

Data Path : Z:\HPCHEM1\BNA E\DATA\BE121916\
 Data File : BE092602.D
 Acq On : 19 Dec 2016 11:13
 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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Quant Time: Dec 19 15:11:38 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 19 14:52:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	7705	5.00	ng	0.00
7) Naphthalene-d8	10.93	136	38062	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	27210	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	58392	5.00	ng	0.00
24) Chrysene-d12	21.72	240	76185	5.00	ng	0.00
31) Perylene-d12	24.06	264	69004	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.69	112	403	0.31	ng	0.00
5) Phenol-d6	7.38	99	529	0.31	ng	0.00
8) Nitrobenzene-d5	9.36	82	679m	0.33	ng	0.00
13) 2,4,6-Tribromophenol	16.31	330	195	0.32	ng	0.00
14) 2-Fluorobiphenyl	13.43	172	2372	0.36	ng	0.00
26) Terphenyl-d14	20.17	244	3322	0.38	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.39	88	445	0.42	ng	94
3) n-Nitrosodimethylamine	3.79	42	291	0.29	ng	# 95
6) bis(2-Chloroethyl)ether	7.59	93	557	0.27	ng	# 67
9) Naphthalene	10.97	128	2896	0.37	ng	# 95
10) Hexachlorobutadiene	11.26	225	446	0.37	ng	99
11) 2-Methylnaphthalene	12.63	142	1781	0.36	ng	99
15) Acenaphthylene	14.51	152	13372	0.35	ng	99
16) Acenaphthene	14.85	154	2294	0.37	ng	96
17) Fluorene	15.86	166	2758	0.36	ng	97
19) Hexachlorobenzene	16.87	284	925m	0.40	ng	
20) Pentachlorophenol	17.23	266	117	0.28	ng	# 86
21) Phenanthrene	17.58	178	5195	0.40	ng	# 95
22) Anthracene	17.70	178	4561	0.37	ng	99
23) Fluoranthene	19.59	202	22326	0.37	ng	99
25) Pyrene	19.95	202	23588	0.39	ng	100
27) Benzo(a)anthracene	21.70	228	23438	0.33	ng	# 89
28) Chrysene	21.75	228	29229m	0.45	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	2095	0.45	ng	# 76
30) Indeno(1,2,3-cd)pyrene	26.56	276	24602	0.34	ng	98
32) Benzo(b)fluoranthene	23.35	252	5559	0.33	ng	98
33) Benzo(k)fluoranthene	23.39	252	6165	0.35	ng	97
34) Benzo(a)pyrene	23.96	252	5148	0.33	ng	98
35) Dibenzo(a,h)anthracene	26.58	278	4893	0.32	ng	# 95
36) Benzo(g,h,i)perylene	27.33	276	21937	0.34	ng	96

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

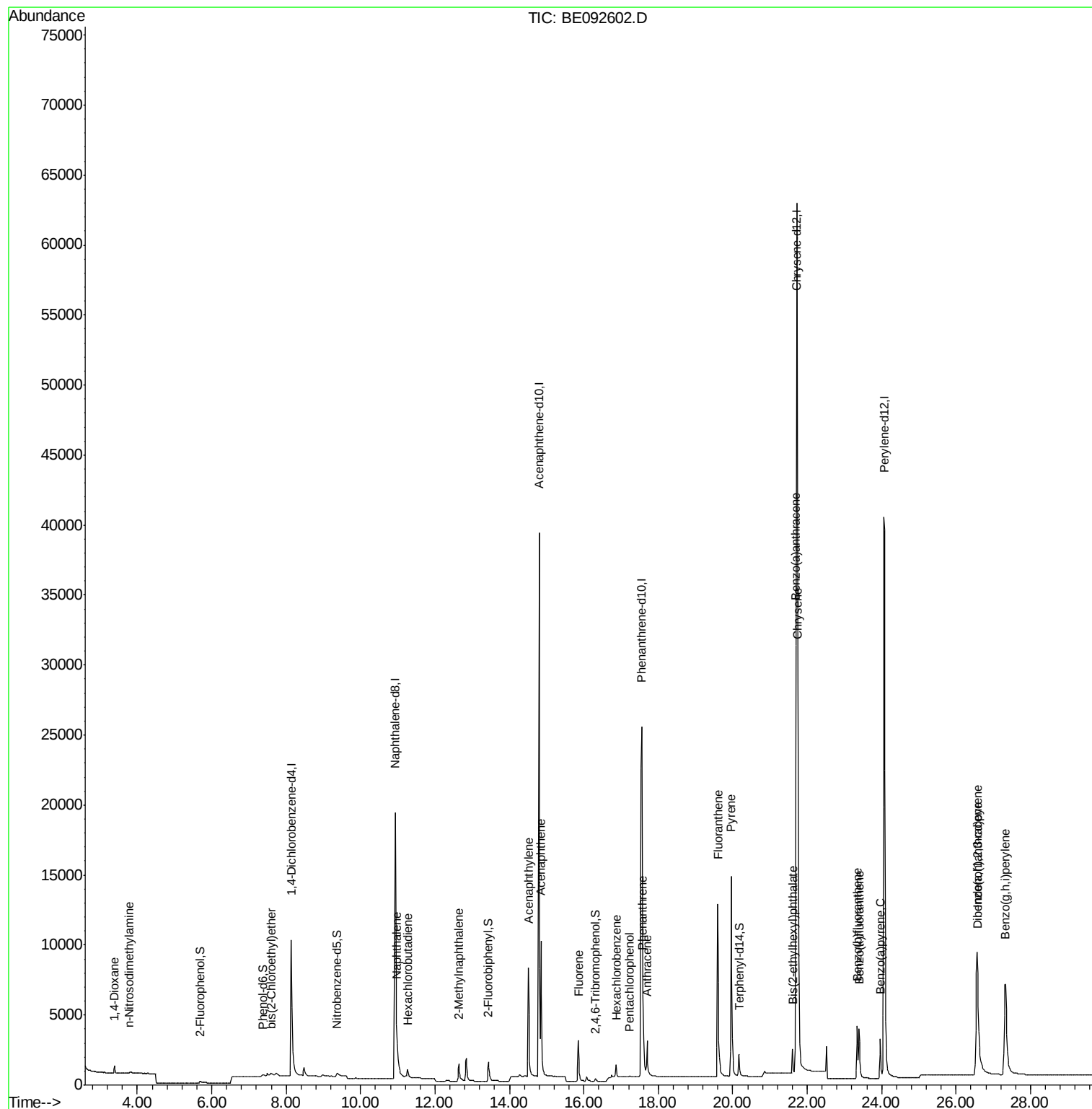
Data Path : Z:\HPCHEM1\BNA E\DATA\BE121916\
Data File : BE092602.D
Acq On : 19 Dec 2016 11:13
Operator : UM/SJ
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

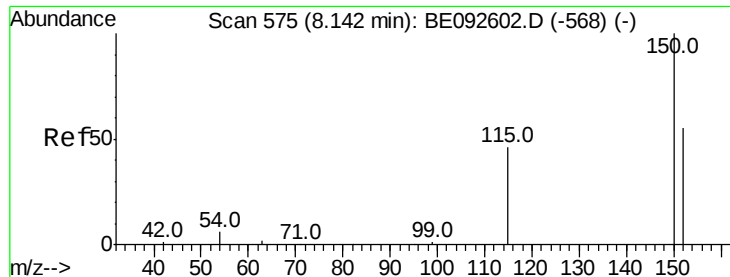
Instrument :
BNA_E
ClientSampleID :
SSTDICCC0.4

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Quant Time: Dec 19 15:11:38 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 19 14:52:01 2016
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: BE092602.D

Acq: 19 Dec 2016 11:13

Instrument :

BNA_E

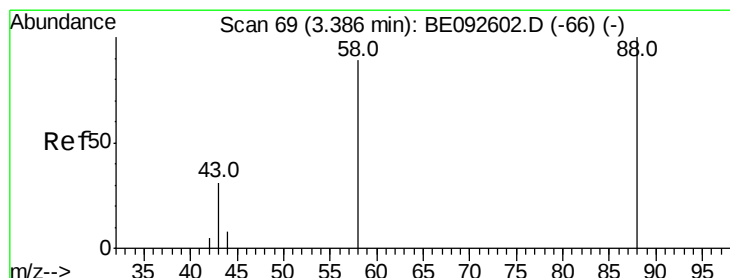
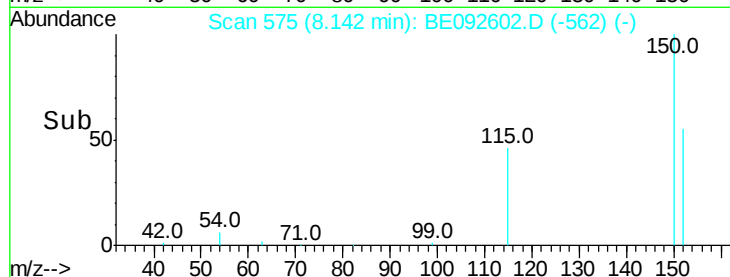
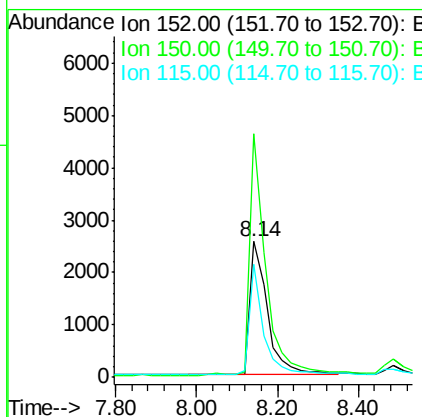
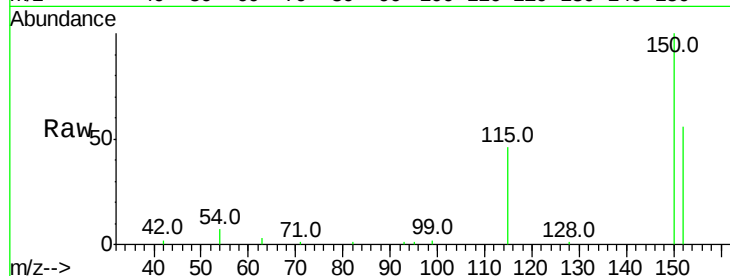
ClientSampleId :

SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
152	100		
150	179.0	106.0	159.0#
115	83.1	31.2	46.8#

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#2

1,4-Dioxane

Concen: 0.42 ng

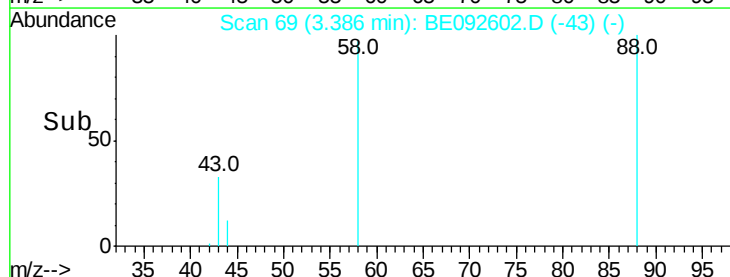
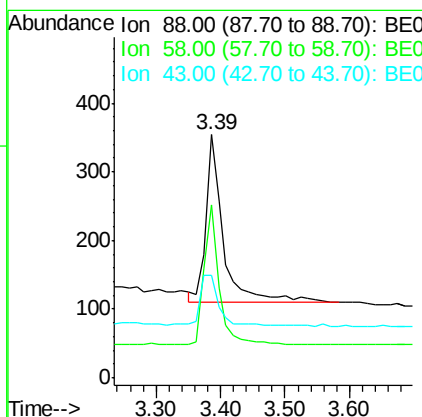
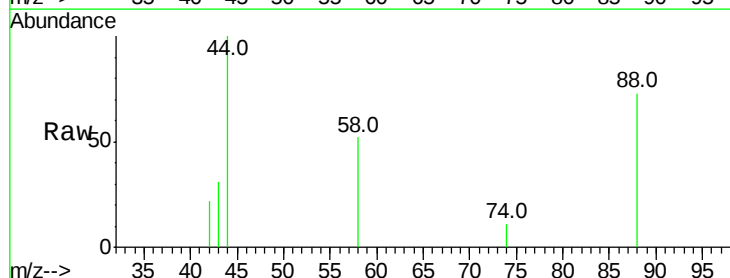
RT: 3.39 min Scan# 69

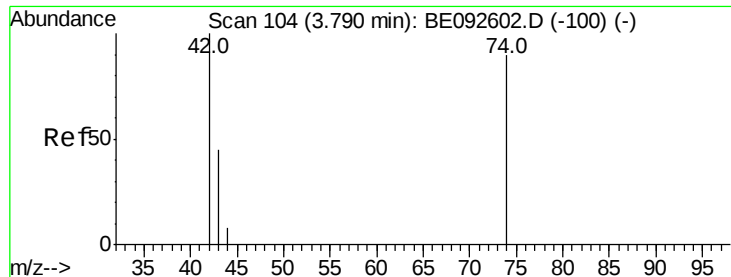
Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
88	100		
58	73.7	63.6	95.4
43	31.9	28.0	42.0





