90	ng	
28) Chrysene	21.75	228	218441m	3.88	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	17938	4.20	ng	# 75
30) Indeno(1,2,3-cd)pyrene	26.55	276	281820	4.59	ng	98
32) Benzo(b)fluoranthene	23.35	252	55029	4.06	ng	# 96
33) Benzo(k)fluoranthene	23.39	252	54202	3.82	ng	94
34) Benzo(a)pyrene	23.96	252	53930	4.30	ng	94
35) Dibenzo(a,h)anthracene	26.56	278	58205	4.69	ng	96
36) Benzo(g,h,i)perylene	27.31	276	242784	4.62	ng	98

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

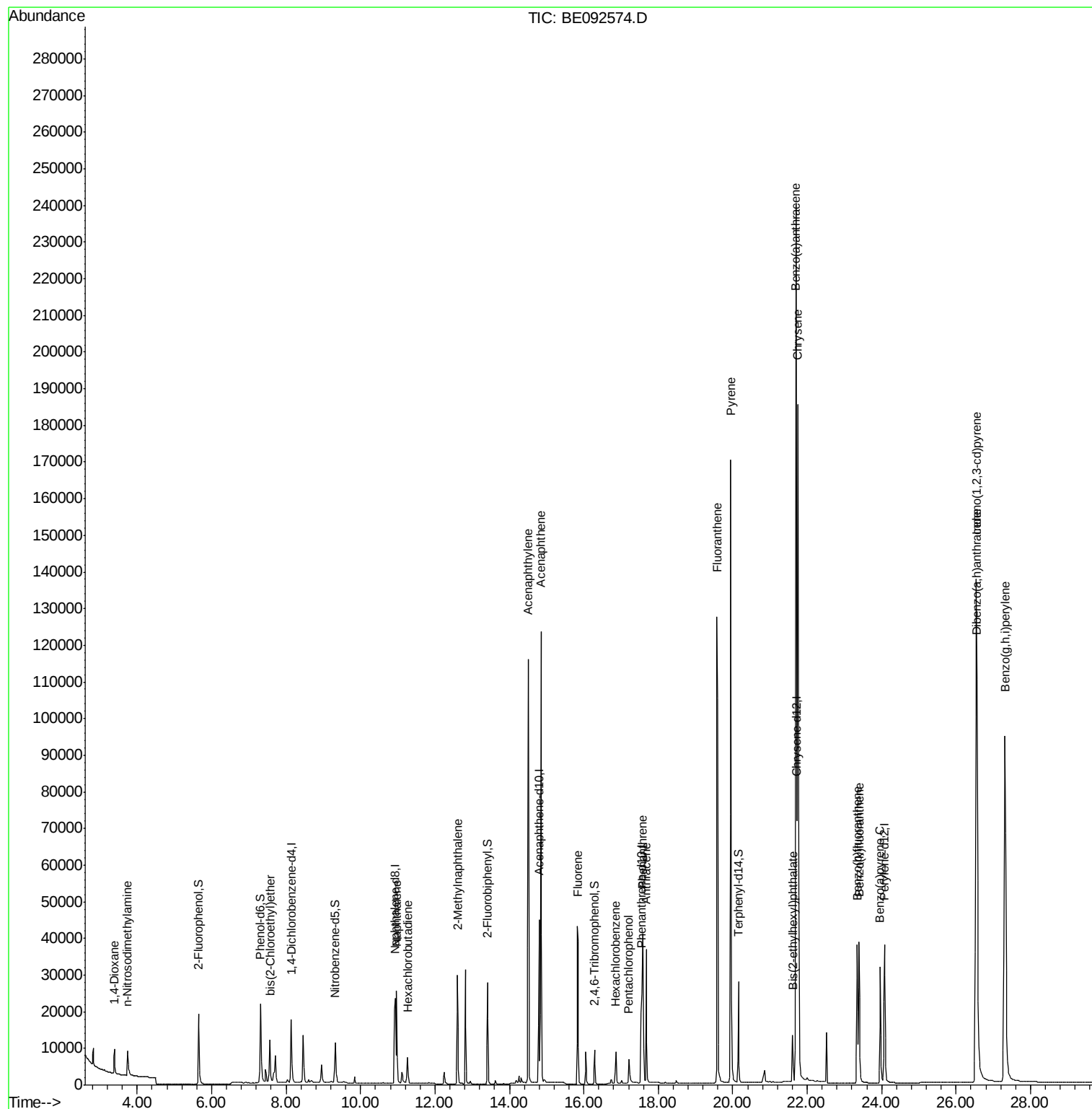
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE112316\
Data File : BE092574.D
Acq On : 23 Nov 2016 11:40
Operator : UM/SJ
Sample : PB94794BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

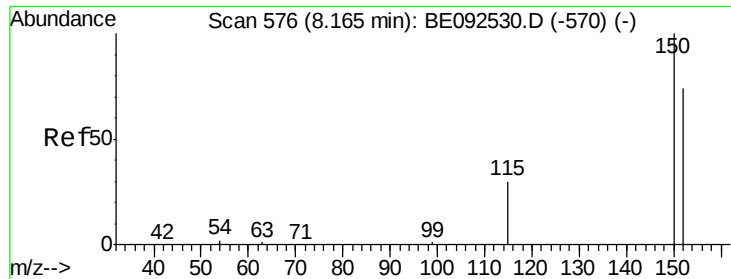
Instrument :
BNA_E
ClientSampleId :
PB94794BSD

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Quant Time: Nov 23 16:03:44 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE111616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 16 15:43:18 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

ClientSampleId :

PB94794BSD

Tgt Ion: 152 Resp: 9627
Ion Ratio Lower Upper

152 100

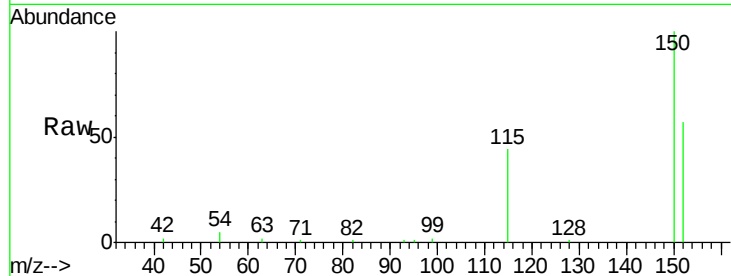
150 174.9 106.0 159.0#

115 77.1 31.2 46.8#

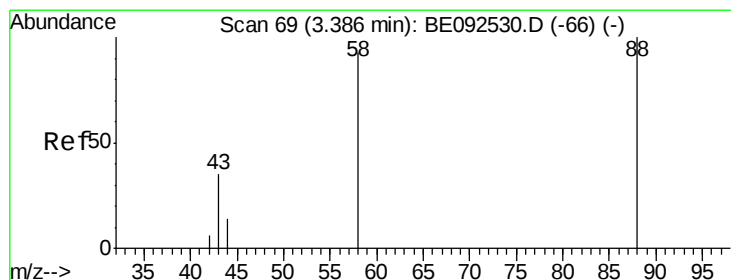
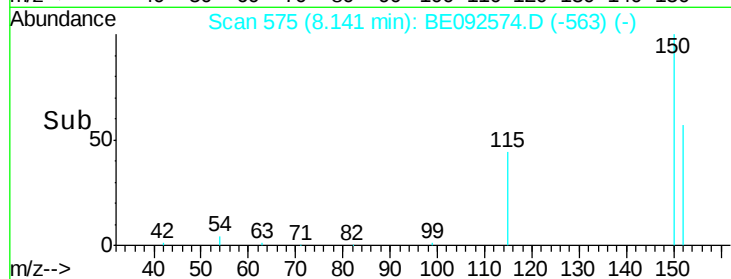
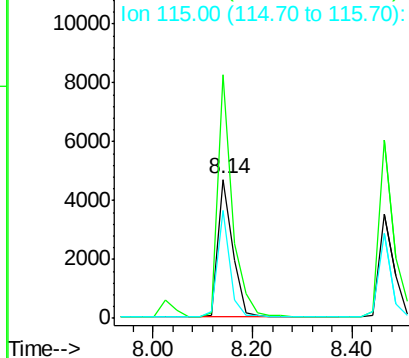
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 3.59 ng

RT: 3.39 min Scan# 69

Delta R.T. 0.00 min

Lab File: BE092574.D

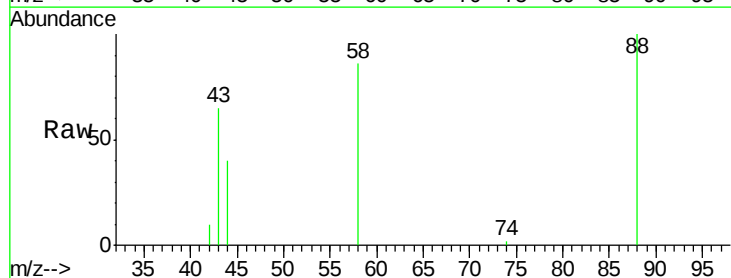
Acq: 23 Nov 2016 11:40

Tgt Ion: 88 Resp: 4086
Ion Ratio Lower Upper

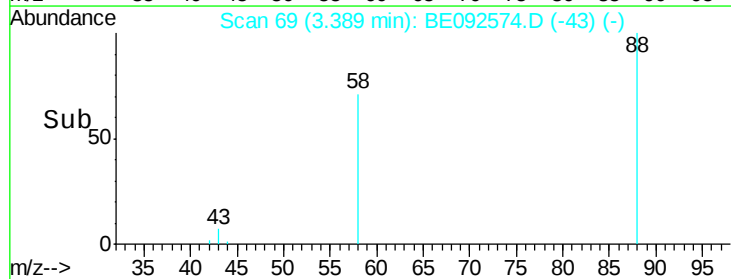
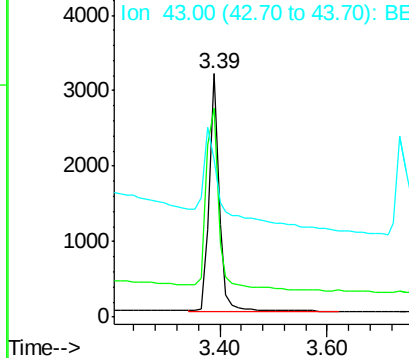
88 100

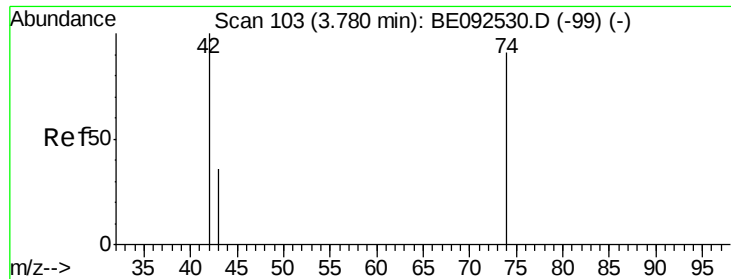
58 100.9 63.6 95.4#

43 94.3 28.0 42.0#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 4.04 ng

RT: 3.74 min Scan# 99

Delta R.T. -0.04 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

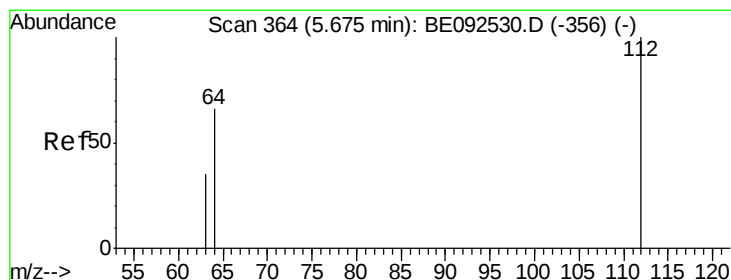
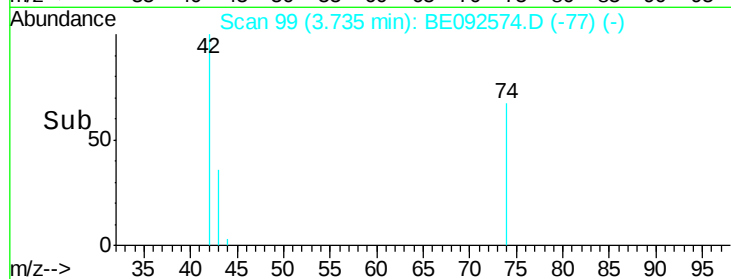
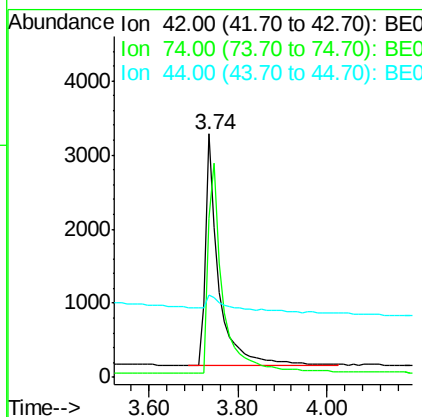
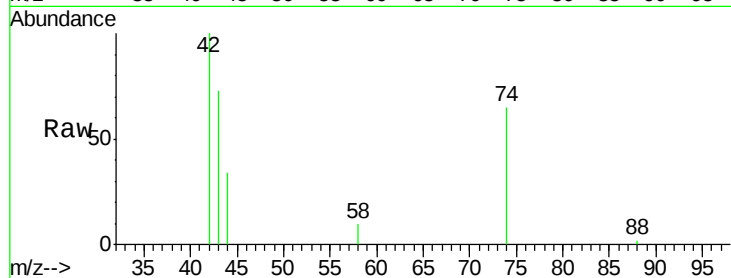
ClientSampleId :

