

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\
 Data File : BE092796.D
 Acq On : 6 Mar 2017 20:46
 Operator : SJ/MA
 Sample : PB97375BSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB97375BSD

Manual Integrations
 APPROVED

mohammad
 3/7/2017 4:23:19 PM

Quant Time: Mar 07 02:34:50 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE030617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 06 15:46:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	10950	5.00	ng	-0.02
7) Naphthalene-d8	10.87	136	44824	5.00	ng	-0.02
12) Acenaphthene-d10	14.75	164	22757	5.00	ng	-0.02
18) Phenanthrene-d10	17.51	188	45859	5.00	ng	0.00
24) Chrysene-d12	21.68	240	65231	5.00	ng	-0.02
31) Perylene-d12	24.01	264	46520	5.00	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.60	112	21382	9.23	ng	-0.03
5) Phenol-d6	7.27	99	26928	9.76	ng	-0.05
8) Nitrobenzene-d5	9.27	82	12656	4.62	ng	-0.05
13) 2,4,6-Tribromophenol	16.24	330	6574	10.98	ng	-0.05
14) 2-Fluorobiphenyl	13.36	172	27881	5.20	ng	-0.04
26) Terphenyl-d14	20.12	244	33422	4.25	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.33	88	5137	3.94	ng	# 79
3) n-Nitrosodimethylamine	3.67	42	7444	4.05	ng	95
6) bis(2-Chloroethyl)ether	7.52	93	11024	3.66	ng	# 26
9) Naphthalene	10.91	128	38604	4.03	ng	# 95
10) Hexachlorobutadiene	11.20	225	5849	4.23	ng	100
11) 2-Methylnaphthalene	12.54	142	24880	4.01	ng	97
15) Acenaphthylene	14.46	152	159673	4.57	ng	100
16) Acenaphthene	14.80	154	23678	4.84	ng	93
17) Fluorene	15.80	166	31002	4.66	ng	100
19) Hexachlorobenzene	16.82	284	9350	4.98	ng	# 63
20) Pentachlorophenol	17.17	266	7115	10.45	ng	# 85
21) Phenanthrene	17.53	178	54093	4.92	ng	# 94
22) Anthracene	17.63	178	50046	4.51	ng	99
23) Fluoranthene	19.54	202	226160	4.22	ng	100
25) Pyrene	19.90	202	231235	3.91	ng	99
27) Benzo(a)anthracene	21.66	228	250349m	3.71	ng	
28) Chrysene	21.70	228	240571m	4.02	ng	
29) Bis(2-ethylhexyl)phthalate	21.57	149	18275	3.20	ng	# 56
30) Indeno(1,2,3-cd)pyrene	26.45	276	288684	4.46	ng	96
32) Benzo(b)fluoranthene	23.29	252	62763	5.07	ng	# 96
33) Benzo(k)fluoranthene	23.34	252	56720	4.55	ng	95
34) Benzo(a)pyrene	23.89	252	55249	4.90	ng	94
35) Dibenzo(a,h)anthracene	26.46	278	62245	5.78	ng	94
36) Benzo(g,h,i)perylene	27.20	276	247595	5.38	ng	98

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

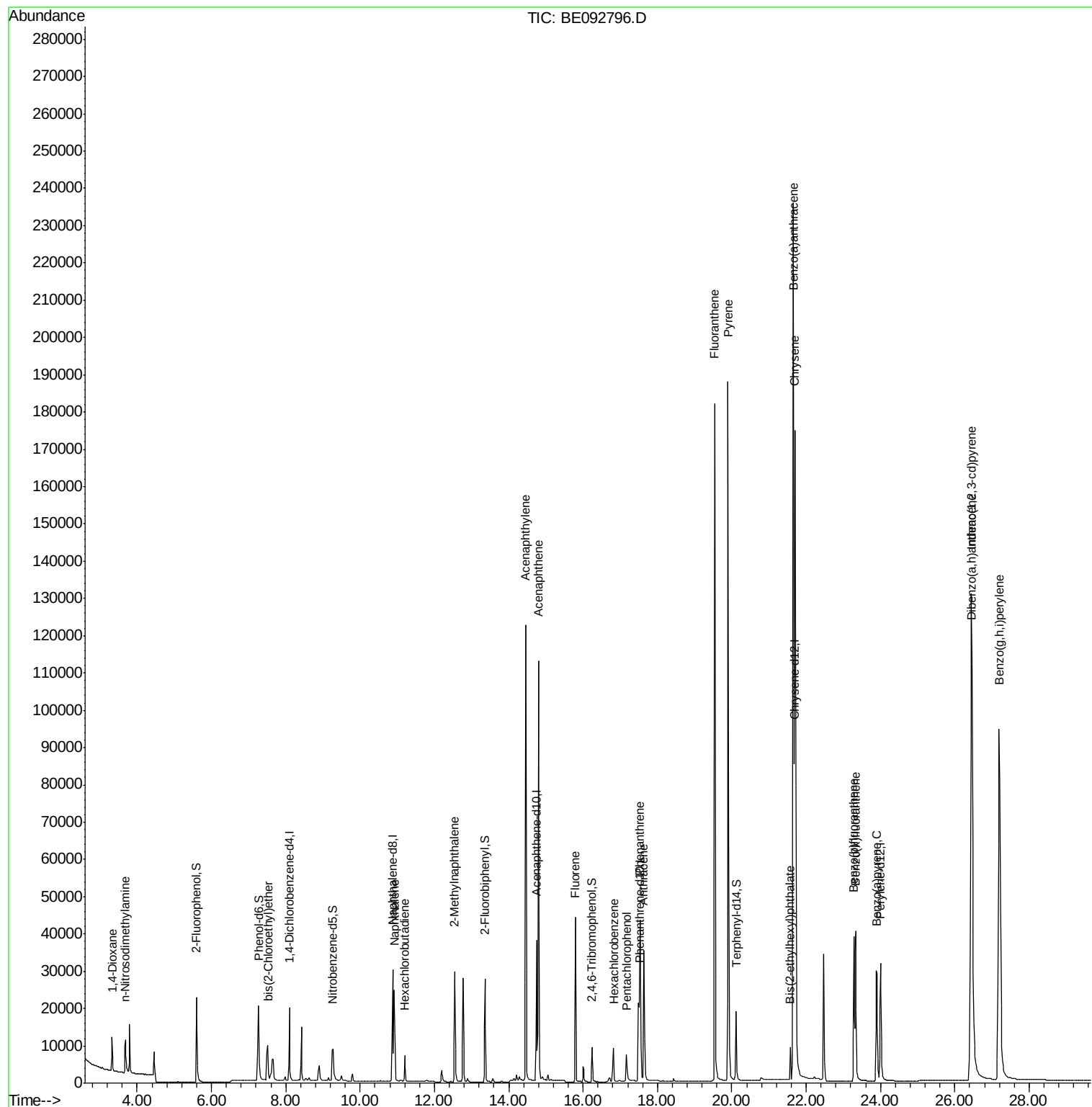
Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\
Data File : BE092796.D
Acq On : 6 Mar 2017 20:46
Operator : SJ/MA
Sample : PB97375BSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

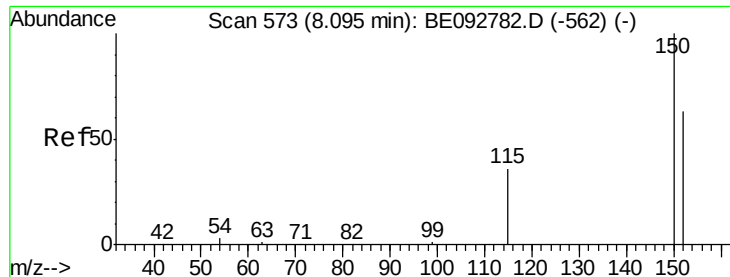
Instrument :
BNA_E
ClientSampleId :
PB97375BSD

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Quant Time: Mar 07 02:34:50 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE030617.M
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QLast Update : Mon Mar 06 15:46:01 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.10 min Scan# 573

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

ClientSampleId :

PB97375BSD

Tot Ion:152 Resp: 10950

Ion Ratio Lower Upper

152 100

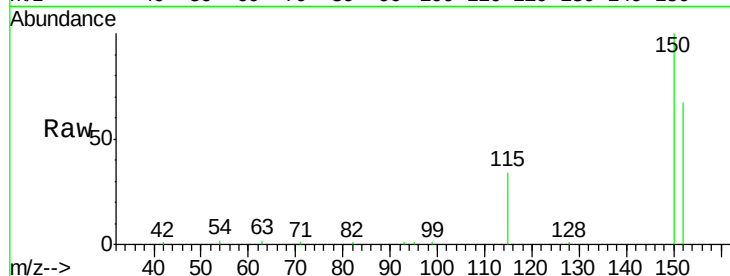
150 148.4 106.0 159.0

115 50.4 31.2 46.8#

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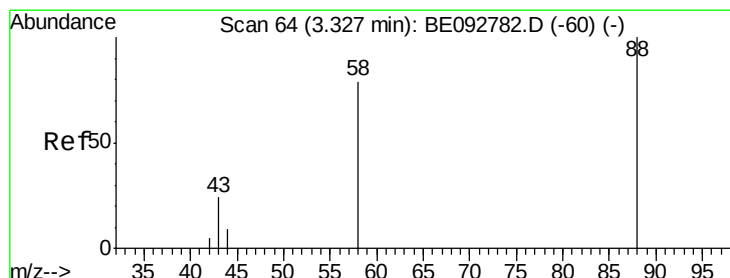
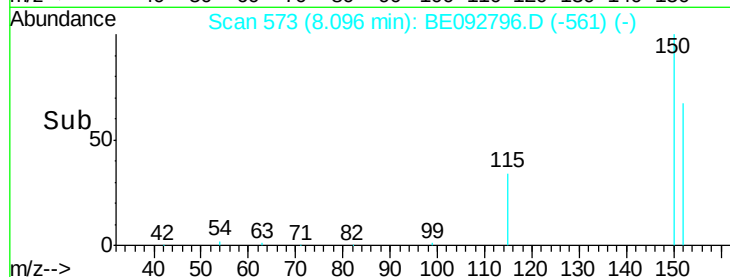
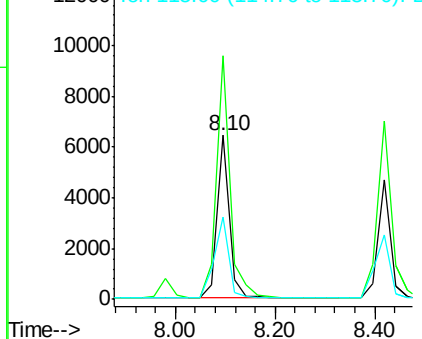
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 3.94 ng

RT: 3.33 min Scan# 64

Delta R.T. -0.01 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

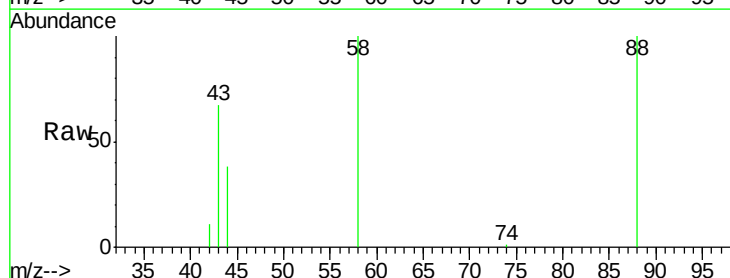
Tgt Ion: 88 Resp: 5137

Ion Ratio Lower Upper

88 100

58 100.0 63.6 95.4#

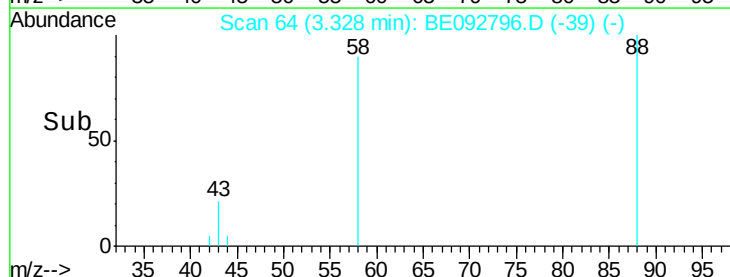
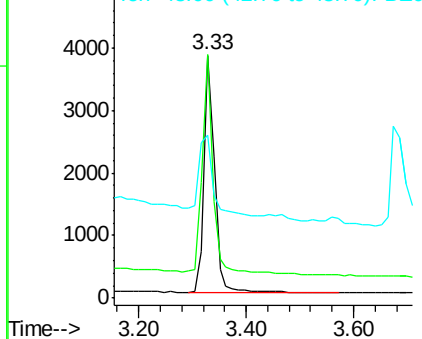
43 43.9 28.0 42.0#

