

Data Path : Z:\HPCHEM1\BNA E\DATA\BE011617\
 Data File : BE092649.D
 Acq On : 16 Jan 2017 13:17
 Operator : UM/SJ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

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Quant Time: Jan 16 16:10:49 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 16 15:00:30 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	11932	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	56677	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	37103	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	81117	5.00	ng	0.00
24) Chrysene-d12	21.72	240	86920	5.00	ng	0.00
31) Perylene-d12	24.06	264	98450	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	459	0.25	ng	0.00
5) Phenol-d6	7.34	99	572	0.22	ng	0.00
8) Nitrobenzene-d5	9.34	82	630m	0.20	ng	0.00
13) 2,4,6-Tribromophenol	16.30	330	150	0.18	ng	0.00
14) 2-Fluorobiphenyl	13.42	172	1638	0.18	ng	0.00
26) Terphenyl-d14	20.16	244	2144	0.20	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	438	0.25	ng	# 84
3) n-Nitrosodimethylamine	3.76	42	361	0.25	ng	# 94
6) bis(2-Chloroethyl)ether	7.57	93	639	0.24	ng	# 81
9) Naphthalene	10.97	128	2172	0.19	ng	94
10) Hexachlorobutadiene	11.26	225	318	0.18	ng	100
11) 2-Methylnaphthalene	12.62	142	1273	0.17	ng	97
15) Acenaphthylene	14.51	152	8744	0.17	ng	99
16) Acenaphthene	14.85	154	1601	0.19	ng	93
17) Fluorene	15.84	166	1829	0.18	ng	100
19) Hexachlorobenzene	16.87	284	618m	0.18	ng	
20) Pentachlorophenol	17.23	266	142	0.24	ng	91
21) Phenanthrene	17.58	178	3395	0.17	ng	97
22) Anthracene	17.69	178	2833	0.15	ng	98
23) Fluoranthene	19.59	202	14199	0.16	ng	99
25) Pyrene	19.95	202	14847	0.19	ng	99
27) Benzo(a)anthracene	21.70	228	15517m	0.20	ng	
28) Chrysene	21.75	228	18614m	0.21	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	2502	0.30	ng	# 72
30) Indeno(1,2,3-cd)pyrene	26.57	276	18170	0.22	ng	99
32) Benzo(b)fluoranthene	23.35	252	4102	0.18	ng	94
33) Benzo(k)fluoranthene	23.39	252	4165	0.17	ng	98
34) Benzo(a)pyrene	23.96	252	3780	0.17	ng	94
35) Dibenzo(a,h)anthracene	26.58	278	3645	0.18	ng	# 93
36) Benzo(g,h,i)perylene	27.31	276	15979	0.18	ng	95

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

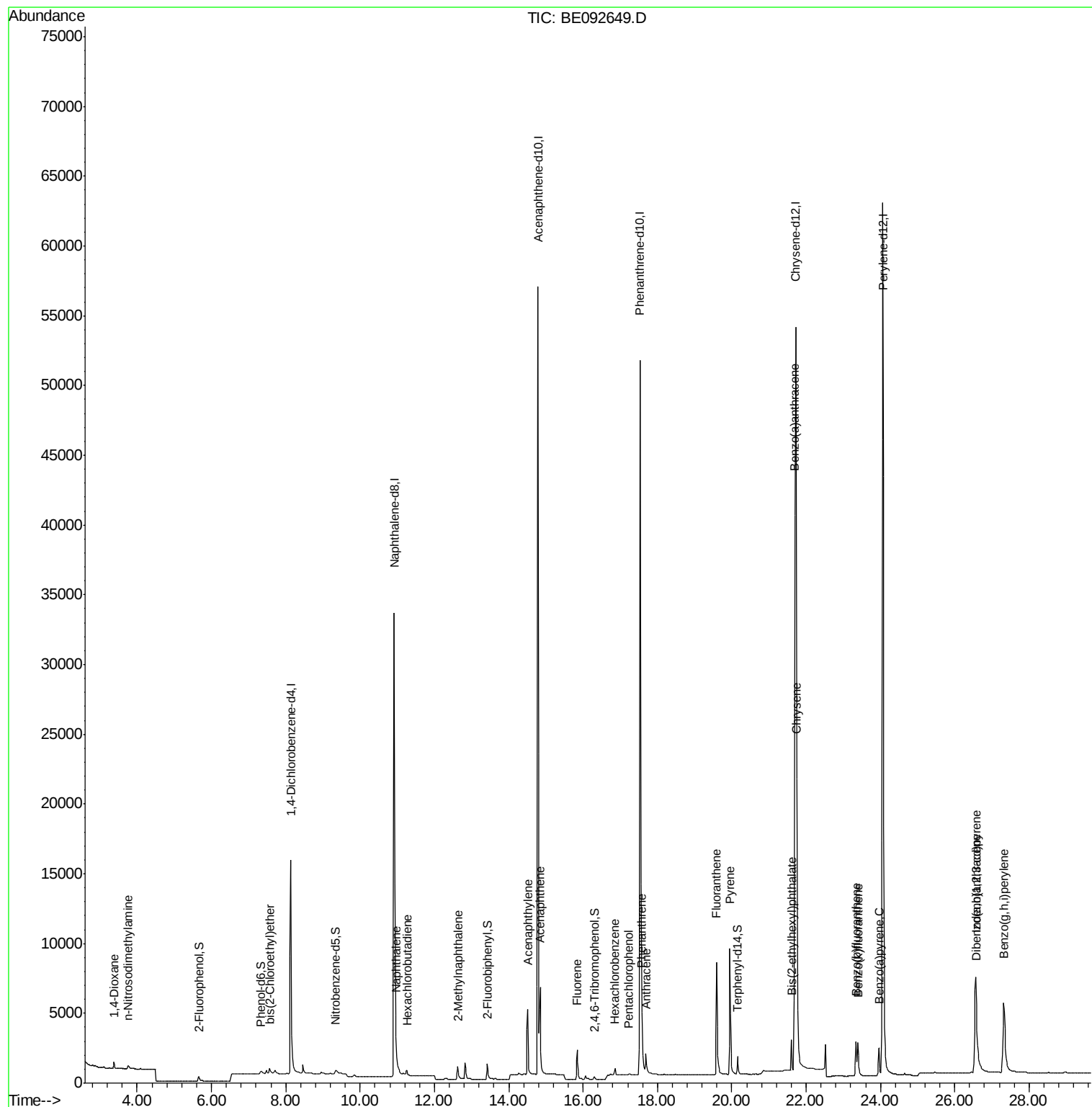
Data Path : Z:\HPCHEM1\BNA E\DATA\BE011617\
Data File : BE092649.D
Acq On : 16 Jan 2017 13:17
Operator : UM/SJ
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

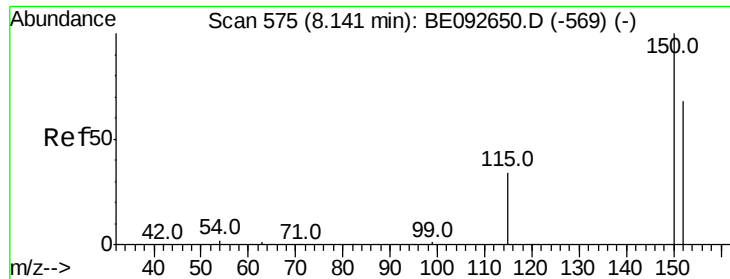
Instrument :
BNA_E
ClientSampleID :
SSTDICC0.2

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Quant Time: Jan 16 16:10:49 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011617.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 16 15:00:30 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

Tot Ion:152 Resp: 11932

Ion Ratio Lower Upper

152 100

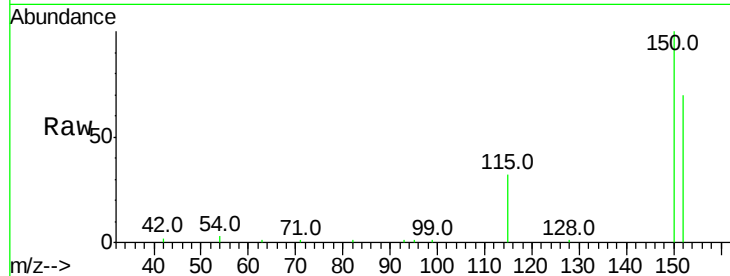
150 143.1 106.0 159.0

115 45.8 31.2 46.8

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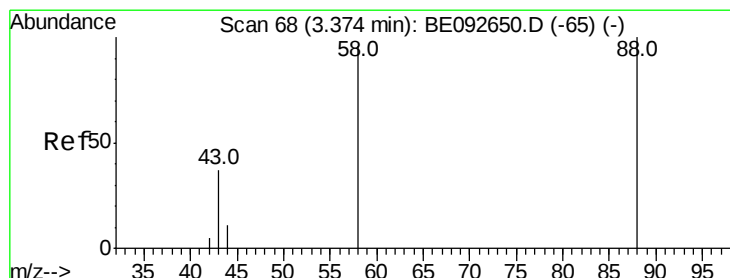
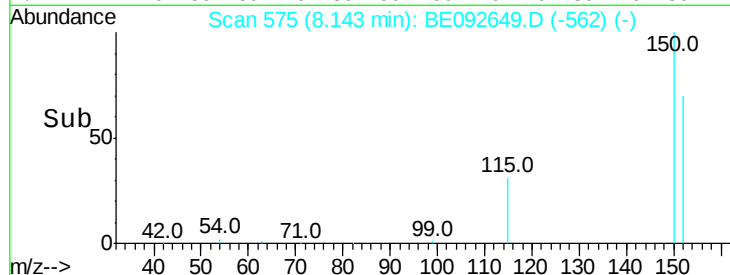
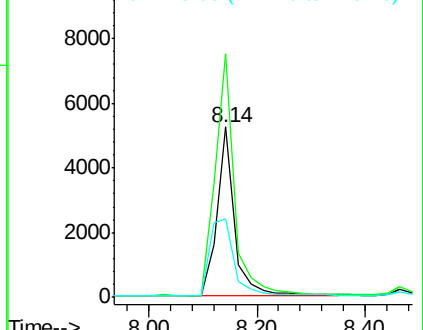
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.25 ng

RT: 3.37 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

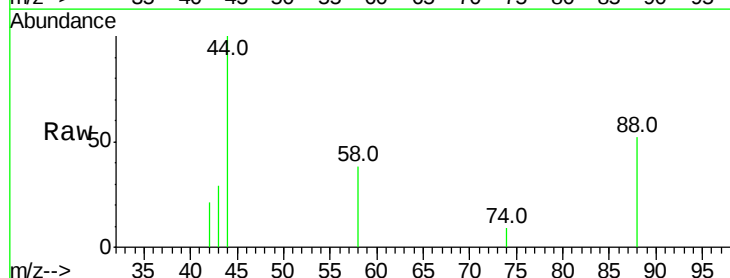
Tgt Ion: 88 Resp: 438

Ion Ratio Lower Upper

88 100

58 63.5 63.6 95.4#

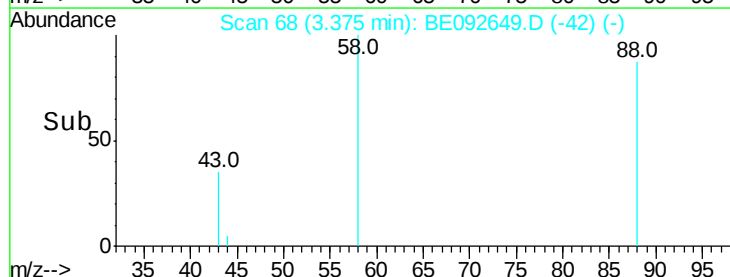
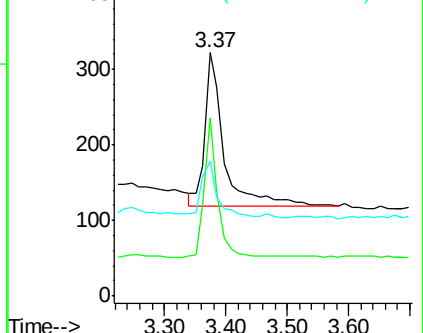
43 28.5 28.0 42.0