PB94794BSD

Tgt Ion:	42	Resp:	6457
Ion Ratio	Lower	Upper	
42	100		
74	104.9	86.0	129.0
44	14.0	5.1	7.7#

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#4

2-Fluorophenol

Concen: 10.84 ng

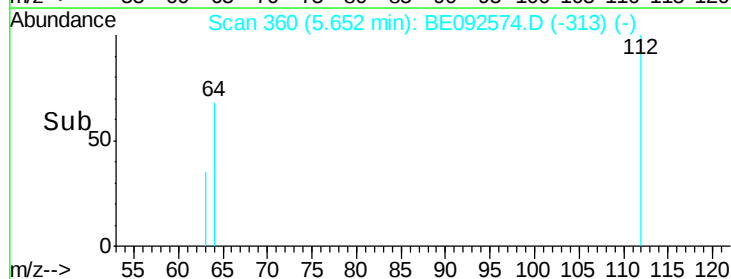
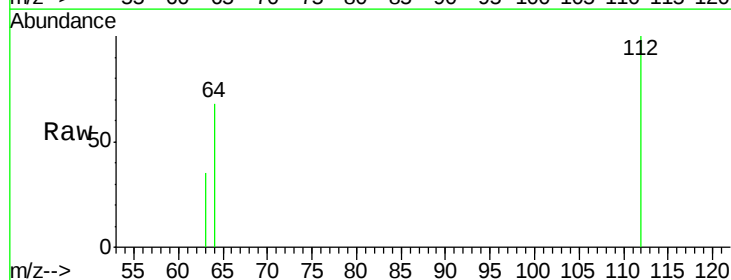
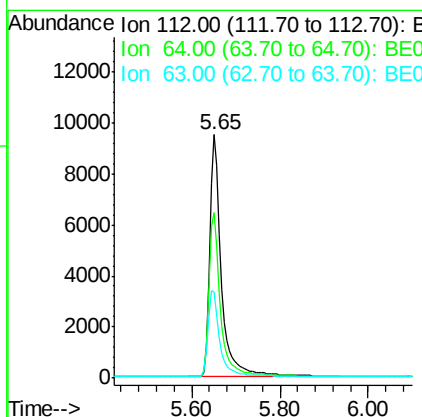
RT: 5.65 min Scan# 360

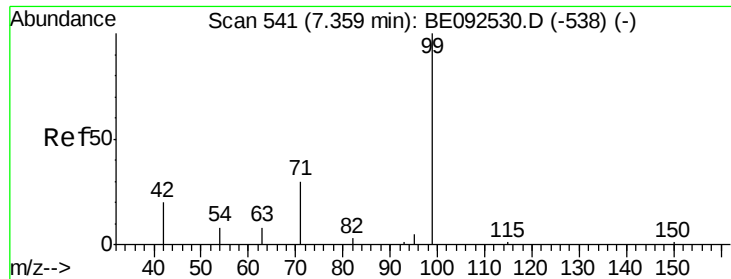
Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Tgt Ion:	112	Resp:	17627
Ion Ratio	Lower	Upper	
112	100		
64	68.6	53.5	80.3
63	36.5	27.9	41.9





#5

Phenol-d6

Concen: 9.61 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.05 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

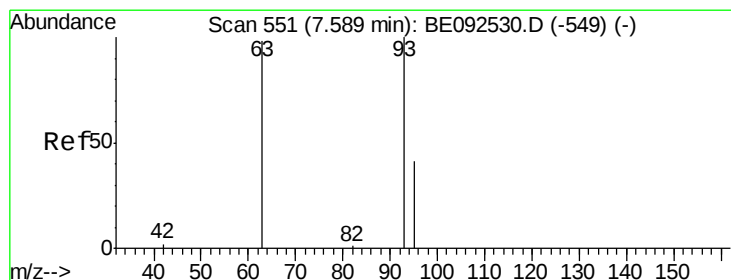
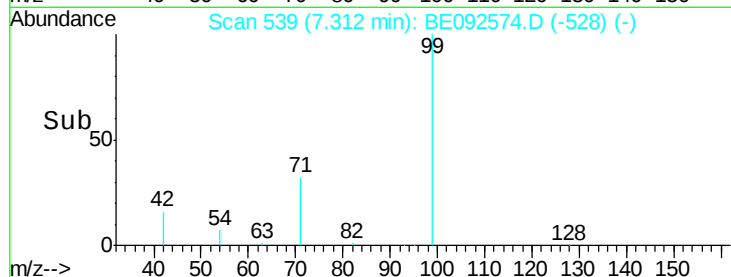
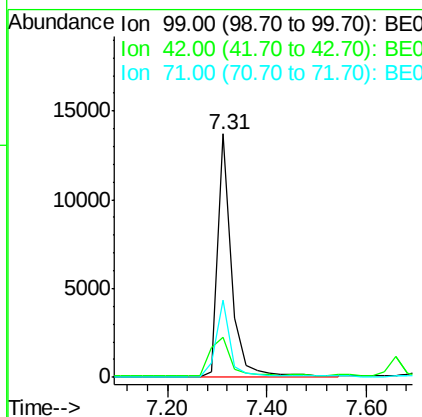
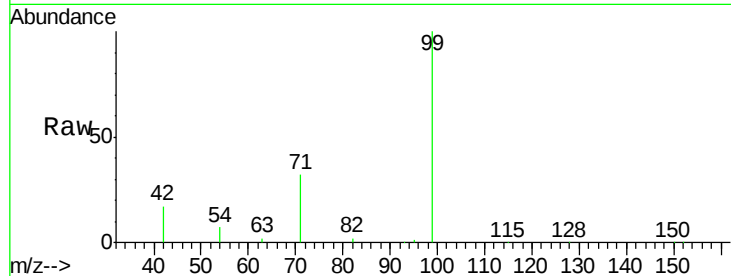
ClientSampleId :

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Tgt Ion:	99	Resp:	26152
Ion Ratio	Lower	Upper	
99	100		
42	23.1	16.0	24.0
71	32.7	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 3.88 ng

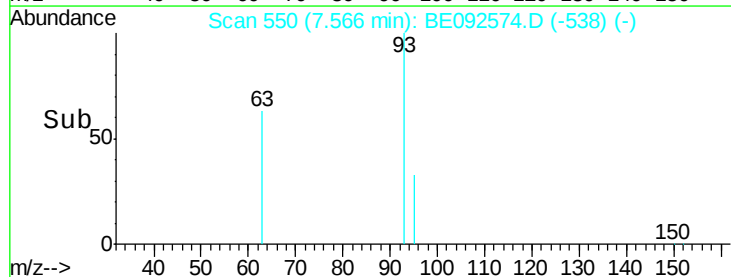
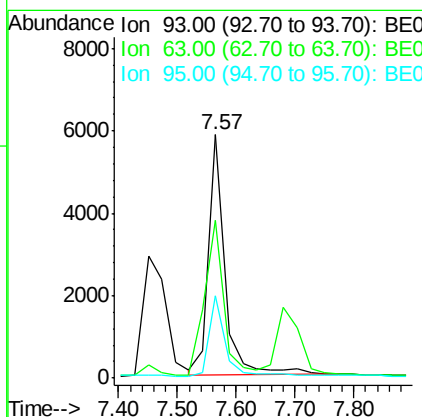
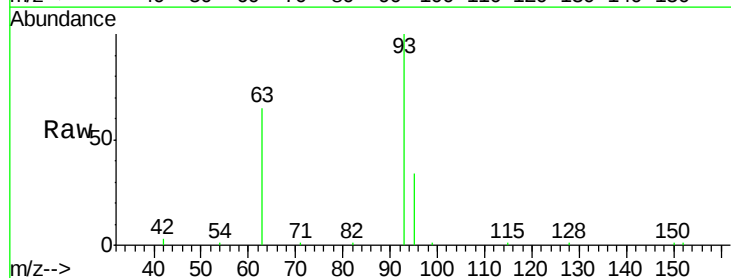
RT: 7.57 min Scan# 550

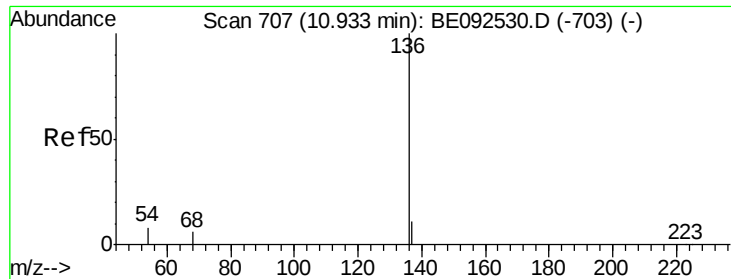
Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Tgt Ion:	93	Resp:	11362
Ion Ratio	Lower	Upper	
93	100		
63	74.9	71.6	107.4
95	32.5	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

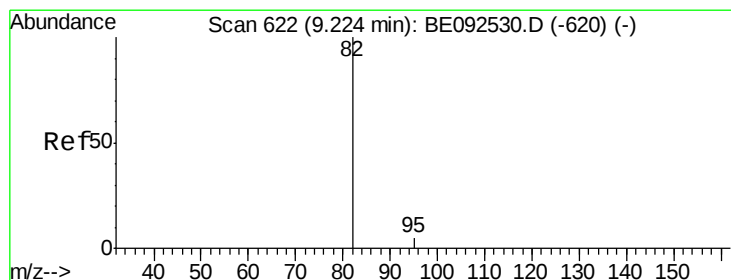
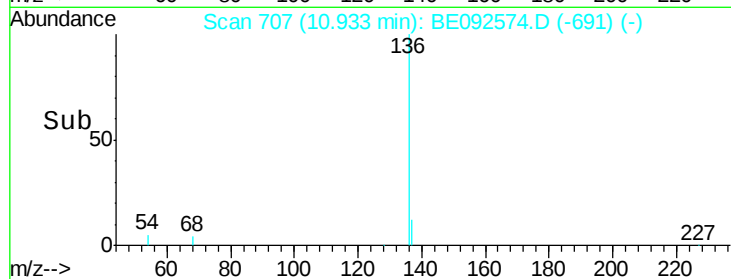
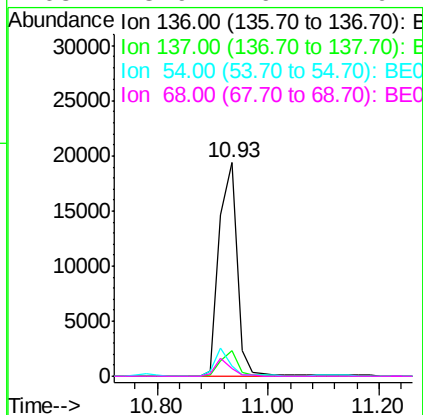
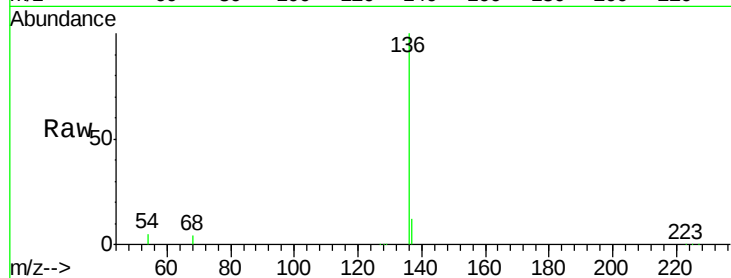
ClientSampleId :

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Tgt Ion	Ratio	Resp	Lower	Upper
136	100	43183		
137	12.0	8.2	12.4	
54	4.8	9.6	14.4	
68	3.9	6.7	10.1	