#3

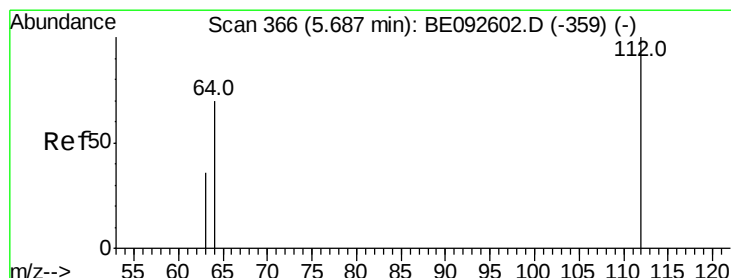
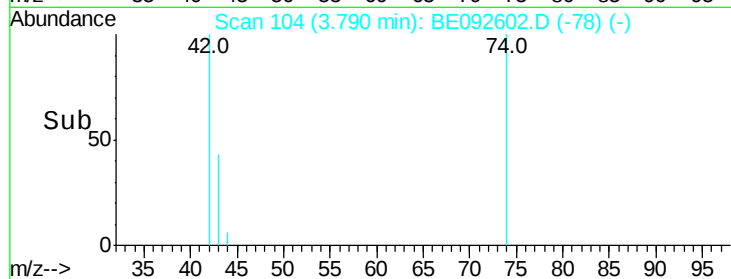
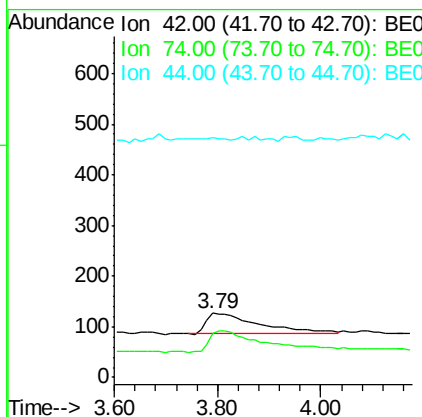
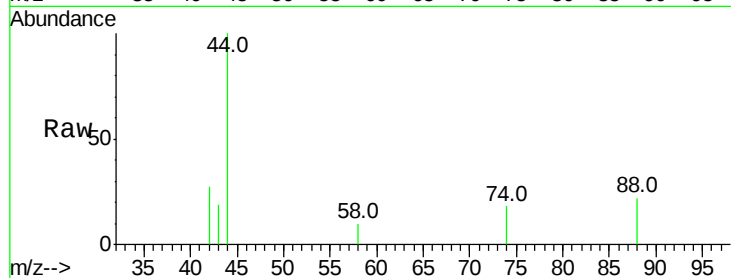
n-Nitrosodimethylamine
 Concen: 0.29 ng
 RT: 3.79 min Scan# 104
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
42	100		
74	112.4	86.0	129.0
44	7.9	5.1	7.7#

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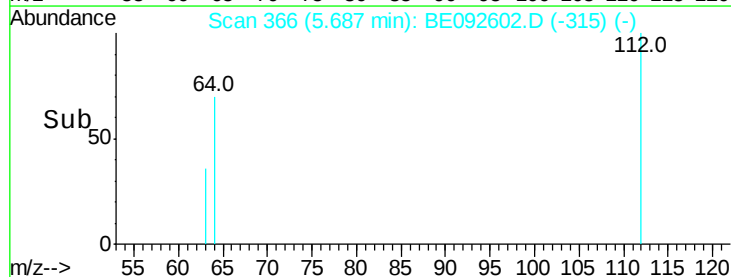
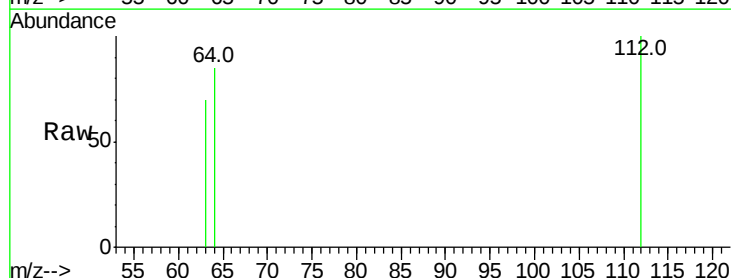
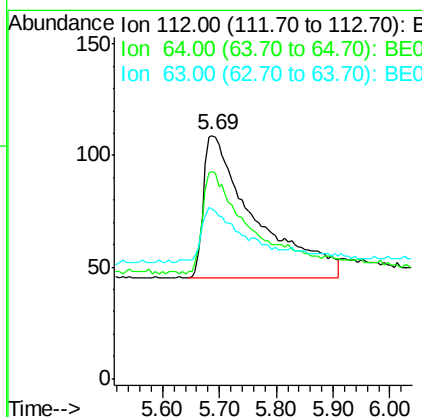
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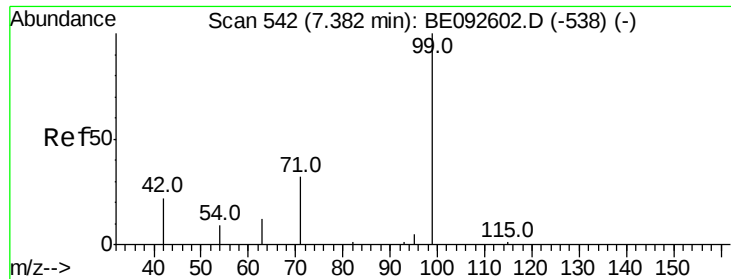


#4

2-Fluorophenol
 Concen: 0.31 ng
 RT: 5.69 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.5	80.3
63	28.8	27.9	41.9





#5

Phenol-d6

Concen: 0.31 ng

RT: 7.38 min Scan# 542

Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Instrument :

BNA_E

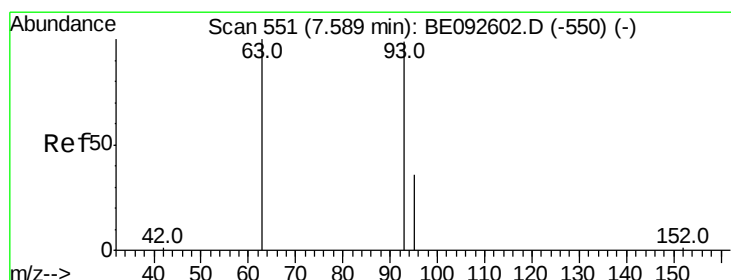
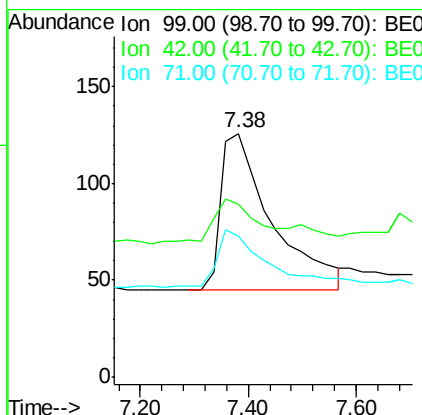
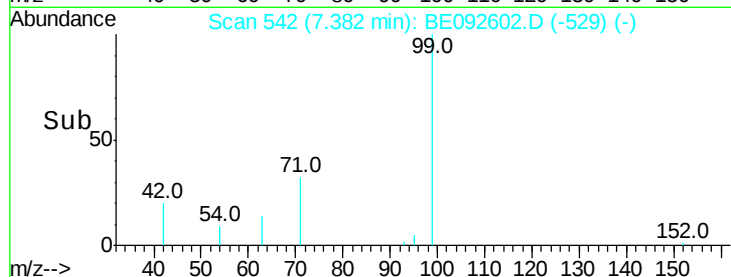
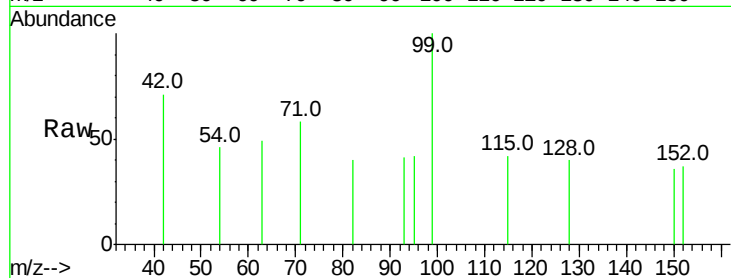
ClientSampleId :

SSTDICCC0.4

Tot Ion:	99	Resp:	529
Ion	Ratio	Lower	Upper
99	100		
42	0.0	16.0	24.0#
71	0.0	30.6	45.8#

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#6

bis(2-Chloroethyl)ether

Concen: 0.27 ng

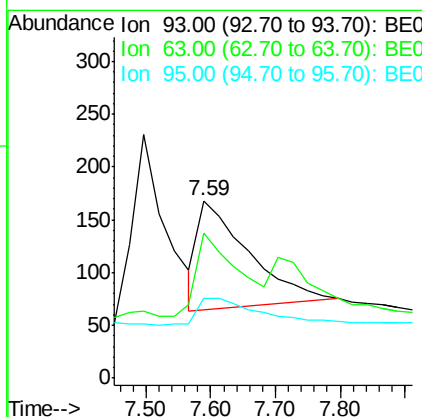
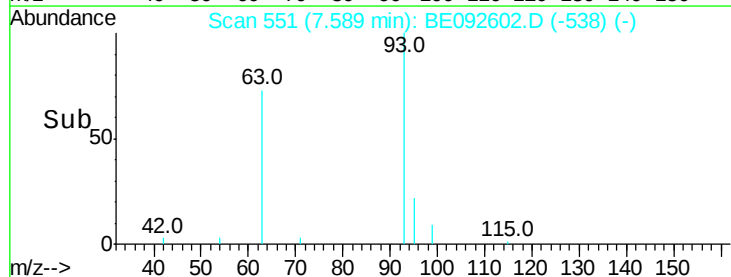
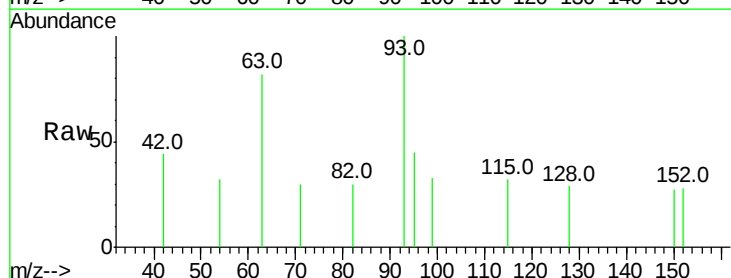
RT: 7.59 min Scan# 551

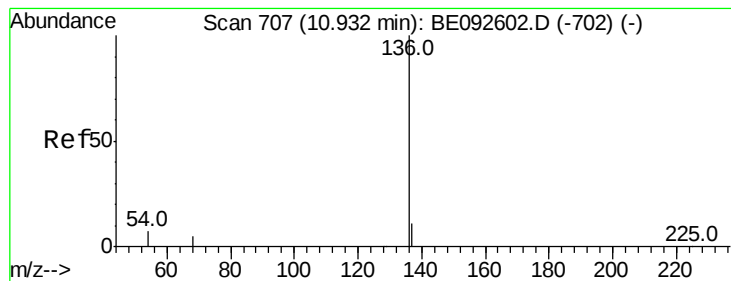
Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Tgt Ion:	93	Resp:	557
Ion	Ratio	Lower	Upper
93	100		
63	66.1	71.6	107.4#
95	0.0	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: BE092602.D

Acq: 19 Dec 2016 11:13

Instrument :

BNA_E

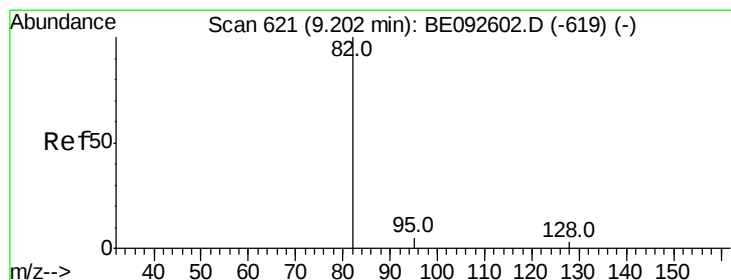
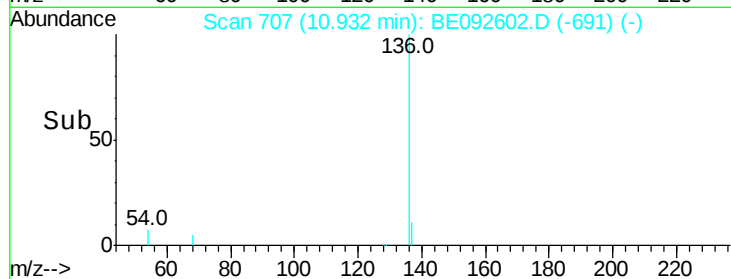
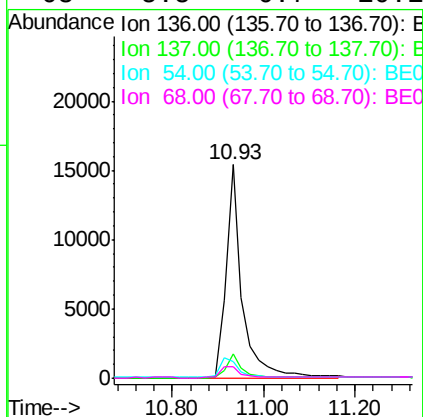
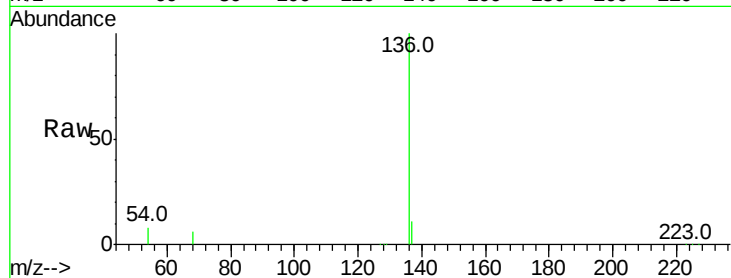
ClientSampleId :