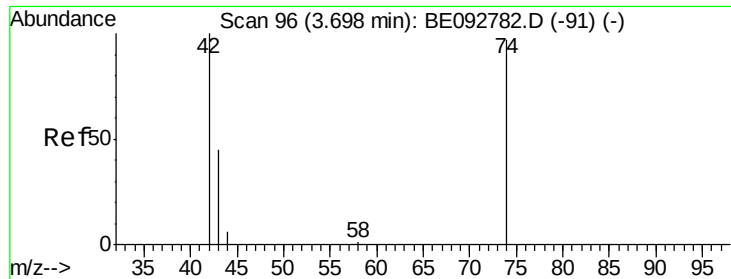


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 4.05 ng

RT: 3.67 min Scan# 94

Delta R.T. -0.06 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

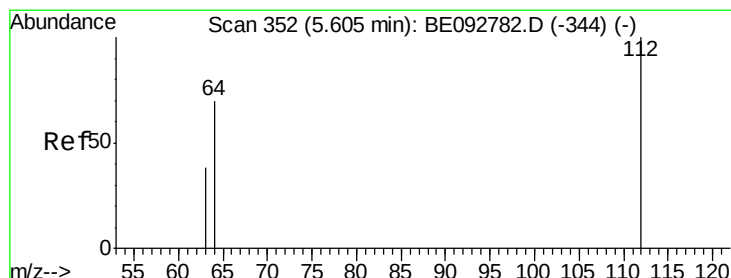
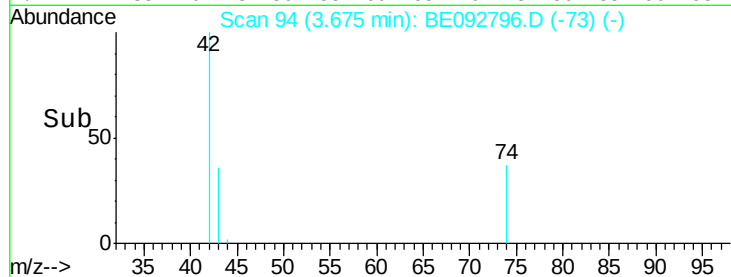
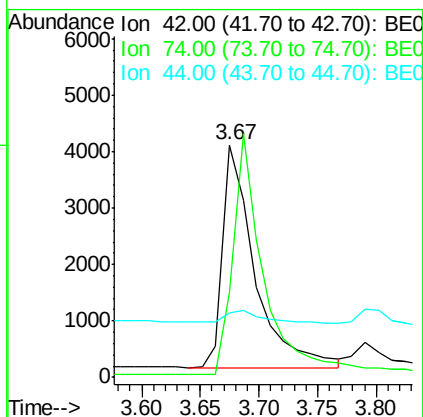
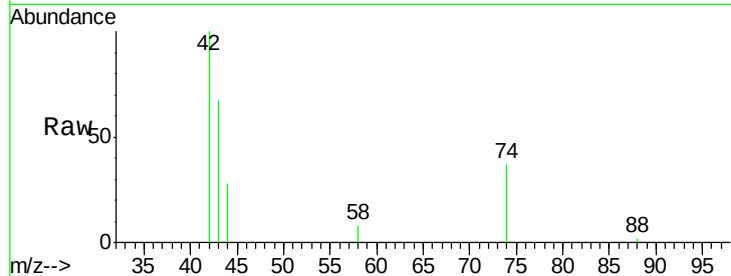
ClientSampleId :

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Tot Ion:	42	Resp:	7444
Ion	Ratio	Lower	Upper
42	100		
74	113.1	86.0	129.0
44	7.3	5.1	7.7

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#4

2-Fluorophenol

Concen: 9.23 ng

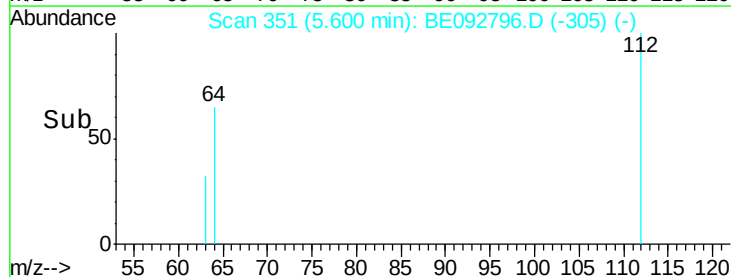
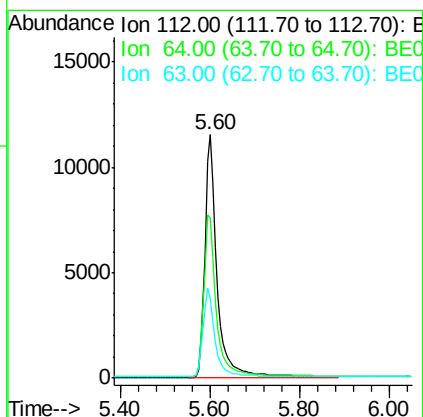
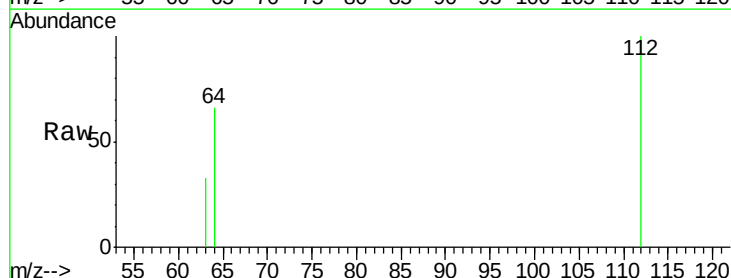
RT: 5.60 min Scan# 351

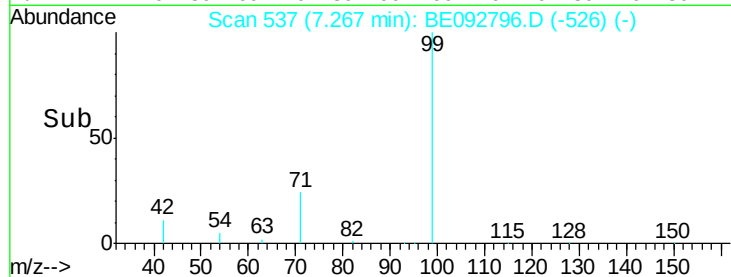
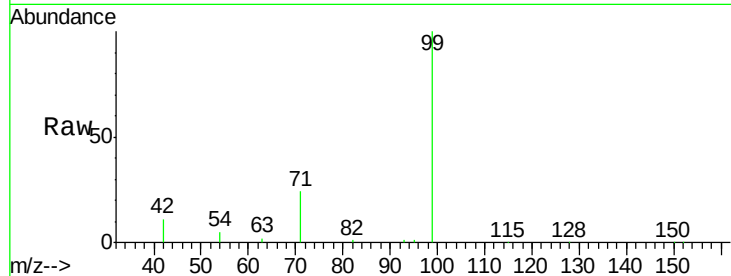
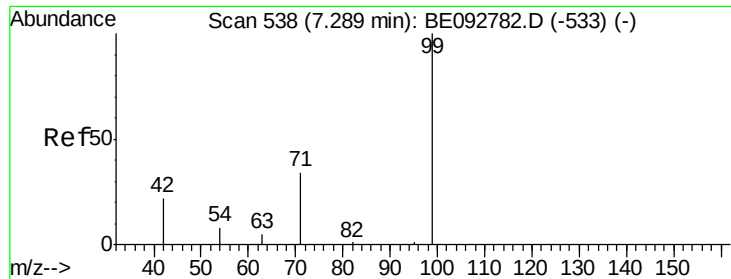
Delta R.T. -0.03 min

Lab File: BE092796.D

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Tgt Ion:	112	Resp:	21382
Ion	Ratio	Lower	Upper
112	100		
64	68.4	53.5	80.3
63	36.5	27.9	41.9





#5

Phenol-d6

Concen: 9.76 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.05 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tot Ion:	99	Resp:	26928
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	32.7	30.6	45.8

Instrument :

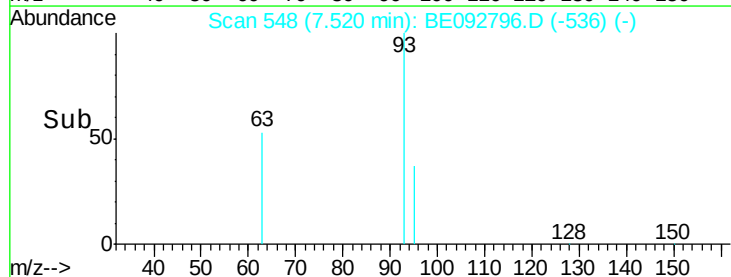
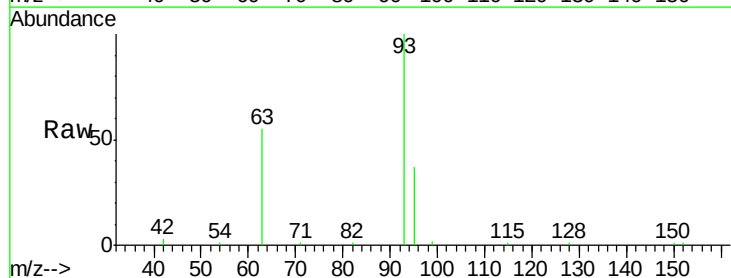
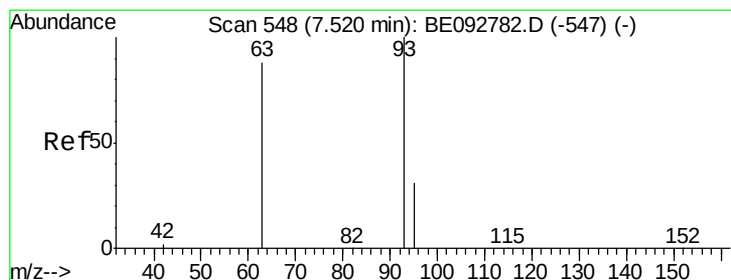
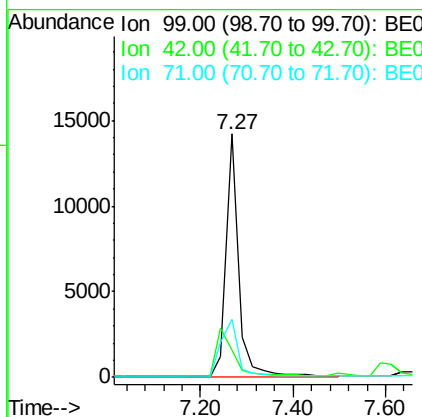
BNA_E

ClientSampleId :

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#6

bis(2-Chloroethyl)ether

Concen: 3.66 ng

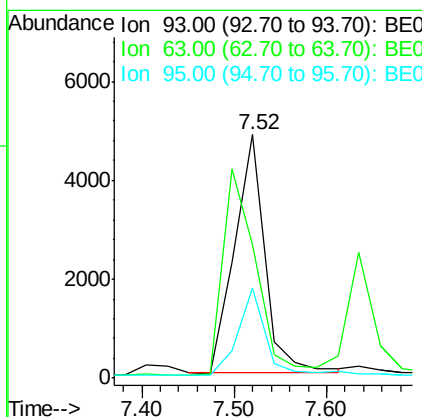
RT: 7.52 min Scan# 548

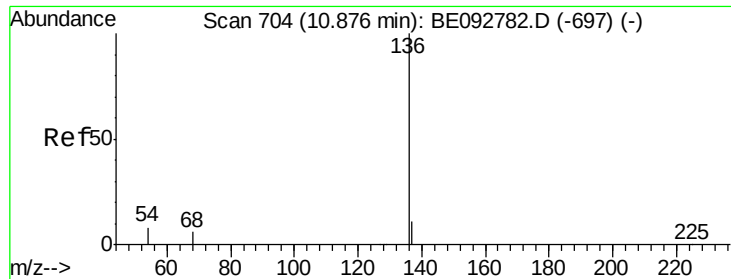
Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion:	93	Resp:	11024
Ion Ratio	Lower	Upper	
93	100		
63	0.0	71.6	107.4#
95	35.3	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.87 min Scan# 704

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

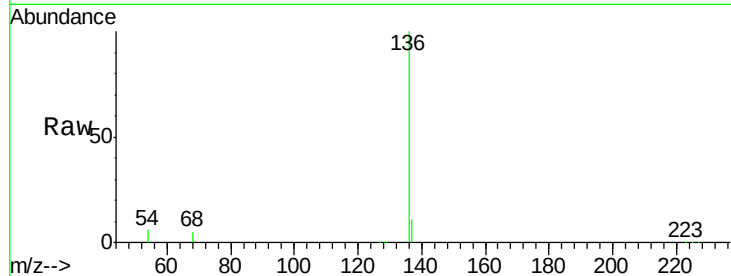
ClientSampleId :

PB97375BSD

Tot Ion	Ratio	Resp	Lower	Upper
136	100	44824		
137	11.4	8.2	12.4	
54	6.1	9.6	14.4	#
68	4.7	6.7	10.1	#

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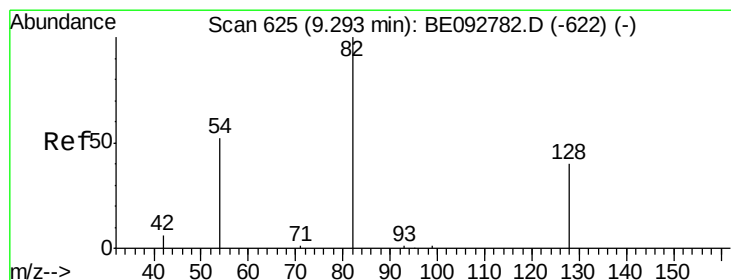
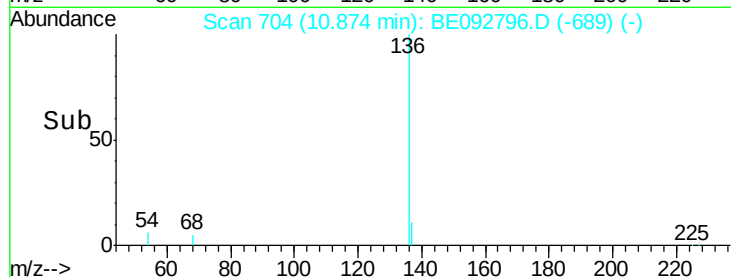
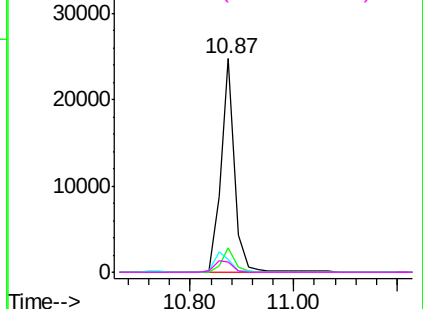


