

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031017\
 Data File : BE092813.D
 Acq On : 10 Mar 2017 18:37
 Operator : SJ/MA
 Sample : PB97503BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB97503BS

Manual Integrations
 APPROVED

mohammad
 3/13/2017 4:30:47 PM

Quant Time: Mar 10 23:01:26 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	13748	5.00	ng	-0.02
7) Naphthalene-d8	10.88	136	56853	5.00	ng	-0.02
12) Acenaphthene-d10	14.75	164	28673	5.00	ng	-0.02
18) Phenanthrene-d10	17.51	188	53592	5.00	ng	0.00
24) Chrysene-d12	21.68	240	65827	5.00	ng	-0.02
31) Perylene-d12	24.01	264	58251	5.00	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.60	112	23231	7.99	ng	-0.03
5) Phenol-d6	7.27	99	30136	8.70	ng	-0.05
8) Nitrobenzene-d5	9.27	82	14276	4.11	ng	-0.05
13) 2,4,6-Tribromophenol	16.25	330	6441	8.54	ng	-0.03
14) 2-Fluorobiphenyl	13.36	172	31307	4.63	ng	-0.04
26) Terphenyl-d14	20.12	244	31018	3.90	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.33	88	5153	3.13	ng	# 56
3) n-Nitrosodimethylamine	3.69	42	8366	3.62	ng	# 94
6) bis(2-Chloroethyl)ether	7.52	93	13014	3.44	ng	# 27
9) Naphthalene	10.91	128	42310	3.48	ng	# 95
10) Hexachlorobutadiene	11.20	225	6488	3.70	ng	99
11) 2-Methylnaphthalene	12.55	142	27116	3.45	ng	# 88
15) Acenaphthylene	14.46	152	162867	3.70	ng	100
16) Acenaphthene	14.81	154	25383	4.12	ng	94
17) Fluorene	15.80	166	32312	3.85	ng	99
19) Hexachlorobenzene	16.82	284	9463	4.32	ng	# 65
20) Pentachlorophenol	17.19	266	4847	6.13	ng	89
21) Phenanthrene	17.53	178	51333	3.99	ng	# 94
22) Anthracene	17.63	178	49208	3.80	ng	99
23) Fluoranthene	19.54	202	214654	3.43	ng	100
25) Pyrene	19.90	202	220275	3.69	ng	99
27) Benzo(a)anthracene	21.66	228	220979m	3.25	ng	
28) Chrysene	21.72	228	203066m	3.36	ng	
29) Bis(2-ethylhexyl)phthalate	21.59	149	15175	2.70	ng	# 68
30) Indeno(1,2,3-cd)pyrene	26.44	276	281124	4.30	ng	97
32) Benzo(b)fluoranthene	23.29	252	54773	3.53	ng	95
33) Benzo(k)fluoranthene	23.34	252	54942	3.52	ng	94
34) Benzo(a)pyrene	23.90	252	54358	3.85	ng	# 96
35) Dibenzo(a,h)anthracene	26.48	278	58463	4.34	ng	95
36) Benzo(g,h,i)perylene	27.21	276	247441	4.29	ng	98

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

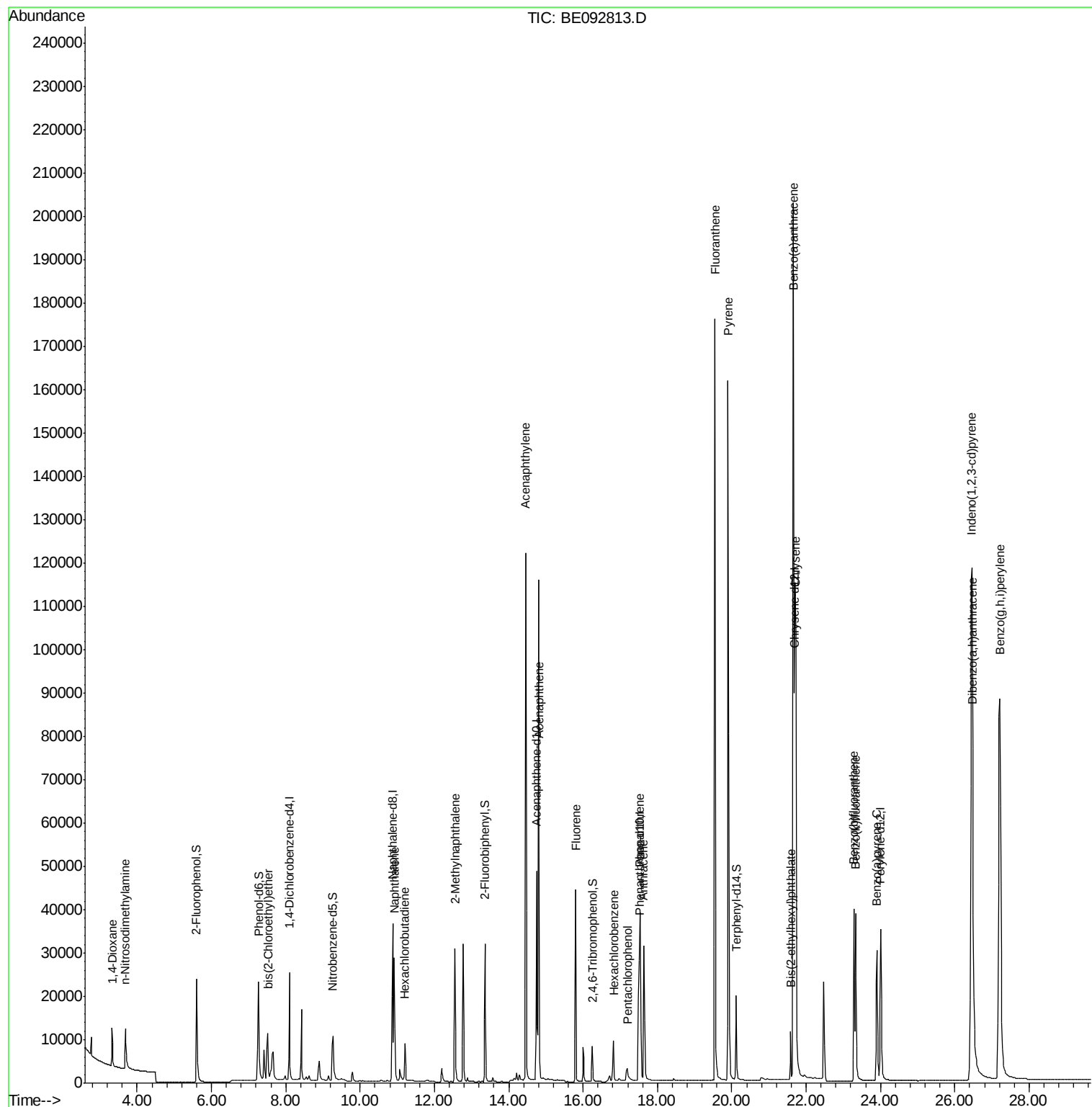
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031017\
Data File : BE092813.D
Acq On : 10 Mar 2017 18:37
Operator : SJ/MA
Sample : PB97503BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

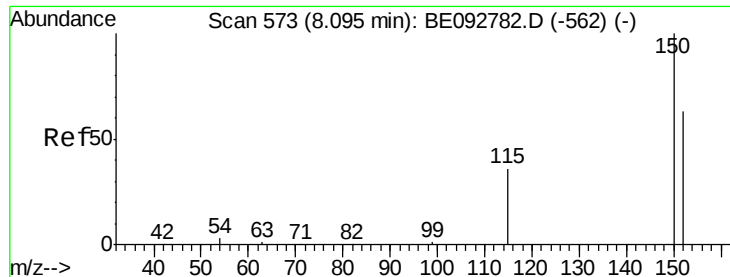
Instrument :
BNA_E
ClientSampleId :
PB97503BS

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Quant Time: Mar 10 23:01:26 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.10 min Scan# 573

Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

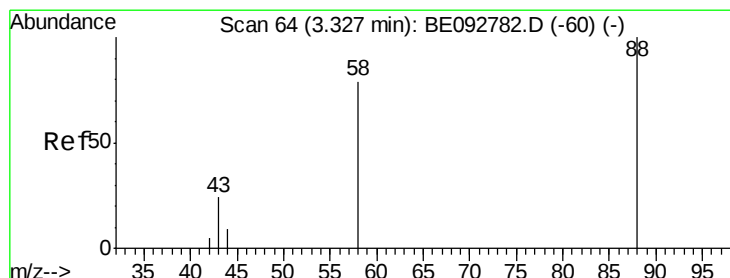
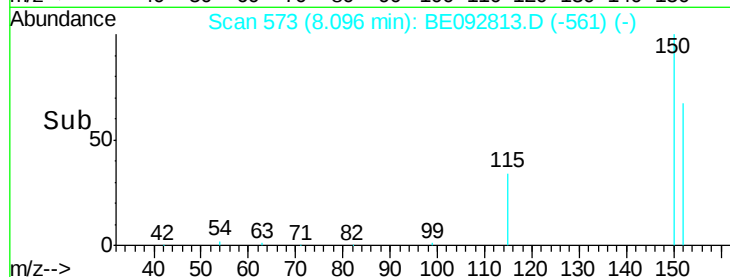
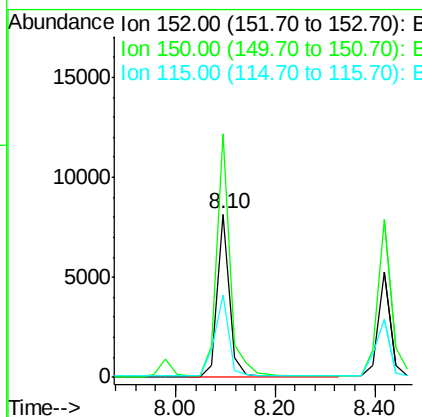
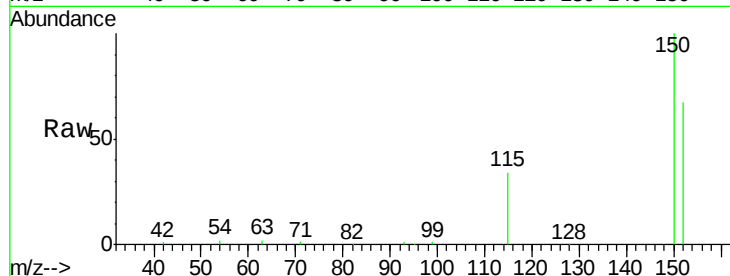
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
152	100		
150	149.4	106.0	159.0
115	50.5	31.2	46.8

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#2

1,4-Dioxane

Concen: 3.13 ng

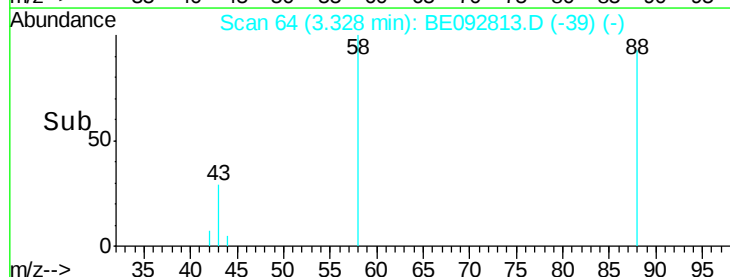
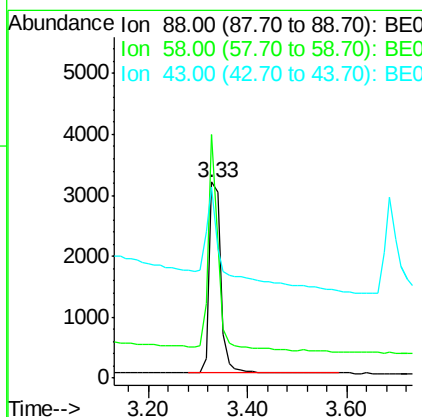
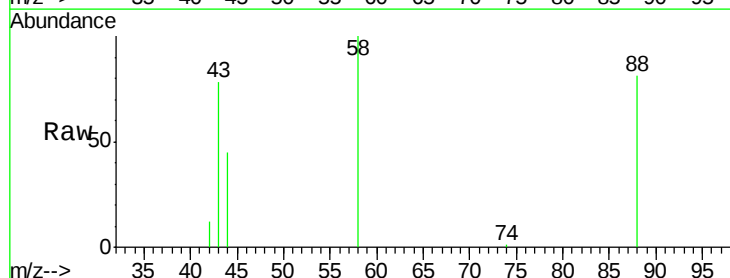
RT: 3.33 min Scan# 64

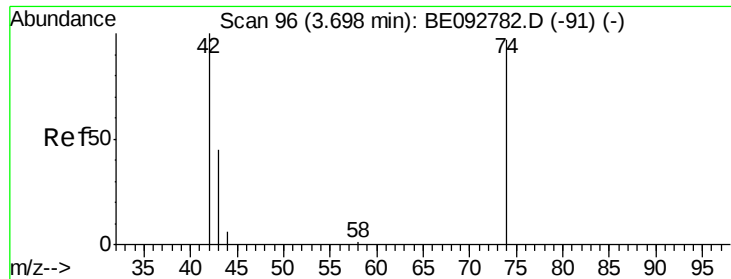
Delta R.T. -0.01 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Lower	Upper
88	100		
58	101.3	63.6	95.4
43	85.0	28.0	42.0





