

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021517\
 Data File : BE092733.D
 Acq On : 15 Feb 2017 14:59
 Operator : SJ/MA
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC3.2

Manual Integrations
 APPROVED

mohammad
 2/16/2017 11:44:36 AM

Quant Time: Feb 15 15:47:25 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE021517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 15 13:34:48 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	9768	5.00	ng	-0.02
7) Naphthalene-d8	10.89	136	46726	5.00	ng	0.00
12) Acenaphthene-d10	14.76	164	29648	5.00	ng	0.00
18) Phenanthrene-d10	17.51	188	60945	5.00	ng	0.00
24) Chrysene-d12	21.70	240	73186	5.00	ng	0.00
31) Perylene-d12	24.03	264	69201	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.61	112	6594	3.02	ng	-0.02
5) Phenol-d6	7.27	99	8988	3.36	ng	-0.04
8) Nitrobenzene-d5	9.27	82	10087	3.33	ng	-0.04
13) 2,4,6-Tribromophenol	16.26	330	2484	3.33	ng	-0.02
14) 2-Fluorobiphenyl	13.38	172	22859	3.14	ng	-0.02
26) Terphenyl-d14	20.12	244	29730	2.87	ng	-0.02

Target Compounds						Qvalue
2) 1,4-Dioxane	3.34	88	3796	2.51	ng	93
3) n-Nitrosodimethylamine	3.70	42	5127	2.91	ng	97
6) bis(2-Chloroethyl)ether	7.52	93	9906	3.49	ng	89
9) Naphthalene	10.93	128	31313	3.21	ng	94
10) Hexachlorobutadiene	11.22	225	4615	3.20	ng	99
11) 2-Methylnaphthalene	12.57	142	20782	3.43	ng	# 87
15) Acenaphthylene	14.48	152	145492	3.56	ng	100
16) Acenaphthene	14.82	154	20946	3.20	ng	89
17) Fluorene	15.81	166	26986	3.28	ng	99
19) Hexachlorobenzene	16.84	284	6971	3.03	ng	# 39
20) Pentachlorophenol	17.23	266	1970	3.14	ng	93
21) Phenanthrene	17.56	178	47616	3.54	ng	# 94
22) Anthracene	17.65	178	45864	3.70	ng	99
23) Fluoranthene	19.56	202	198363	3.32	ng	99
25) Pyrene	19.92	202	221929	3.08	ng	100
27) Benzo(a)anthracene	21.68	228	218549	3.03	ng	# 80
28) Chrysene	21.72	228	256501m	3.16	ng	
29) Bis(2-ethylhexyl)phthalate	21.59	149	31703	2.37	ng	# 75
30) Indeno(1,2,3-cd)pyrene	26.48	276	256514	2.93	ng	97
32) Benzo(b)fluoranthene	23.30	252	55117	3.29	ng	96
33) Benzo(k)fluoranthene	23.36	252	60644	3.61	ng	95
34) Benzo(a)pyrene	23.91	252	55478	3.53	ng	94
35) Dibenzo(a,h)anthracene	26.50	278	54637	3.55	ng	95
36) Benzo(g,h,i)perylene	27.23	276	222970	3.43	ng	97

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

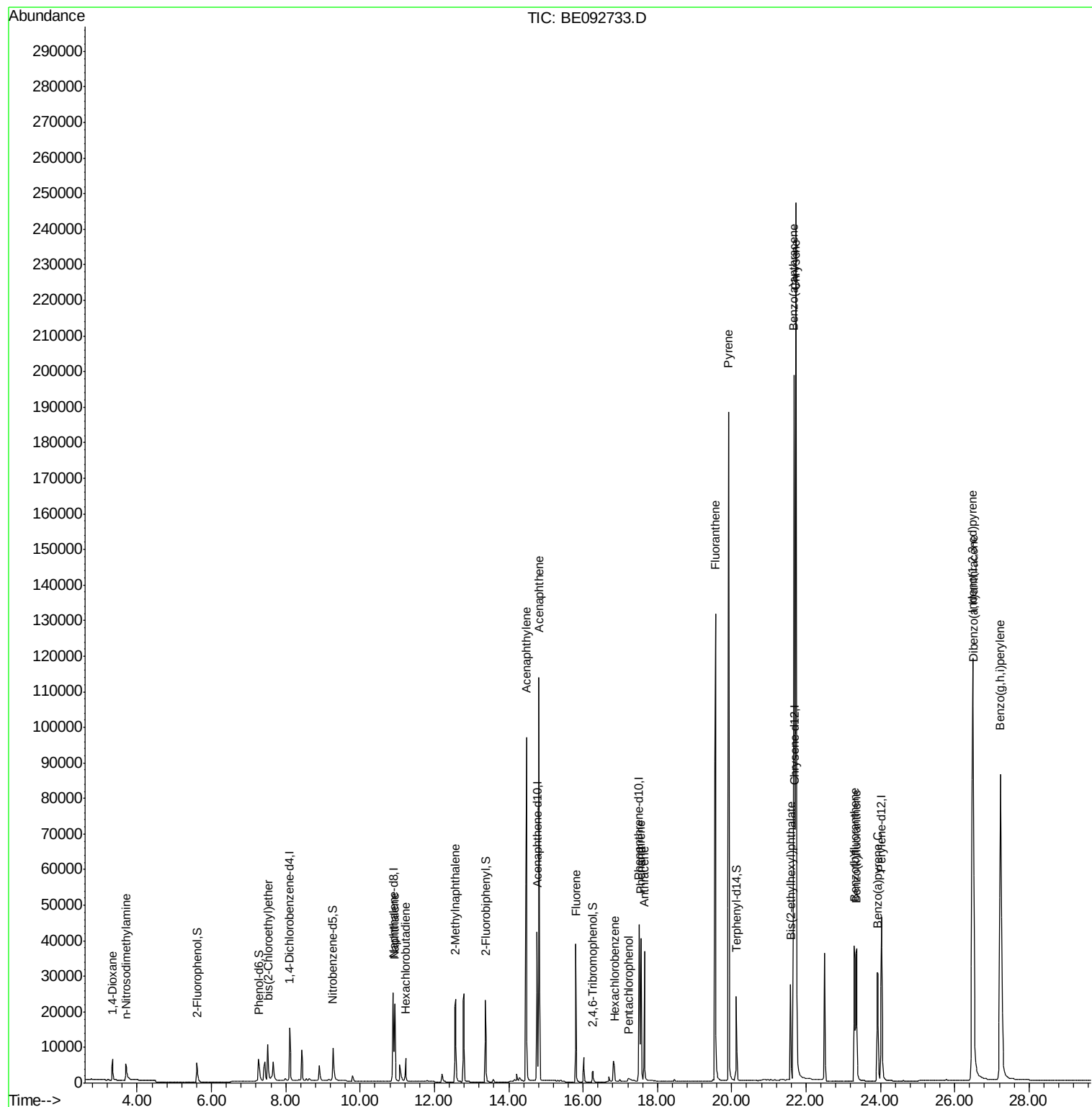
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021517\
Data File : BE092733.D
Acq On : 15 Feb 2017 14:59
Operator : SJ/MA
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

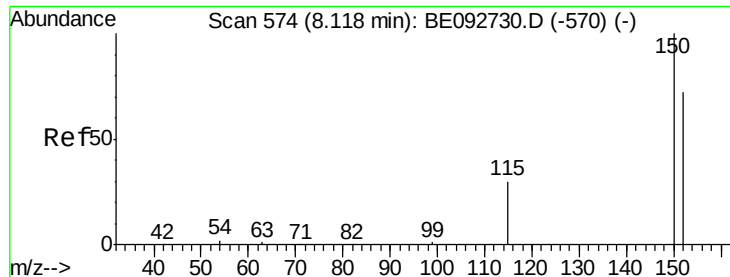
Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

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2/16/2017 11:44:36 AM

Quant Time: Feb 15 15:47:25 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE021517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 15 13:34:48 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: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

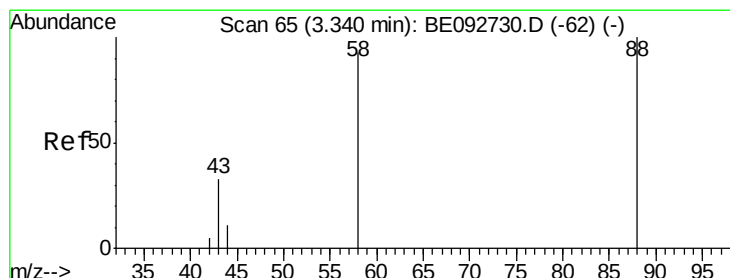
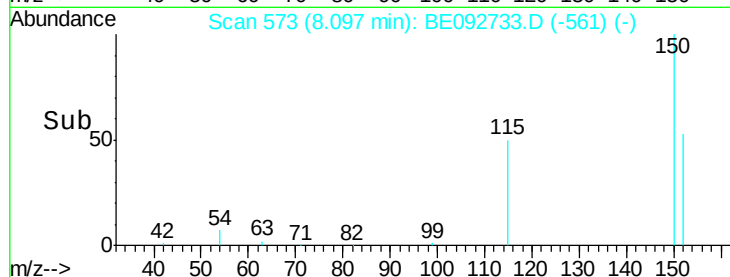
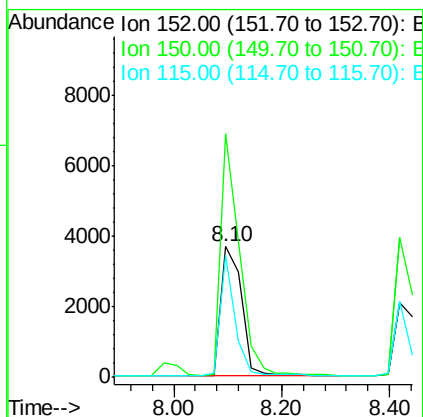
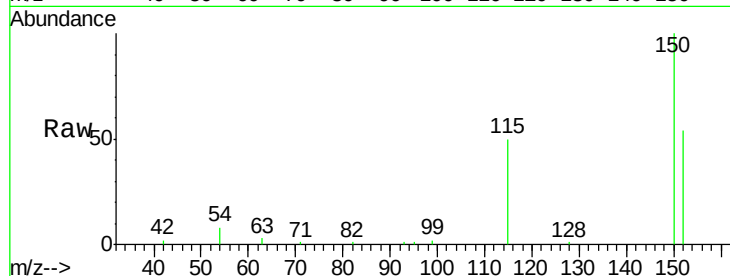
ClientSampleId :

SSTDICC3.2

Tgt Ion:	152	Resp:	9768
Ion Ratio	Lower	Upper	
152	100		
150	186.1	106.0	159.0#
115	93.3	31.2	46.8#

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#2

1,4-Dioxane

Concen: 2.51 ng

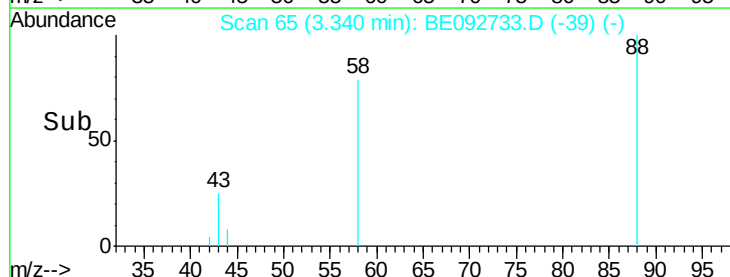
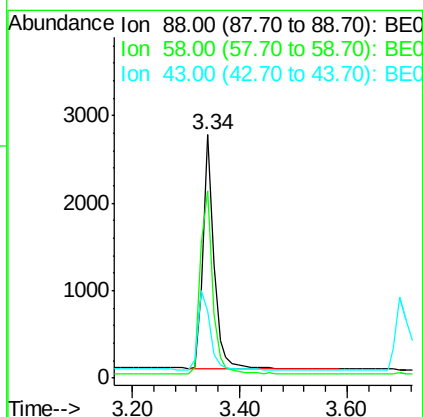
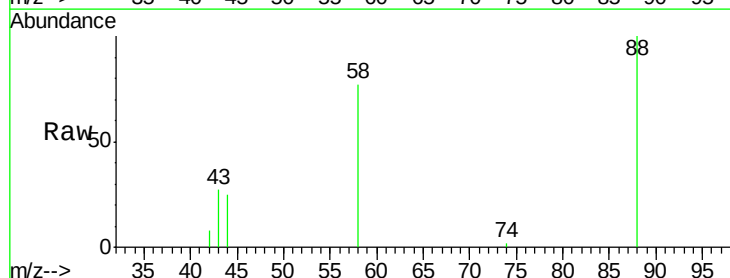
RT: 3.34 min Scan# 65

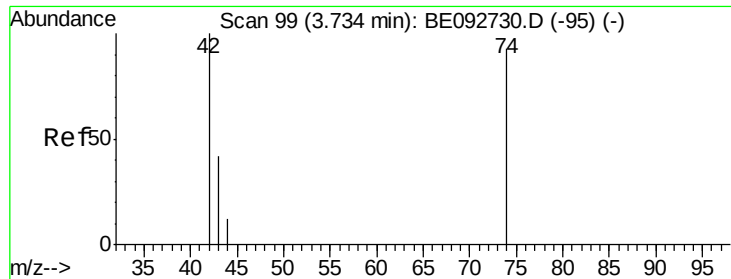
Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	88	Resp:	3796
Ion Ratio	Lower	Upper	
88	100		
58	86.7	63.6	95.4
43	37.2	28.0	42.0





