

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
 Data File : BE100644.D
 Acq On : 15 Oct 2019 11:03
 Operator : JU
 Sample : K4994-06
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW093-091819-2

Manual Integrations
 APPROVED

mohammad
 10/17/2019 7:56:44 AM

Quant Time: Oct 16 12:30:59 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 10 14:01:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	6123	0.40	ng	-0.01
7) Naphthalene-d8	10.64	136	29118	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	28641	0.40	ng	-0.01
19) Phenanthrene-d10	17.21	188	42649	0.40	ng	0.01
27) Chrysene-d12	21.39	240	44923	0.40	ng	0.02
34) Perylene-d12	23.88	264	53352	0.40	ng	0.04

System Monitoring Compounds						
4) 2-Fluorophenol	5.44	112	4836	0.26	ng	0.00
5) Phenol-d6	7.01	99	7361	0.28	ng	0.00
8) Nitrobenzene-d5	8.99	82	6272	0.35	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	11464	0.25	ng	0.00
14) 2,4,6-Tribromophenol	15.96	330	2114	0.28	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	14949	0.14	ng	-0.01
25) Fluoranthene-d10	19.24	212	93727m	0.17	ng	0.01
29) Terphenyl-d14	19.83	244	39104	0.40	ng	0.00

Target Compounds				Qvalue		
9) Naphthalene	10.68	128	1176542	3.843	ng	99
12) 2-Methylnaphthalene	12.30	142	269850	5.170	ng	93
16) Acenaphthylene	14.20	152	1384829	11.237	ng	97
17) Acenaphthene	14.54	154	373069	4.684	ng	92
18) Fluorene	15.51	166	904353	8.549	ng	# 89
23) Phenanthrene	17.27	178	11430778m	97.441	ng	
24) Anthracene	17.33	178	2523628	23.185	ng	98
26) Fluoranthene	19.29	202	12666304	82.728	ng	# 75
28) Pyrene	19.65	202	14869980	118.478	ng	# 61
30) Benzo(a)anthracene	21.38	228	10547337	71.975	ng	# 68
31) Chrysene	21.44	228	9479625	64.730	ng	# 68
32) Bis(2-ethylhexyl)phthalate	21.31	149	158313	0.517	ng	# 65
33) Indeno(1,2,3-cd)pyrene	26.57	276	6500057	36.113	ng	96
35) Benzo(b)fluoranthene	23.15	252	11357700	73.008	ng	# 91
36) Benzo(k)fluoranthene	23.18	252	3622977m	22.644	ng	
37) Benzo(a)pyrene	23.80	252	8871472	61.263	ng	93
38) Dibenzo(a,h)anthracene	26.57	278	1875778	12.532	ng	# 92
39) Benzo(a,h,i)perylene	27.39	276	6878308	45.693	ng	97

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

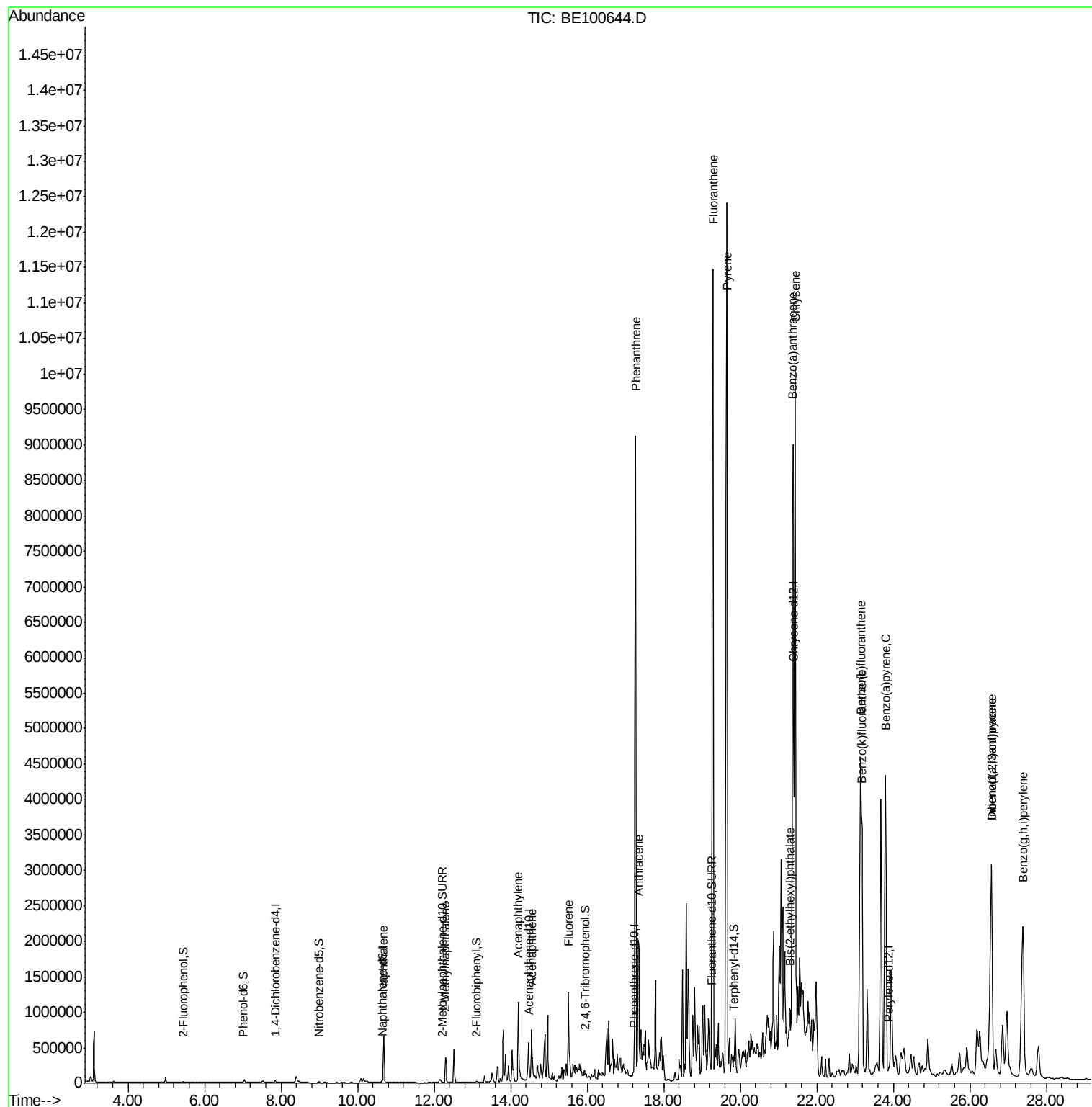
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
Data File : BE100644.D
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ALS Vial : 5 Sample Multiplier: 1

