

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110816\
 Data File : BE092503.D
 Acq On : 8 Nov 2016 11:30
 Operator : UM/SJ
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations
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 11/9/2016 10:58:47 AM

Quant Time: Nov 08 12:57:06 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE110816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 08 12:49:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	7660	5.00	ng	0.00
7) Naphthalene-d8	10.93	136	36693	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	25822	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	59686	5.00	ng	0.00
24) Chrysene-d12	21.72	240	86948	5.00	ng	0.00
31) Perylene-d12	24.09	264	83771	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.66	112	621	0.53	ng	0.00
5) Phenol-d6	7.34	99	789	0.49	ng	0.00
8) Nitrobenzene-d5	9.34	82	837m	0.41	ng	0.00
13) 2,4,6-Tribromophenol	16.31	330	229	0.45	ng	0.00
14) 2-Fluorobiphenyl	13.43	172	2473	0.39	ng	0.00
26) Terphenyl-d14	20.17	244	3880	0.36	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.39	88	417	0.42	ng	97
3) n-Nitrosodimethylamine	3.76	42	483	0.53	ng	# 90
6) bis(2-Chloroethyl)ether	7.59	93	907	0.47	ng	# 28
9) Naphthalene	10.99	128	3192	0.40	ng	99
10) Hexachlorobutadiene	11.28	225	495	0.41	ng	99
11) 2-Methylnaphthalene	12.62	142	1980	0.39	ng	96
15) Acenaphthylene	14.53	152	13885	0.38	ng	100
16) Acenaphthene	14.87	154	2319	0.39	ng	96
17) Fluorene	15.86	166	2857	0.41	ng	100
19) Hexachlorobenzene	16.87	284	846	0.32	ng	# 76
20) Pentachlorophenol	17.23	266	224	0.48	ng	98
21) Phenanthrene	17.60	178	5040	0.33	ng	95
22) Anthracene	17.70	178	4850	0.35	ng	98
23) Fluoranthene	19.59	202	25338	0.41	ng	99
25) Pyrene	19.95	202	26246	0.35	ng	100
27) Benzo(a)anthracene	21.70	228	32395m	0.40	ng	
28) Chrysene	21.77	228	38598m	0.46	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	3263	0.49	ng	# 72
30) Indeno(1,2,3-cd)pyrene	26.56	276	38903	0.52	ng	99
32) Benzo(b)fluoranthene	23.36	252	13126	0.63	ng	98
33) Benzo(k)fluoranthene	23.40	252	13006	0.63	ng	97
34) Benzo(a)pyrene	23.97	252	8374	0.44	ng	99
35) Dibenzo(a,h)anthracene	26.60	278	7952	0.45	ng	99
36) Benzo(g,h,i)perylene	27.33	276	32627	0.43	ng	98

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

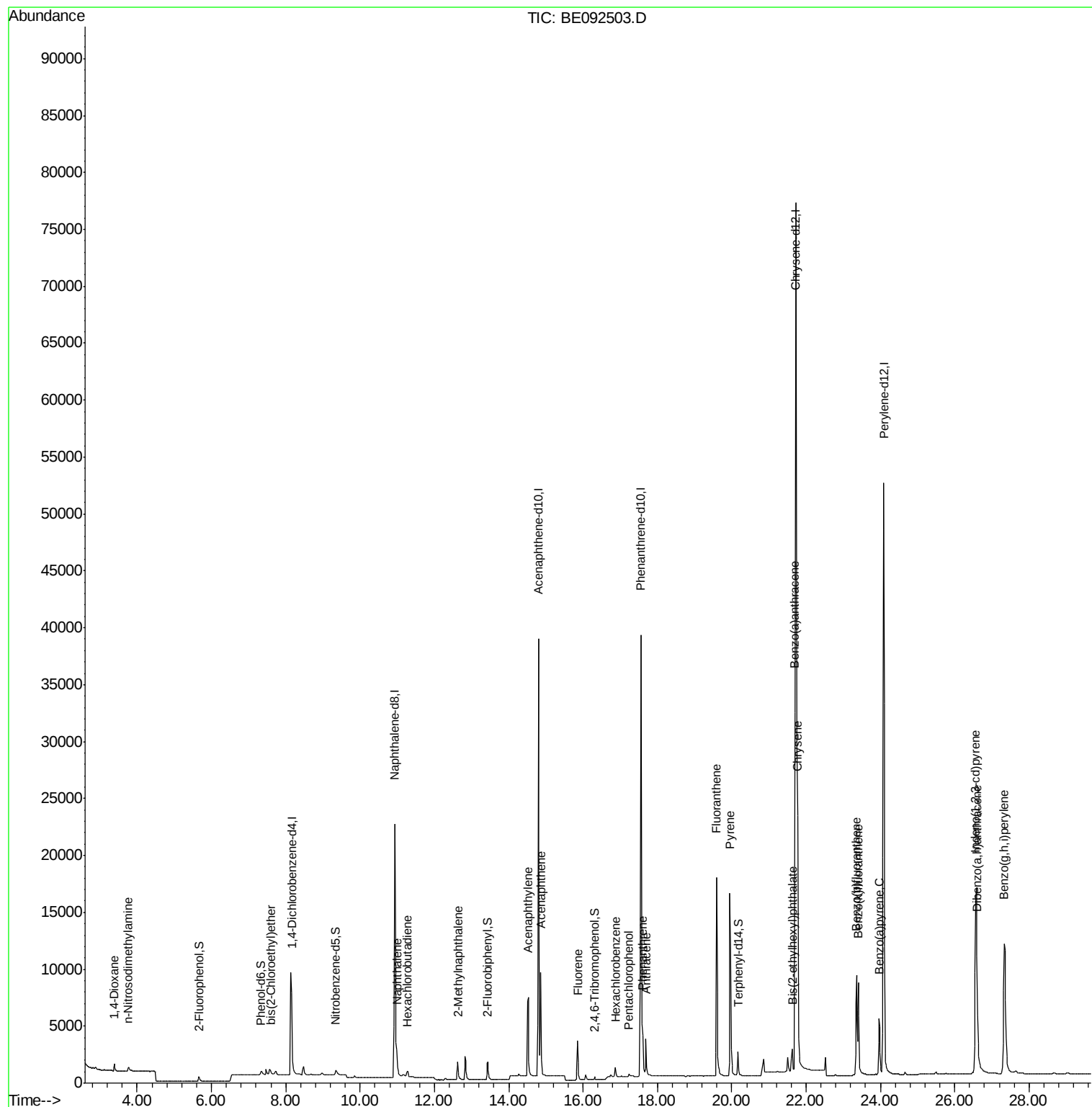
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110816\
Data File : BE092503.D
Acq On : 8 Nov 2016 11:30
Operator : UM/SJ
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

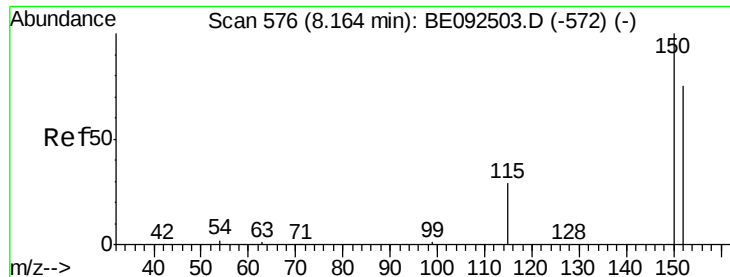
Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

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Quant Time: Nov 08 12:57:06 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE110816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 08 12:49:14 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Instrument :

BNA_E

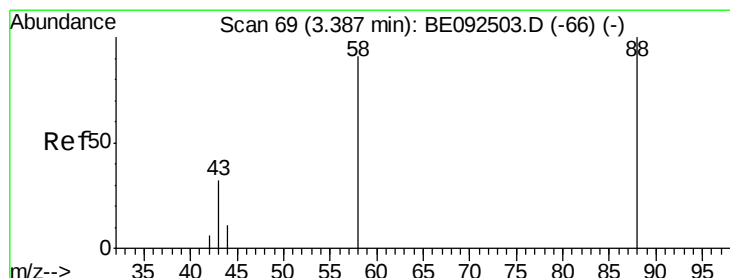
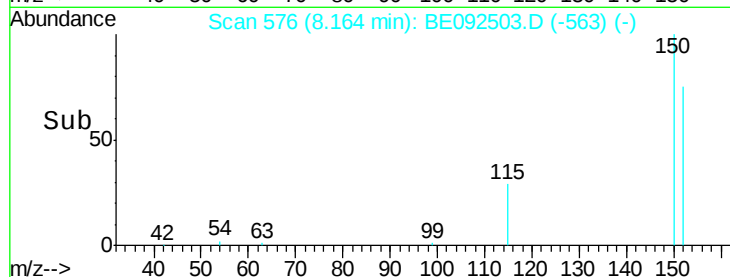
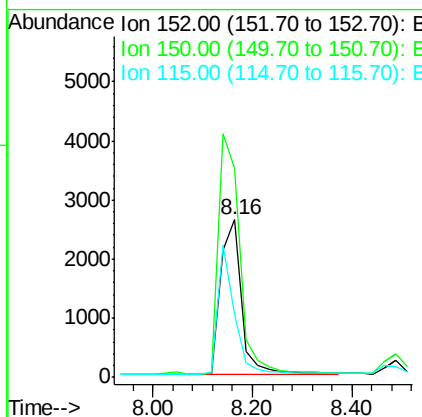
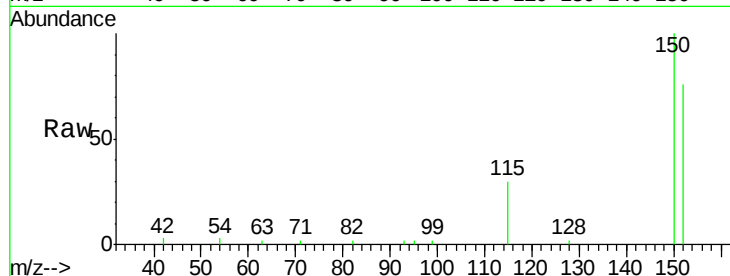
ClientSampleId :

SSTDICCC0.4

Tot Ion:	152	Resp:	7660
Ion	Ratio	Lower	Upper
152	100		
150	132.1	106.0	159.0
115	39.7	31.2	46.8

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#2

1,4-Dioxane

Concen: 0.42 ng

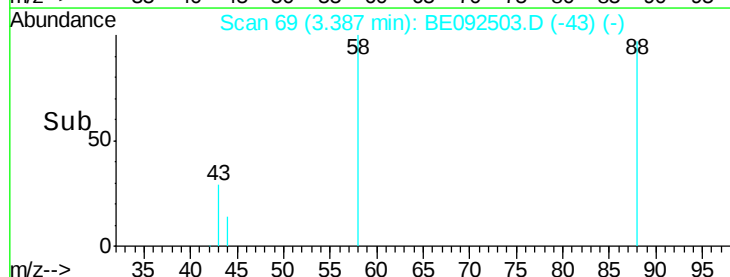
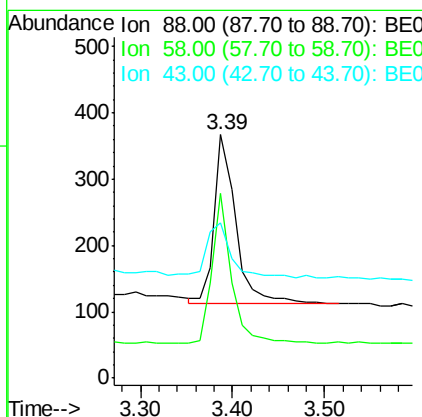
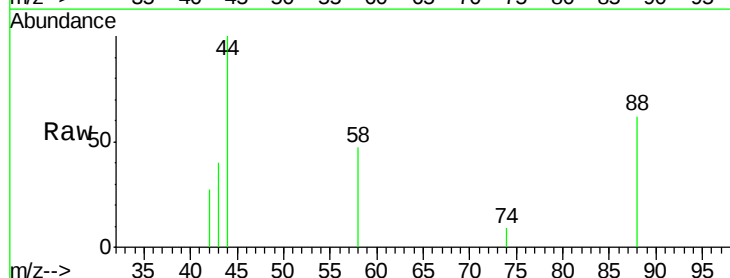
RT: 3.39 min Scan# 69

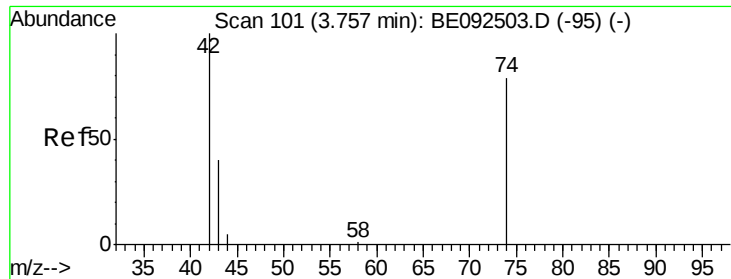
Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Tgt Ion:	88	Resp:	417
Ion	Ratio	Lower	Upper
88	100		
58	77.2	63.6	95.4
43	37.9	28.0	42.0