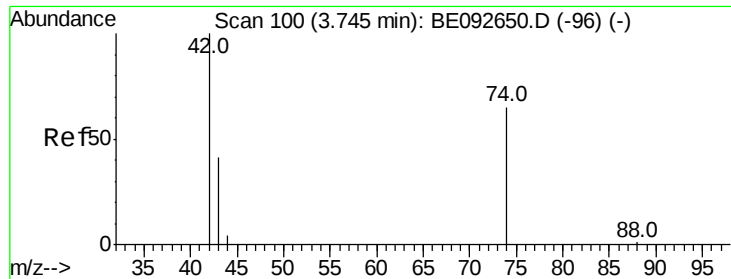


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

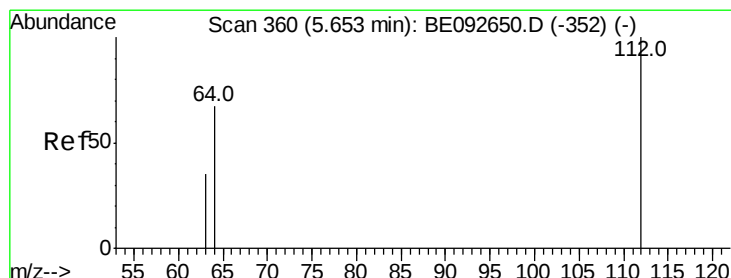
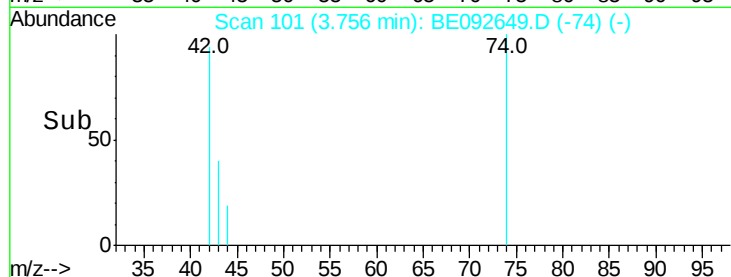
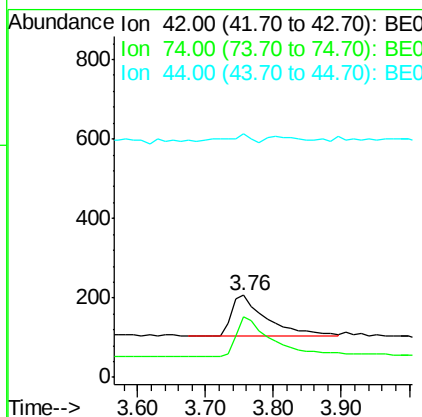
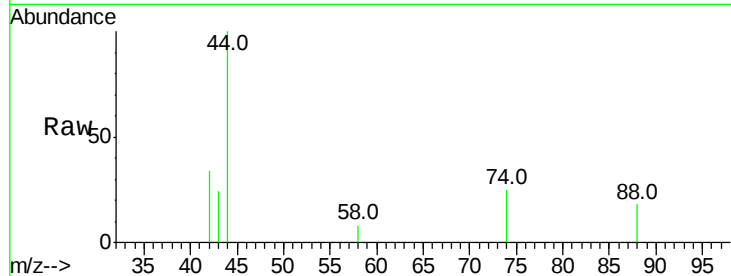
n-Nitrosodimethylamine
Concen: 0.25 ng
RT: 3.76 min Scan# 101
Delta R.T. 0.01 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
42	100		
74	112.5	86.0	129.0
44	12.7	5.1	7.7#

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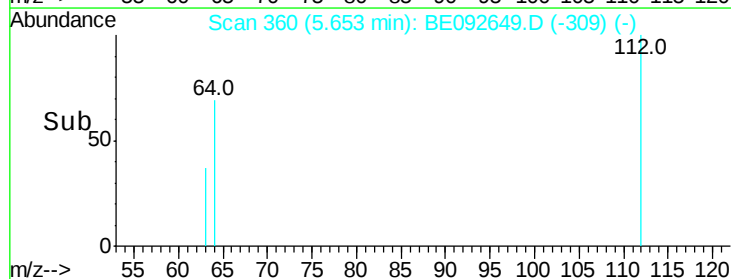
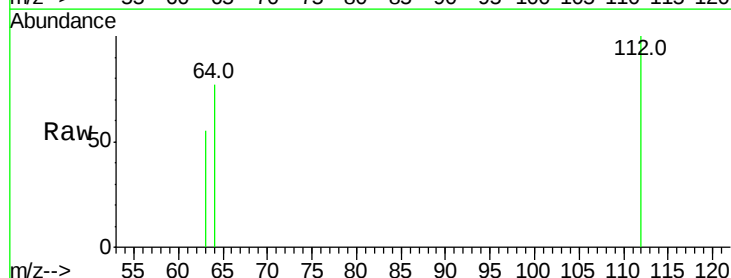
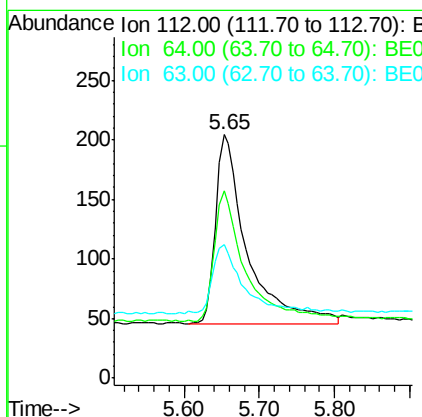
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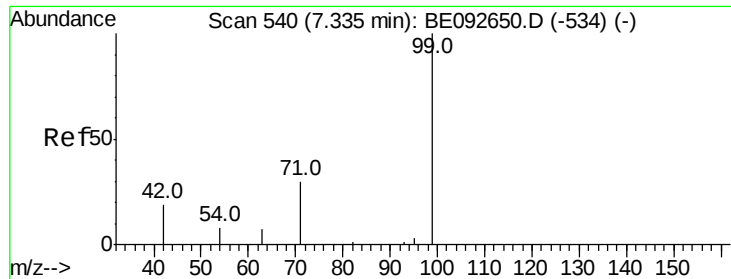


#4

2-Fluorophenol
Concen: 0.25 ng
RT: 5.65 min Scan# 360
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.7	53.5	80.3
63	36.2	27.9	41.9





#5

Phenol-d6

Concen: 0.22 ng

RT: 7.34 min Scan# 540

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

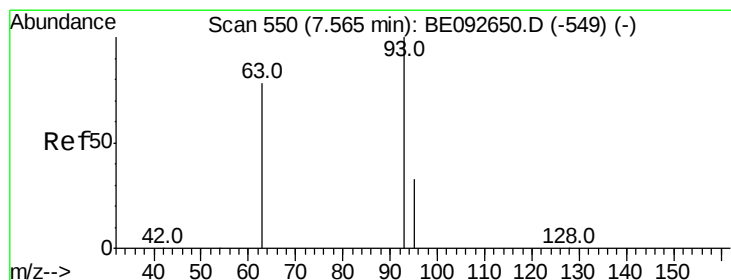
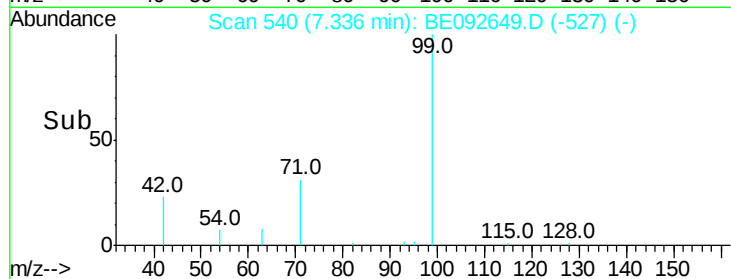
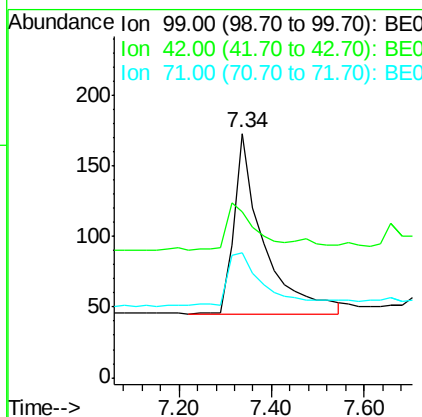
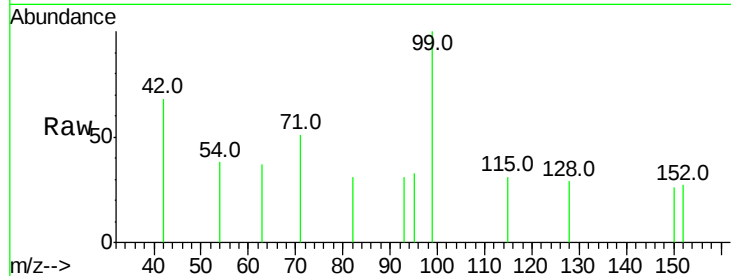
ClientSampled :

SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
99	100		
42	0.0	16.0	24.0#
71	38.6	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 0.24 ng

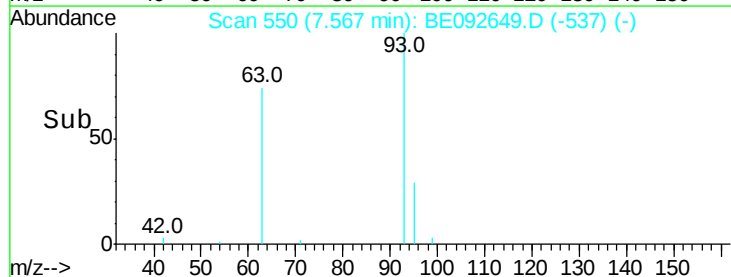
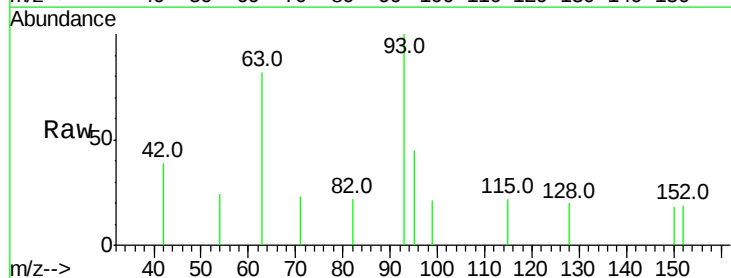
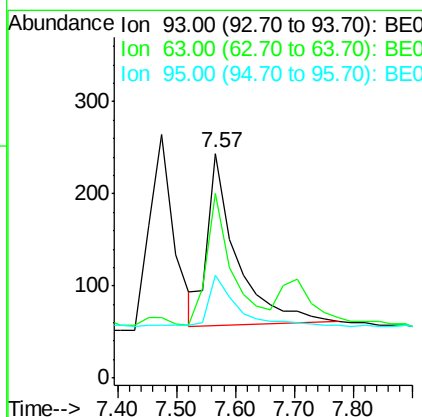
RT: 7.57 min Scan# 550

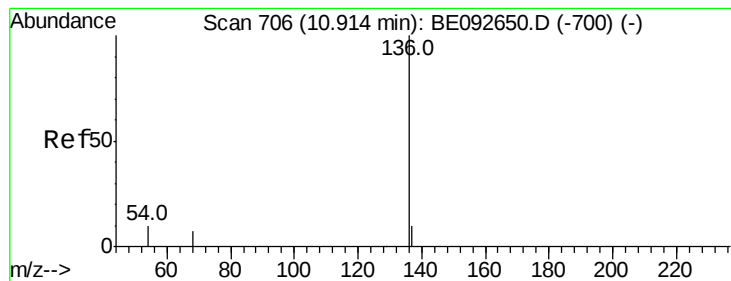
Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
93	100		
63	66.4	71.6	107.4#
95	29.9	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

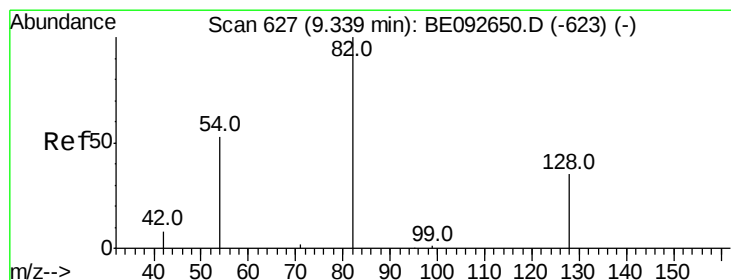
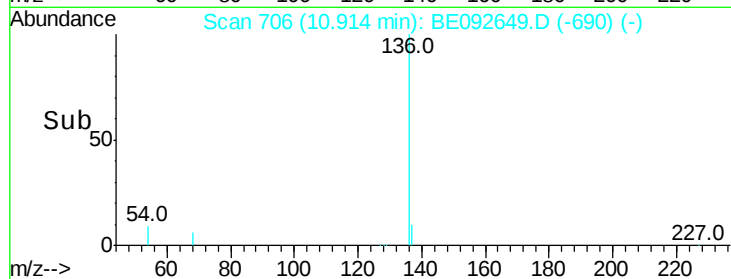
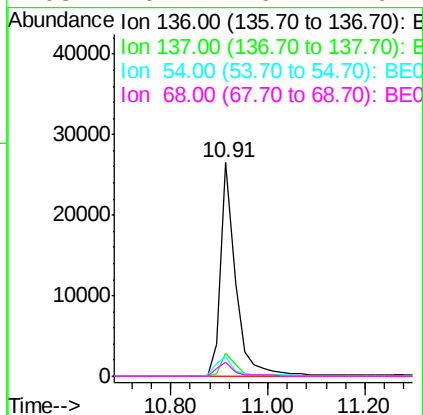
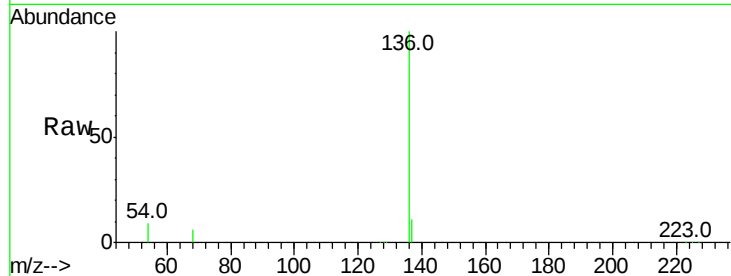
ClientSampleId :