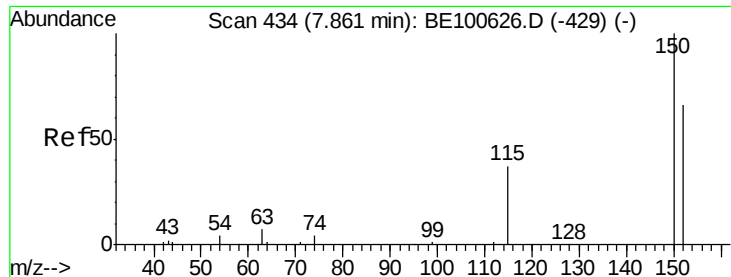
Instrument :
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EXT-SW093-091819-2

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QLast Update : Thu Oct 10 14:01:52 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.85 min Scan# 433

Delta R.T. -0.01 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

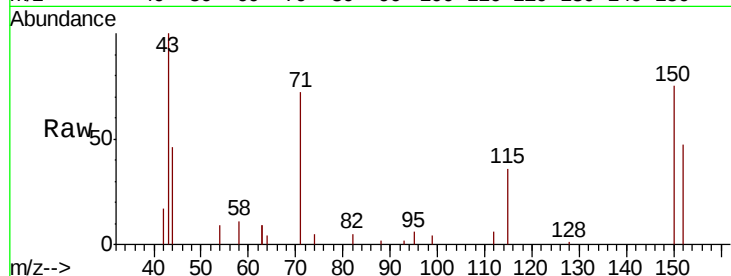
ClientSampleId :

EXT-SW093-091819-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	120.7	181.1
115	76.5	48.0	72.0

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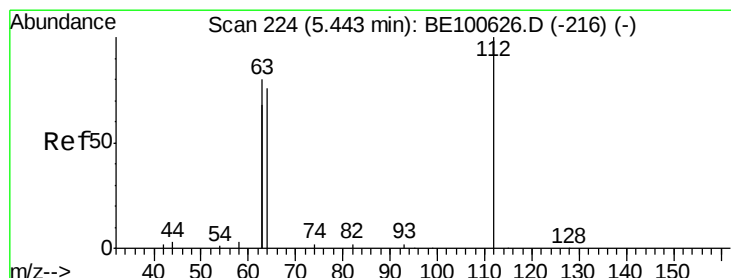
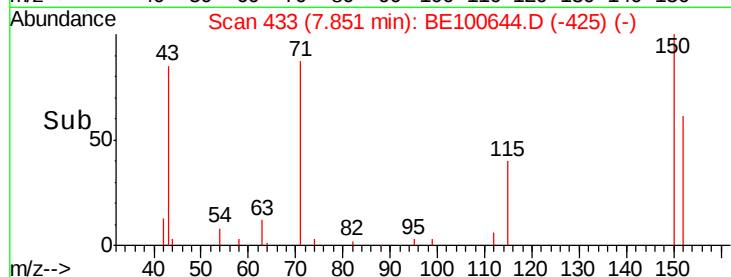
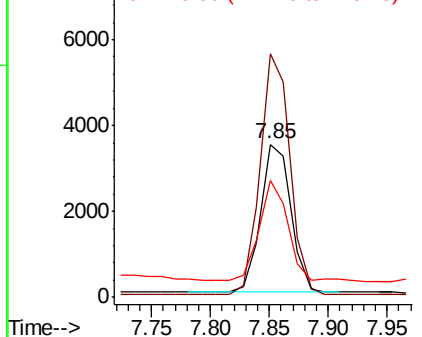


Abundance

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



#4

2-Fluorophenol

Concen: 0.256 ng

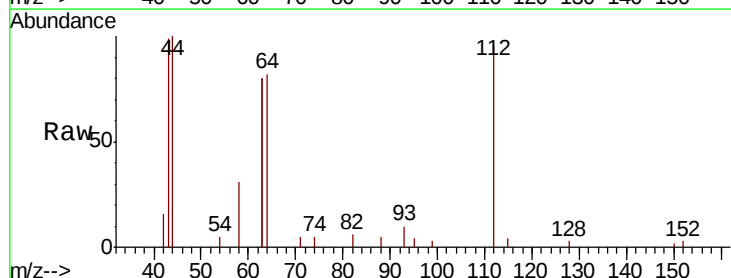
RT: 5.44 min Scan# 224

Delta R.T. 0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.1	58.9	88.3
63	154.6	118.3	177.5