#3

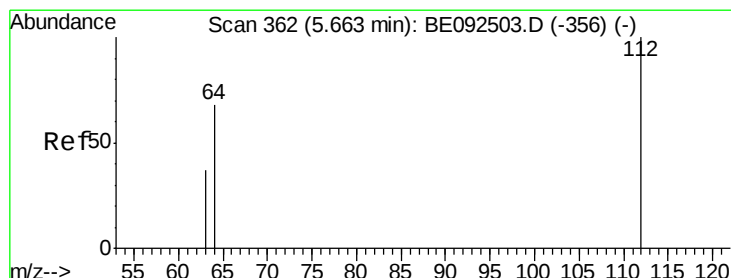
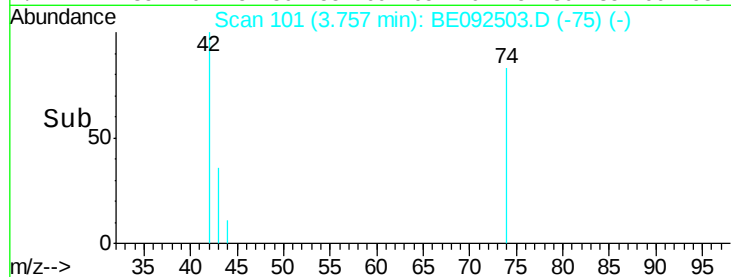
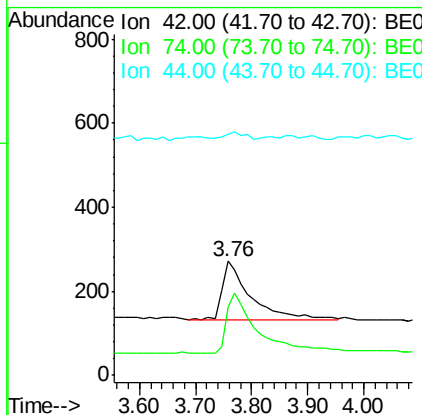
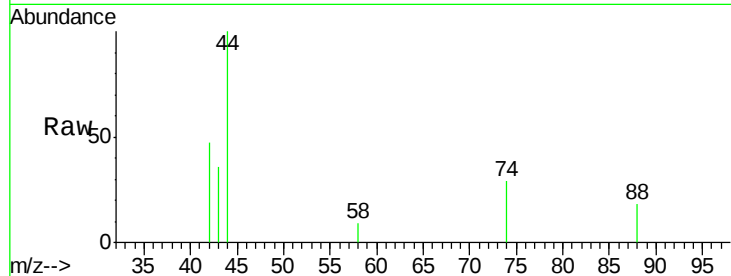
n-Nitrosodimethylamine
 Concen: 0.53 ng
 RT: 3.76 min Scan# 101
 Delta R.T. 0.00 min
 Lab File: BE092503.D
 Acq: 8 Nov 2016 11:30

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
42	100		
74	118.0	86.0	129.0
44	8.3	5.1	7.7#

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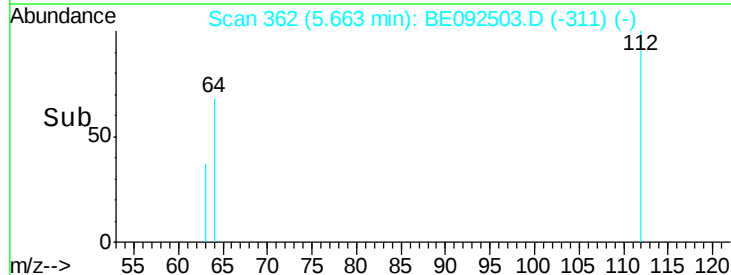
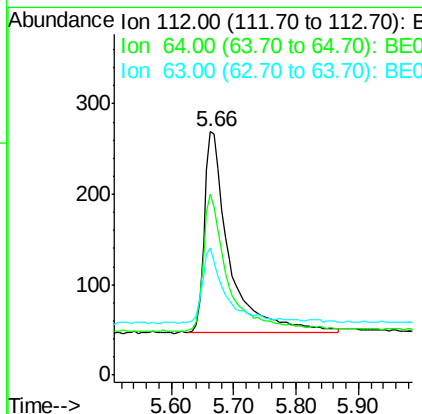
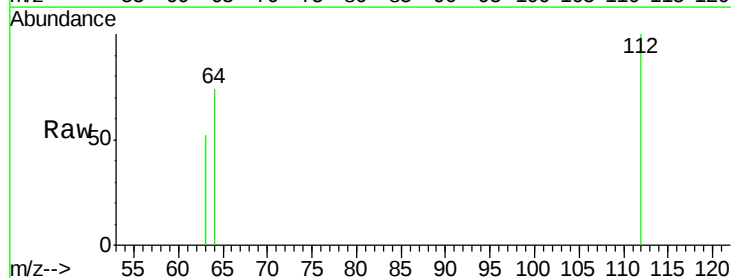
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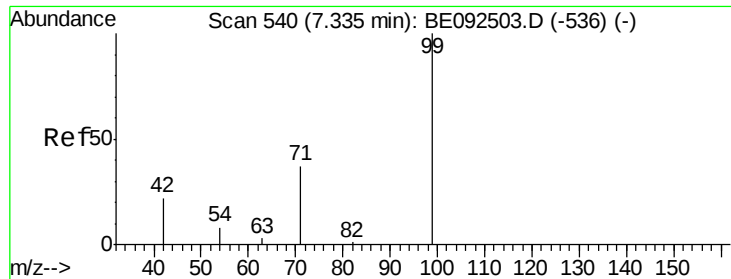


#4

2-Fluorophenol
 Concen: 0.53 ng
 RT: 5.66 min Scan# 362
 Delta R.T. 0.00 min
 Lab File: BE092503.D
 Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.2	53.5	80.3
63	34.5	27.9	41.9





#5

Phenol-d6

Concen: 0.49 ng

RT: 7.34 min Scan# 540

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Instrument :

BNA_E

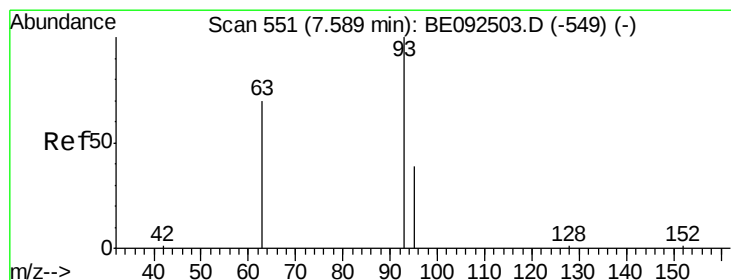
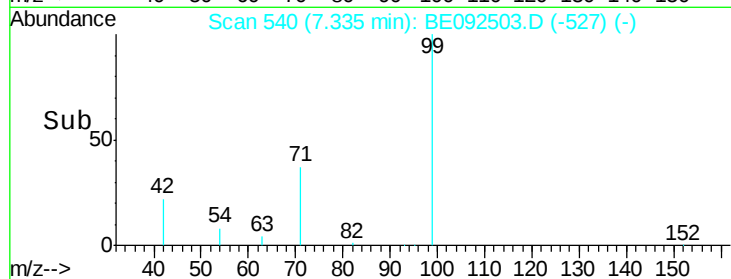
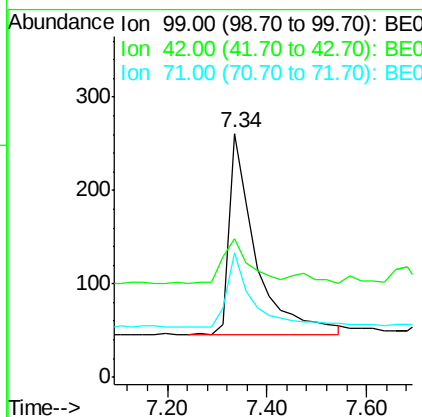
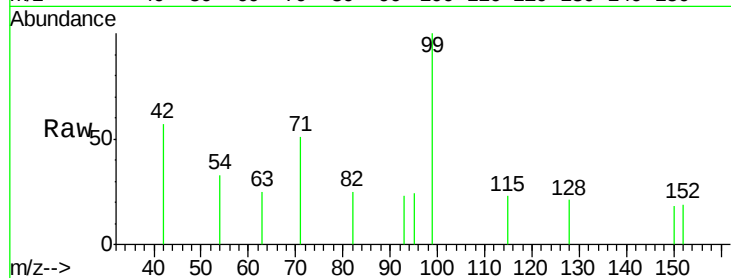
ClientSampleId :

SSTDICCC0.4

Tot Ion:	99	Resp:	789
Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.0	24.0
71	35.0	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 0.47 ng

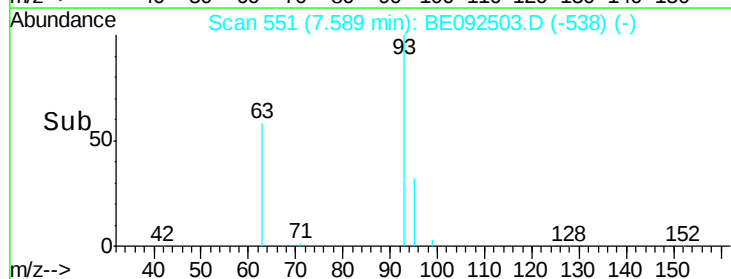
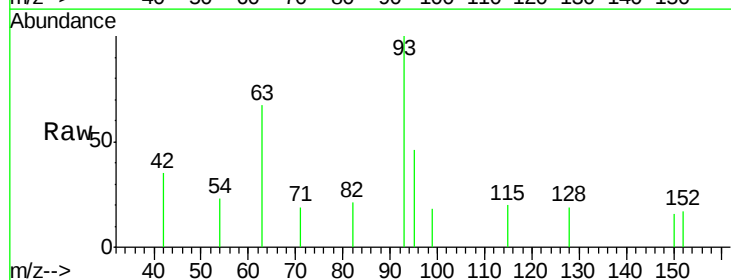
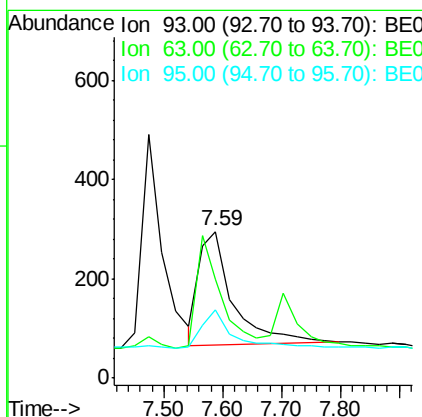
RT: 7.59 min Scan# 551

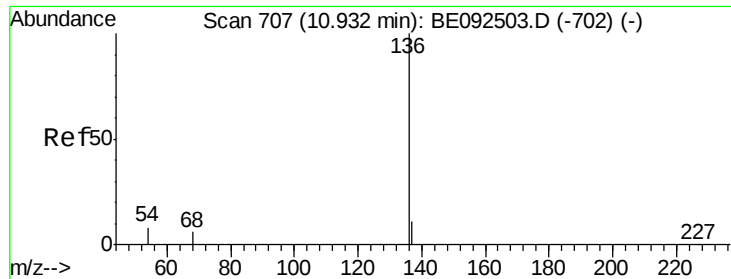
Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Tgt Ion:	93	Resp:	907
Ion	Ratio	Lower	Upper
93	100		
63	0.0	71.6	107.4#
95	30.7	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Instrument :

BNA_E

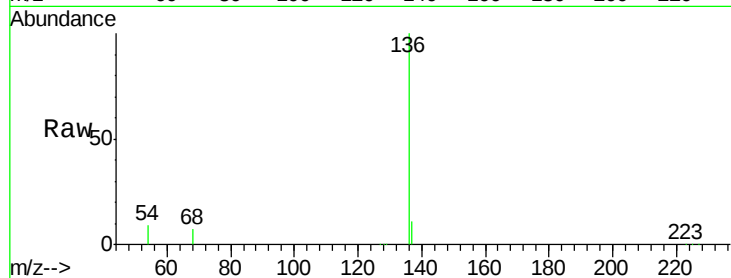
ClientSampleId :

SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.2	12.4
54	8.8	9.6	14.4#
68	6.5	6.7	10.1#

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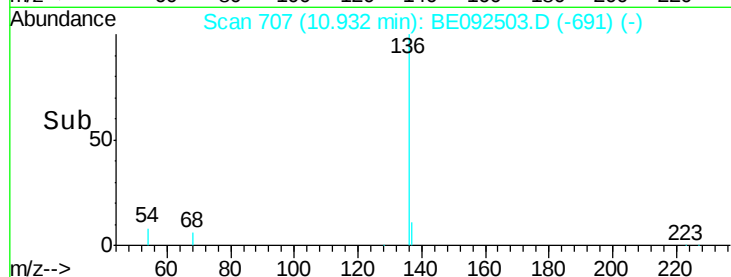
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