SSTDICCC0.4

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.3	8.2	12.4	
54	7.5	9.6	14.4	
68	5.5	6.7	10.1	

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#8

Nitrobenzene-d5

Concen: 0.33 ng m

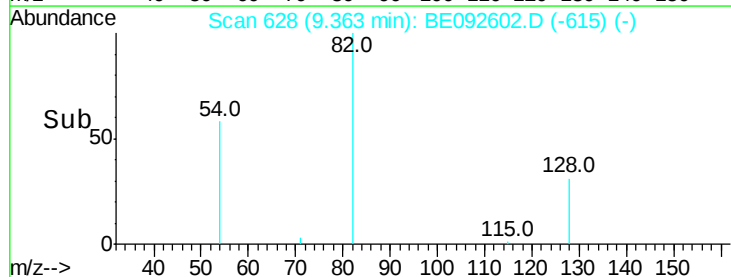
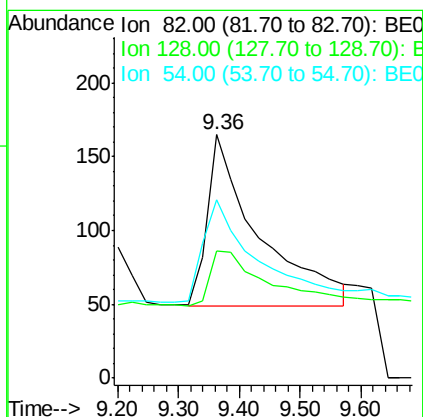
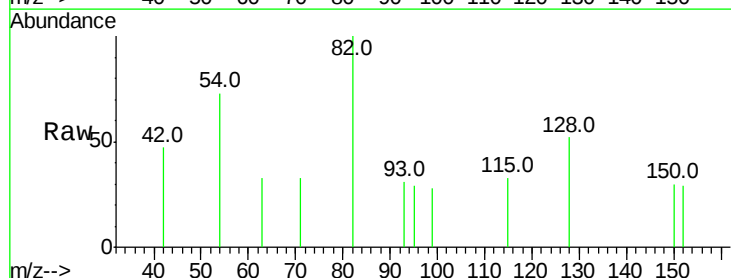
RT: 9.36 min Scan# 628

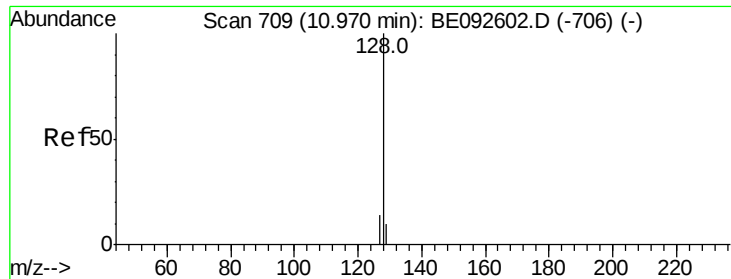
Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	52.1	39.0	58.4	
54	73.3	44.8	67.2	





#9

Naphthalene

Concen: 0.37 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Instrument :

BNA_E

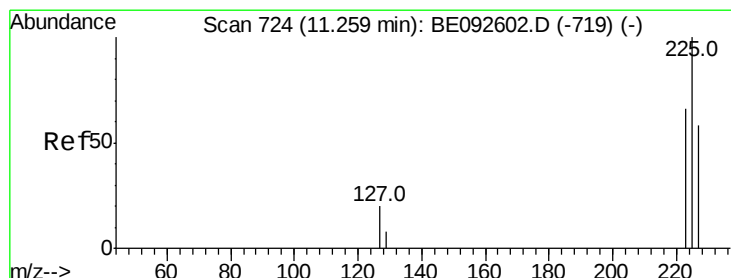
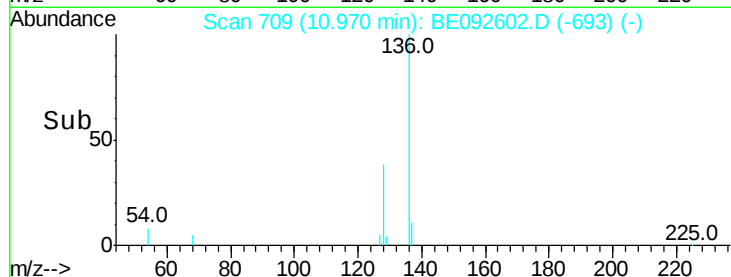
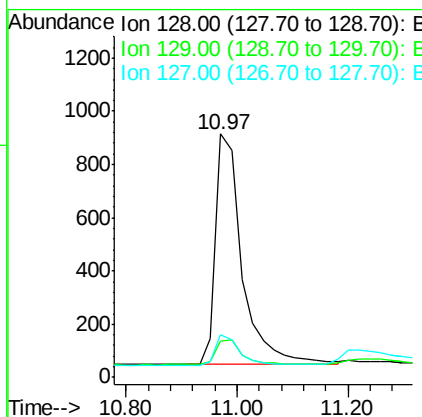
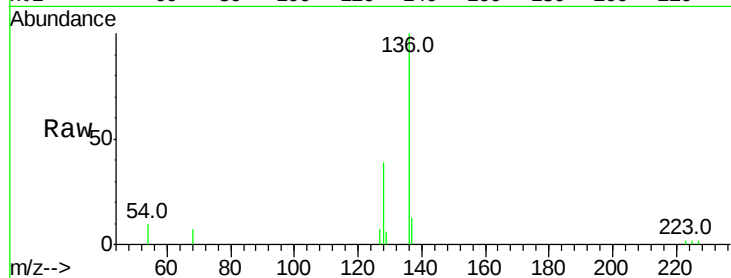
ClientSampleId :

SSTDICCC0.4

Tot Ion:	128	Resp:	2896
Ion	Ratio	Lower	Upper
128	100		
129	14.8	11.2	16.8
127	17.8	11.6	17.4#

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#10

Hexachlorobutadiene

Concen: 0.37 ng

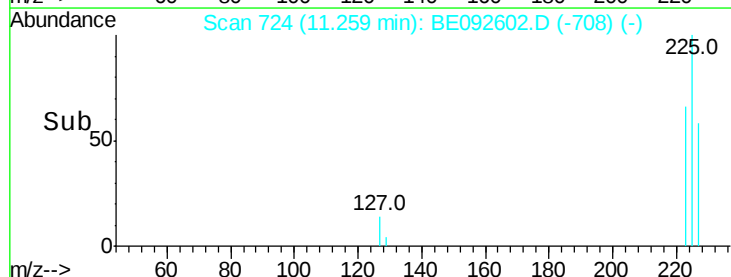
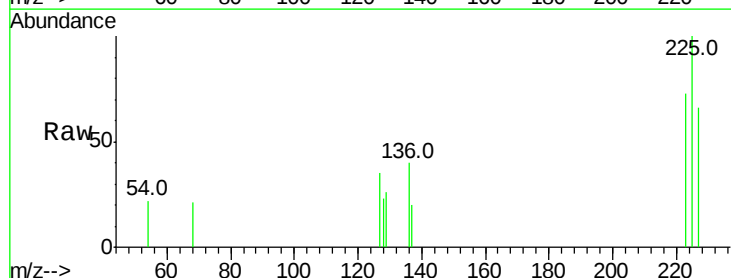
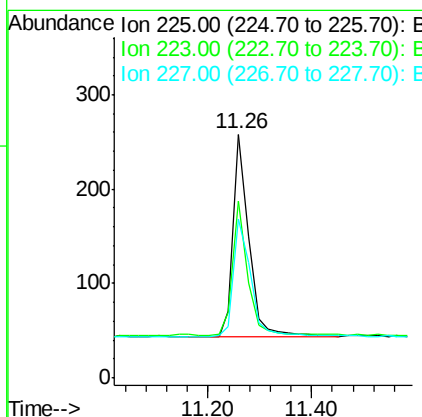
RT: 11.26 min Scan# 724

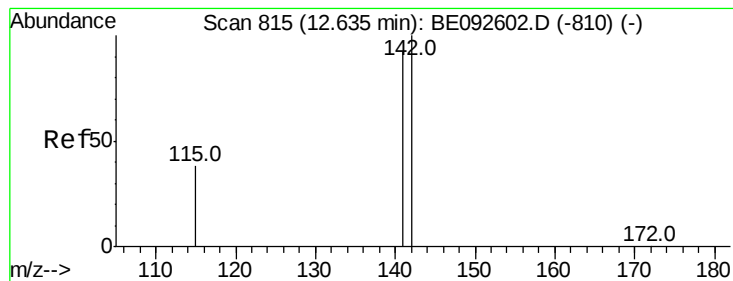
Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Tgt Ion:	225	Resp:	446
Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.6	76.0
227	63.0	51.4	77.0





#11

2-Methylnaphthalene

Concen: 0.36 ng

RT: 12.63 min Scan# 815

Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Instrument :

BNA_E

ClientSampleId :

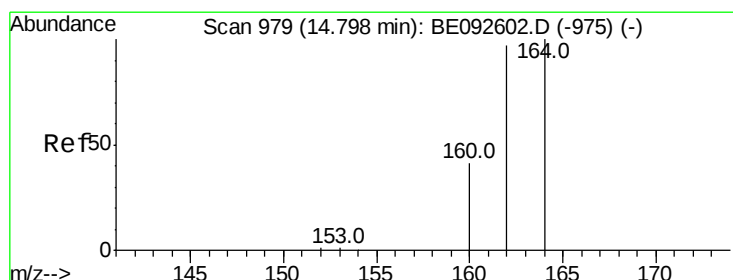
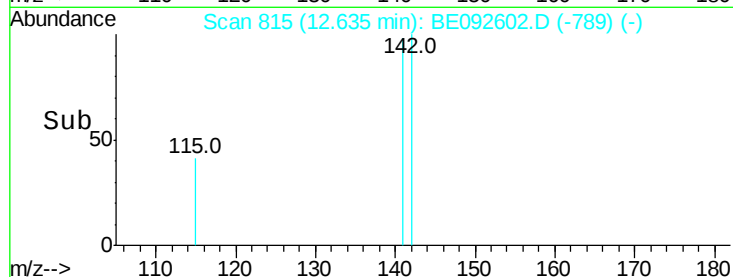
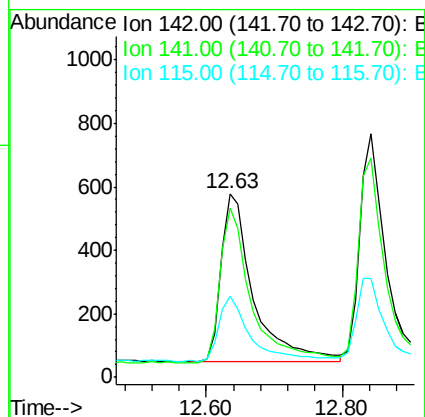
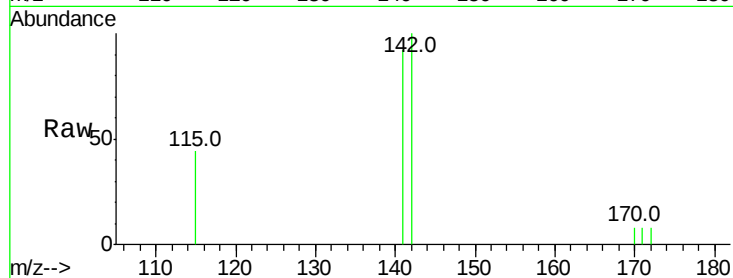
SSTDICCC0.4