#3

n-Nitrosodimethylamine

Concen: 2.91 ng

RT: 3.70 min Scan# 96

Delta R.T. -0.04 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

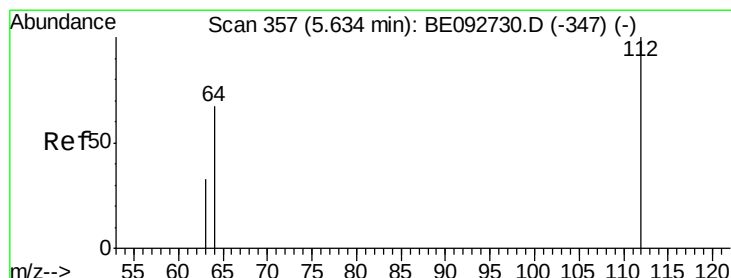
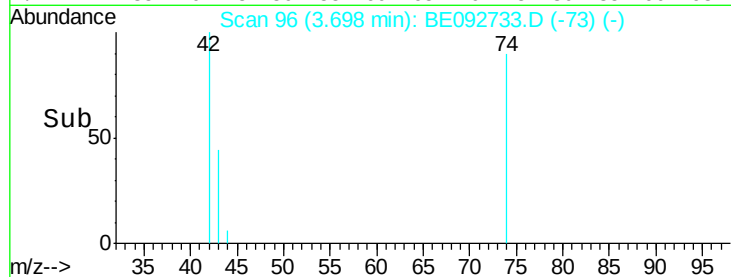
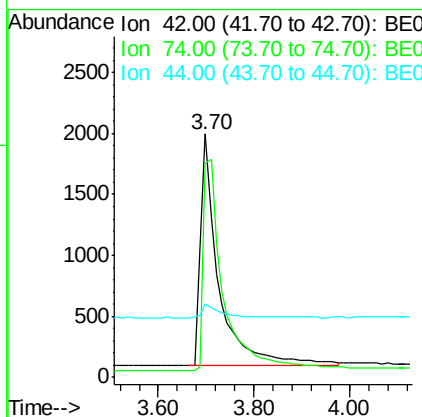
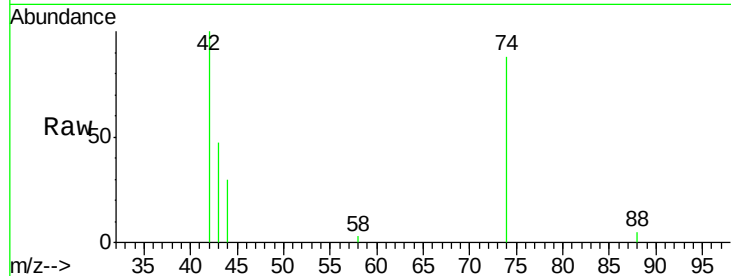
ClientSampleId :

SSTDICC3.2

Tgt Ion:	42	Resp:	5127
Ion Ratio	Lower	Upper	
42	100		
74	103.9	86.0	129.0
44	6.2	5.1	7.7

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#4

2-Fluorophenol

Concen: 3.02 ng

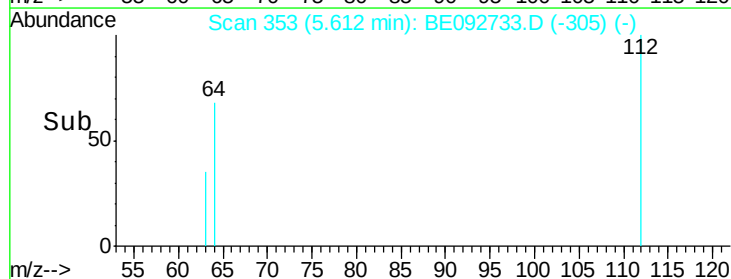
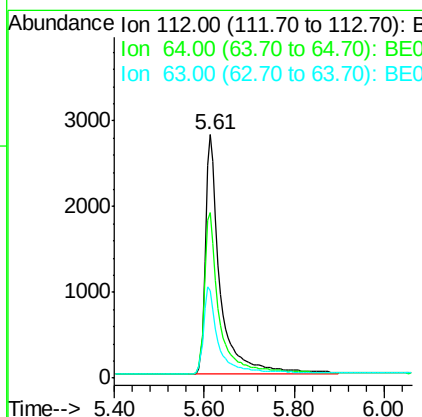
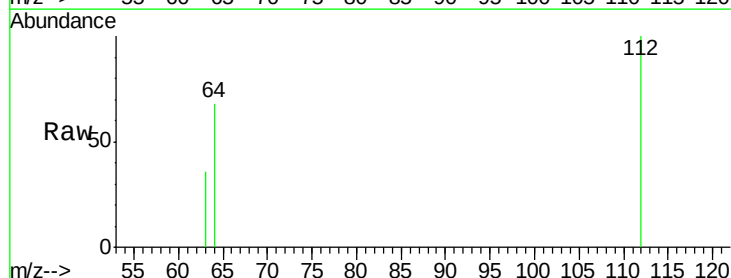
RT: 5.61 min Scan# 353

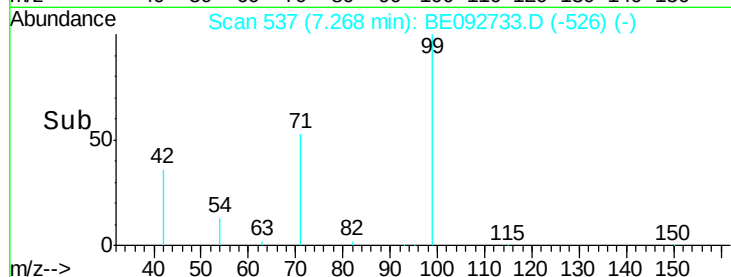
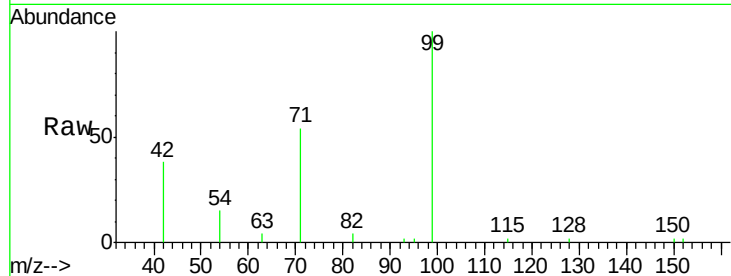
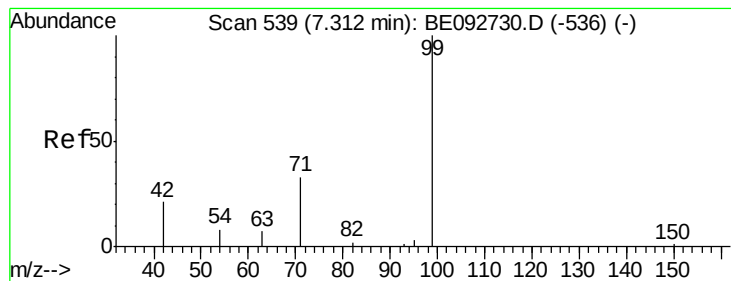
Delta R.T. -0.02 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	112	Resp:	6594
Ion Ratio	Lower	Upper	
112	100		
64	67.9	53.5	80.3
63	35.8	27.9	41.9





#5

Phenol-d6

Concen: 3.36 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.04 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	99	Resp:	8988
Ion Ratio	Lower	Upper	
99	100		
42	25.4	16.0	24.0#
71	36.7	30.6	45.8

Instrument :

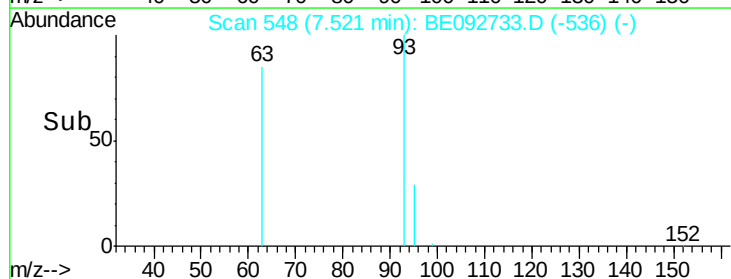
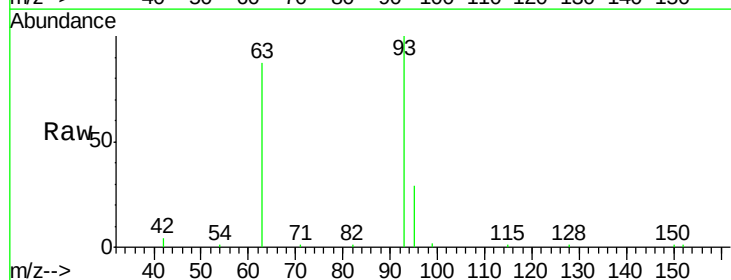
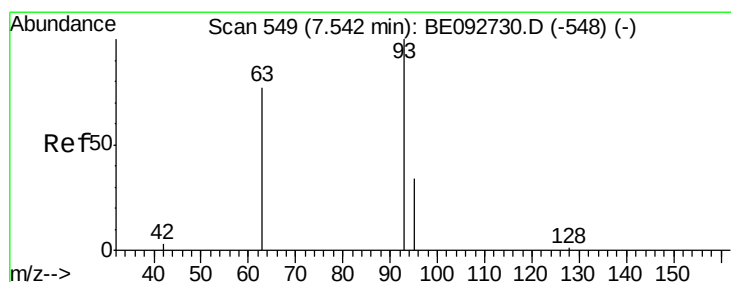
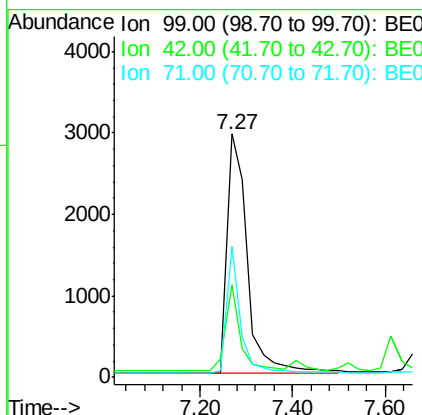
BNA_E

ClientSampleId :

SSTDICC3.2

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#6

bis(2-Chloroethyl)ether

Concen: 3.49 ng

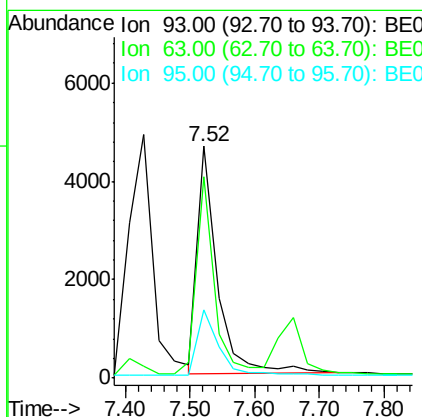
RT: 7.52 min Scan# 548

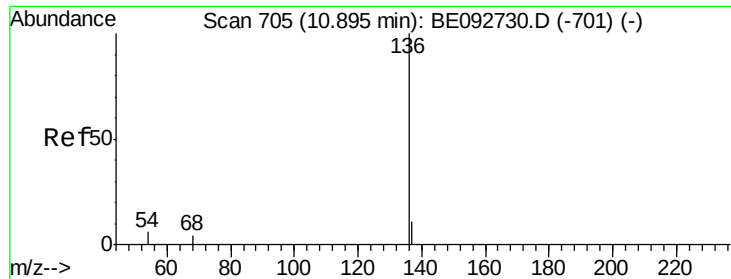
Delta R.T. -0.02 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	93	Resp:	9906
Ion Ratio	Lower	Upper	
93	100		
63	76.3	71.6	107.4
95	31.3	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.89 min Scan# 705

Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

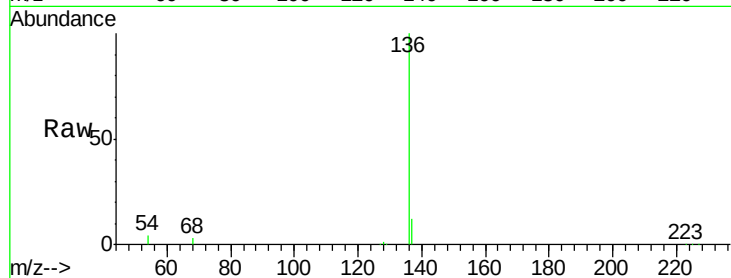
ClientSampled :

SSTDICC3.2

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	46726		
137	12.3	8.2	12.4	
54	4.2	9.6	14.4	
68	3.4	6.7	10.1	

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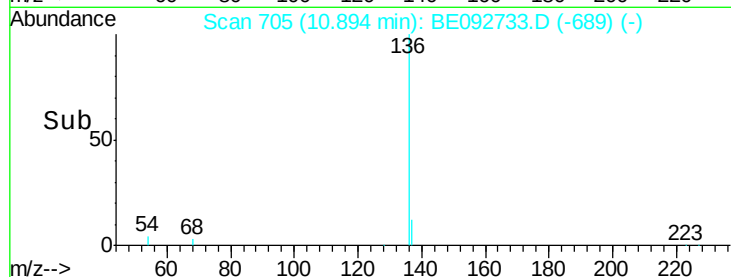
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