#3

n-Nitrosodimethylamine

Concen: 3.62 ng

RT: 3.69 min Scan# 95

Delta R.T. -0.05 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

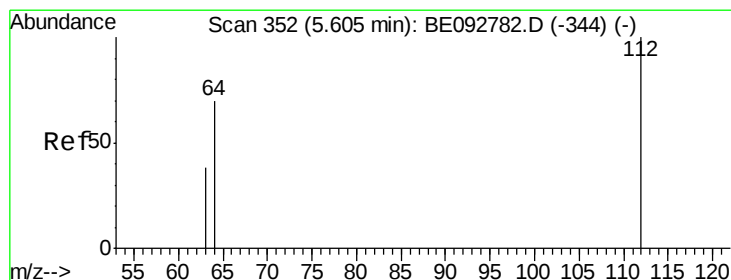
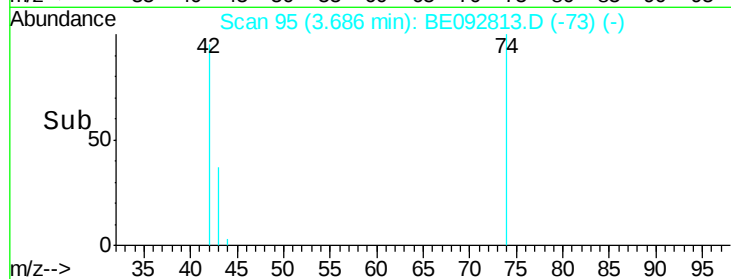
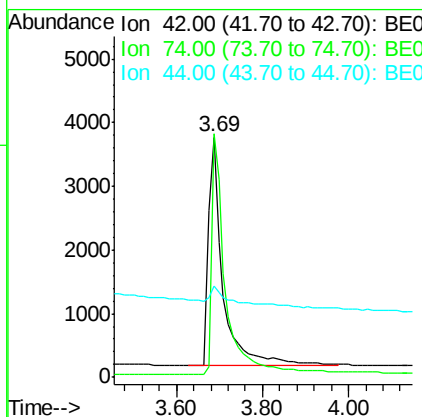
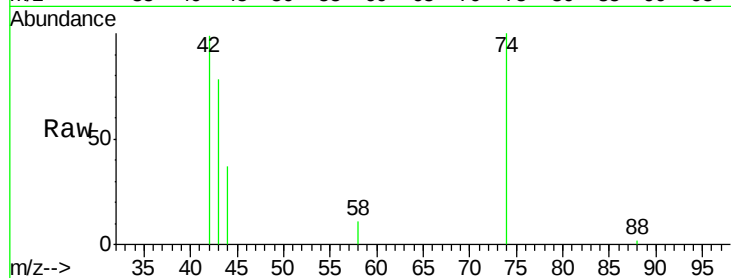
ClientSampleId :

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Tgt Ion:	42	Resp:	8366
Ion	Ratio	Lower	Upper
42	100		
74	103.0	86.0	129.0
44	16.9	5.1	7.7#

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#4

2-Fluorophenol

Concen: 7.99 ng

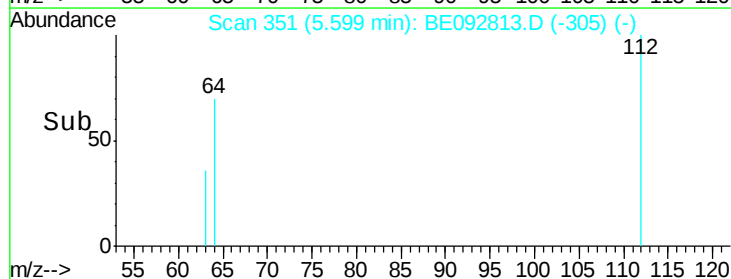
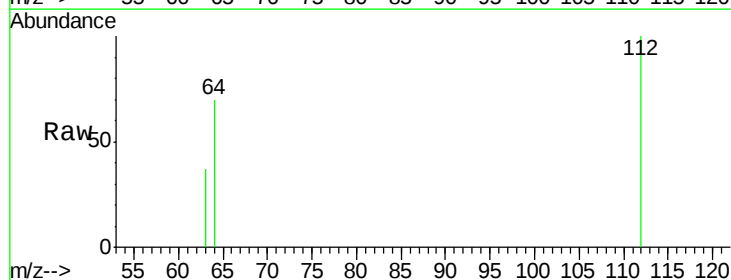
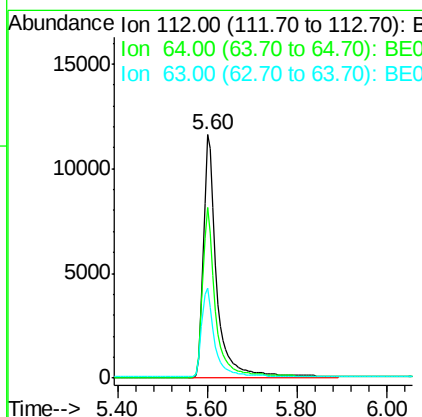
RT: 5.60 min Scan# 351

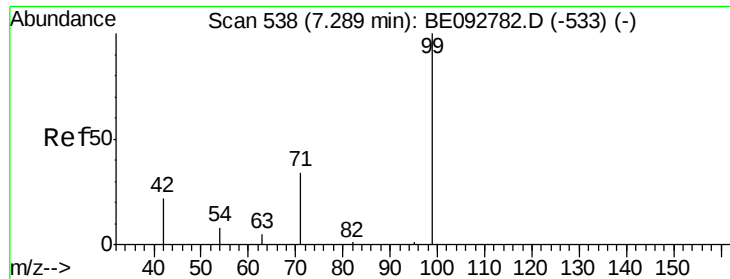
Delta R.T. -0.03 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion:	112	Resp:	23231
Ion	Ratio	Lower	Upper
112	100		
64	68.4	53.5	80.3
63	36.6	27.9	41.9





#5

Phenol-d6

Concen: 8.70 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.05 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

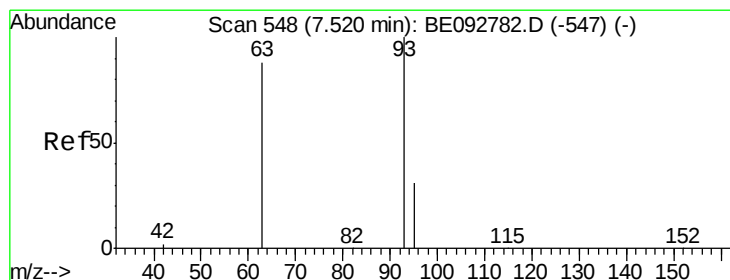
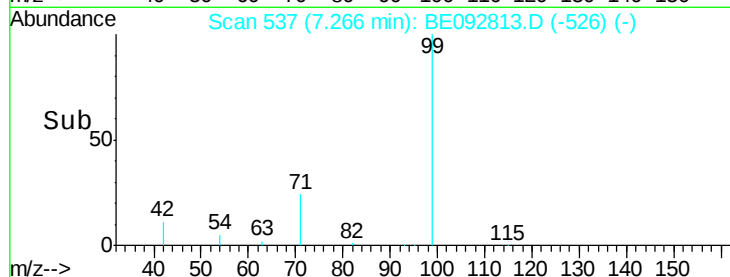
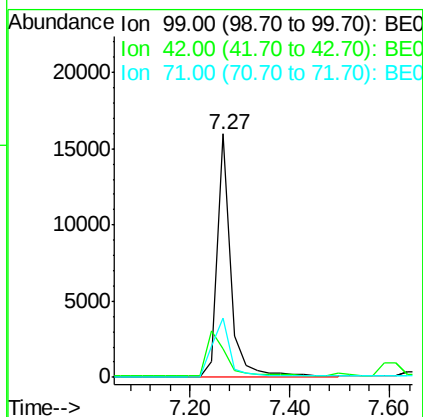
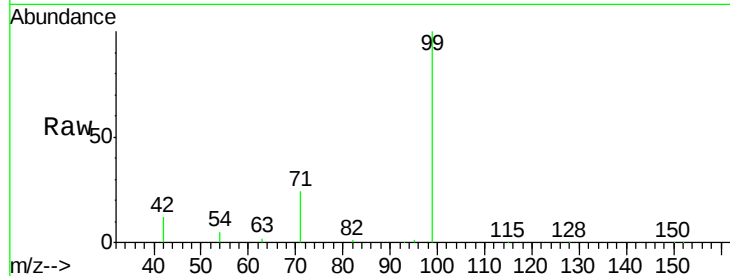
ClientSampleId :

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Tgt Ion	Ratio	Resp	Lower	Upper
99	100	30136		
42	0.0	16.0	24.0#	
71	32.0	30.6	45.8	

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#6

bis(2-Chloroethyl)ether

Concen: 3.44 ng

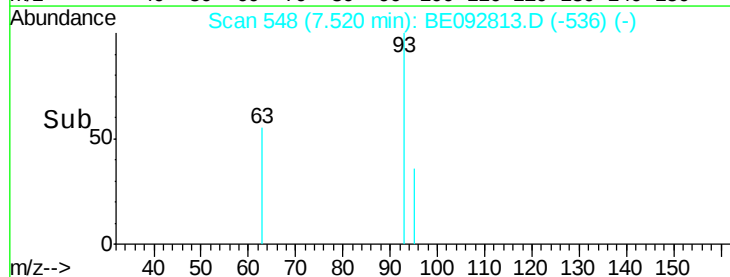
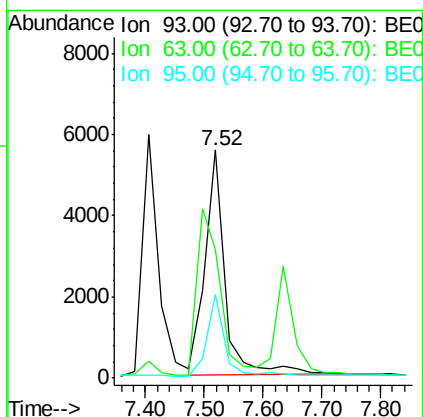
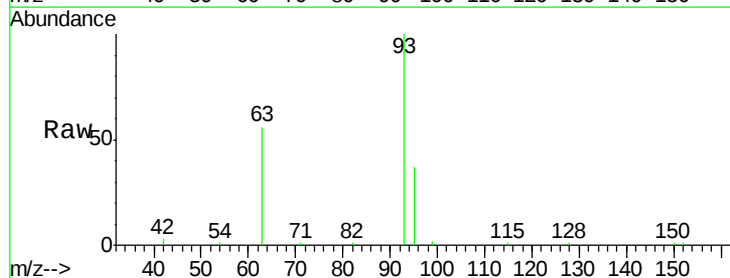
RT: 7.52 min Scan# 548

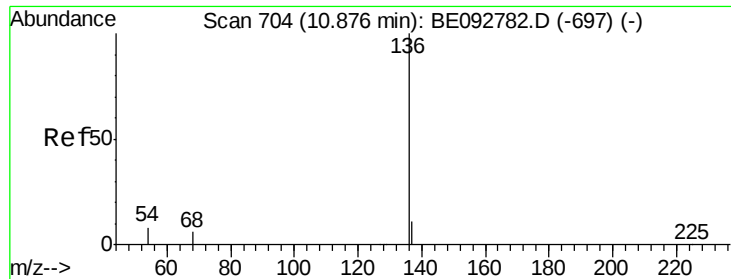
Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	13014		
63	0.0	71.6	107.4#	
95	32.7	24.0	36.0	





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.88 min Scan# 704

Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

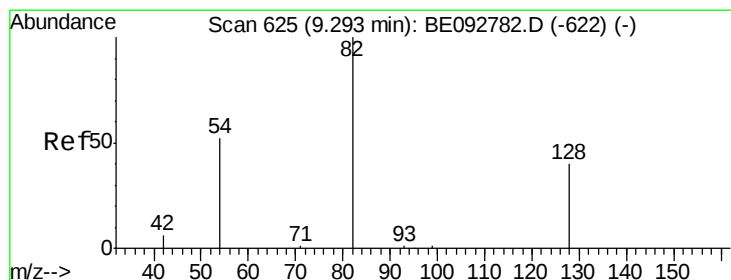
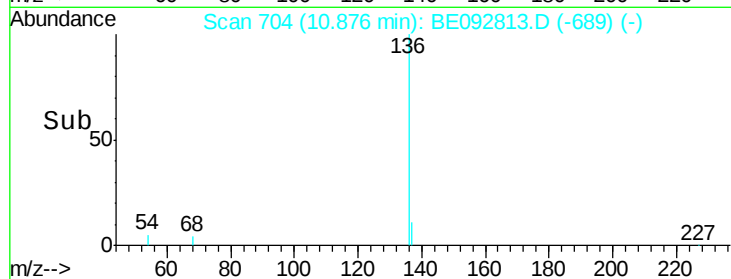
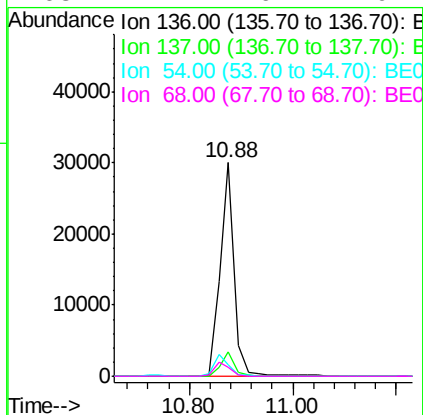
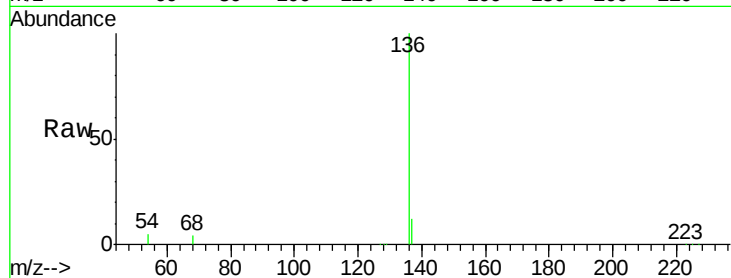
ClientSampleId :