SSTDIC0.2

Tot Ion:	136	Resp:	56677
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.2	12.4
54	9.1	9.6	14.4#
68	6.4	6.7	10.1#

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#8

Nitrobenzene-d5

Concen: 0.20 ng m

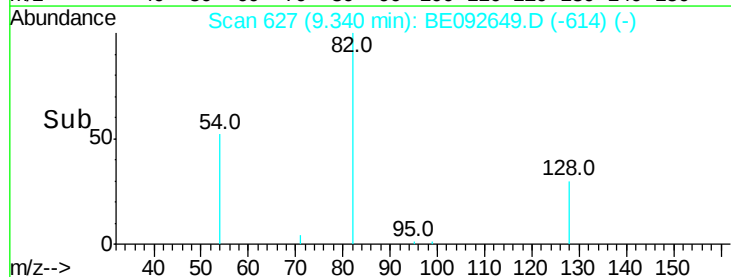
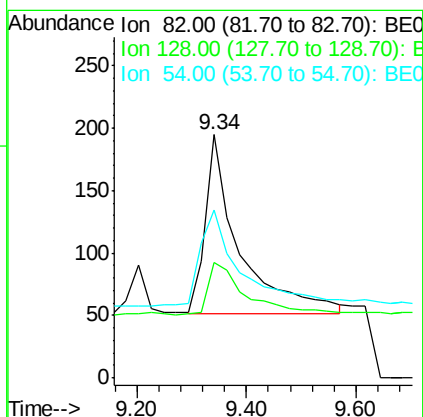
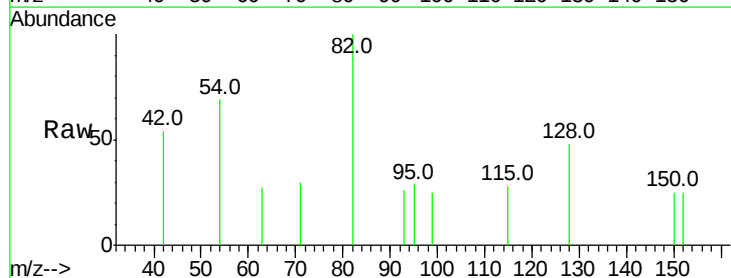
RT: 9.34 min Scan# 627

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion:	82	Resp:	630
Ion Ratio	Lower	Upper	
82	100		
128	47.7	39.0	58.4
54	69.2	44.8	67.2#





#9

Naphthalene

Concen: 0.19 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

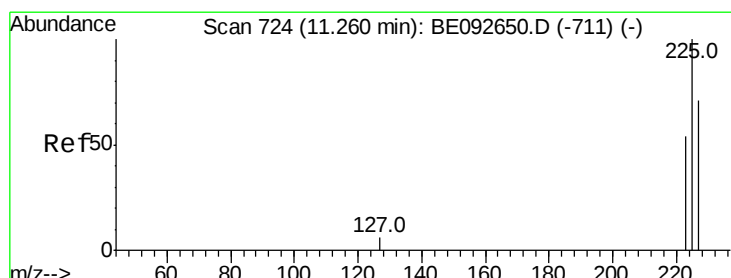
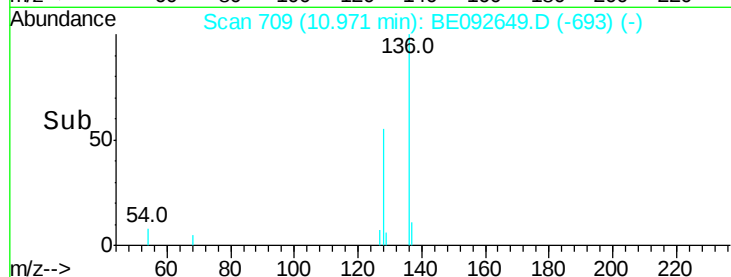
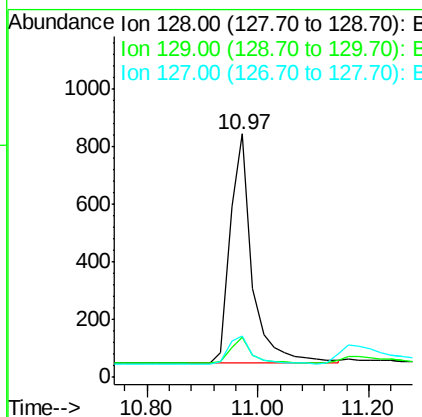
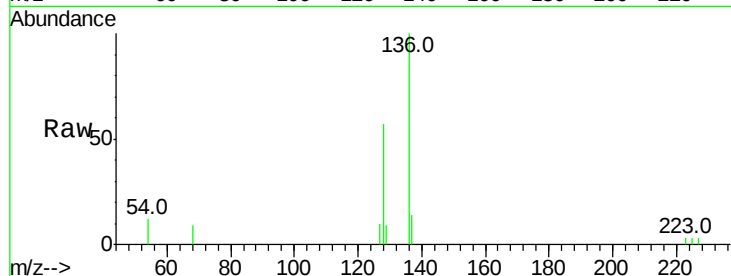
ClientSampleId :

SSTDICC0.2

Tot Ion:	128	Resp:	2172
Ion Ratio	Lower	Upper	
128	100		
129	16.5	11.2	16.8
127	16.9	11.6	17.4

Manual Integrations
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#10

Hexachlorobutadiene

Concen: 0.18 ng

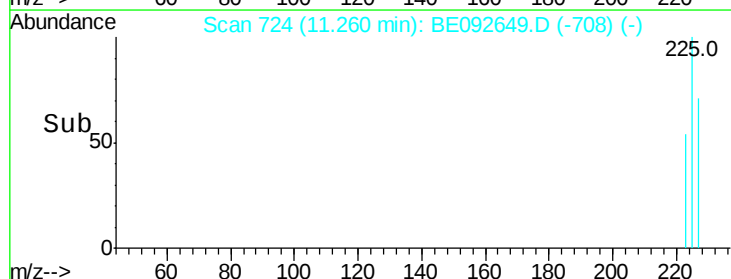
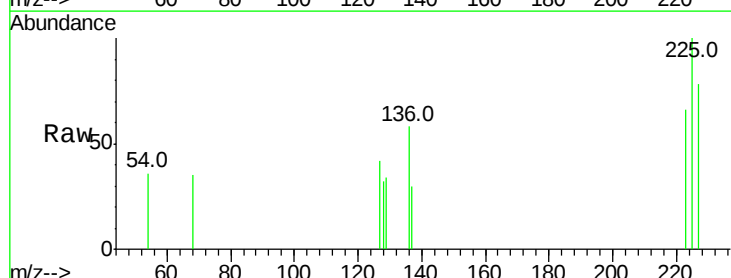
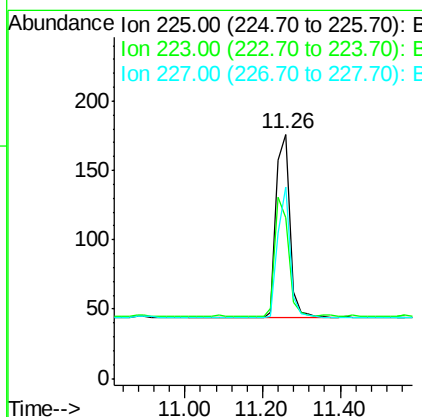
RT: 11.26 min Scan# 724

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion:	225	Resp:	318
Ion Ratio	Lower	Upper	
225	100		
223	63.8	50.6	76.0
227	64.2	51.4	77.0





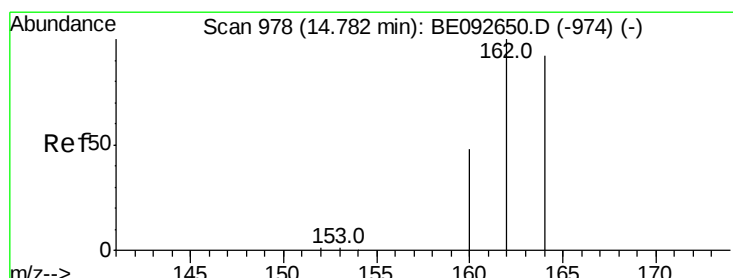
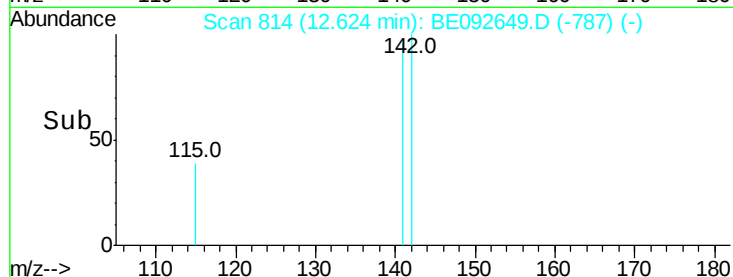
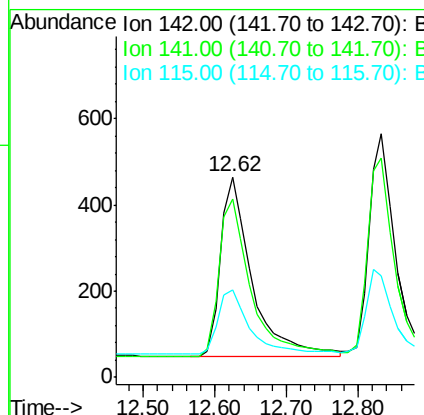
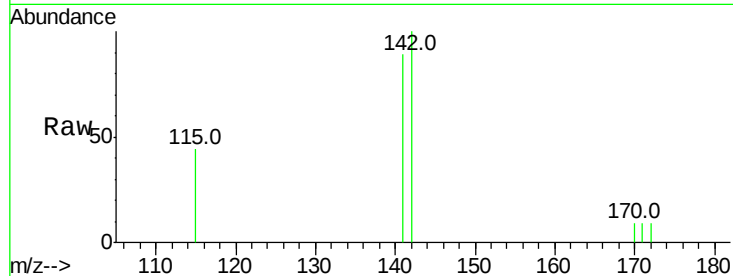
#11
2-Methylnaphthalene
Concen: 0.17 ng
RT: 12.62 min Scan# 814
Delta R.T. 0.01 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tot Ion:142 Resp: 1273
Ion Ratio Lower Upper
142 100
141 89.0 73.7 110.5
115 43.7 34.0 51.0

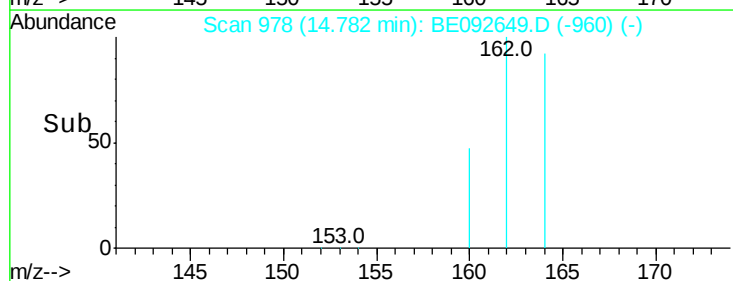
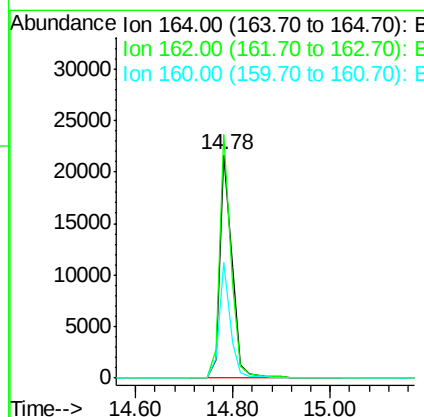
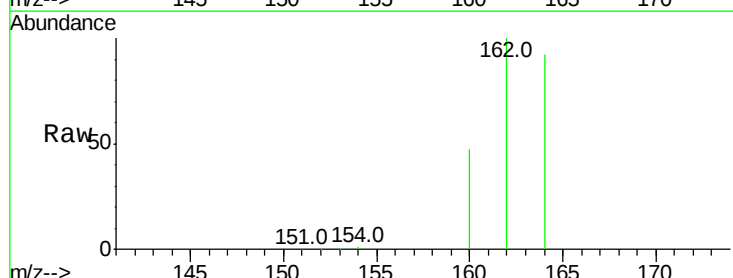
Manual Integrations
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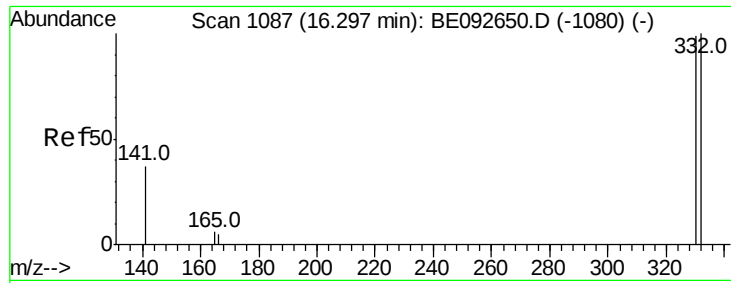
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.78 min Scan# 978
Delta R.T. 0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion:164 Resp: 37103
Ion Ratio Lower Upper
164 100
162 108.9 71.4 107.0#
160 51.7 27.4 41.2#