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 4.62 ng

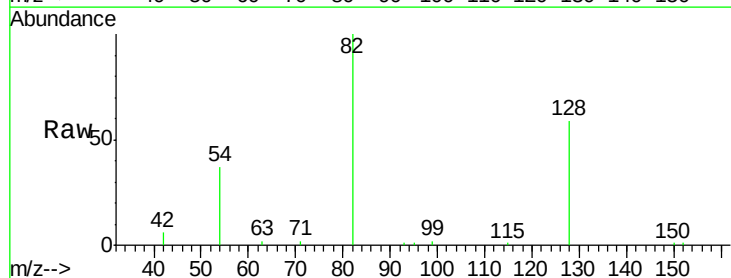
RT: 9.27 min Scan# 624

Delta R.T. -0.05 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

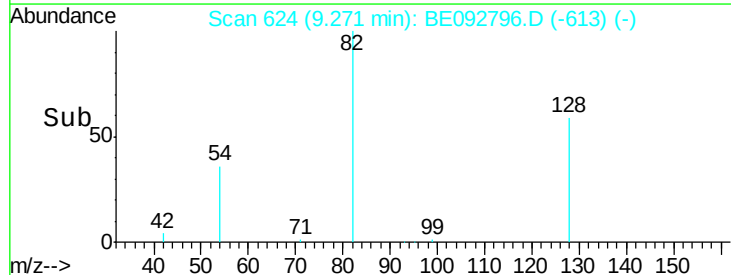
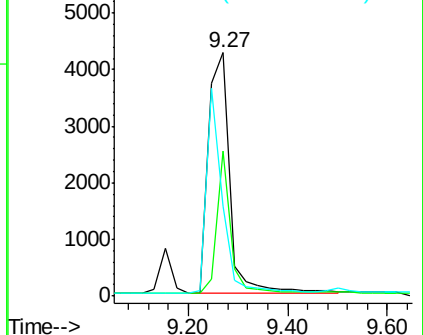
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	12656		
128	59.5	39.0	58.4	#
54	37.0	44.8	67.2	#

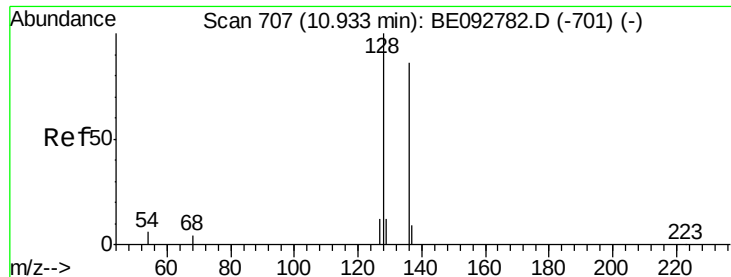


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 4.03 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

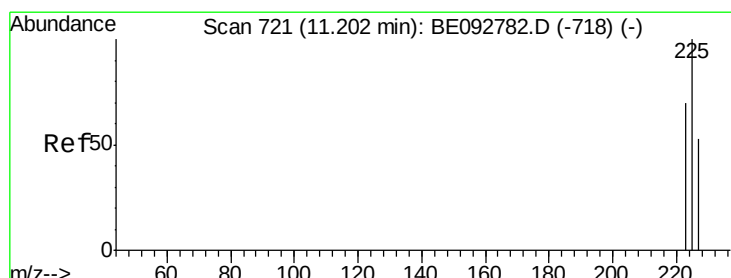
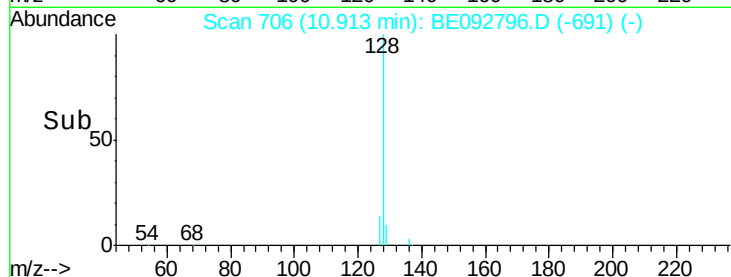
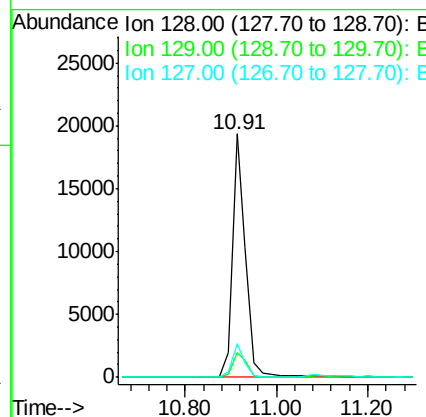
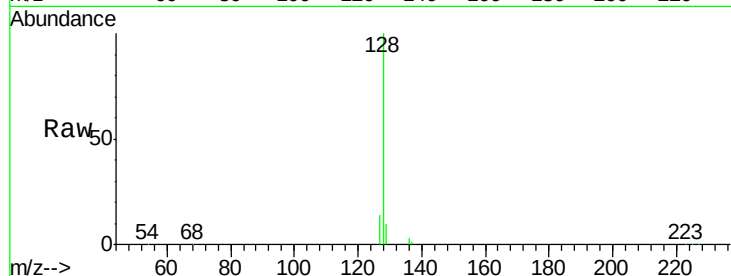
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Tot Ion	Ratio	Lower	Upper
128	100		
129	10.4	11.2	16.8#
127	14.0	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 4.23 ng

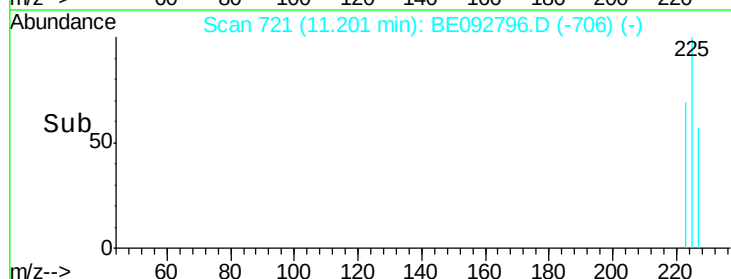
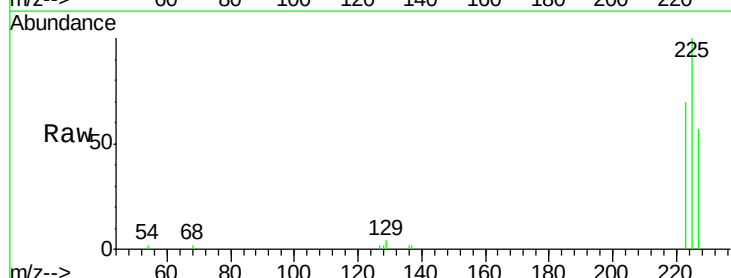
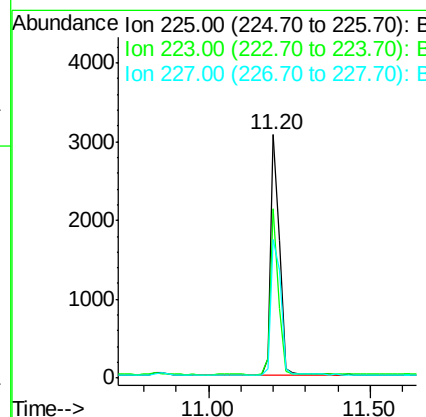
RT: 11.20 min Scan# 721

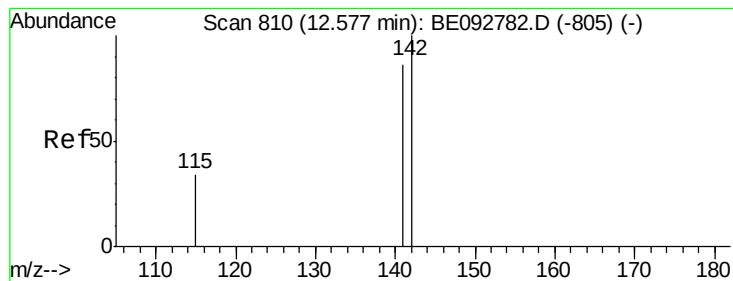
Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.6	76.0
227	63.8	51.4	77.0





#11

2-Methylnaphthalene

Concen: 4.01 ng

RT: 12.54 min Scan# 807

Delta R.T. -0.05 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

ClientSampleId :

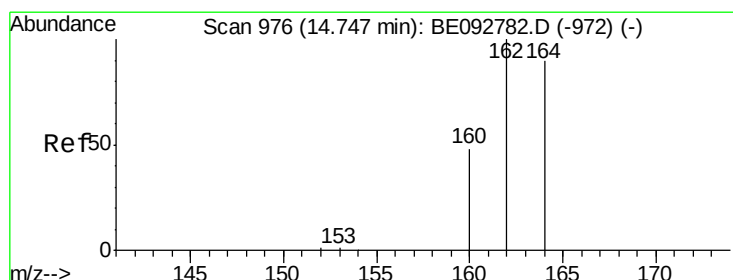
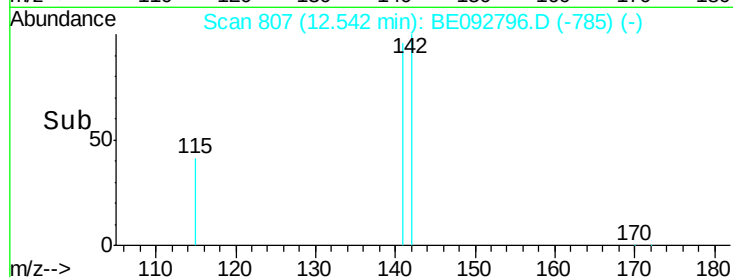
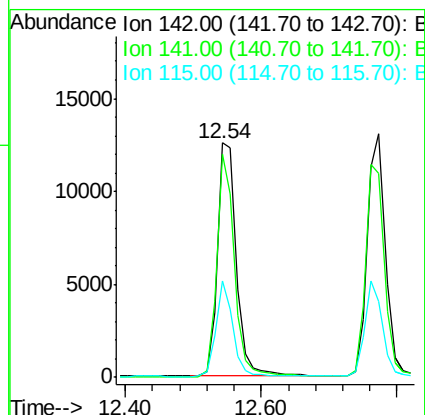
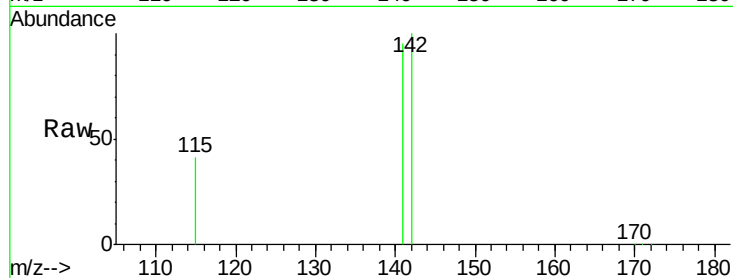
PB97375BSD

Tot Ion:142 Resp: 24880

Ion	Ratio	Lower	Upper
142	100		
141	95.2	73.7	110.5
115	41.0	34.0	51.0

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.75 min Scan# 976

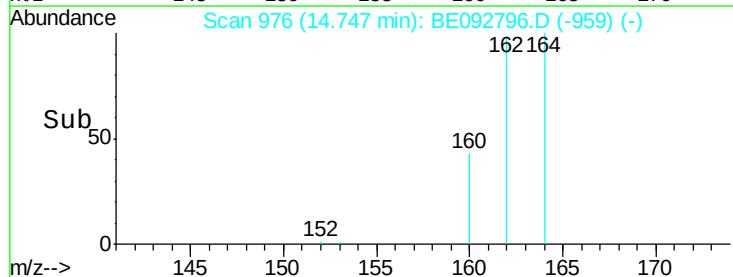
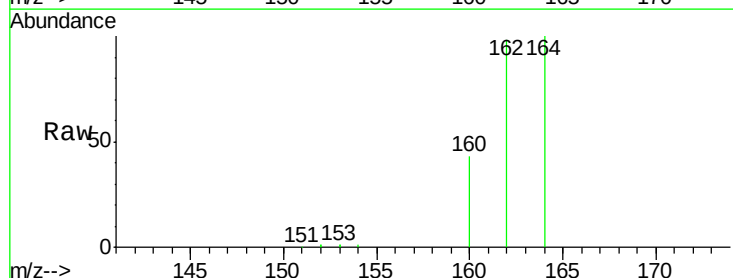
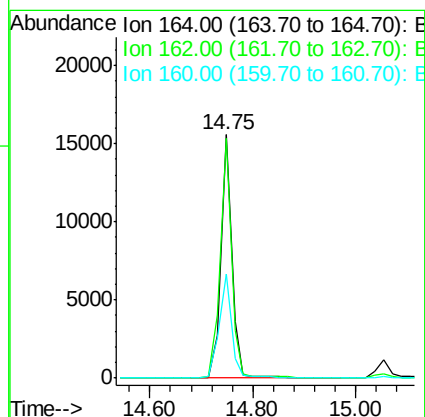
Delta R.T. -0.02 min