Tot Ion:142 Resp: 1781

Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.7	110.5
115	44.0	34.0	51.0

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

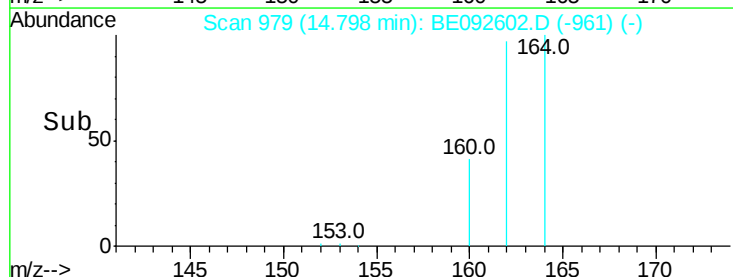
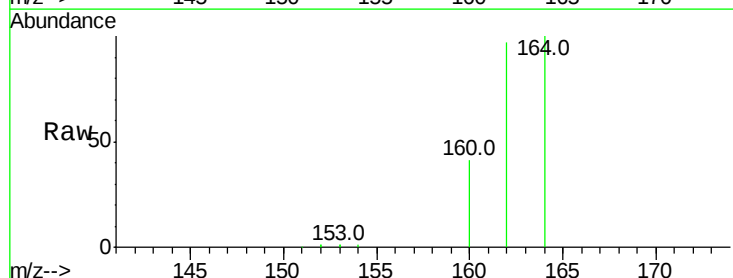
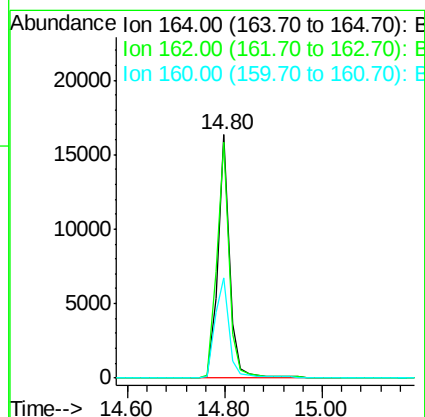
Delta R.T. 0.00 min

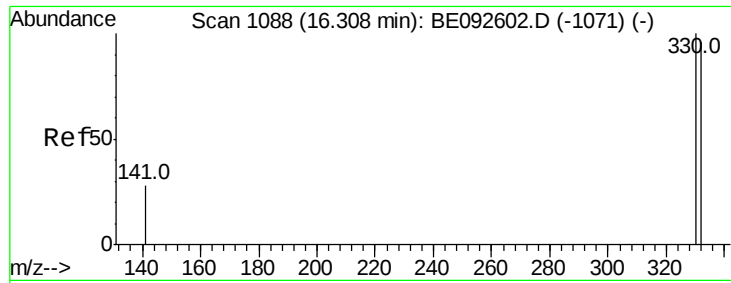
Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Tgt Ion:164 Resp: 27210

Ion	Ratio	Lower	Upper
164	100		
162	97.0	71.4	107.0
160	41.0	27.4	41.2





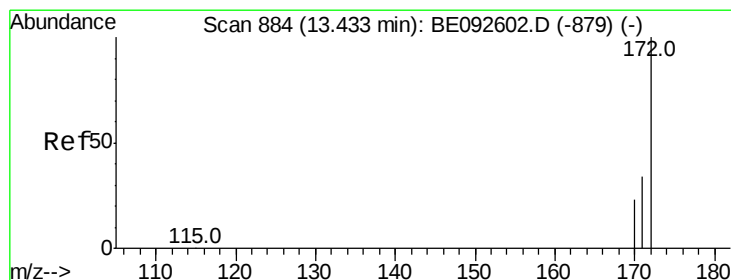
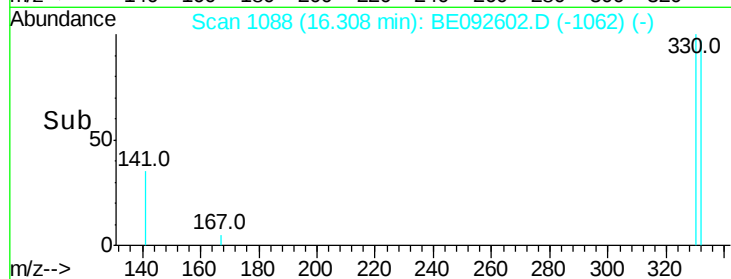
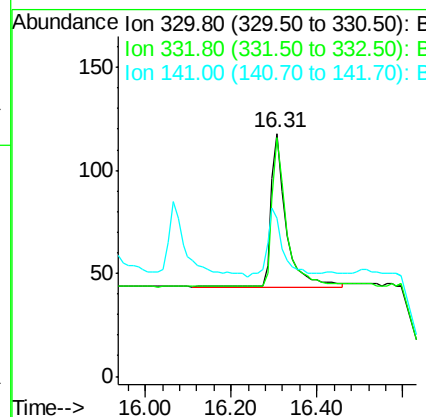
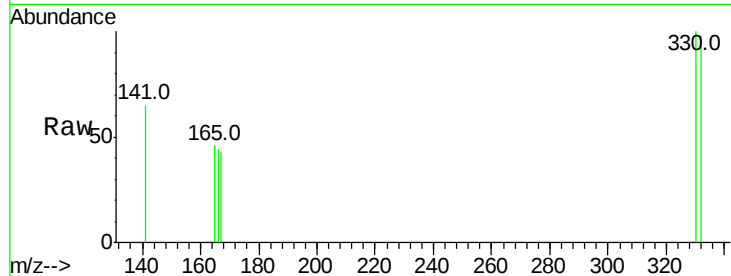
#13
 2,4,6-Tribromophenol
 Concen: 0.32 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion:330 Resp: 195
 Ion Ratio Lower Upper
 330 100
 332 96.9 75.4 113.0
 141 45.1 31.0 46.6

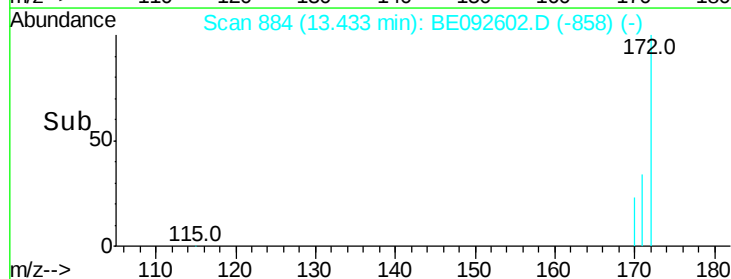
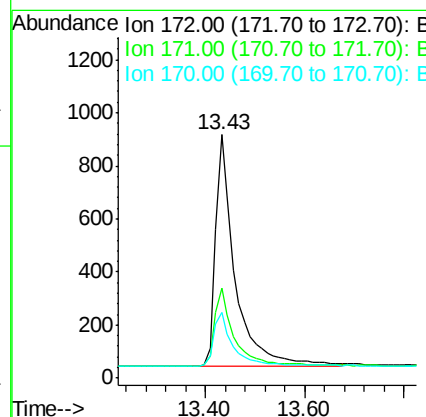
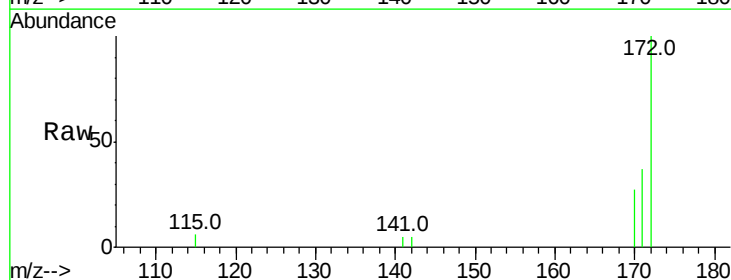
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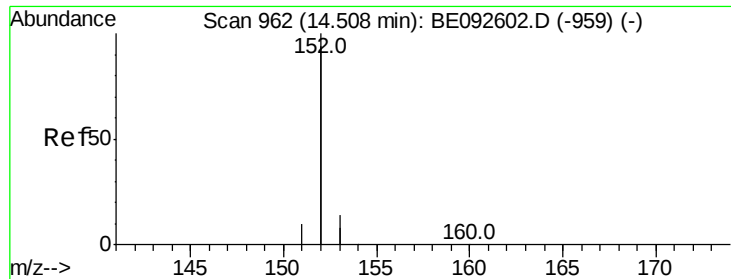
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#14
 2-Fluorobiphenyl
 Concen: 0.36 ng
 RT: 13.43 min Scan# 884
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Tgt Ion:172 Resp: 2372
 Ion Ratio Lower Upper
 172 100
 171 37.0 30.1 45.1
 170 26.9 21.8 32.6





#15

Acenaphthylene

Concen: 0.35 ng

RT: 14.51 min Scan# 962

Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Instrument :

BNA_E

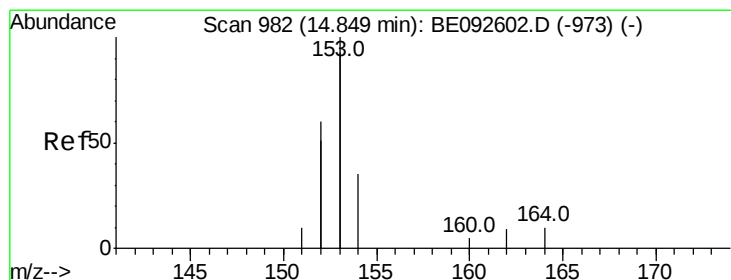
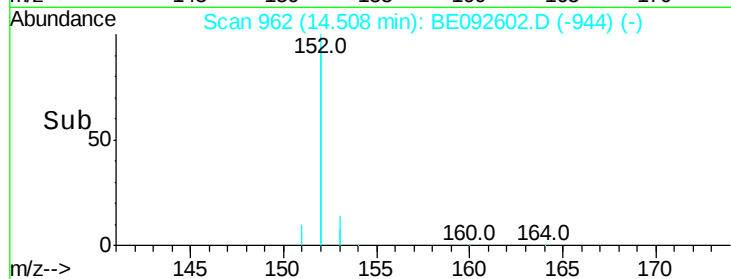
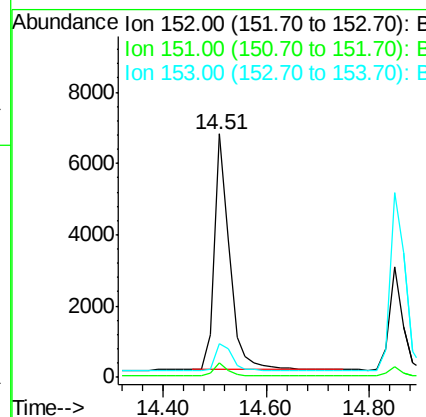
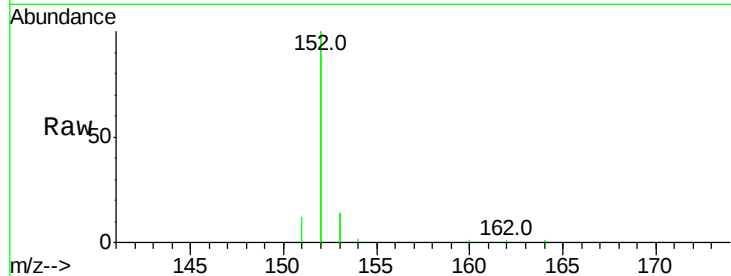
ClientSampleId :

SSTDICCC0.4

Tot Ion:	152	Resp:	13372
Ion Ratio	Lower	Upper	
152	100		
151	5.2	3.9	5.9
153	12.8	10.4	15.6

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#16

Acenaphthene

Concen: 0.37 ng

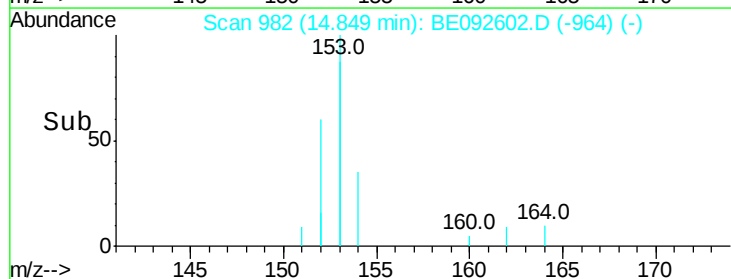
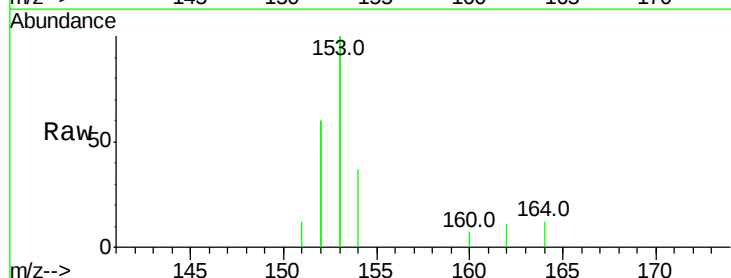
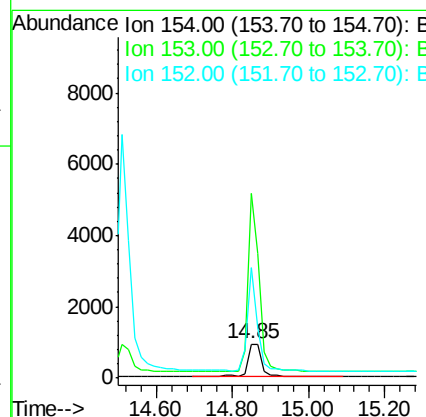
RT: 14.85 min Scan# 982