PB97503BS

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	56853		
137	11.6		8.2	12.4
54	5.4		9.6	14.4#
68	4.2		6.7	10.1#

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#8

Nitrobenzene-d5

Concen: 4.11 ng

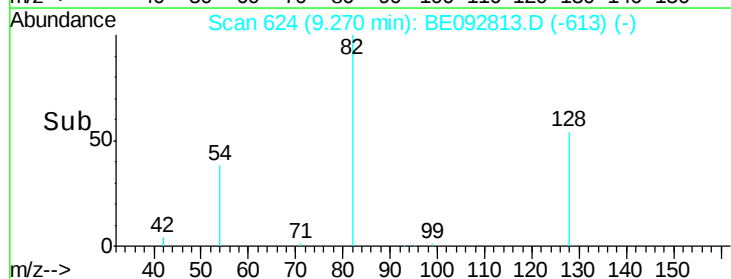
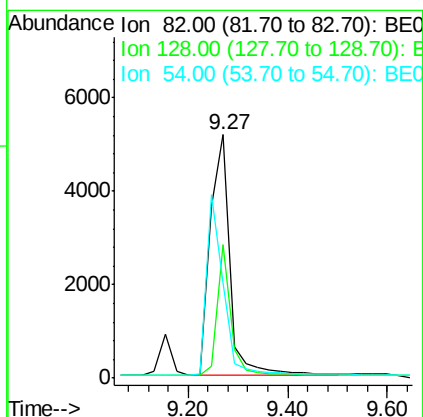
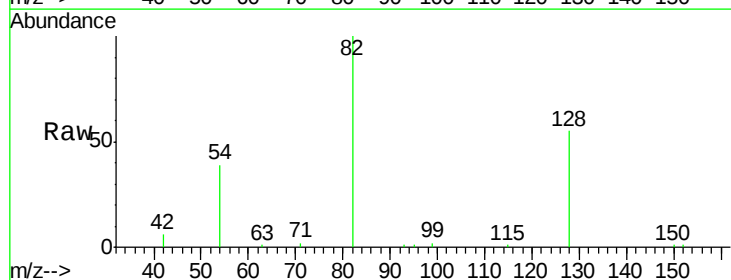
RT: 9.27 min Scan# 624

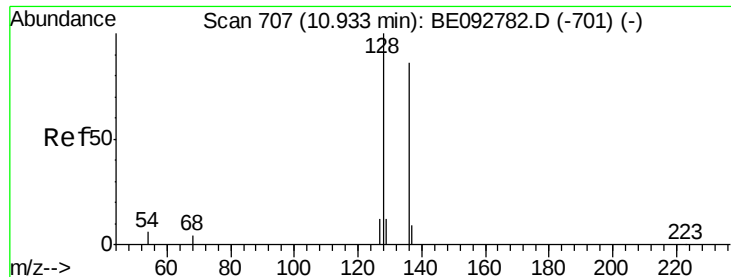
Delta R.T. -0.05 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	14276		
128	54.8		39.0	58.4
54	38.9		44.8	67.2#





#9

Naphthalene

Concen: 3.48 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

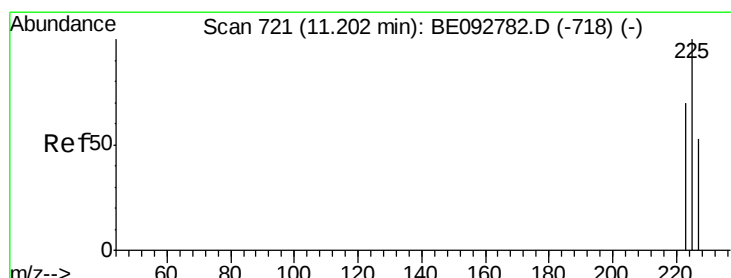
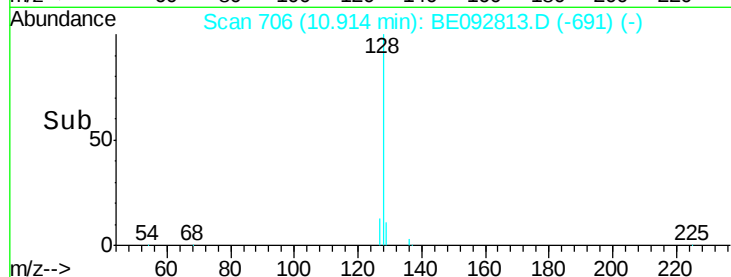
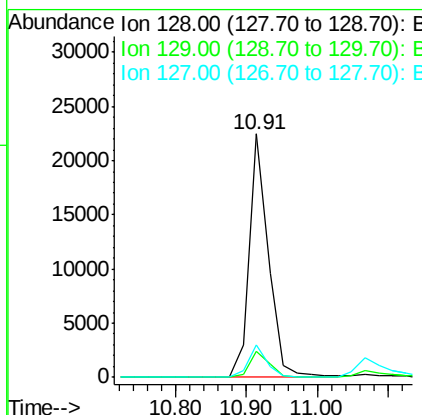
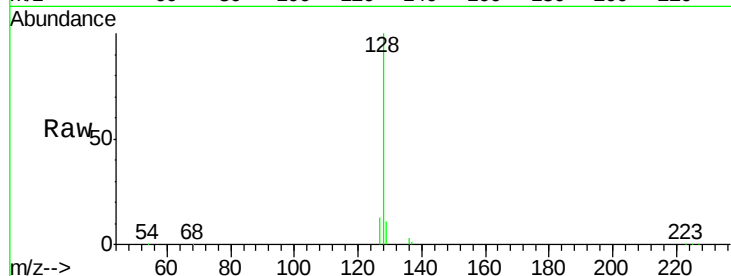
ClientSampleId :

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Tgt Ion:	128	Resp:	42310
Ion Ratio		Lower	Upper
128	100		
129	10.9	11.2	16.8#
127	13.5	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 3.70 ng

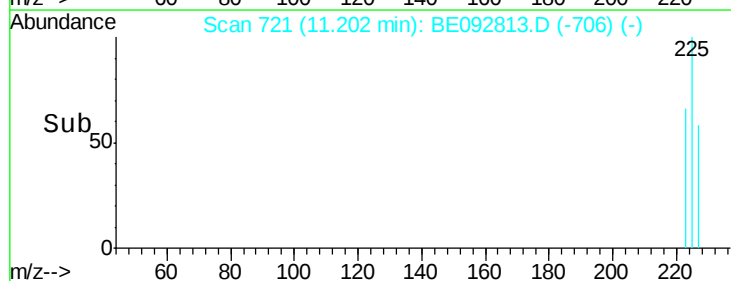
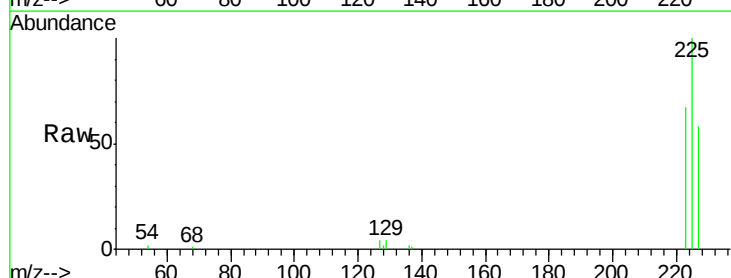
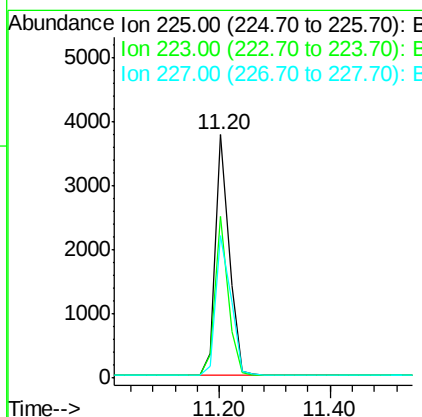
RT: 11.20 min Scan# 721

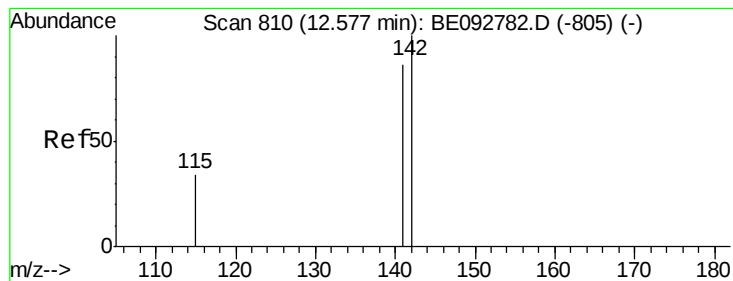
Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion:	225	Resp:	6488
Ion Ratio		Lower	Upper
225	100		
223	63.3	50.6	76.0
227	63.2	51.4	77.0





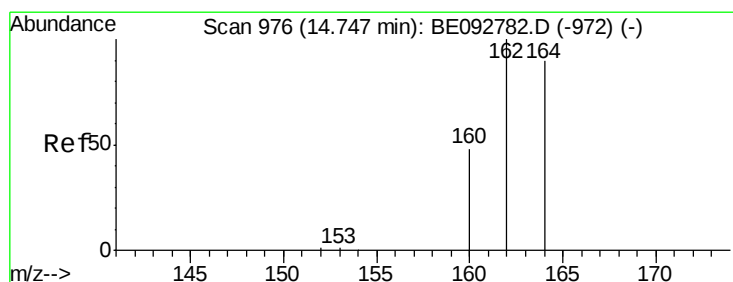
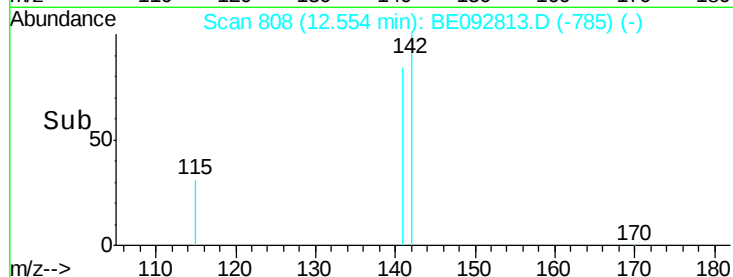
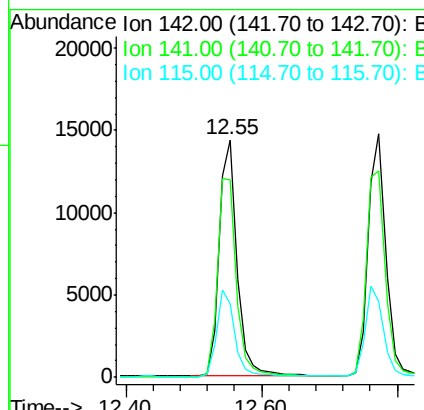
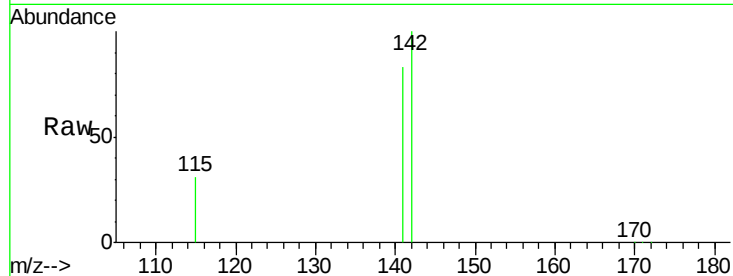
#11
2-Methylnaphthalene
Concen: 3.45 ng
RT: 12.55 min Scan# 808
Delta R.T. -0.04 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Instrument :
BNA_E
ClientSampleId :
PB97503BS

Tgt Ion:142 Resp: 27116
Ion Ratio Lower Upper
142 100
141 83.1 73.7 110.5
115 30.9 34.0 51.0#