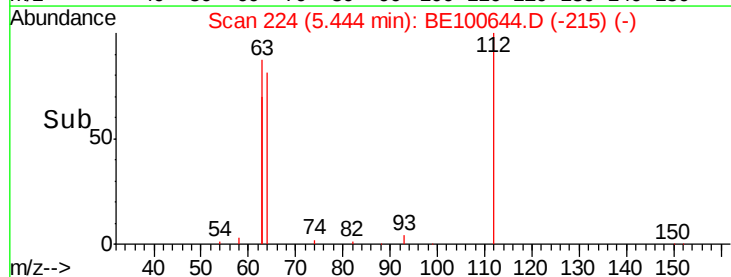
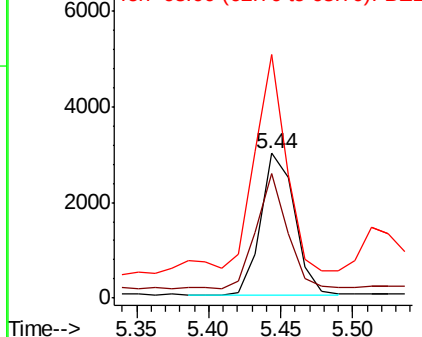


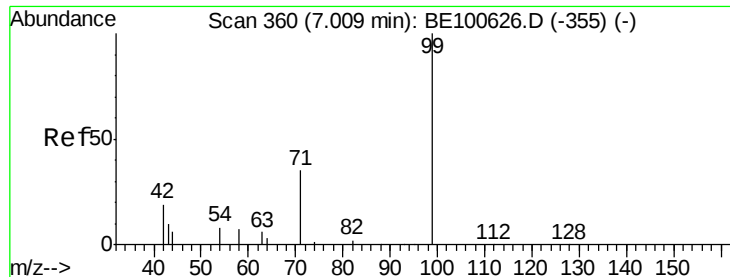
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.276 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

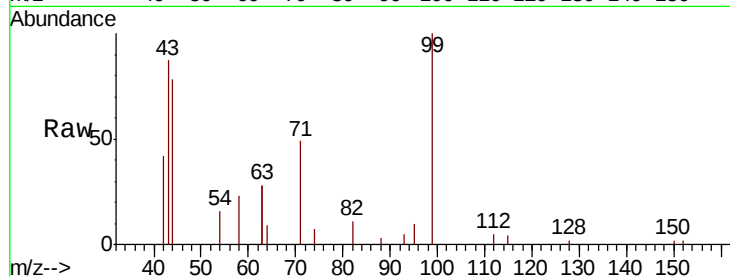
ClientSampleId :

EXT-SW093-091819-2

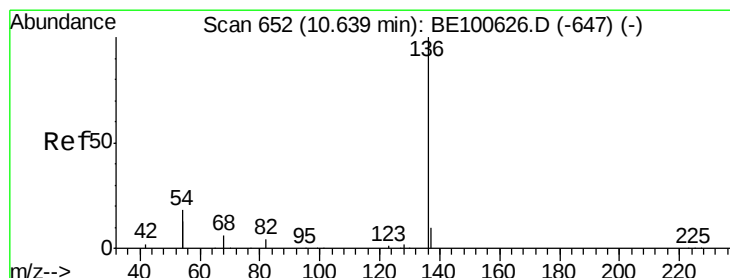
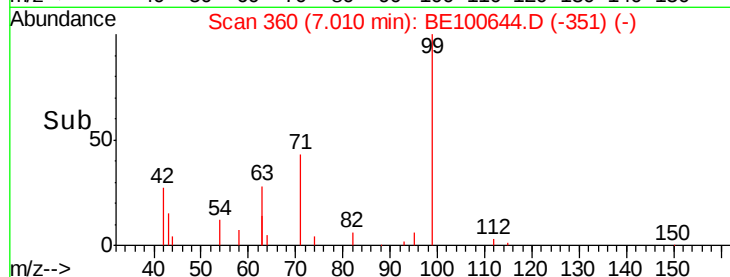
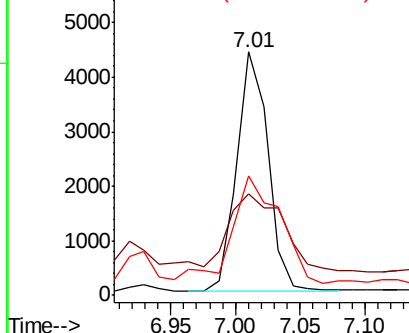
Tot Ion:	99	Resp:	7361
Ion Ratio	Lower	Upper	
99	100		
42	59.0	19.4	29.2#
71	65.5	26.9	40.3#

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Abundance Ion 99.00 (98.70 to 99.70): BE1
Ion 42.00 (41.70 to 42.70): BE1
Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

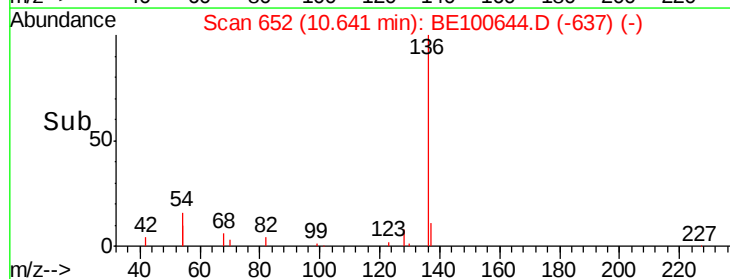
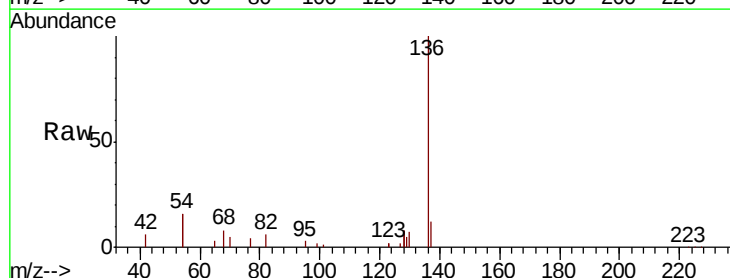
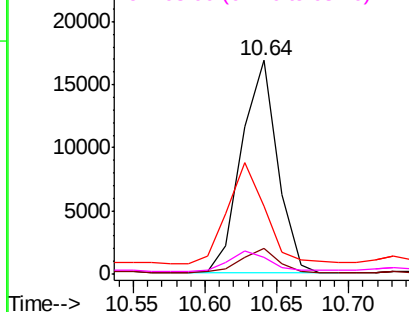
Delta R.T. 0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Tgt Ion:	136	Resp:	29118
Ion Ratio	Lower	Upper	
136	100		
137	12.0	8.6	13.0
54	31.5	28.7	43.1
68	7.6	5.9	8.9

