

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE120817\
 Data File : BE094967.D
 Acq On : 9 Dec 2017 2:12
 Operator : SJ/JU
 Sample : I6740-13
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-457S-20171204

Manual Integrations
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 12/11/2017 6:18:24 PM

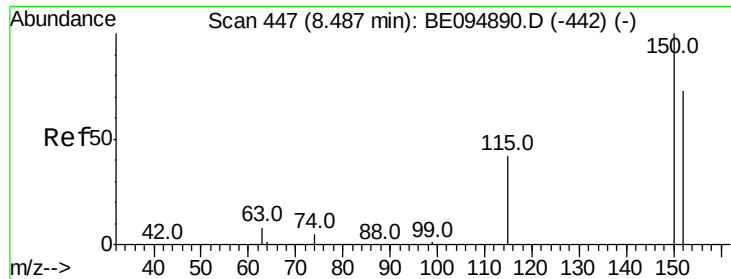
Quant Time: Dec 09 03:15:44 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.48	152	7966	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	17190	0.40	ng	0.00
13) Acenaphthene-d10	15.08	164	9665	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	23772	0.40	ng	0.00
27) Chrysene-d12	21.89	240	24750m	0.40	ng	0.00
34) Perylene-d12	24.56	264	22194	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.95	112	1854	0.15	ng	0.00
5) Phenol-d6	7.60	99	1945	0.10	ng	0.00
8) Nitrobenzene-d5	9.66	82	6076	0.60	ng	0.00
11) 2-Methylnaphthalene-d10	12.86	152	10089	0.37	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	960	0.47	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	23715	0.57	ng	0.00
25) Fluoranthene-d10	19.76	212	119762	0.37	ng	0.00
29) Terphenyl-d14	20.33	244	27831	0.61	ng	0.00

Target Compounds					Qvalue	
9) Naphthalene	11.38	128	22943m	0.114	ng	
12) 2-Methylnaphthalene	12.94	142	3835m	0.077	ng	
17) Acenaphthene	15.14	154	5891	0.167	ng	96
18) Fluorene	16.10	166	4193	0.093	ng	# 79
22) Pentachlorophenol	17.43	266	1731	0.537	ng	# 75
23) Phenanthrene	17.82	178	8815	0.116	ng	97
24) Anthracene	17.91	178	5453	0.068	ng	# 84
26) Fluoranthene	19.79	202	6169	0.063	ng	99
28) Pyrene	20.14	202	4245	0.050	ng	# 93
30) Benzo(a)anthracene	21.85	228	3844	0.051	ng	# 65
31) Chrysene	21.92	228	4168m	0.050	ng	
32) Bis(2-ethylhexyl)phthalate	21.75	149	11401	0.091	ng	# 98
33) Indeno(1,2,3-cd)pyrene	27.43	276	3184	0.046	ng	# 92
35) Benzo(b)fluoranthene	23.73	252	3665	0.045	ng	# 54
36) Benzo(k)fluoranthene	23.78	252	3084	0.037	ng	# 52
37) Benzo(a)pyrene	24.44	252	3093	0.044	ng	# 60
38) Dibenzo(a,h)anthracene	27.46	278	2598	0.040	ng	# 59
39) Benzo(a,h,i)perylene	28.31	276	2865	0.044	ng	# 62

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



#1

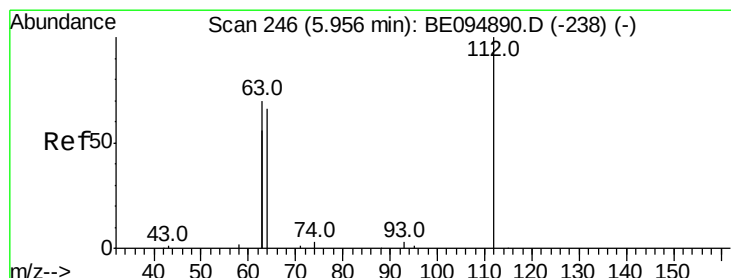
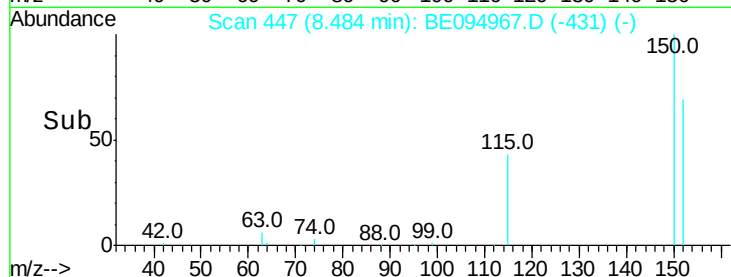
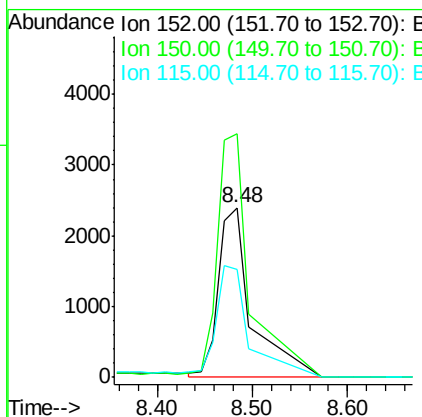
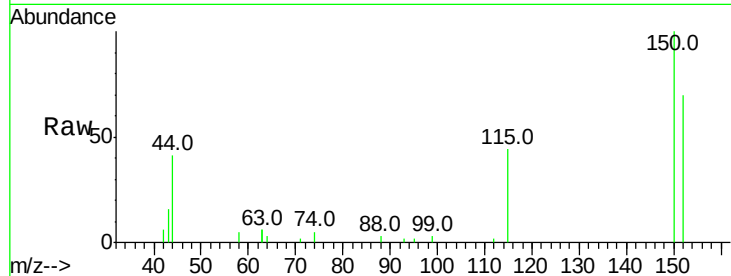
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.48 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Instrument :
BNA_E
ClientSampleId :
FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
152	100		
150	143.5	117.2	175.8
115	63.4	57.0	85.6

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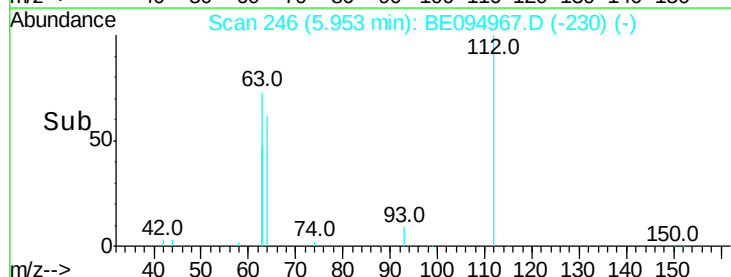
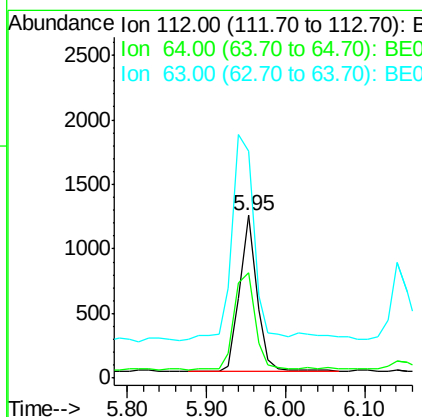
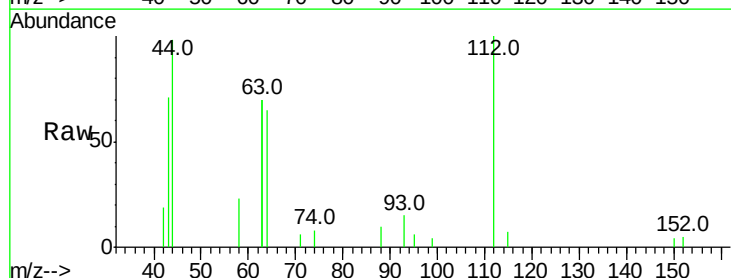
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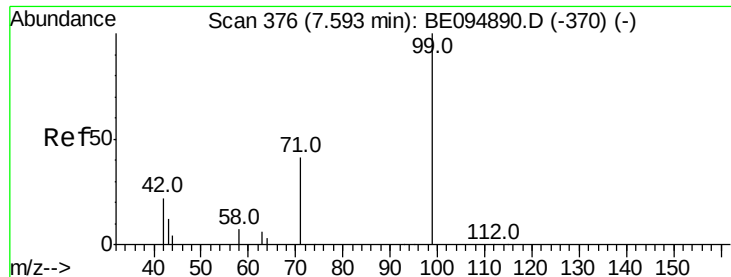


#4

2-Fluorophenol
Concen: 0.147 ng
RT: 5.95 min Scan# 246
Delta R.T. -0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	74.7	60.1	90.1
63	168.4	116.8	175.2





#5

Phenol-d6

Concen: 0.104 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Instrument :

BNA_E

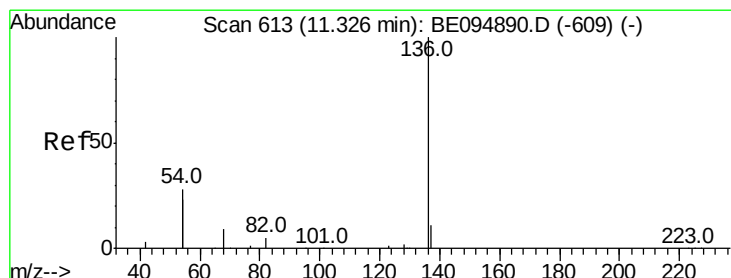
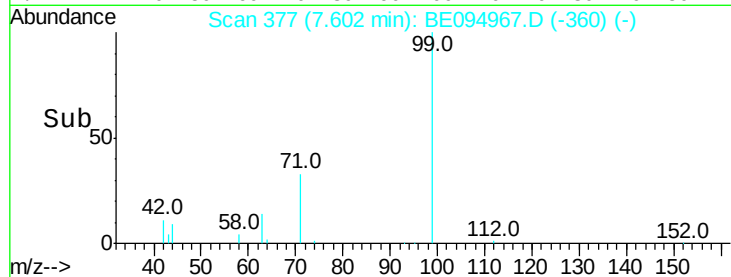
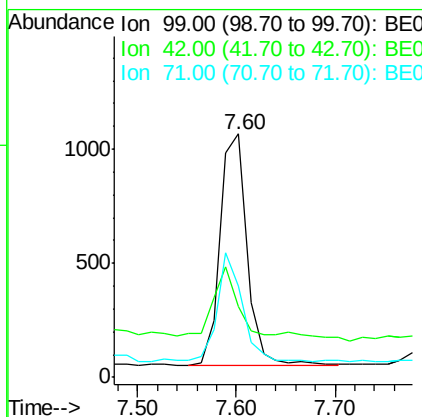
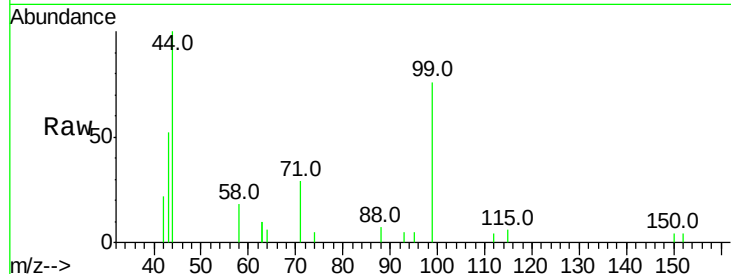
ClientSampleId :