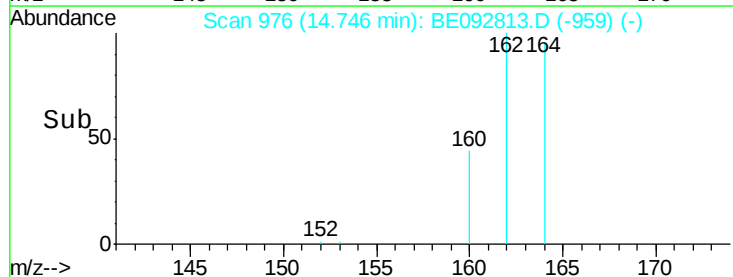
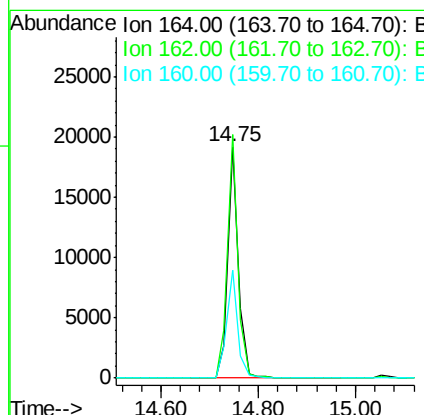
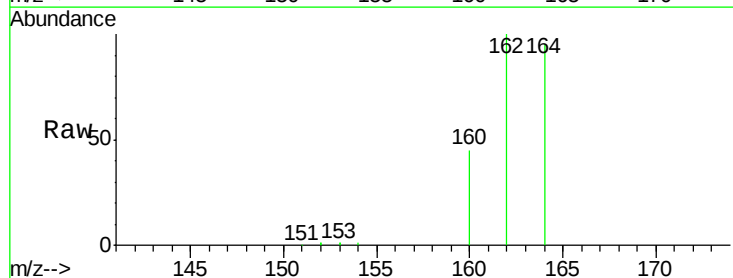
Manual Integrations
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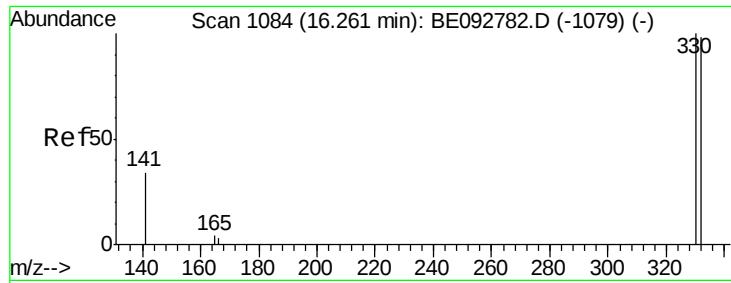
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.75 min Scan# 976
Delta R.T. -0.02 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Tgt Ion:164 Resp: 28673
Ion Ratio Lower Upper
164 100
162 105.3 71.4 107.0
160 46.9 27.4 41.2#





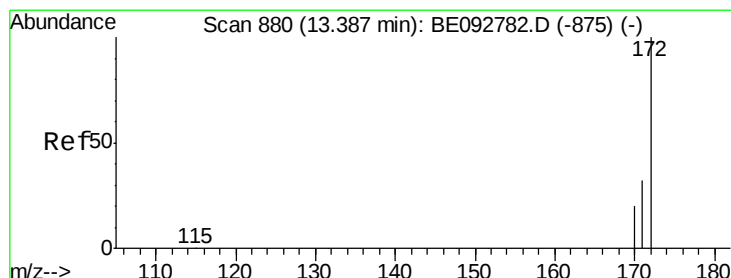
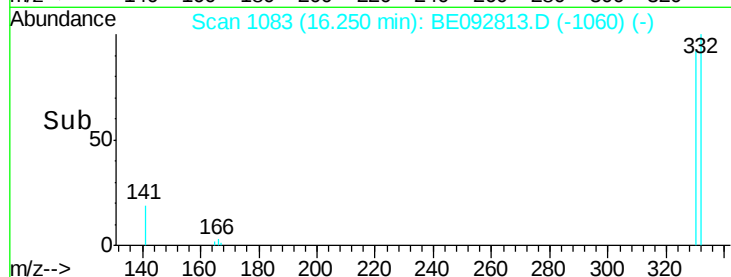
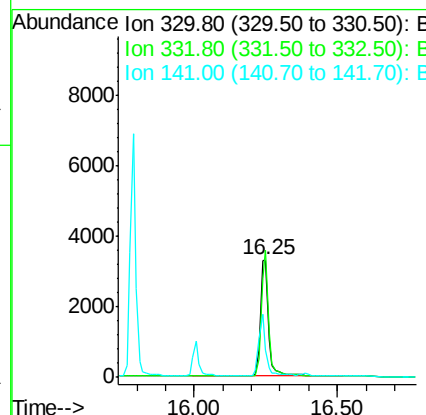
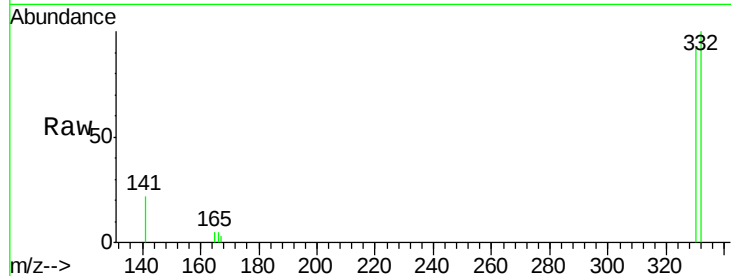
#13
 2,4,6-Tribromophenol
 Concen: 8.54 ng
 RT: 16.25 min Scan# 1083
 Delta R.T. -0.03 min
 Lab File: BE092813.D
 Acq: 10 Mar 2017 18:37

Instrument :
 BNA_E
 ClientSampleId :
 PB97503BS

Tgt Ion: 330 Resp: 6441
 Ion Ratio Lower Upper
 330 100
 332 98.1 75.4 113.0
 141 43.9 31.0 46.6

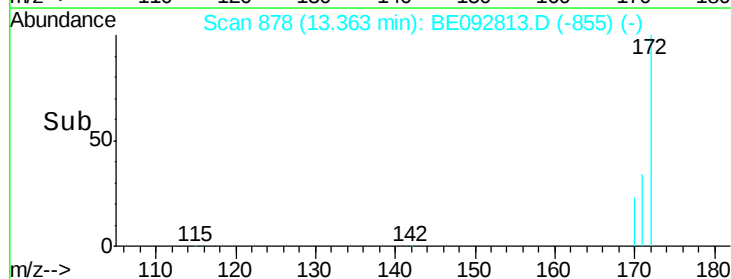
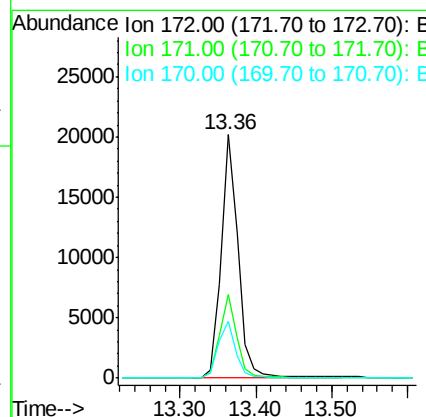
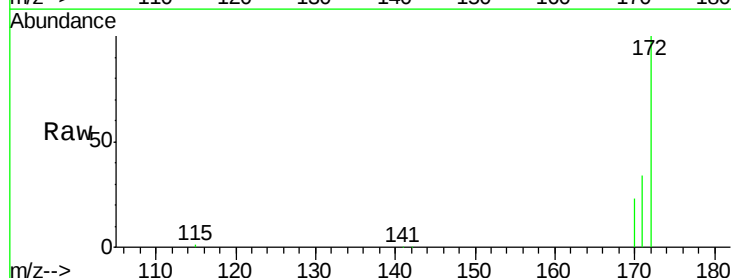
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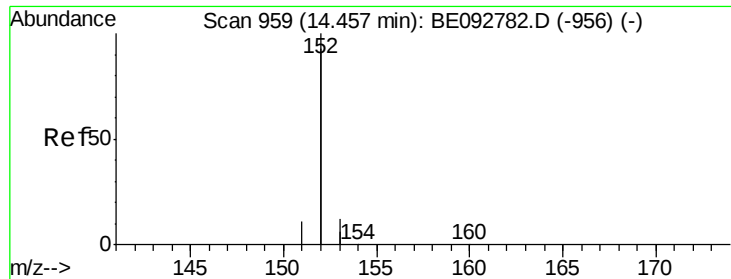
mohammad
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#14
 2-Fluorobiphenyl
 Concen: 4.63 ng
 RT: 13.36 min Scan# 878
 Delta R.T. -0.04 min
 Lab File: BE092813.D
 Acq: 10 Mar 2017 18:37

Tgt Ion: 172 Resp: 31307
 Ion Ratio Lower Upper
 172 100
 171 34.2 30.1 45.1
 170 23.2 21.8 32.6





#15

Acenaphthylene

Concen: 3.70 ng

RT: 14.46 min Scan# 959

Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

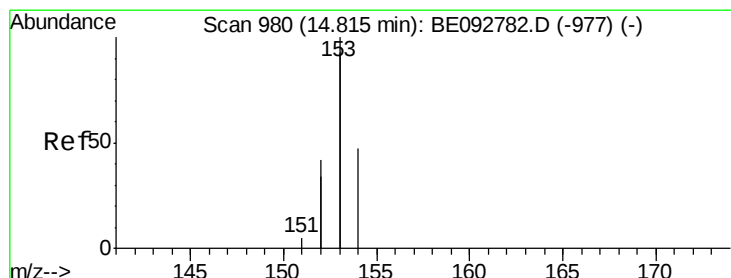
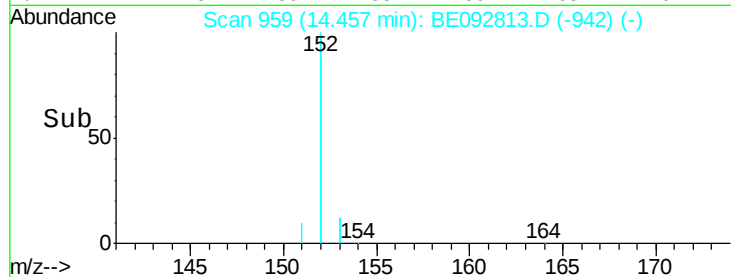
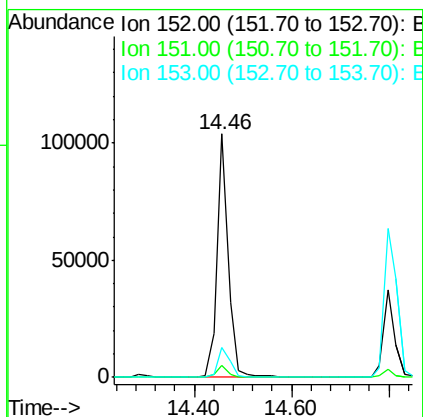
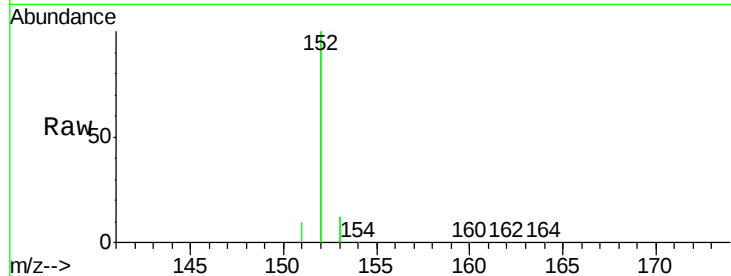
ClientSampleId :

PB97503BS

Tgt Ion:	152	Resp:	162867
Ion Ratio		Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.2	10.4	15.6

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#16

Acenaphthene

Concen: 4.12 ng

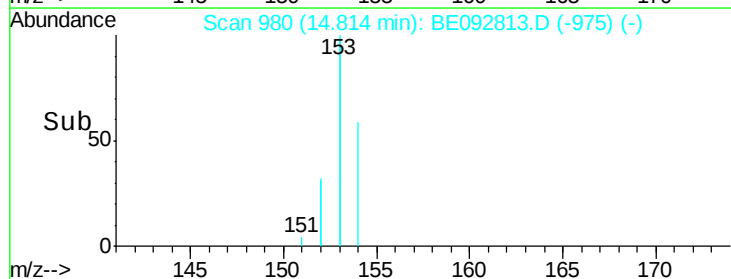
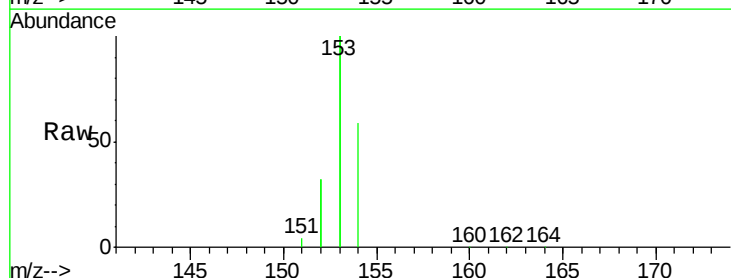
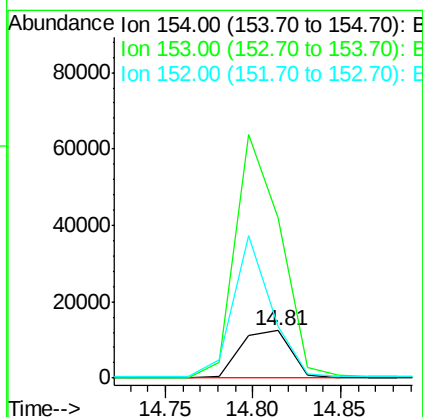
RT: 14.81 min Scan# 980

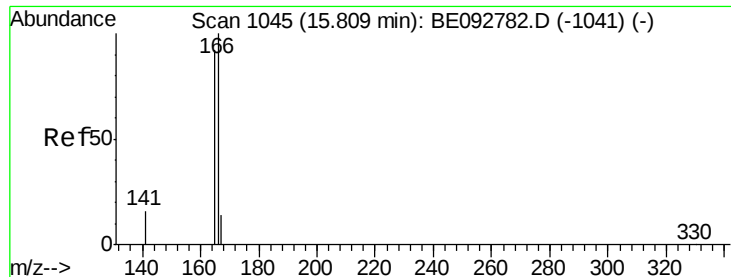
Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion:	154	Resp:	25383
Ion Ratio		Lower	Upper
154	100		
153	451.3	350.8	526.2
152	225.6	171.1	256.7