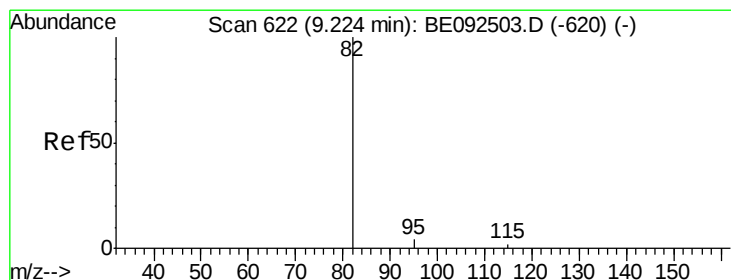
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 0.41 ng m

RT: 9.34 min Scan# 627

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

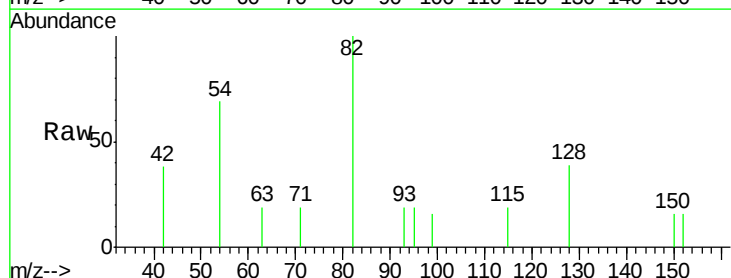
Tgt Ion	Ratio	Lower	Upper
82	100		
128	39.2	39.0	58.4
54	68.8	44.8	67.2#

Abundance Ion 82.00 (81.70 to 82.70): BE0

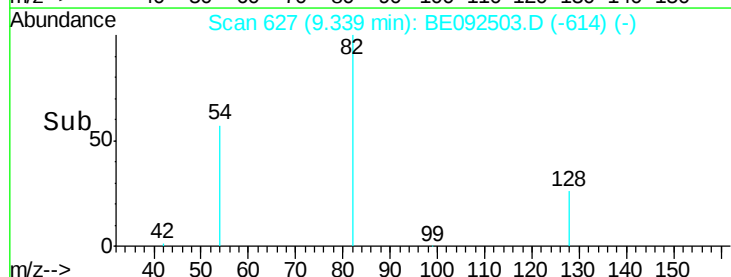
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

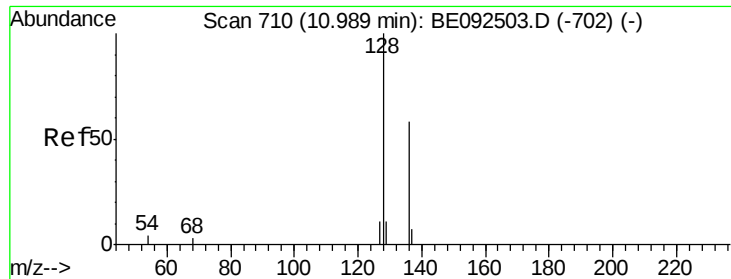
Time-->



Time-->



Time-->



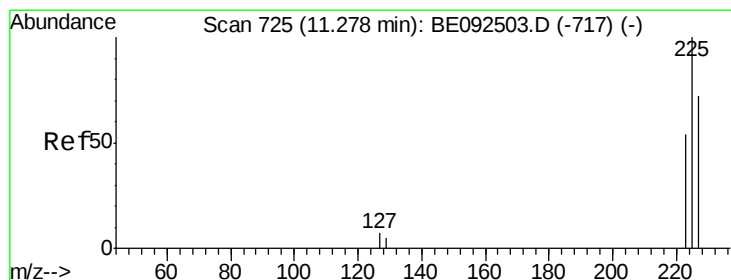
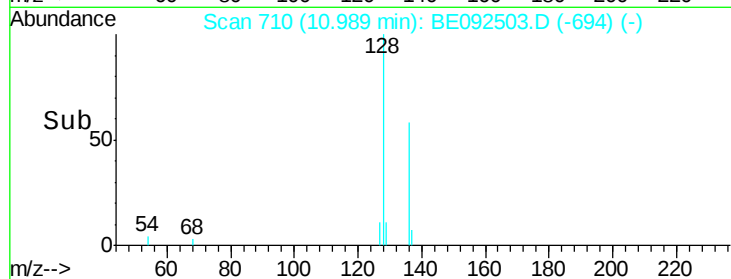
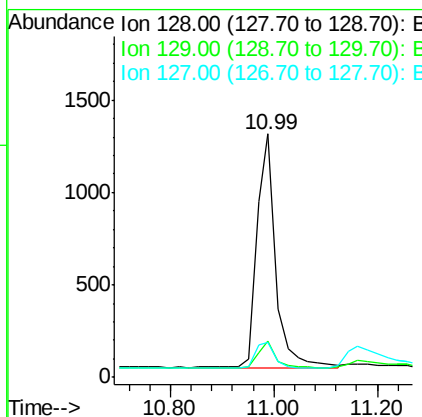
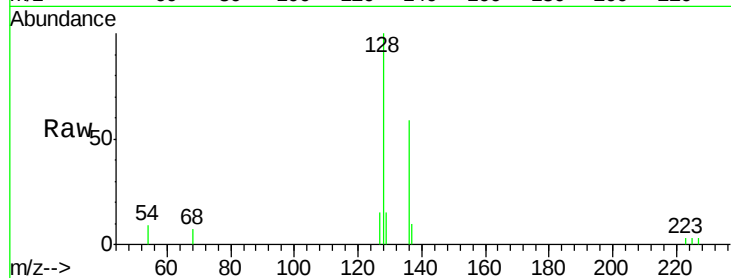
#9
Naphthalene
Concen: 0.40 ng
RT: 10.99 min Scan# 710
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
128	100		
129	14.7	11.2	16.8
127	14.5	11.6	17.4

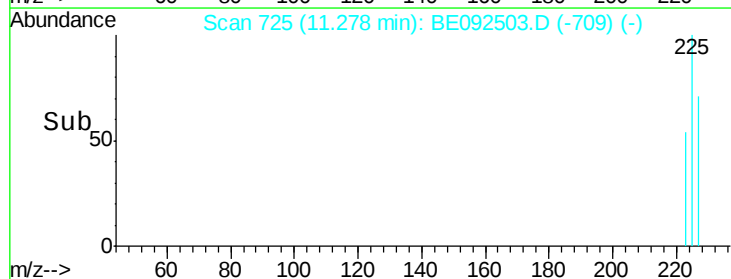
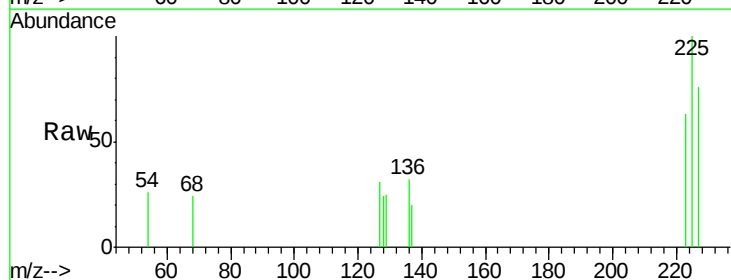
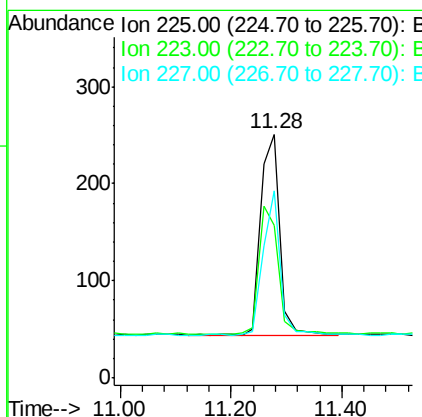
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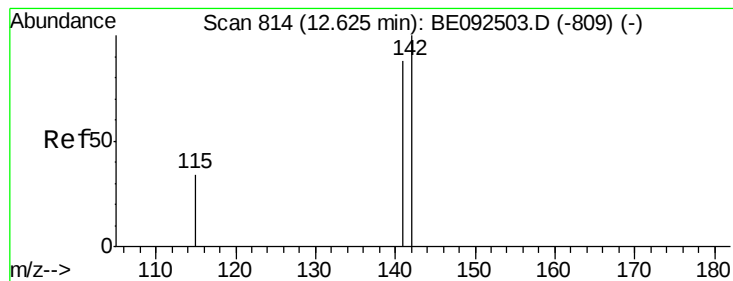
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#10
Hexachlorobutadiene
Concen: 0.41 ng
RT: 11.28 min Scan# 725
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.4	50.6	76.0
227	65.1	51.4	77.0





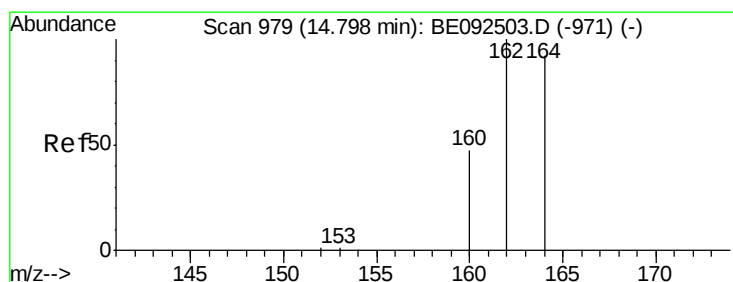
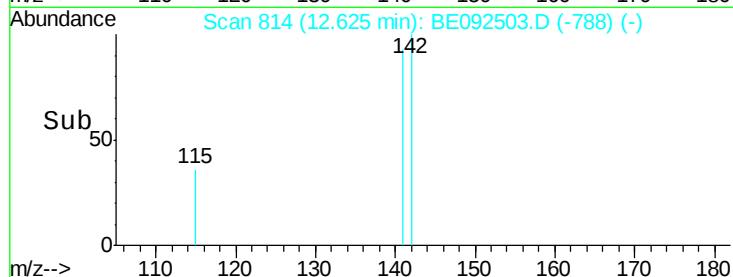
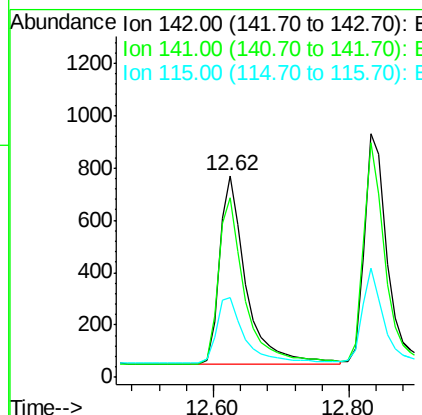
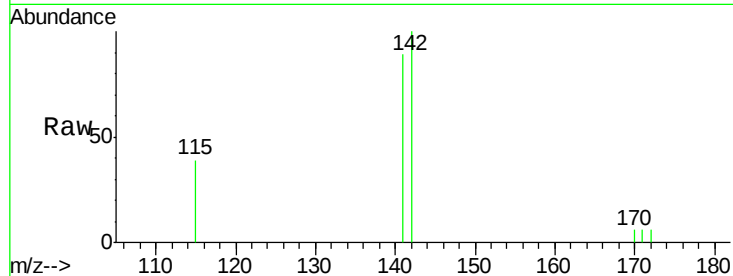
#11
2-Methylnaphthalene
Concen: 0.39 ng
RT: 12.62 min Scan# 814
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion:142 Resp: 1980
Ion Ratio Lower Upper
142 100
141 89.0 73.7 110.5
115 39.4 34.0 51.0

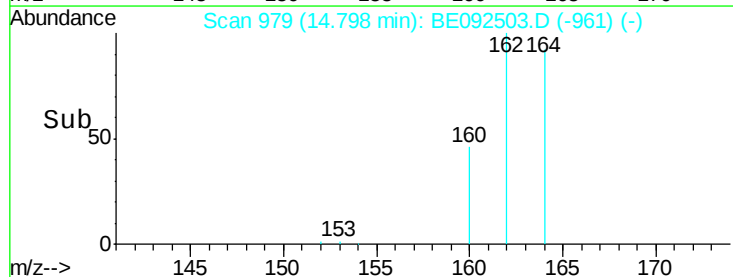
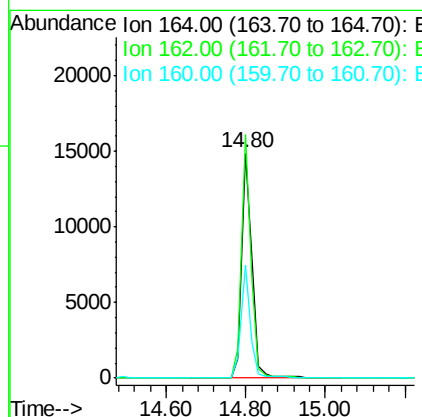
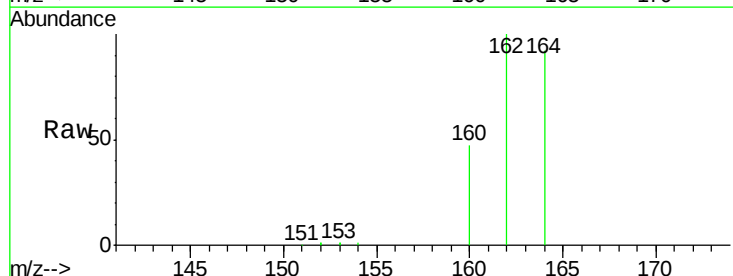
Manual Integrations
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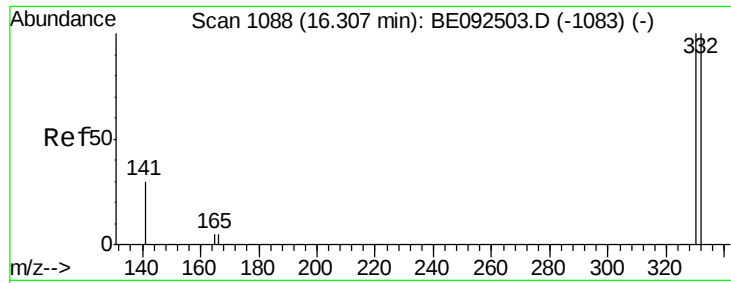
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.80 min Scan# 979
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion:164 Resp: 25822
Ion Ratio Lower Upper
164 100
162 108.4 71.4 107.0#
160 50.6 27.4 41.2#