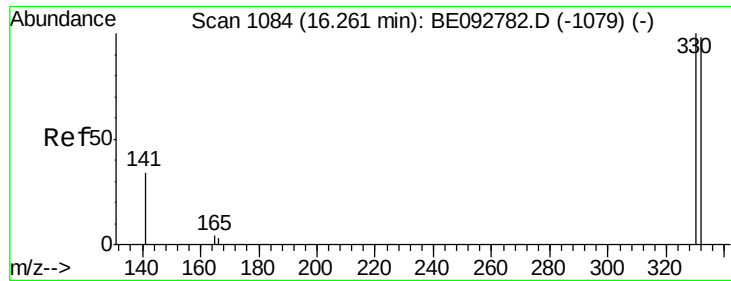
Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion:164 Resp: 22757

Ion	Ratio	Lower	Upper
164	100		
162	98.4	71.4	107.0
160	42.8	27.4	41.2





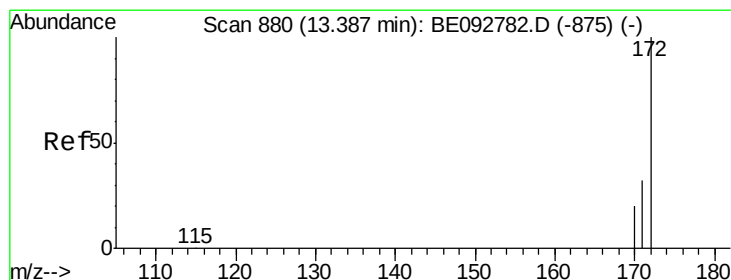
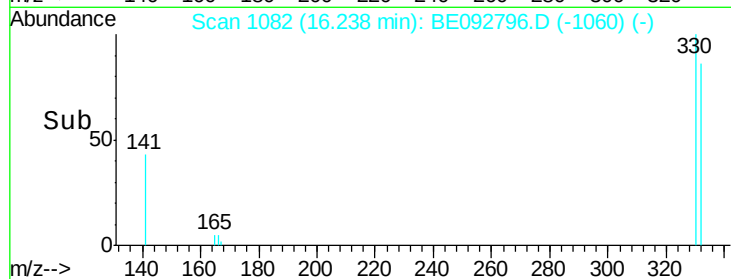
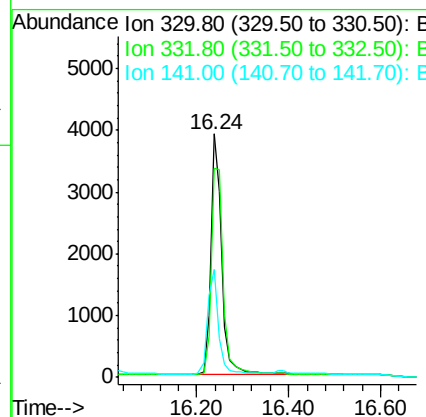
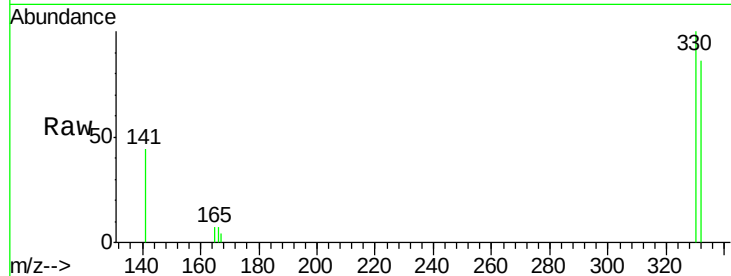
#13
 2,4,6-Tribromophenol
 Concen: 10.98 ng
 RT: 16.24 min Scan# 1082
 Delta R.T. -0.05 min
 Lab File: BE092796.D
 Acq: 6 Mar 2017 20:46

Instrument :
 BNA_E
 ClientSampleId :
 PB97375BSD

Tot Ion:330 Resp: 6574
 Ion Ratio Lower Upper
 330 100
 332 96.8 75.4 113.0
 141 43.3 31.0 46.6

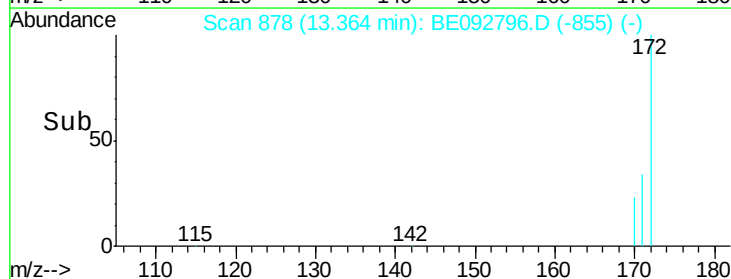
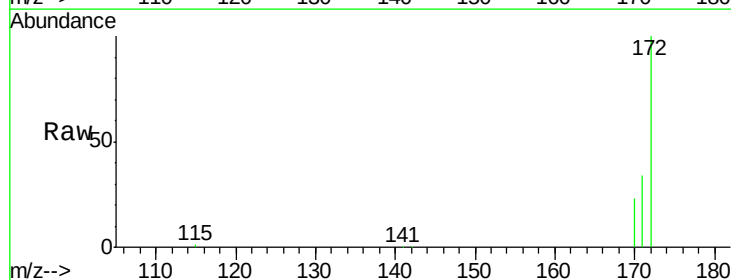
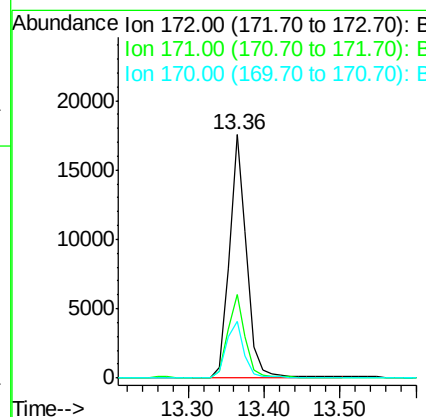
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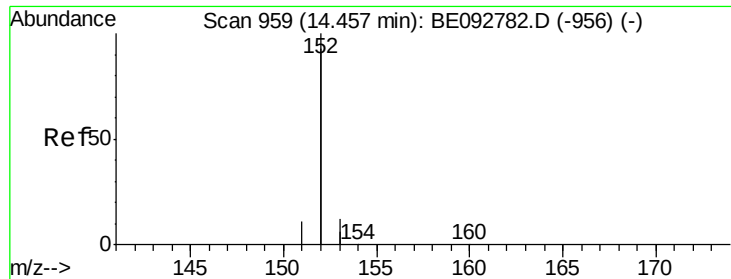
mohammad
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#14
 2-Fluorobiphenyl
 Concen: 5.20 ng
 RT: 13.36 min Scan# 878
 Delta R.T. -0.04 min
 Lab File: BE092796.D
 Acq: 6 Mar 2017 20:46

Tgt Ion:172 Resp: 27881
 Ion Ratio Lower Upper
 172 100
 171 34.2 30.1 45.1
 170 23.1 21.8 32.6





#15

Acenaphthylene

Concen: 4.57 ng

RT: 14.46 min Scan# 959

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

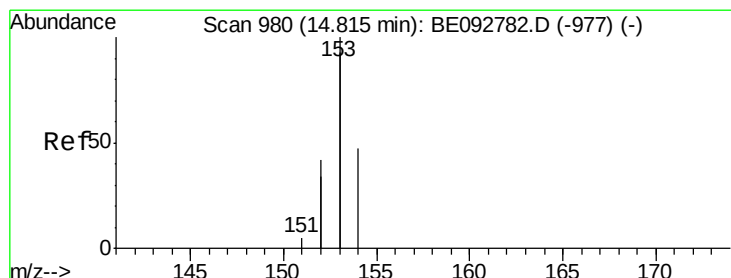
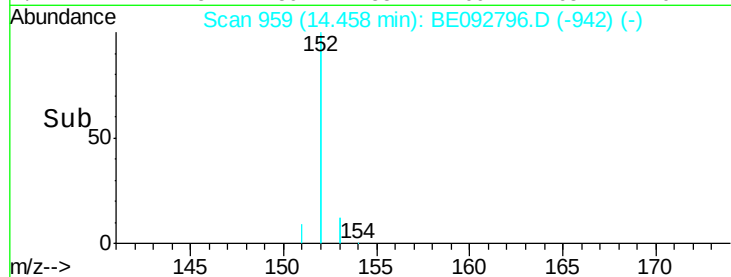
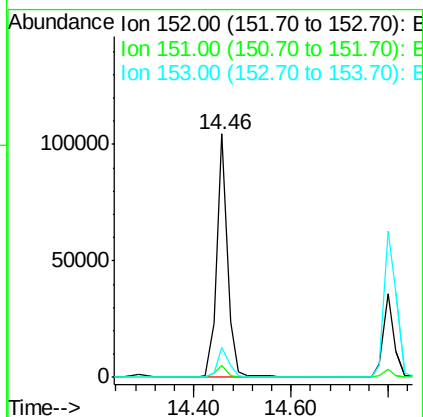
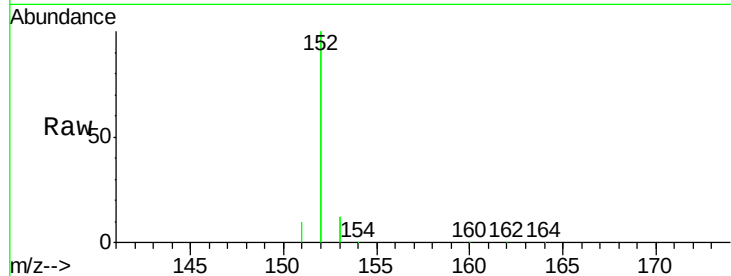
ClientSampleId :

PB97375BSD

Tot Ion:	152	Resp:	159673
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	12.8	10.4	15.6

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#16

Acenaphthene

Concen: 4.84 ng

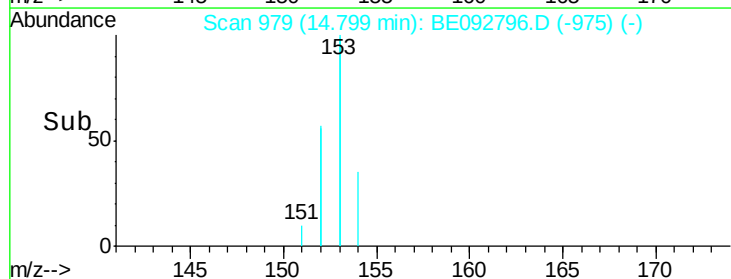
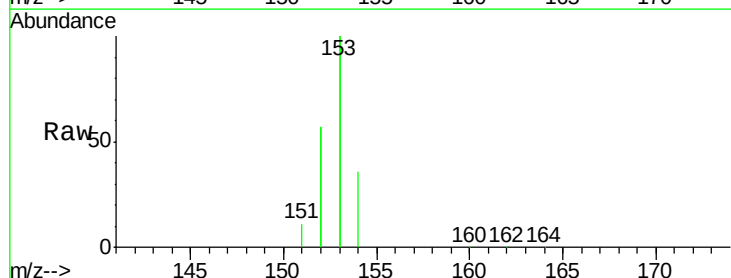
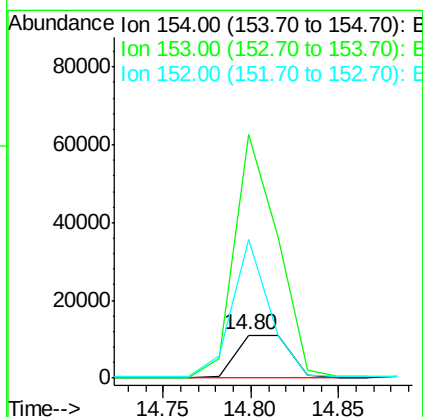
RT: 14.80 min Scan# 979

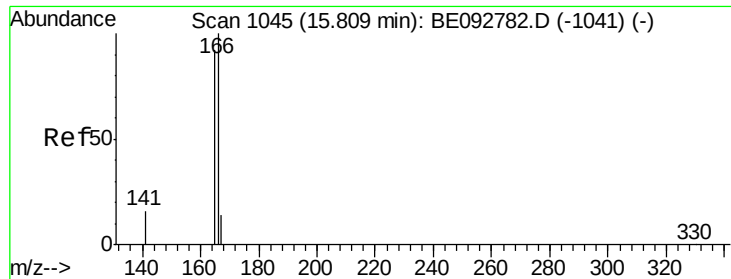
Delta R.T. -0.03 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion:	154	Resp:	23678
Ion Ratio	Lower	Upper	
154	100		
153	456.2	350.8	526.2
152	226.6	171.1	256.7