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#8

Nitrobenzene-d5

Concen: 4.26 ng

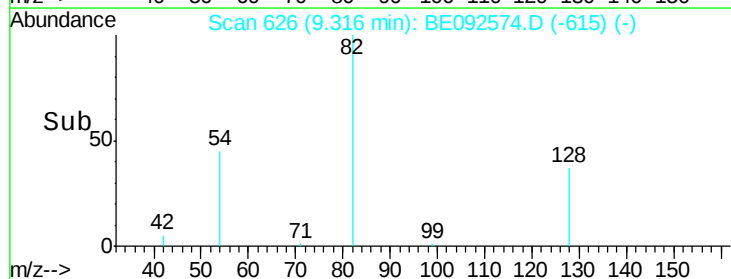
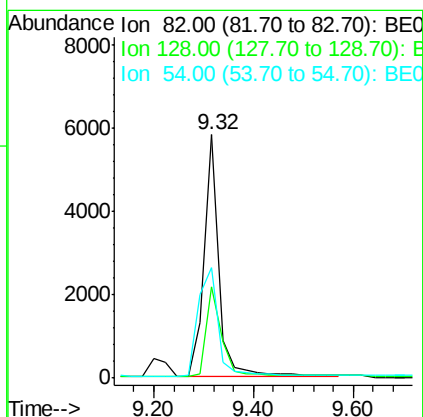
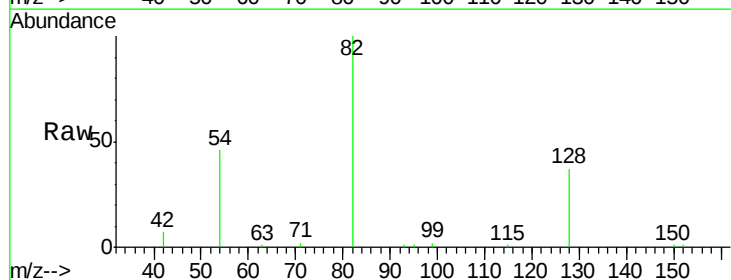
RT: 9.32 min Scan# 626

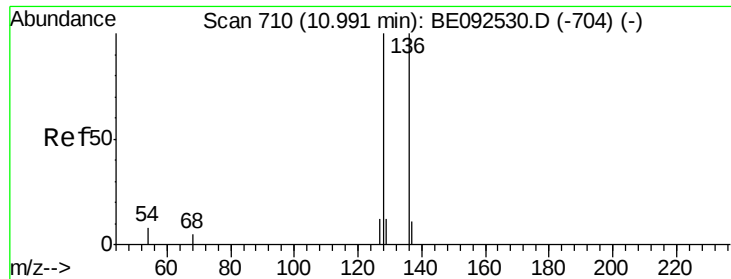
Delta R.T. -0.05 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	11895		
128	37.3	39.0	58.4	
54	45.5	44.8	67.2	





#9

Naphthalene

Concen: 3.94 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

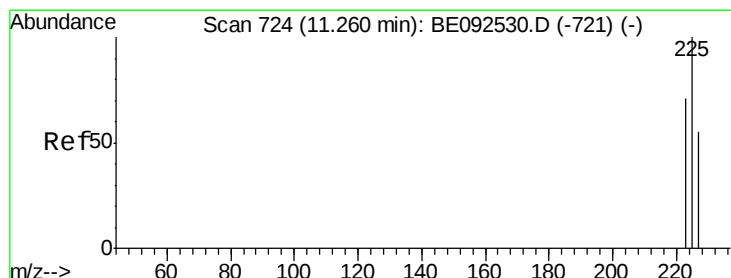
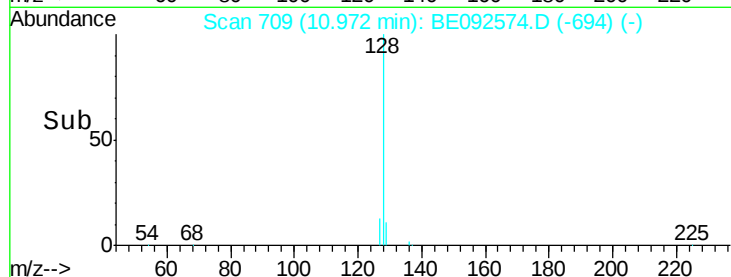
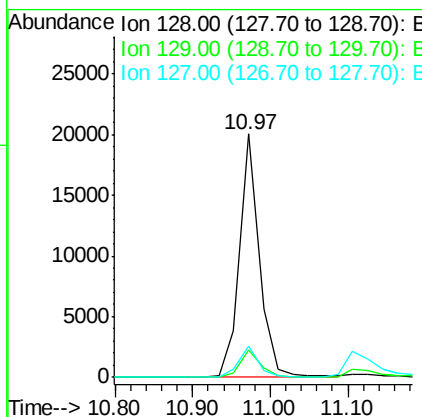
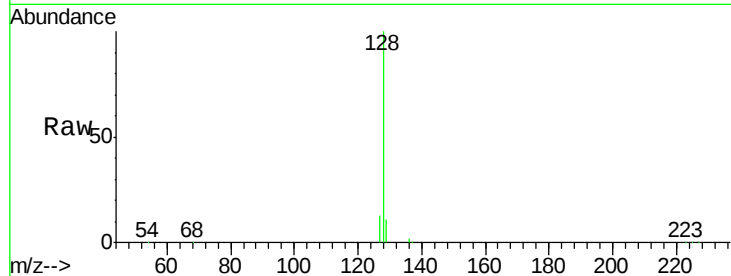
ClientSampleId :

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Tgt Ion:	128	Resp:	35149
Ion Ratio	Lower	Upper	
128	100		
129	11.1	11.2	16.8#
127	13.0	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 3.86 ng

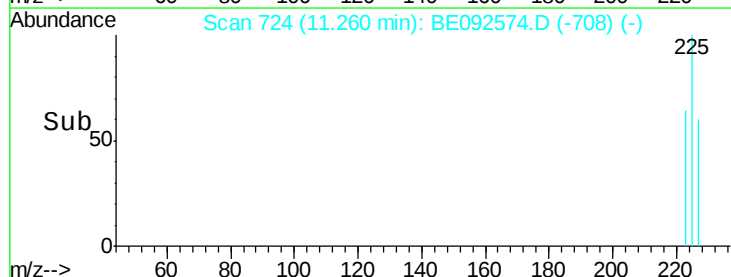
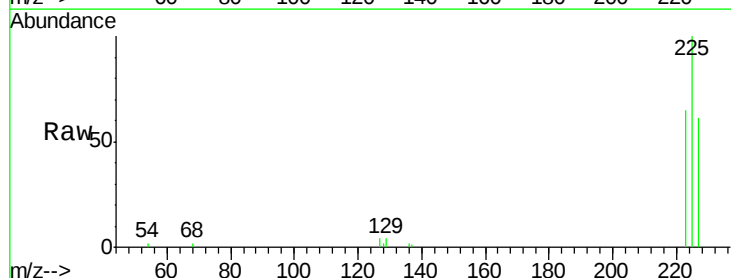
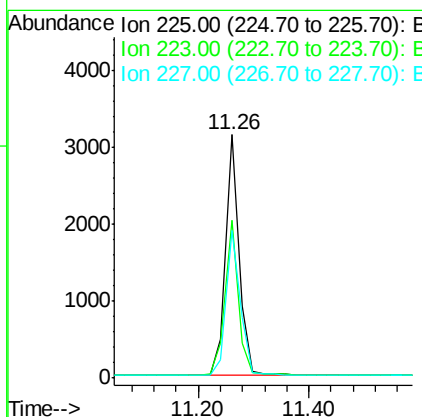
RT: 11.26 min Scan# 724

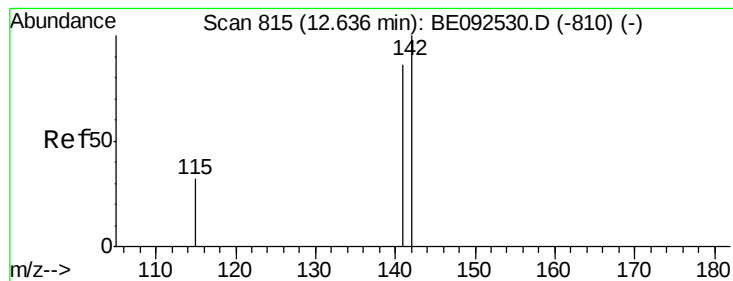
Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Tgt Ion:	225	Resp:	5238
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.6	76.0
227	63.5	51.4	77.0





#11

2-Methylnaphthalene

Concen: 4.12 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

ClientSampleId :

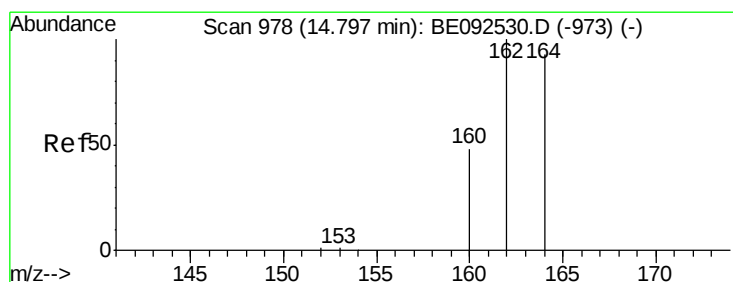
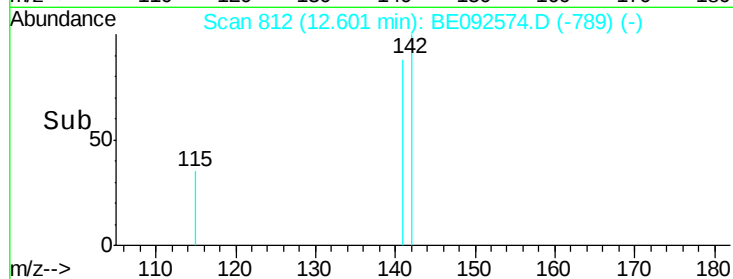
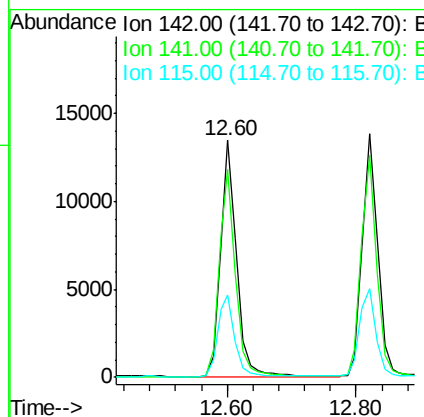
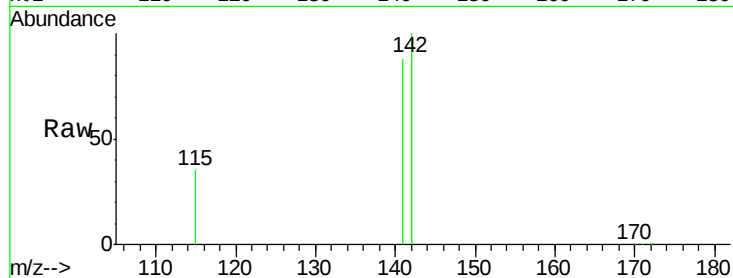
PB94794BSD

Tgt Ion:142 Resp: 23430

Ion	Ratio	Lower	Upper
142	100		
141	87.9	73.7	110.5
115	34.9	34.0	51.0

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 978

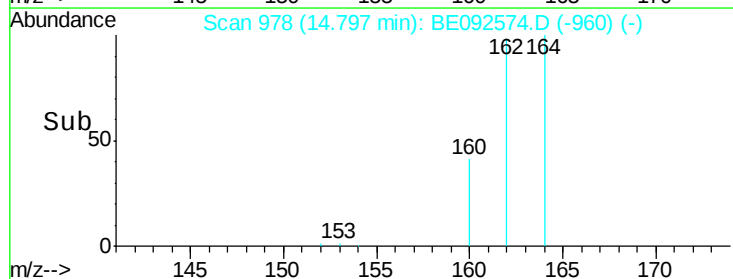
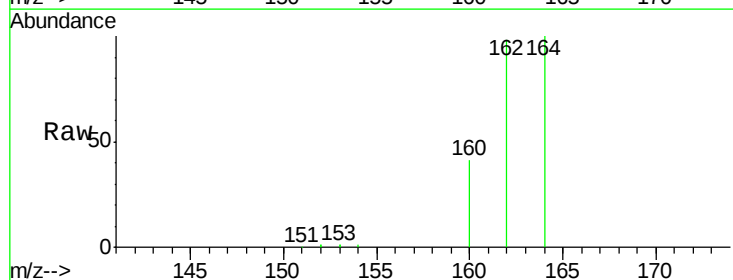
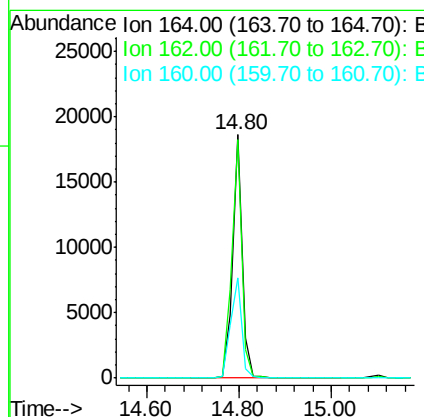
Delta R.T. 0.00 min

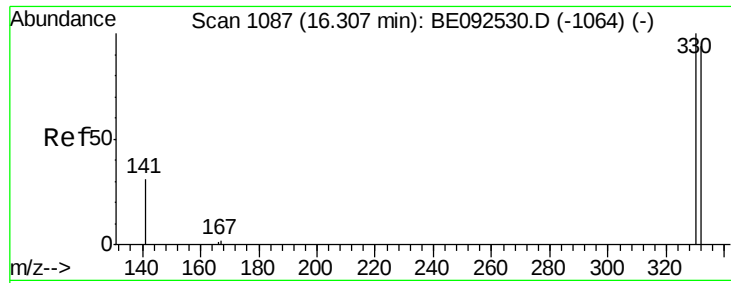
Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Tgt Ion:164 Resp: 27334