FT-PZ-457S-20171204

Tot Ion:	99	Resp:	1945
Ion	Ratio	Lower	Upper
99	100		
42	24.8	20.2	30.2
71	44.2	28.4	42.6#

Manual Integrations
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#7

Naphthalene-d8

Concen: 0.400 ng

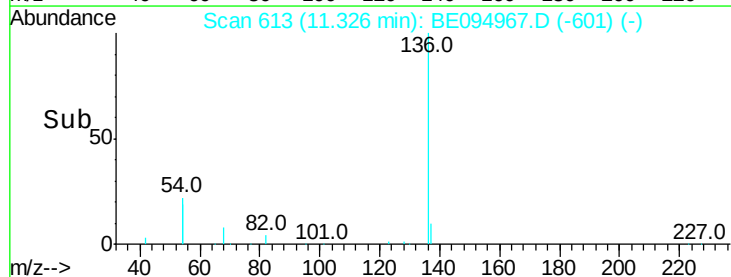
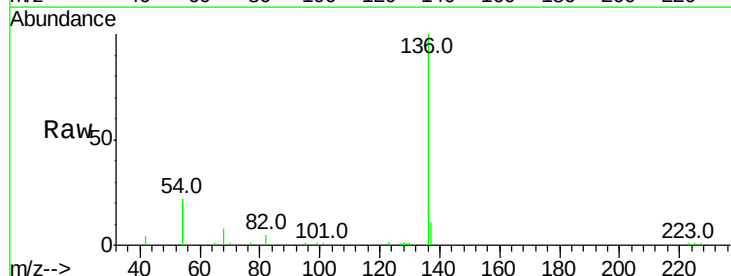
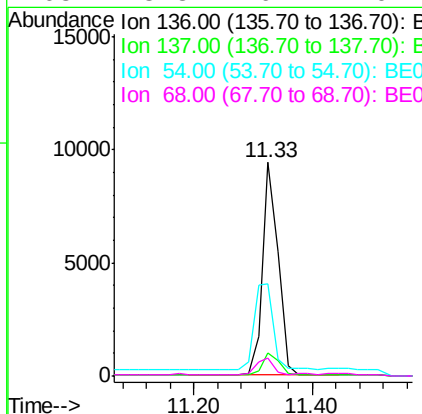
RT: 11.33 min Scan# 613

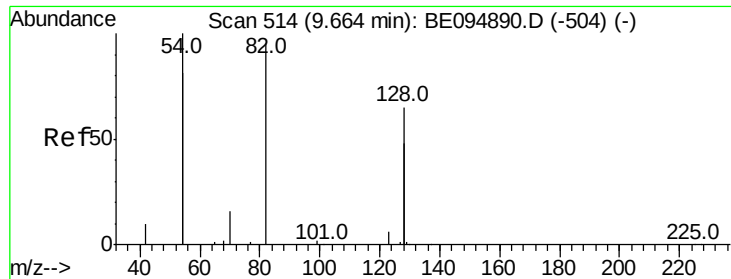
Delta R.T. -0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Tgt Ion:	136	Resp:	17190
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.5	14.3
54	43.0	29.1	43.7
68	8.3	6.2	9.2





#8

Nitrobenzene-d5

Concen: 0.597 ng

RT: 9.66 min Scan# 514

Delta R.T. -0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Instrument :

BNA_E

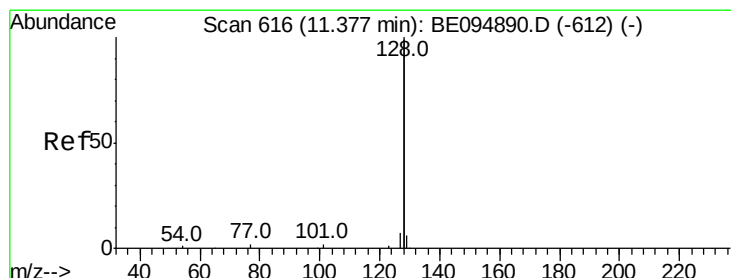
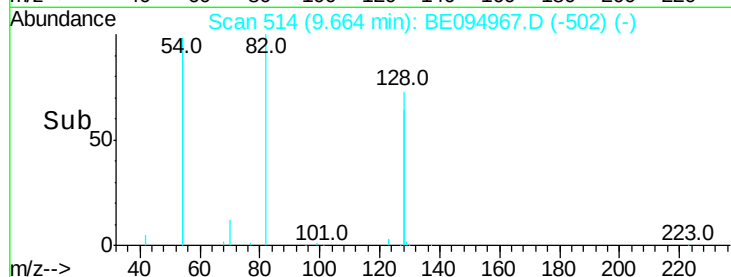
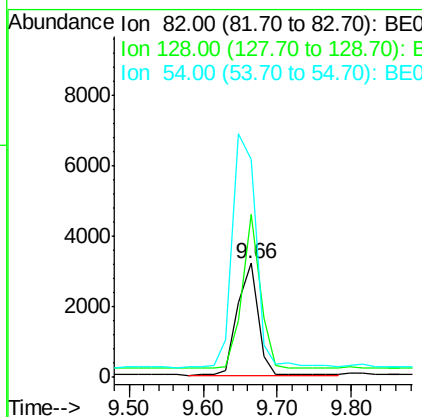
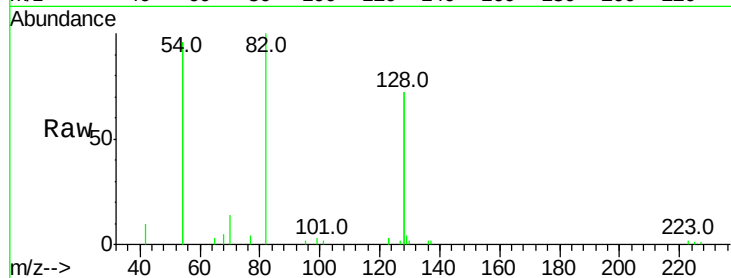
ClientSampleId :

FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
82	100		
128	143.2	150.0	225.0#
54	191.6	154.2	231.4

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#9

Naphthalene

Concen: 0.114 ng m

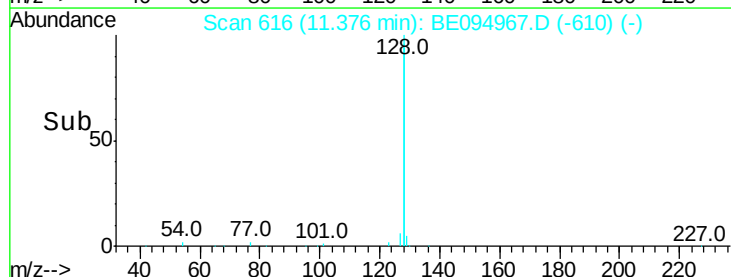
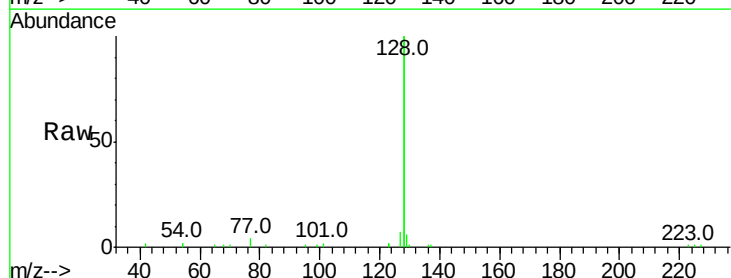
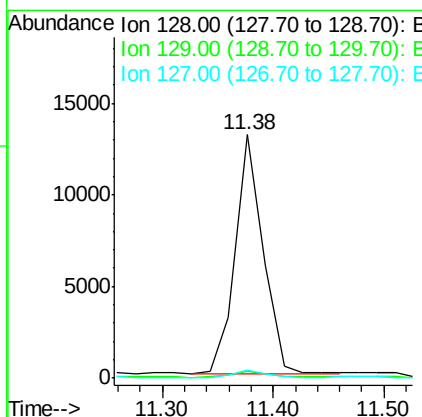
RT: 11.38 min Scan# 616

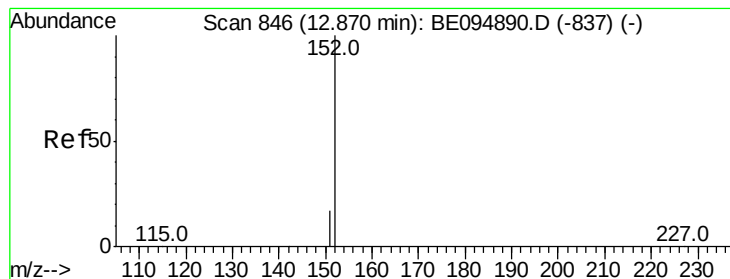
Delta R.T. -0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
128	100		
129	5.7	2.6	3.8#
127	7.1	2.8	4.2#





#11

2-Methylnaphthalene-d10

Concen: 0.368 ng

RT: 12.86 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Instrument :

BNA_E

ClientSampleId :

FT-PZ-457S-20171204

Tot Ion:152 Resp: 10089

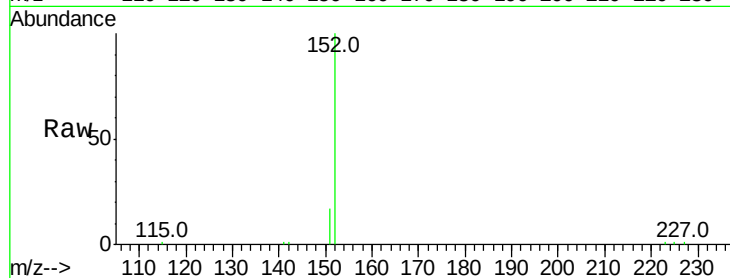
Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.0

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.86

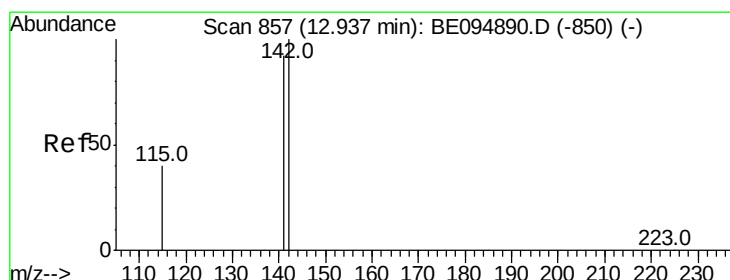
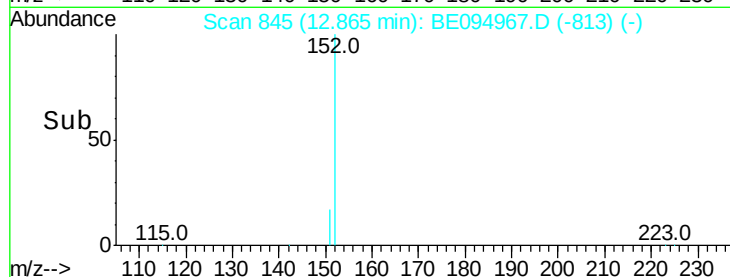
6000