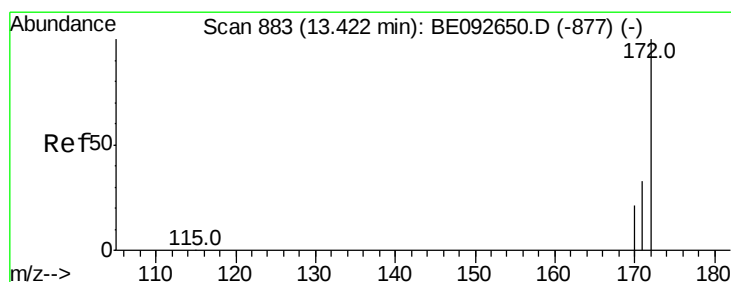
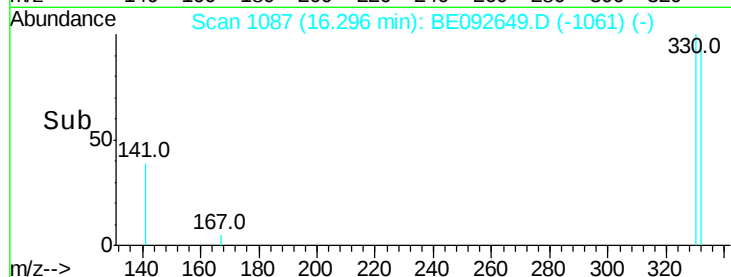
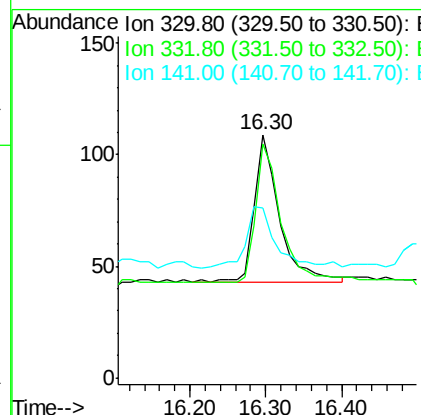
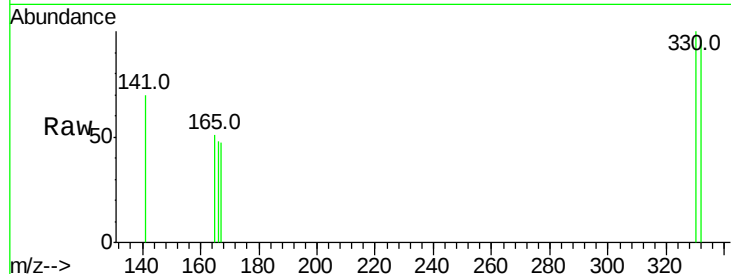
#13
 2,4,6-Tribromophenol
 Concen: 0.18 ng
 RT: 16.30 min Scan# 1087
 Delta R.T. -0.00 min
 Lab File: BE092649.D
 Acq: 16 Jan 2017 13:17

Instrument :
 BNA_E
 ClientSampled :
 SSTDICC0.2

Tot Ion:330 Resp: 150
 Ion Ratio Lower Upper
 330 100
 332 96.0 75.4 113.0
 141 51.3 31.0 46.6#

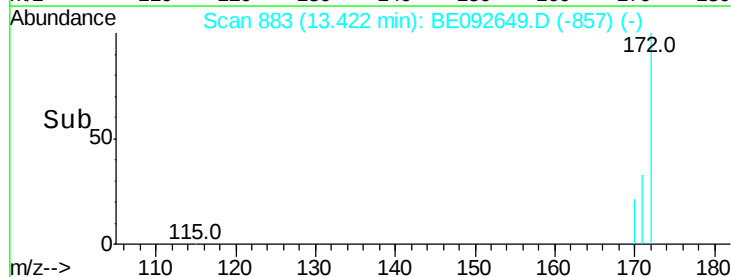
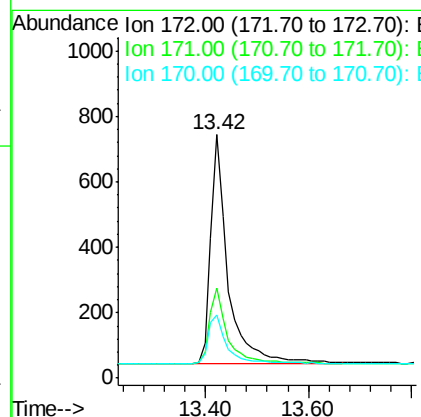
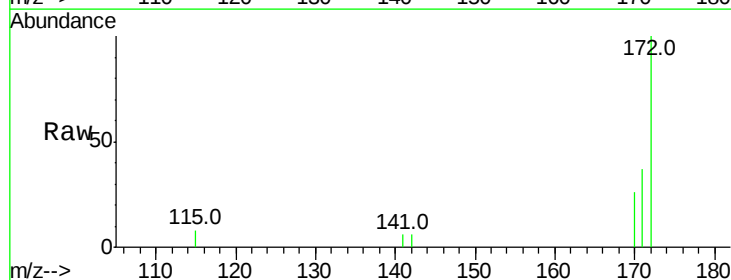
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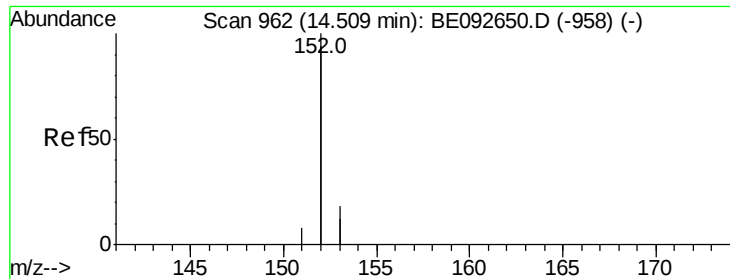
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#14
 2-Fluorobiphenyl
 Concen: 0.18 ng
 RT: 13.42 min Scan# 883
 Delta R.T. 0.00 min
 Lab File: BE092649.D
 Acq: 16 Jan 2017 13:17

Tgt Ion:172 Resp: 1638
 Ion Ratio Lower Upper
 172 100
 171 37.0 30.1 45.1
 170 25.8 21.8 32.6





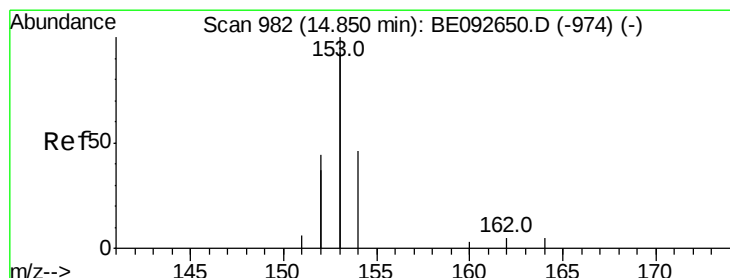
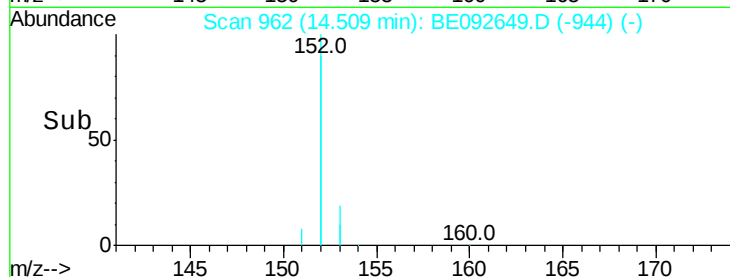
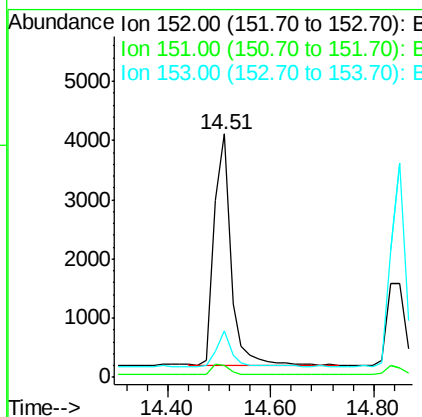
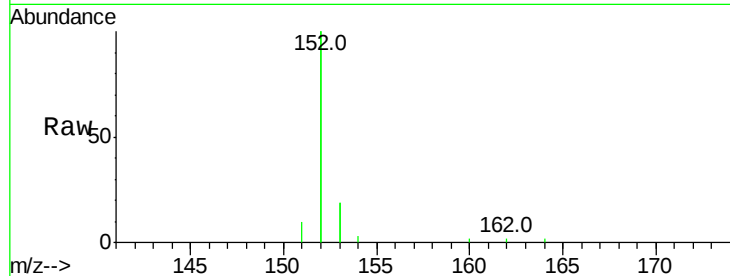
#15
Acenaphthylene
Concen: 0.17 ng
RT: 14.51 min Scan# 962
Delta R.T. 0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.4	10.4	15.6

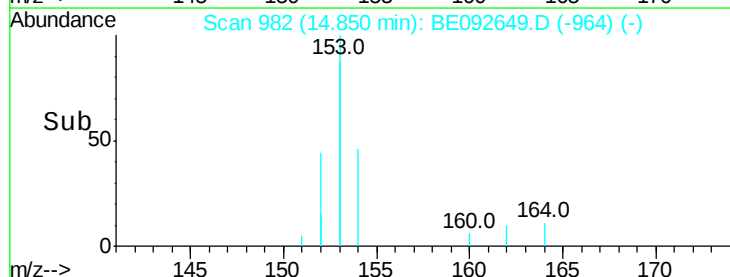
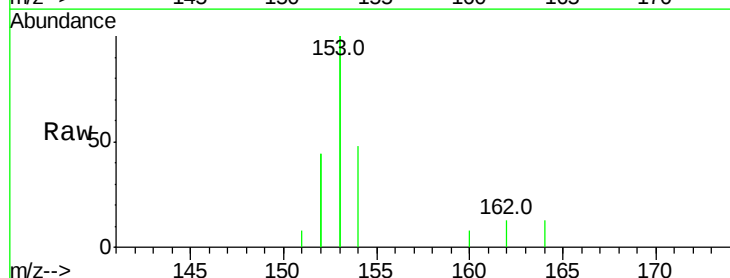
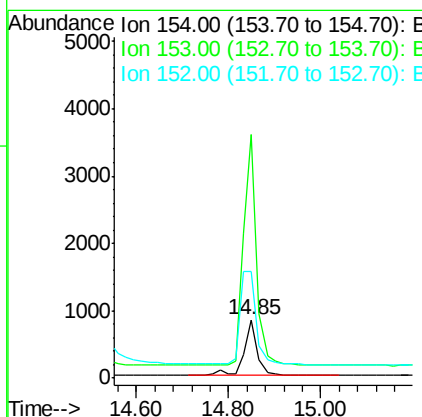
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#16
Acenaphthene
Concen: 0.19 ng
RT: 14.85 min Scan# 982
Delta R.T. 0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
154	100		
153	415.4	350.8	526.2
152	211.9	171.1	256.7