#17

Fluorene

Concen: 3.85 ng

RT: 15.80 min Scan# 1044

Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

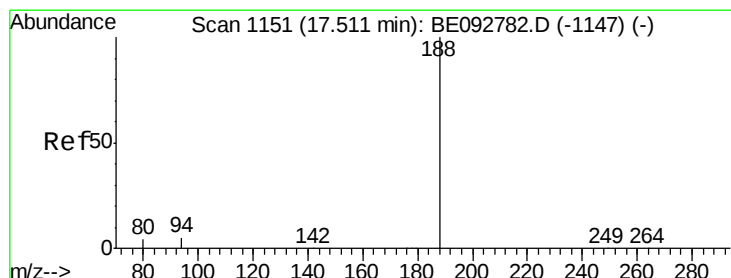
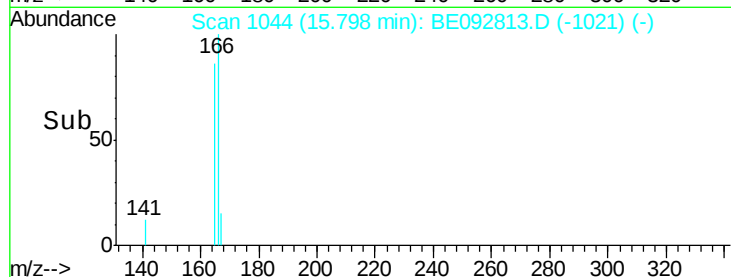
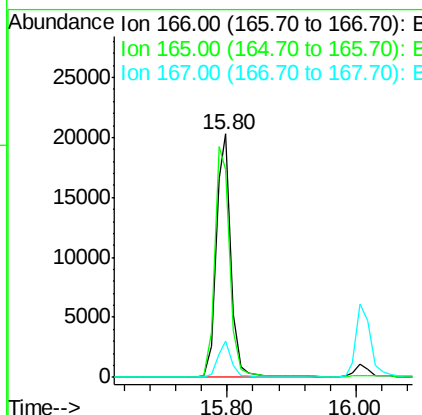
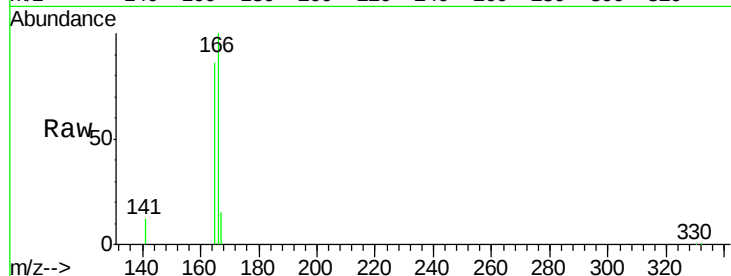
ClientSampleId :

PB97503BS

Tgt Ion:	166	Resp:	32312
Ion Ratio	Lower	Upper	
166	100		
165	98.7	78.2	117.4
167	13.4	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

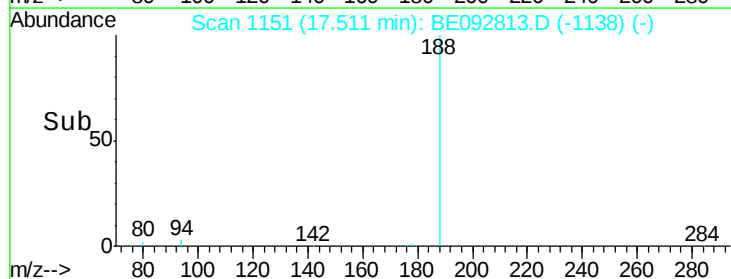
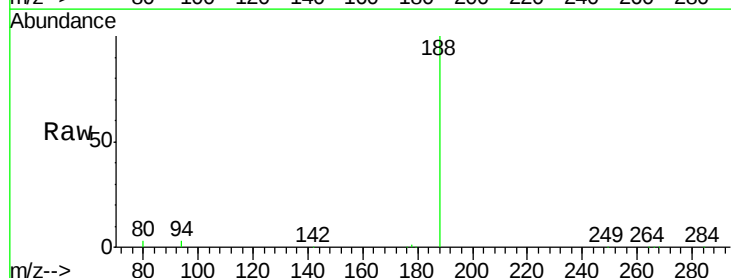
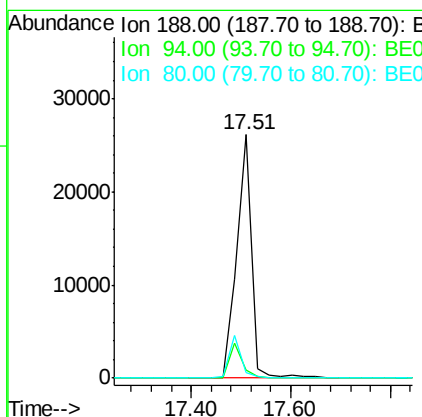
RT: 17.51 min Scan# 1151

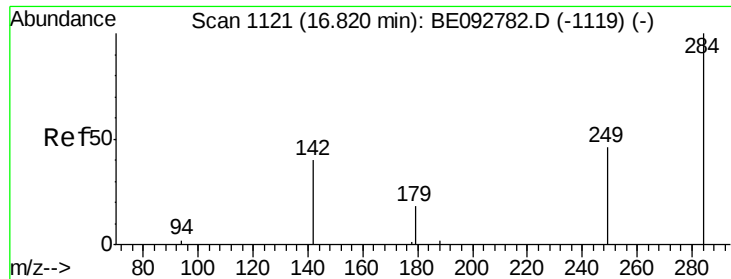
Delta R.T. 0.00 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion:	188	Resp:	53592
Ion Ratio	Lower	Upper	
188	100		
94	3.1	3.2	4.8#
80	2.5	2.6	3.8#





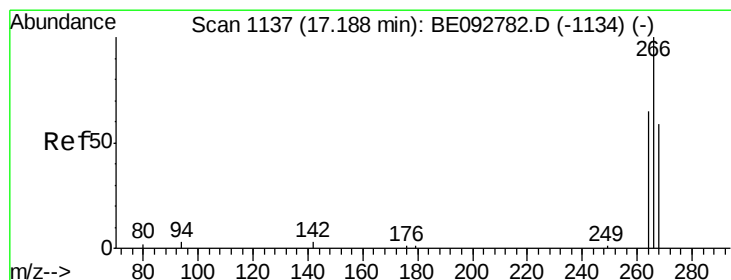
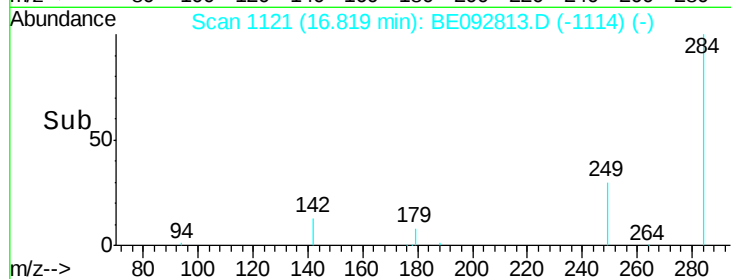
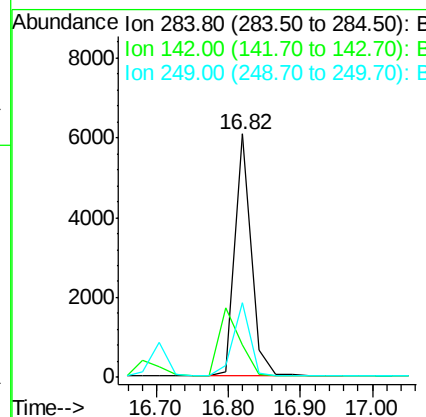
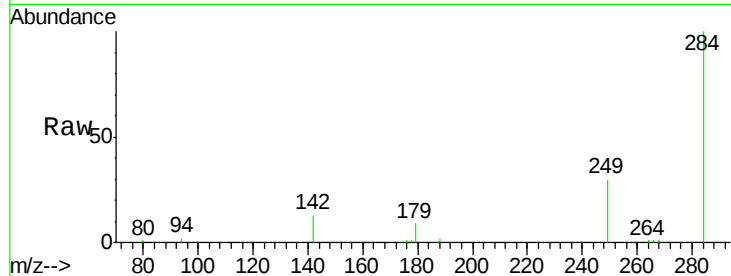
#19
Hexachlorobenzene
Concen: 4.32 ng
RT: 16.82 min Scan# 1121
Delta R.T. -0.02 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Instrument :
BNA_E
ClientSampleId :
PB97503BS

Tgt Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	31.0	27.9	41.9

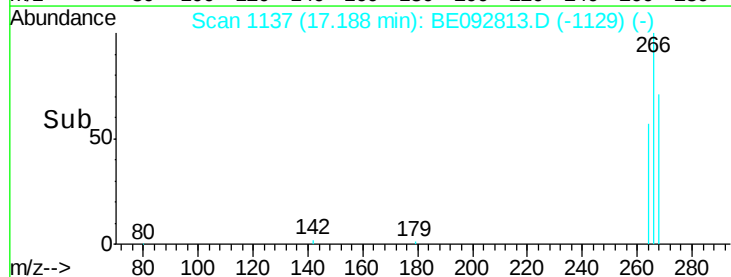
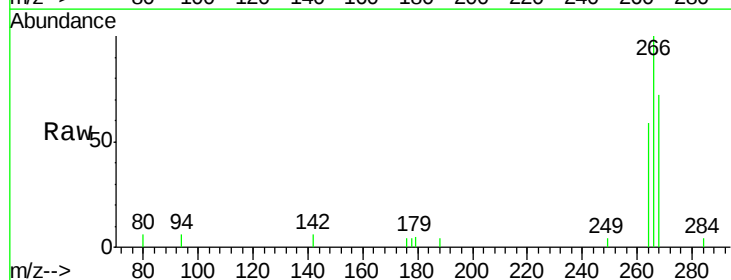
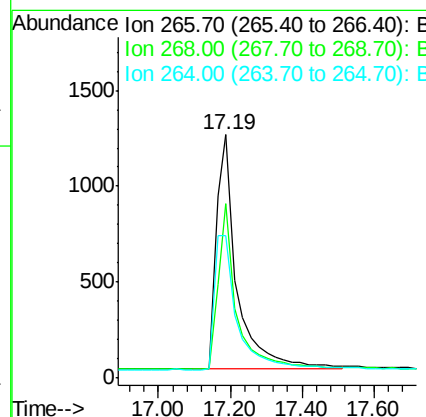
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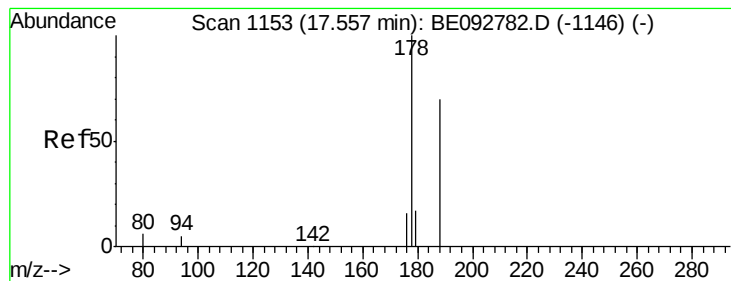
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#20
Pentachlorophenol
Concen: 6.13 ng
RT: 17.19 min Scan# 1137
Delta R.T. -0.11 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Lower	Upper
266	100		
268	71.7	62.5	93.7
264	58.7	57.2	85.8





#21

Phenanthrene

Concen: 3.99 ng

RT: 17.53 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

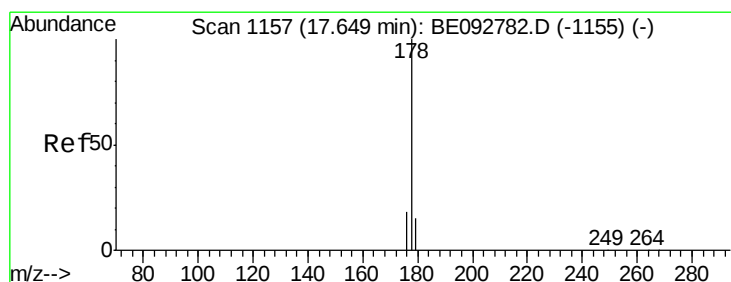
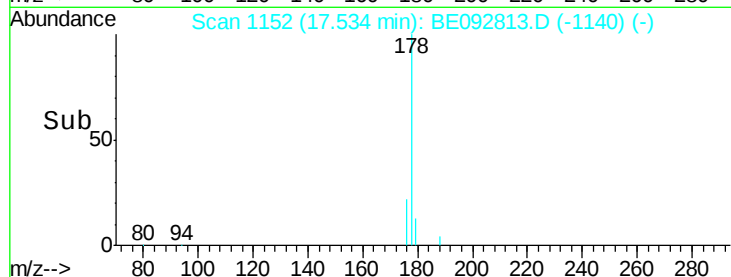
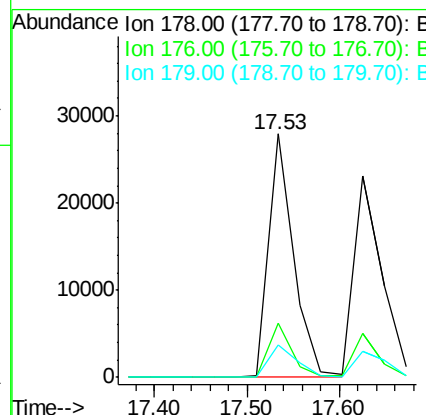
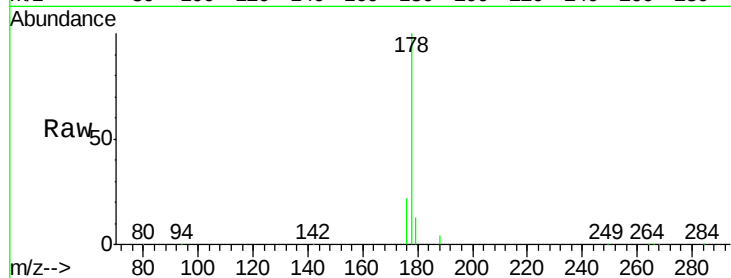
ClientSampleId :