4000

2000

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.077 ng m

RT: 12.94 min Scan# 857

Delta R.T. 0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

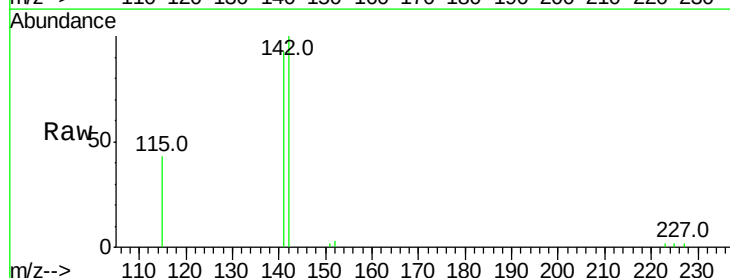
Tgt Ion:142 Resp: 3835

Ion Ratio Lower Upper

142 100

141 92.7 70.4 105.6

115 42.9 31.7 47.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

12.94

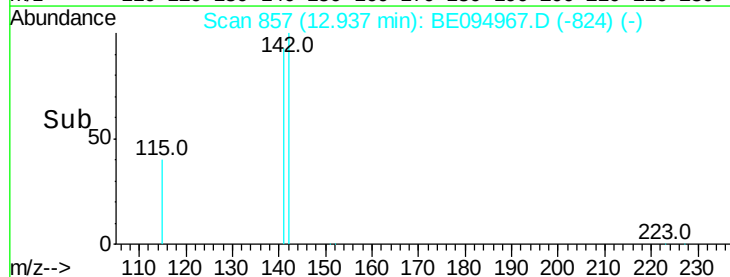
3000

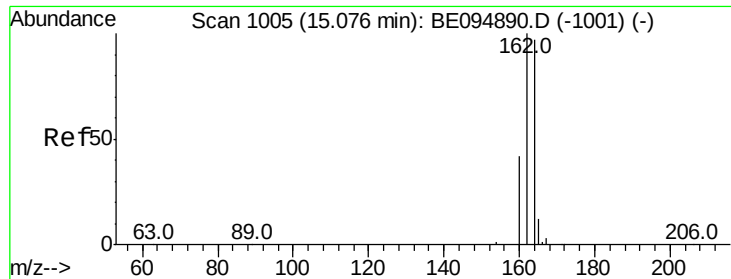
2000

1000

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.08 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Instrument :

BNA_E

ClientSampleId :

FT-PZ-457S-20171204

Tot Ion:164 Resp: 9665

Ion Ratio Lower Upper

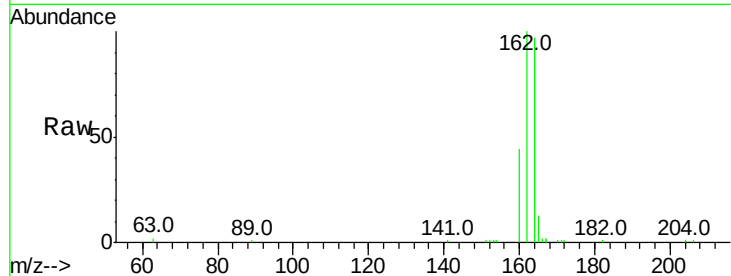
164 100

162 103.1 83.1 124.7

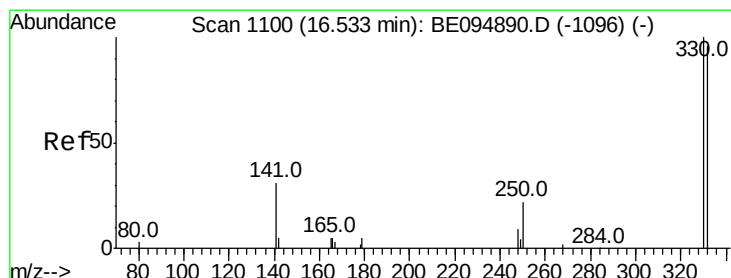
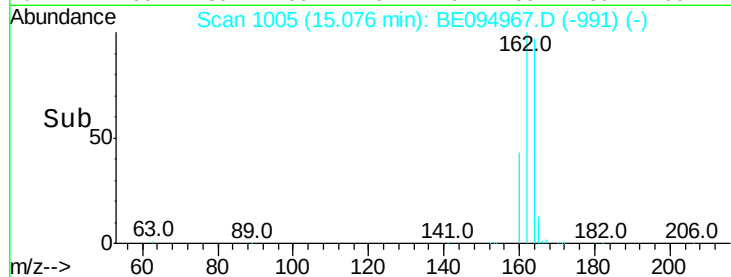
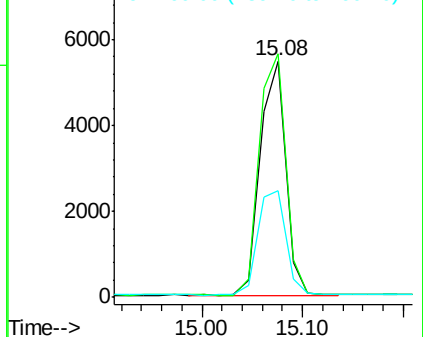
160 45.0 37.1 55.7

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.471 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

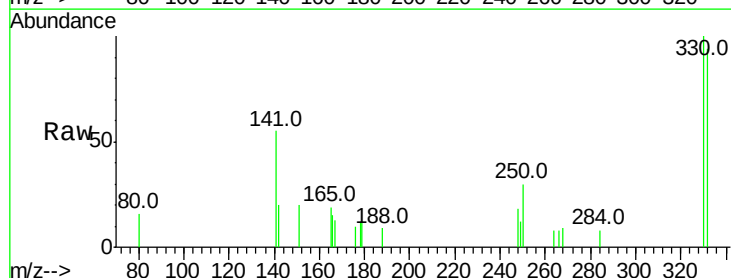
Tgt Ion:330 Resp: 960

Ion Ratio Lower Upper

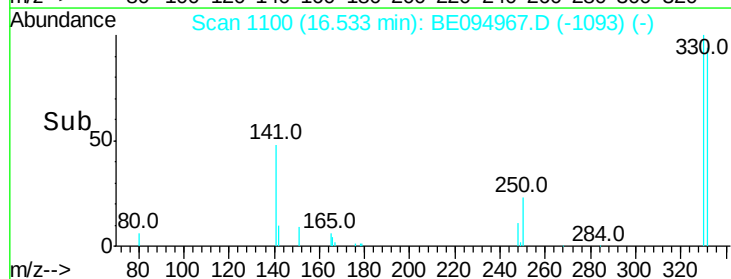
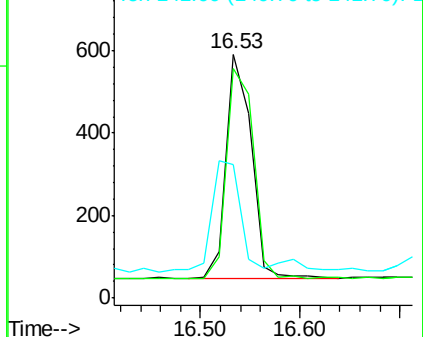
330 100

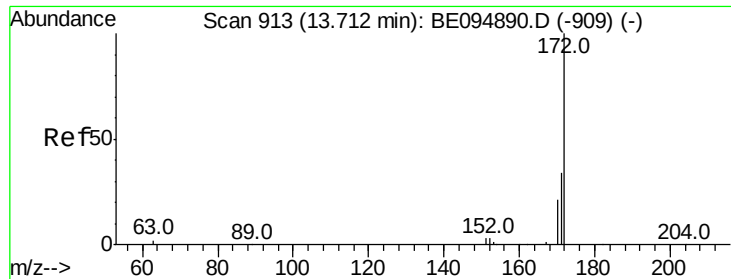
332 100.5 152.7 229.1#

141 56.6 33.7 50.5#



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





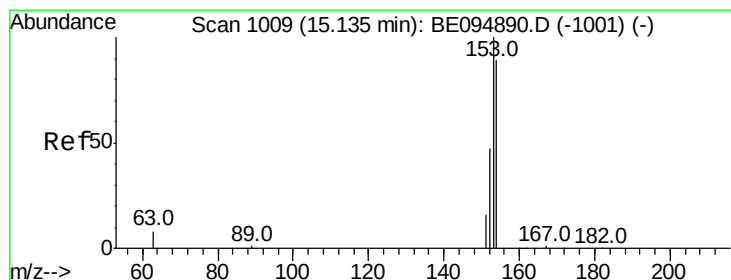
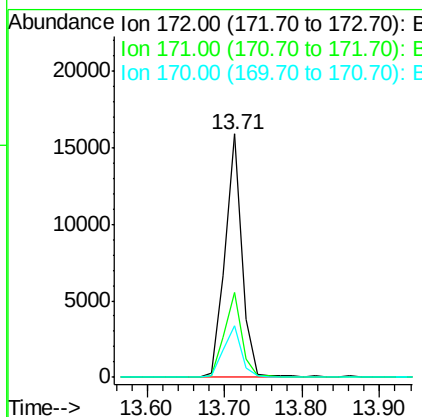
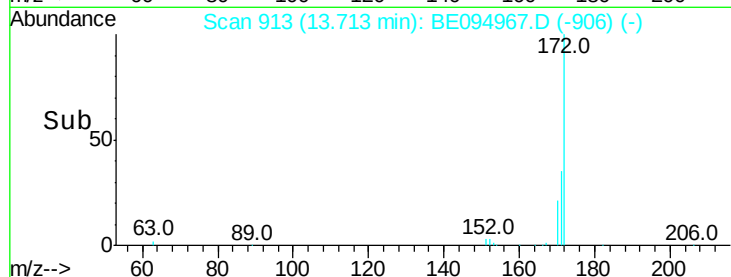
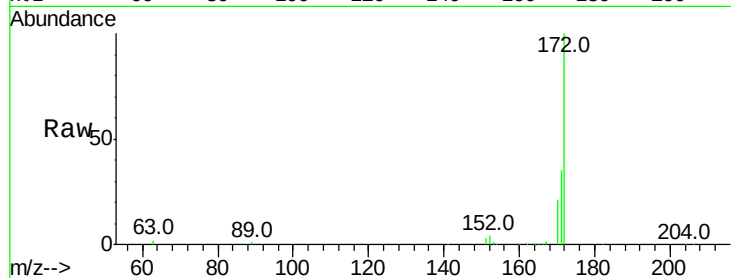
#15
2-Fluorobiphenyl
Concen: 0.573 ng
RT: 13.71 min Scan# 913
Delta R.T. 0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Instrument :
BNA_E
ClientSampleId :
FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.9	44.9
170	21.4	21.8	32.8