#17

Fluorene

Concen: 0.18 ng

RT: 15.84 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

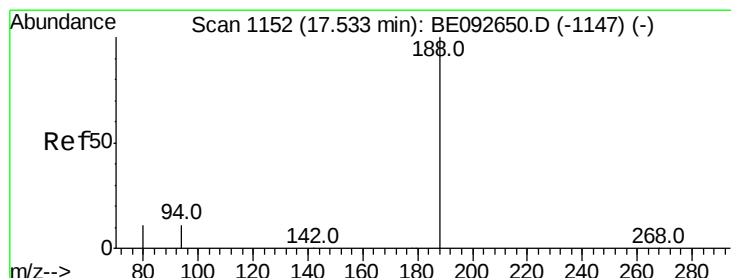
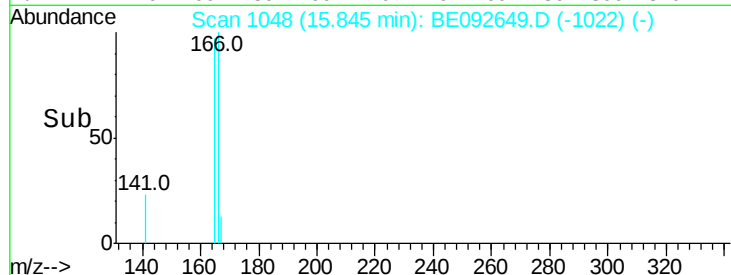
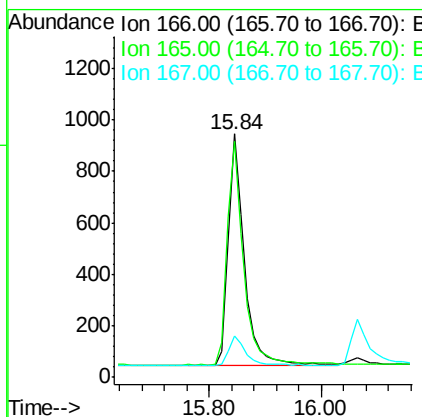
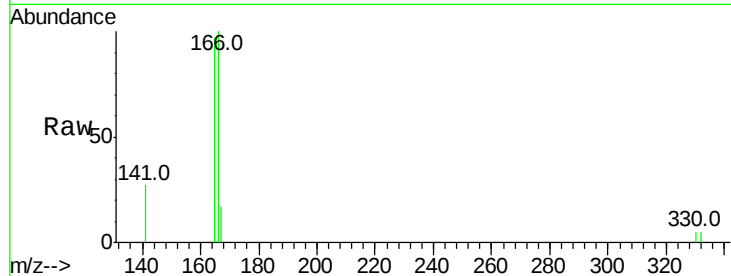
ClientSampleId :

SSTDICC0.2

Tot Ion:	166	Resp:	1829
Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.2	117.4
167	13.5	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

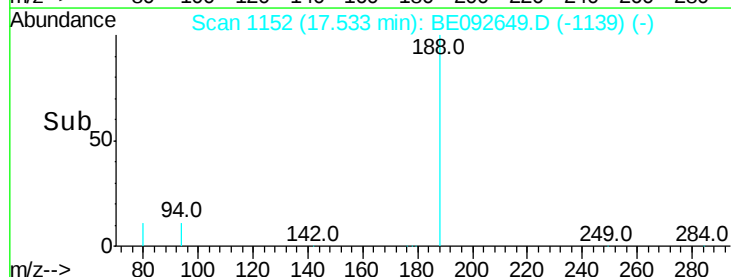
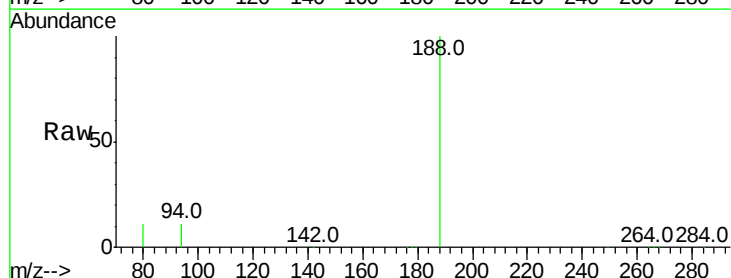
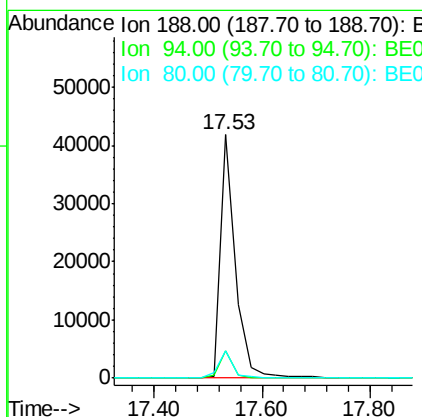
RT: 17.53 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion:	188	Resp:	81117
Ion	Ratio	Lower	Upper
188	100		
94	11.3	3.2	4.8#
80	11.1	2.6	3.8#





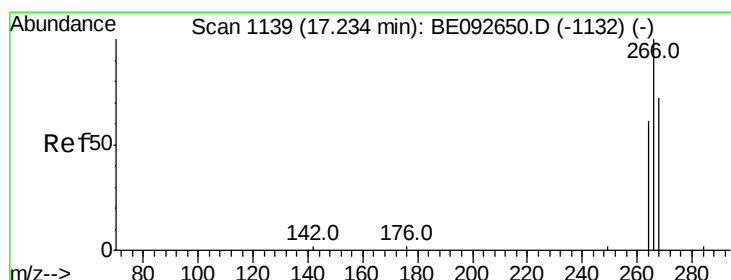
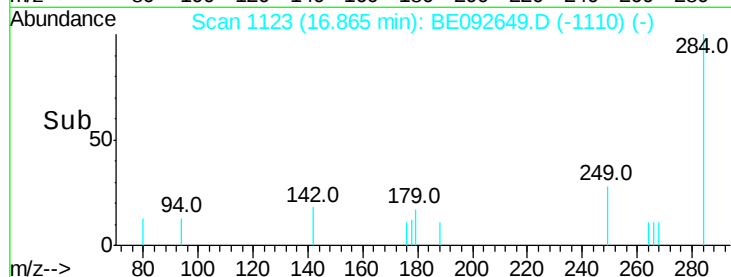
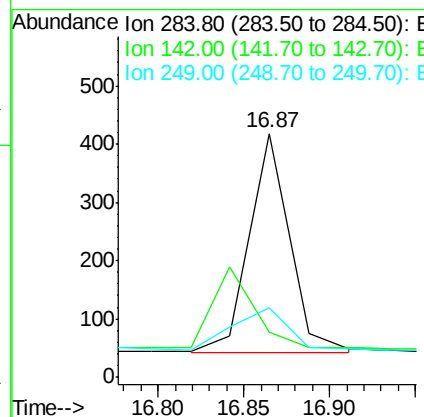
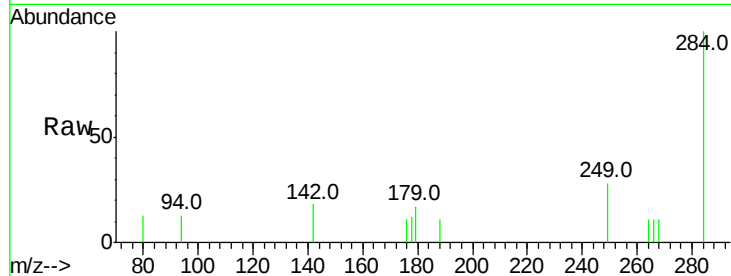
#19
Hexachlorobenzene
Concen: 0.18 ng m
RT: 16.87 min Scan# 1123
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	43.4	27.9	41.9#

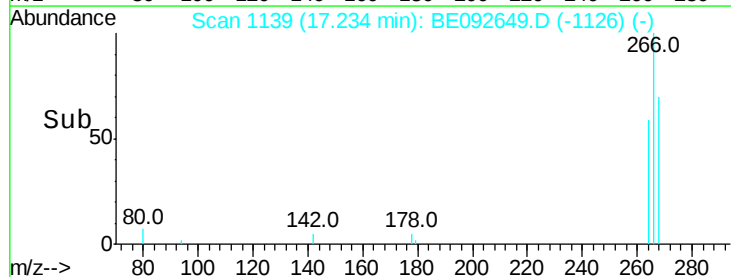
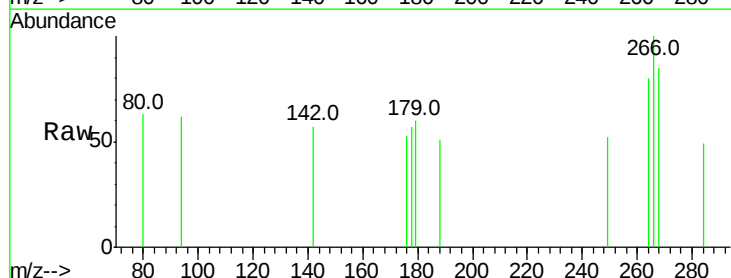
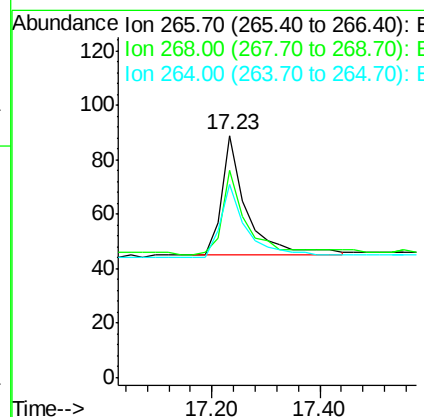
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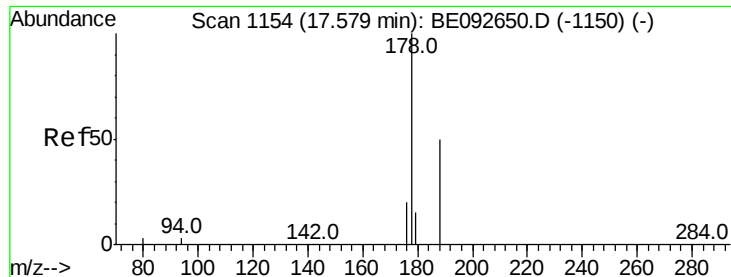
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#20
Pentachlorophenol
Concen: 0.24 ng
RT: 17.23 min Scan# 1139
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
266	100		
268	85.4	62.5	93.7
264	79.8	57.2	85.8





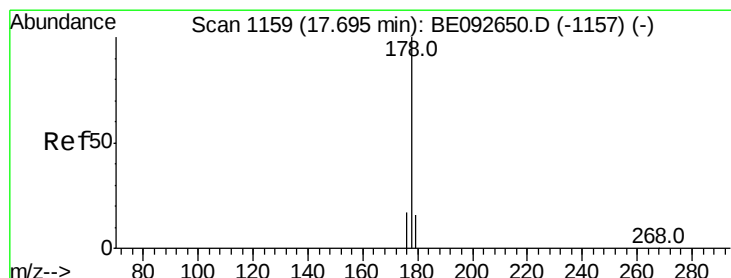
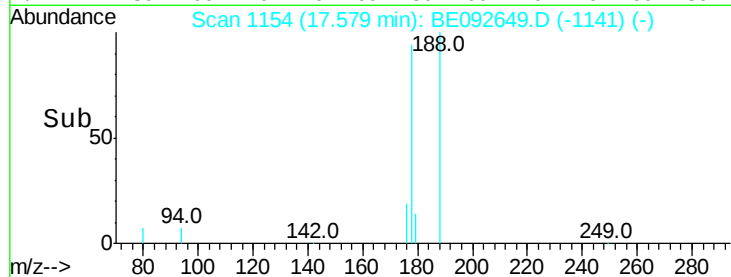
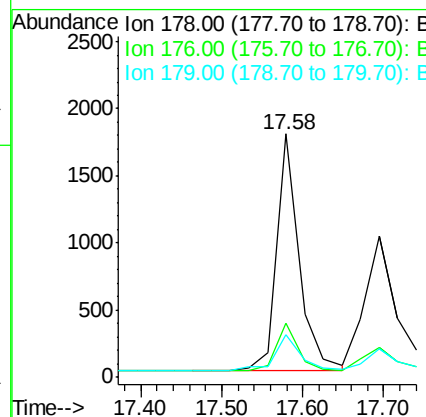
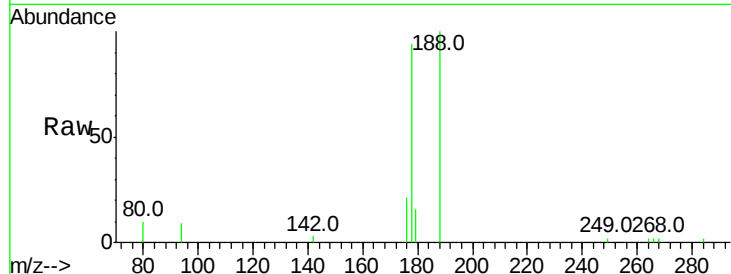
#21
Phenanthrene
Concen: 0.17 ng
RT: 17.58 min Scan# 1154
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	17.1	16.0	24.0