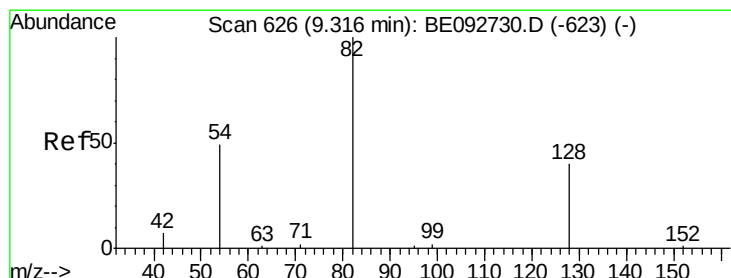
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 3.33 ng

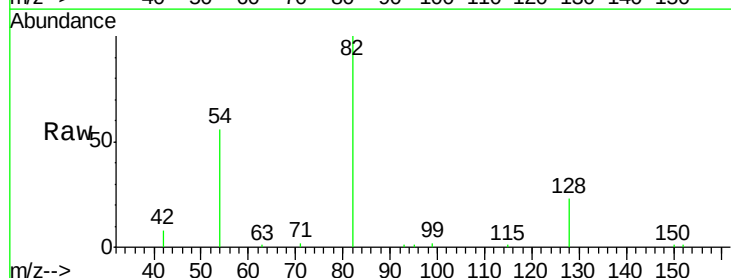
RT: 9.27 min Scan# 624

Delta R.T. -0.04 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	10087		
128	23.3	39.0	58.4	
54	55.9	44.8	67.2	

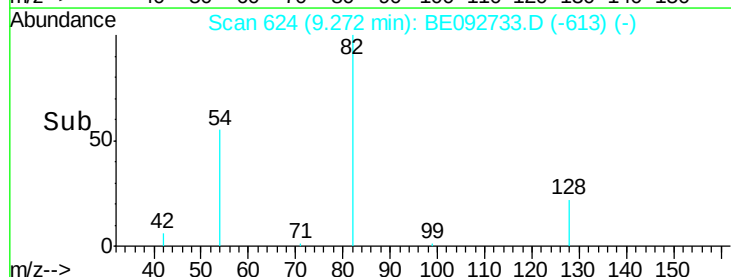


Abundance Ion 82.00 (81.70 to 82.70): BE0

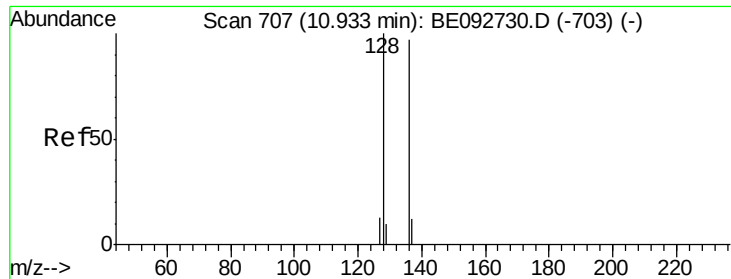
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

Time-->



Time-->



#9

Naphthalene

Concen: 3.21 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

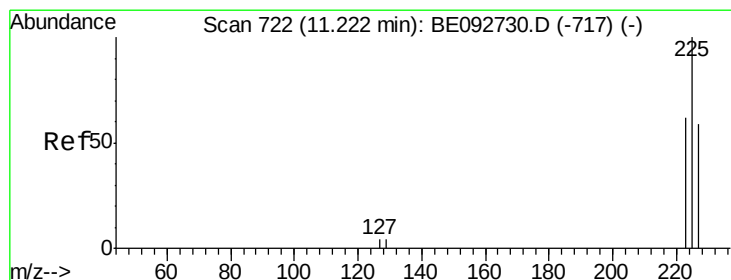
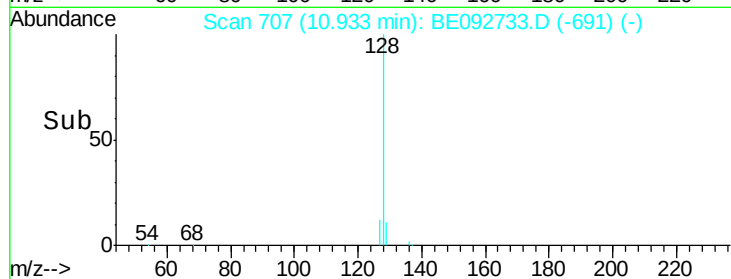
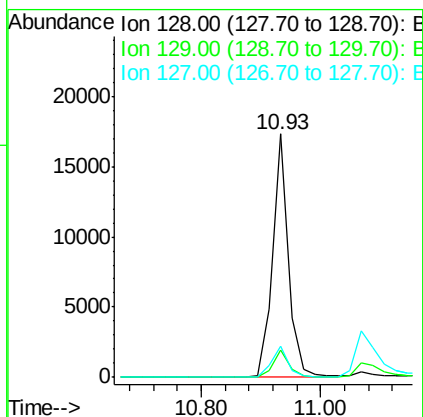
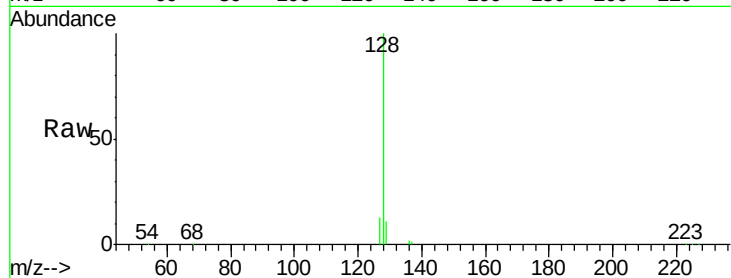
ClientSampleId :

SSTDICC3.2

Tgt Ion:	128	Resp:	31313
Ion Ratio	Lower	Upper	
128	100		
129	11.2	11.2	16.8
127	12.7	11.6	17.4

Manual Integrations
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#10

Hexachlorobutadiene

Concen: 3.20 ng

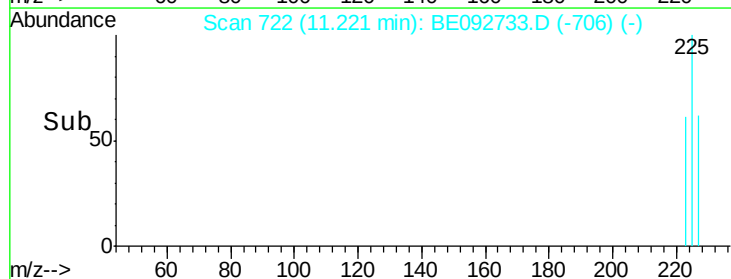
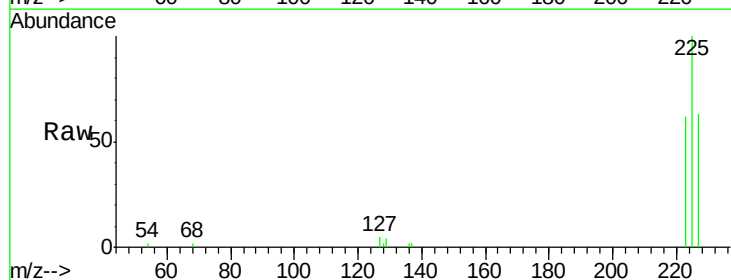
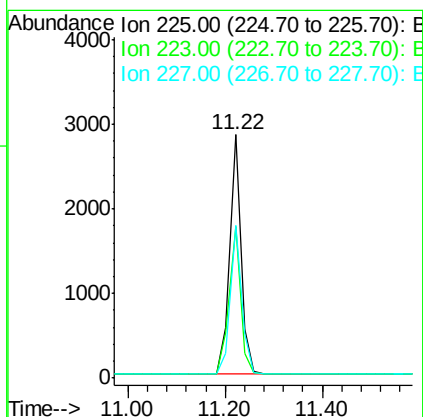
RT: 11.22 min Scan# 722

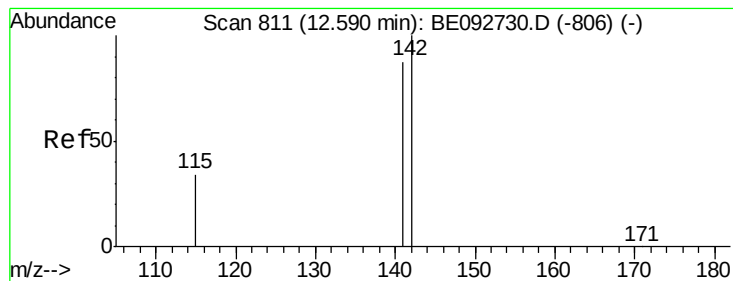
Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	225	Resp:	4615
Ion Ratio	Lower	Upper	
225	100		
223	62.5	50.6	76.0
227	63.3	51.4	77.0





#11

2-Methylnaphthalene

Concen: 3.43 ng

RT: 12.57 min Scan# 809

Delta R.T. -0.02 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

ClientSampleId :

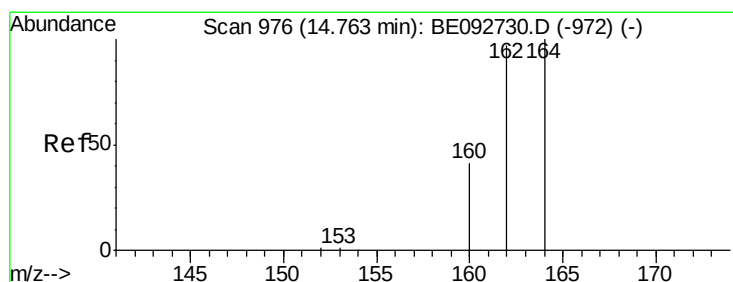
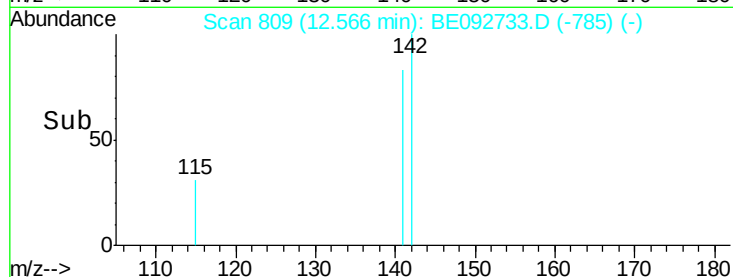
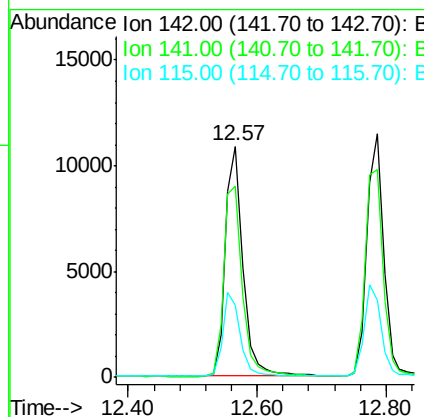
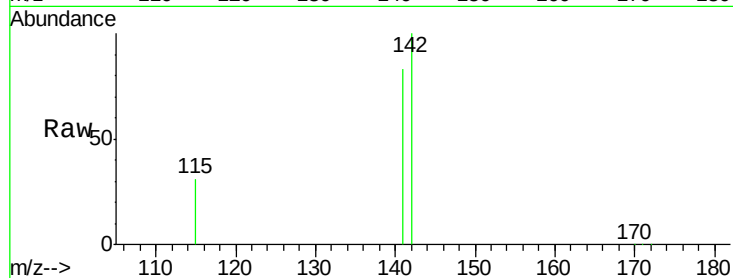
SSTDICC3.2

Tgt Ion:142 Resp: 20782

Ion	Ratio	Lower	Upper
142	100		
141	82.5	73.7	110.5
115	31.0	34.0	51.0#

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.76 min Scan# 977

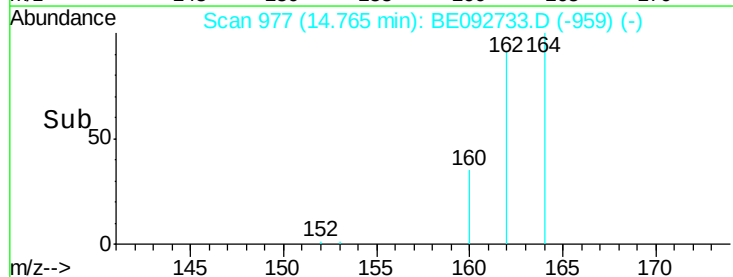
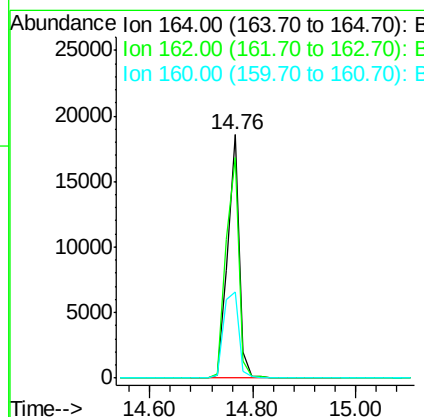
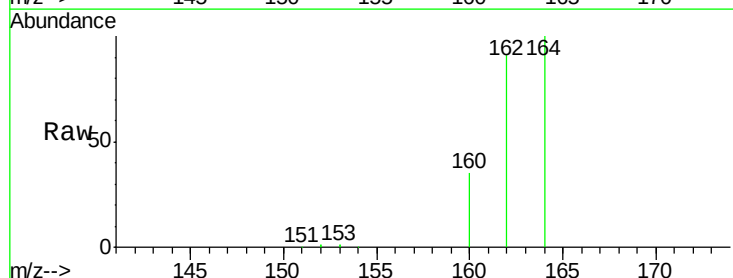
Delta R.T. 0.00 min