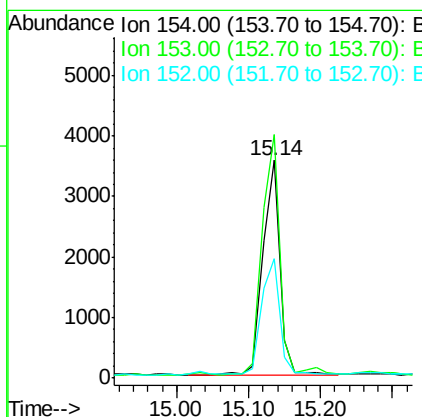
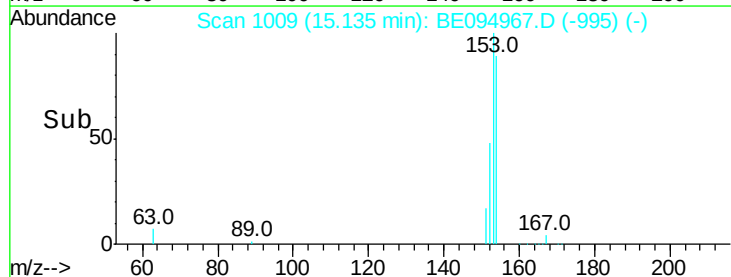
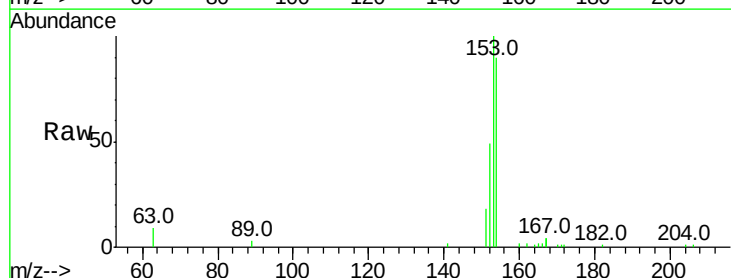
Manual Integrations
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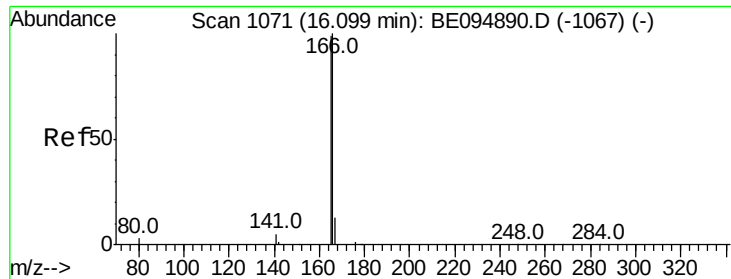
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#17
Acenaphthene
Concen: 0.167 ng
RT: 15.14 min Scan# 1009
Delta R.T. 0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.7	89.2	133.8
152	57.5	42.0	63.0





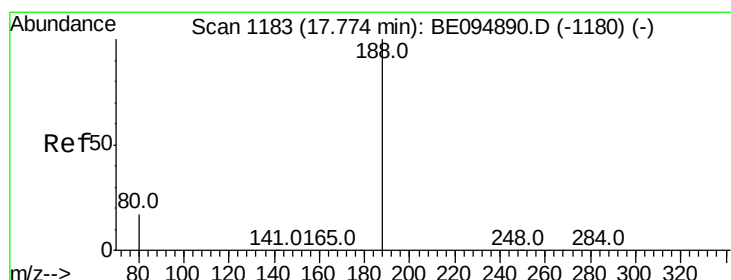
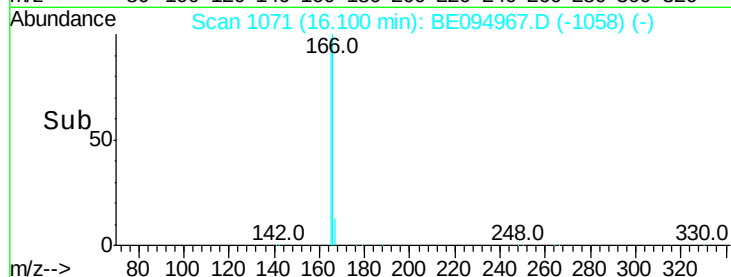
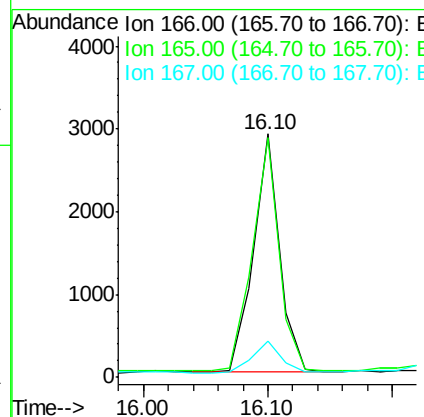
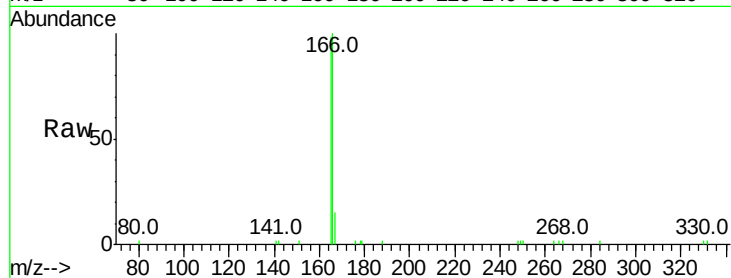
#18
Fluorene
 Concen: 0.093 ng
 RT: 16.10 min Scan# 1071
 Delta R.T. 0.00 min
 Lab File: BE094967.D
 Acq: 9 Dec 2017 2:12

Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.8	77.8	116.6
167	14.6	42.4	63.6#

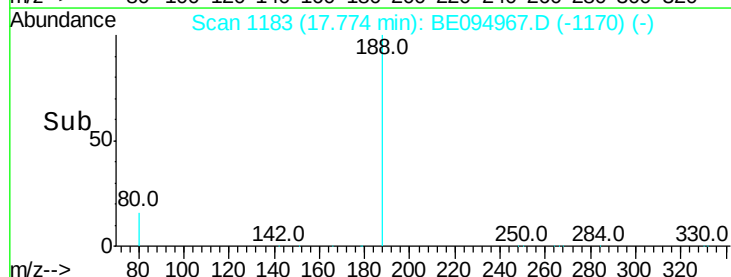
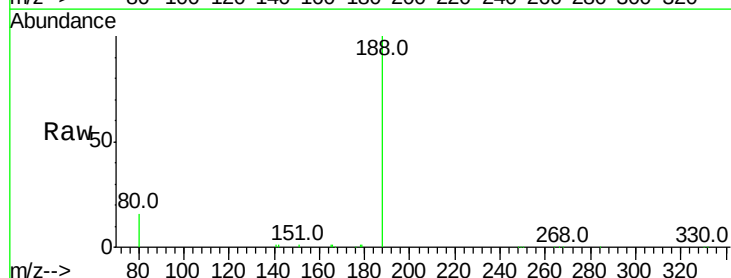
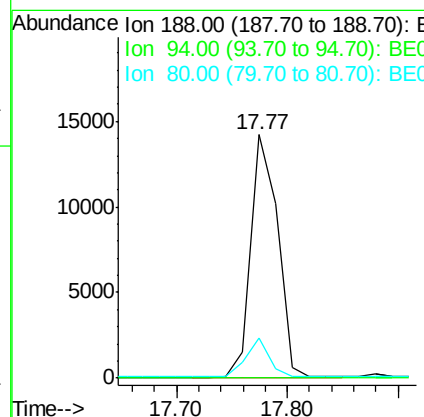
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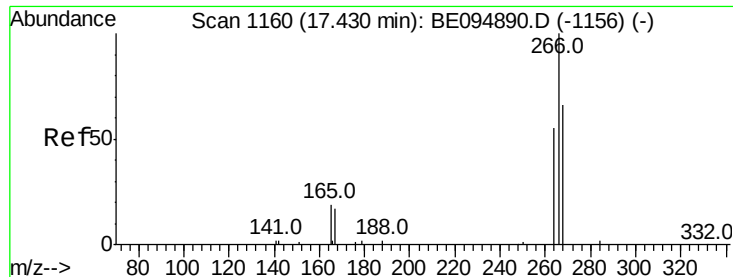
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#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.77 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: BE094967.D
 Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	3.9	5.9#
80	16.4	3.6	5.4#





#22

Pentachlorophenol

Concen: 0.537 ng

RT: 17.43 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Instrument :

BNA_E

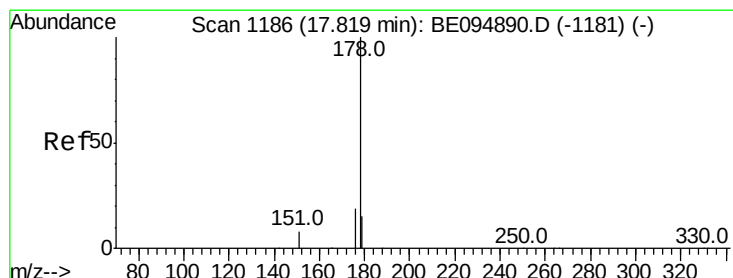
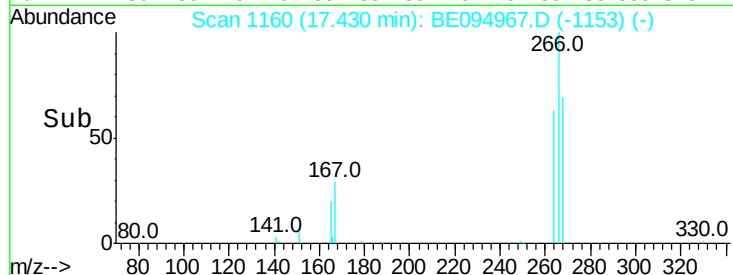
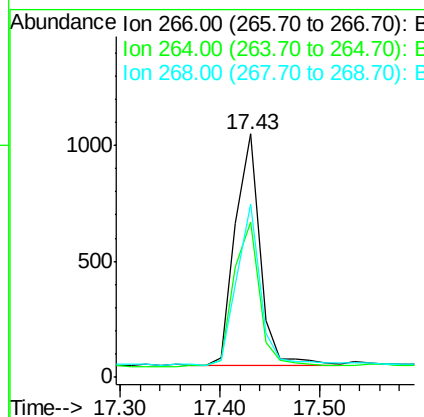
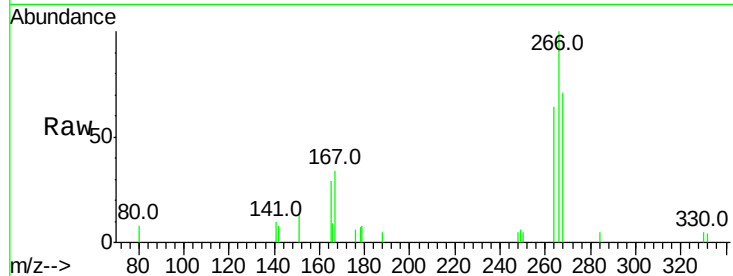
ClientSampleId :

FT-PZ-457S-20171204

Tot Ion:	266	Resp:	1731
Ion Ratio	Lower	Upper	
266	100		
264	64.0	72.5	108.7#
268	71.2	73.8	110.6#