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE1
Ion 68.00 (67.70 to 68.70): BE1





#8

Nitrobenzene-d5

Concen: 0.348 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

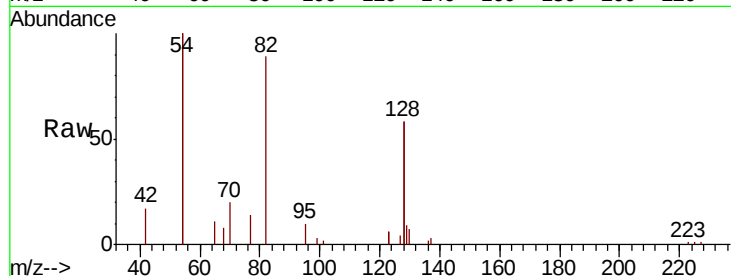
ClientSampleId :

EXT-SW093-091819-2

Tot Ion	82	Resp	6272
Ion Ratio	Lower	Upper	
82	100		
128	129.3	90.7	136.1
54	224.5	210.9	316.3

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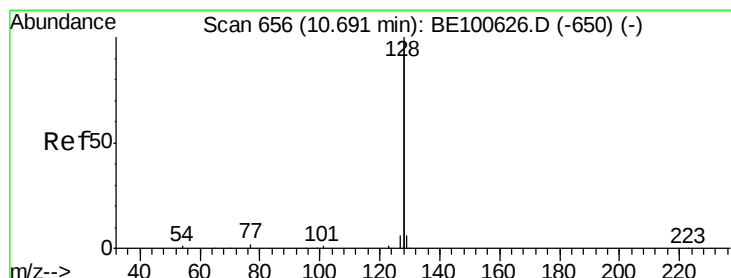
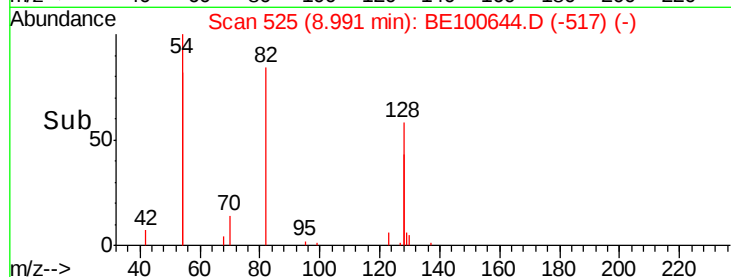
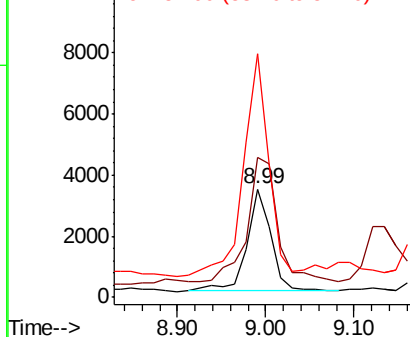


Abundance

Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 3.843 ng

RT: 10.68 min Scan# 655

Delta R.T. -0.01 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

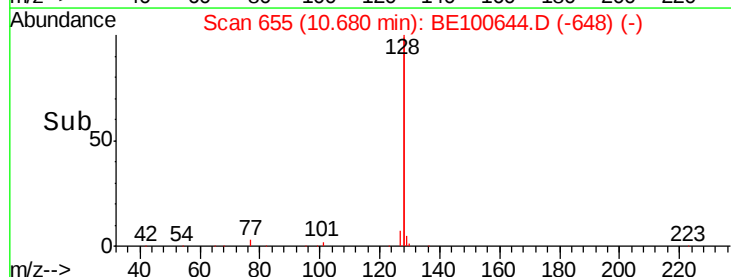
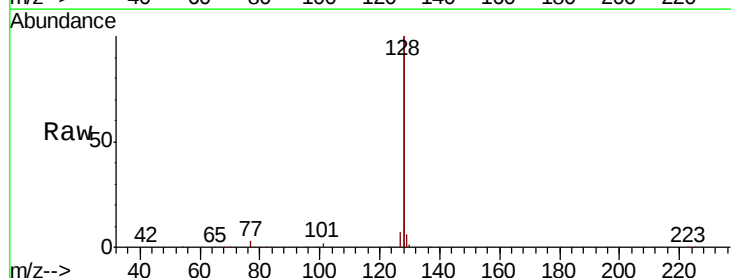
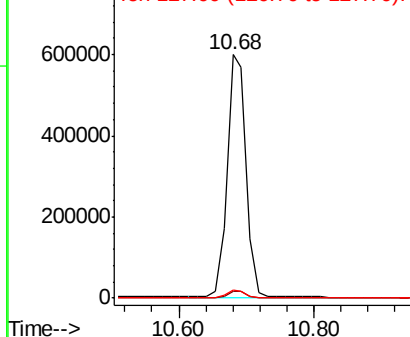
Tgt Ion	128	Resp	1176542
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
128	100		
129	2.8	2.4	3.6
127	3.4	2.6	3.8