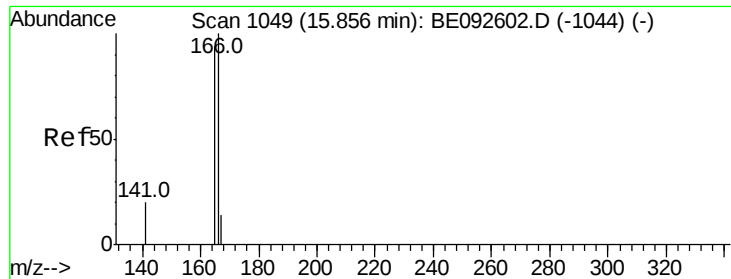
Delta R.T. 0.00 min

Lab File: BE092602.D

Acq: 19 Dec 2016 11:13

Tgt Ion:	154	Resp:	2294
Ion Ratio	Lower	Upper	
154	100		
153	439.1	350.8	526.2
152	230.9	171.1	256.7





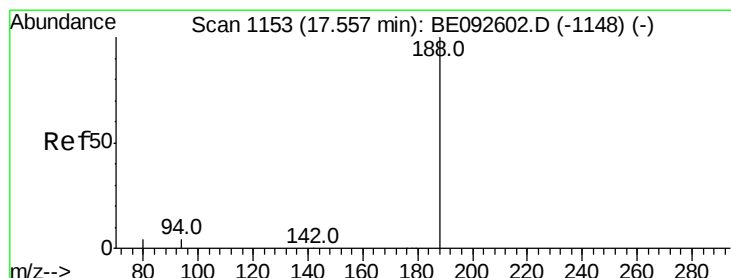
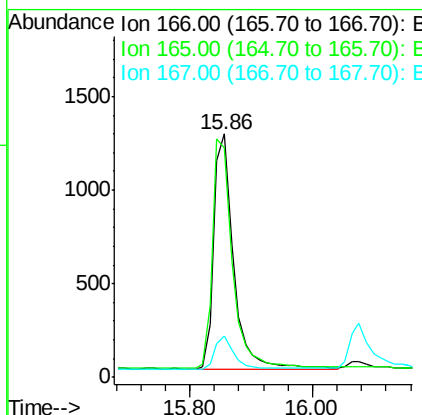
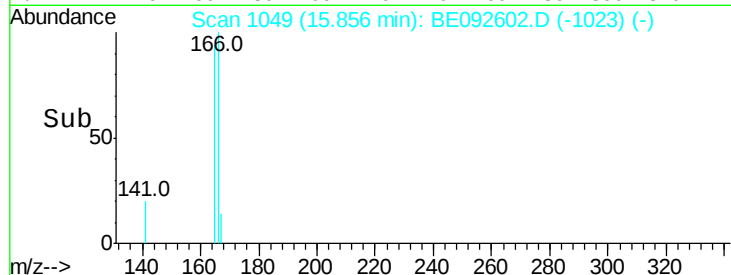
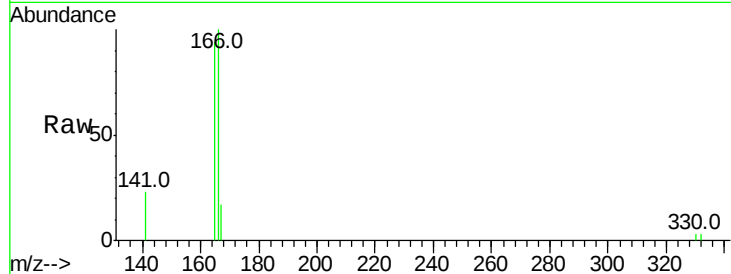
#17
Fluorene
Concen: 0.36 ng
RT: 15.86 min Scan# 1049
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.6	78.2	117.4
167	13.3	11.0	16.4

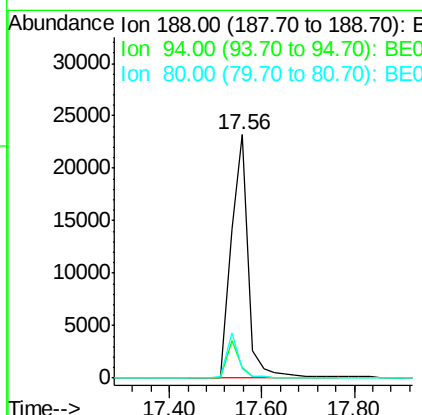
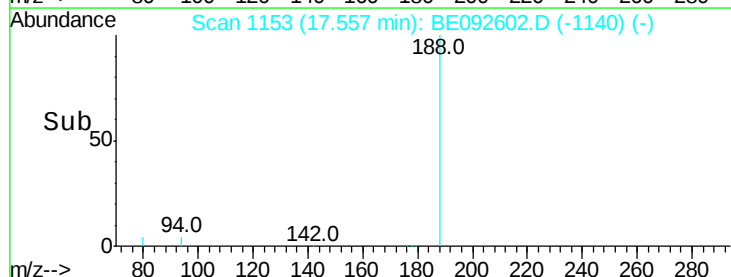
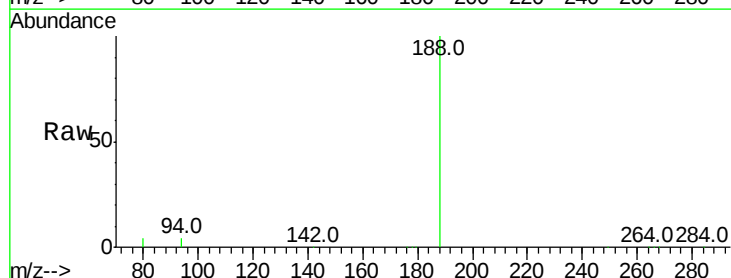
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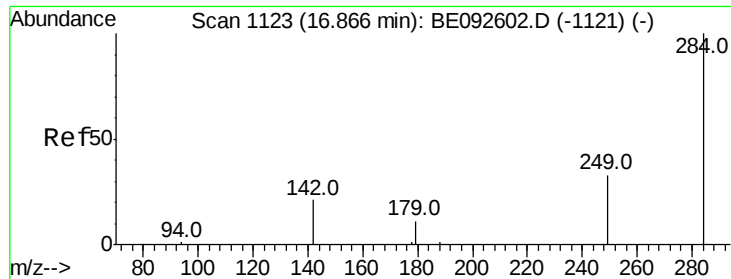
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1153
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
188	100		
94	4.2	3.2	4.8
80	3.8	2.6	3.8





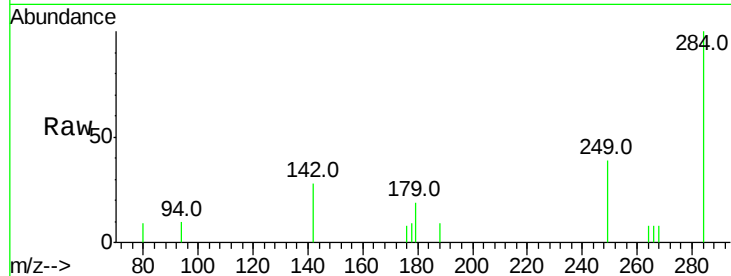
#19
Hexachlorobenzene
Concen: 0.40 ng/ml
RT: 16.87 min Scan# 1123
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

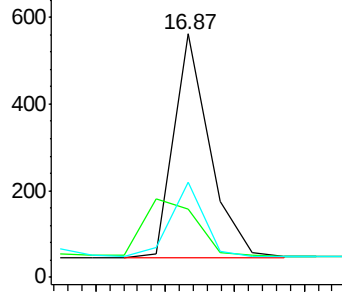
Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	46.6	27.9	41.9#

Manual Integrations
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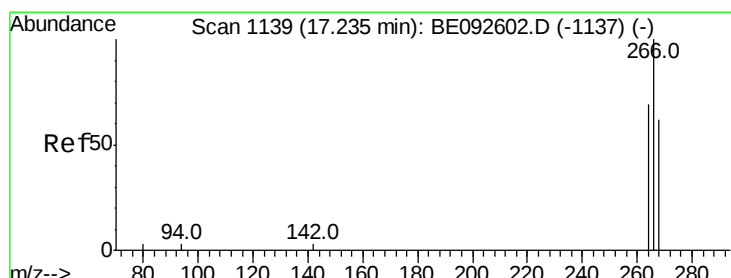
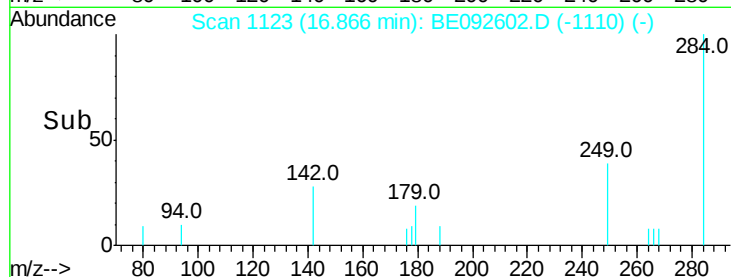
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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



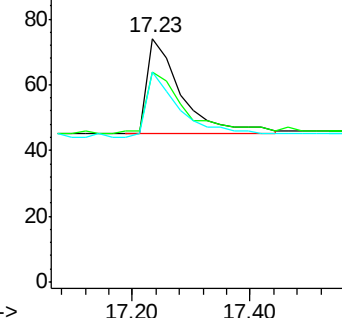
Time-->



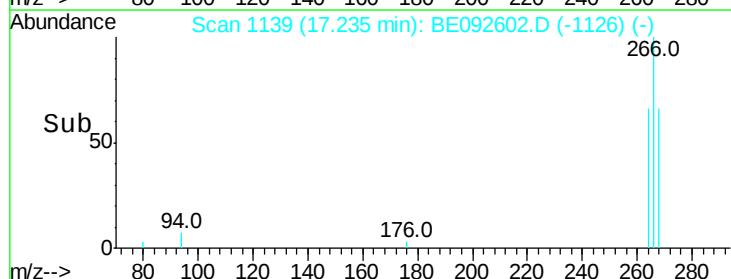
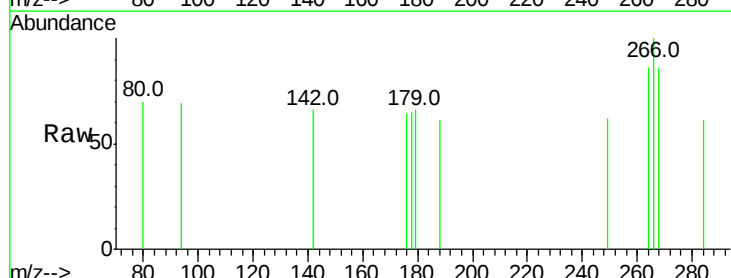
#20
Pentachlorophenol
Concen: 0.28 ng/ml
RT: 17.23 min Scan# 1139
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

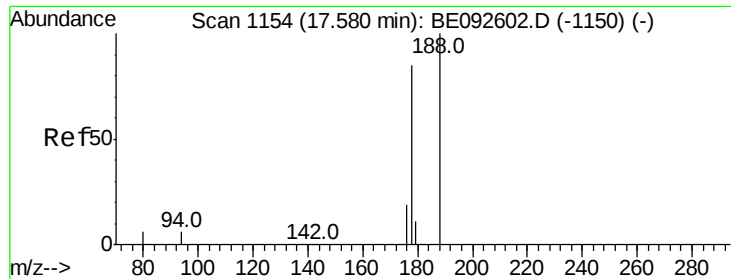
Tgt Ion	Ratio	Lower	Upper
266	100		
268	86.5	62.5	93.7
264	86.5	57.2	85.8#

Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



Time-->





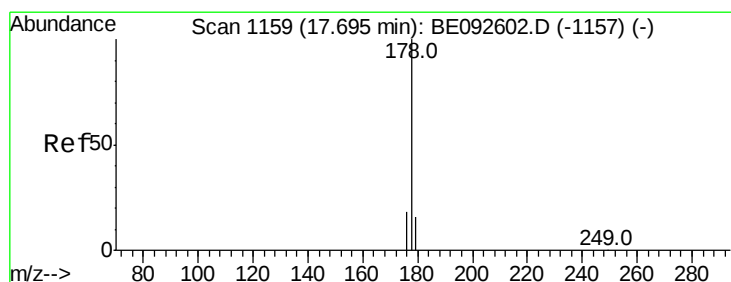
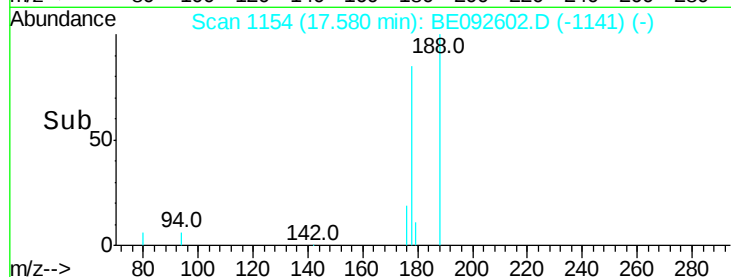
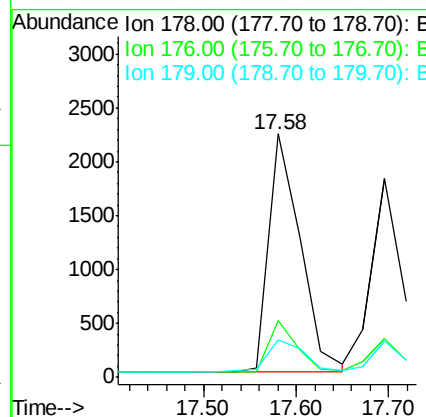
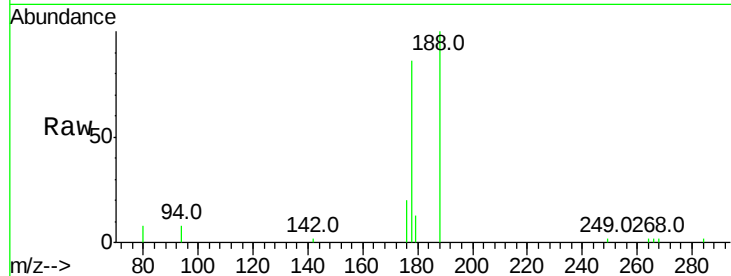
#21
Phenanthrene
Concen: 0.40 ng
RT: 17.58 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.7	16.0	24.0