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#23

Phenanthrene

Concen: 0.116 ng

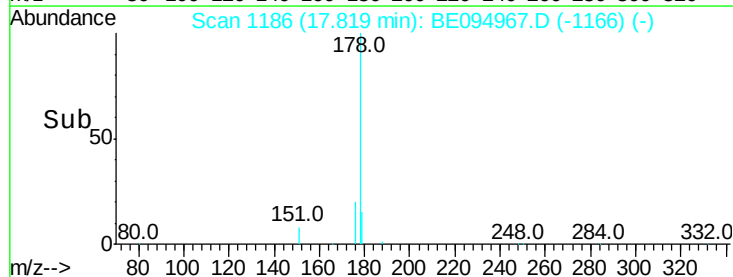
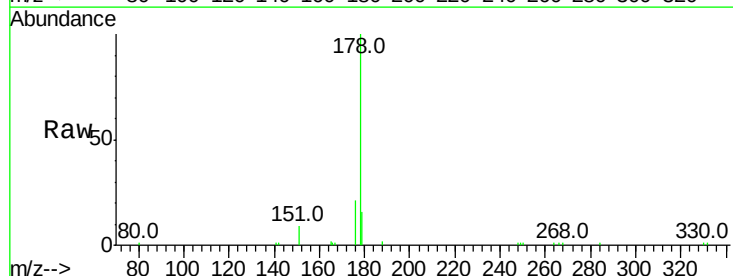
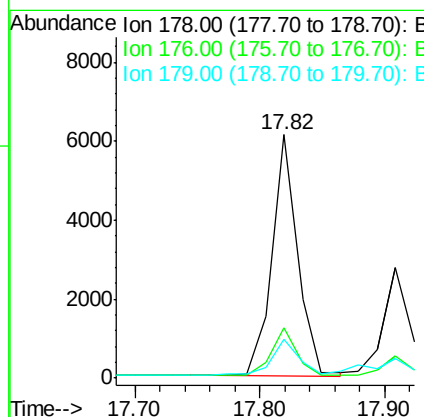
RT: 17.82 min Scan# 1186

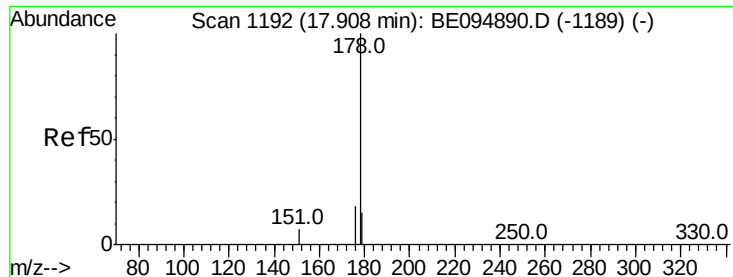
Delta R.T. 0.00 min

Lab File: BE094967.D

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Tgt Ion:	178	Resp:	8815
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.1	22.7
179	15.7	11.8	17.6





#24

Anthracene

Concen: 0.068 ng

RT: 17.91 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Instrument :

BNA_E

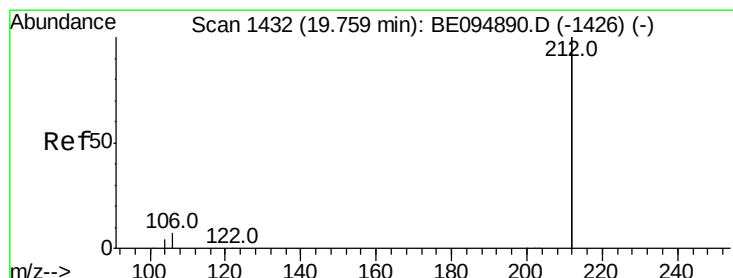
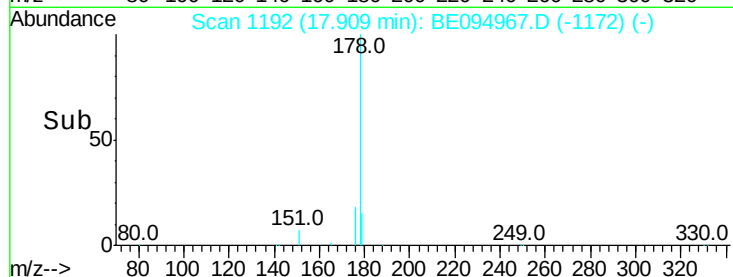
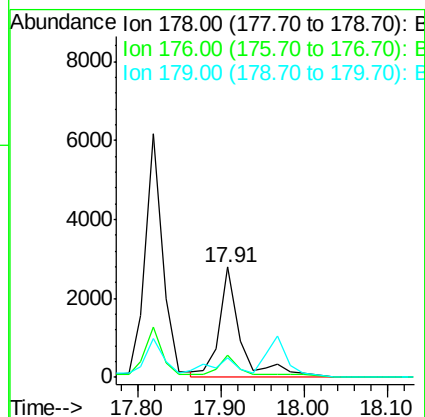
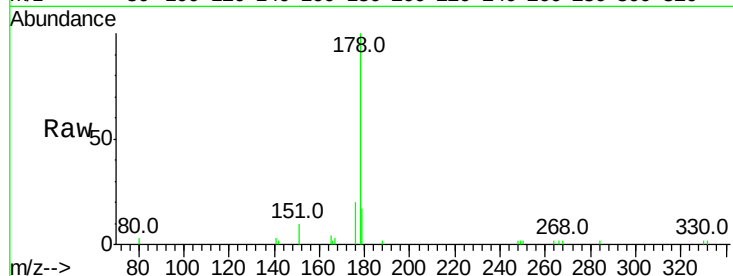
ClientSampleId :

FT-PZ-457S-20171204

Tot Ion:	178	Resp:	5453
Ion Ratio	Lower	Upper	
178	100		
176	25.9	12.8	19.2#
179	19.7	13.0	19.6#

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#25

Fluoranthene-d10

Concen: 0.369 ng

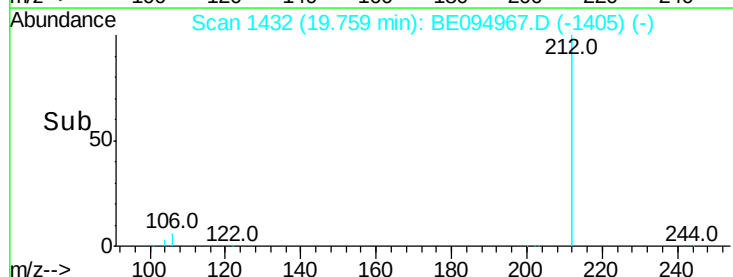
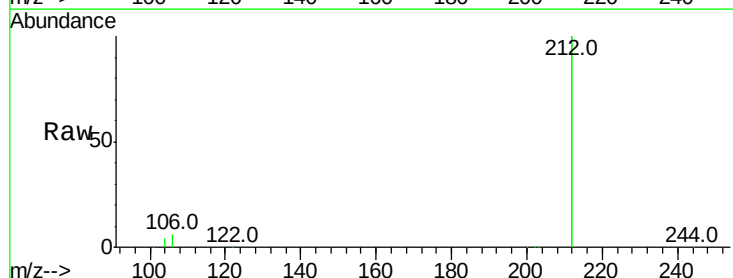
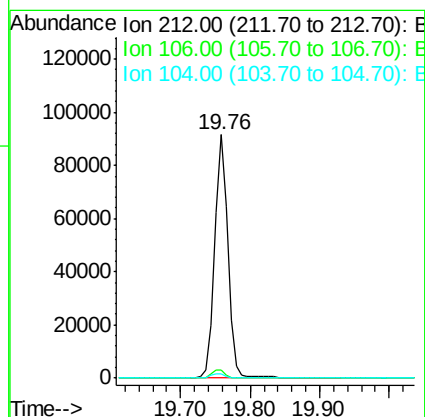
RT: 19.76 min Scan# 1432

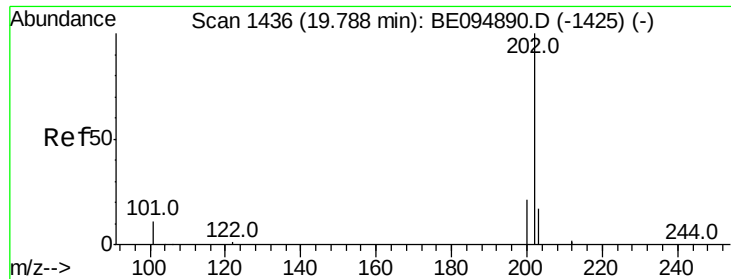
Delta R.T. 0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Tgt Ion:	212	Resp:	119762
Ion Ratio	Lower	Upper	
212	100		
106	3.3	2.8	4.2
104	2.0	1.6	2.4





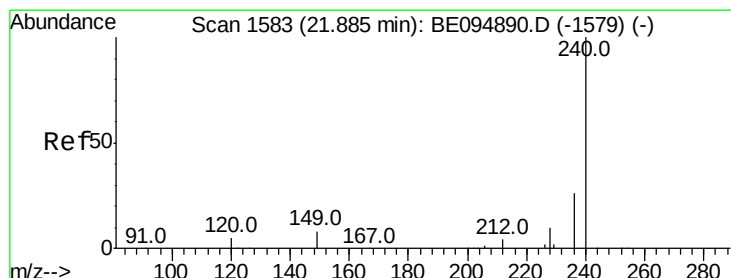
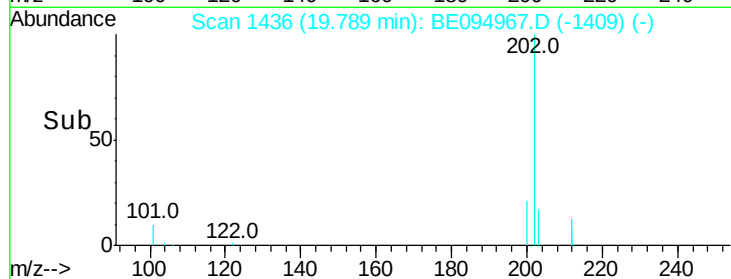
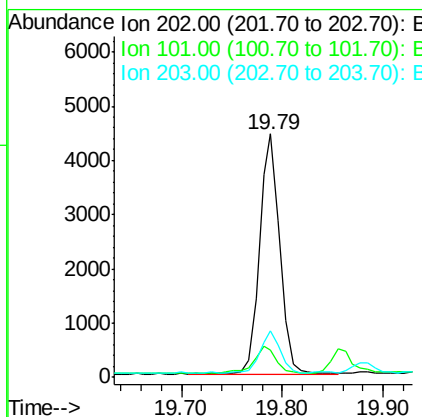
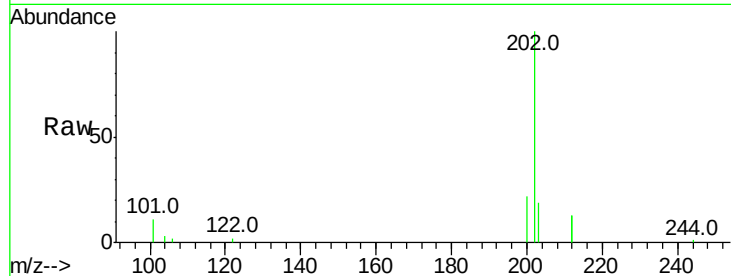
#26
Fluoranthene
 Concen: 0.063 ng
 RT: 19.79 min Scan# 1436
 Delta R.T. 0.00 min
 Lab File: BE094967.D
 Acq: 9 Dec 2017 2:12

Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.1	9.8	14.8
203	17.3	13.7	20.5