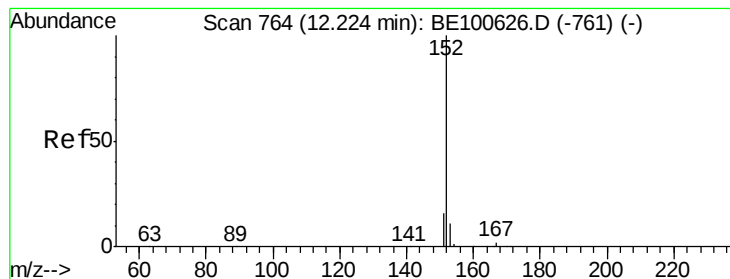
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





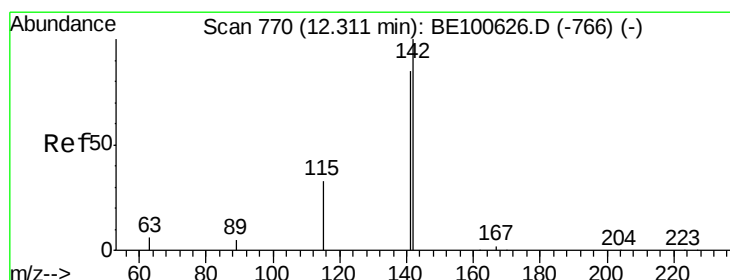
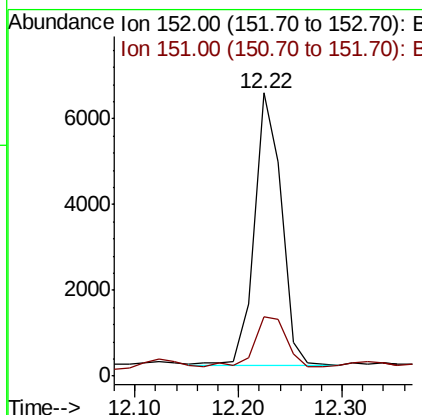
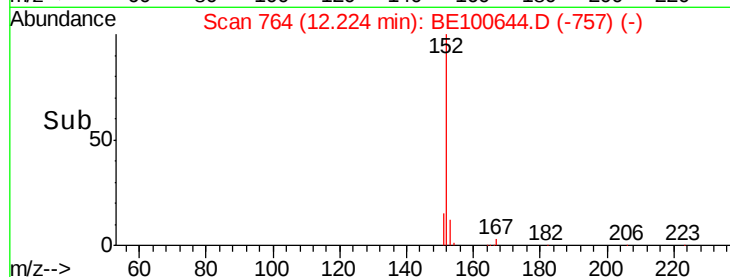
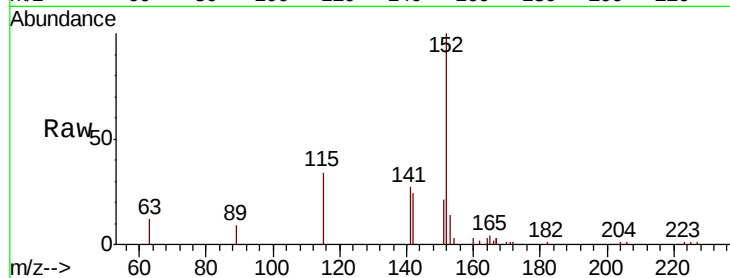
#11
2-Methylnaphthalene-d10
Concen: 0.250 ng
RT: 12.22 min Scan# 764
Delta R.T. -0.00 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

Tot Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.2	22.8

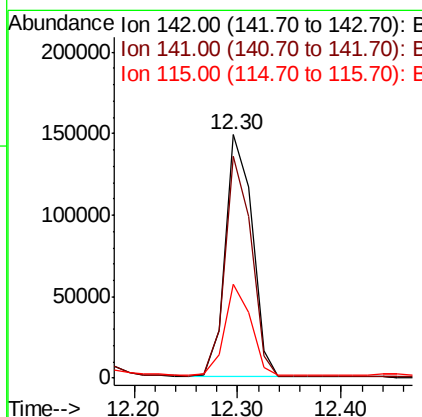
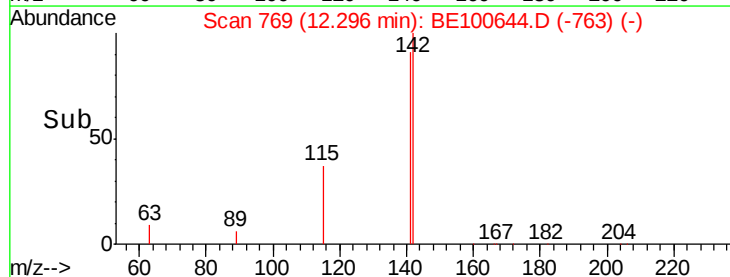
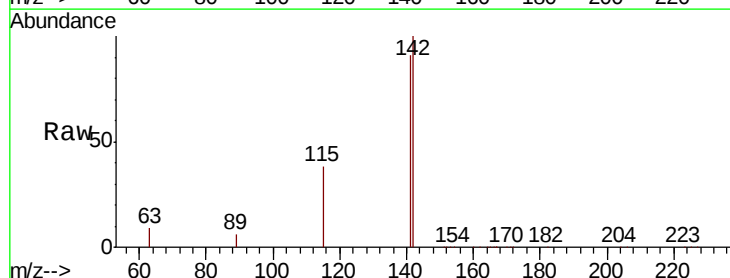
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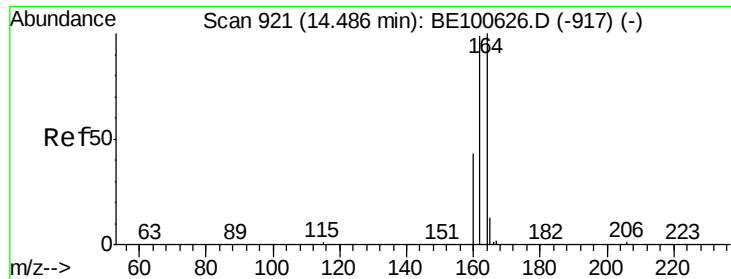
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#12
2-Methylnaphthalene
Concen: 5.170 ng
RT: 12.30 min Scan# 769
Delta R.T. -0.01 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.3	68.3	102.5
115	38.4	27.5	41.3