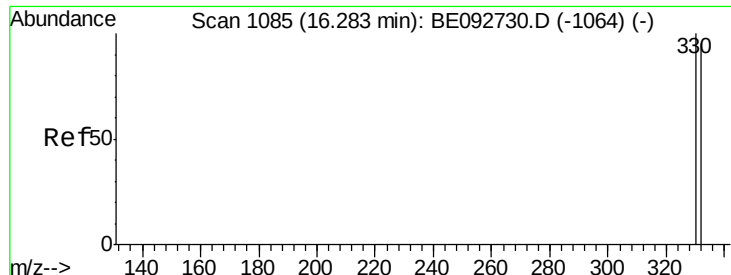
Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:164 Resp: 29648

Ion	Ratio	Lower	Upper
164	100		
162	90.5	71.4	107.0
160	35.3	27.4	41.2





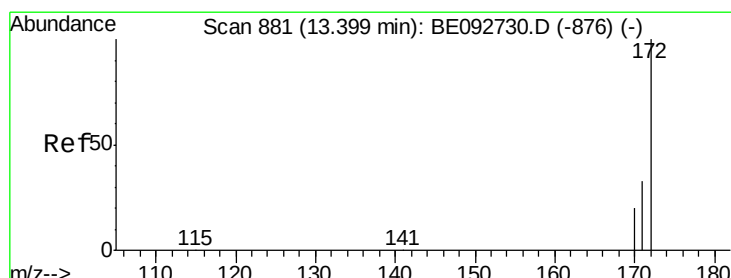
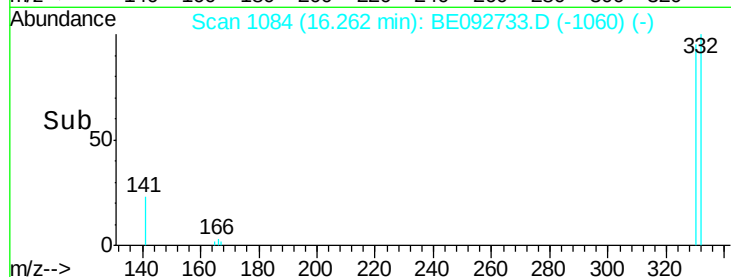
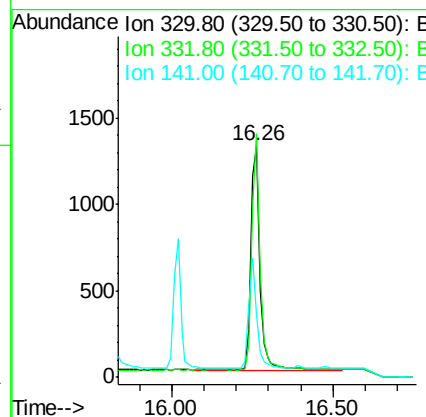
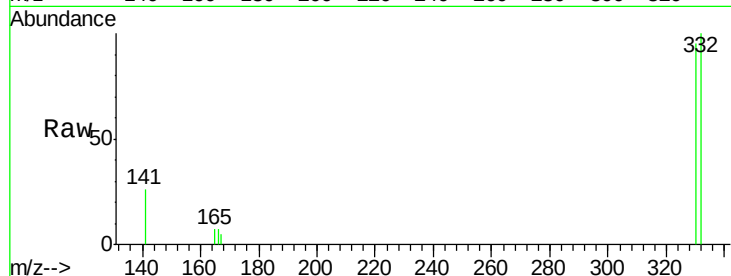
#13
 2,4,6-Tribromophenol
 Concen: 3.33 ng
 RT: 16.26 min Scan# 1084
 Delta R.T. -0.02 min
 Lab File: BE092733.D
 Acq: 15 Feb 2017 14:59

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.2	75.4	113.0
141	43.6	31.0	46.6

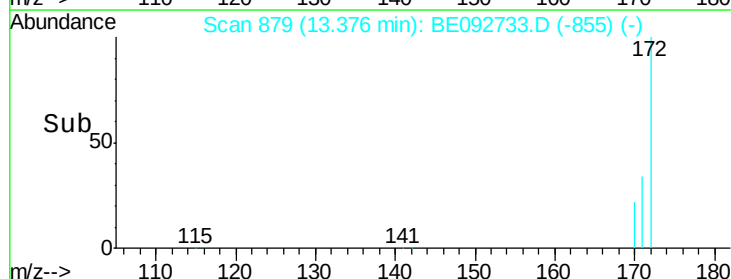
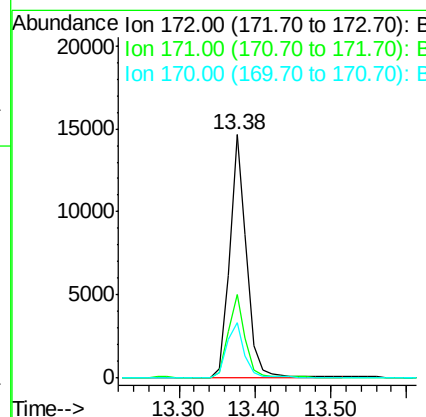
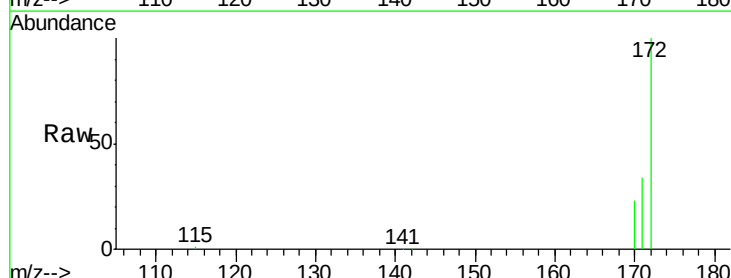
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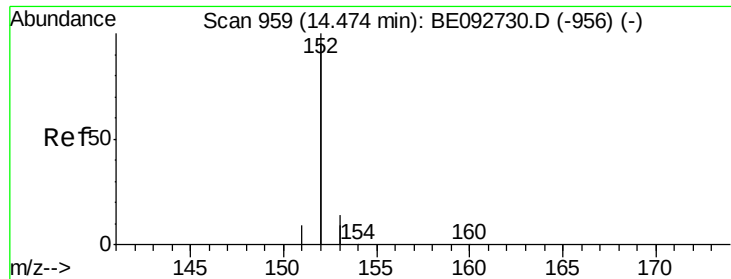
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#14
 2-Fluorobiphenyl
 Concen: 3.14 ng
 RT: 13.38 min Scan# 879
 Delta R.T. -0.02 min
 Lab File: BE092733.D
 Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	30.1	45.1
170	22.6	21.8	32.6





#15

Acenaphthylene

Concen: 3.56 ng

RT: 14.48 min Scan# 960

Delta R.T. 0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

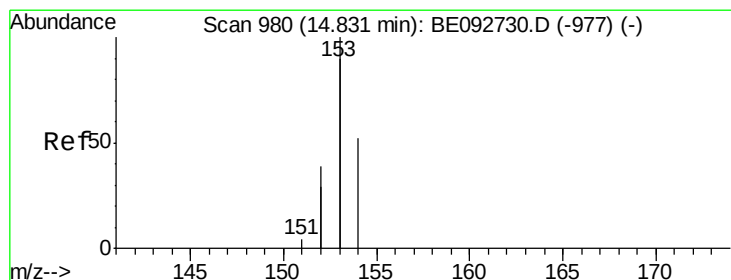
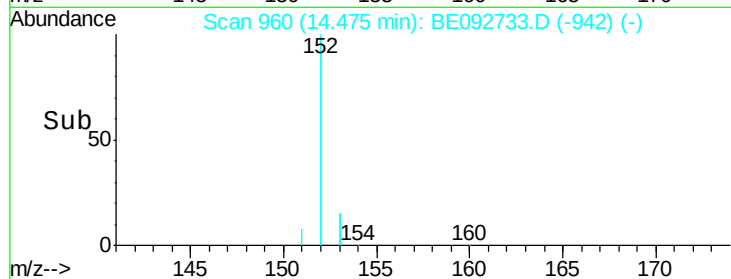
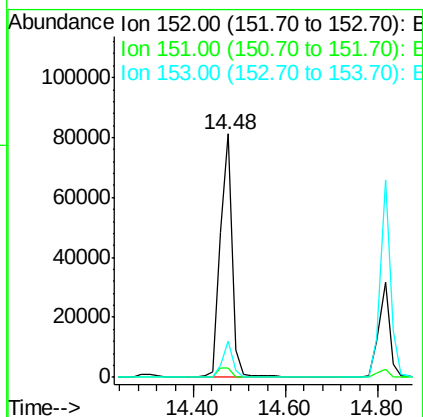
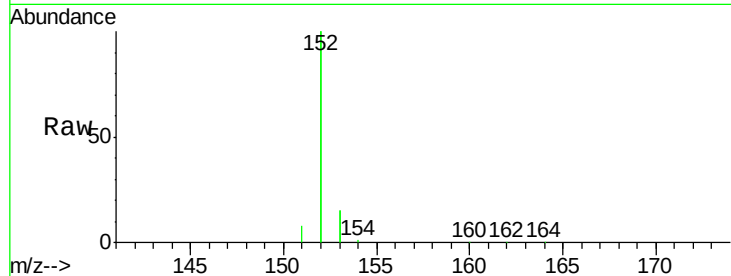
ClientSampleId :

SSTDICC3.2

Tgt Ion:	152	Resp:	145492
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	13.0	10.4	15.6

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#16

Acenaphthene

Concen: 3.20 ng

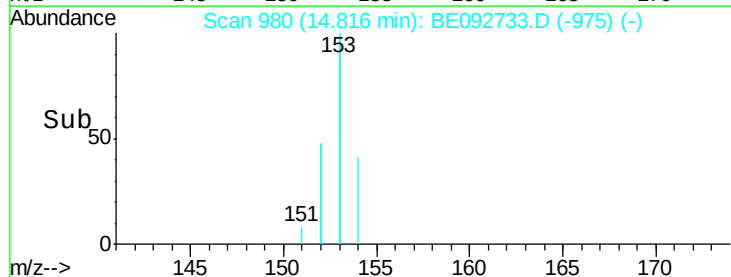
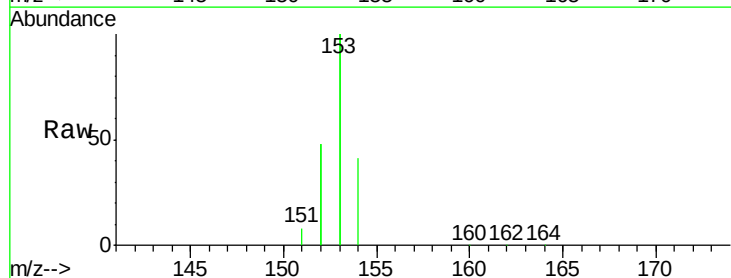
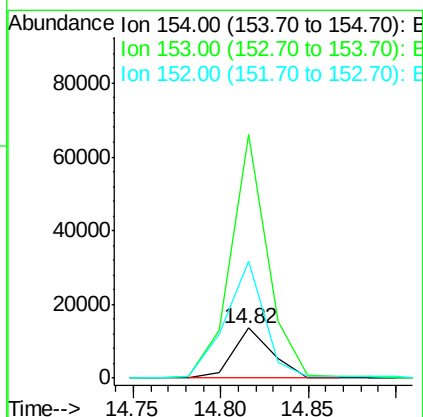
RT: 14.82 min Scan# 980

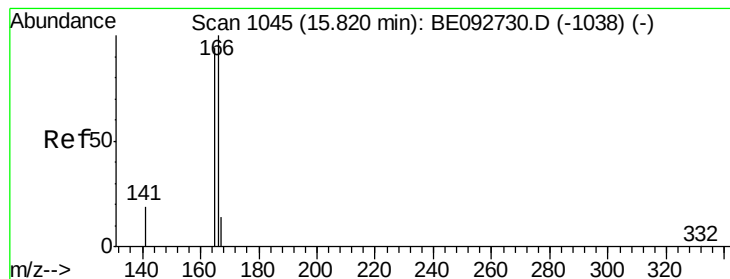
Delta R.T. -0.02 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	154	Resp:	20946
Ion Ratio	Lower	Upper	
154	100		
153	462.6	350.8	526.2
152	234.2	171.1	256.7