Ion	Ratio	Lower	Upper
164	100		
162	97.7	71.4	107.0
160	40.9	27.4	41.2





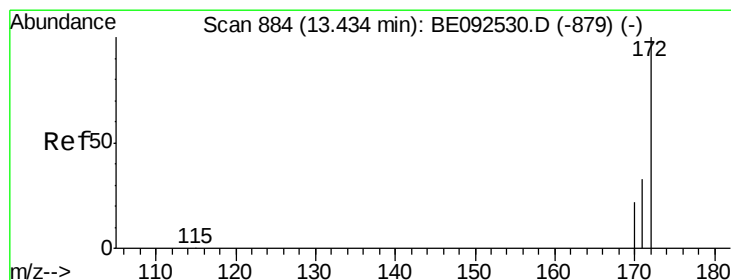
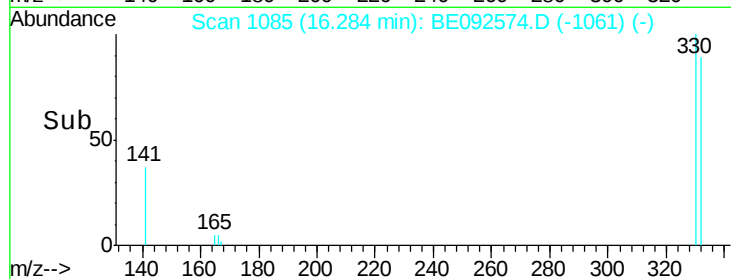
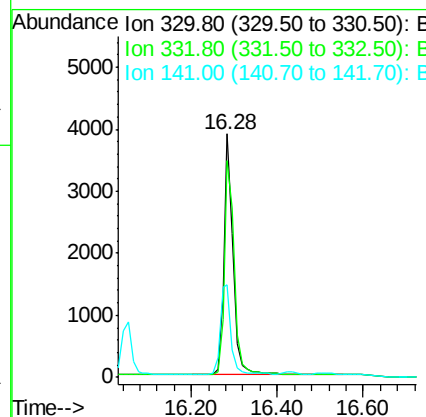
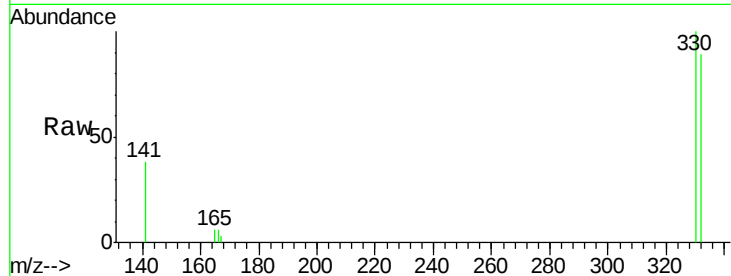
#13
 2,4,6-Tribromophenol
 Concen: 9.72 ng
 RT: 16.28 min Scan# 1085
 Delta R.T. -0.02 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Instrument :
 BNA_E
 ClientSampleId :
 PB94794BSD

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	5961		
332	96.1	75.4	113.0	
141	43.5	31.0	46.6	

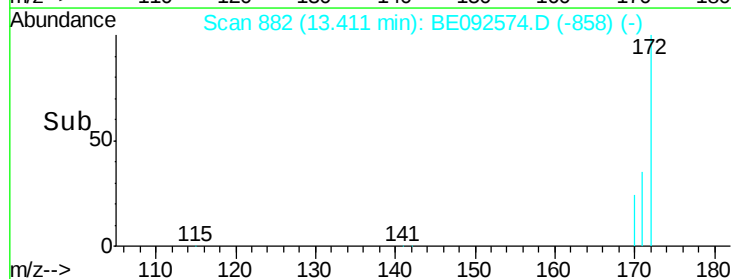
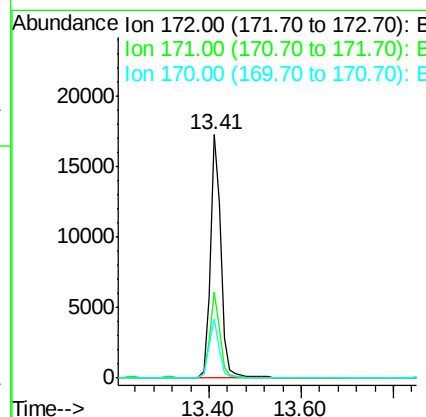
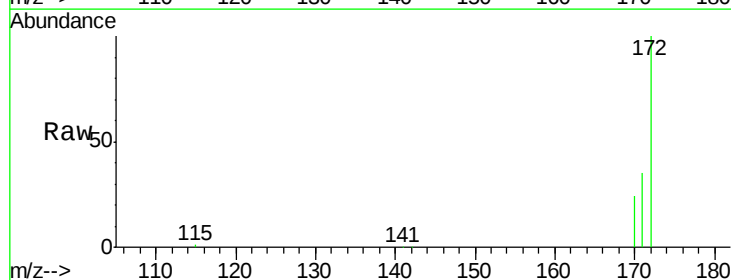
Manual Integrations
 APPROVED

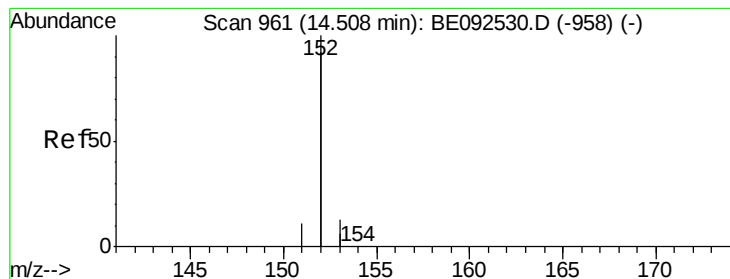
Umangi
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#14
 2-Fluorobiphenyl
 Concen: 4.17 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	27760		
171	35.5	30.1	45.1	
170	24.5	21.8	32.6	





#15

Acenaphthylene

Concen: 4.09 ng

RT: 14.51 min Scan# 961

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

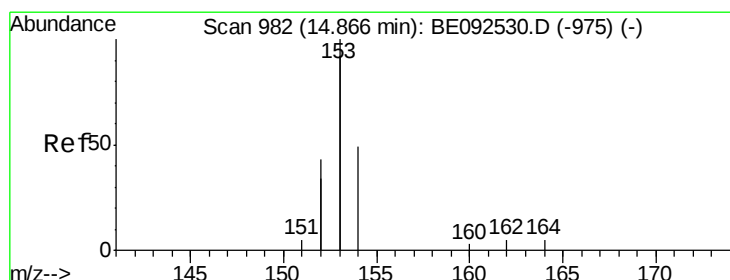
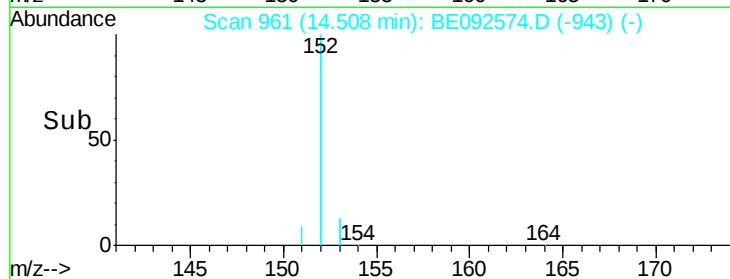
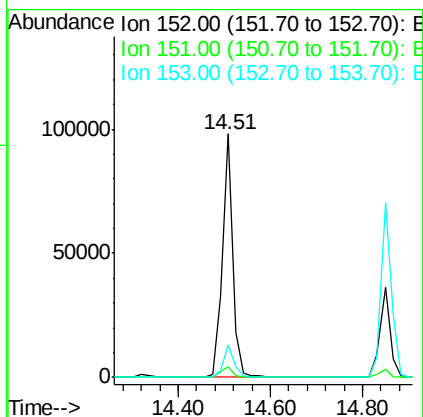
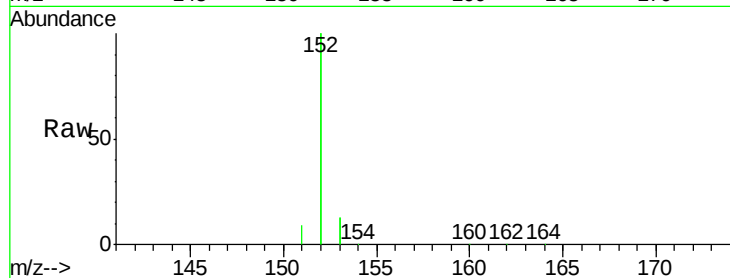
ClientSampleId :

PB94794BSD

Tgt Ion:	152	Resp:	155665
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	13.0	10.4	15.6

Manual Integrations
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#16

Acenaphthene

Concen: 3.79 ng

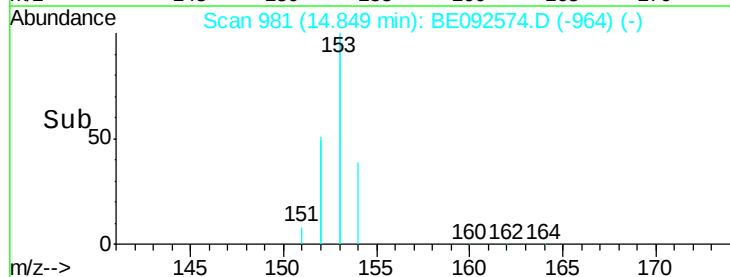
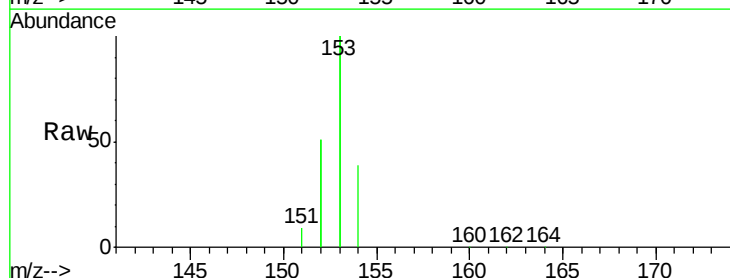
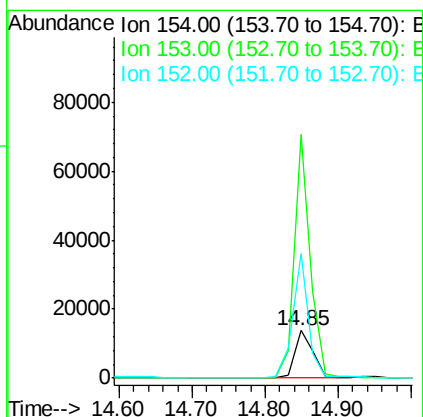
RT: 14.85 min Scan# 981

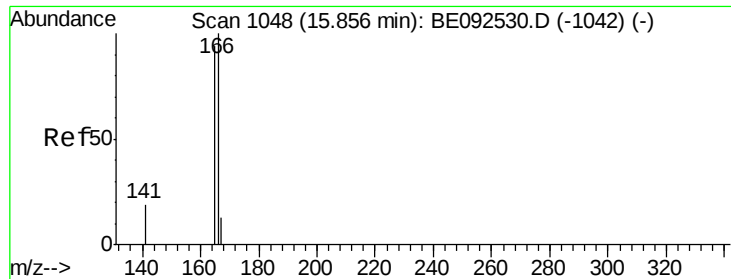
Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Tgt Ion:	154	Resp:	23550
Ion Ratio	Lower	Upper	
154	100		
153	455.1	350.8	526.2
152	227.4	171.1	256.7