#17

Fluorene

Concen: 4.66 ng

RT: 15.80 min Scan# 1044

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

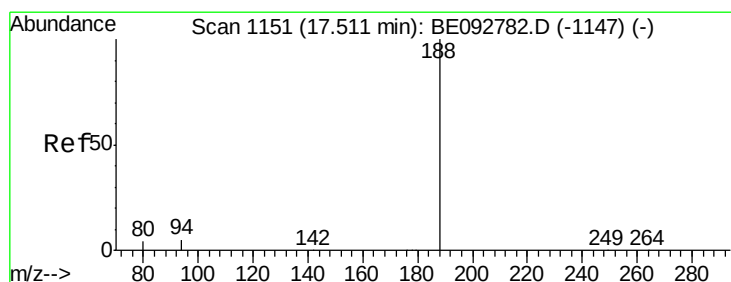
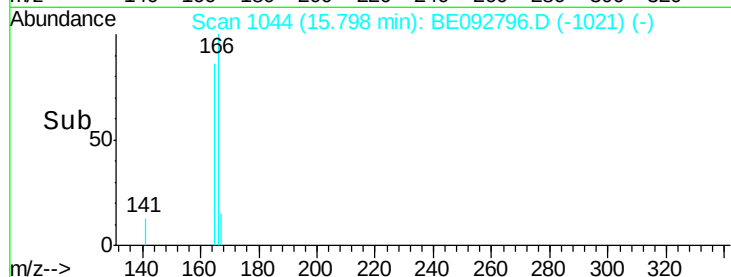
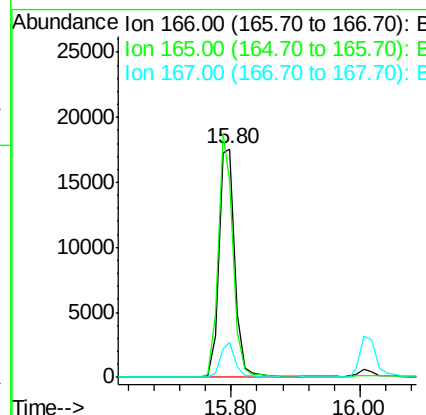
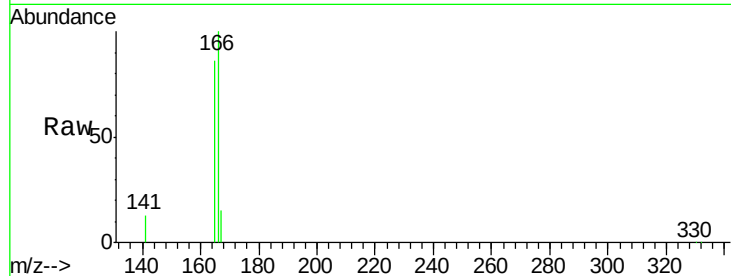
ClientSampleId :

PB97375BSD

Tot Ion:	166	Resp:	31002
Ion Ratio	Lower	Upper	
166	100		
165	98.0	78.2	117.4
167	13.4	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

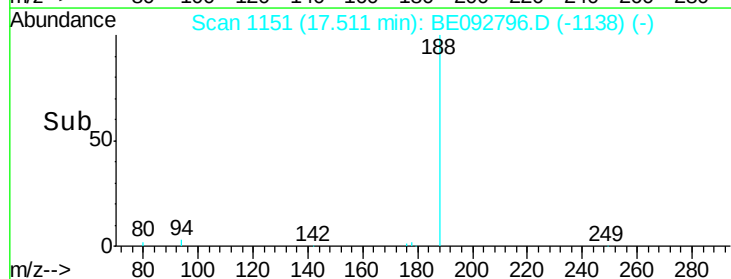
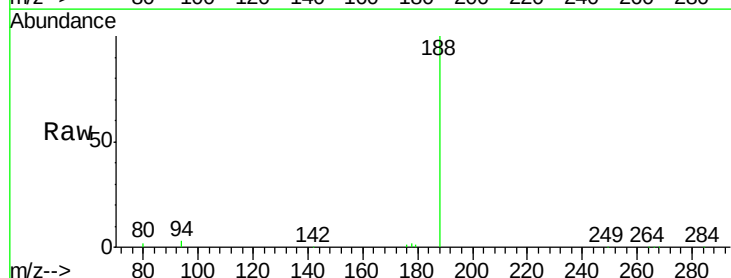
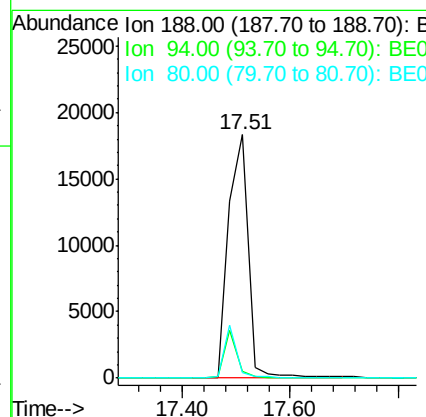
RT: 17.51 min Scan# 1151

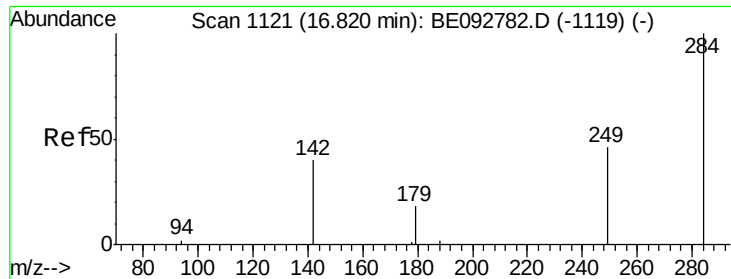
Delta R.T. 0.00 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion:	188	Resp:	45859
Ion Ratio	Lower	Upper	
188	100		
94	2.8	3.2	4.8#
80	2.3	2.6	3.8#





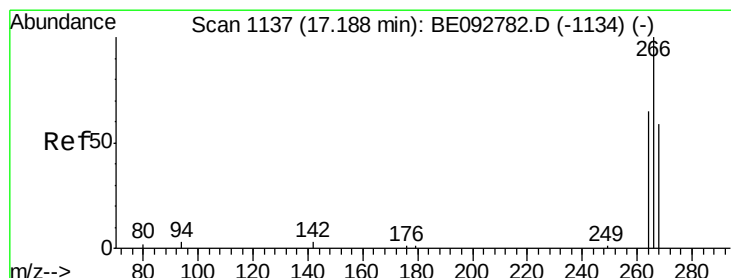
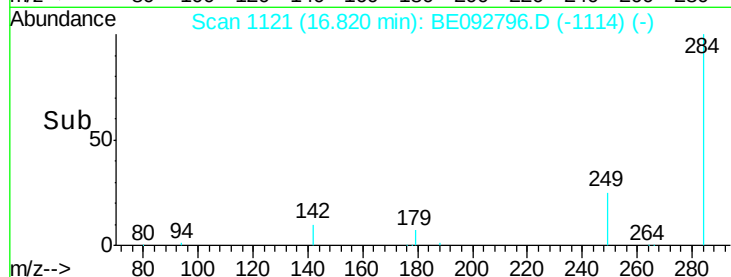
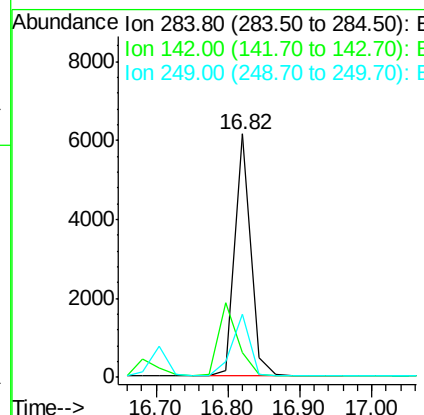
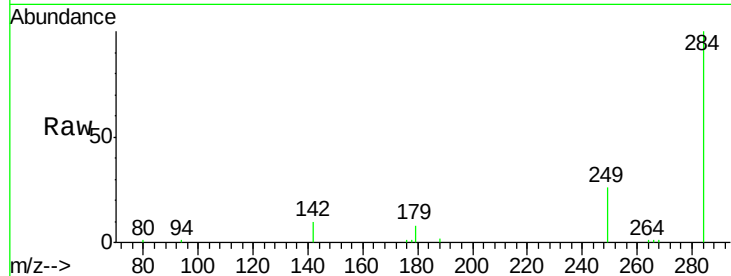
#19
Hexachlorobenzene
Concen: 4.98 ng
RT: 16.82 min Scan# 1121
Delta R.T. -0.02 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Instrument :
BNA_E
ClientSampleId :
PB97375BSD

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	28.5	27.9	41.9

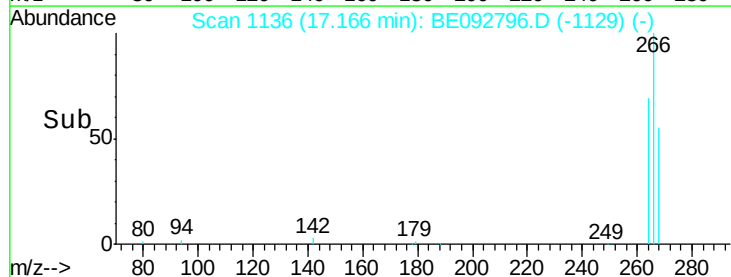
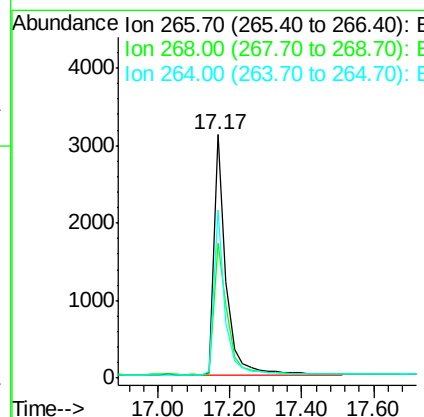
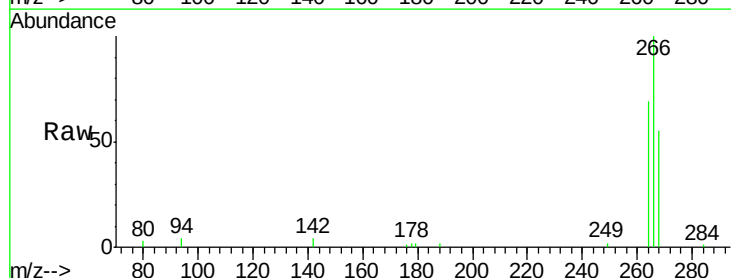
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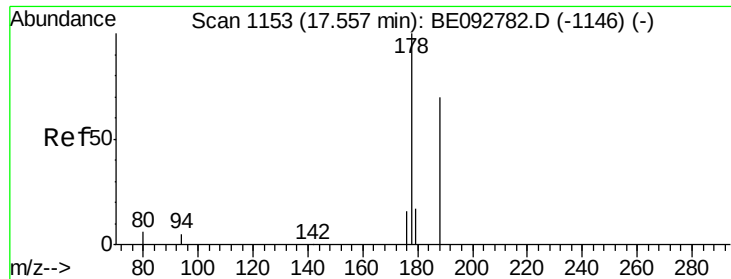
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#20
Pentachlorophenol
Concen: 10.45 ng
RT: 17.17 min Scan# 1136
Delta R.T. -0.14 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Tgt Ion	Ratio	Lower	Upper
266	100		
268	55.2	62.5	93.7#
264	69.0	57.2	85.8





#21

Phenanthrene

Concen: 4.92 ng

RT: 17.53 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

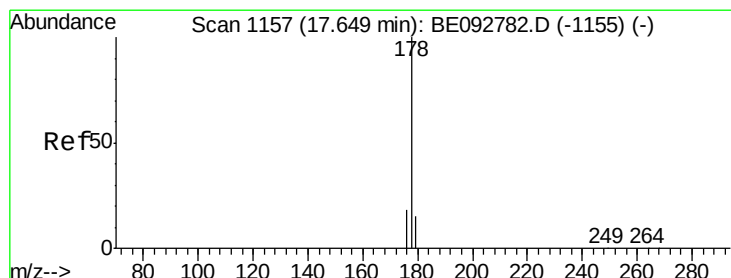
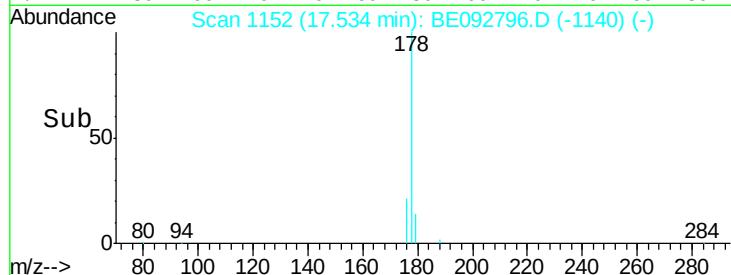
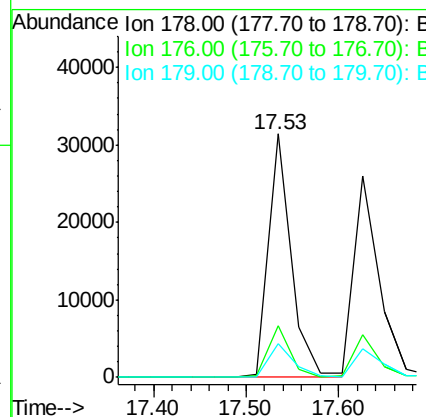
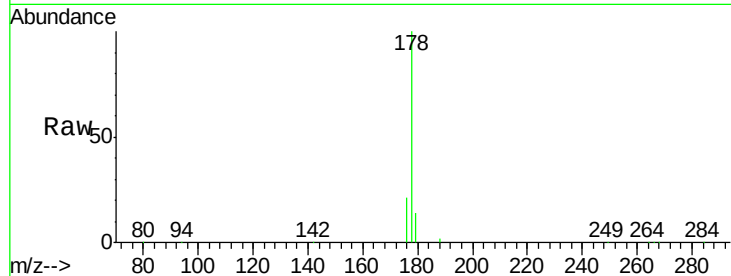
ClientSampleId :