PB97503BS

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.8	23.8
179	14.8	16.0	24.0

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#22

Anthracene

Concen: 3.80 ng

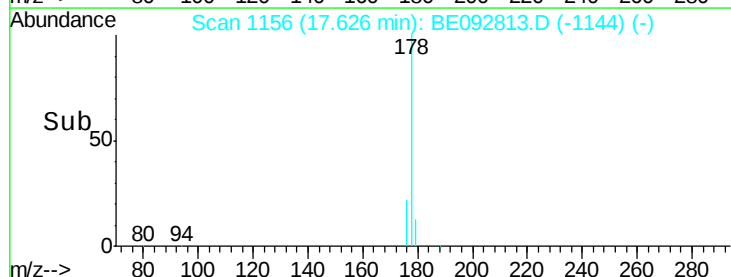
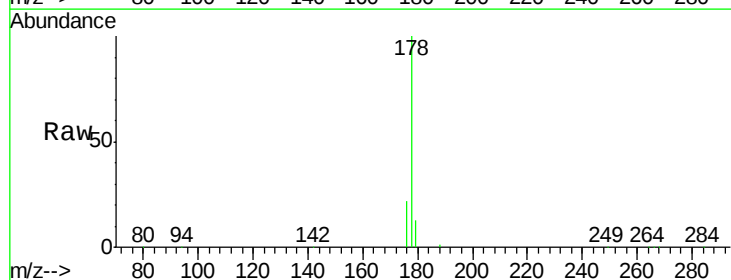
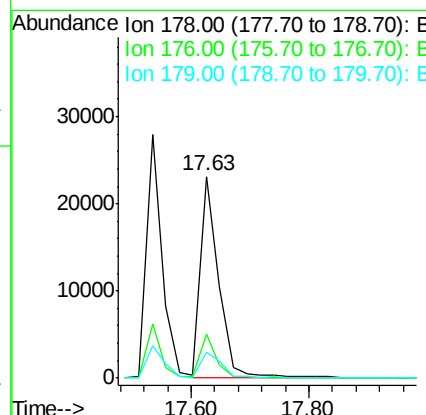
RT: 17.63 min Scan# 1156

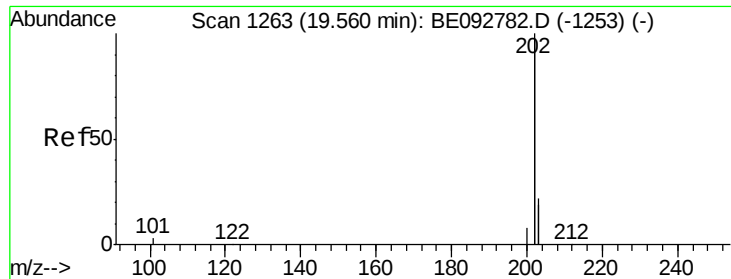
Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.0	22.4
179	15.0	12.2	18.2





#23

Fluoranthene

Concen: 3.43 ng

RT: 19.54 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

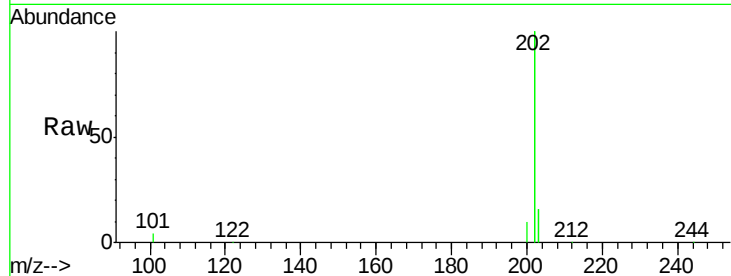
ClientSampleId :

PB97503BS

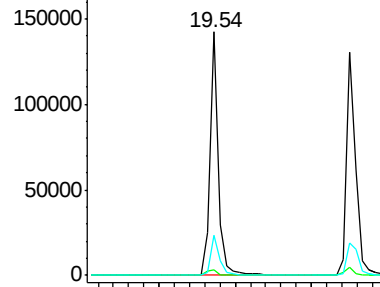
Tgt Ion:	202	Resp:	214654
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.4
203	17.3	13.7	20.5

Manual Integrations
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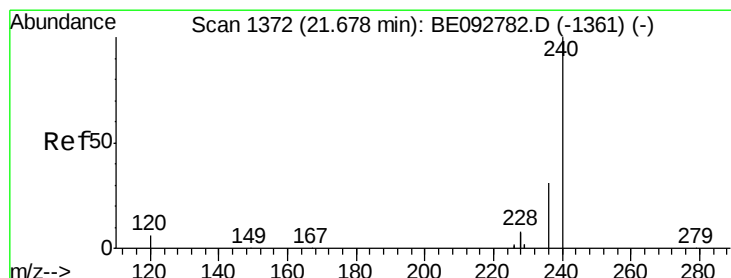
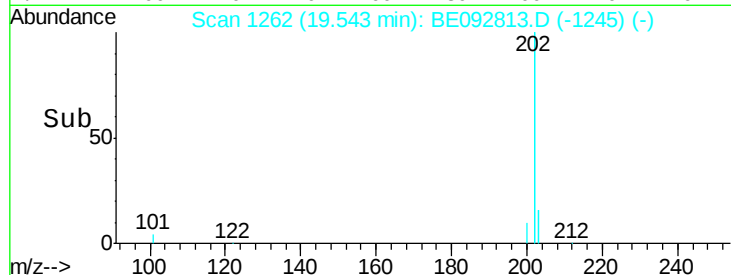
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#24

Chrysene-d12

Concen: 5.00 ng

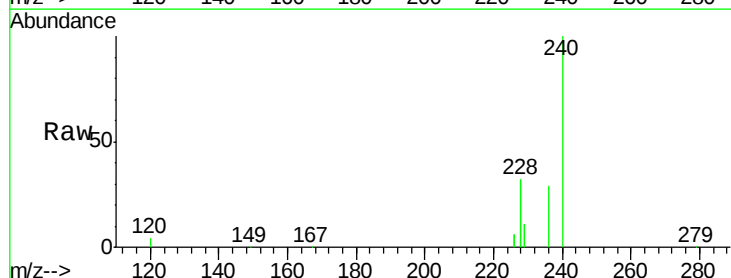
RT: 21.68 min Scan# 1372

Delta R.T. -0.02 min

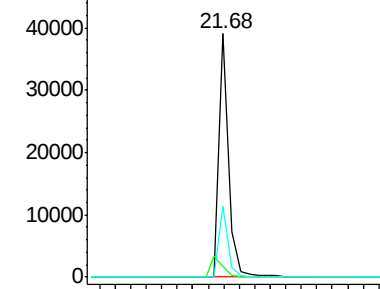
Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

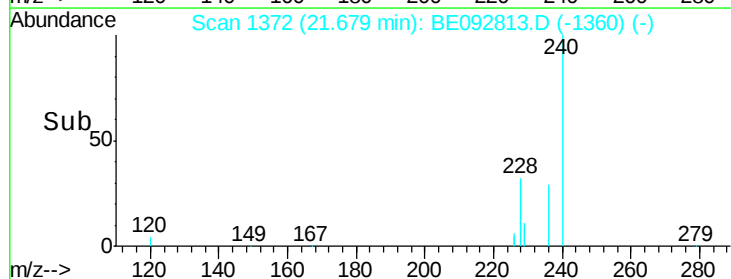
Tgt Ion:	240	Resp:	65827
Ion Ratio	Lower	Upper	
240	100		
120	4.3	2.6	4.0#
236	29.2	24.6	37.0

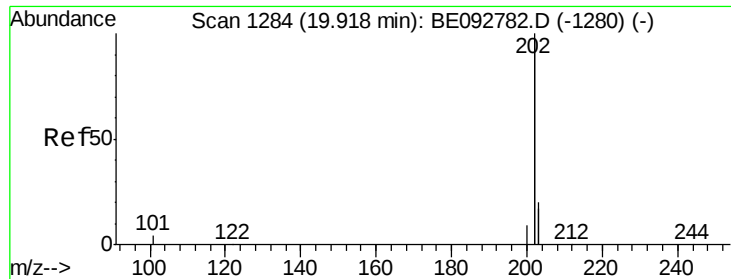


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





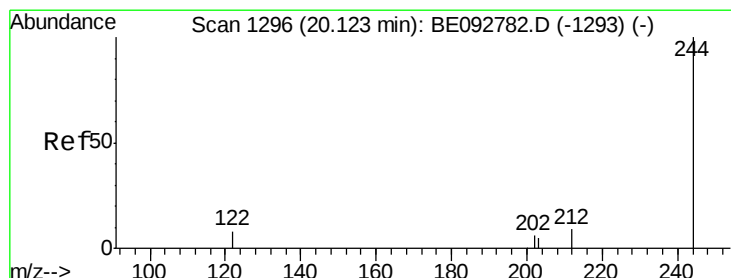
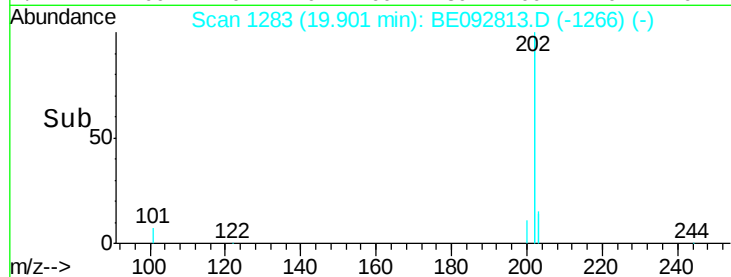
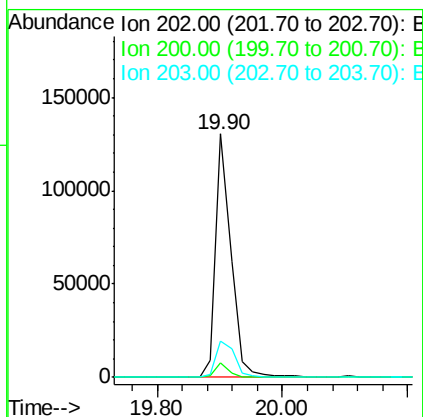
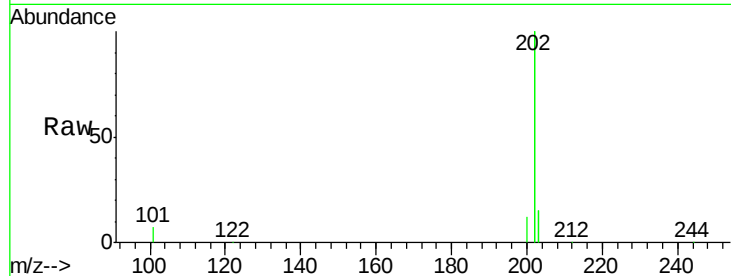
#25
 Pyrene
 Concen: 3.69 ng
 RT: 19.90 min Scan# 1283
 Delta R.T. -0.02 min
 Lab File: BE092813.D
 Acq: 10 Mar 2017 18:37

Instrument :
 BNA_E
 ClientSampleId :
 PB97503BS

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

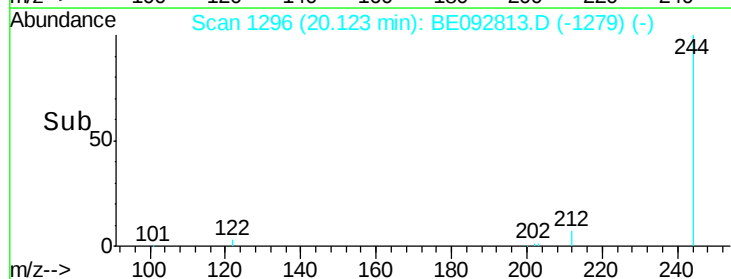
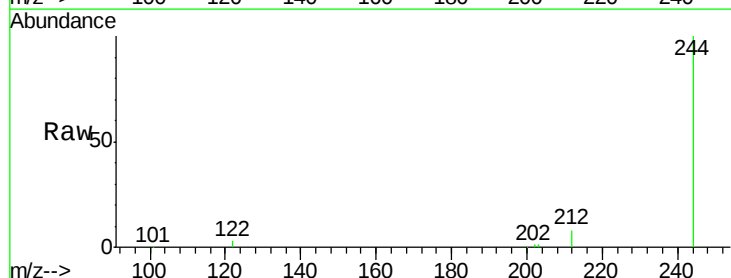
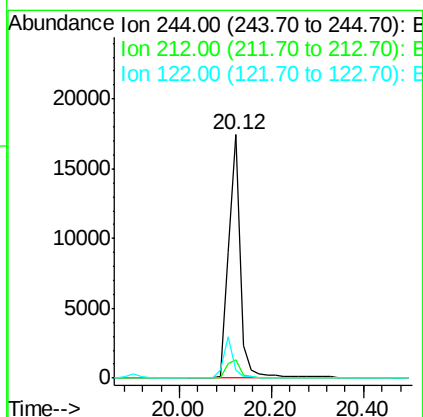
Manual Integrations
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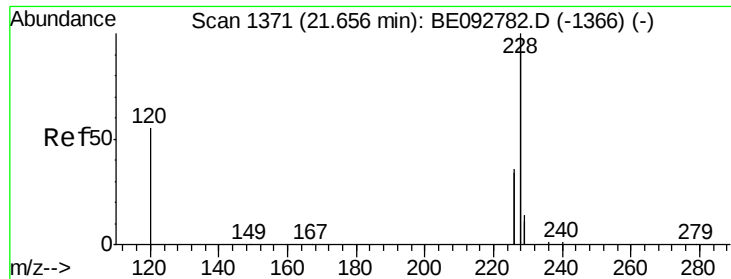
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#26
 Terphenyl-d14
 Concen: 3.90 ng
 RT: 20.12 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: BE092813.D
 Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.5	6.7	10.1
122	3.2	3.6	5.4#