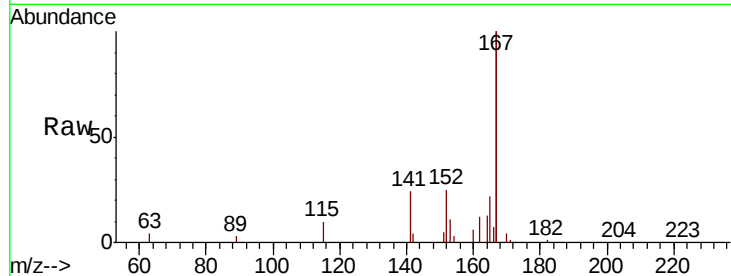
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.47 min Scan# 920
Delta R.T. -0.01 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

Tot Ion	Ratio	Lower	Upper
164	100		
162	89.5	79.1	118.7
160	49.4	34.7	52.1

Manual Integrations
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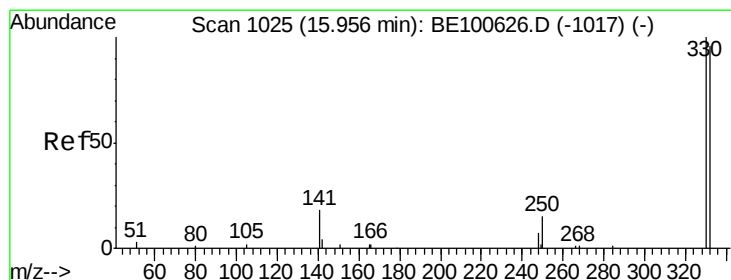
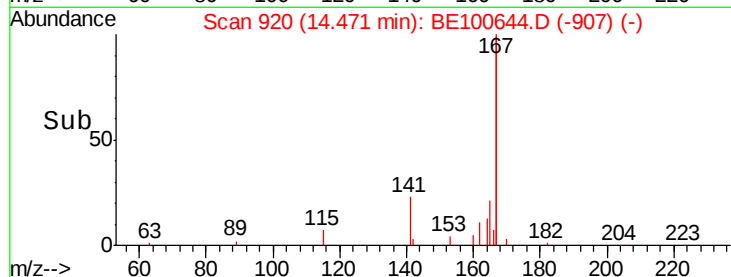
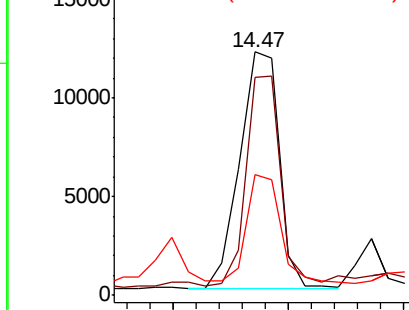


Abundance

Ion 164.00 (163.70 to 164.70): E

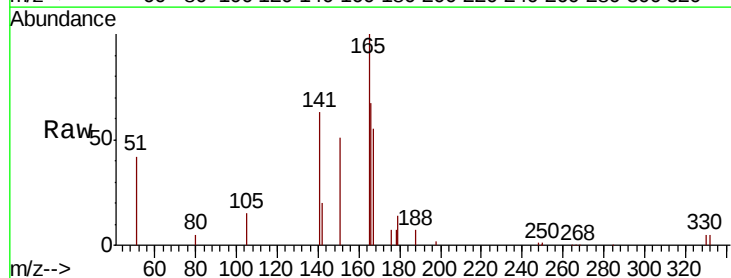
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.279 ng
RT: 15.96 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	88.8	75.2	112.8
141	1721.8	37.5	56.3#

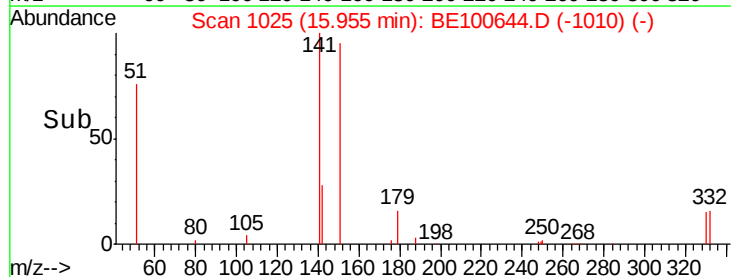
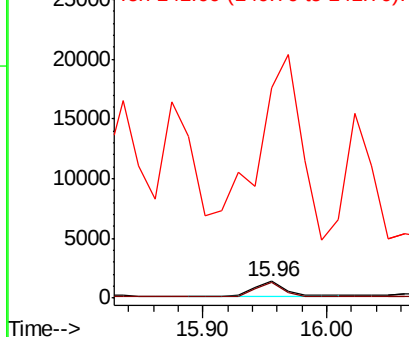