PB97375BSD

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	14.7	16.0	24.0

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#22

Anthracene

Concen: 4.51 ng

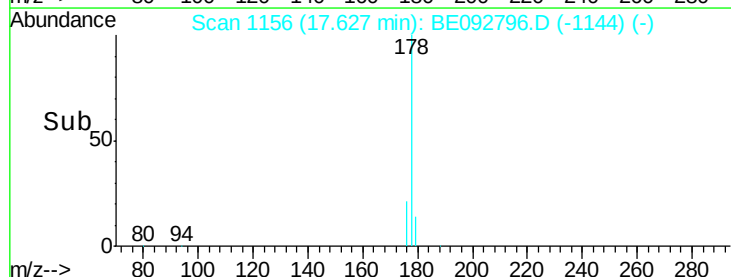
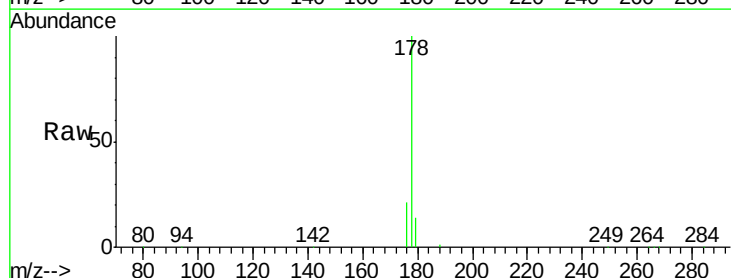
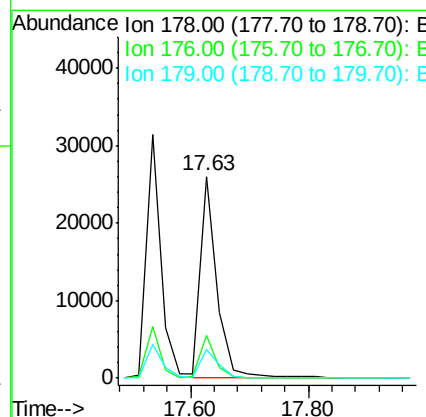
RT: 17.63 min Scan# 1156

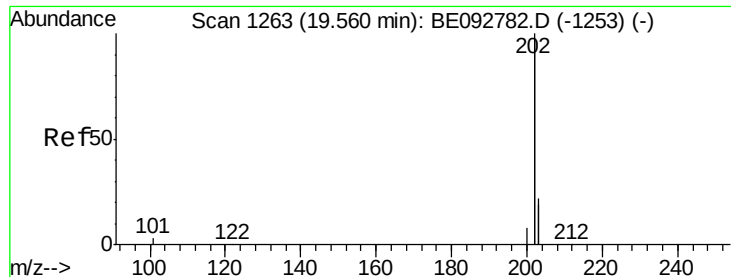
Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.0	22.4
179	15.1	12.2	18.2





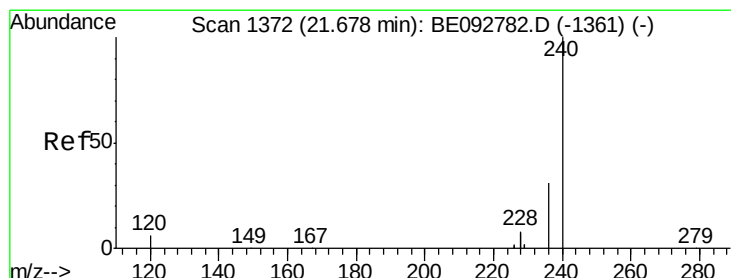
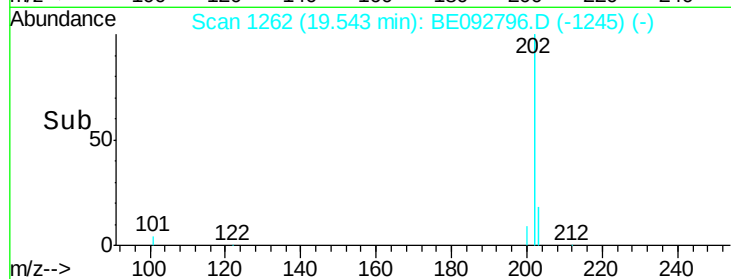
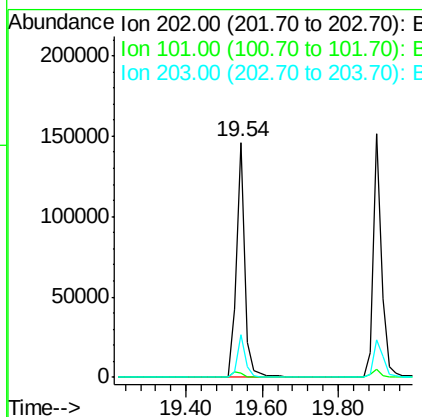
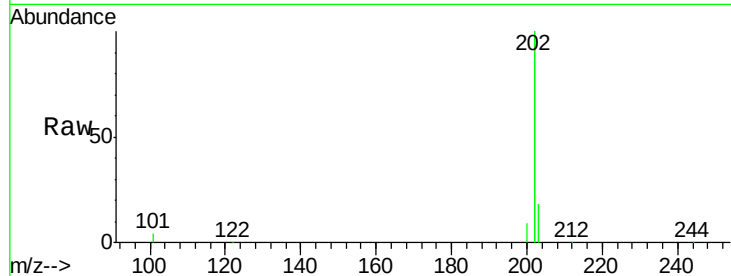
#23
Fluoranthene
Concen: 4.22 ng
RT: 19.54 min Scan# 1262
Delta R.T. -0.02 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Instrument :
BNA_E
ClientSampleId :
PB97375BSD

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	2.9	2.2	3.4
203	17.3	13.7	20.5

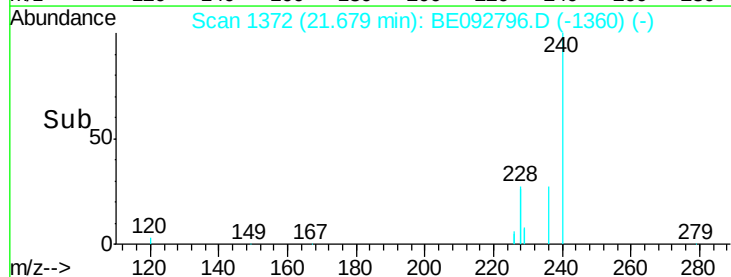
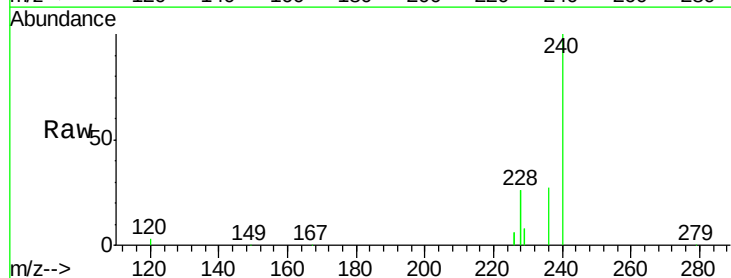
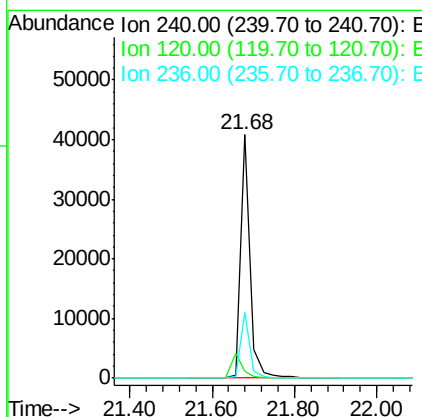
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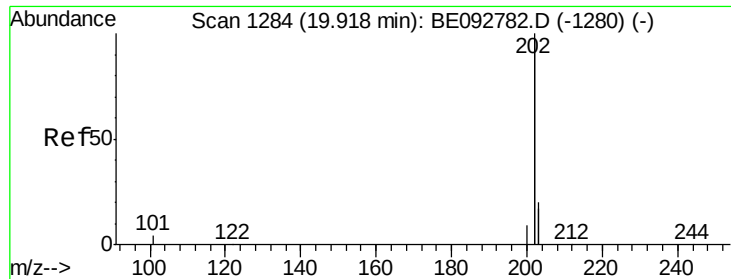
mohammad
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#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.68 min Scan# 1372
Delta R.T. -0.02 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	2.7	2.6	4.0
236	26.8	24.6	37.0





#25

Pvrene

Concen: 3.91 ng

RT: 19.90 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

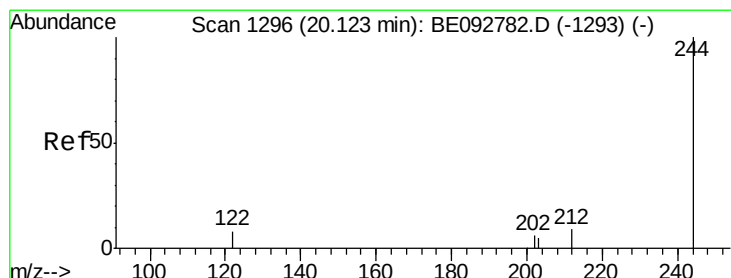
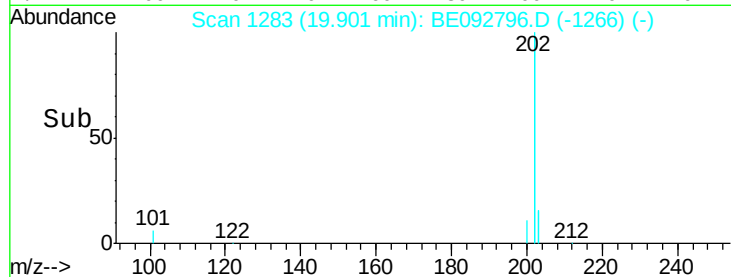
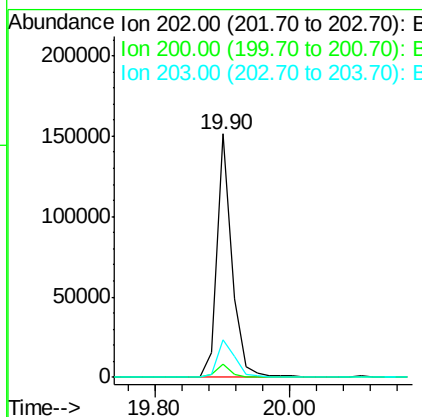
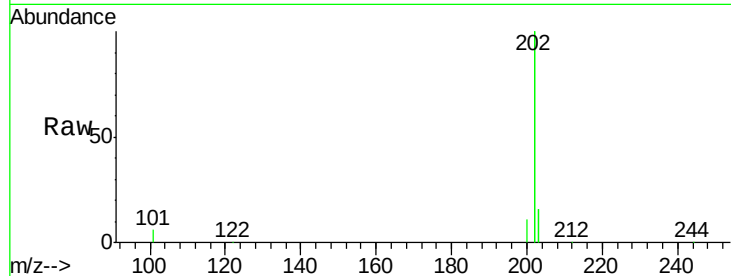
ClientSampleId :

PB97375BSD

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.2	6.4
203	17.9	13.9	20.9

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#26

Terphenyl-d14

Concen: 4.25 ng

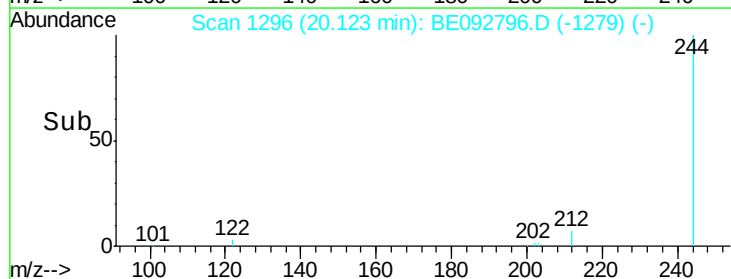
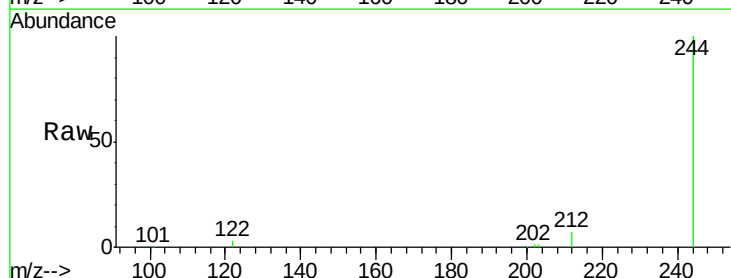
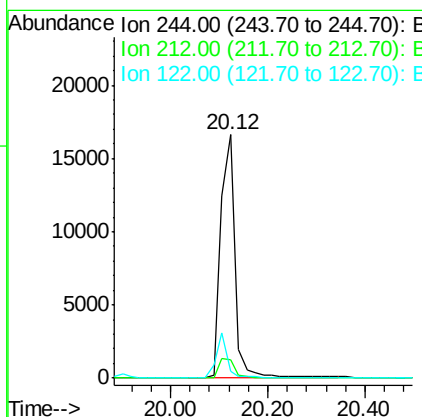
RT: 20.12 min Scan# 1296