#17

Fluorene

Concen: 3.28 ng

RT: 15.81 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

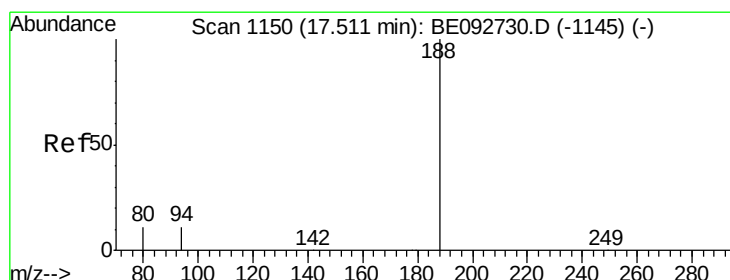
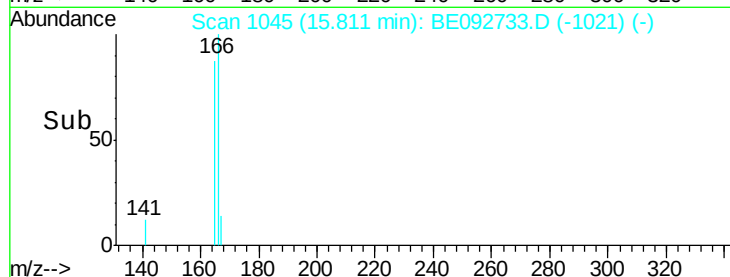
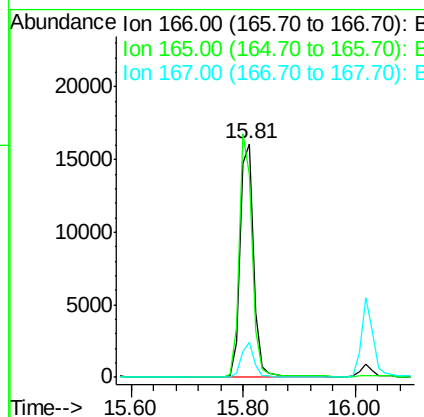
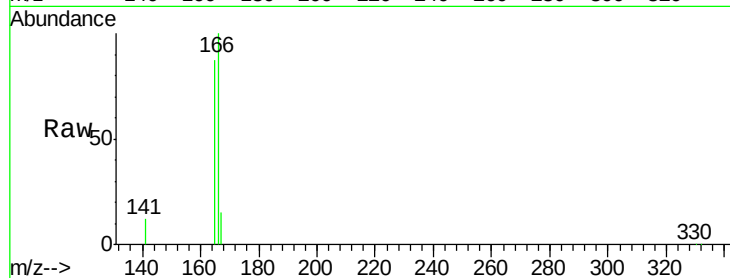
ClientSampleId :

SSTDICC3.2

Tgt Ion:	166	Resp:	26986
Ion Ratio	Lower	Upper	
166	100		
165	99.3	78.2	117.4
167	13.4	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

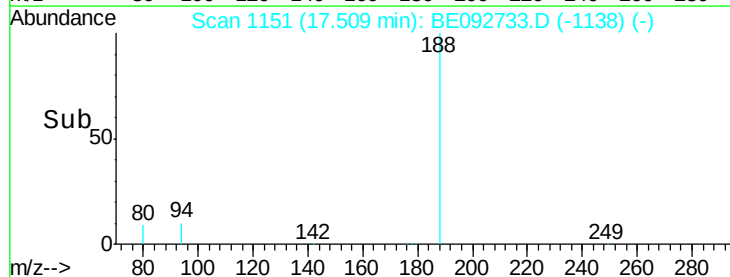
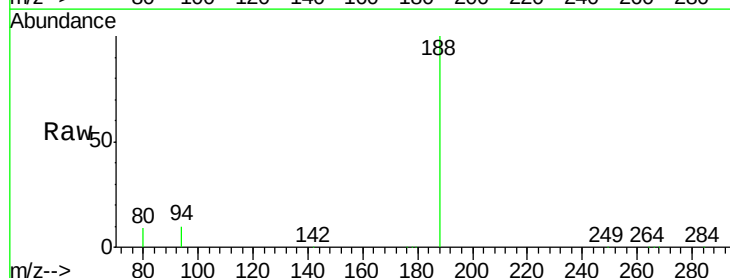
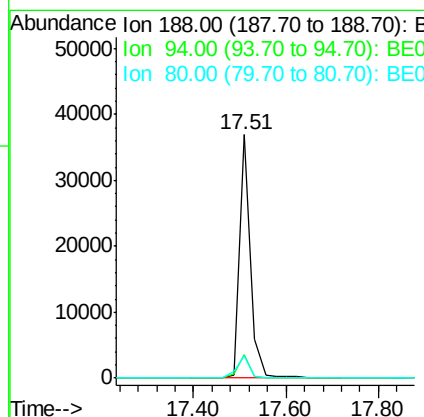
RT: 17.51 min Scan# 1151

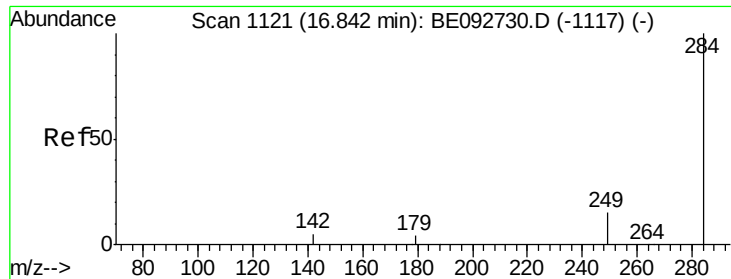
Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	188	Resp:	60945
Ion Ratio	Lower	Upper	
188	100		
94	9.9	3.2	4.8#
80	9.2	2.6	3.8#





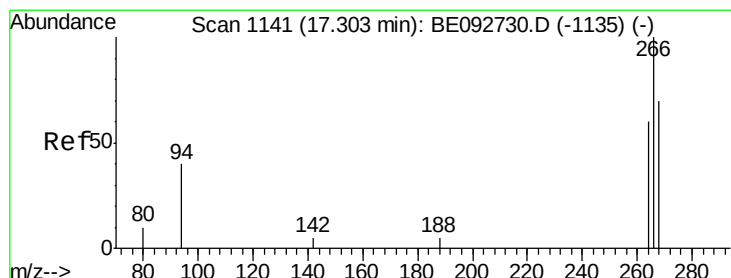
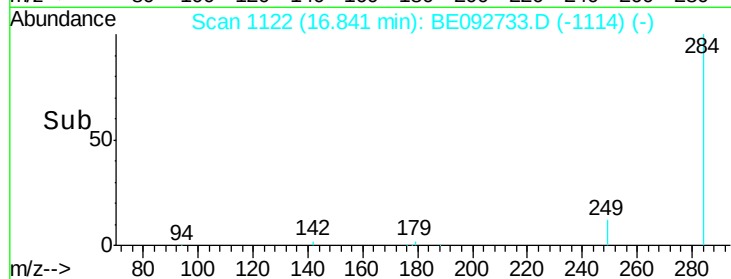
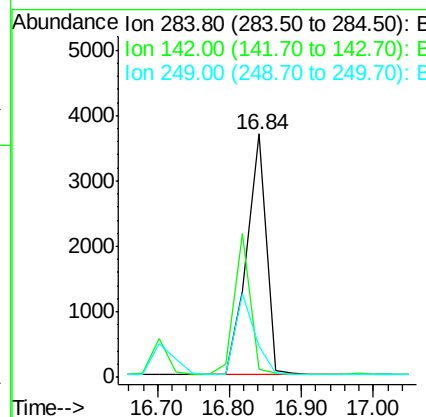
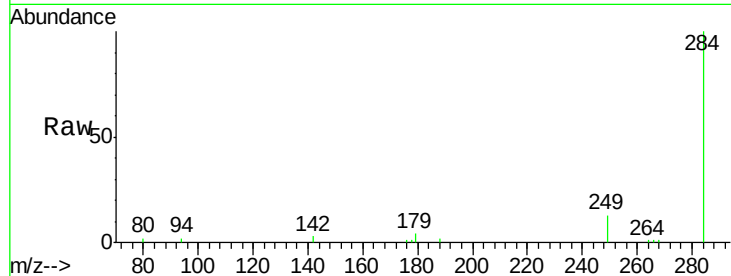
#19
Hexachlorobenzene
Concen: 3.03 ng
RT: 16.84 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	6971		
142	0.0	29.1	43.7#	
249	0.0	27.9	41.9#	

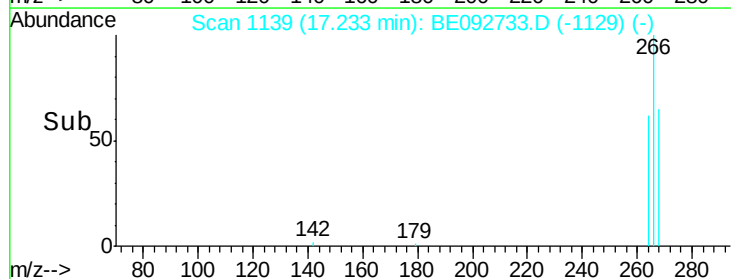
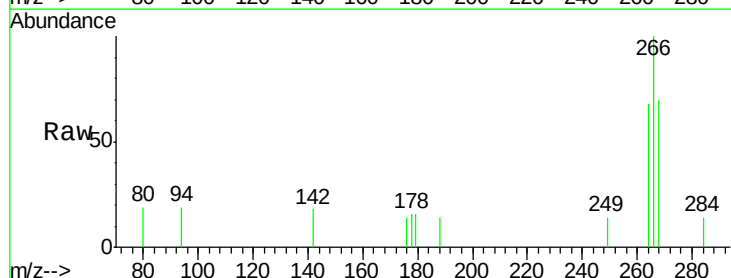
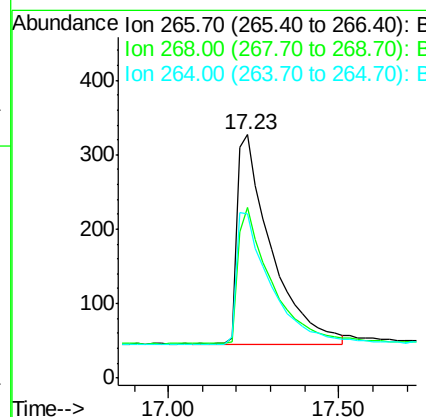
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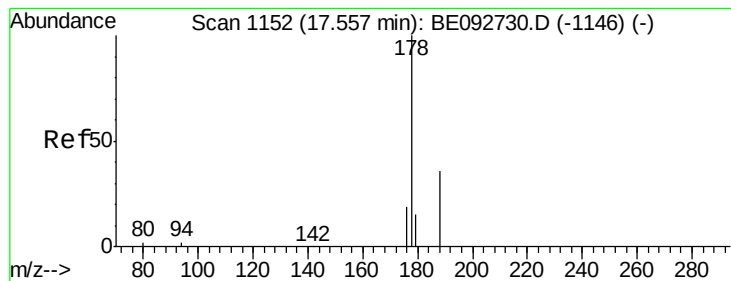
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#20
Pentachlorophenol
Concen: 3.14 ng
RT: 17.23 min Scan# 1139
Delta R.T. -0.07 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	1970		
268	70.0	62.5	93.7	
264	67.6	57.2	85.8	





#21

Phenanthrene

Concen: 3.54 ng

RT: 17.56 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

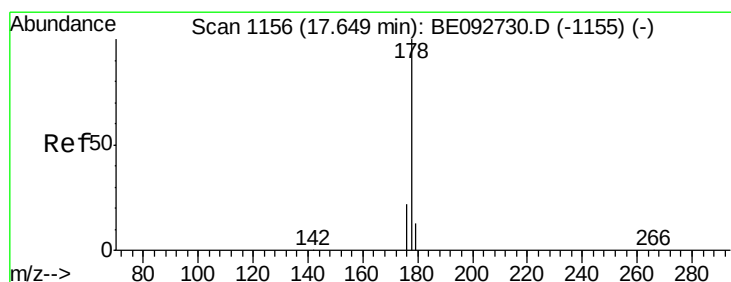
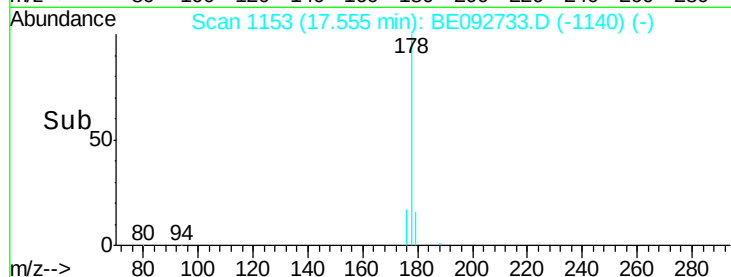
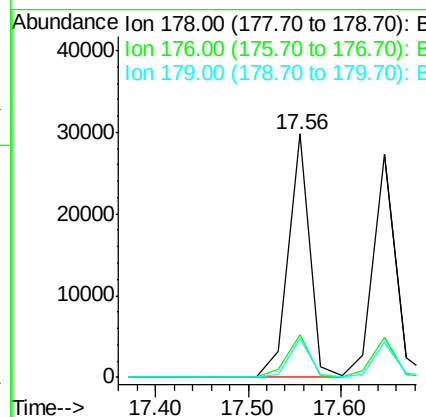
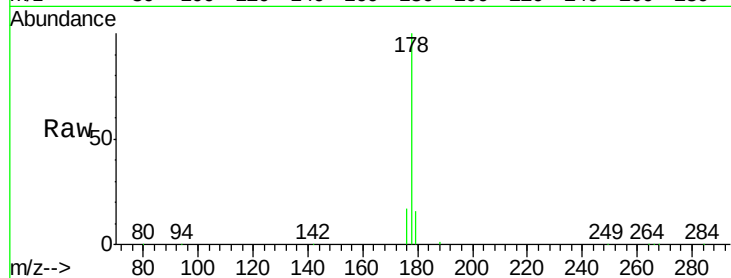
ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	15.7	16.0	24.0