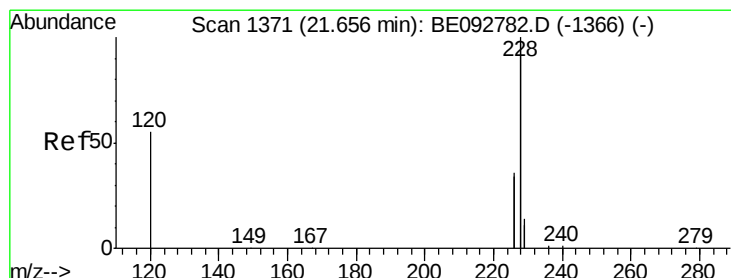
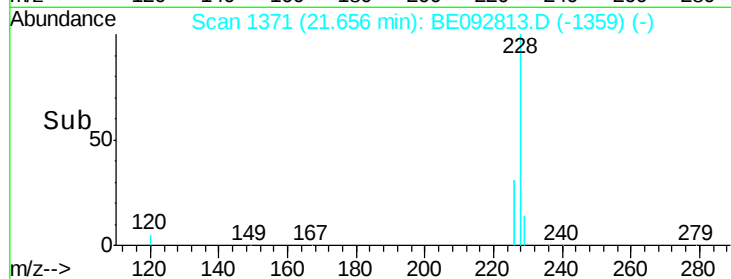
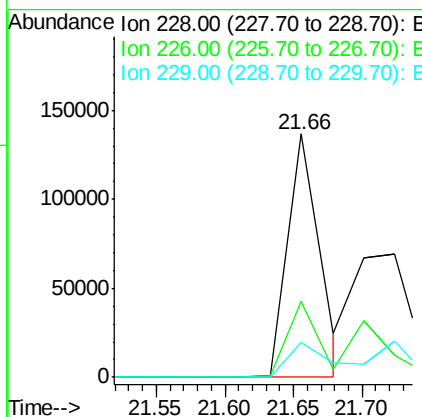
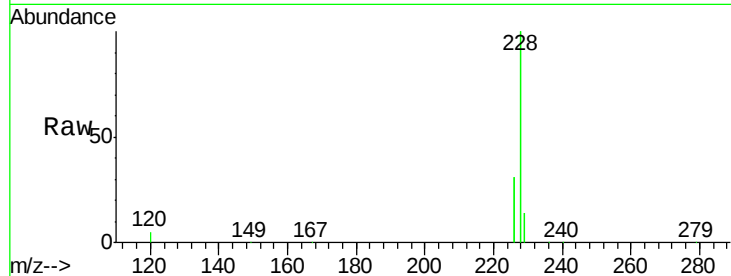
#27
Benzo(a)anthracene
Concen: 3.25 ng m
RT: 21.66 min Scan# 1371
Delta R.T. -0.02 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Instrument :
BNA_E
ClientSampleId :
PB97503BS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.6	35.4
229	14.3	13.3	19.9

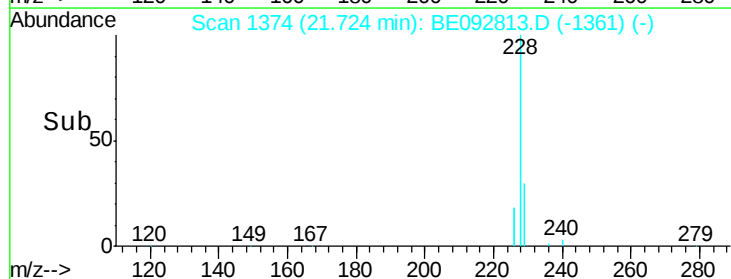
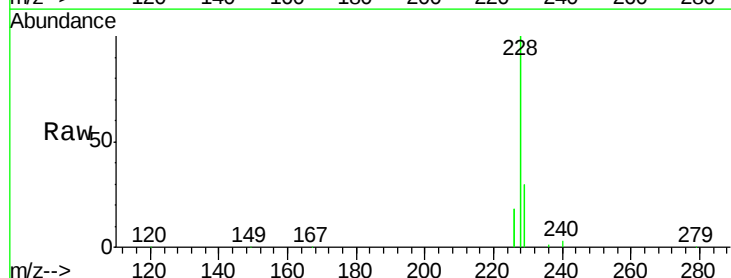
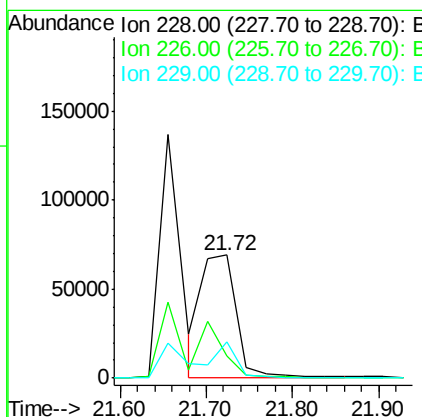
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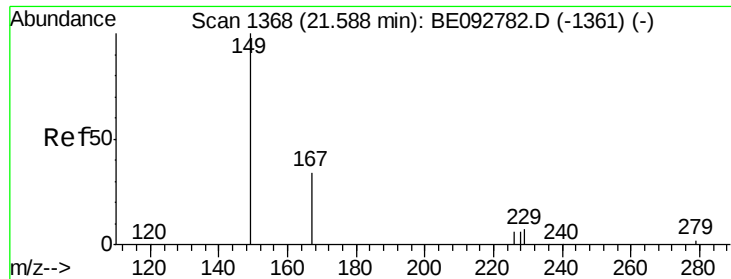
mohammad
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#28
Chrysene
Concen: 3.36 ng m
RT: 21.72 min Scan# 1374
Delta R.T. 0.00 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	18.5	36.3	54.5#
229	29.9	10.6	16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 2.70 ng

RT: 21.59 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Instrument :

BNA_E

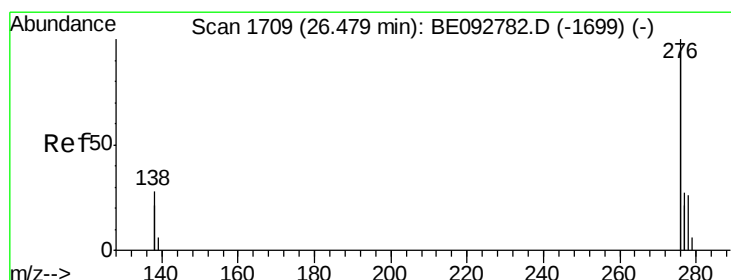
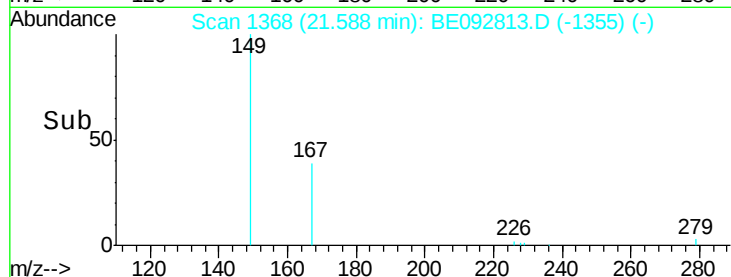
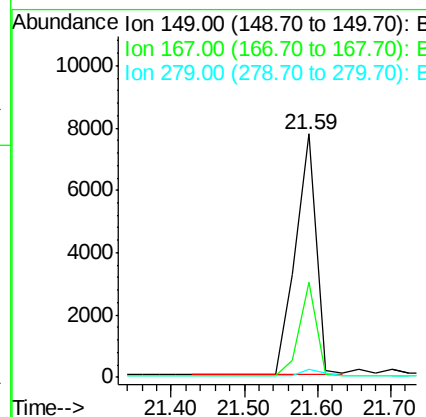
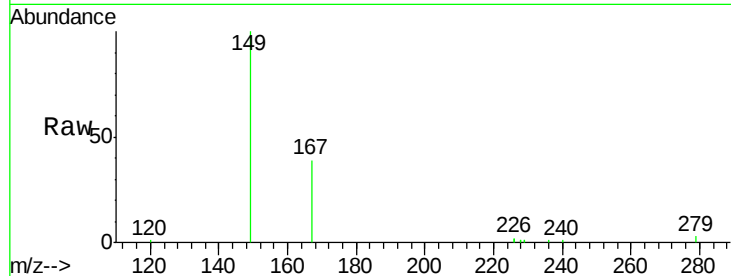
ClientSampleId :

PB97503BS

Tgt Ion:	149	Resp:	15175
Ion Ratio	Lower	Upper	
149	100		
167	32.2	16.0	24.0#
279	2.9	16.0	24.0#

Manual Integrations
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#30

Indeno(1,2,3-cd)pyrene

Concen: 4.30 ng

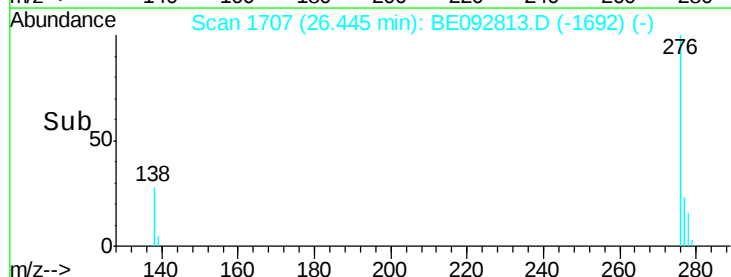
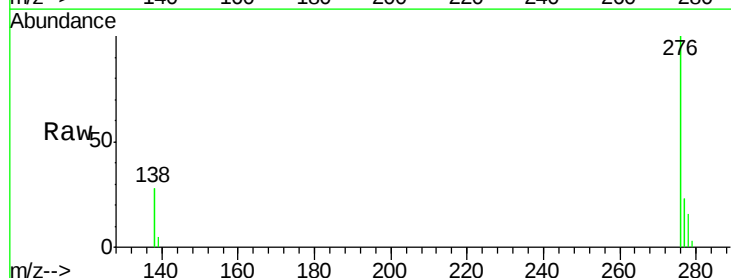
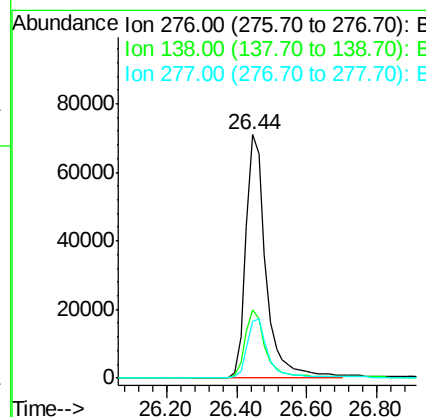
RT: 26.44 min Scan# 1707

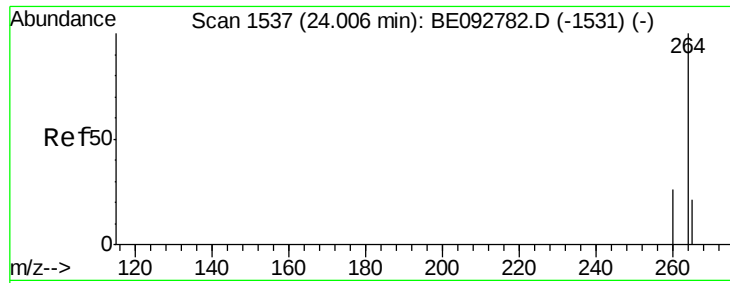
Delta R.T. -0.05 min

Lab File: BE092813.D

Acq: 10 Mar 2017 18:37

Tgt Ion:	276	Resp:	281124
Ion Ratio	Lower	Upper	
276	100		
138	28.4	20.3	30.5
277	24.8	19.7	29.5