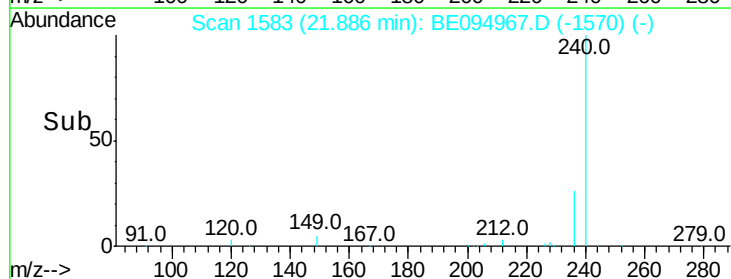
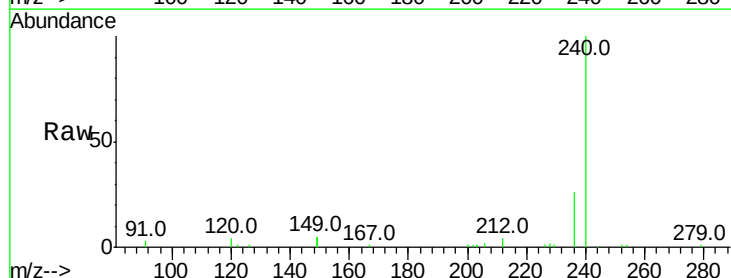
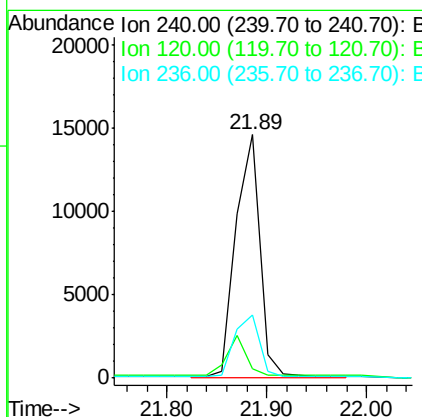
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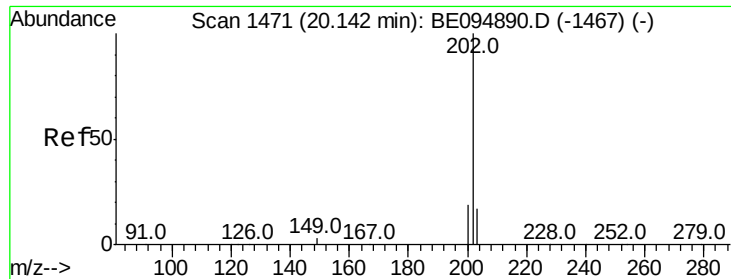
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#27
Chrysene-d12
 Concen: 0.400 ng m
 RT: 21.89 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: BE094967.D
 Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.0	5.5	8.3#
236	26.2	20.7	31.1





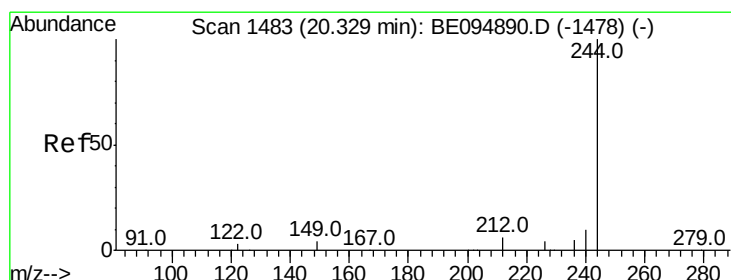
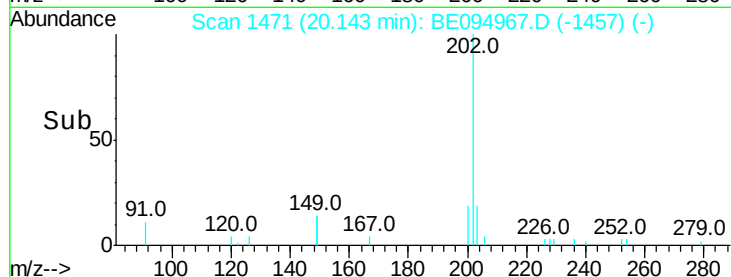
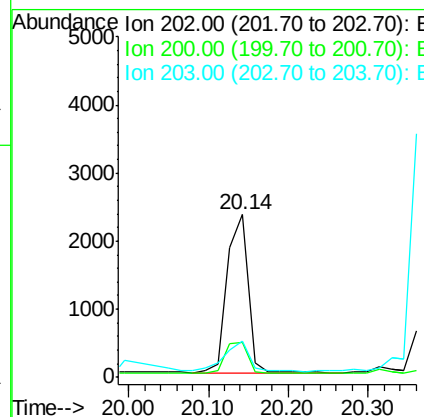
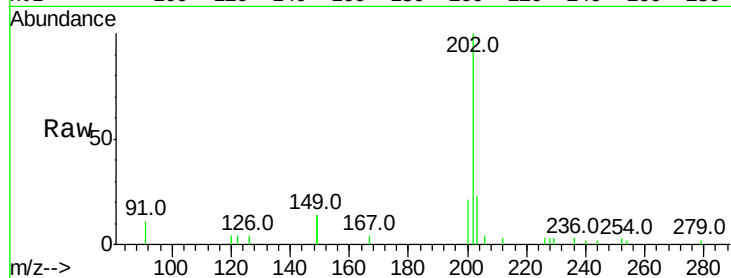
#28
Pvrene
Concen: 0.050 ng
RT: 20.14 min Scan# 1471
Delta R.T. 0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Instrument :
BNA_E
ClientSampleId :
FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.6	25.0
203	22.7	13.8	20.8

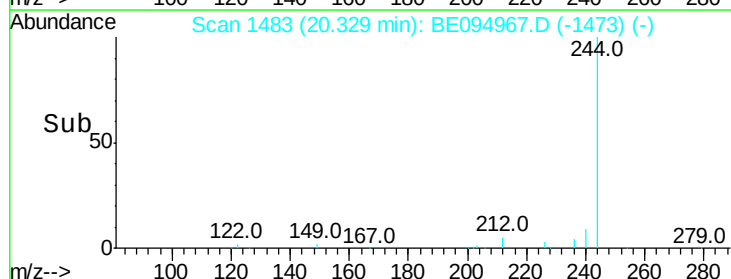
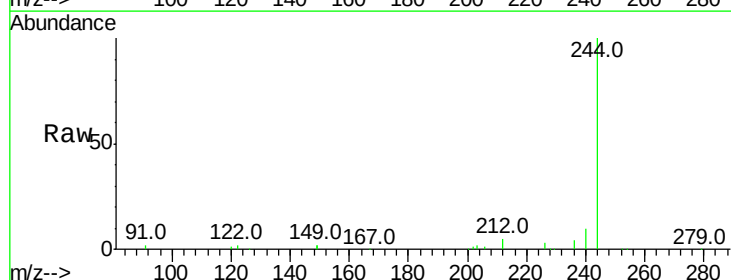
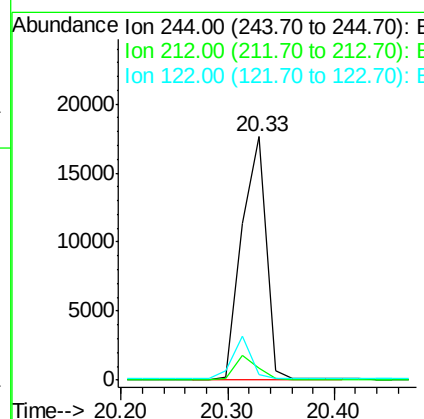
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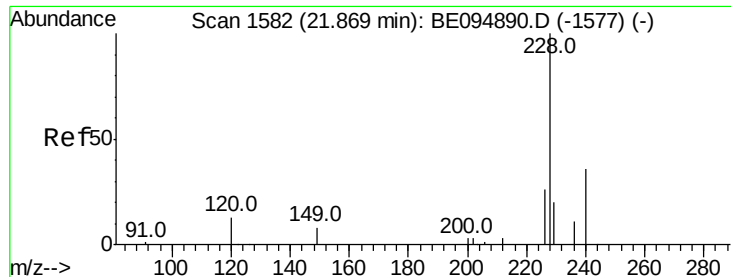
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#29
Terphenyl-d14
Concen: 0.609 ng
RT: 20.33 min Scan# 1483
Delta R.T. 0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.0	25.4	38.0
122	2.0	8.1	12.1





#30

Benzo(a)anthracene

Concen: 0.051 ng

RT: 21.85 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Instrument :

BNA_E

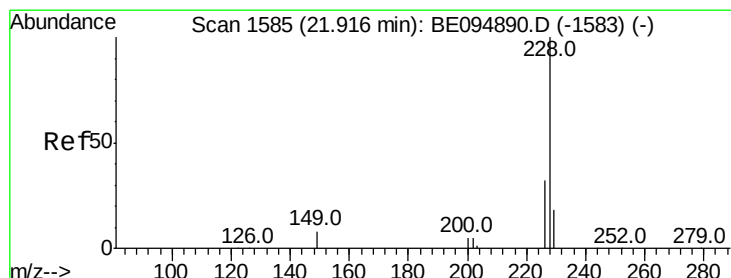
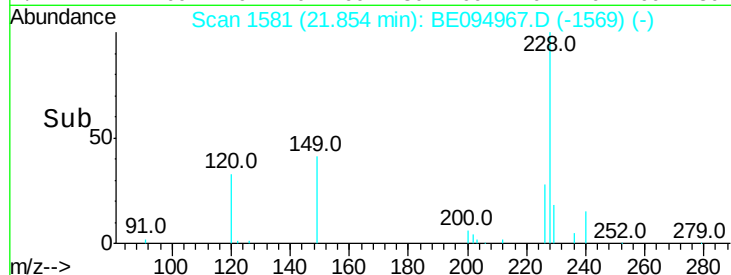
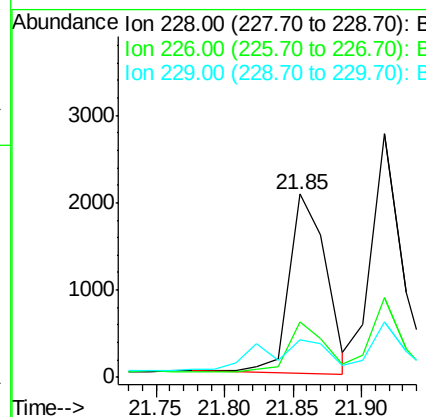
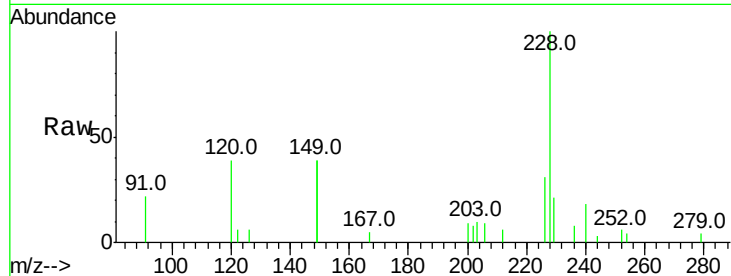
ClientSampleId :

FT-PZ-457S-20171204

Tot Ion:	228	Resp:	3844
Ion Ratio	Lower	Upper	
228	100		
226	30.5	40.0	60.0#
229	20.8	40.0	60.0#