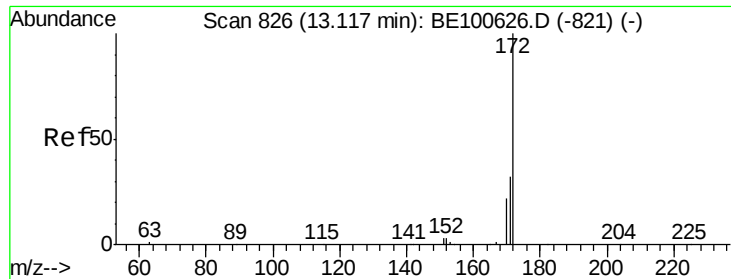
Abundance

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





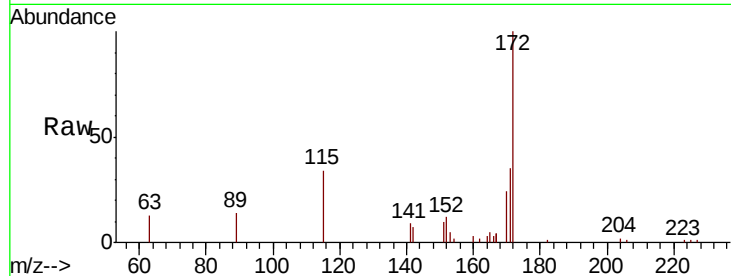
#15
2-Fluorobiphenyl
Concen: 0.143 ng
RT: 13.10 min Scan# 825
Delta R.T. -0.01 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	26.2	39.4
170	24.5	17.5	26.3

Manual Integrations
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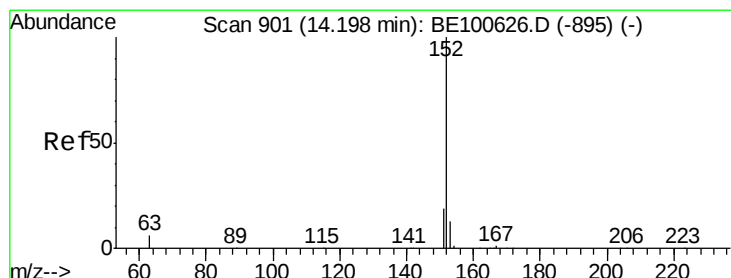
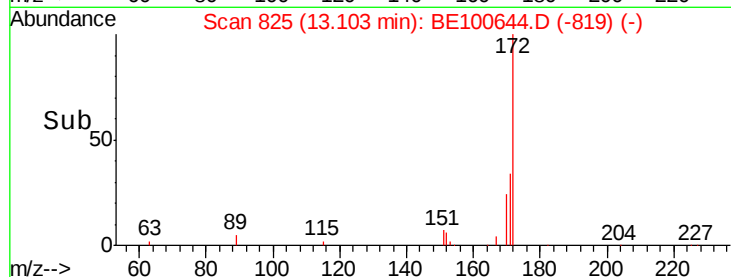
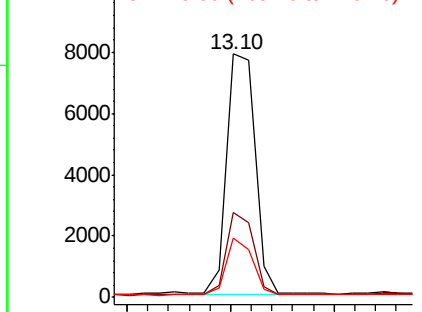


Abundance

Ion 172.00 (171.70 to 172.70): E

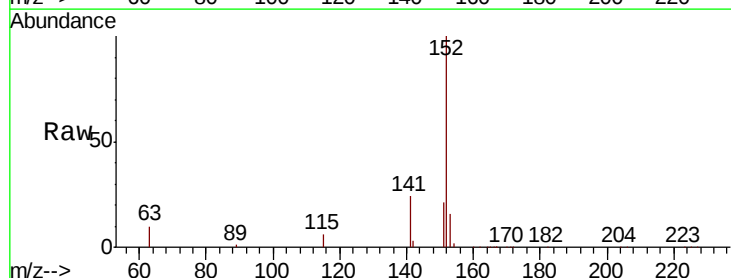
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 11.237 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.6	23.4
153	15.3	10.5	15.7

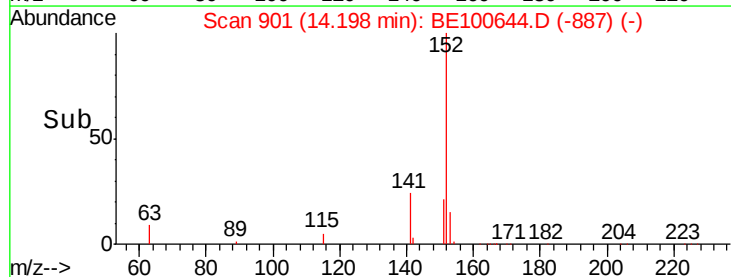
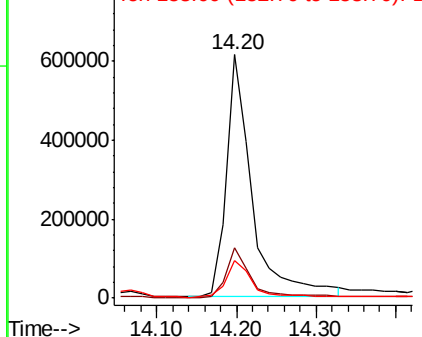


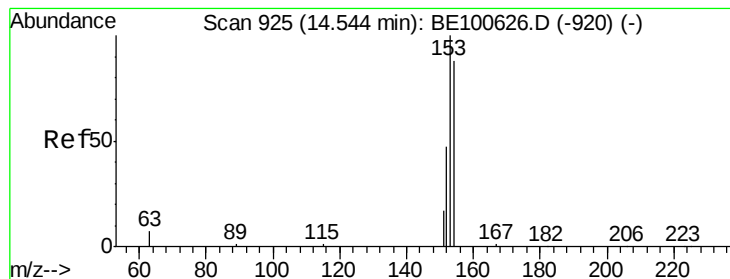
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 4.684 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