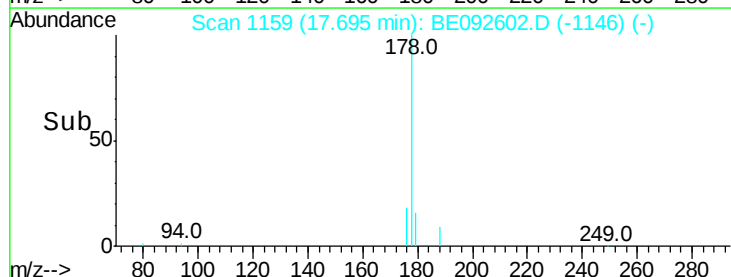
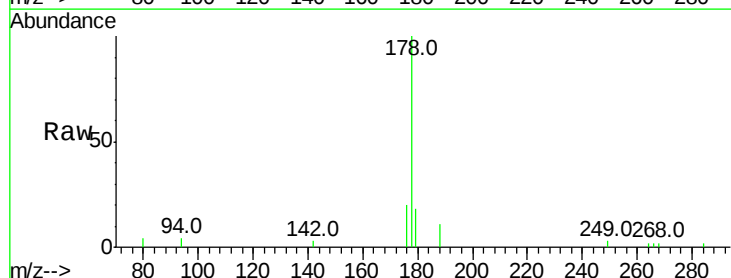
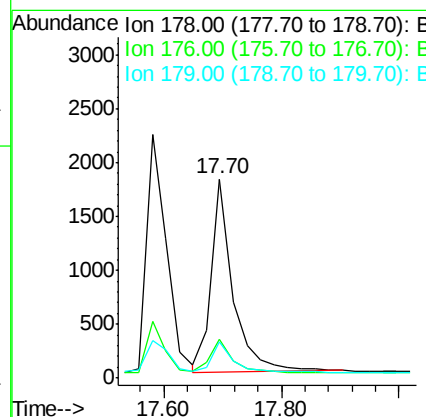
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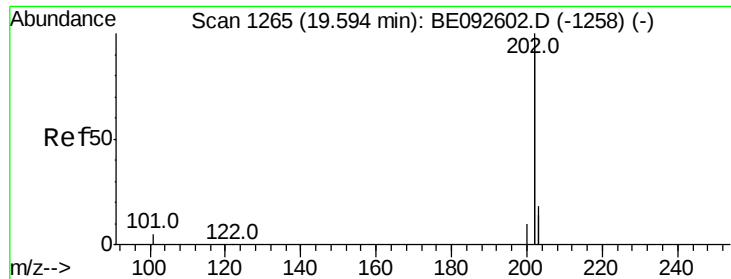
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#22
Anthracene
Concen: 0.37 ng
RT: 17.70 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	16.0	12.2	18.2





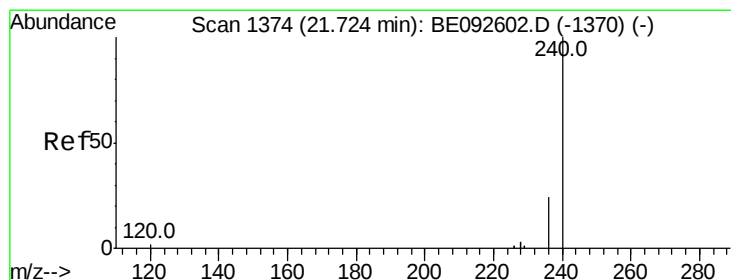
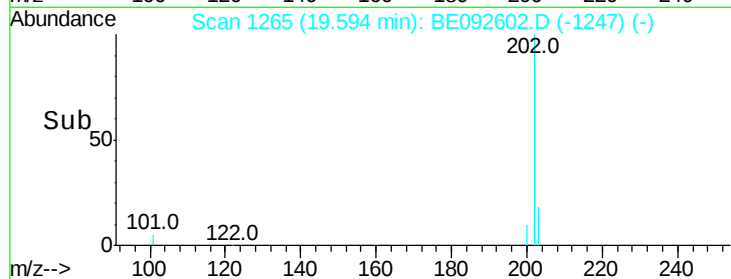
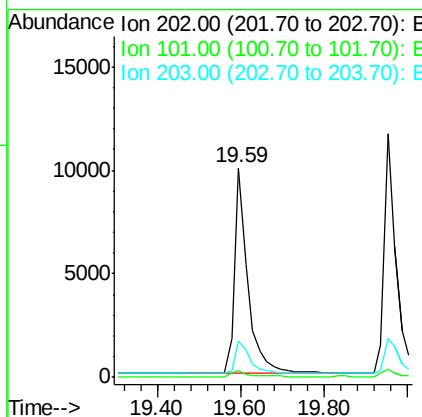
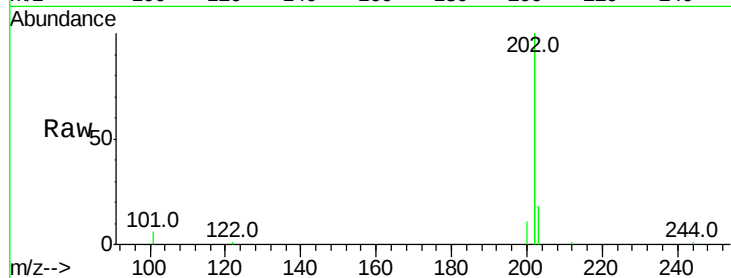
#23
Fluoranthene
 Concen: 0.37 ng
 RT: 19.59 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
202	100		
101	2.9	2.2	3.4
203	17.6	13.7	20.5

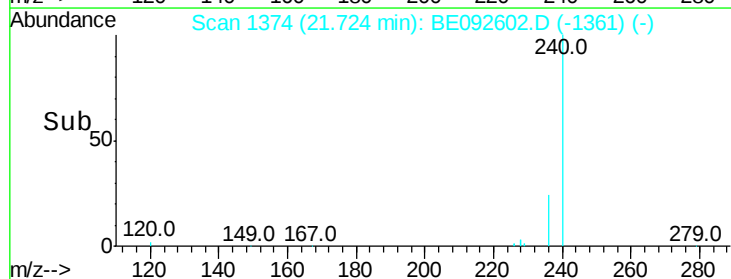
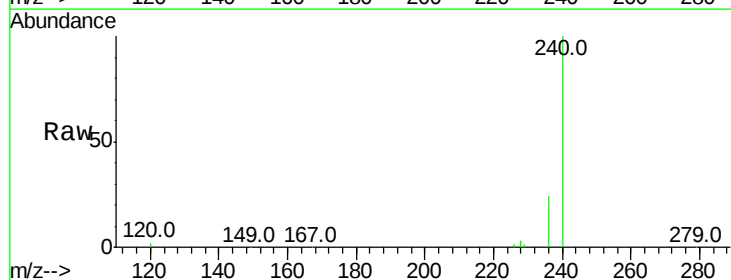
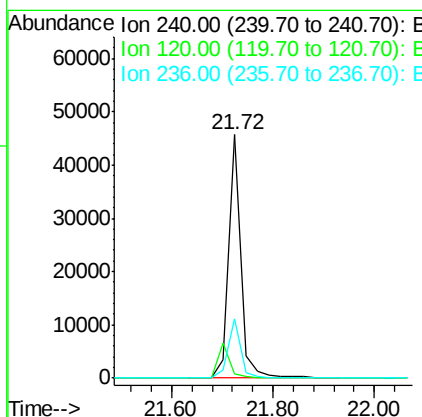
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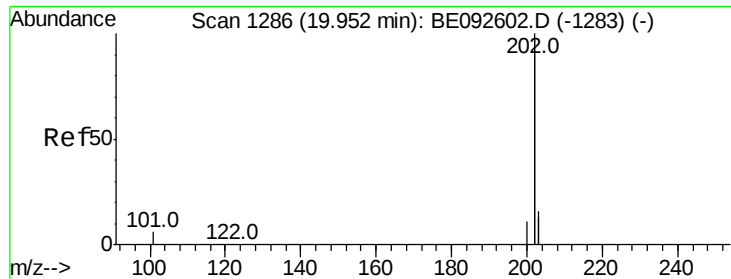
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#24
Chrysene-d12
 Concen: 5.00 ng
 RT: 21.72 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
240	100		
120	1.8	2.6	4.0#
236	24.4	24.6	37.0#





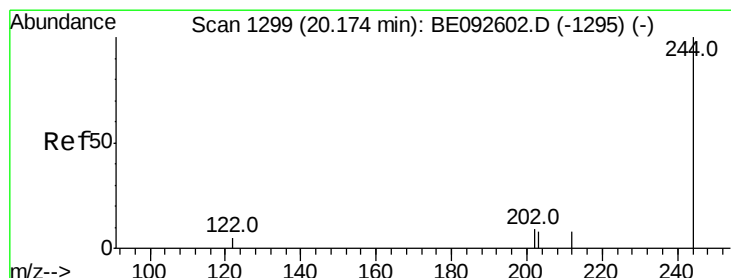
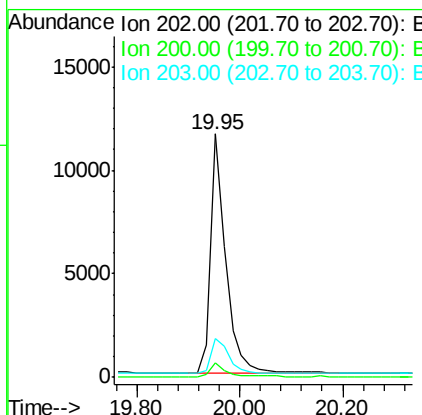
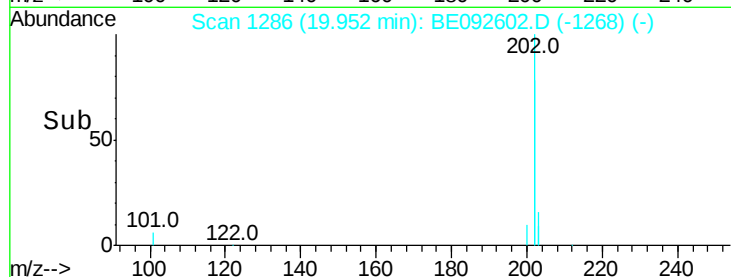
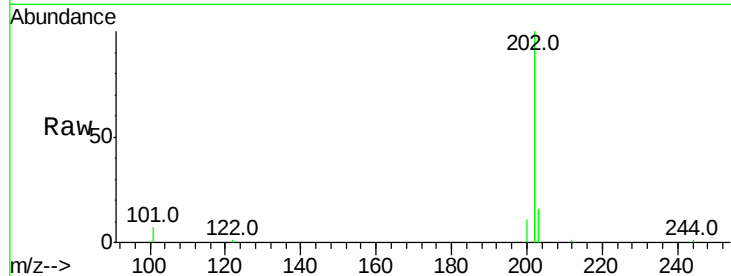
#25
Pvrene
Concen: 0.39 ng
RT: 19.95 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.2	6.4
203	17.2	13.9	20.9