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#31

Chrysene

Concen: 0.050 ng m

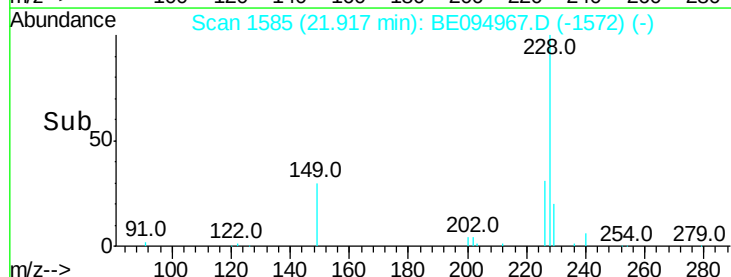
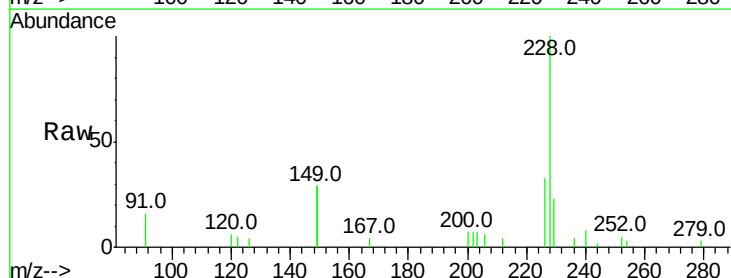
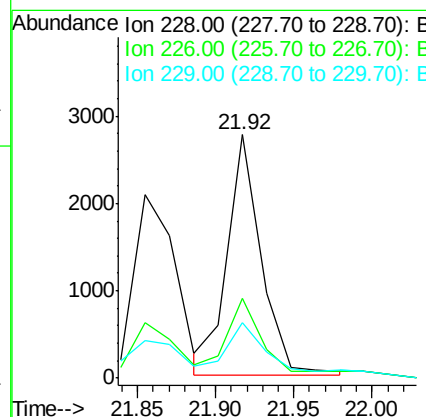
RT: 21.92 min Scan# 1585

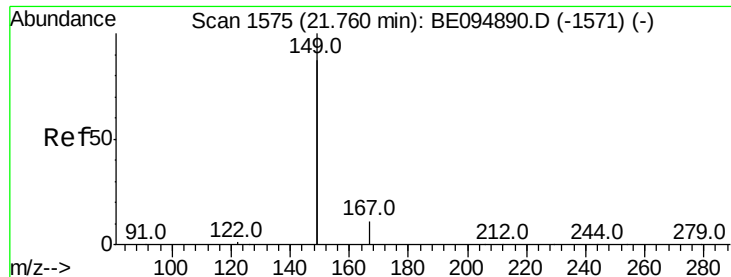
Delta R.T. 0.00 min

Lab File: BE094967.D

Acq: 9 Dec 2017 2:12

Tgt Ion:	228	Resp:	4168
Ion Ratio	Lower	Upper	
228	100		
226	32.8	40.0	60.0#
229	22.7	40.0	60.0#





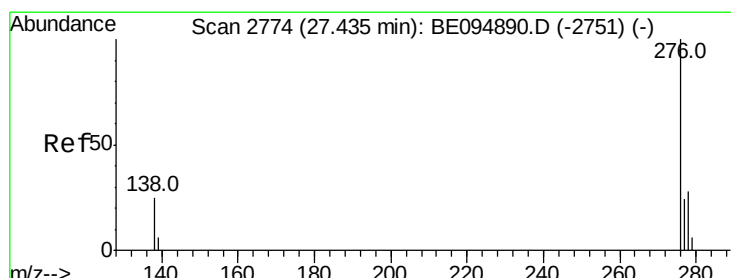
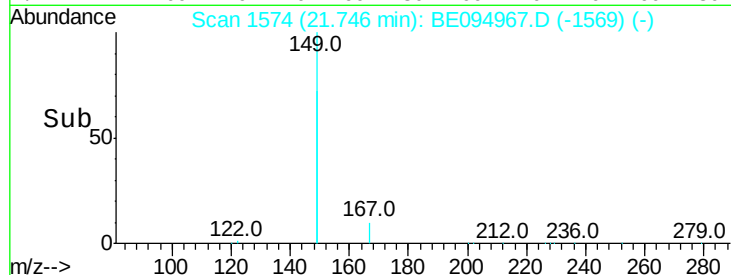
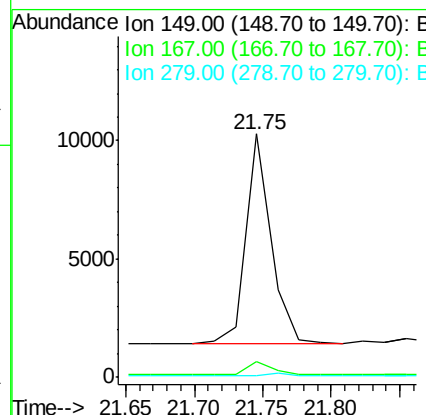
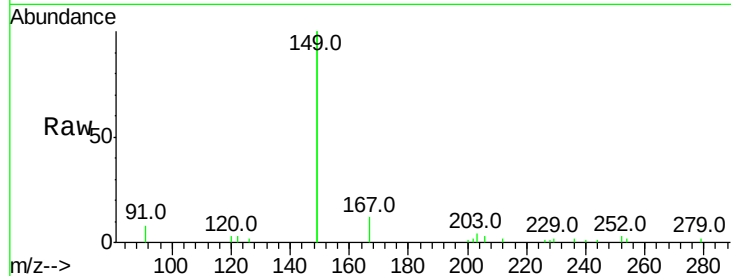
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.091 ng
 RT: 21.75 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BE094967.D
 Acq: 9 Dec 2017 2:12

Instrument :
 BNA_E
 ClientSampleId :
 FT-PZ-457S-20171204

Tot Ion	Ratio	Resp Lower	Upper
149	100		
167	6.1	5.4	8.0
279	1.2	0.7	1.1#

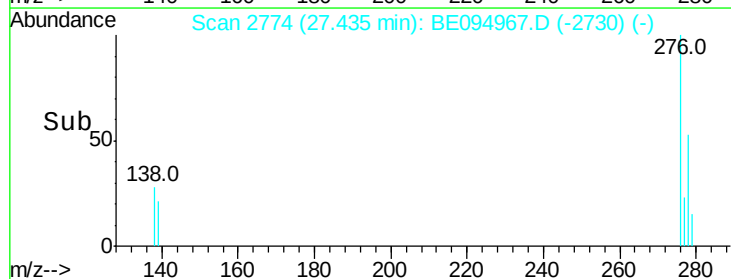
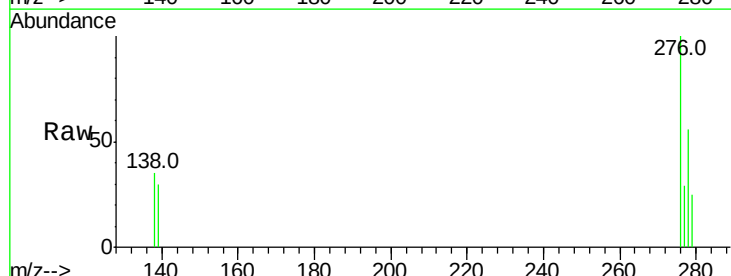
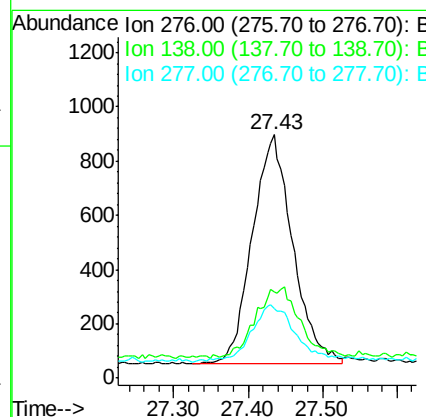
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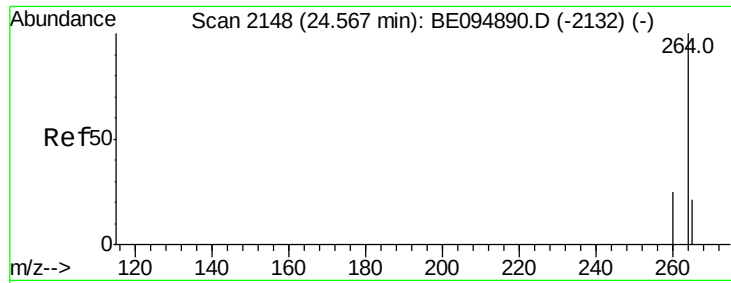
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#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.046 ng
 RT: 27.43 min Scan# 2774
 Delta R.T. -0.00 min
 Lab File: BE094967.D
 Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	34.0	22.5	33.7#
277	27.0	19.9	29.9





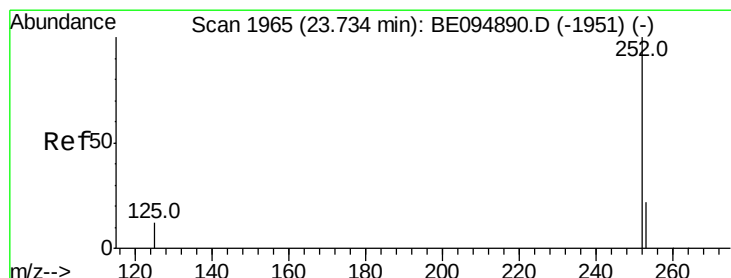
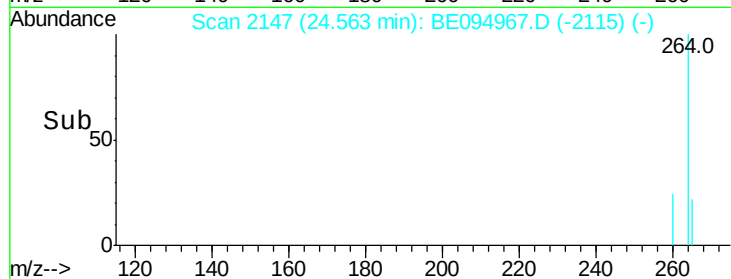
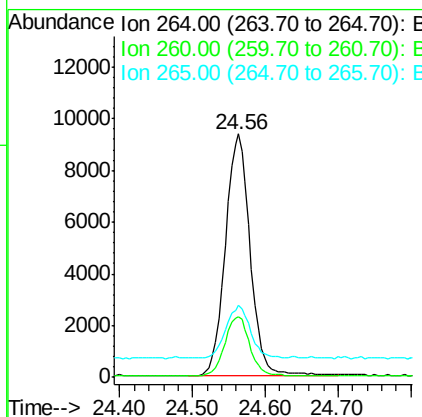
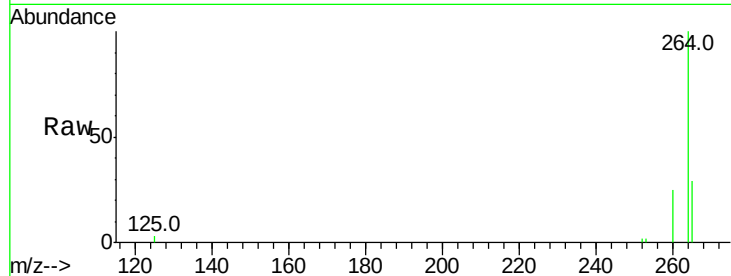
#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.56 min Scan# 2147
Delta R.T. -0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Instrument :
BNA_E
ClientSampleId :
FT-PZ-457S-20171204

Tot Ion	Ratio	Resp	Lower	Upper
264	100	22194		
260	24.9	20.5	30.7	
265	29.4	22.8	34.2	