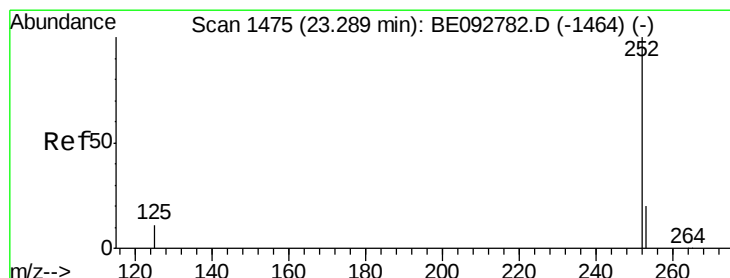
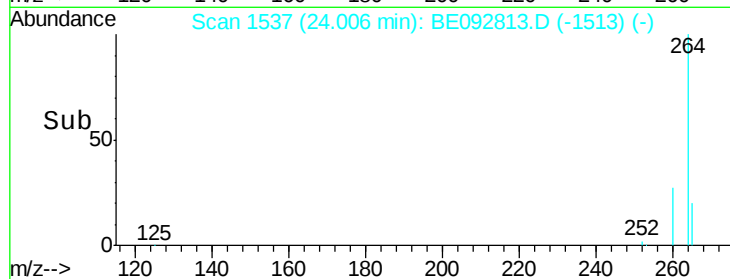
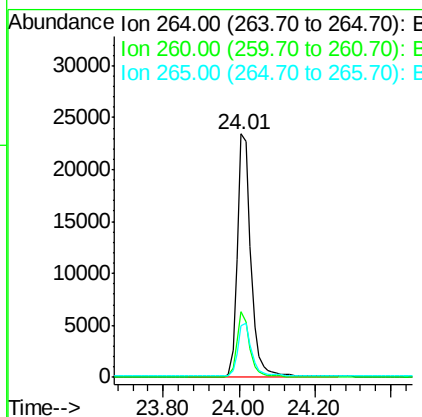
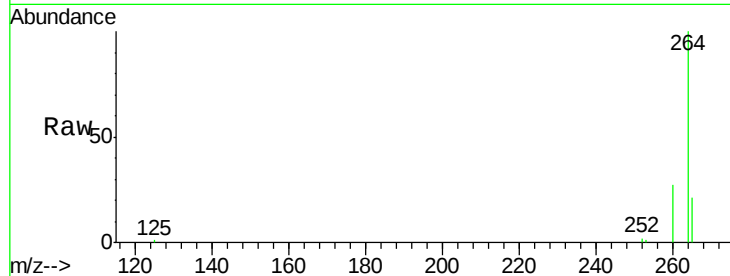
#31
Perylene-d12
 Concen: 5.00 ng
 RT: 24.01 min Scan# 1537
 Delta R.T. -0.02 min
 Lab File: BE092813.D
 Acq: 10 Mar 2017 18:37

Instrument :
 BNA_E
 ClientSampleId :
 PB97503BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	26.8	20.1	30.1
265	21.2	17.9	26.9

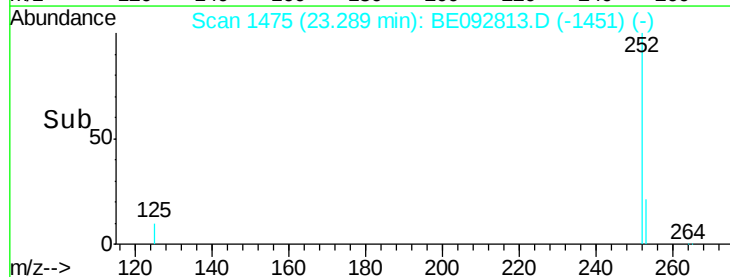
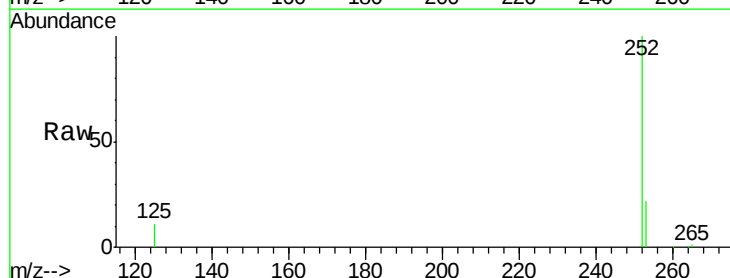
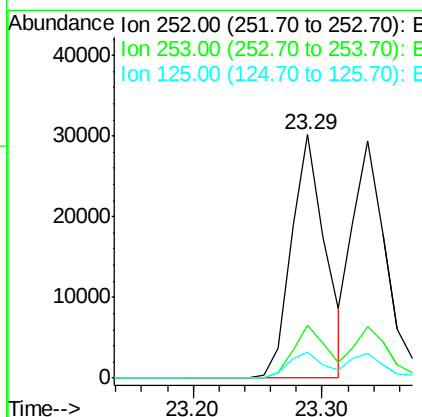
Manual Integrations
 APPROVED

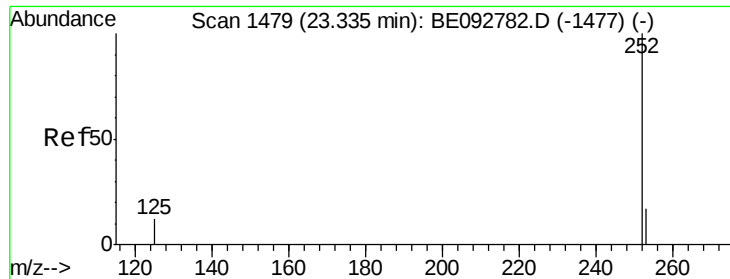
mohammad
 3/13/2017 4:30:47 PM



#32
Benzo(b)fluoranthene
 Concen: 3.53 ng
 RT: 23.29 min Scan# 1475
 Delta R.T. -0.02 min
 Lab File: BE092813.D
 Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	21.6	18.7	28.1
125	10.6	10.5	15.7





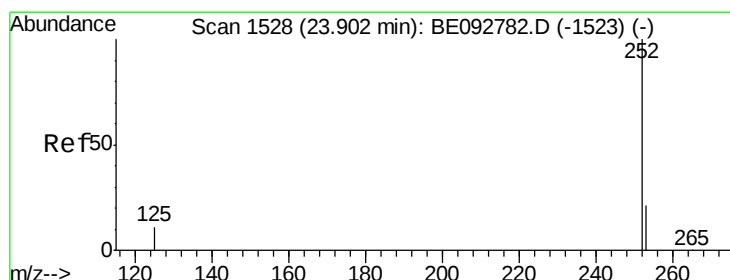
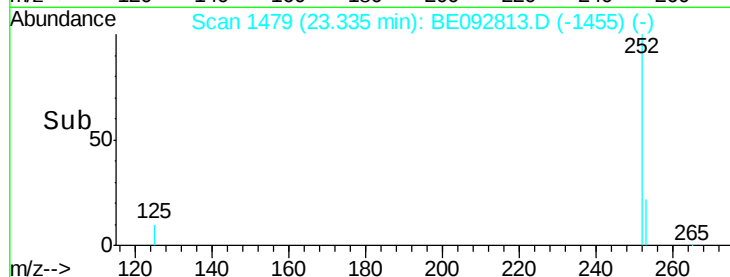
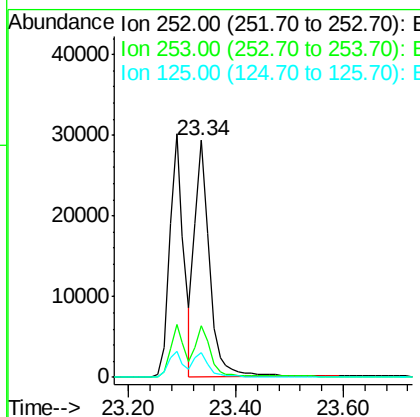
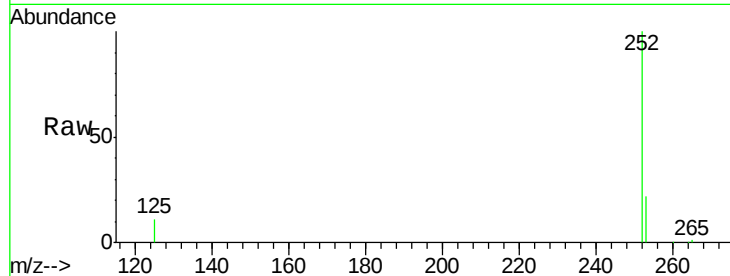
#33
Benzo(k)fluoranthene
Concen: 3.52 ng
RT: 23.34 min Scan# 1479
Delta R.T. -0.02 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Instrument :
BNA_E
ClientSampleId :
PB97503BS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	20.3	30.5
125	10.5	9.6	14.4

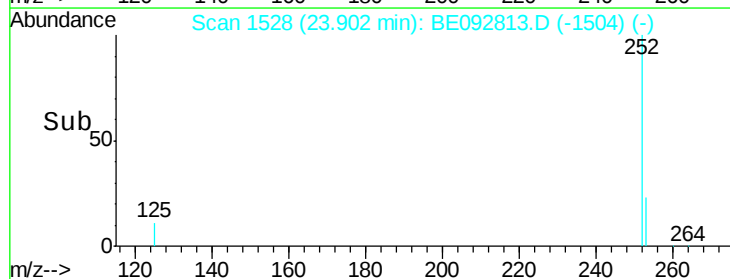
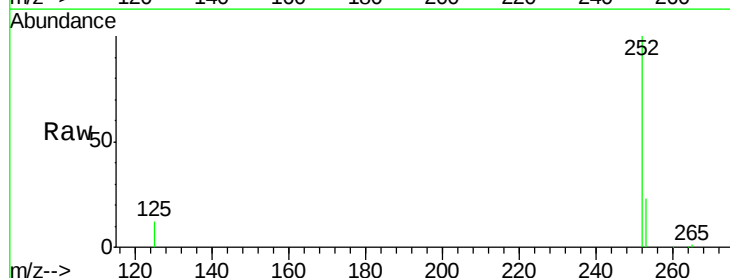
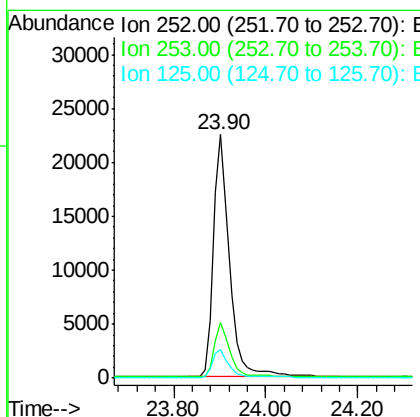
Manual Integrations
APPROVED

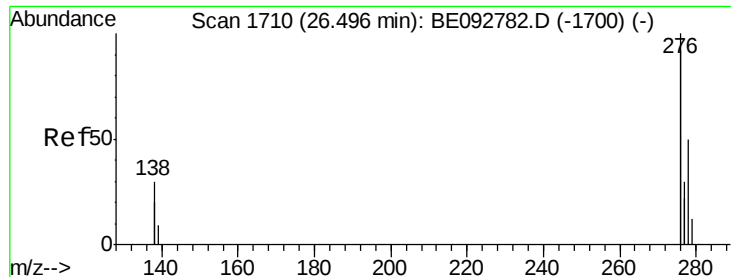
mohammad
3/13/2017 4:30:47 PM



#34
Benzo(a)pyrene
Concen: 3.85 ng
RT: 23.90 min Scan# 1528
Delta R.T. -0.02 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.0	28.6
125	11.5	11.8	17.8





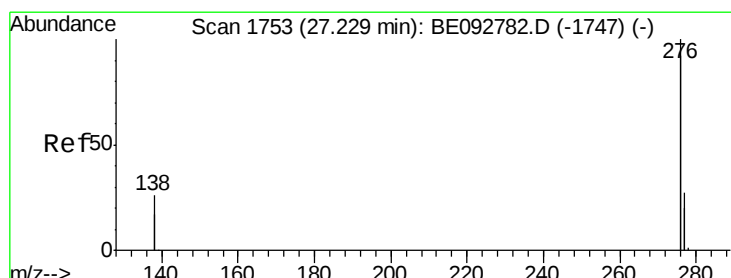
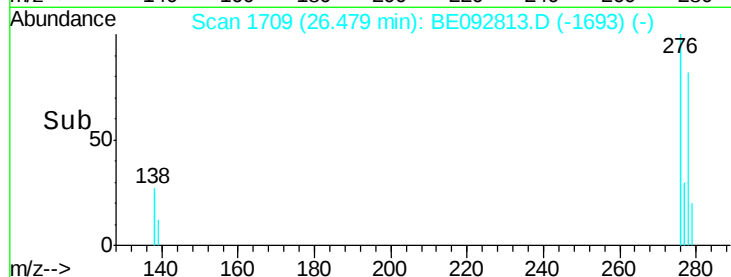
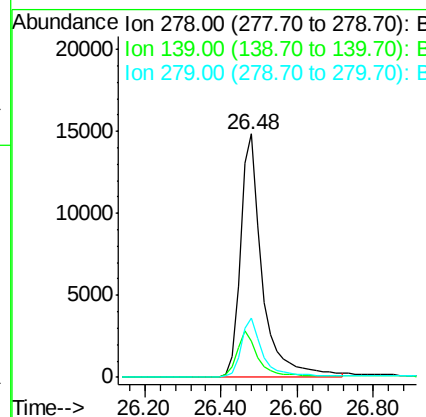
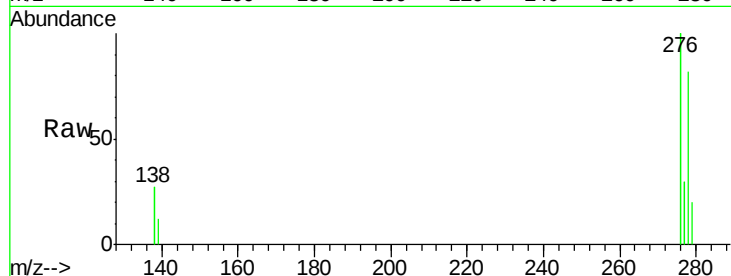
#35
Dibenzo(a,h)anthracene
Concen: 4.34 ng
RT: 26.48 min Scan# 1709
Delta R.T. -0.03 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Instrument :
BNA_E
ClientSampleId :
PB97503BS

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.8	13.8	20.8
279	24.5	21.4	32.2

Manual Integrations
APPROVED

mohammad
3/13/2017 4:30:47 PM



#36
Benzo(g,h,i)perylene
Concen: 4.29 ng
RT: 27.21 min Scan# 1752
Delta R.T. -0.03 min
Lab File: BE092813.D
Acq: 10 Mar 2017 18:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.8	29.8
138	23.3	19.8	29.6