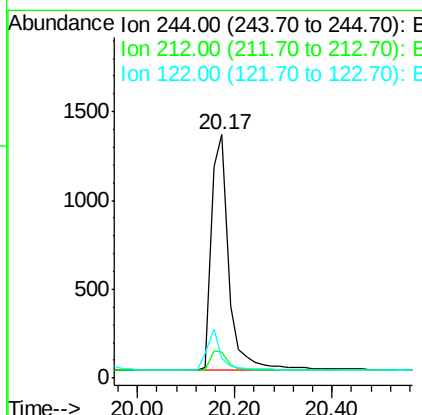
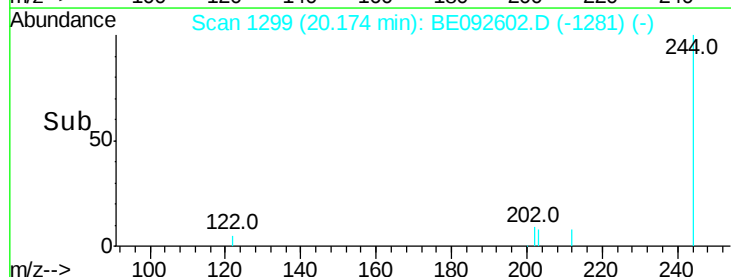
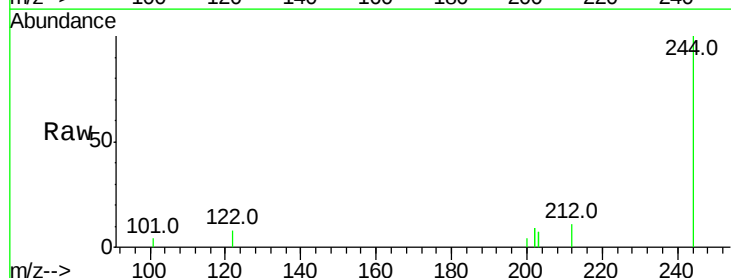
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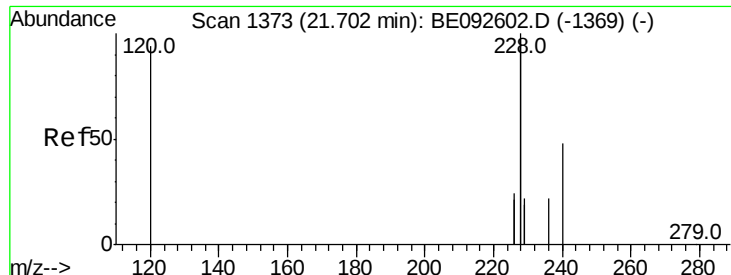
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#26
Terphenyl-d14
Concen: 0.38 ng
RT: 20.17 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.6	6.7	10.1#
122	8.3	3.6	5.4#





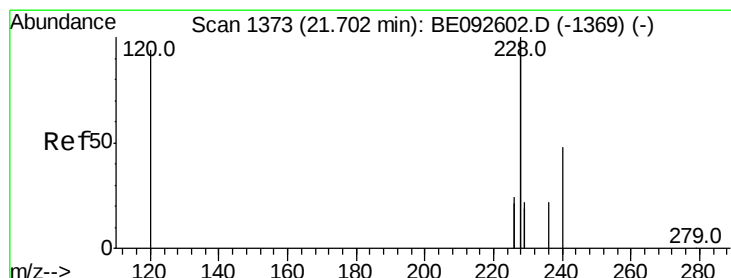
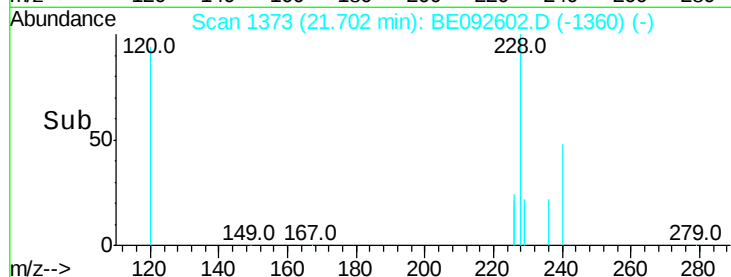
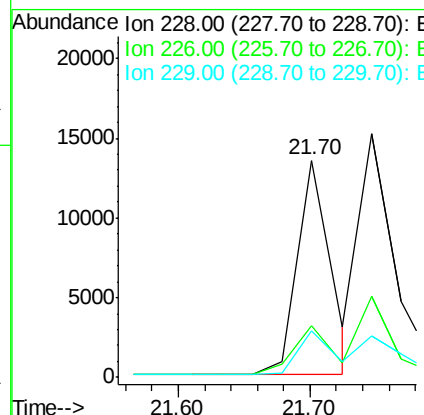
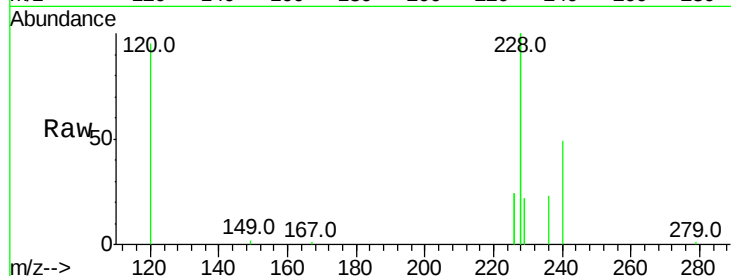
#27
Benzo(a)anthracene
Concen: 0.33 ng
RT: 21.70 min Scan# 1373
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
228	100		
226	23.7	23.6	35.4
229	21.7	13.3	19.9

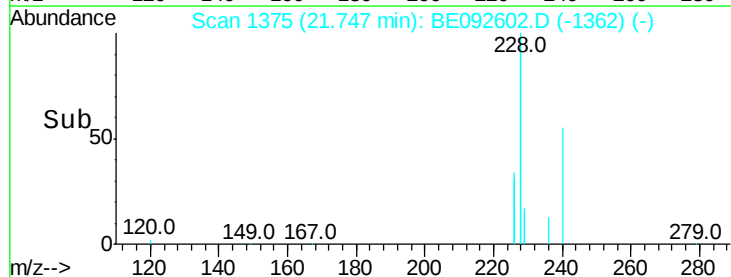
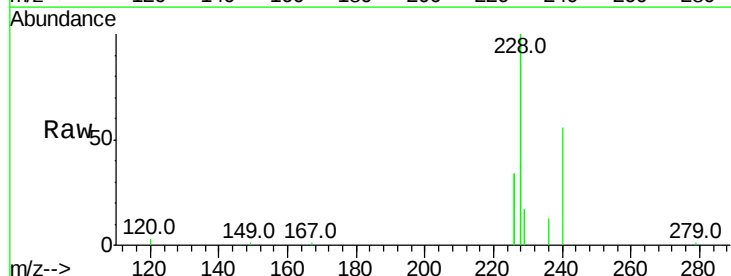
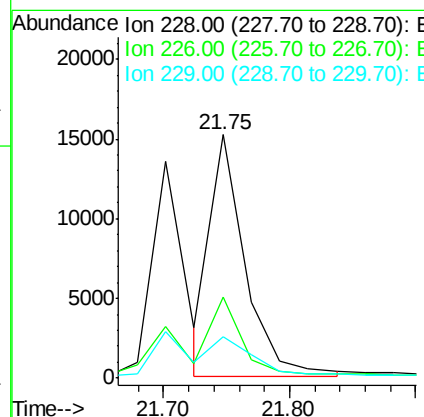
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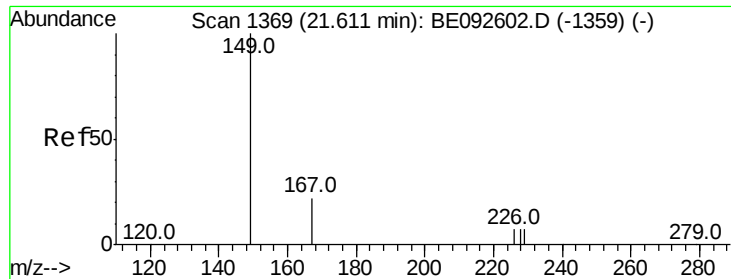
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#28
Chrysene
Concen: 0.45 ng m
RT: 21.75 min Scan# 1375
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.5	36.3	54.5
229	16.8	10.6	16.0





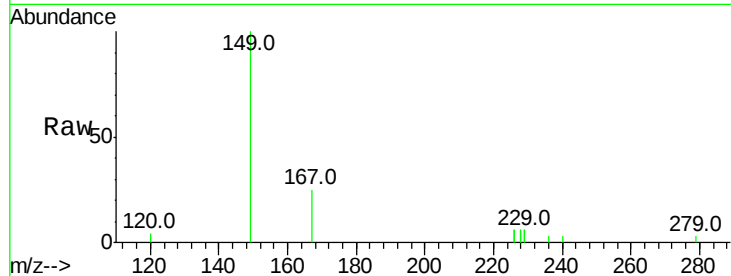
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.45 ng
 RT: 21.61 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

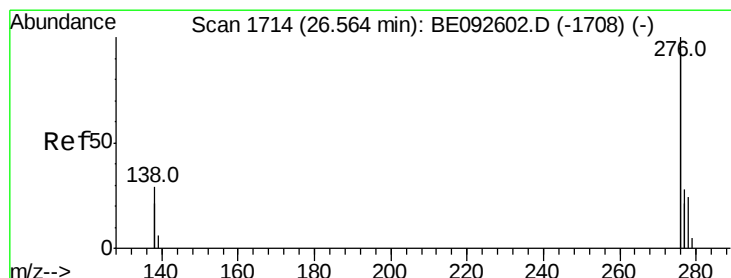
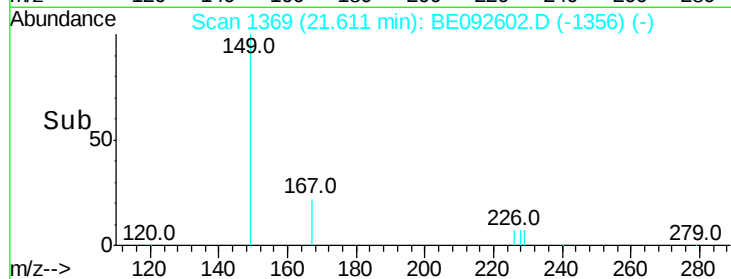
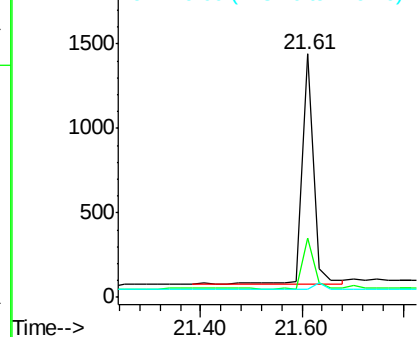
Tot Ion	Ratio	Lower	Upper
149	100		
167	22.3	16.0	24.0
279	0.0	16.0	24.0

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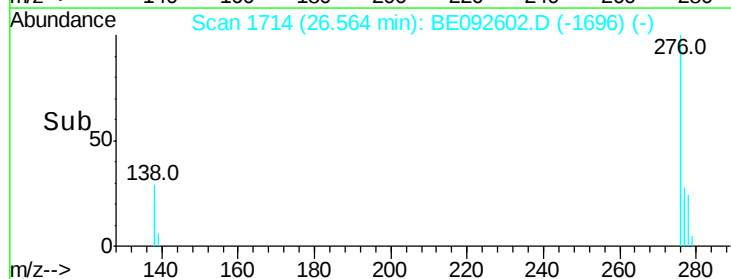
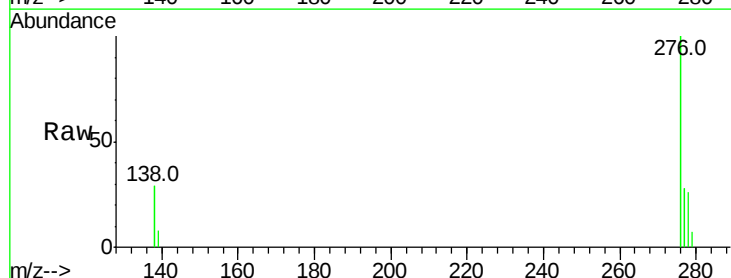
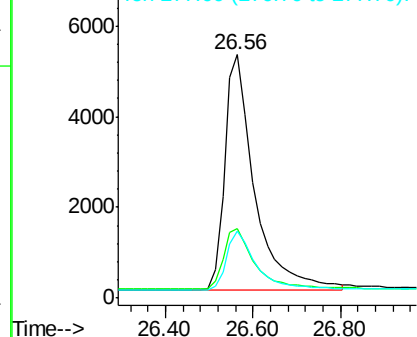
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

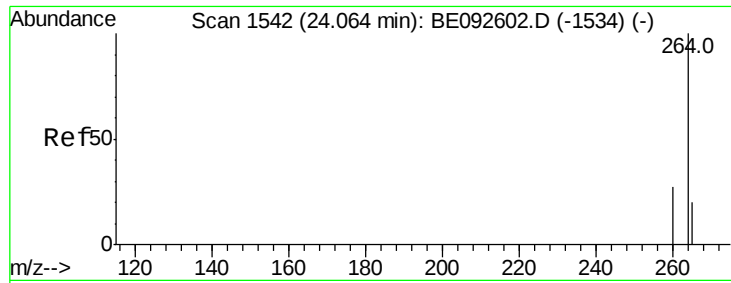


#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.34 ng
 RT: 26.56 min Scan# 1714
 Delta R.T. 0.00 min
 Lab File: BE092602.D
 Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.1	20.3	30.5
277	24.6	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