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#22

Anthracene

Concen: 3.70 ng

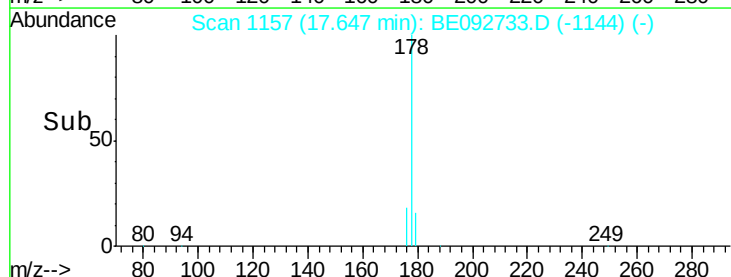
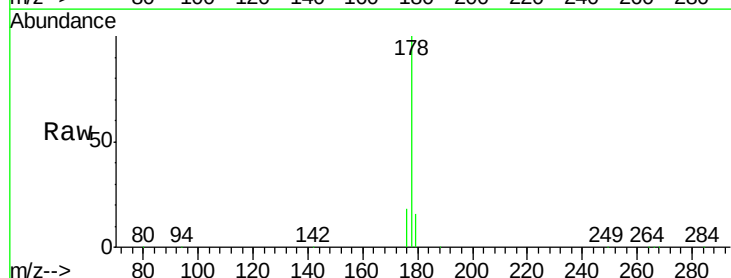
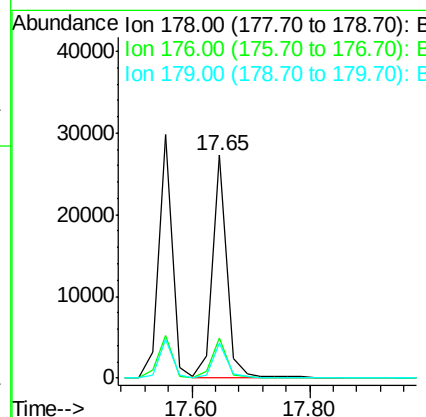
RT: 17.65 min Scan# 1157

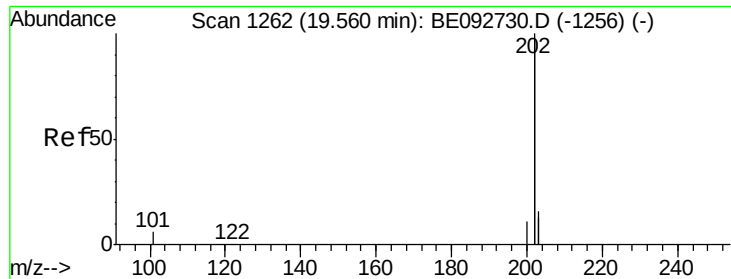
Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.0	22.4
179	15.6	12.2	18.2





#23

Fluoranthene

Concen: 3.32 ng

RT: 19.56 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Instrument :

BNA_E

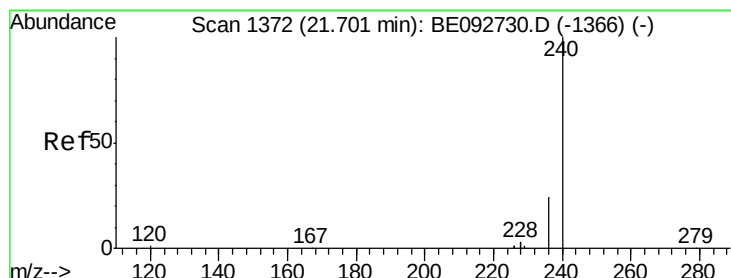
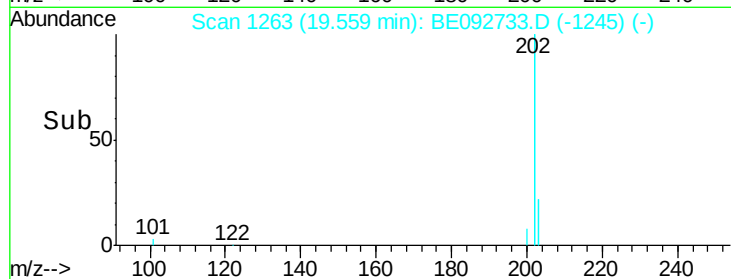
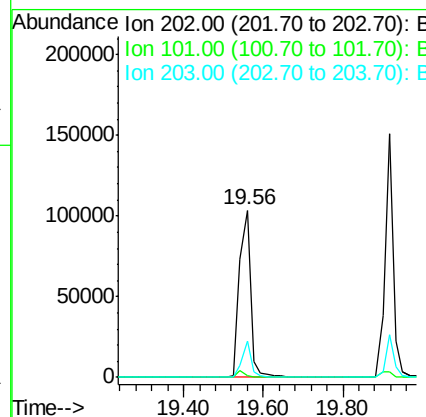
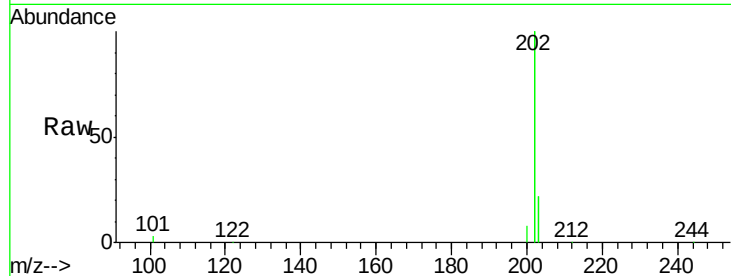
ClientSampleId :

SSTDICC3.2

Tgt Ion:	202	Resp:	198363
Ion Ratio		Lower	Upper
202	100		
101	3.0	2.2	3.4
203	17.8	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

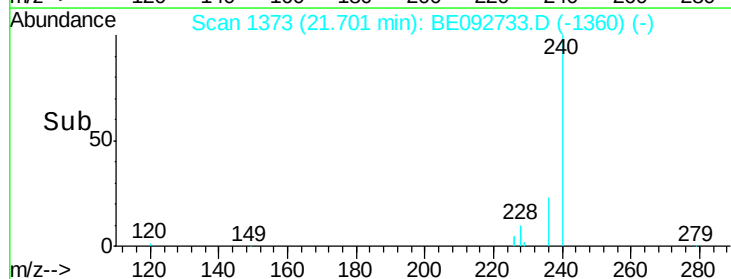
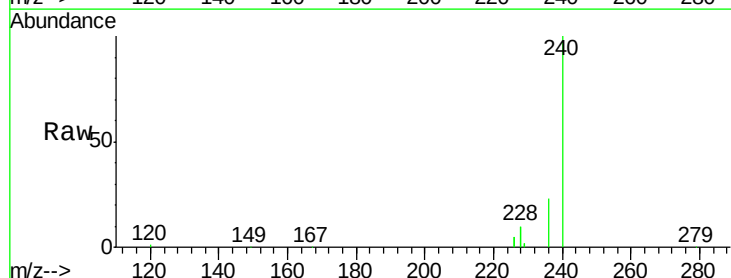
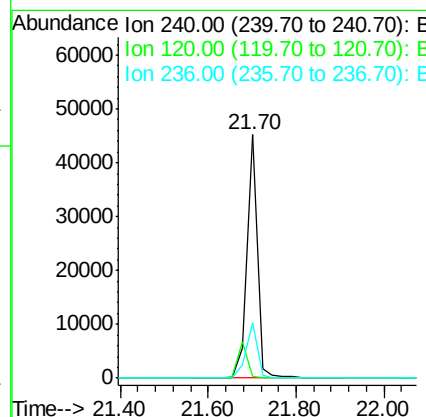
RT: 21.70 min Scan# 1373

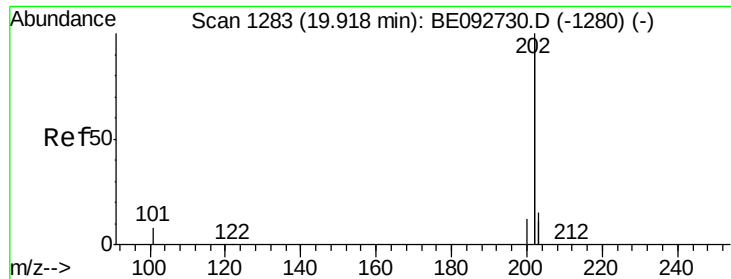
Delta R.T. -0.00 min

Lab File: BE092733.D

Acq: 15 Feb 2017 14:59

Tgt Ion:	240	Resp:	73186
Ion Ratio		Lower	Upper
240	100		
120	0.8	2.6	4.0#
236	22.8	24.6	37.0#





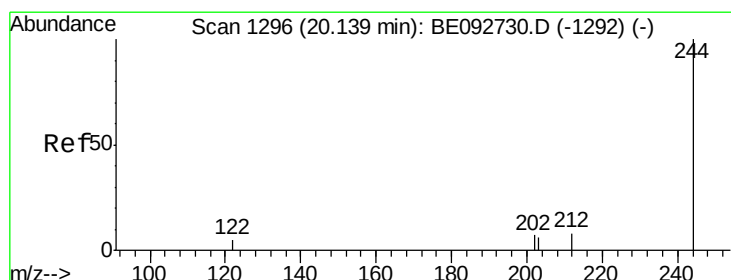
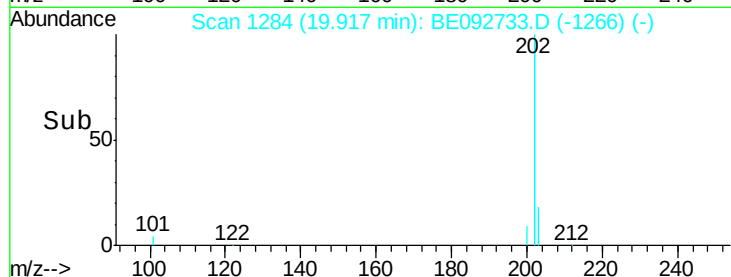
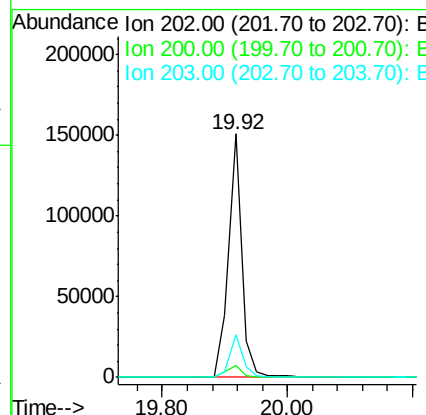
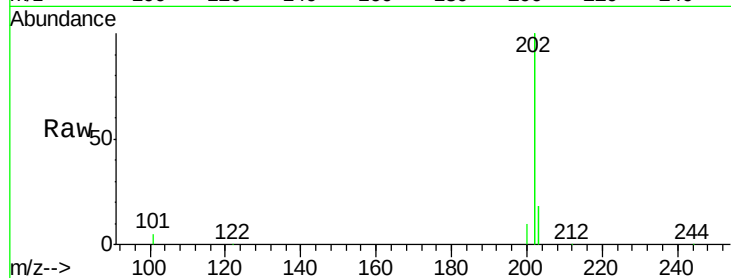
#25
 Pyrene
 Concen: 3.08 ng
 RT: 19.92 min Scan# 1284
 Delta R.T. -0.00 min
 Lab File: BE092733.D
 Acq: 15 Feb 2017 14:59

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC3.2

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	221929		
200	5.3	4.2	6.4	
203	17.5	13.9	20.9	

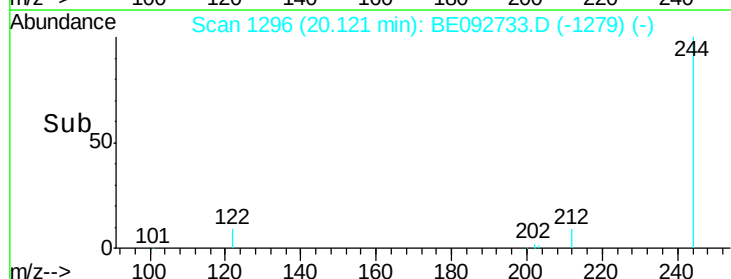
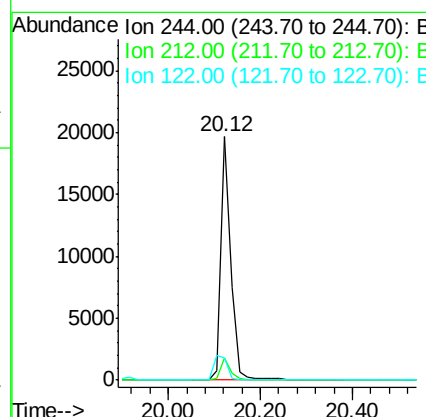
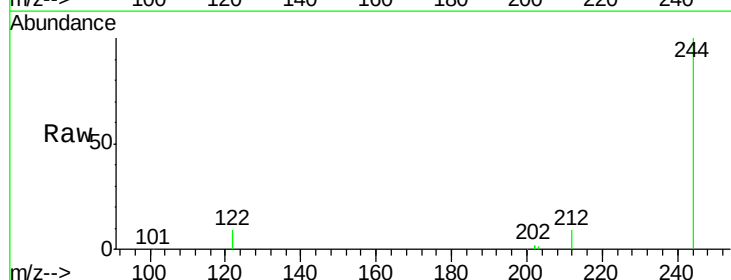
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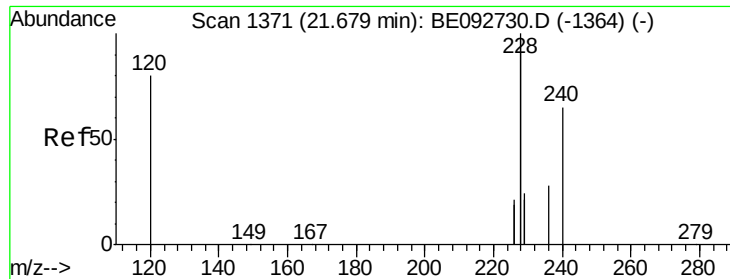
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#26
 Terphenyl-d14
 Concen: 2.87 ng
 RT: 20.12 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: BE092733.D
 Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	29730		
212	9.1	6.7	10.1	
122	9.2	3.6	5.4	