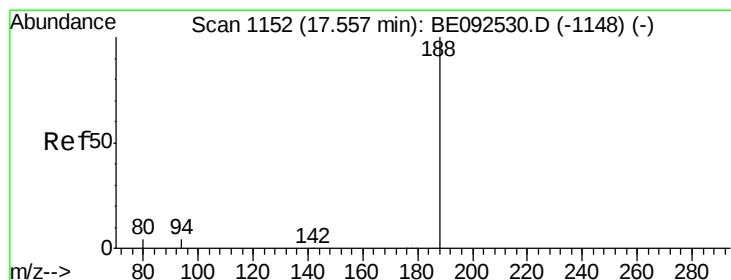
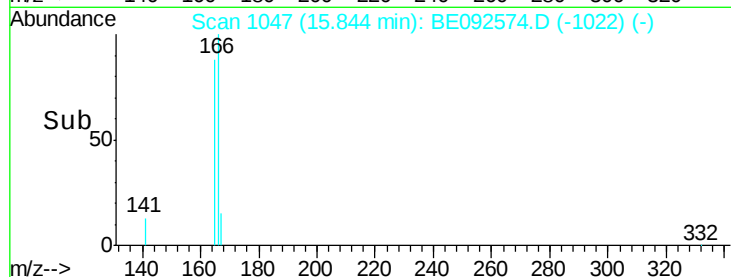
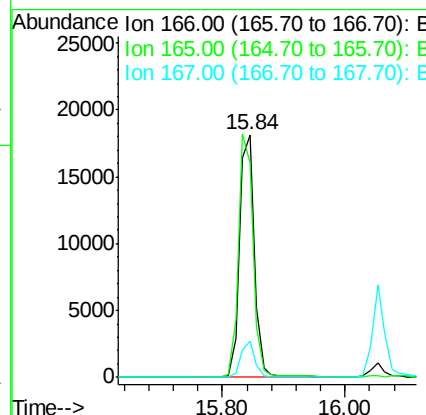
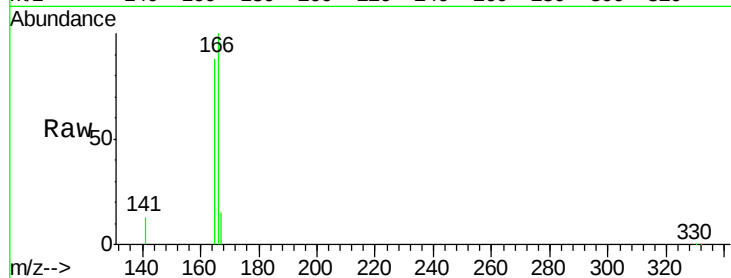
#17
Fluorene
 Concen: 3.96 ng
 RT: 15.84 min Scan# 1047
 Delta R.T. -0.01 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Instrument :
 BNA_E
 ClientSampleId :
 PB94794BSD

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.1	78.2	117.4
167	13.5	11.0	16.4

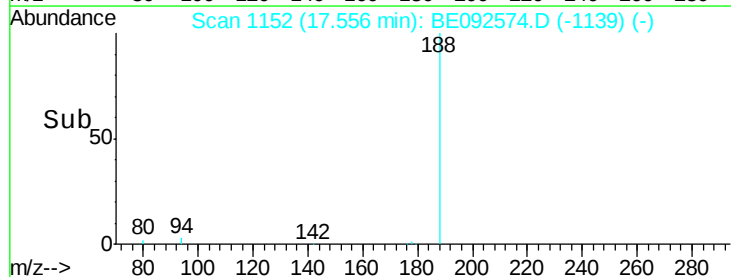
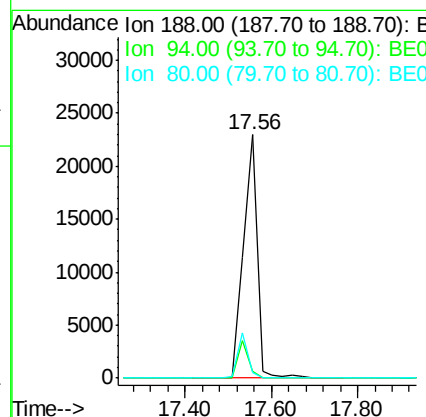
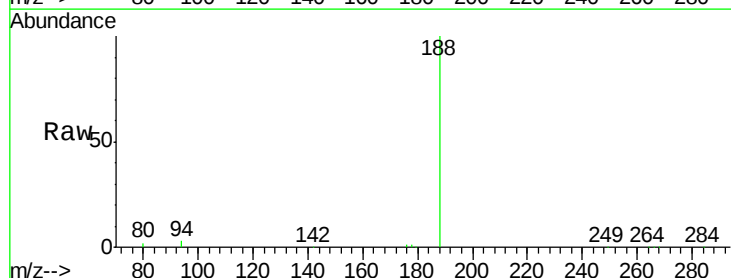
Manual Integrations
 APPROVED

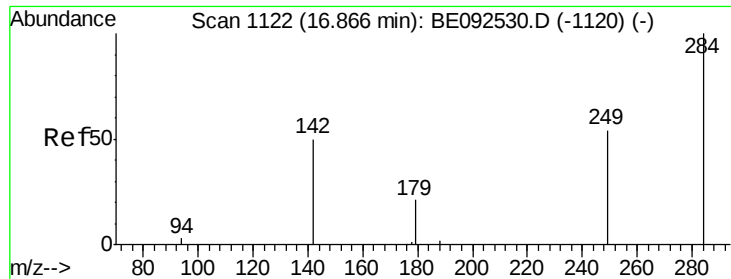
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	3.0	3.2	4.8#
80	2.3	2.6	3.8#





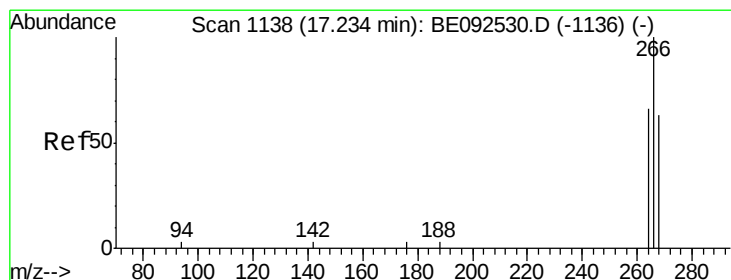
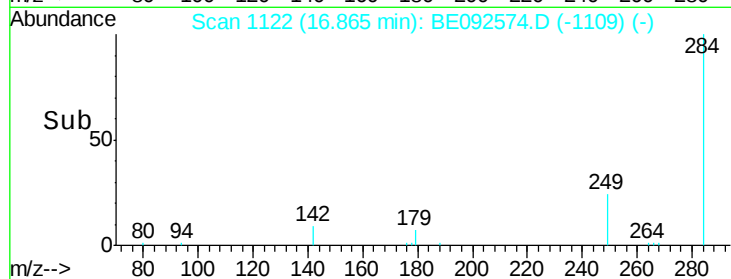
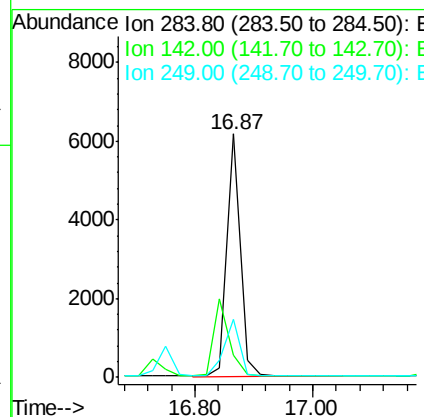
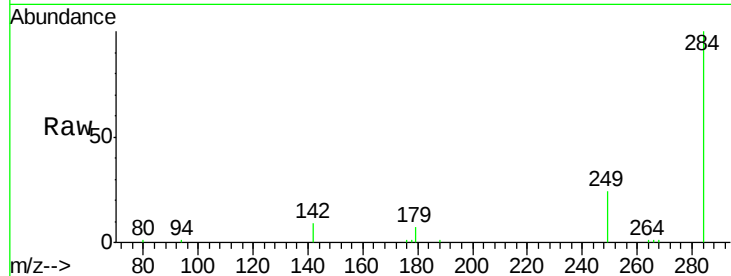
#19
Hexachlorobenzene
Concen: 4.90 ng
RT: 16.87 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BE092574.D
Acq: 23 Nov 2016 11:40

Instrument :
BNA_E
ClientSampleId :
PB94794BSD

Tgt Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	28.3	27.9	41.9

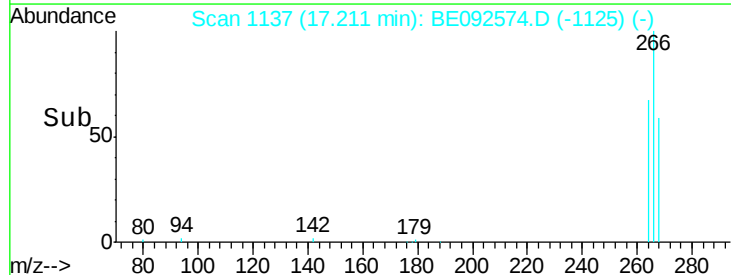
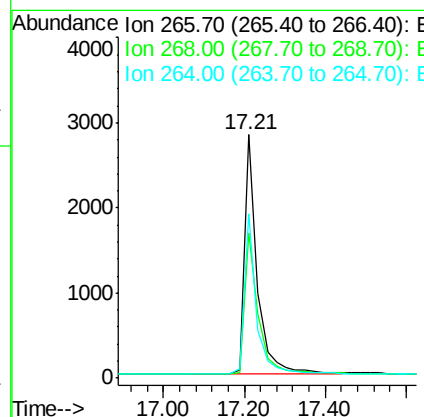
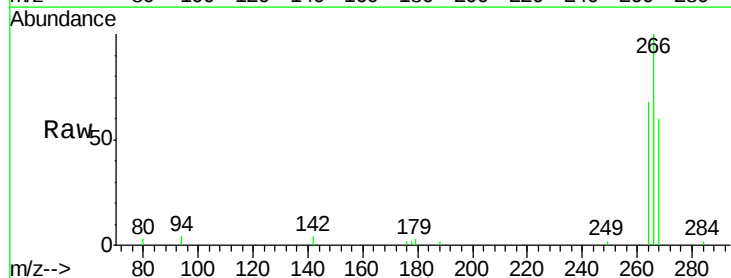
Manual Integrations
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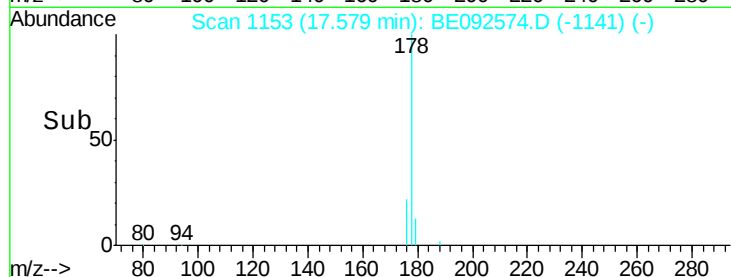
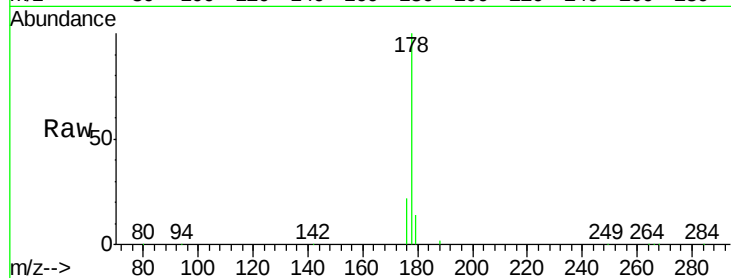
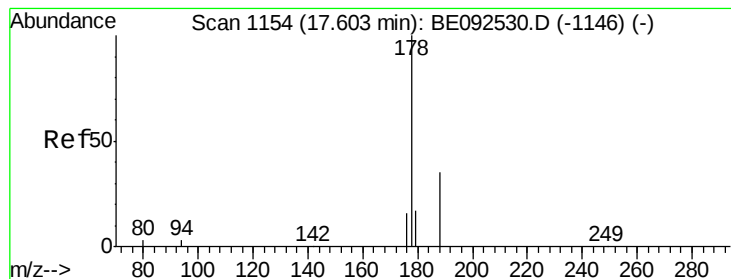
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#20
Pentachlorophenol
Concen: 7.03 ng
RT: 17.21 min Scan# 1137
Delta R.T. -0.02 min
Lab File: BE092574.D
Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Lower	Upper
266	100		
268	59.6	62.5	93.7#
264	67.5	57.2	85.8





#21

Phenanthrene

Concen: 4.65 ng

RT: 17.58 min Scan# 1153

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

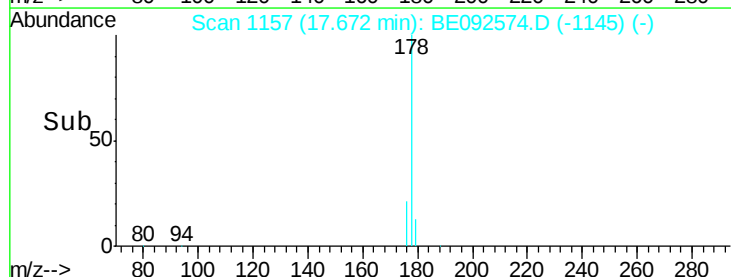
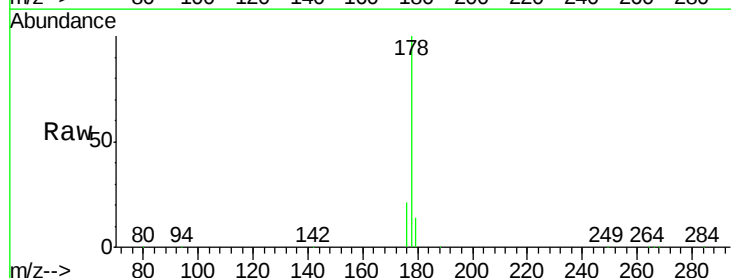
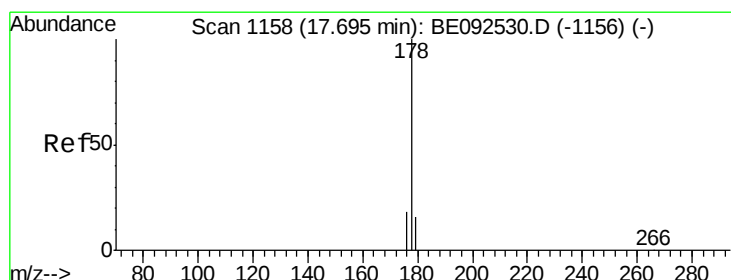
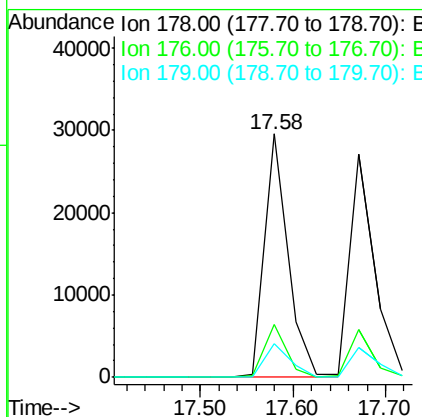
ClientSampleId :