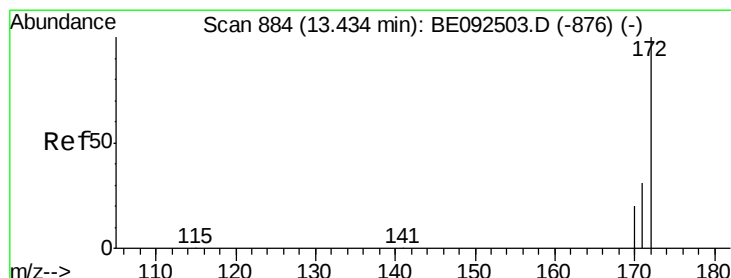
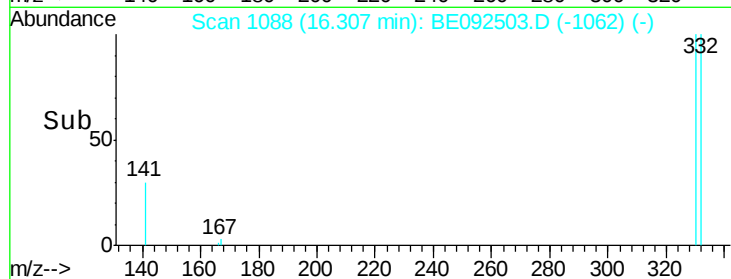
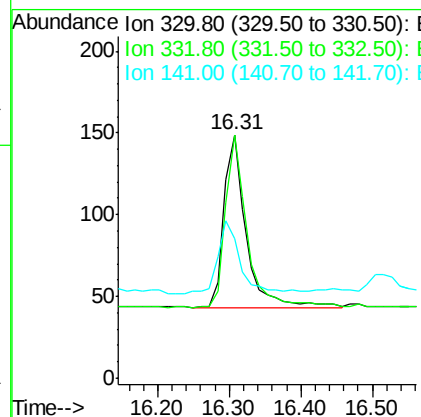
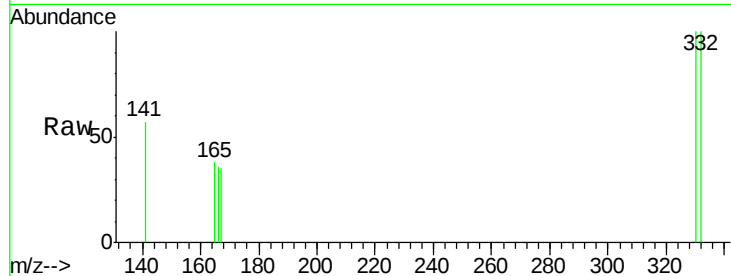
#13
 2,4,6-Tribromophenol
 Concen: 0.45 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: BE092503.D
 Acq: 8 Nov 2016 11:30

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.7	75.4	113.0
141	40.6	31.0	46.6

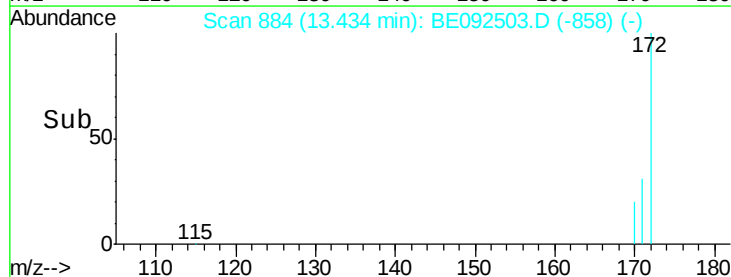
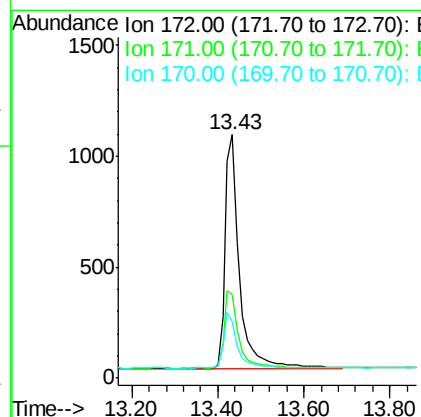
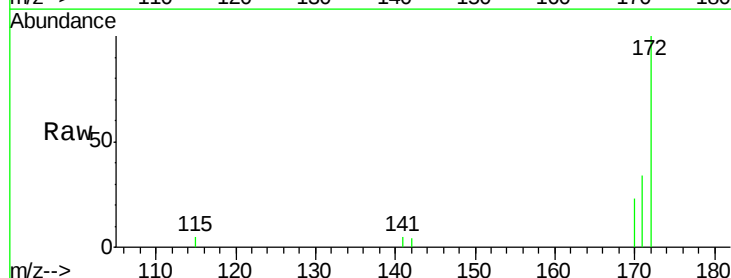
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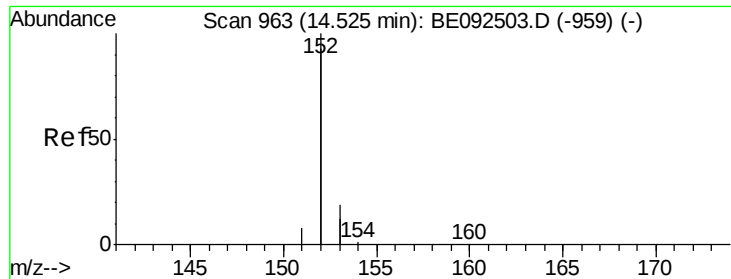
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#14
 2-Fluorobiphenyl
 Concen: 0.39 ng
 RT: 13.43 min Scan# 884
 Delta R.T. 0.00 min
 Lab File: BE092503.D
 Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	30.1	45.1
170	23.1	21.8	32.6





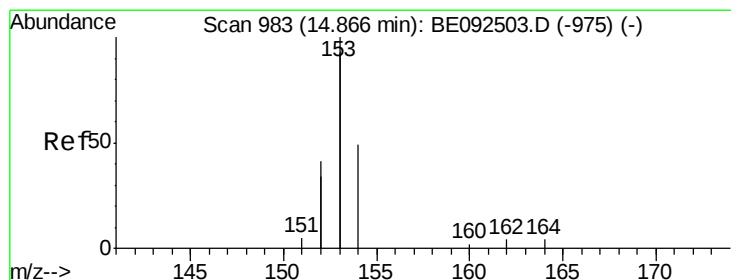
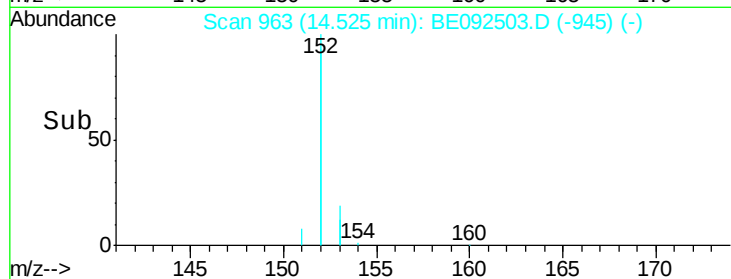
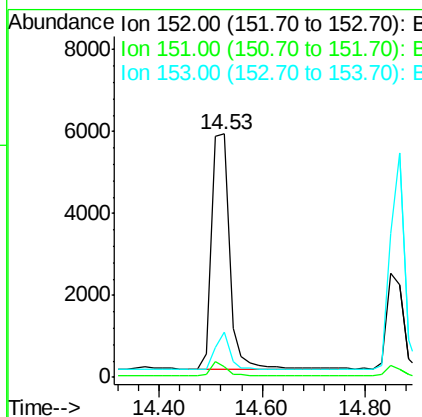
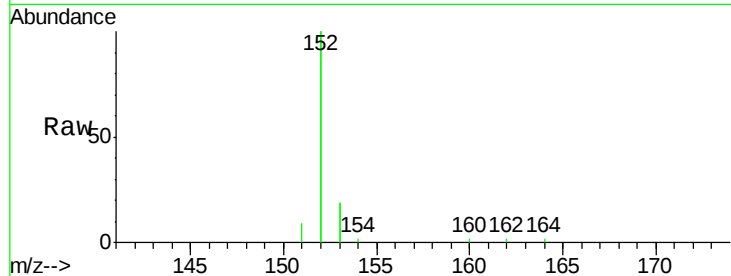
#15
Acenaphthylene
Concen: 0.38 ng
RT: 14.53 min Scan# 963
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
152	100		
151	5.0	3.9	5.9
153	12.8	10.4	15.6

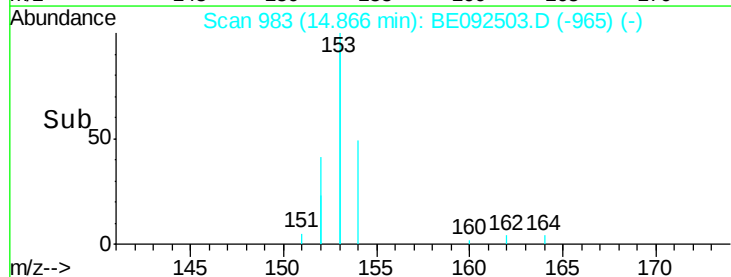
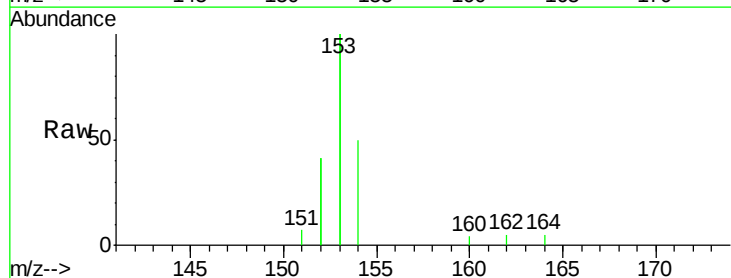
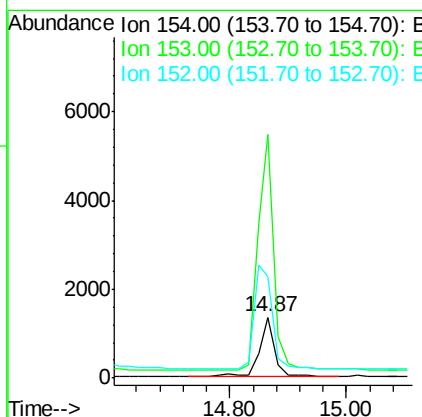
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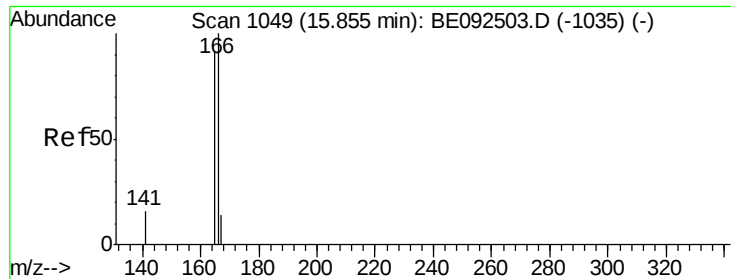
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#16
Acenaphthene
Concen: 0.39 ng
RT: 14.87 min Scan# 983
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
154	100		
153	429.3	350.8	526.2
152	220.7	171.1	256.7





#17

Fluorene

Concen: 0.41 ng

RT: 15.86 min Scan# 1049

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Instrument :