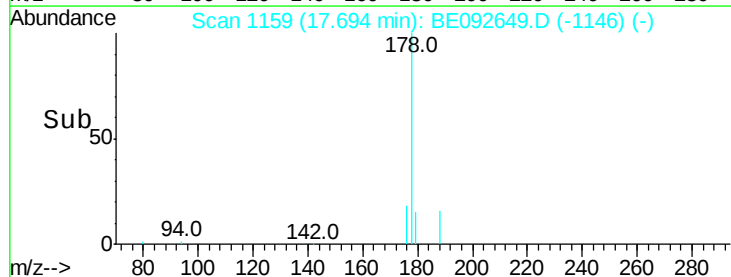
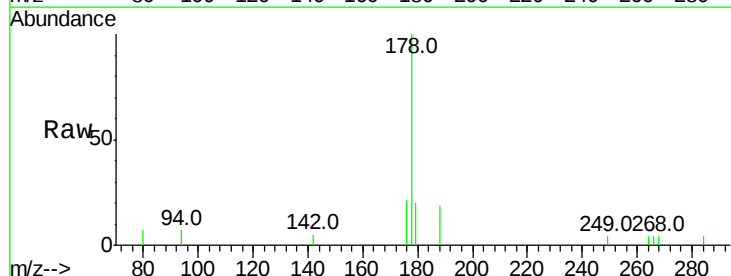
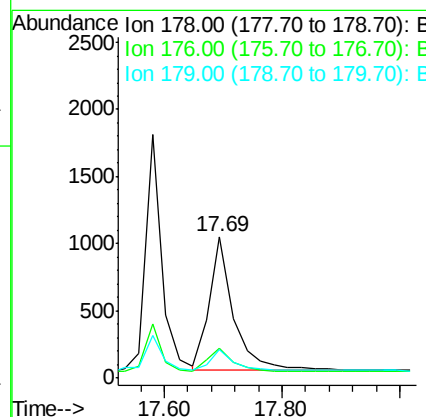
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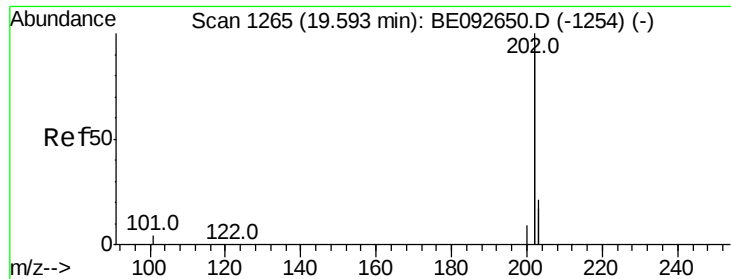
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#22
Anthracene
Concen: 0.15 ng
RT: 17.69 min Scan# 1159
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	16.4	12.2	18.2





#23

Fluoranthene

Concen: 0.16 ng

RT: 19.59 min Scan# 1265

Delta R.T. -0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

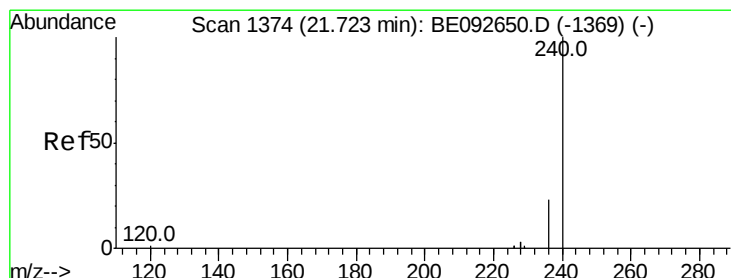
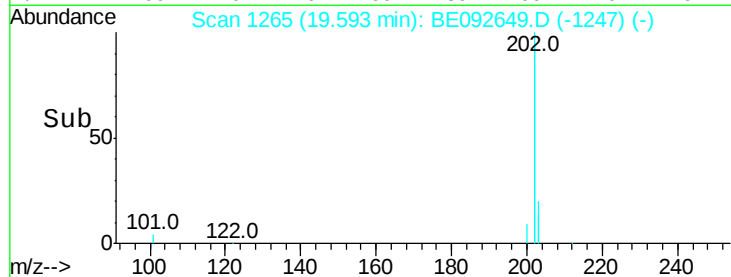
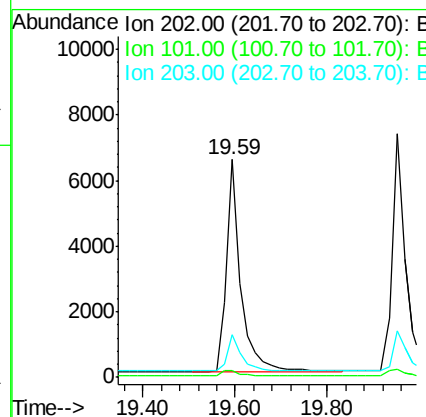
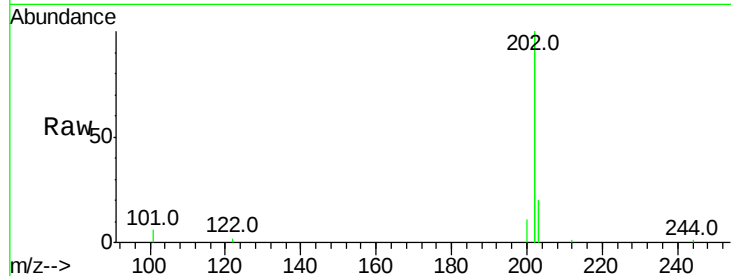
ClientSampleId :

SSTDIC0.2

Tot Ion:	202	Resp:	14199
Ion Ratio	Lower	Upper	
202	100		
101	3.0	2.2	3.4
203	17.7	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

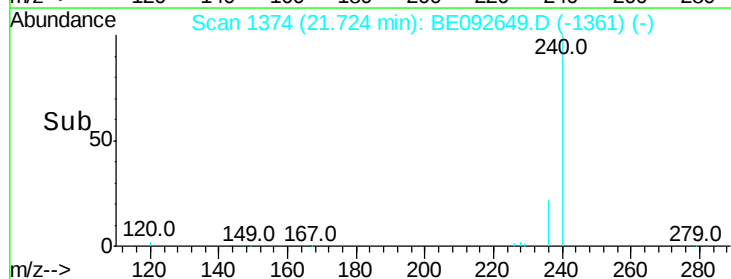
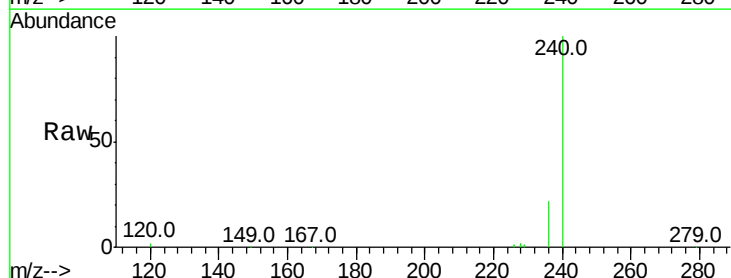
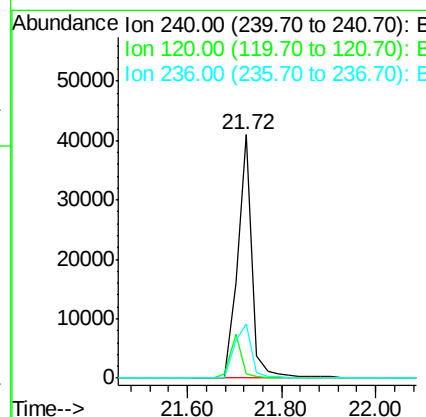
RT: 21.72 min Scan# 1374

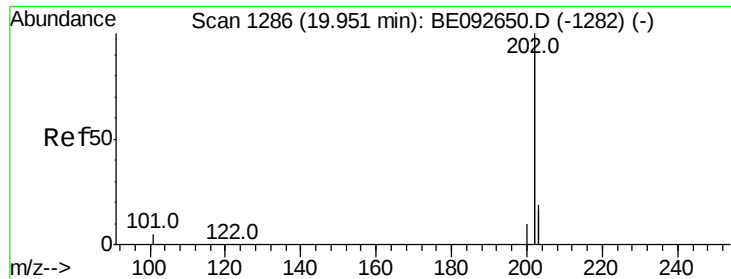
Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion:	240	Resp:	86920
Ion Ratio	Lower	Upper	
240	100		
120	1.7	2.6	4.0#
236	22.1	24.6	37.0#





#25

Pvrene

Concen: 0.19 ng

RT: 19.95 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

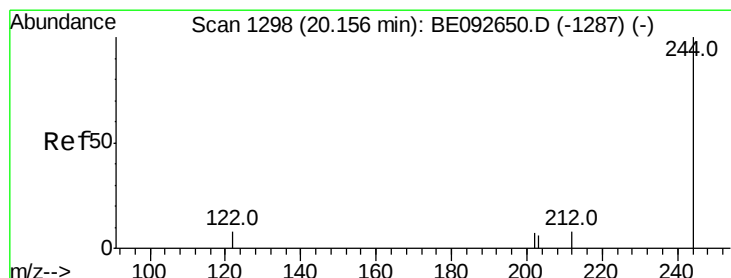
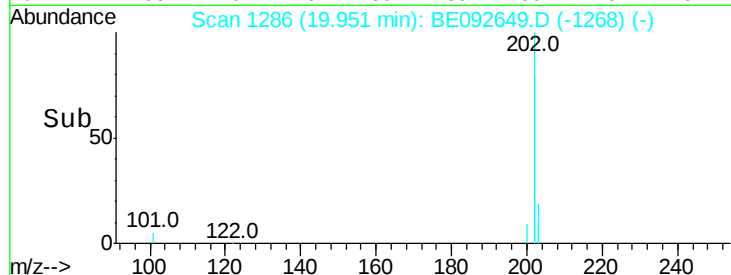
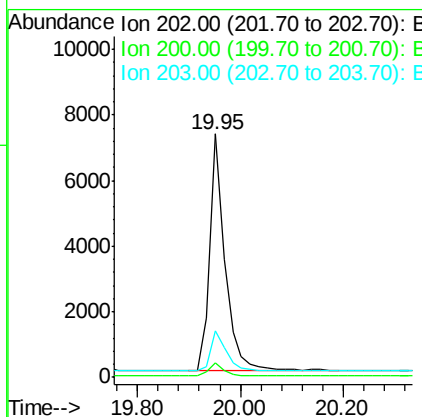
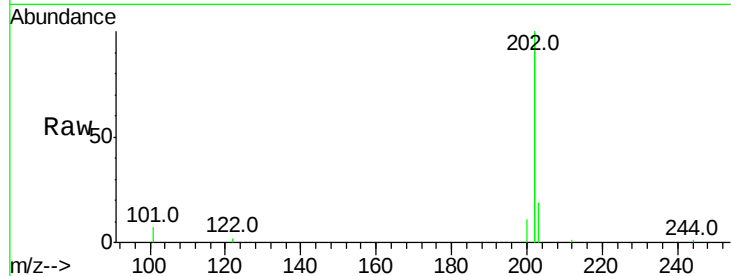
ClientSampleId :

SSTDIC0.2

Tot Ion:	202	Resp:	14847
Ion Ratio	Lower	Upper	
202	100		
200	5.4	4.2	6.4
203	17.9	13.9	20.9

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#26

Terphenyl-d14

Concen: 0.20 ng

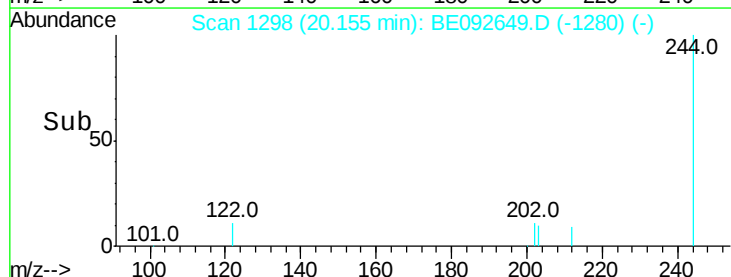
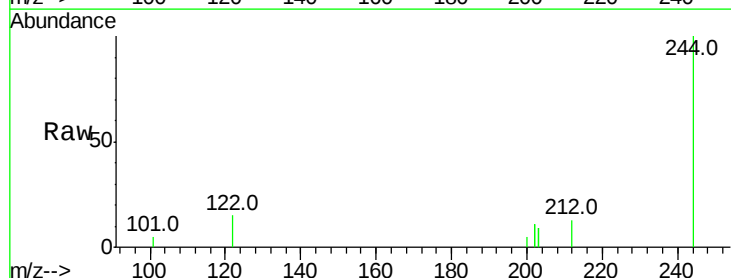
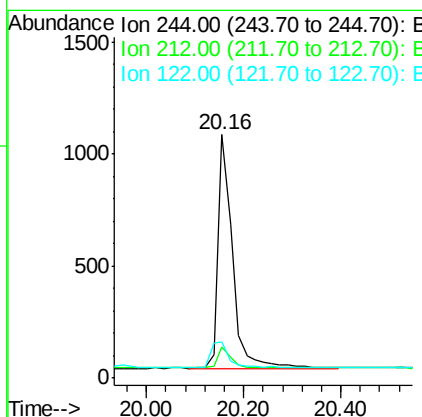
RT: 20.16 min Scan# 1298

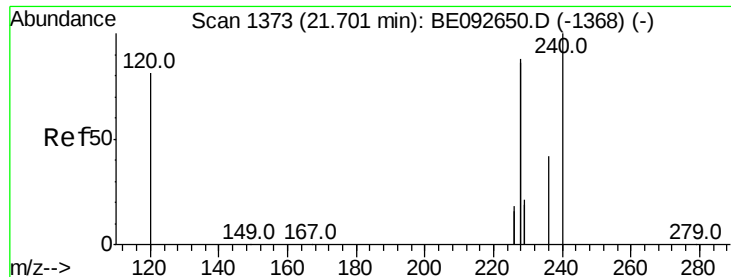
Delta R.T. -0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion:	244	Resp:	2144
Ion Ratio	Lower	Upper	
244	100		
212	12.7	6.7	10.1#
122	15.1	3.6	5.4#