PB94794BSD

Tgt Ion:	178	Resp:	51371
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.8	23.8
179	14.8	16.0	24.0#

Manual Integrations
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#22

Anthracene

Concen: 4.88 ng

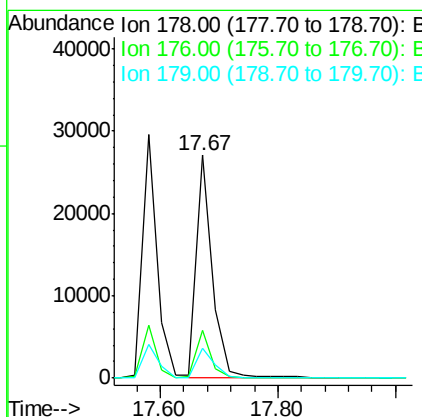
RT: 17.67 min Scan# 1157

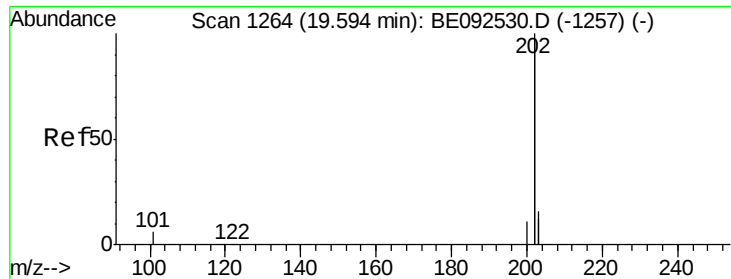
Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Tgt Ion:	178	Resp:	50732
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.0	22.4
179	14.9	12.2	18.2





#23

Fluoranthene

Concen: 4.03 ng

RT: 19.58 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

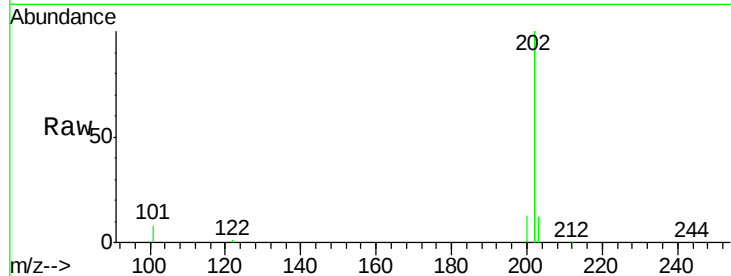
ClientSampleId :

PB94794BSD

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		207612		
101	3.0	2.2		3.4	
203	17.5	13.7		20.5	

Manual Integrations
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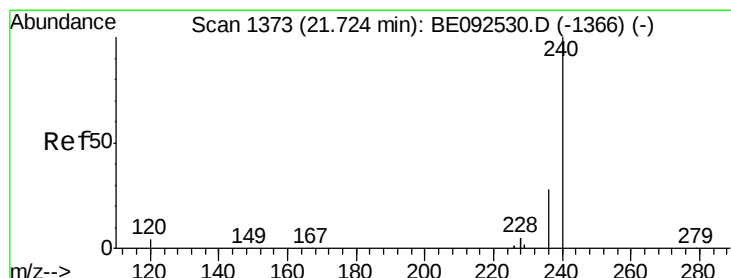
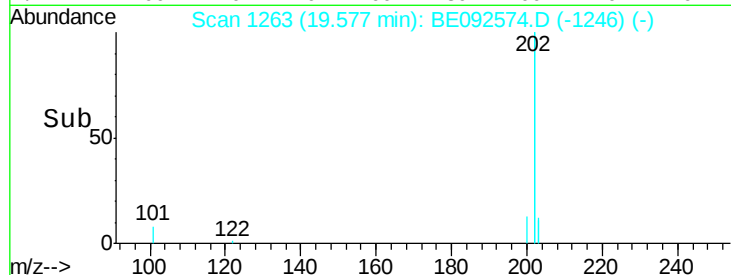
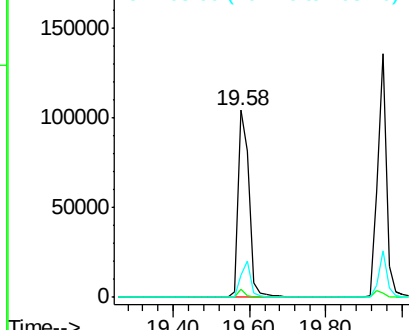
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

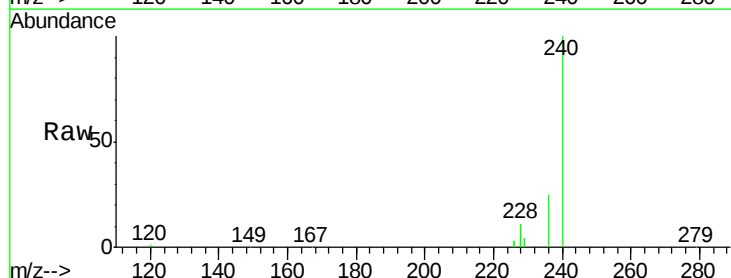
RT: 21.72 min Scan# 1373

Delta R.T. -0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

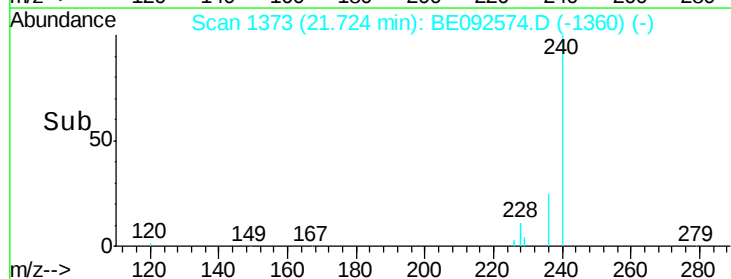
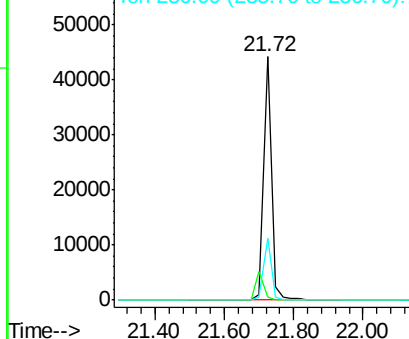
Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		66159		
120	1.4	2.6		4.0#	
236	25.4	24.6		37.0	

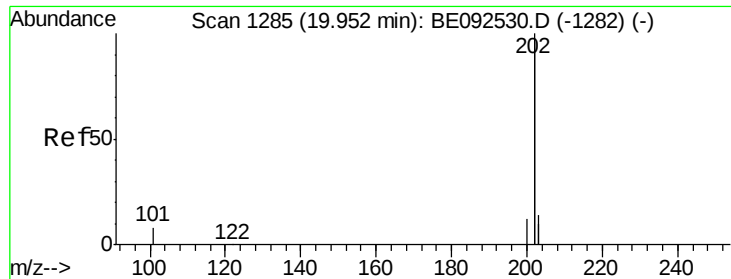


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





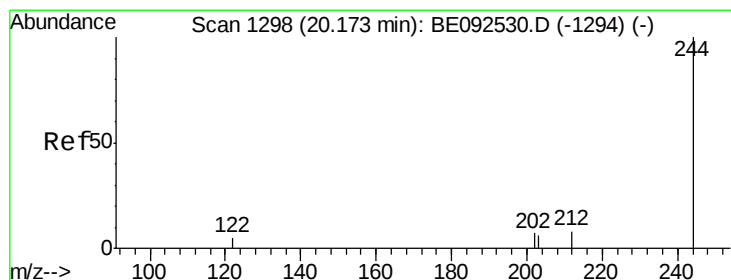
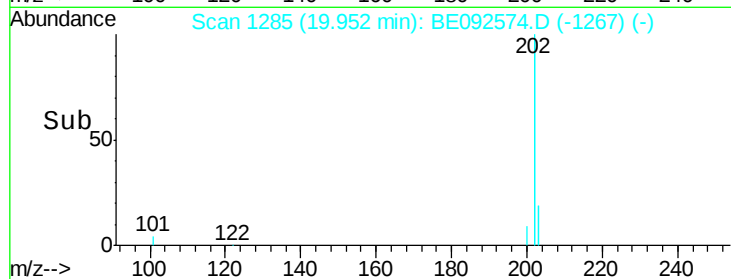
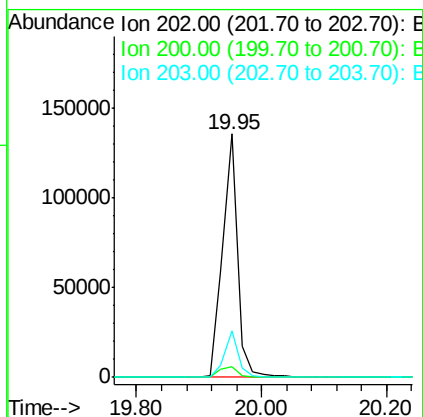
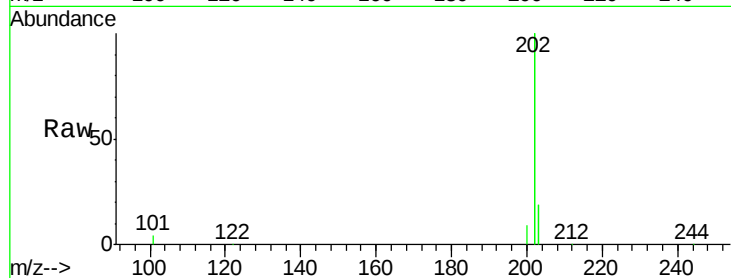
#25
 Pyrene
 Concen: 4.22 ng
 RT: 19.95 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Instrument :
 BNA_E
 ClientSampleId :
 PB94794BSD

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.2	6.4
203	17.8	13.9	20.9

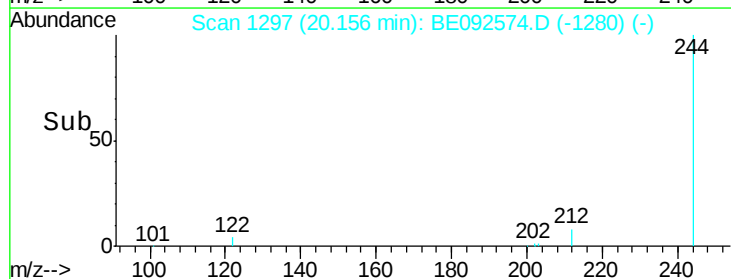
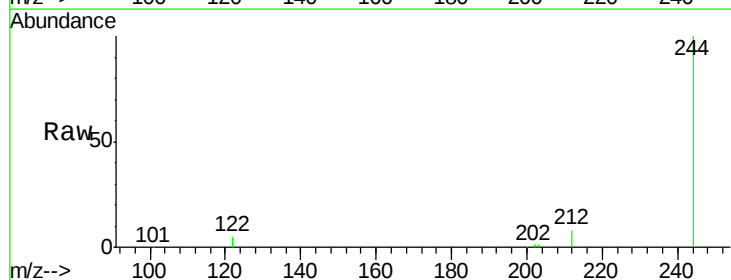
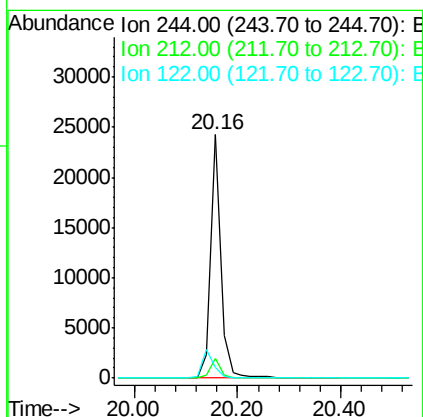
Manual Integrations
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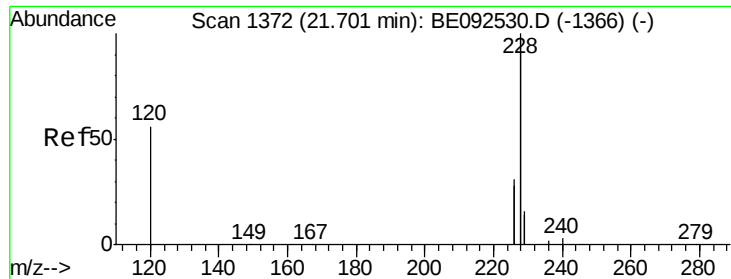
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#26
 Terphenyl-d14
 Concen: 4.33 ng
 RT: 20.16 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.7	10.1
122	4.6	3.6	5.4