BNA_E

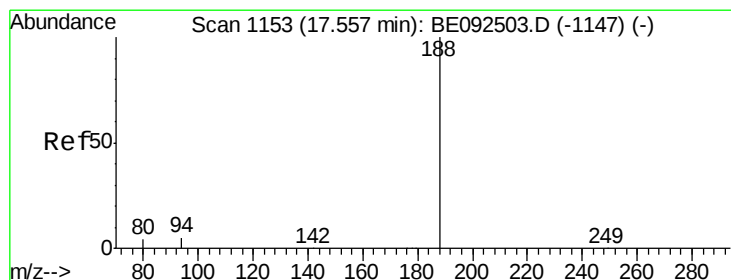
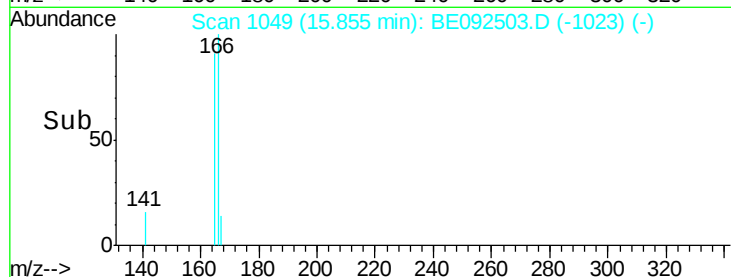
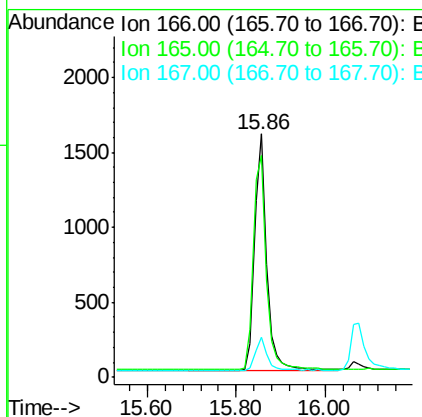
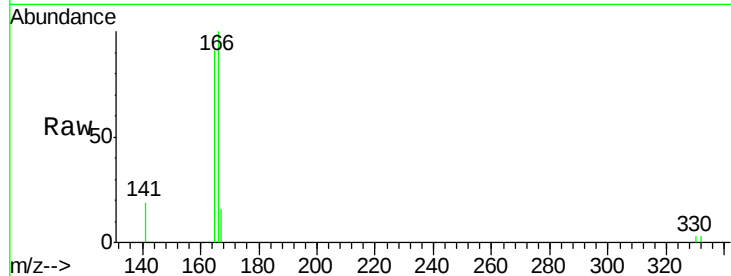
ClientSampleId :

SSTDICCC0.4

Tot Ion:	166	Resp:	2857
Ion Ratio	Lower	Upper	
166	100		
165	98.1	78.2	117.4
167	13.4	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

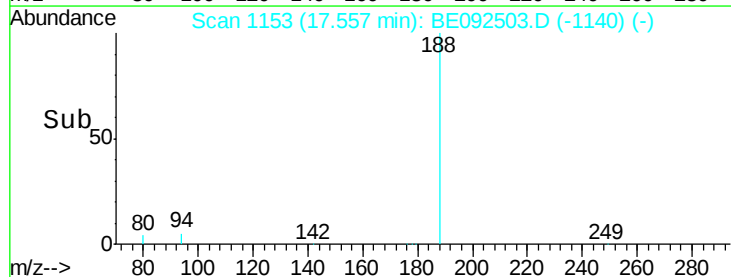
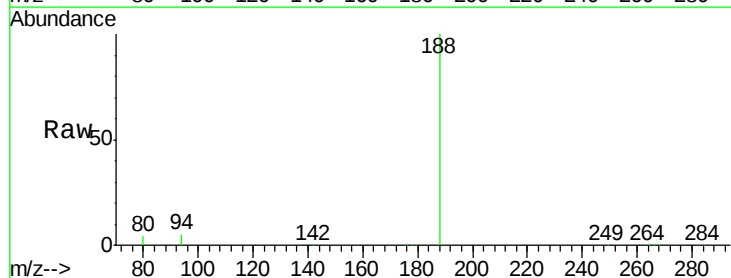
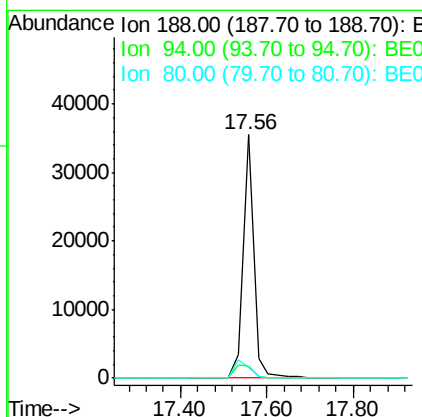
RT: 17.56 min Scan# 1153

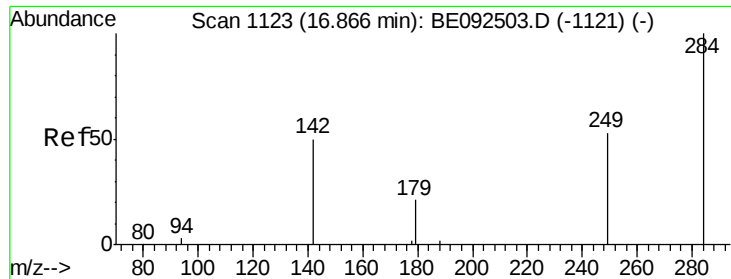
Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Tgt Ion:	188	Resp:	59686
Ion Ratio	Lower	Upper	
188	100		
94	5.0	3.2	4.8#
80	4.3	2.6	3.8#





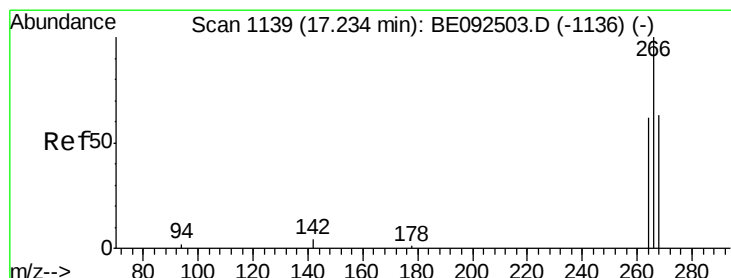
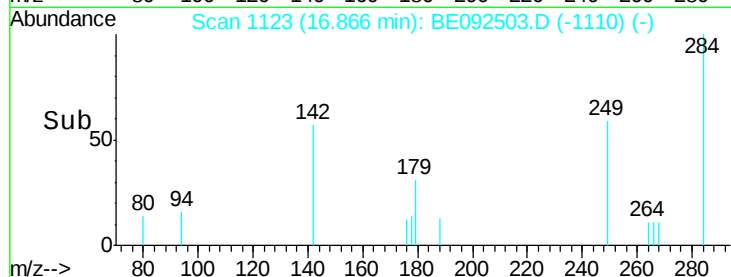
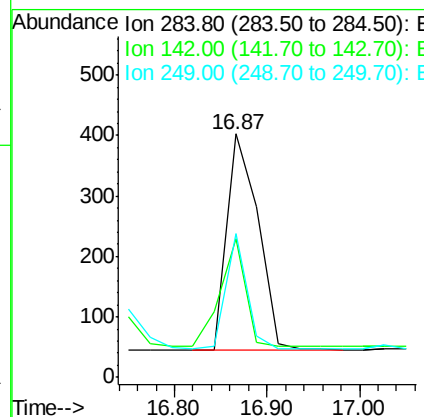
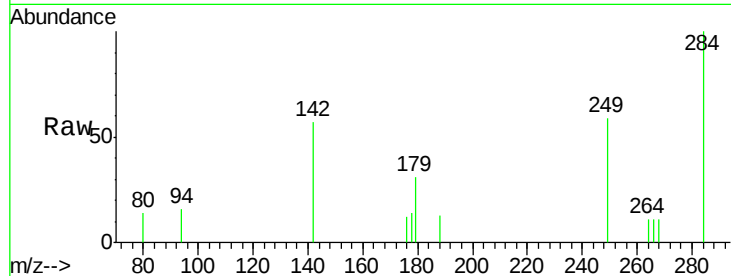
#19
Hexachlorobenzene
Concen: 0.32 ng
RT: 16.87 min Scan# 1123
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
284	100		
142	50.9	29.1	43.7#
249	48.3	27.9	41.9#

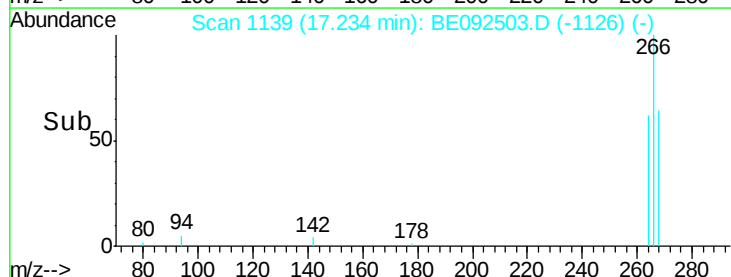
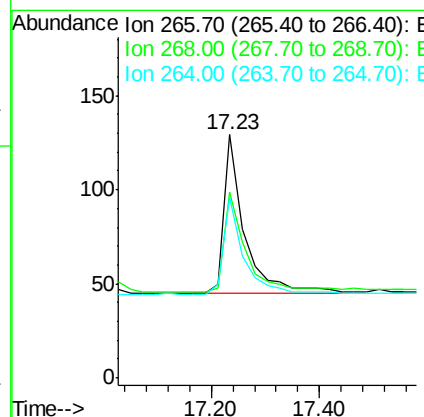
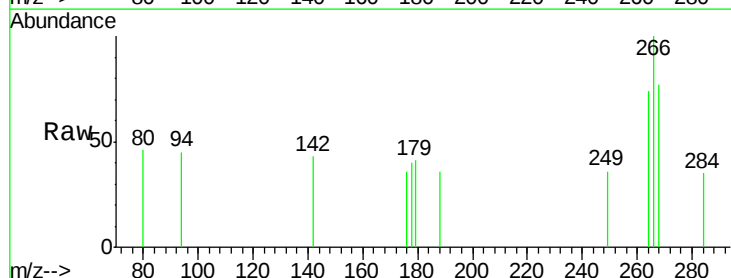
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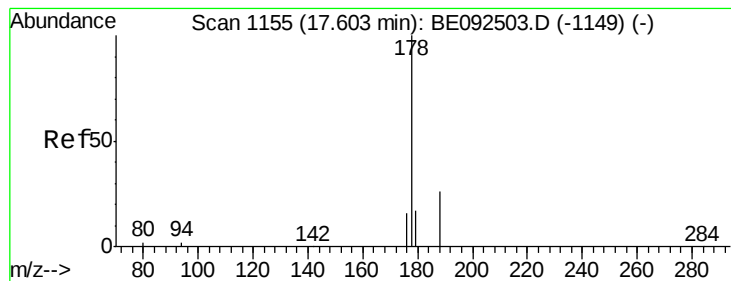
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#20
Pentachlorophenol
Concen: 0.48 ng
RT: 17.23 min Scan# 1139
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
266	100		
268	76.7	62.5	93.7
264	74.4	57.2	85.8





#21

Phenanthrene

Concen: 0.33 ng

RT: 17.60 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Instrument :

BNA_E

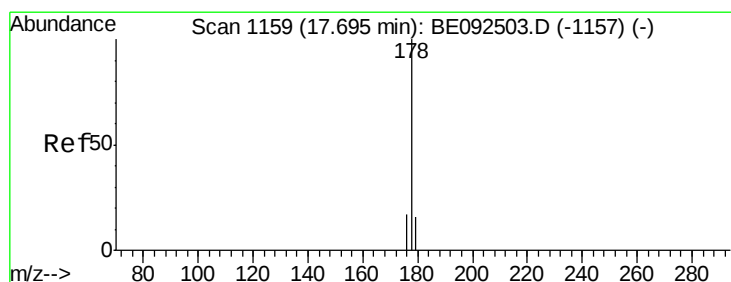
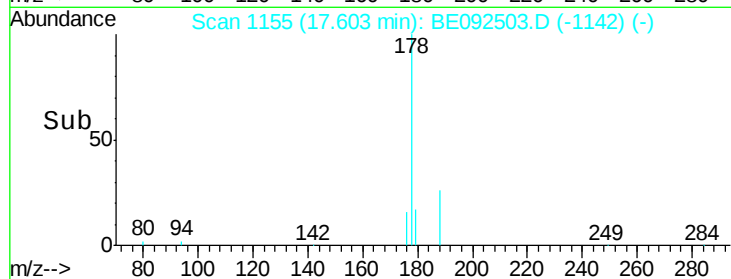
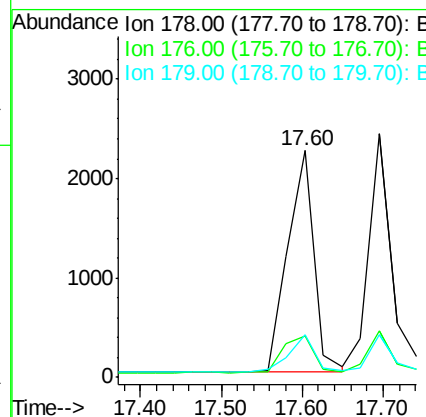
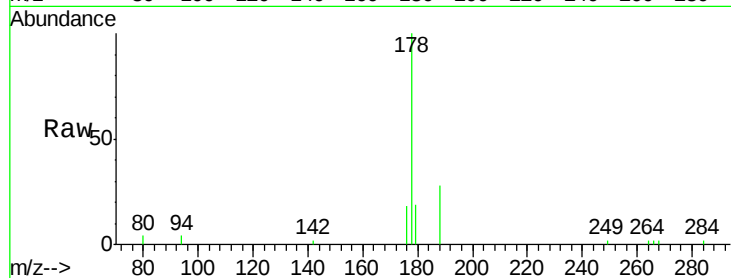
ClientSampleId :