#27

Benzo(a)anthracene

Concen: 0.20 ng m

RT: 21.70 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

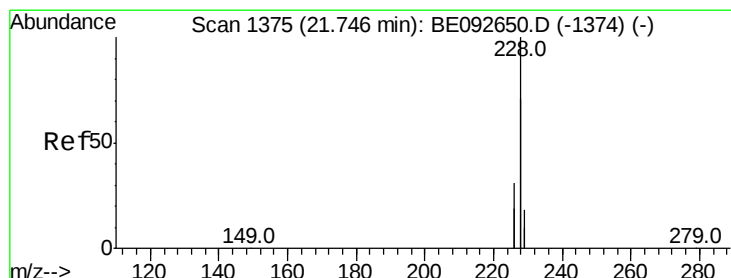
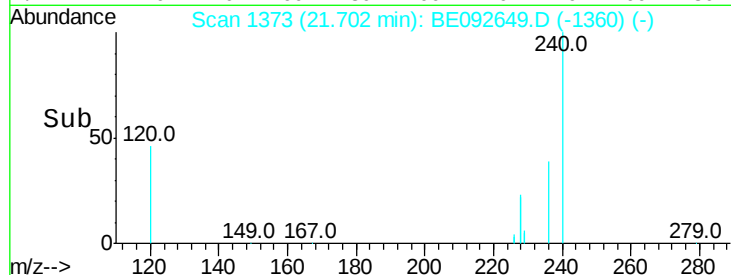
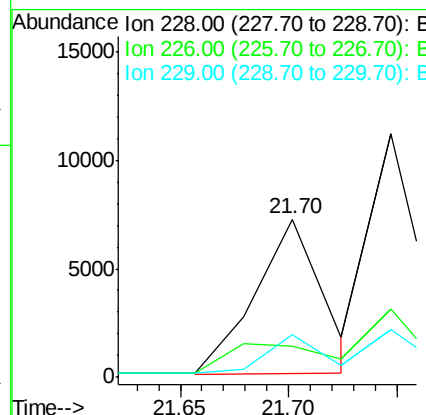
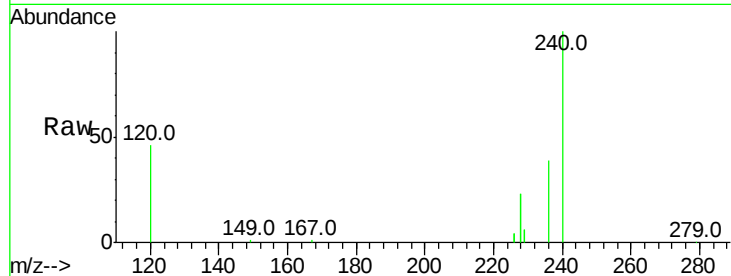
ClientSampleId :

SSTDICC0.2

Tot Ion:	228	Resp:	15517
Ion Ratio	Lower	Upper	
228	100		
226	19.6	23.6	35.4#
229	27.1	13.3	19.9#

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#28

Chrysene

Concen: 0.21 ng m

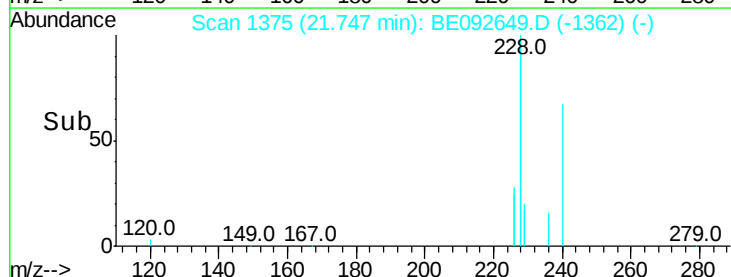
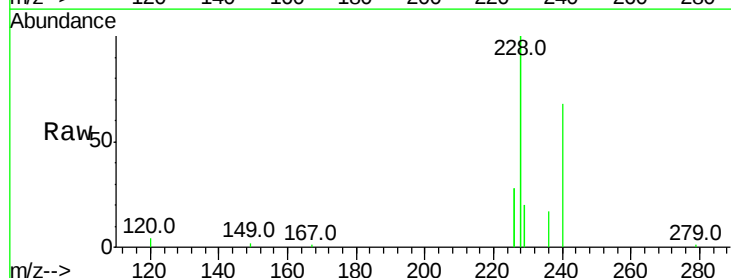
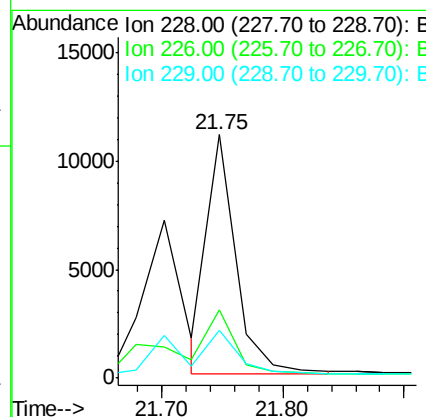
RT: 21.75 min Scan# 1375

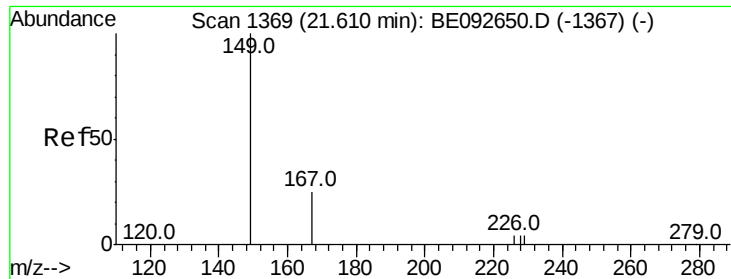
Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion:	228	Resp:	18614
Ion Ratio	Lower	Upper	
228	100		
226	28.2	36.3	54.5#
229	19.8	10.6	16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.30 ng

RT: 21.61 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Instrument :

BNA_E

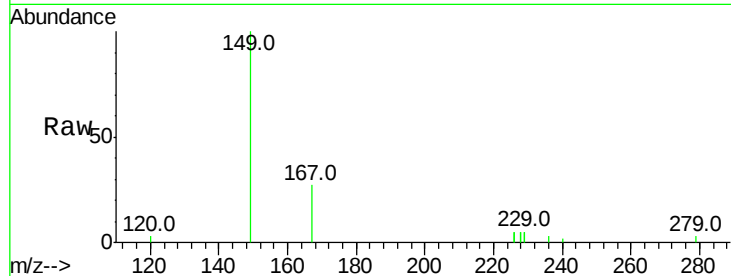
ClientSampleId :

SSTDIC0.2

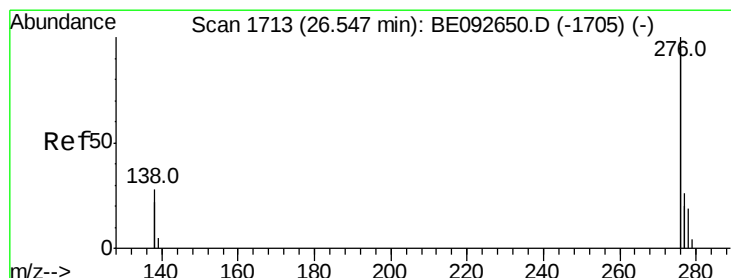
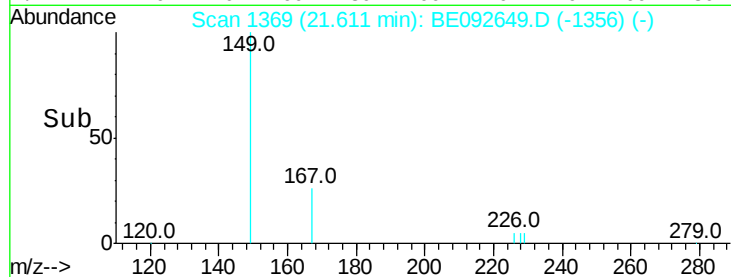
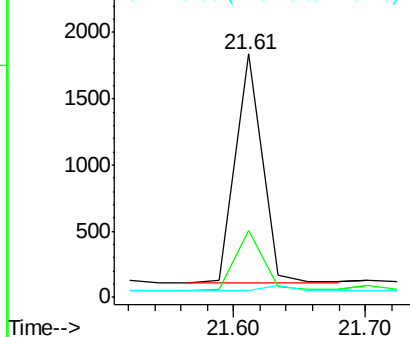
Tot Ion:	149	Resp:	2502
Ion Ratio	Lower	Upper	
149	100		
167	26.2	16.0	24.0#
279	0.0	16.0	24.0#

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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: 0.22 ng

RT: 26.57 min Scan# 1714

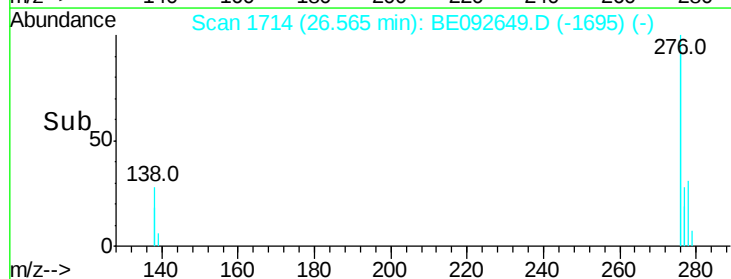
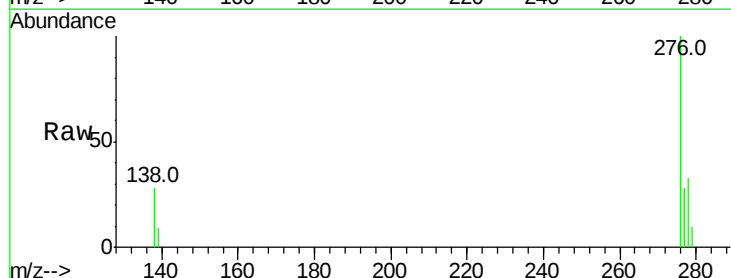
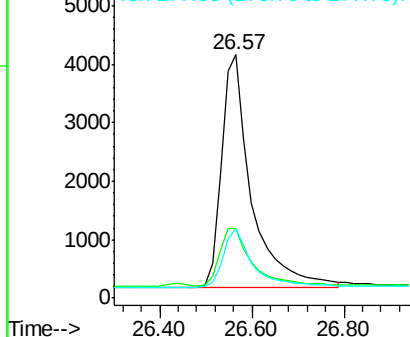
Delta R.T. 0.02 min

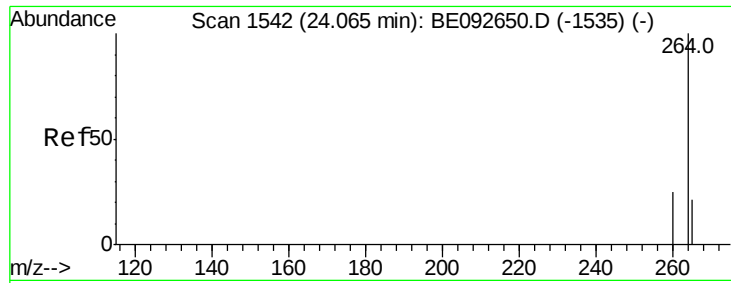
Lab File: BE092649.D

Acq: 16 Jan 2017 13:17

Tgt Ion:	276	Resp:	18170
Ion Ratio	Lower	Upper	
276	100		
138	26.5	20.3	30.5
277	24.9	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





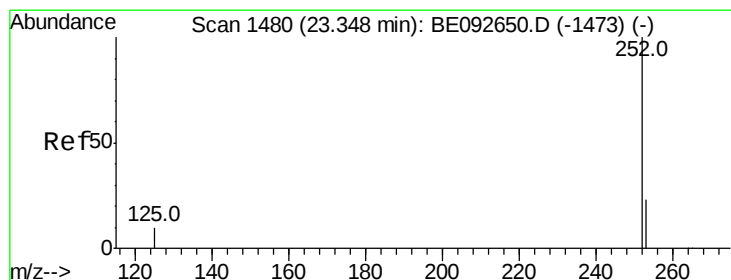
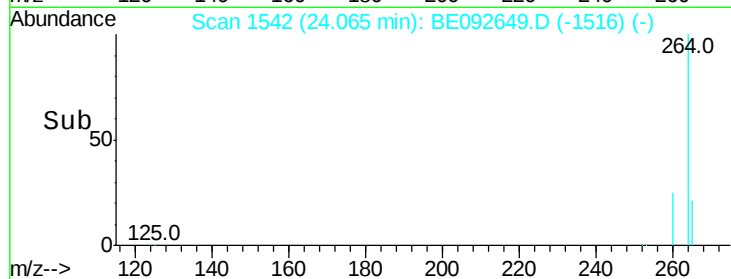
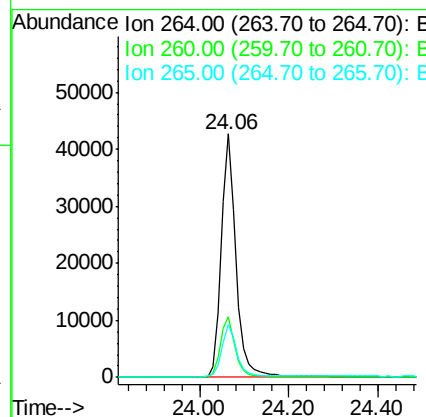
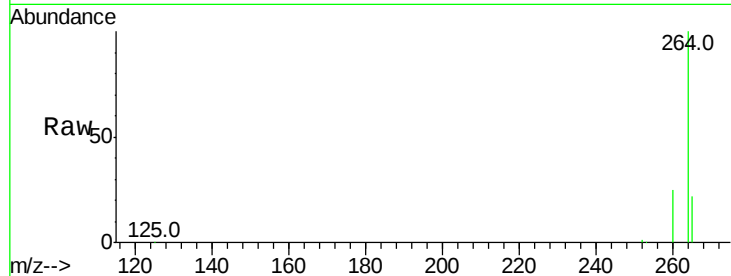
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.06 min Scan# 1542
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	20.1	30.1
265	21.6	17.9	26.9