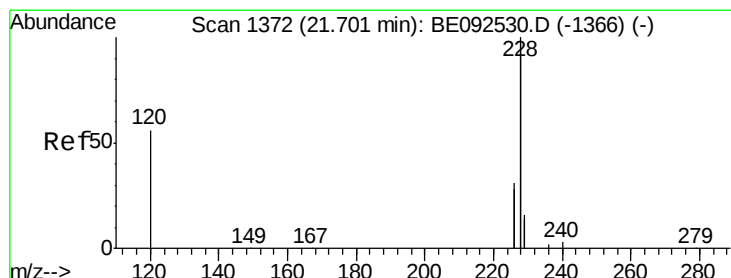
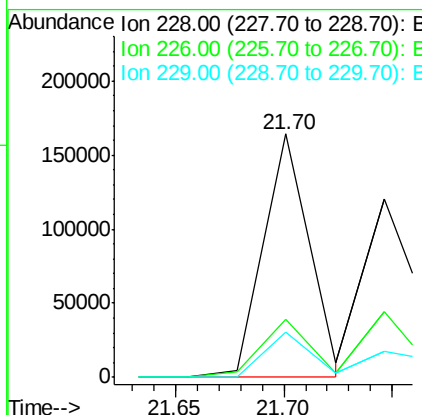
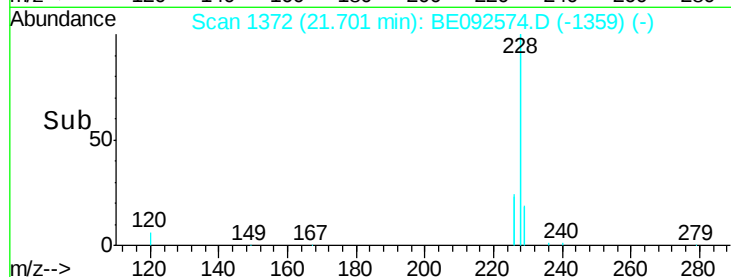
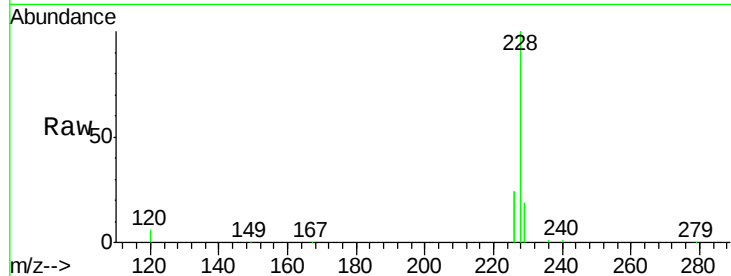
#27
Benzo(a)anthracene
Concen: 3.90 ng m
RT: 21.70 min Scan# 1372
Delta R.T. 0.00 min
Lab File: BE092574.D
Acq: 23 Nov 2016 11:40

Instrument :
BNA_E
ClientSampleId :
PB94794BSD

Tgt Ion	Ratio	Lower	Upper
228	100		
226	23.7	23.6	35.4
229	18.7	13.3	19.9

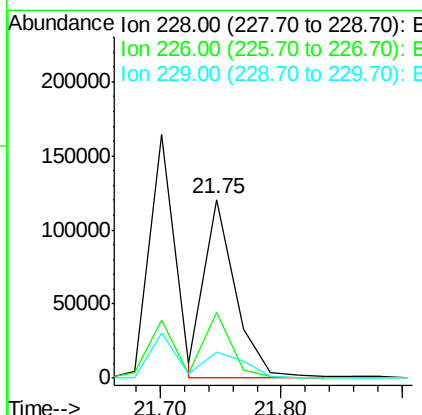
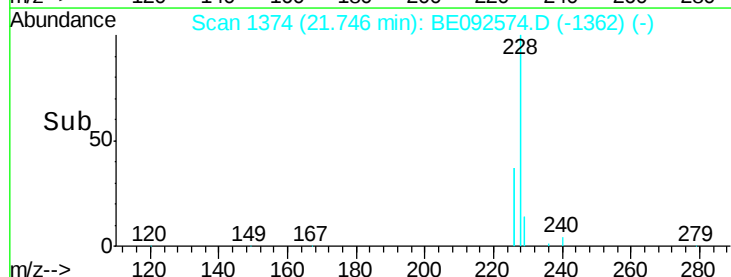
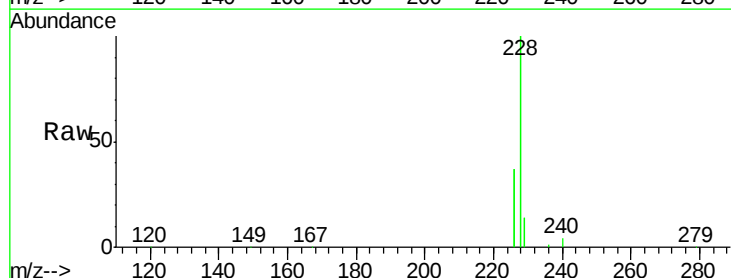
Manual Integrations
APPROVED

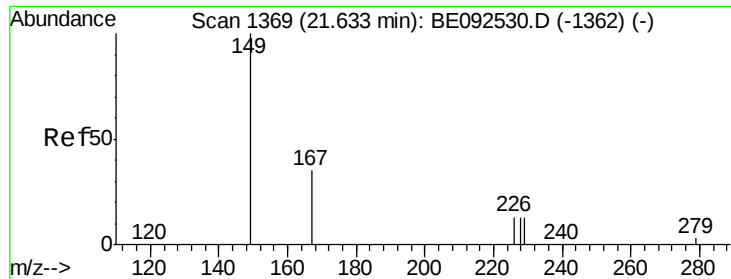
Umangi
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#28
Chrysene
Concen: 3.88 ng m
RT: 21.75 min Scan# 1374
Delta R.T. -0.02 min
Lab File: BE092574.D
Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.1	36.3	54.5
229	14.3	10.6	16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 4.20 ng

RT: 21.61 min Scan# 1368

Delta R.T. -0.02 min

Lab File: BE092574.D

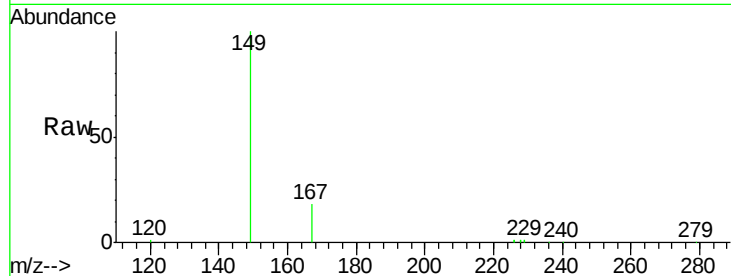
Acq: 23 Nov 2016 11:40

Instrument :

BNA_E

ClientSampleId :

PB94794BSD



Tgt Ion: 149 Resp: 17938

Ion Ratio Lower Upper

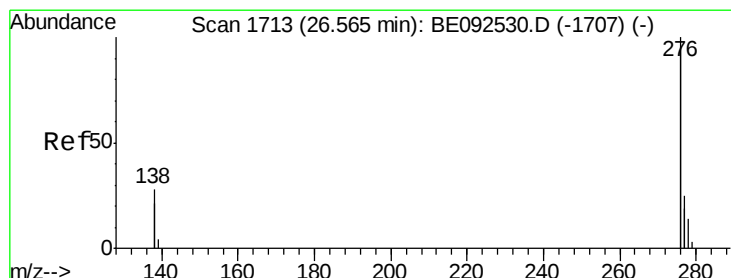
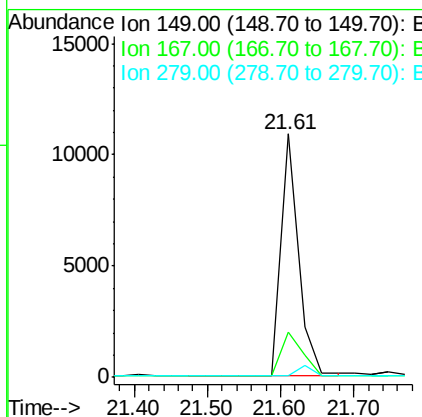
149 100

167 22.6 16.0 24.0

279 0.0 16.0 24.0#

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#30

Indeno(1,2,3-cd)pyrene

Concen: 4.59 ng

RT: 26.55 min Scan# 1712

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

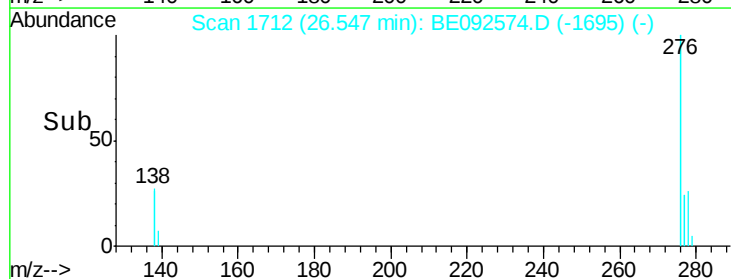
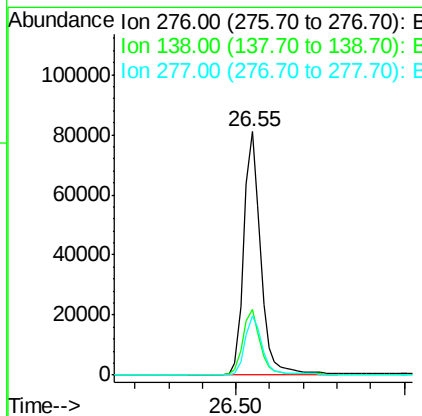
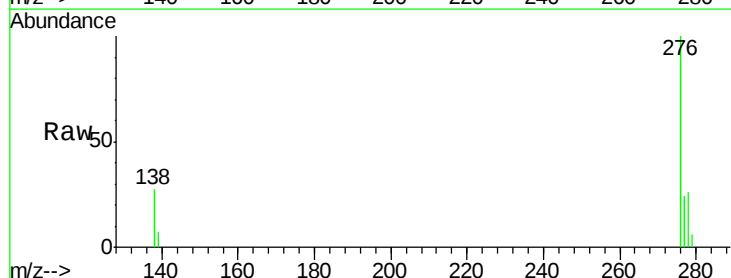
Tgt Ion: 276 Resp: 281820

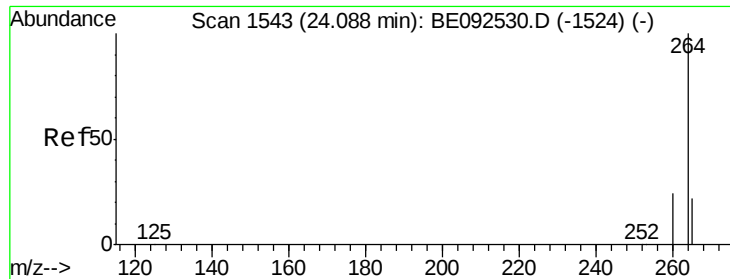
Ion Ratio Lower Upper

276 100

138 27.7 20.3 30.5

277 24.6 19.7 29.5





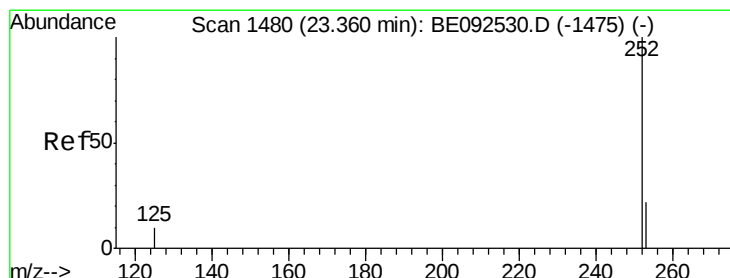
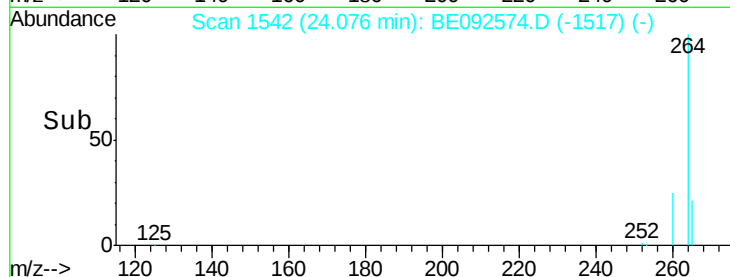
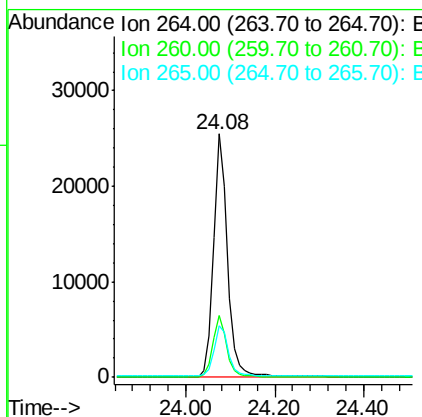
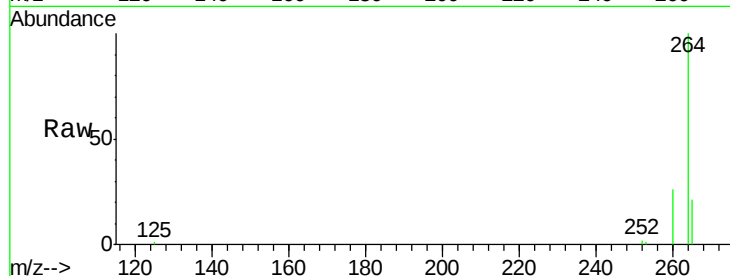
#31
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.08 min Scan# 1542
 Delta R.T. -0.01 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Instrument :
 BNA_E
 ClientSampleId :
 PB94794BSD