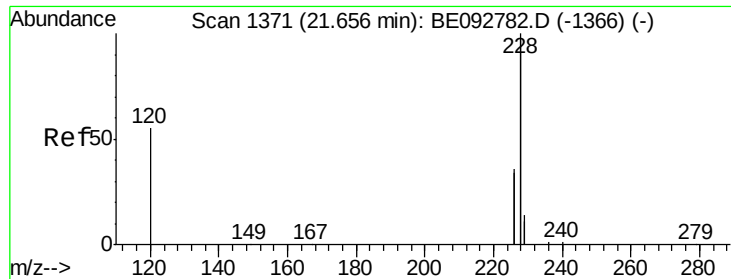
Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.7	10.1
122	3.0	3.6	5.4





#27

Benzo(a)anthracene

Concen: 3.71 ng m

RT: 21.66 min Scan# 1371

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

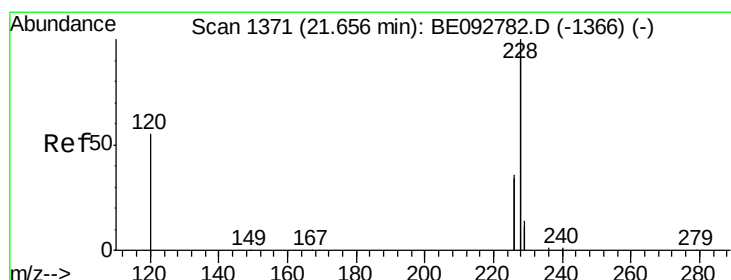
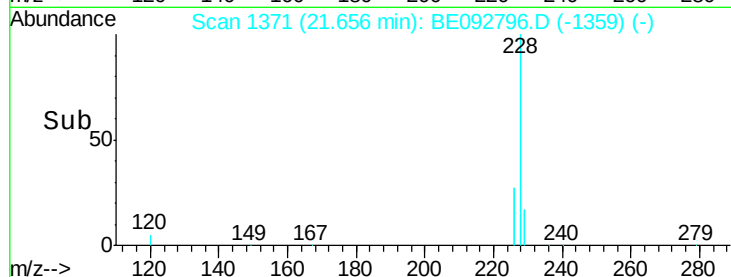
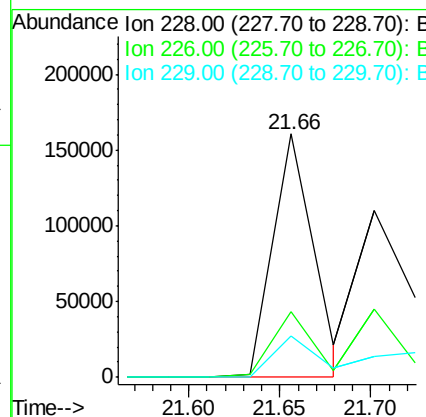
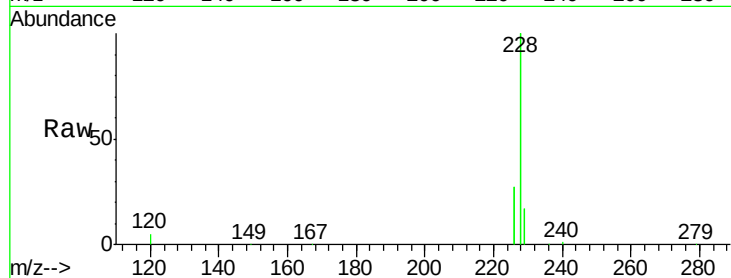
ClientSampleId :

PB97375BSD

Tot Ion:	228	Resp:	250349
Ion Ratio	Lower	Upper	
228	100		
226	26.8	23.6	35.4
229	16.9	13.3	19.9

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#28

Chrysene

Concen: 4.02 ng m

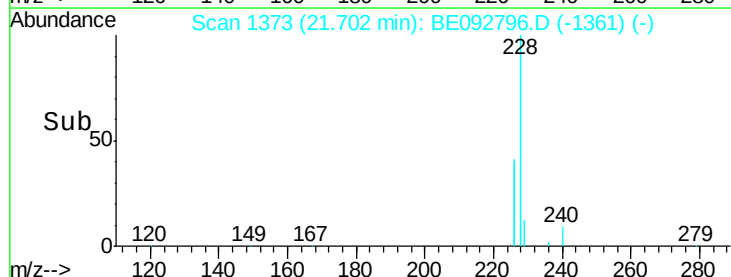
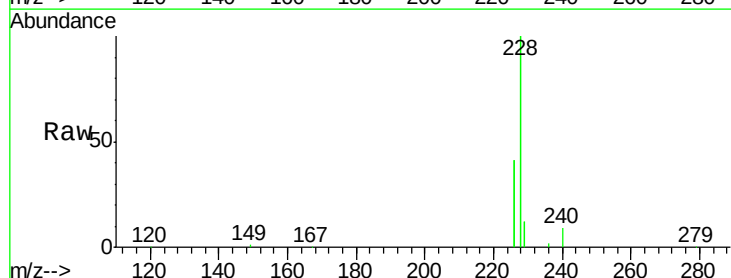
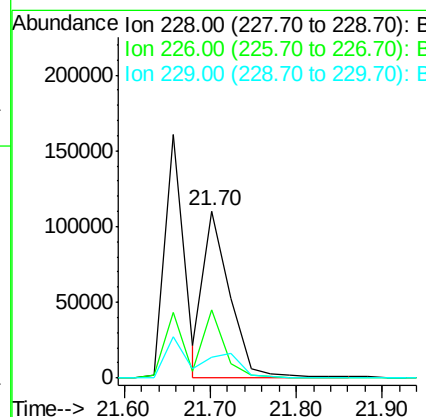
RT: 21.70 min Scan# 1373

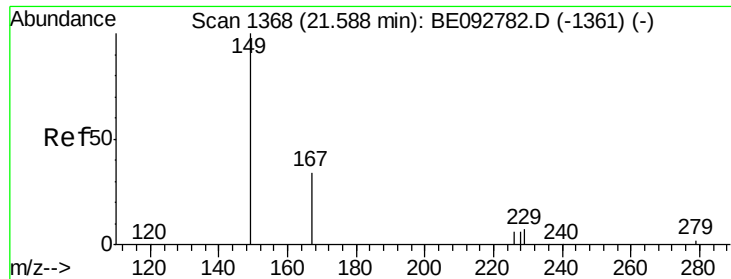
Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion:	228	Resp:	240571
Ion Ratio	Lower	Upper	
228	100		
226	40.8	36.3	54.5
229	12.2	10.6	16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 3.20 ng

RT: 21.57 min Scan# 1367

Delta R.T. -0.02 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Instrument :

BNA_E

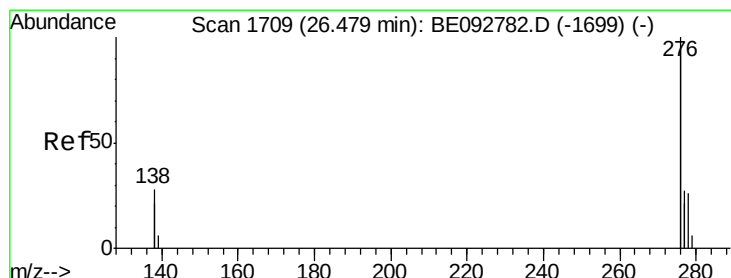
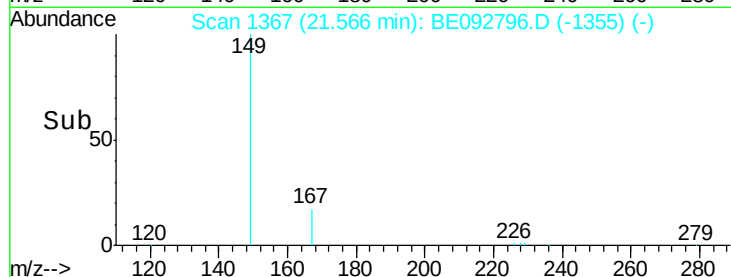
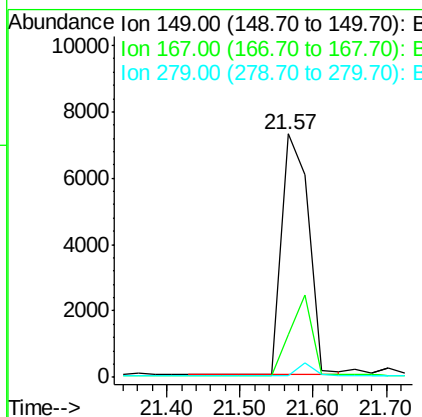
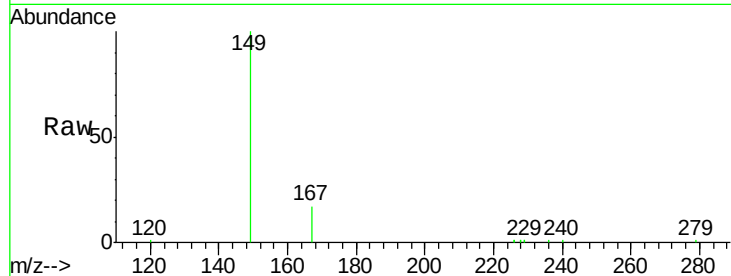
ClientSampleId :

PB97375BSD

Tot Ion:	149	Resp:	18275
Ion Ratio		Lower	Upper
149	100		
167	0.0	16.0	24.0#
279	0.0	16.0	24.0#

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#30

Indeno(1,2,3-cd)pyrene

Concen: 4.46 ng

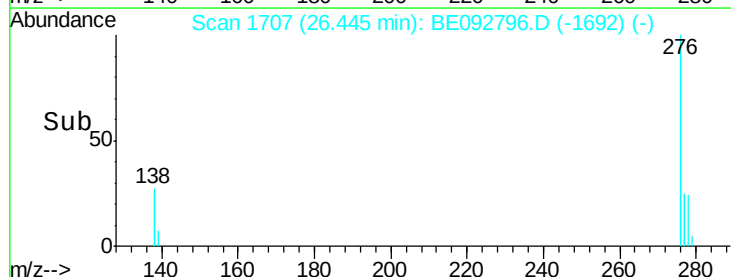
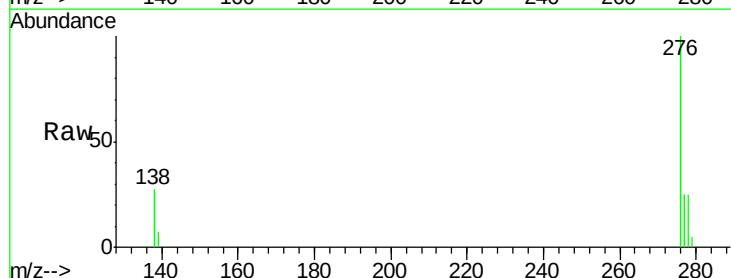
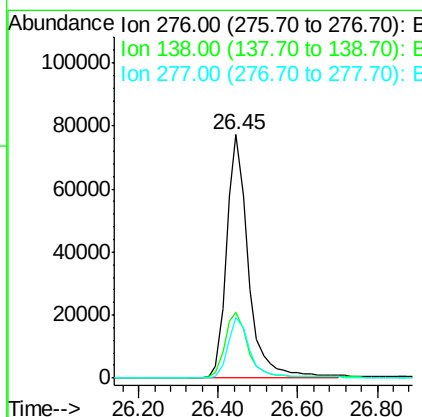
RT: 26.45 min Scan# 1707

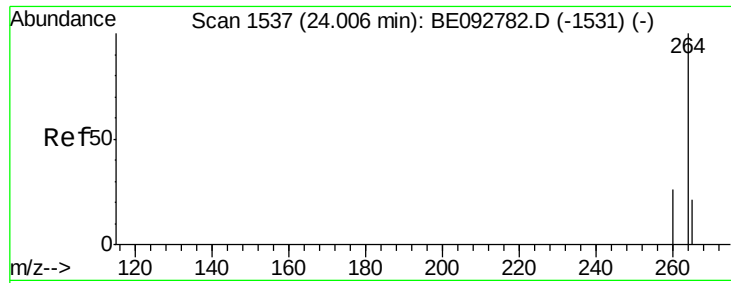
Delta R.T. -0.05 min

Lab File: BE092796.D

Acq: 6 Mar 2017 20:46

Tgt Ion:	276	Resp:	288684
Ion Ratio		Lower	Upper
276	100		
138	28.7	20.3	30.5
277	24.9	19.7	29.5