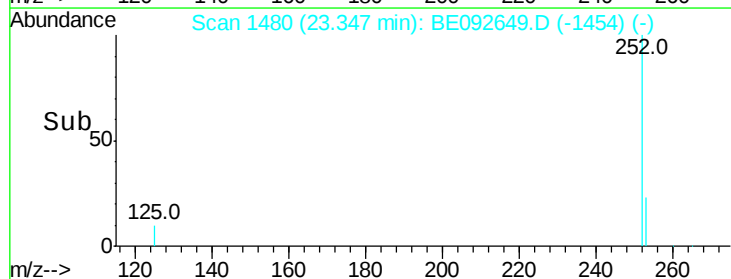
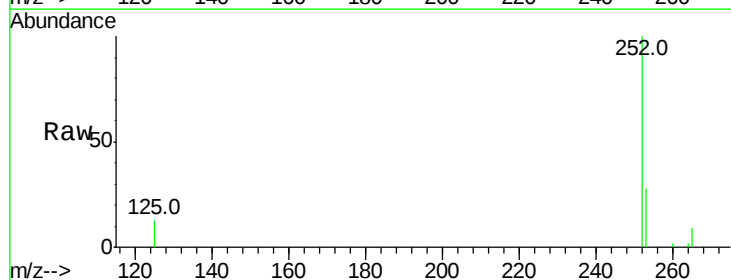
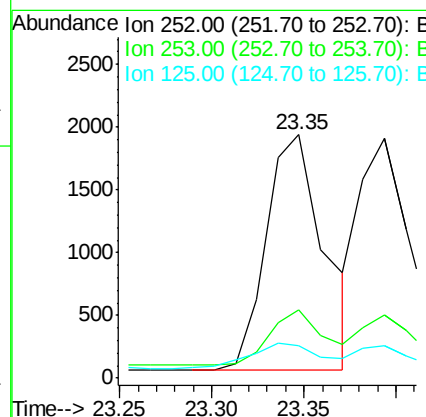
Manual Integrations
APPROVED

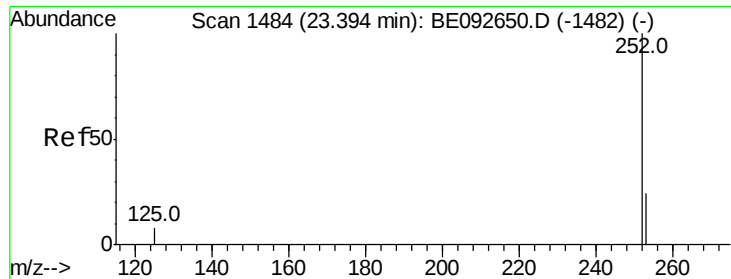
mohammad
1/17/2017 4:39:58 PM



#32
Benzo(b)fluoranthene
Concen: 0.18 ng
RT: 23.35 min Scan# 1480
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.9	18.7	28.1
125	13.1	10.5	15.7





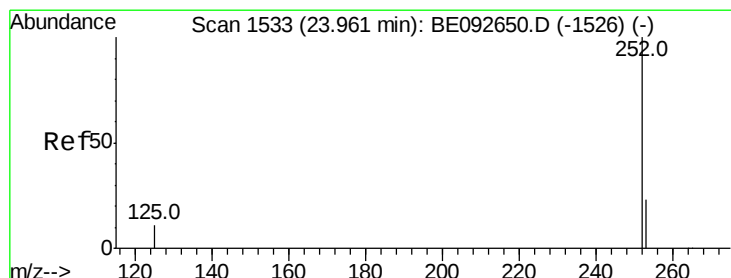
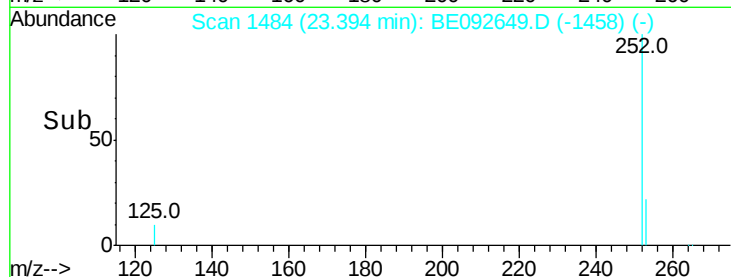
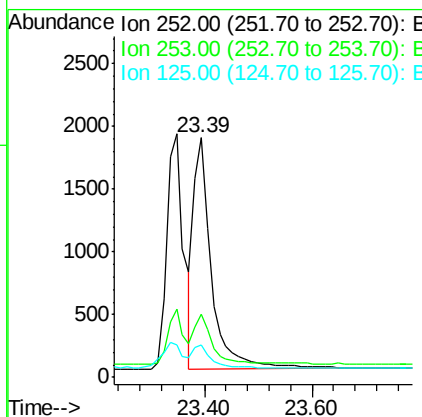
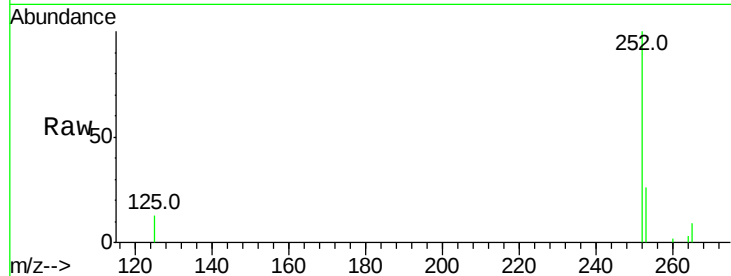
#33
Benzo(k)fluoranthene
Concen: 0.17 ng
RT: 23.39 min Scan# 1484
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.2	20.3	30.5
125	13.5	9.6	14.4

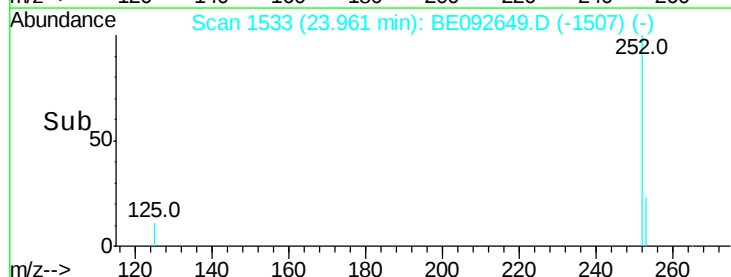
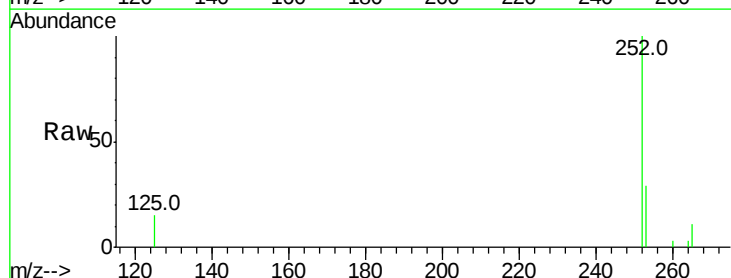
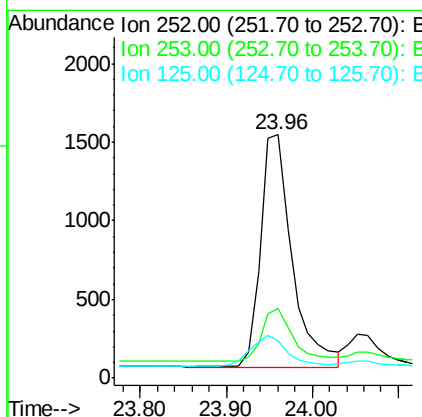
Manual Integrations
APPROVED

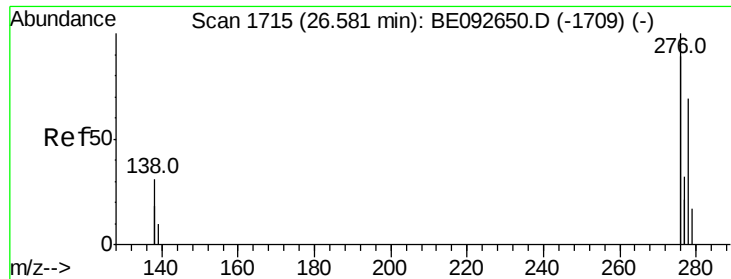
mohammad
1/17/2017 4:39:58 PM



#34
Benzo(a)pyrene
Concen: 0.17 ng
RT: 23.96 min Scan# 1533
Delta R.T. -0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.6	19.0	28.6
125	15.4	11.8	17.8





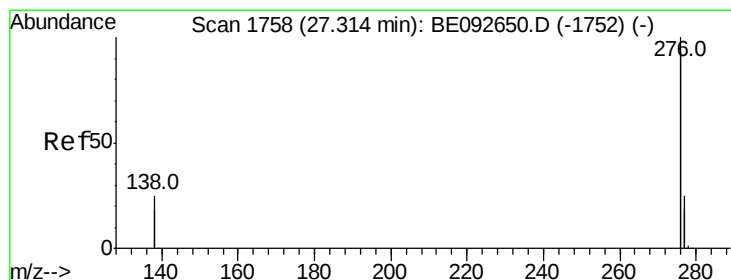
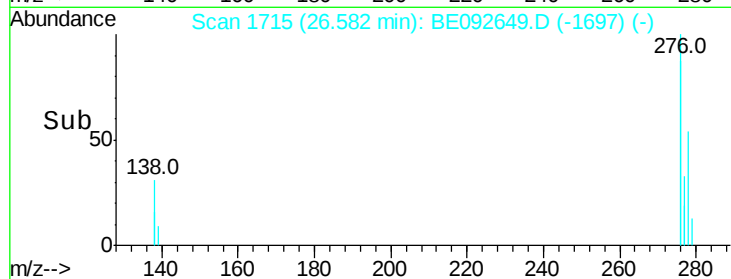
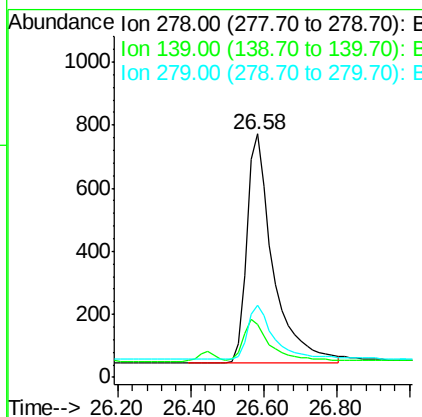
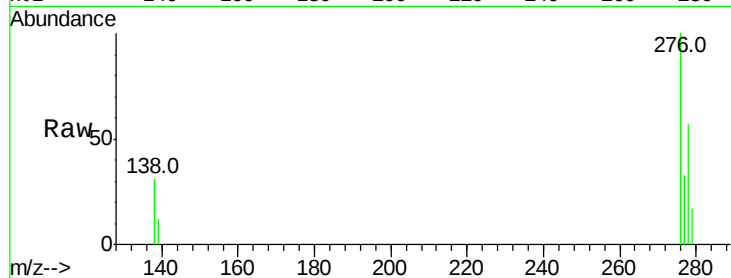
#35
Dibenzo(a,h)anthracene
Concen: 0.18 ng
RT: 26.58 min Scan# 1715
Delta R.T. 0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.6	13.8	20.8#
279	29.7	21.4	32.2

Manual Integrations
APPROVED

mohammad
1/17/2017 4:39:58 PM



#36
Benzo(g,h,i)perylene
Concen: 0.18 ng
RT: 27.31 min Scan# 1758
Delta R.T. 0.00 min
Lab File: BE092649.D
Acq: 16 Jan 2017 13:17

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.7	19.8	29.8
138	28.2	19.8	29.6