SSTDICCC0.4

Tot Ion:178	Resp:	5040
Ion Ratio	Lower	Upper
178	100	
176	19.1	15.8 23.8
179	16.3	16.0 24.0

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#22

Anthracene

Concen: 0.35 ng

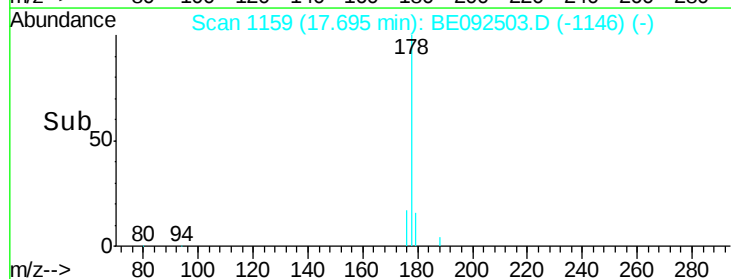
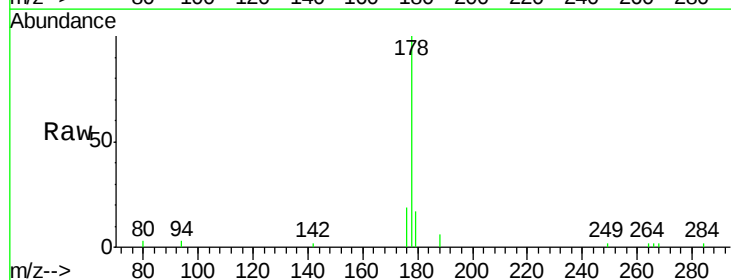
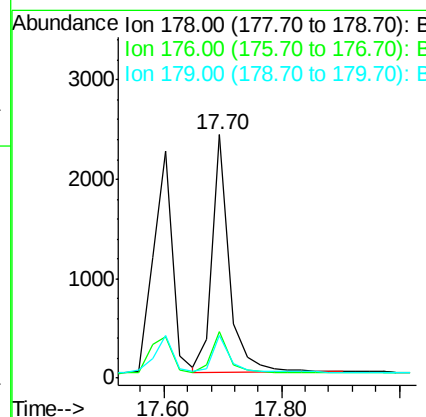
RT: 17.70 min Scan# 1159

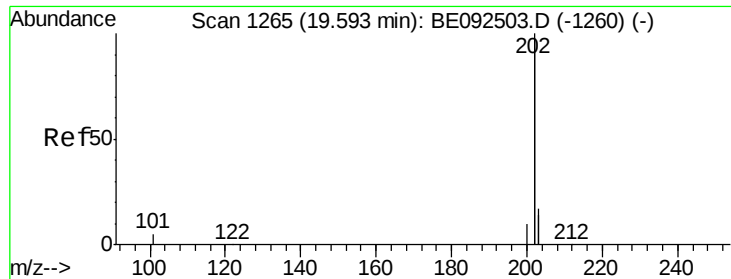
Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Tgt Ion:178	Resp:	4850
Ion Ratio	Lower	Upper
178	100	
176	18.4	15.0 22.4
179	16.5	12.2 18.2





#23

Fluoranthene

Concen: 0.41 ng

RT: 19.59 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Instrument :

BNA_E

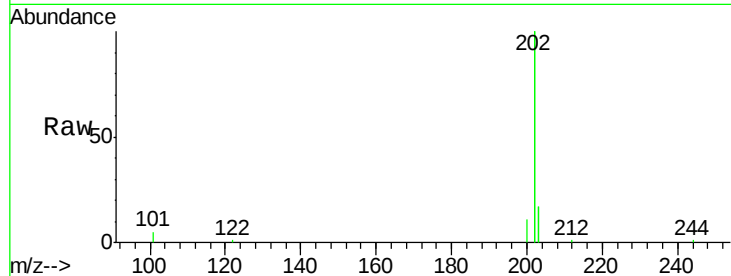
ClientSampleId :

SSTDICCC0.4

Tot Ion	Ratio	Resp	Lower	Upper
202	100	25338		
101	2.7		2.2	3.4
203	17.6		13.7	20.5

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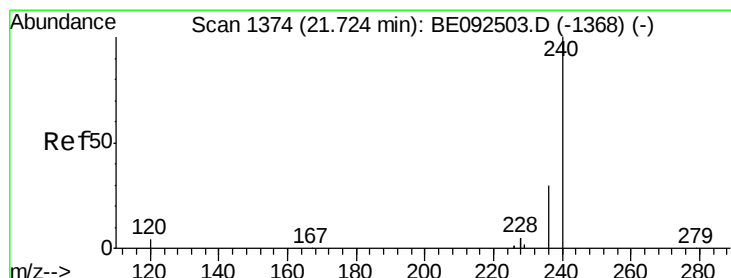
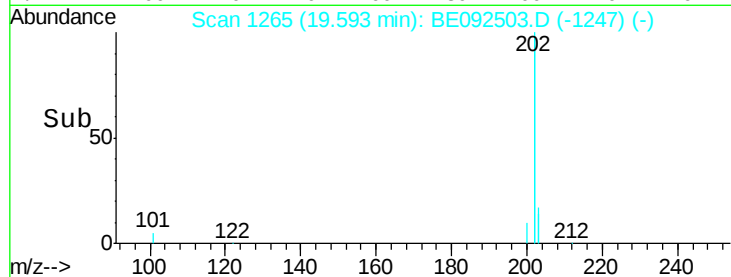
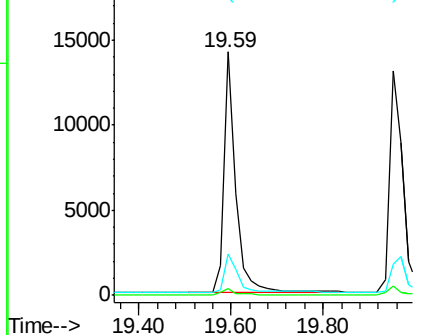


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

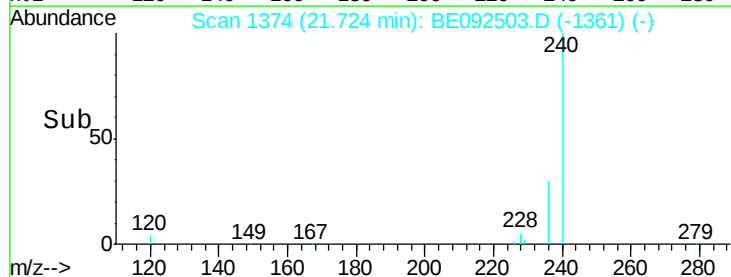
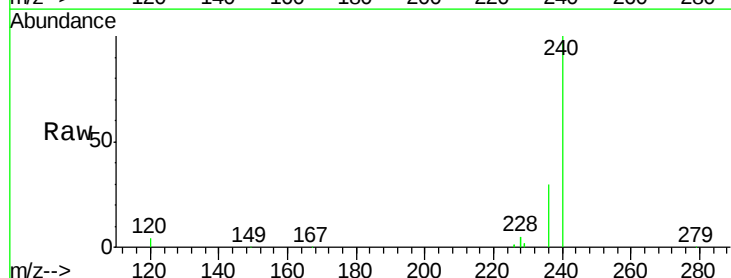
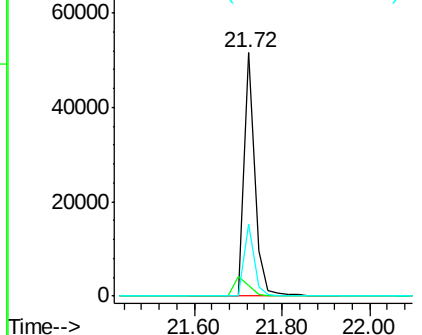
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	86948		
120	4.4		2.6	4.0#
236	29.8		24.6	37.0

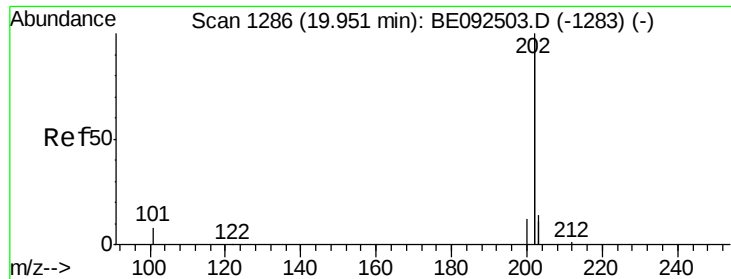
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





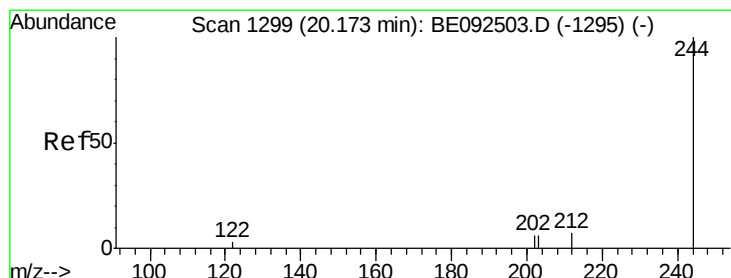
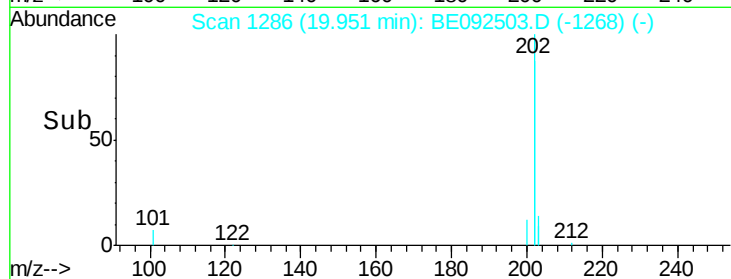
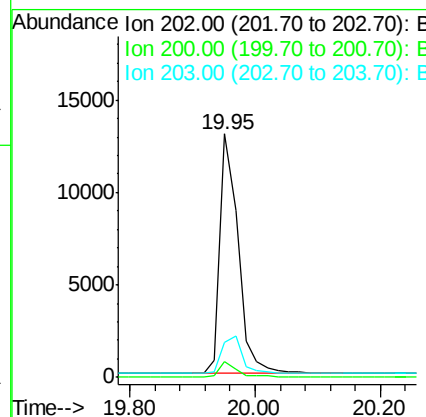
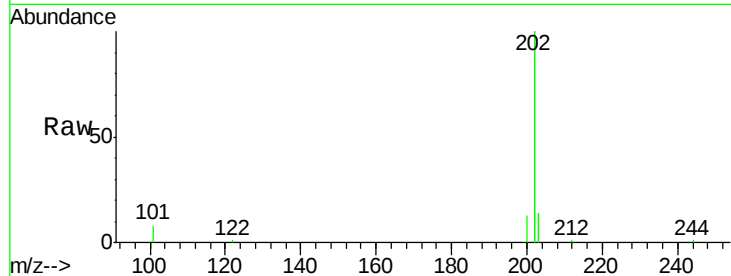
#25
Pvrene
Concen: 0.35 ng
RT: 19.95 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.4	4.2	6.4
203	17.4	13.9	20.9

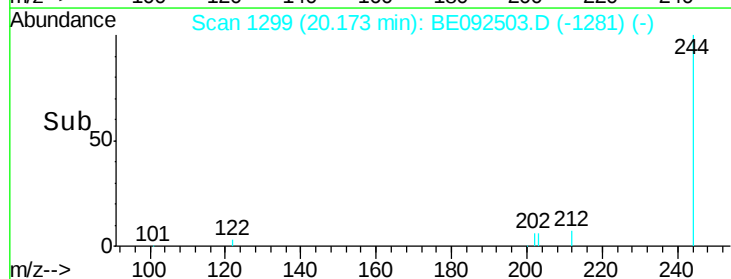
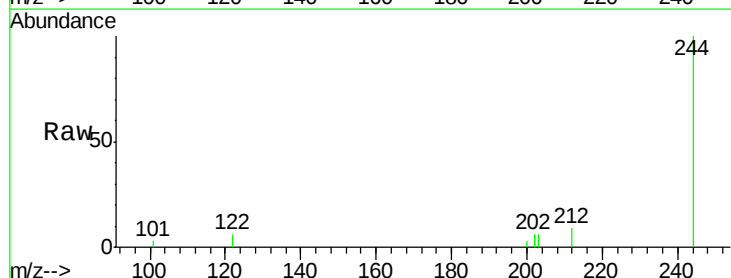
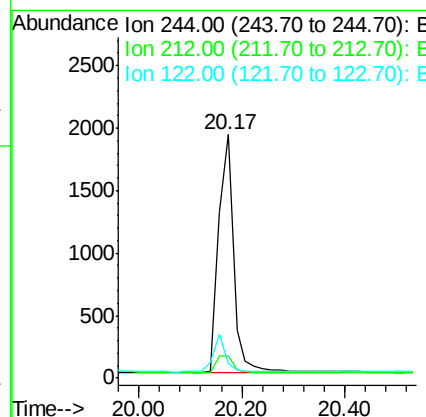
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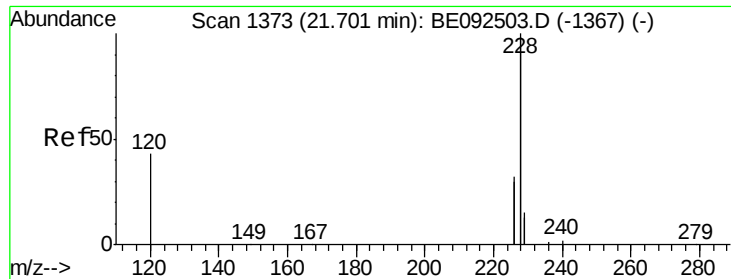
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#26
Terphenyl-d14
Concen: 0.36 ng
RT: 20.17 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.2	6.7	10.1
122	5.8	3.6	5.4