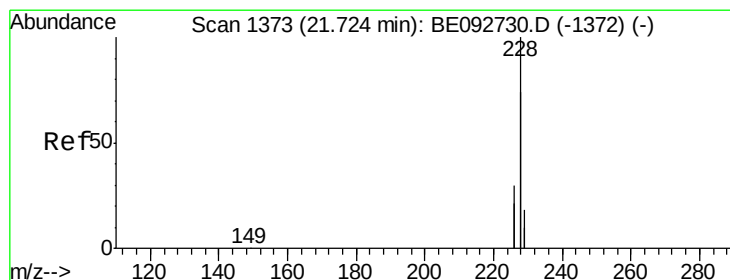
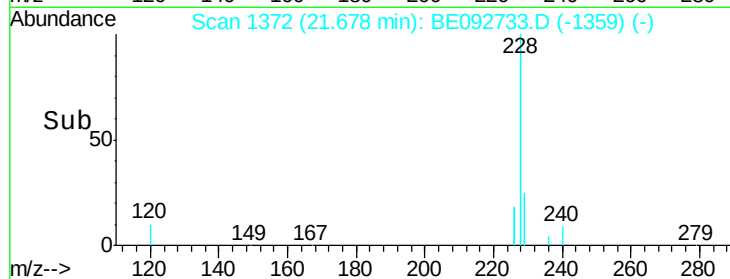
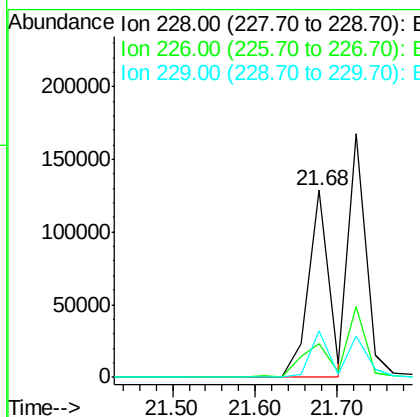
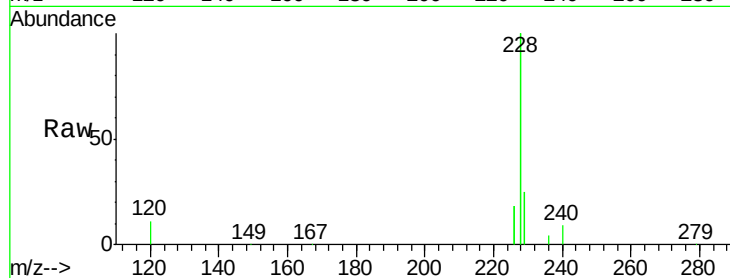
#27
Benzo(a)anthracene
Concen: 3.03 ng
RT: 21.68 min Scan# 1372
Delta R.T. -0.00 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
228	100		
226	18.2	23.6	35.4#
229	24.5	13.3	19.9#

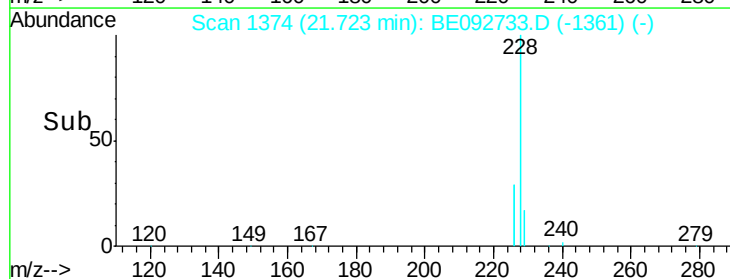
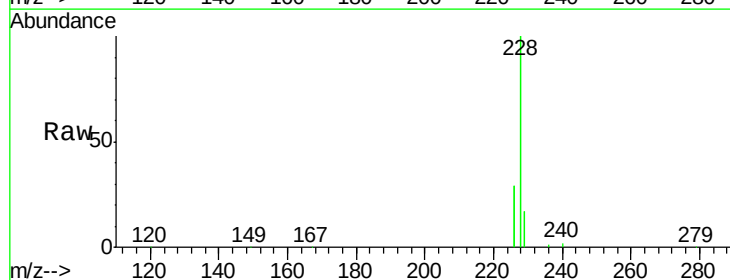
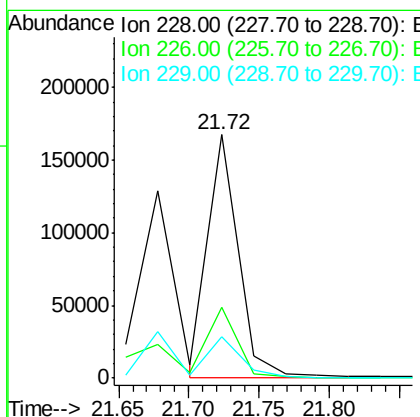
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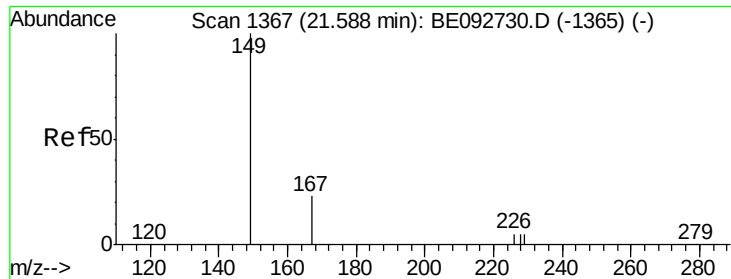
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#28
Chrysene
Concen: 3.16 ng m
RT: 21.72 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	36.3	54.5#
229	17.1	10.6	16.0#





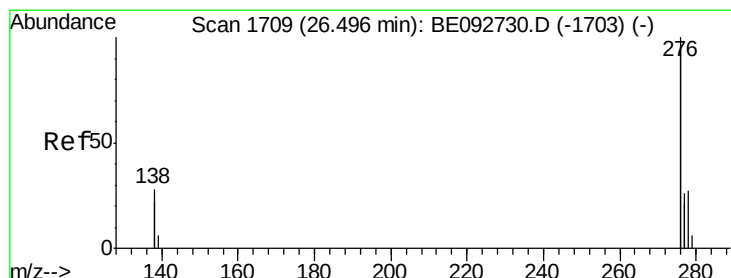
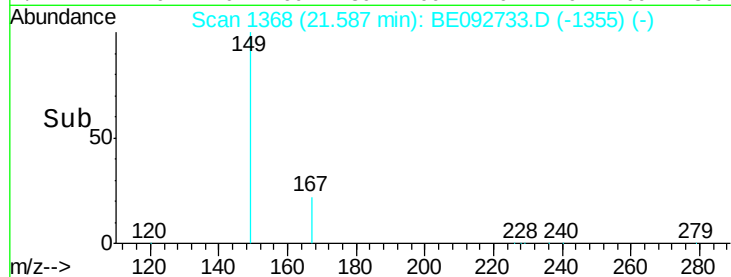
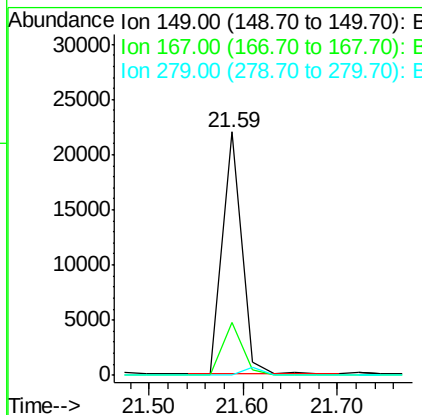
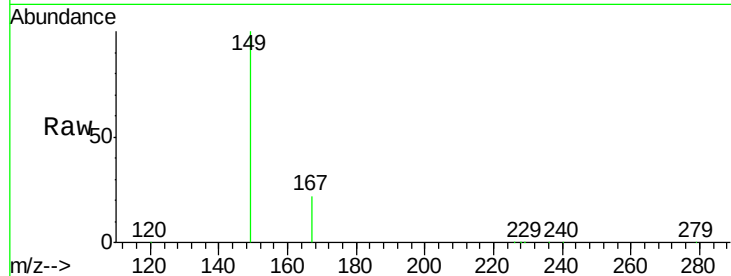
#29
Bis(2-ethylhexyl)phthalate
Concen: 2.37 ng
RT: 21.59 min Scan# 1368
Delta R.T. -0.00 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.8	16.0	24.0
279	0.0	16.0	24.0

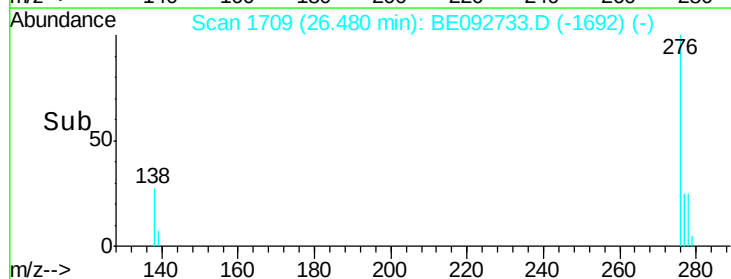
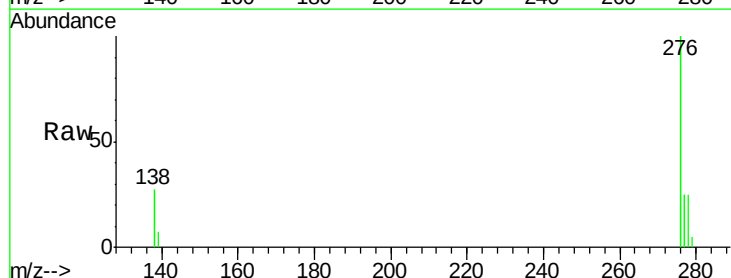
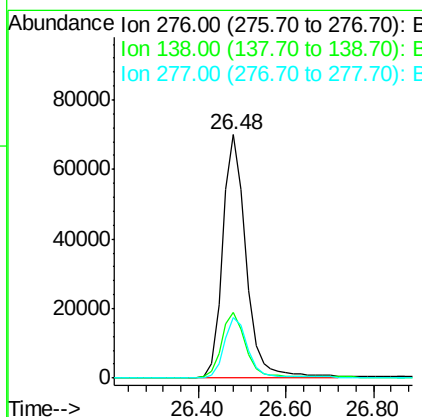
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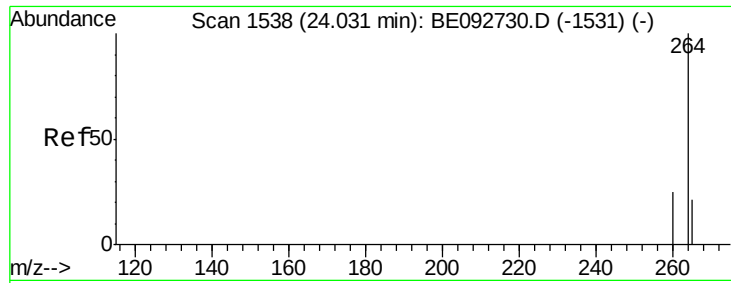
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#30
Indeno(1,2,3-cd)pyrene
Concen: 2.93 ng
RT: 26.48 min Scan# 1709
Delta R.T. -0.02 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.7	20.3	30.5
277	24.9	19.7	29.5