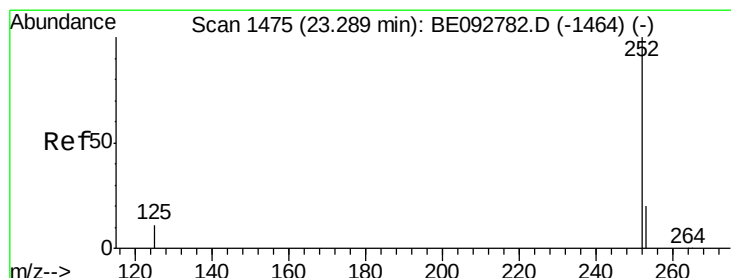
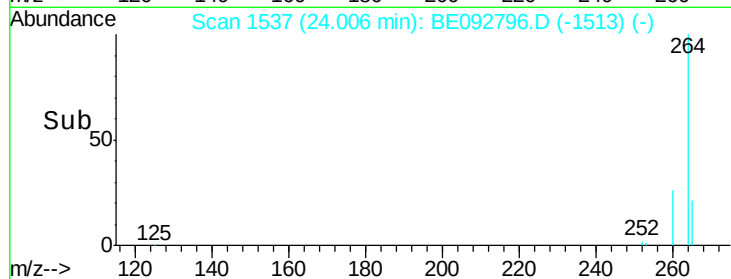
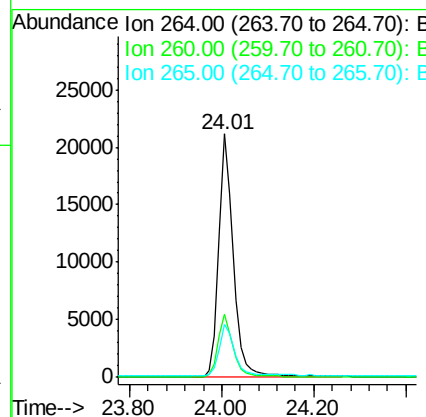
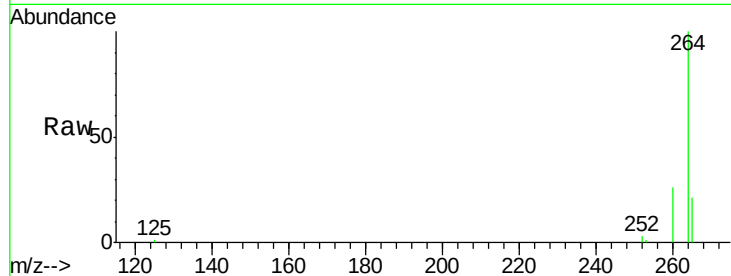
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.01 min Scan# 1537
Delta R.T. -0.02 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Instrument :
BNA_E
ClientSampleId :
PB97375BSD

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.1	20.1	30.1
265	21.5	17.9	26.9

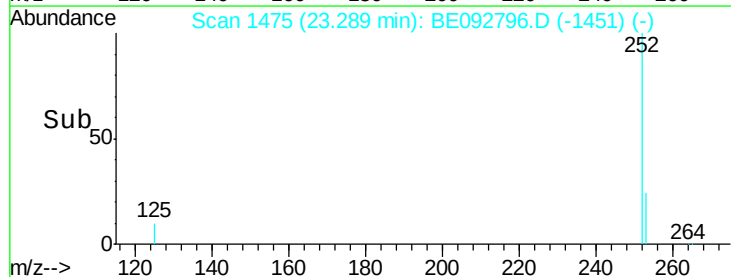
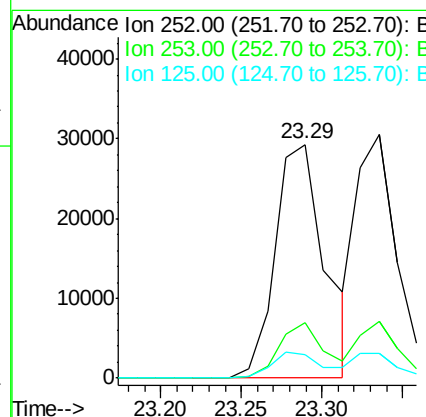
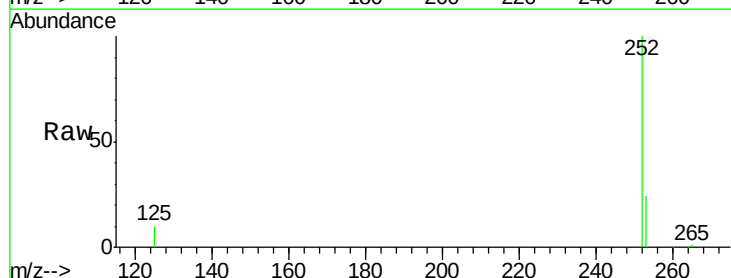
Manual Integrations
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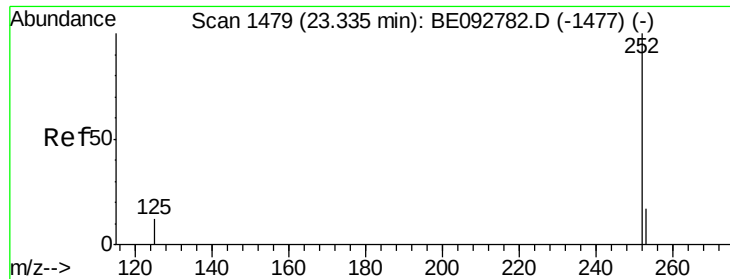
mohammad
3/7/2017 4:23:19 PM



#32
Benzo(b)fluoranthene
Concen: 5.07 ng
RT: 23.29 min Scan# 1475
Delta R.T. -0.02 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.7	28.1
125	9.8	10.5	15.7





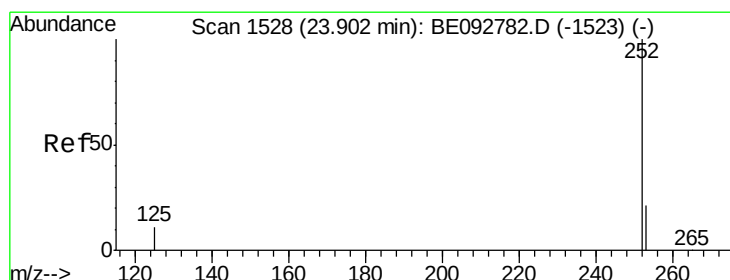
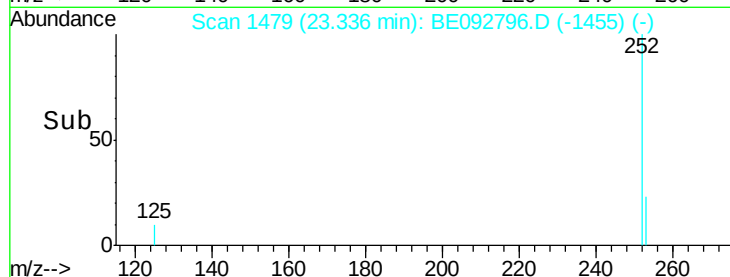
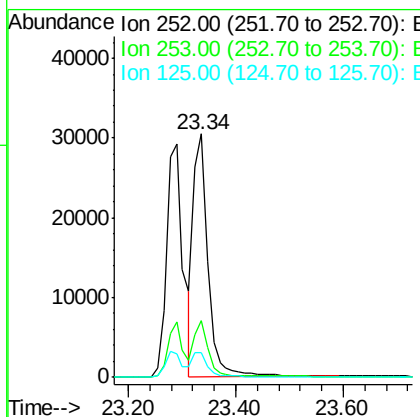
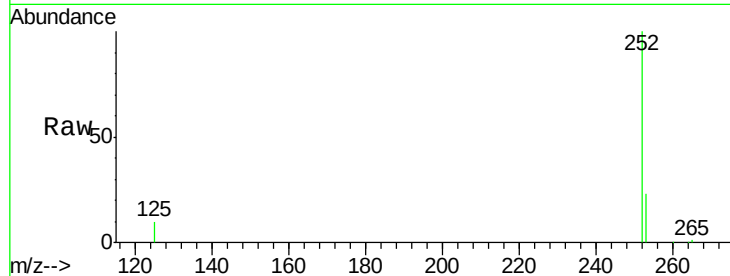
#33
Benzo(k)fluoranthene
Concen: 4.55 ng
RT: 23.34 min Scan# 1479
Delta R.T. -0.02 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Instrument :
BNA_E
ClientSampleId :
PB97375BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	20.3	30.5
125	10.1	9.6	14.4

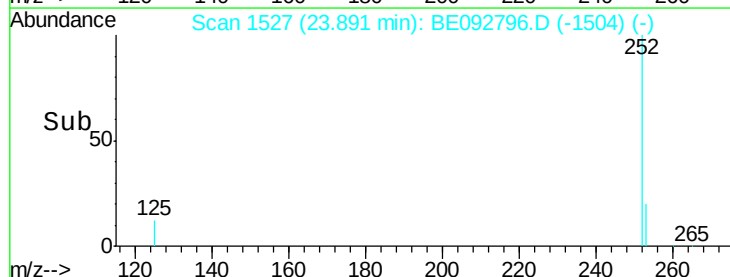
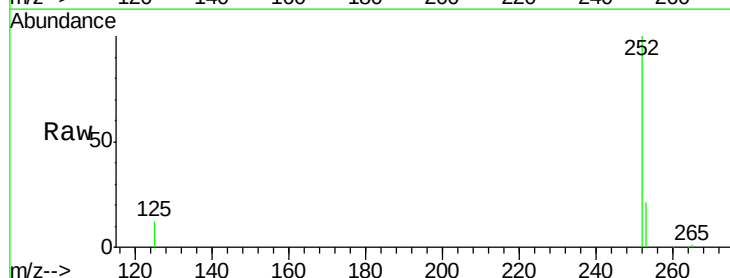
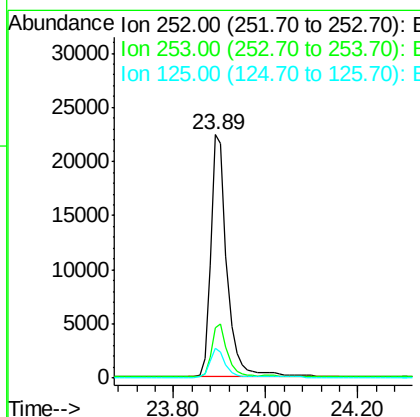
Manual Integrations
APPROVED

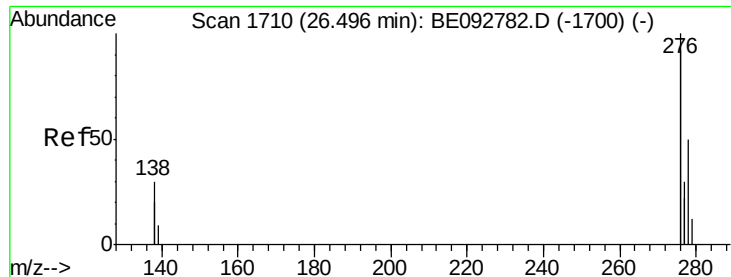
mohammad
3/7/2017 4:23:19 PM



#34
Benzo(a)pyrene
Concen: 4.90 ng
RT: 23.89 min Scan# 1527
Delta R.T. -0.04 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.6	19.0	28.6
125	12.4	11.8	17.8





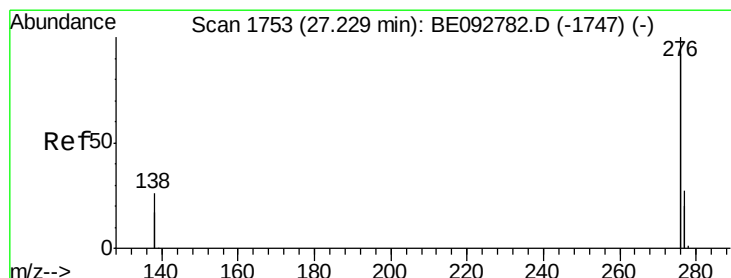
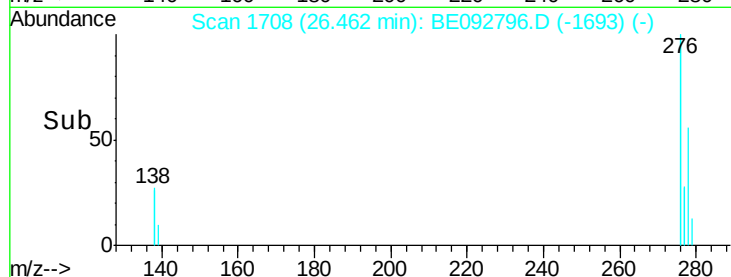
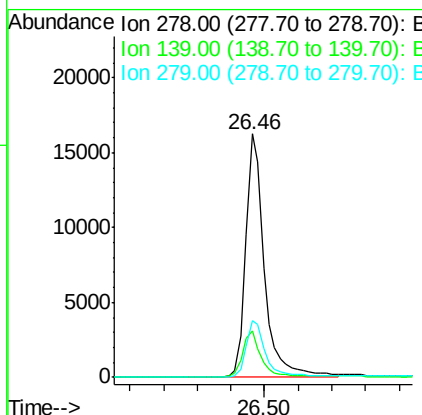
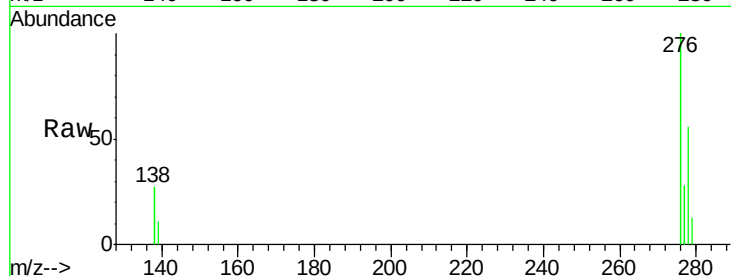
#35
Dibenzo(a,h)anthracene
Concen: 5.78 ng
RT: 26.46 min Scan# 1708
Delta R.T. -0.05 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

Instrument :
BNA_E
ClientSampleId :
PB97375BSD

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.8	13.8	20.8
279	23.1	21.4	32.2

Manual Integrations
APPROVED

mohammad
3/7/2017 4:23:19 PM



#36
Benzo(g,h,i)perylene
Concen: 5.38 ng
RT: 27.20 min Scan# 1751
Delta R.T. -0.05 min
Lab File: BE092796.D
Acq: 6 Mar 2017 20:46

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