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.5	20.1	30.1
265	21.4	17.9	26.9

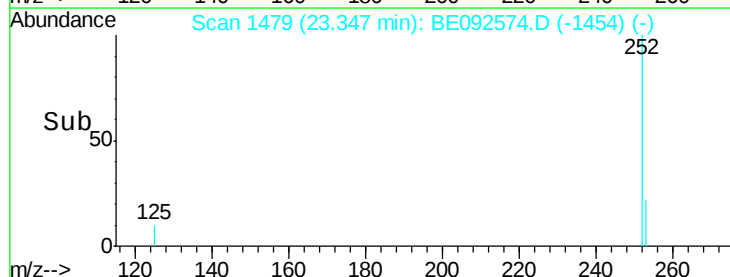
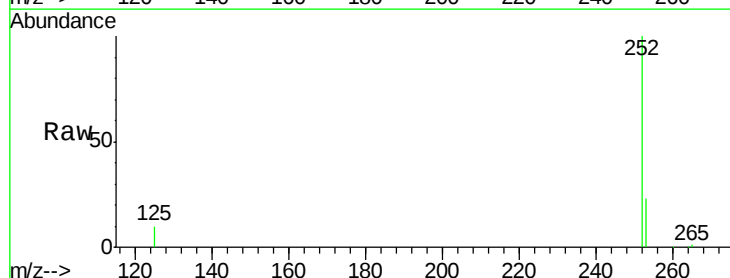
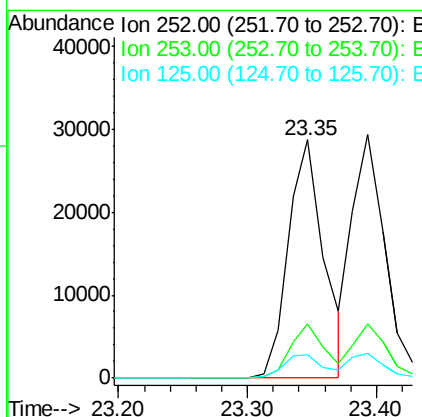
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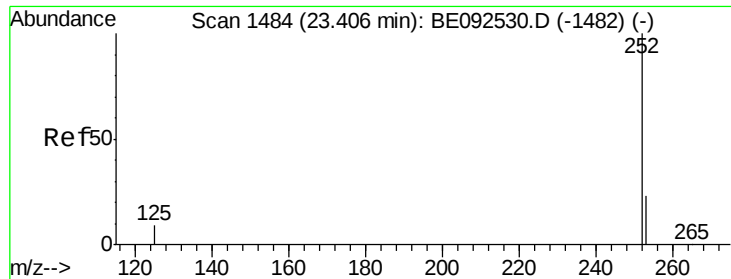
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#32
 Benzo(b)fluoranthene
 Concen: 4.06 ng
 RT: 23.35 min Scan# 1479
 Delta R.T. -0.01 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.7	28.1
125	10.1	10.5	15.7#





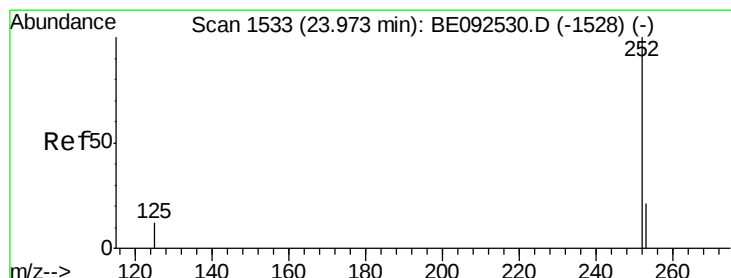
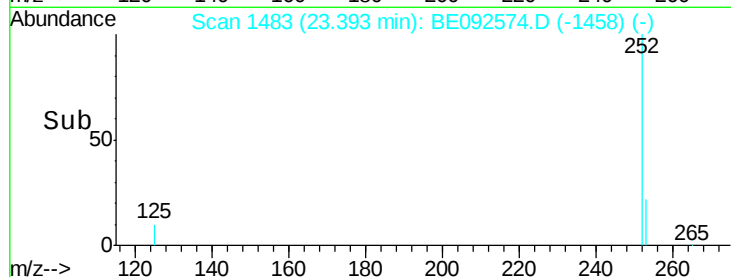
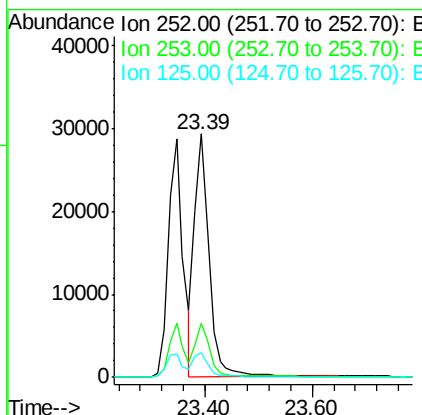
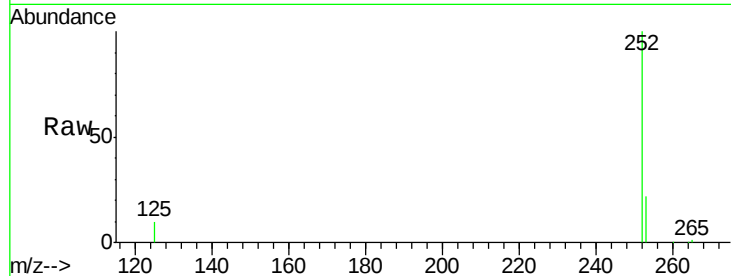
#33
Benzo(k)fluoranthene
Concen: 3.82 ng
RT: 23.39 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BE092574.D
Acq: 23 Nov 2016 11:40

Instrument :
BNA_E
ClientSampleId :
PB94794BSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	20.3	30.5
125	10.2	9.6	14.4

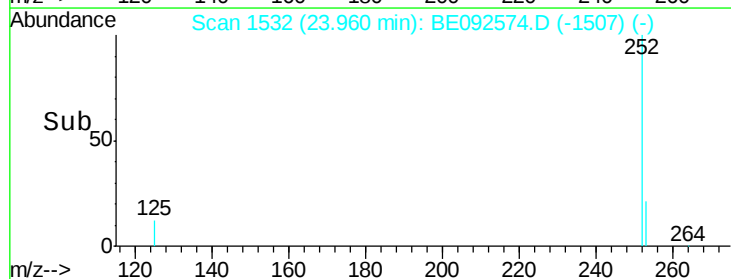
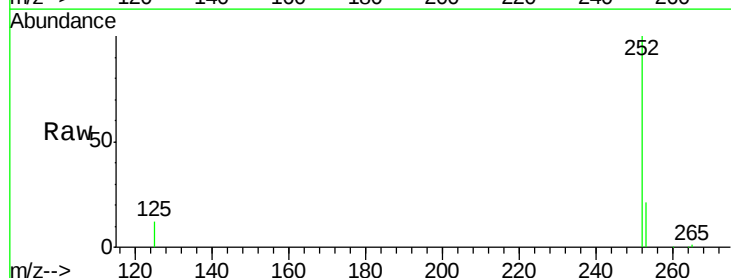
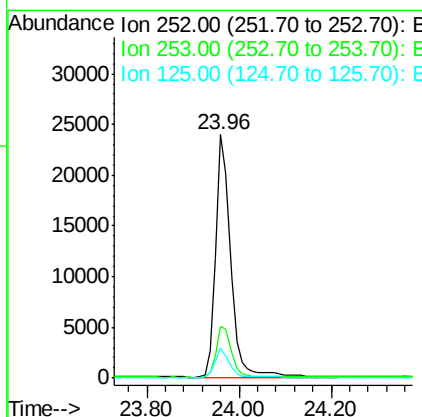
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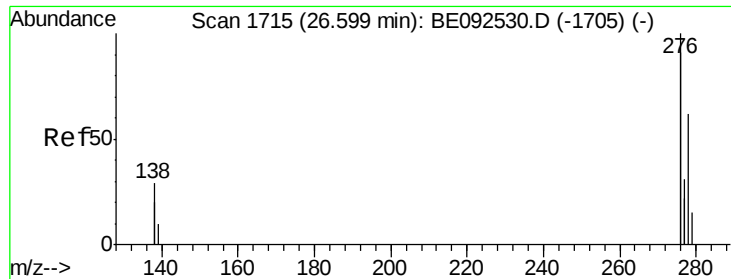
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#34
Benzo(a)pyrene
Concen: 4.30 ng
RT: 23.96 min Scan# 1532
Delta R.T. -0.01 min
Lab File: BE092574.D
Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	19.0	28.6
125	12.1	11.8	17.8





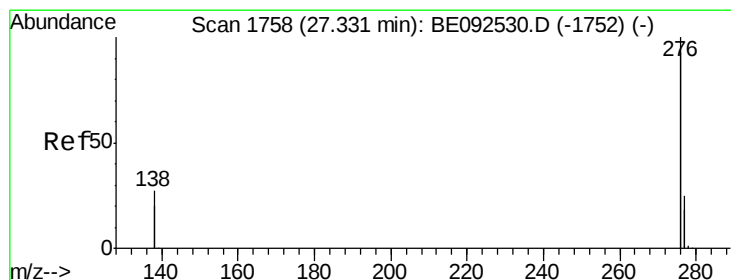
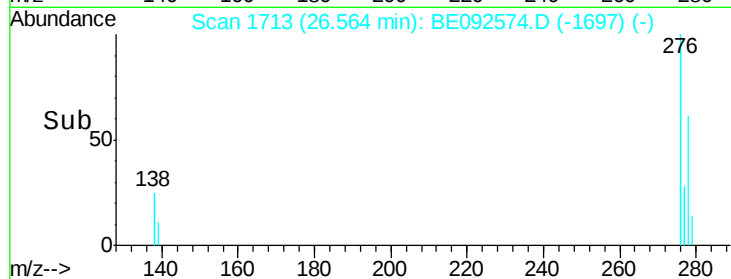
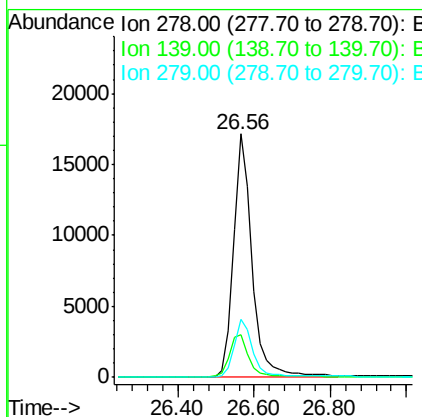
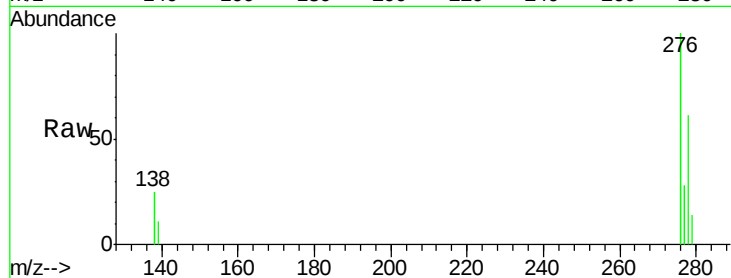
#35
 Dibenzo(a,h)anthracene
 Concen: 4.69 ng
 RT: 26.56 min Scan# 1713
 Delta R.T. -0.03 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Instrument :
 BNA_E
 ClientSampleId :
 PB94794BSD

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	13.8	20.8
279	23.7	21.4	32.2

Manual Integrations
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#36
 Benzo(g,h,i)perylene
 Concen: 4.62 ng
 RT: 27.31 min Scan# 1757
 Delta R.T. -0.02 min
 Lab File: BE092574.D
 Acq: 23 Nov 2016 11:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.8
138	23.3	19.8	29.6