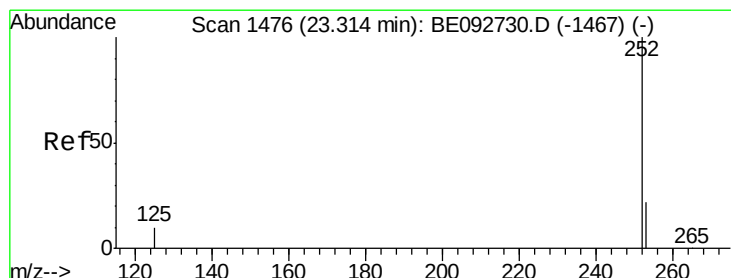
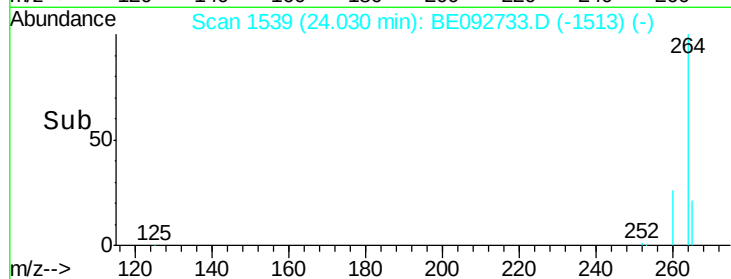
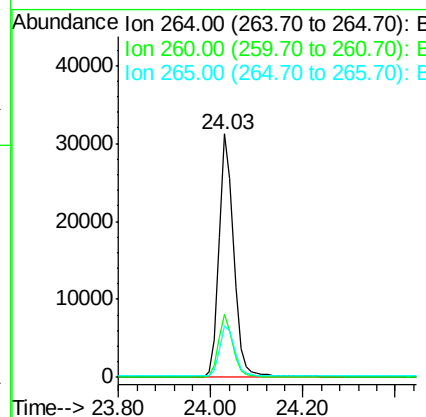
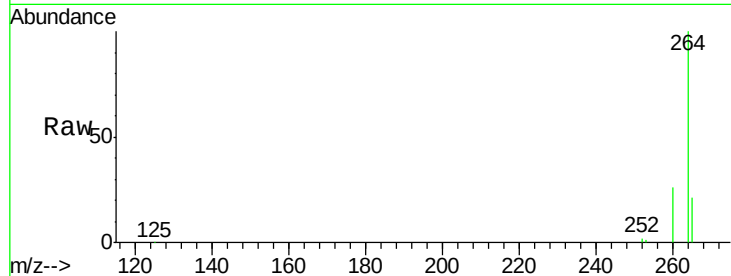
#31
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.03 min Scan# 1539
 Delta R.T. -0.00 min
 Lab File: BE092733.D
 Acq: 15 Feb 2017 14:59

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.0	20.1	30.1
265	21.1	17.9	26.9

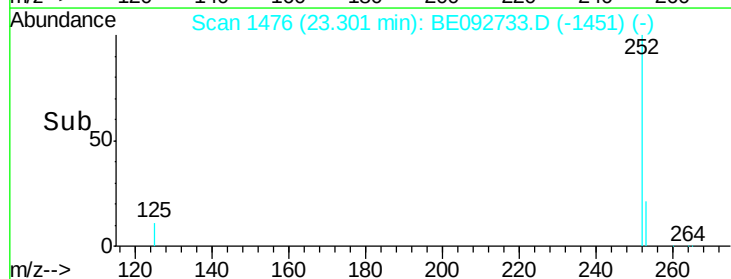
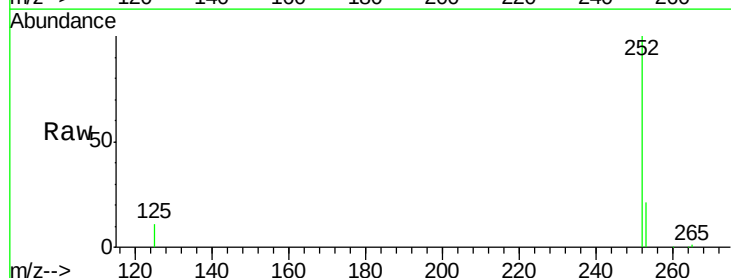
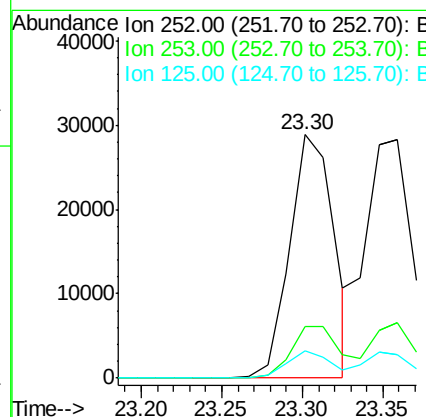
Manual Integrations
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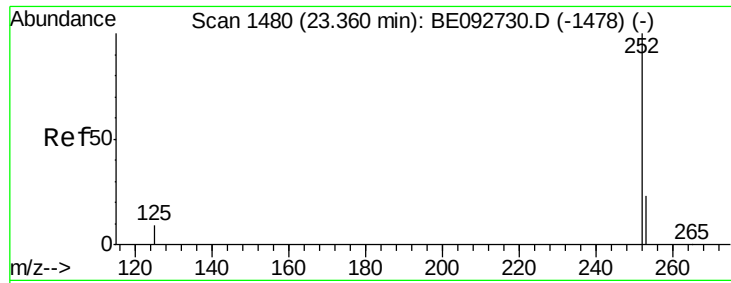
mohammad
 2/16/2017 11:44:36 AM



#32
 Benzo(b)fluoranthene
 Concen: 3.29 ng
 RT: 23.30 min Scan# 1476
 Delta R.T. -0.01 min
 Lab File: BE092733.D
 Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.7	28.1
125	11.2	10.5	15.7





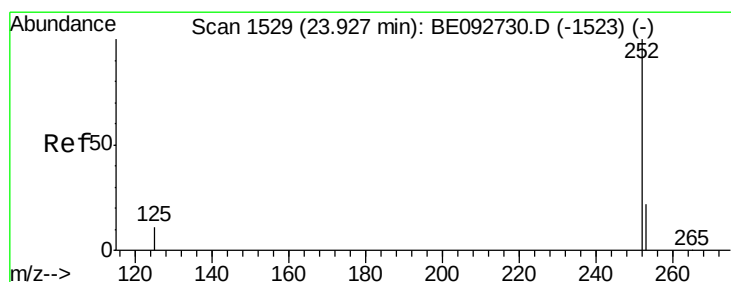
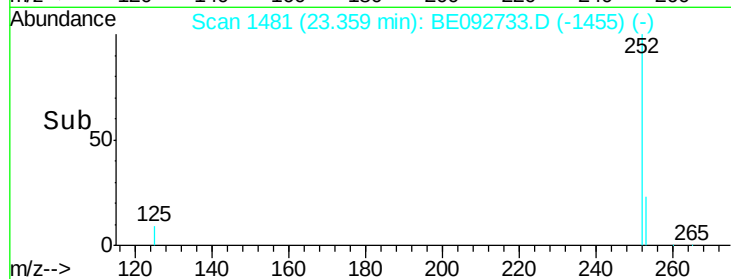
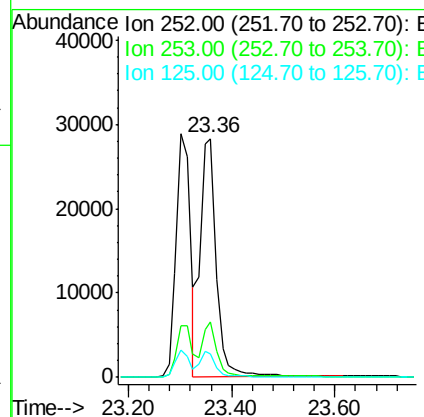
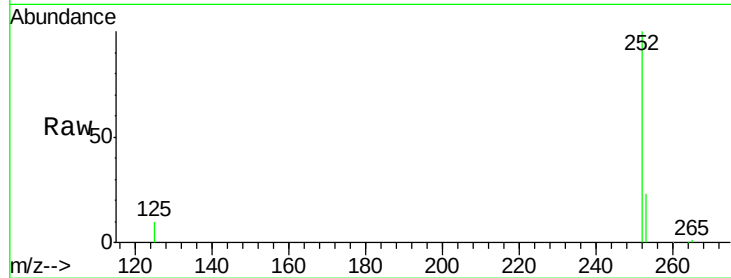
#33
Benzo(k)fluoranthene
Concen: 3.61 ng
RT: 23.36 min Scan# 1481
Delta R.T. -0.00 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	20.3	30.5
125	9.7	9.6	14.4

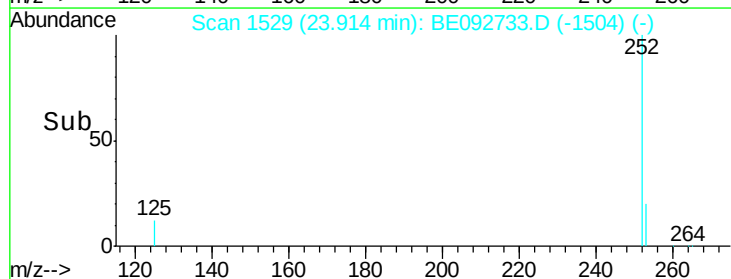
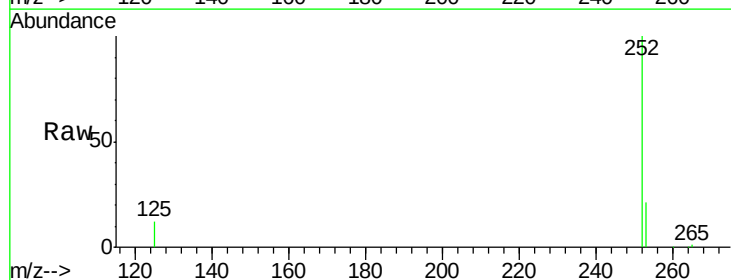
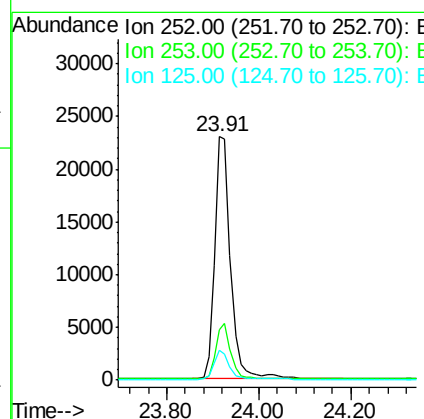
Manual Integrations
APPROVED

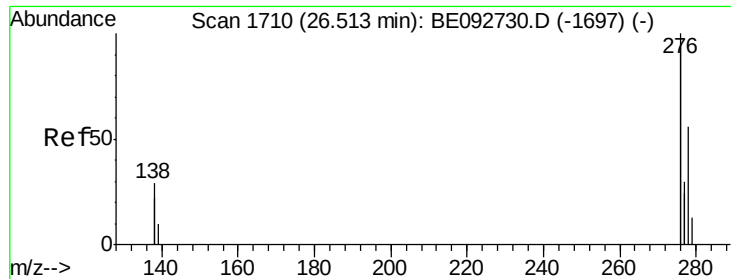
mohammad
2/16/2017 11:44:36 AM



#34
Benzo(a)pyrene
Concen: 3.53 ng
RT: 23.91 min Scan# 1529
Delta R.T. -0.01 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.8	19.0	28.6
125	12.3	11.8	17.8





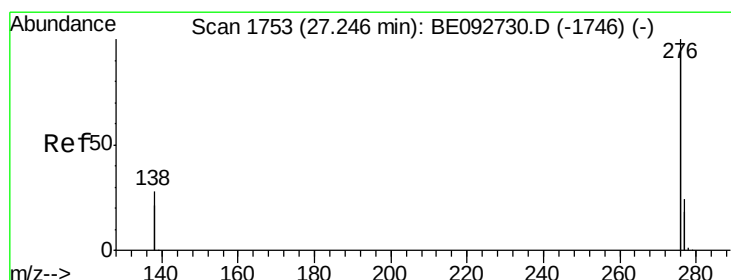
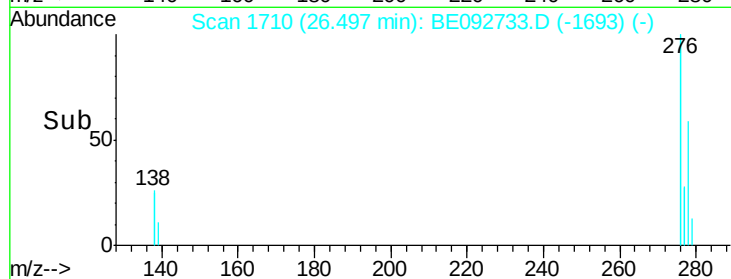
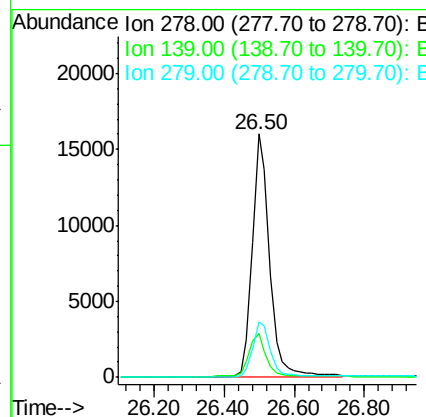
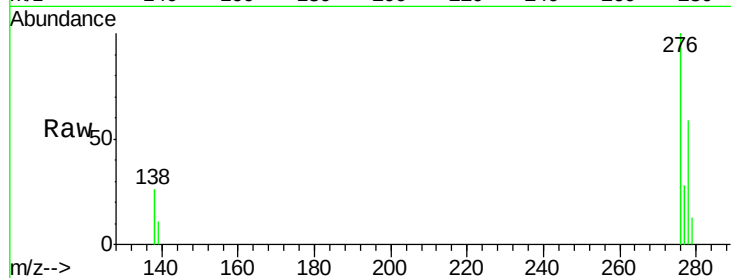
#35
Dibenzo(a,h)anthracene
Concen: 3.55 ng
RT: 26.50 min Scan# 1710
Delta R.T. -0.02 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.2	13.8	20.8
279	22.8	21.4	32.2

Manual Integrations
APPROVED

mohammad
2/16/2017 11:44:36 AM



#36
Benzo(g,h,i)perylene
Concen: 3.43 ng
RT: 27.23 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BE092733.D
Acq: 15 Feb 2017 14:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.6	19.8	29.8
138	25.1	19.8	29.6