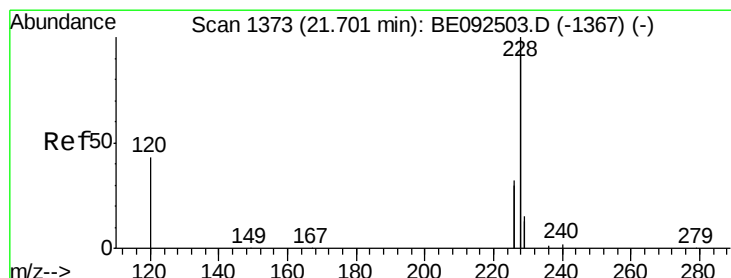
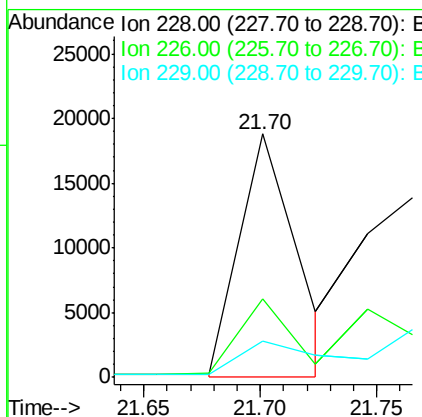
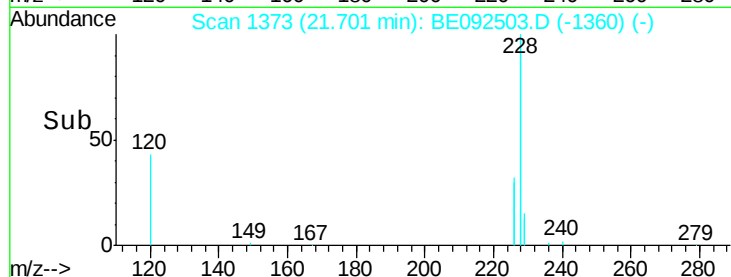
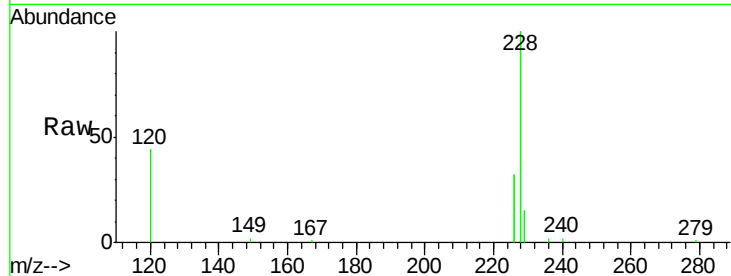
#27
Benzo(a)anthracene
Concen: 0.40 ng m
RT: 21.70 min Scan# 1373
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.4	23.6	35.4
229	14.9	13.3	19.9

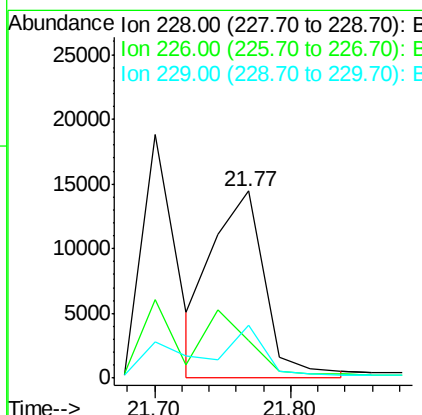
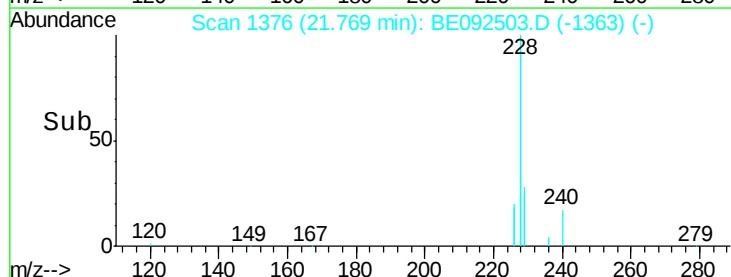
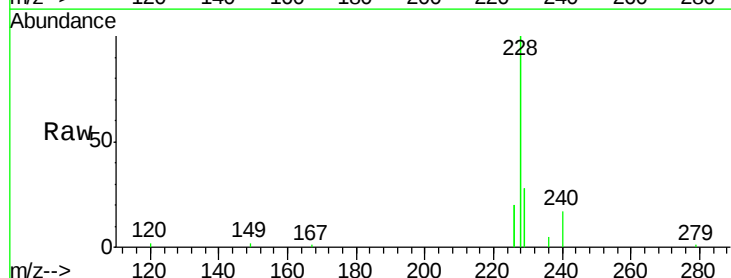
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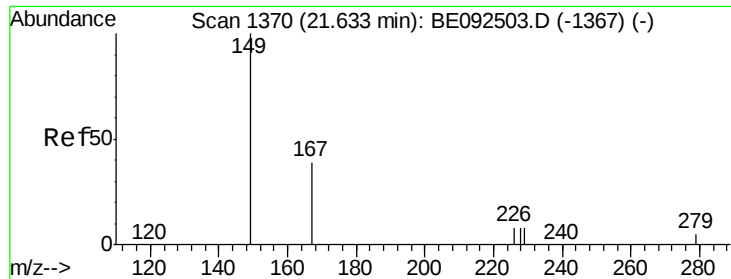
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#28
Chrysene
Concen: 0.46 ng m
RT: 21.77 min Scan# 1376
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	20.3	36.3	54.5#
229	28.3	10.6	16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.49 ng

RT: 21.63 min Scan# 1370

Delta R.T. 0.00 min

Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Instrument :

BNA_E

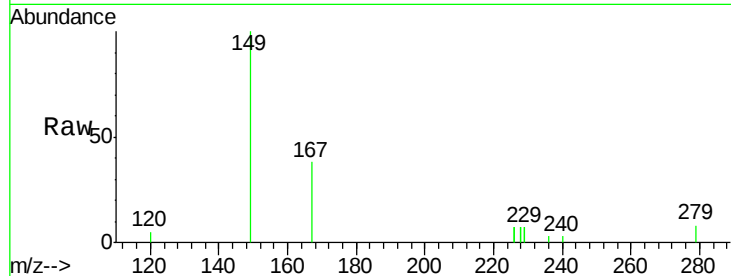
ClientSampleId :

SSTDICCC0.4

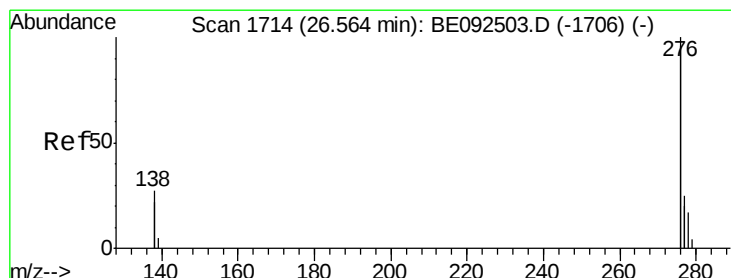
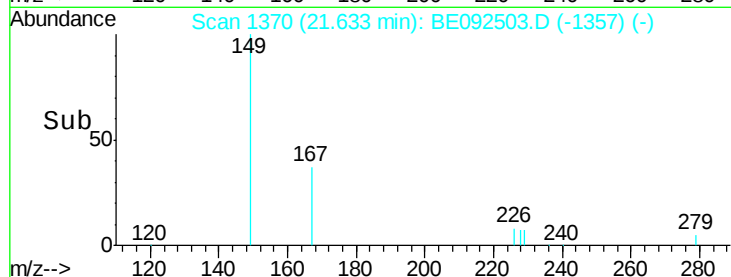
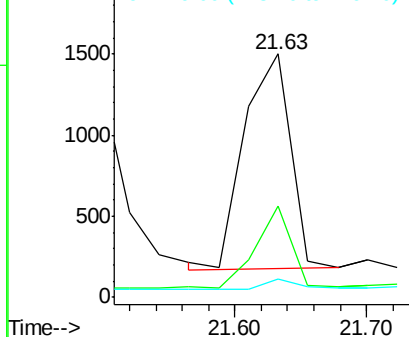
Tot Ion	Ratio	Lower	Upper
149	100		
167	29.4	16.0	24.0#
279	3.6	16.0	24.0#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.52 ng

RT: 26.56 min Scan# 1714

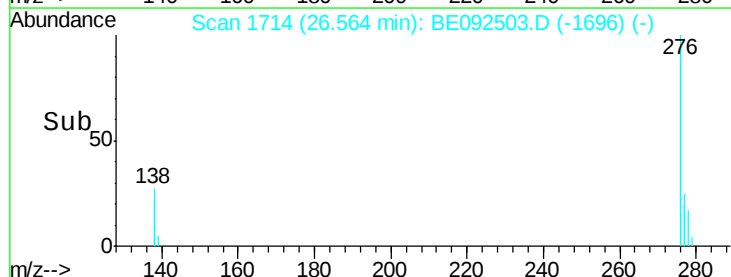
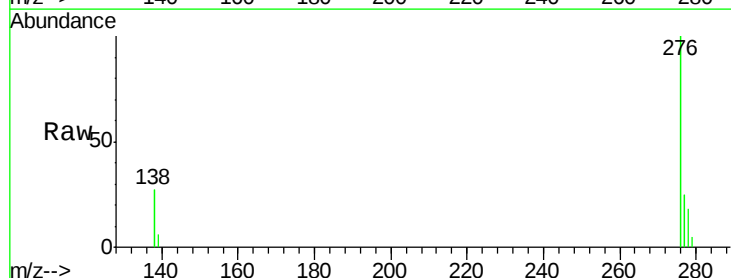
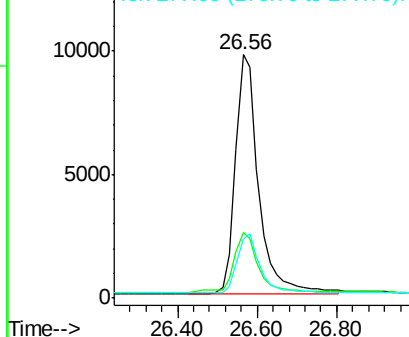
Delta R.T. 0.00 min

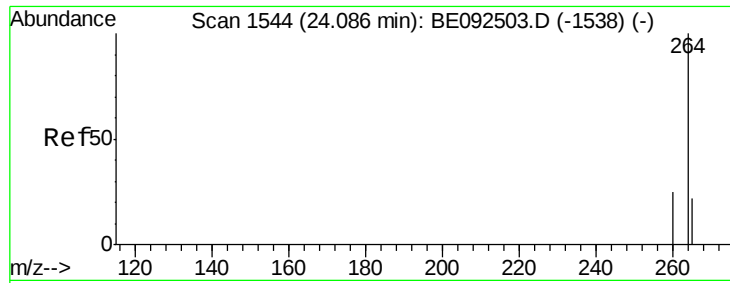
Lab File: BE092503.D

Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.7	20.3	30.5
277	24.7	19.7	29.5