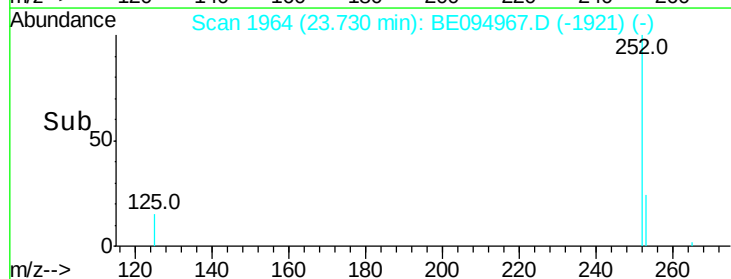
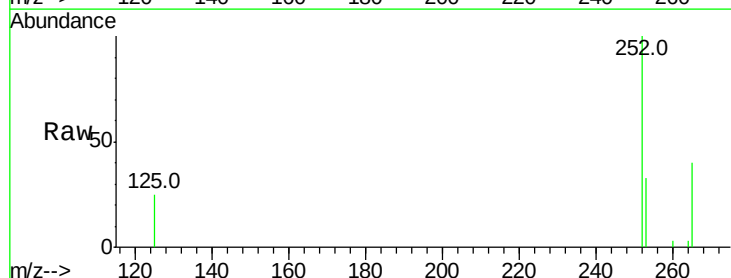
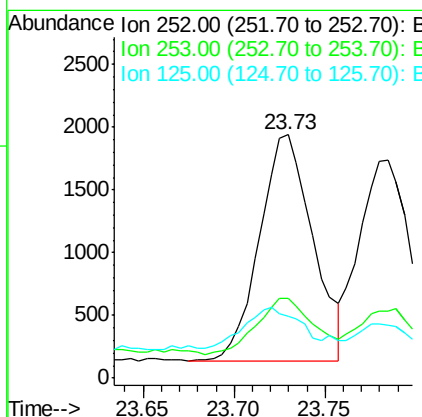
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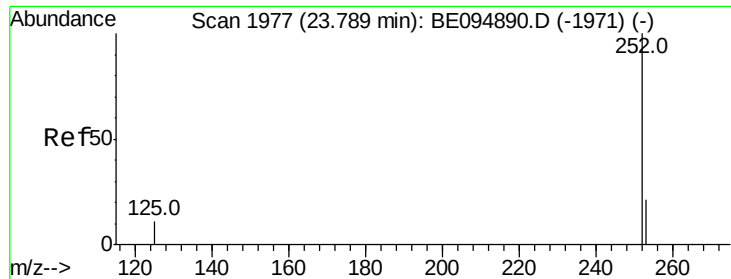
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#35
Benzo(b)fluoranthene
Concen: 0.045 ng
RT: 23.73 min Scan# 1964
Delta R.T. -0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	3665		
253	32.9	48.0	72.0#	
125	25.5	56.0	84.0#	





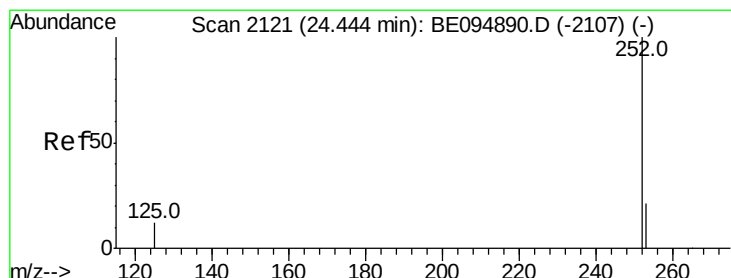
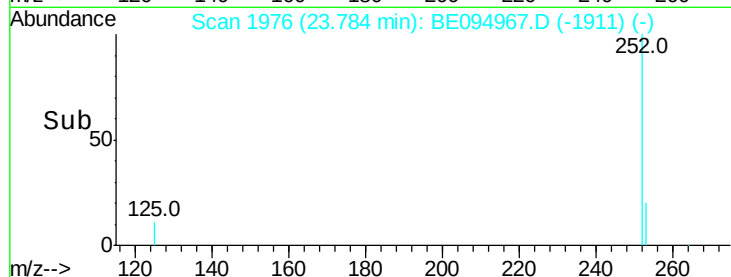
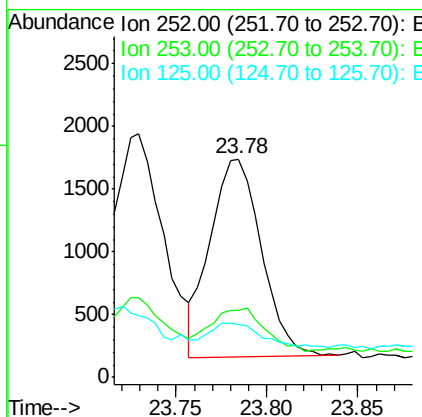
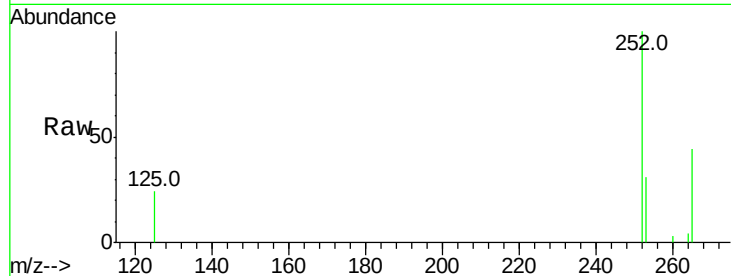
#36
Benzo(k)fluoranthene
Concen: 0.037 ng
RT: 23.78 min Scan# 1976
Delta R.T. -0.00 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Instrument :
BNA_E
ClientSampleId :
FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
252	100		
253	30.7	48.0	72.0#
125	24.2	56.0	84.0#

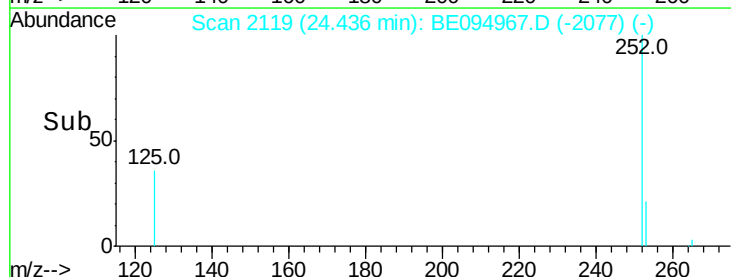
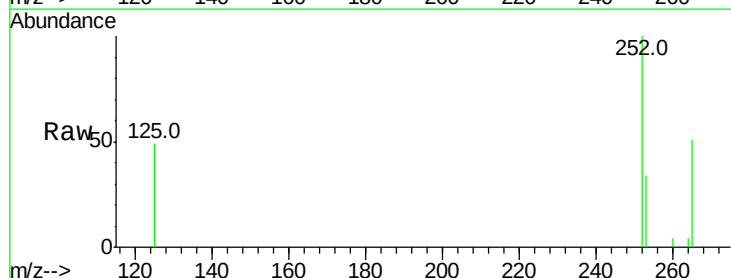
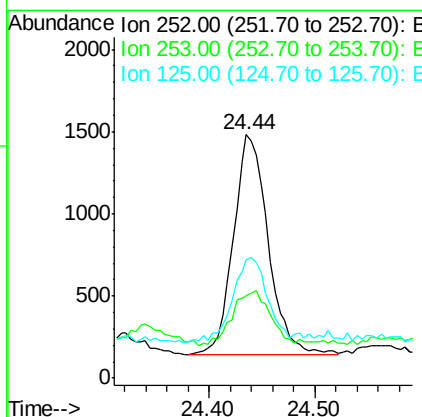
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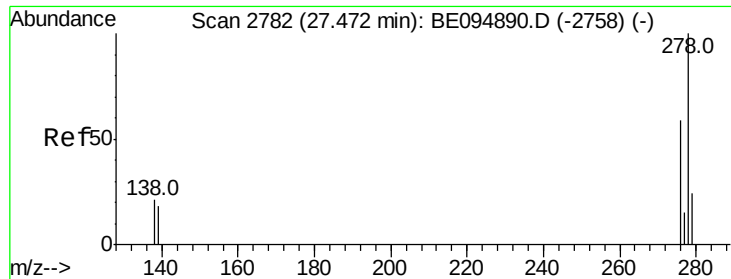
Sohil
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#37
Benzo(a)pyrene
Concen: 0.044 ng
RT: 24.44 min Scan# 2119
Delta R.T. -0.01 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.7	52.0	78.0#
125	48.5	68.0	102.0#





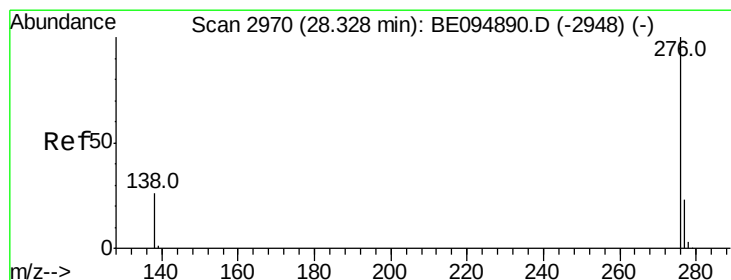
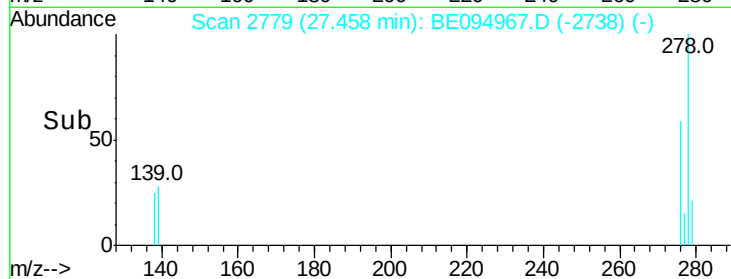
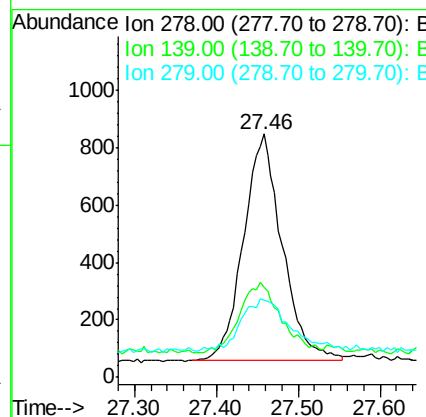
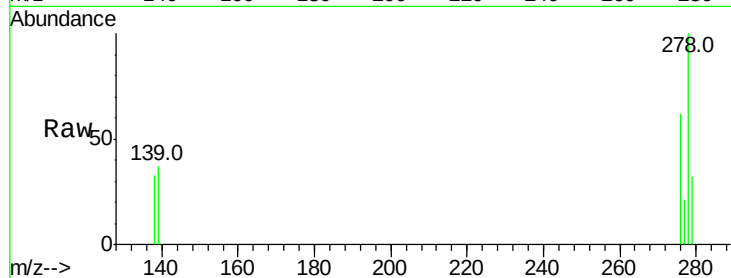
#38
Dibenzo(a,h)anthracene
Concen: 0.040 ng
RT: 27.46 min Scan# 2779
Delta R.T. -0.01 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Instrument :
BNA_E
ClientSampleId :
FT-PZ-457S-20171204

Tot Ion	Ratio	Lower	Upper
278	100		
139	37.0	56.0	84.0#
279	31.9	52.0	78.0#

Manual Integrations
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#39
Benzo(g,h,i)perylene
Concen: 0.044 ng
RT: 28.31 min Scan# 2967
Delta R.T. -0.01 min
Lab File: BE094967.D
Acq: 9 Dec 2017 2:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	30.2	52.0	78.0#
138	32.0	44.0	66.0#