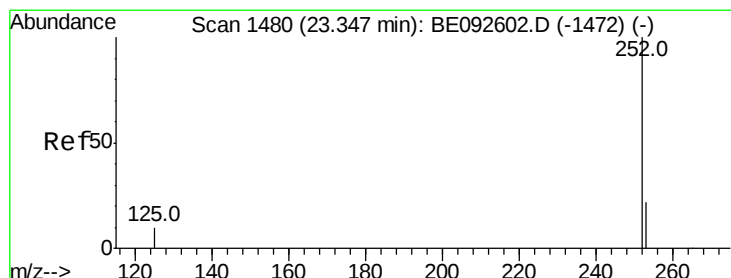
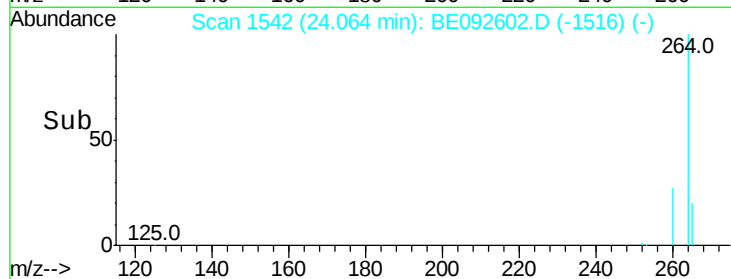
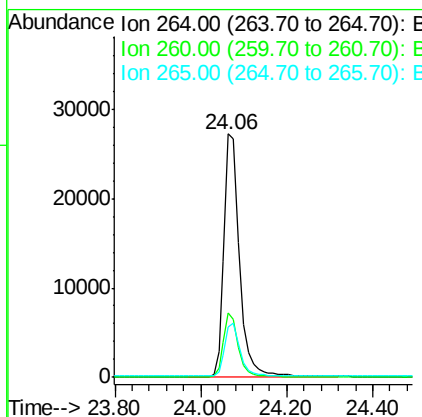
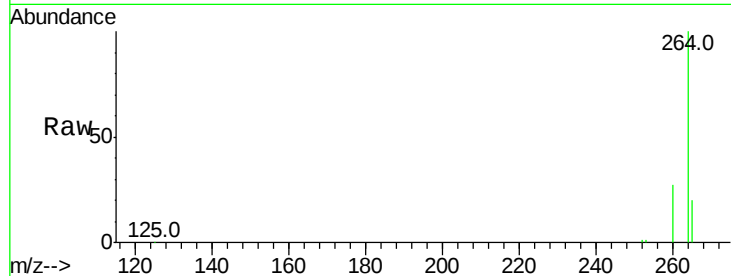
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.06 min Scan# 1542
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.1	30.1
265	20.4	17.9	26.9

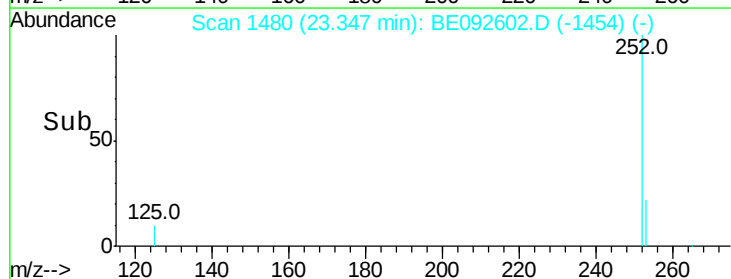
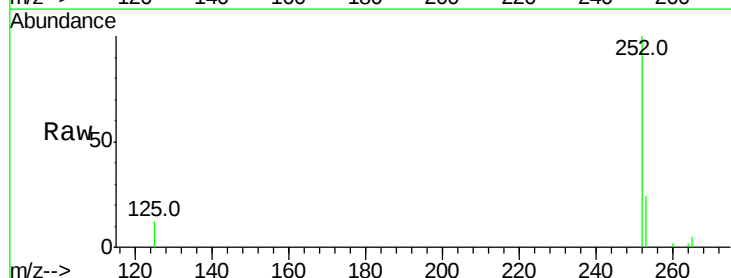
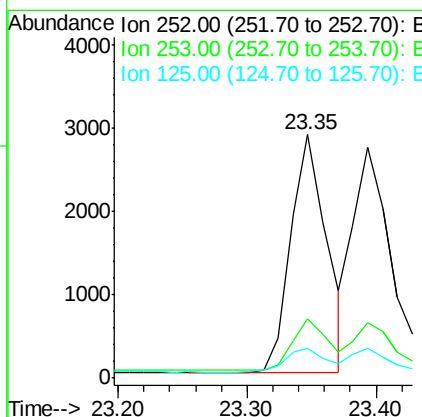
Manual Integrations
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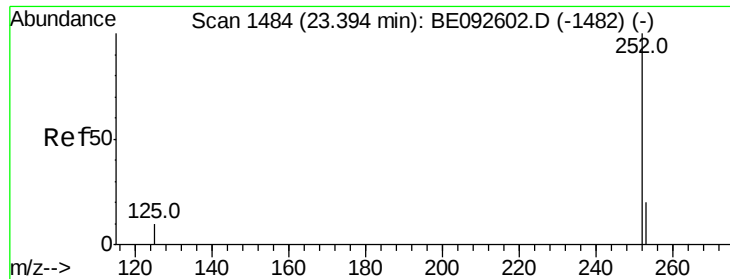
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#32
Benzo(b)fluoranthene
Concen: 0.33 ng
RT: 23.35 min Scan# 1480
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.7	28.1
125	12.2	10.5	15.7





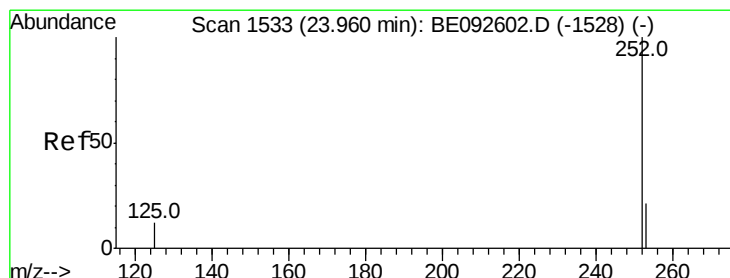
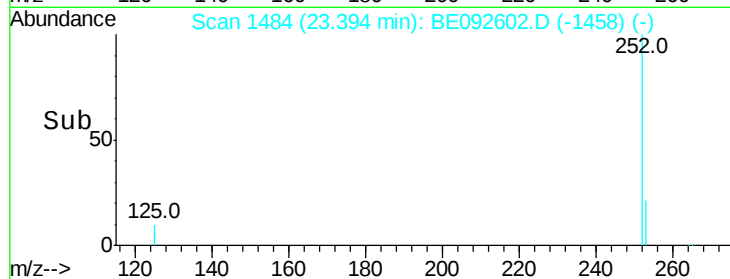
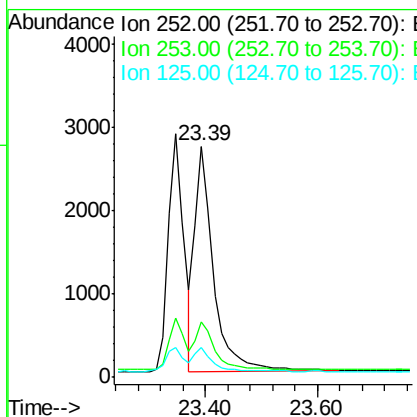
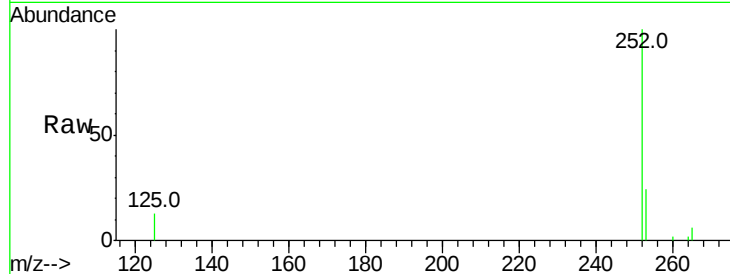
#33
Benzo(k)fluoranthene
Concen: 0.35 ng
RT: 23.39 min Scan# 1484
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	20.3	30.5
125	12.6	9.6	14.4

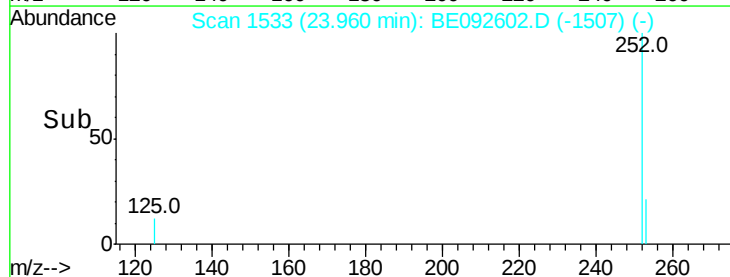
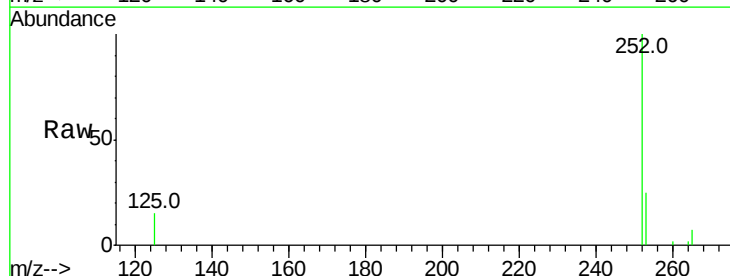
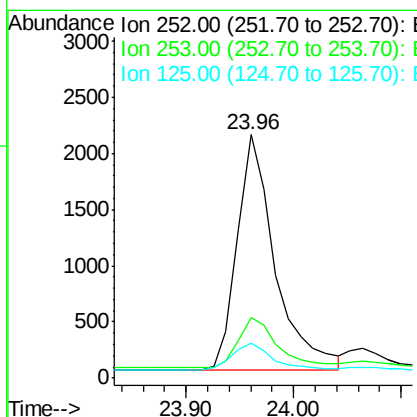
Manual Integrations
APPROVED

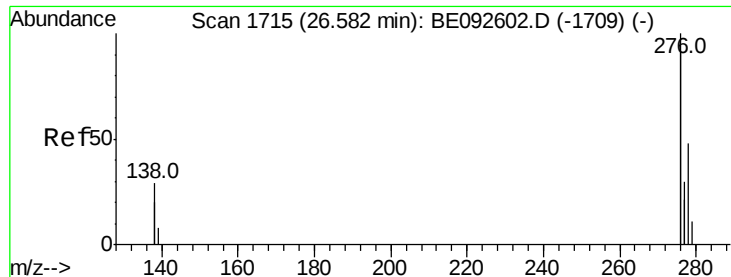
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12/20/2016 6:33:37 PM



#34
Benzo(a)pyrene
Concen: 0.33 ng
RT: 23.96 min Scan# 1533
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.0	28.6
125	14.5	11.8	17.8





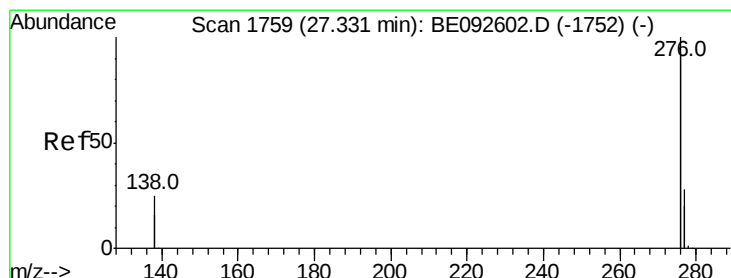
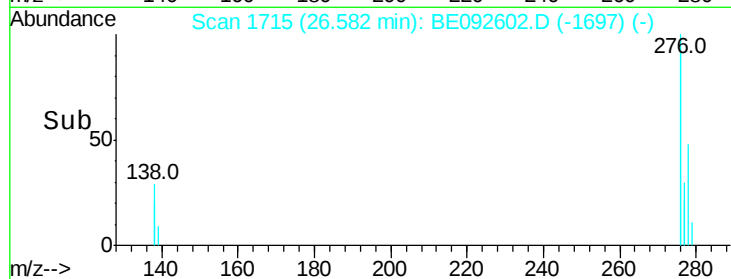
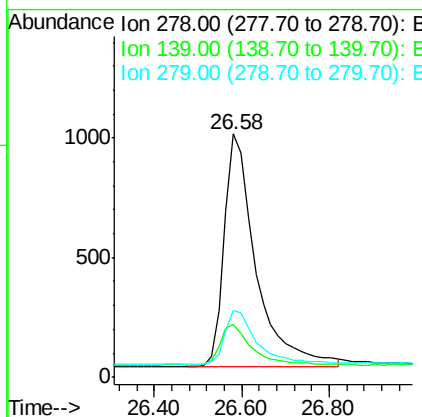
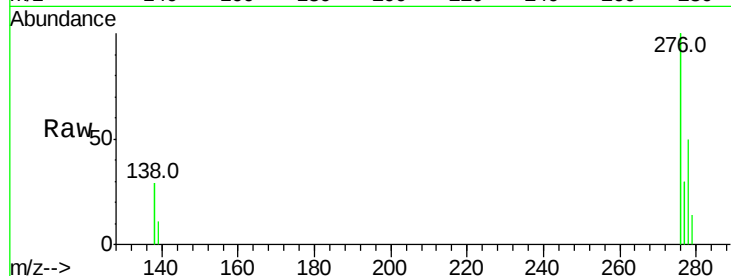
#35
Dibenzo(a,h)anthracene
Concen: 0.32 ng
RT: 26.58 min Scan# 1715
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.8	13.8	20.8#
279	27.3	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 0.34 ng
RT: 27.33 min Scan# 1759
Delta R.T. 0.00 min
Lab File: BE092602.D
Acq: 19 Dec 2016 11:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.9	19.8	29.8
138	25.2	19.8	29.6