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





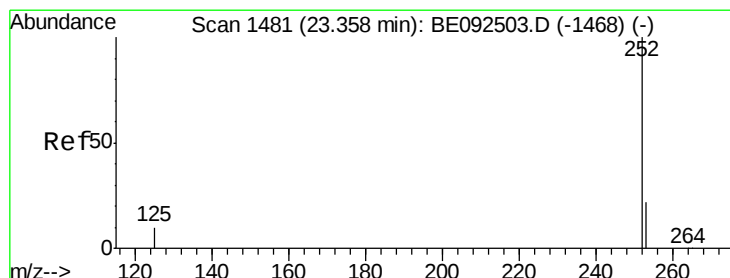
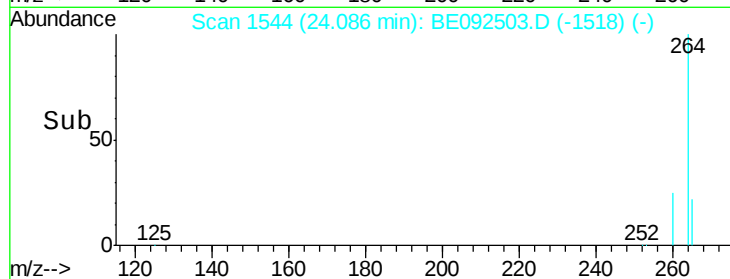
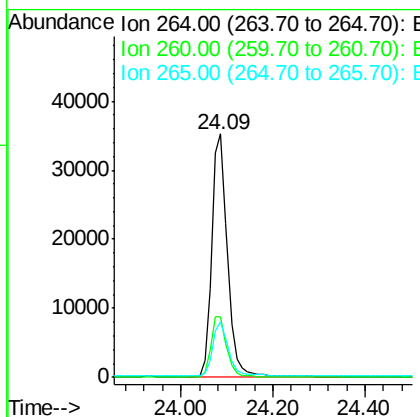
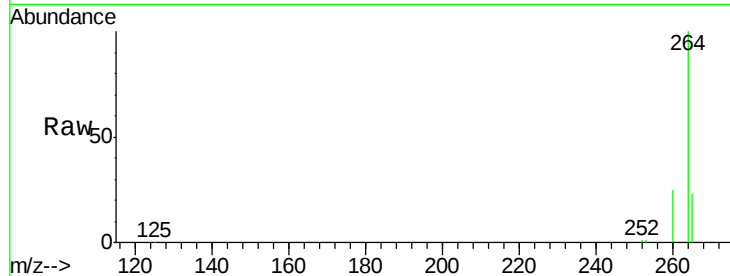
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.09 min Scan# 1544
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	20.1	30.1
265	22.9	17.9	26.9

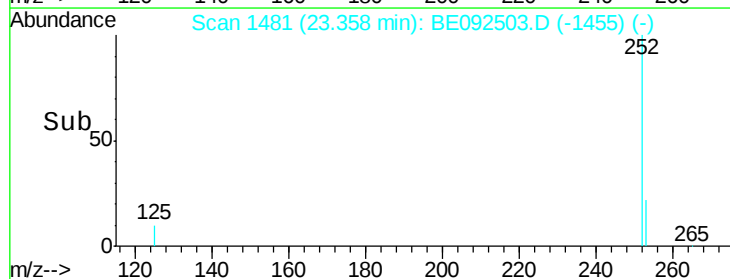
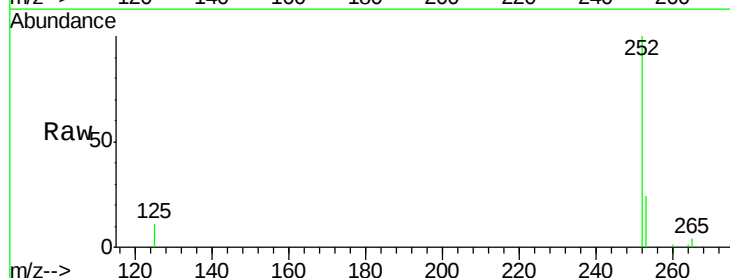
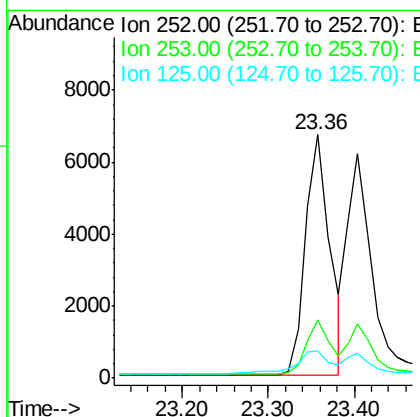
Manual Integrations
APPROVED

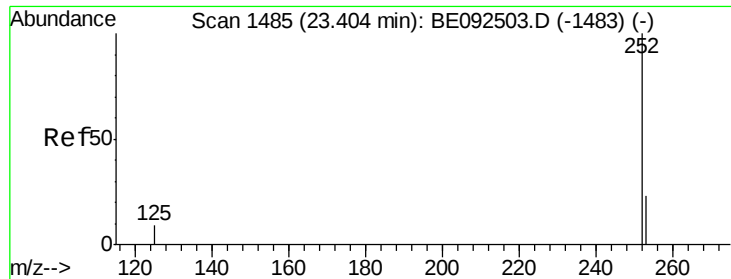
umangi
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#32
Benzo(b)fluoranthene
Concen: 0.63 ng
RT: 23.36 min Scan# 1481
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.7	28.1
125	11.4	10.5	15.7





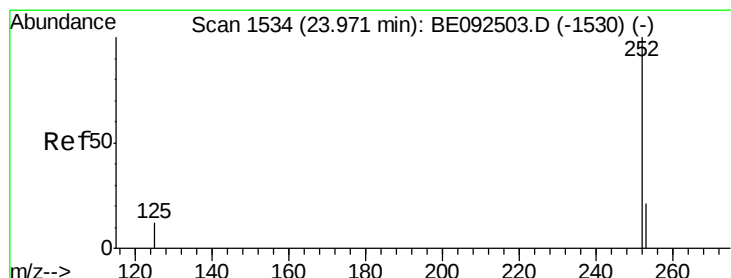
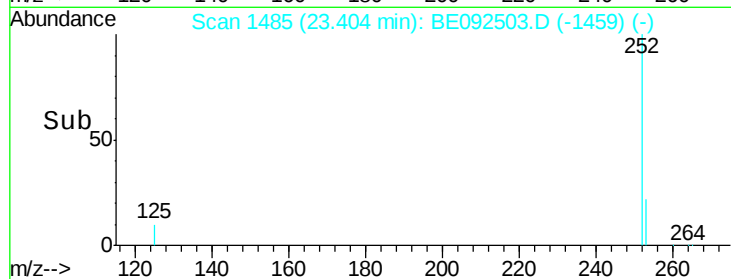
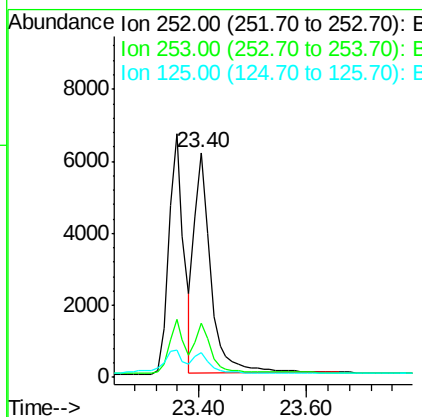
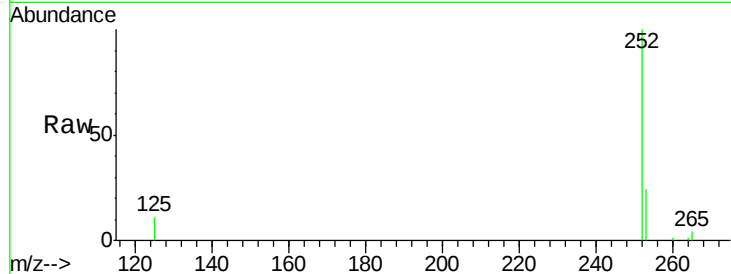
#33
Benzo(k)fluoranthene
Concen: 0.63 ng
RT: 23.40 min Scan# 1485
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	20.3	30.5
125	11.2	9.6	14.4

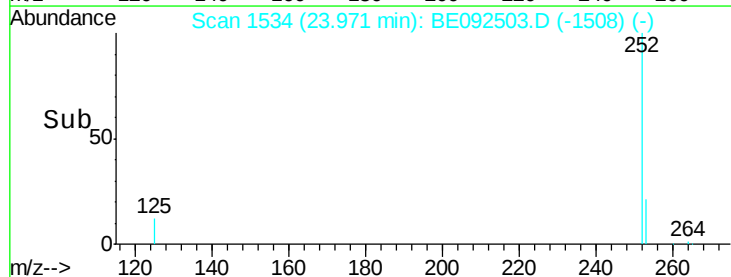
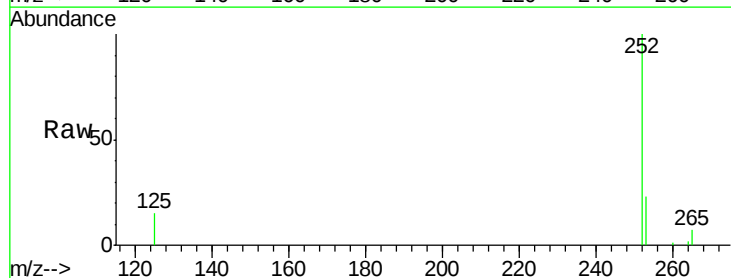
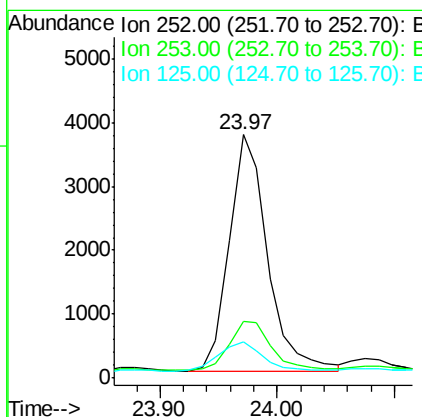
Manual Integrations
APPROVED

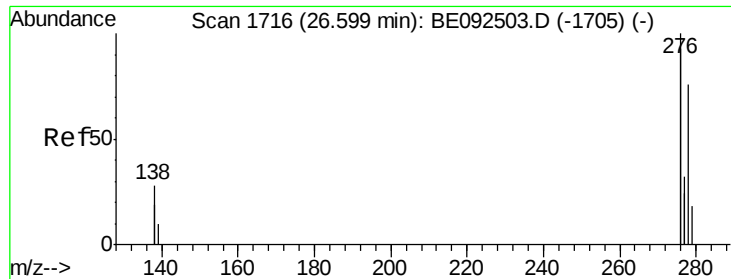
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#34
Benzo(a)pyrene
Concen: 0.44 ng
RT: 23.97 min Scan# 1534
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.0	28.6
125	14.8	11.8	17.8





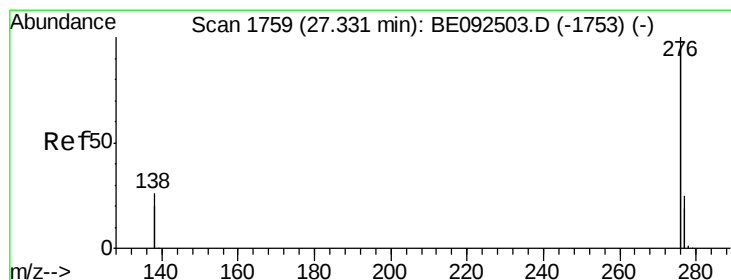
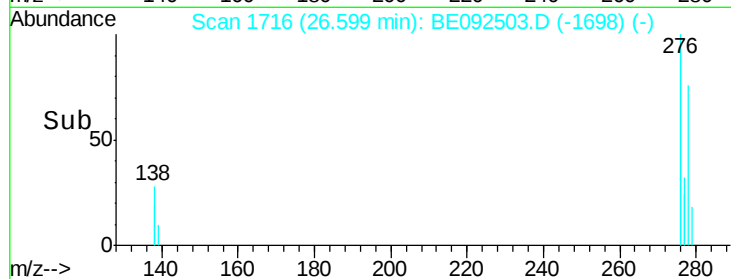
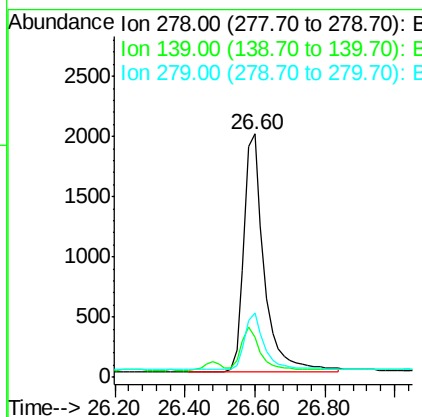
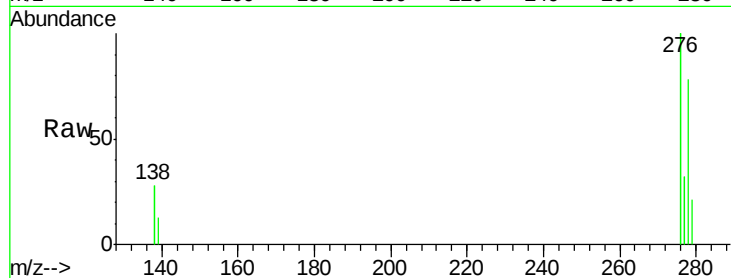
#35
Dibenzo(a,h)anthracene
Concen: 0.45 ng
RT: 26.60 min Scan# 1716
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.3	13.8	20.8
279	26.4	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 0.43 ng
RT: 27.33 min Scan# 1759
Delta R.T. 0.00 min
Lab File: BE092503.D
Acq: 8 Nov 2016 11:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.8	29.8
138	26.1	19.8	29.6