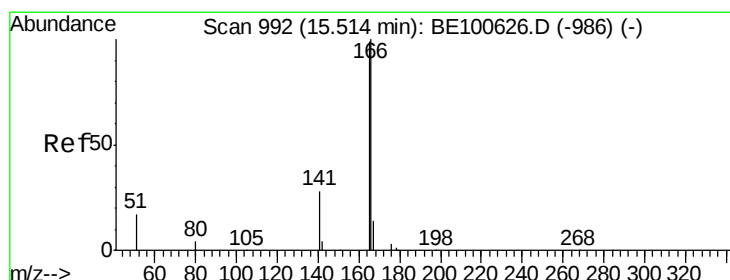
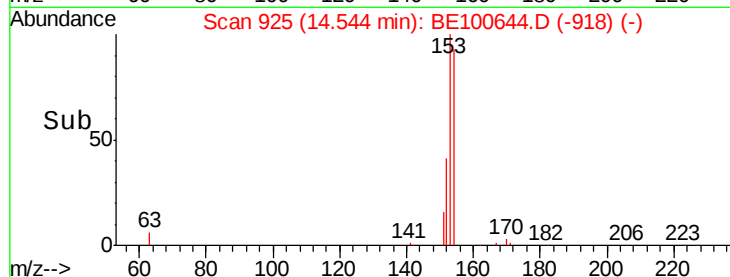
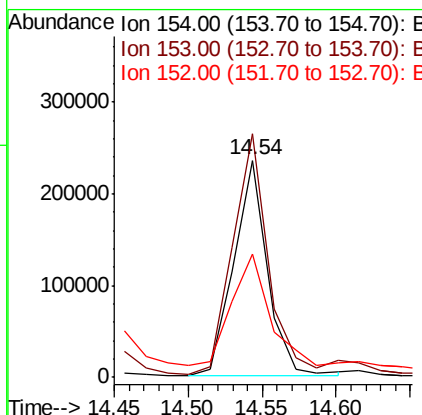
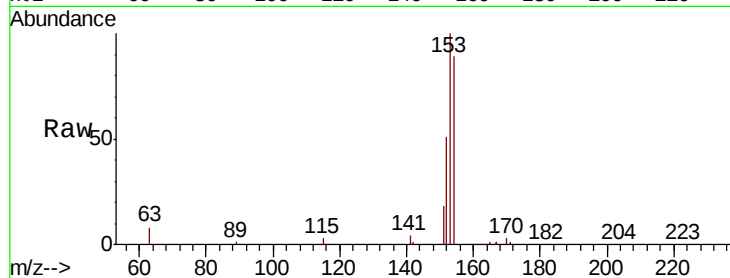
ClientSampleId :

EXT-SW093-091819-2

Tot Ion:	154	Resp:	373069
Ion Ratio	Lower	Upper	
154	100		
153	123.9	91.4	137.2
152	58.7	44.0	66.0

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#18

Fluorene

Concen: 8.549 ng

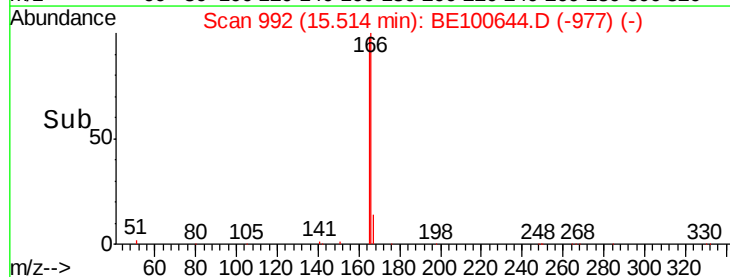
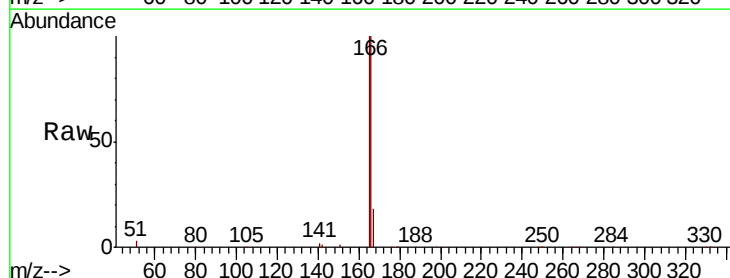
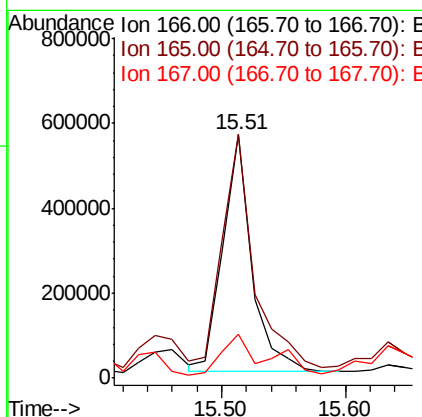
RT: 15.51 min Scan# 992

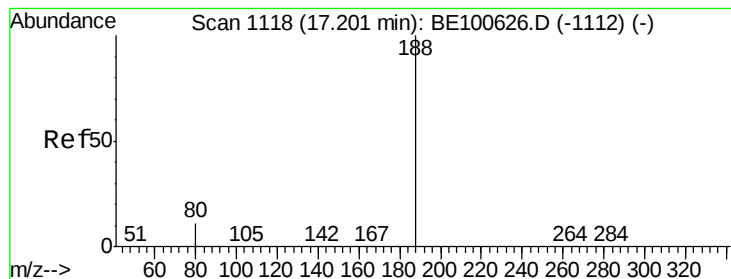
Delta R.T. -0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Tgt Ion:	166	Resp:	904353
Ion Ratio	Lower	Upper	
166	100		
165	107.2	78.9	118.3
167	26.4	10.9	16.3#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. 0.01 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

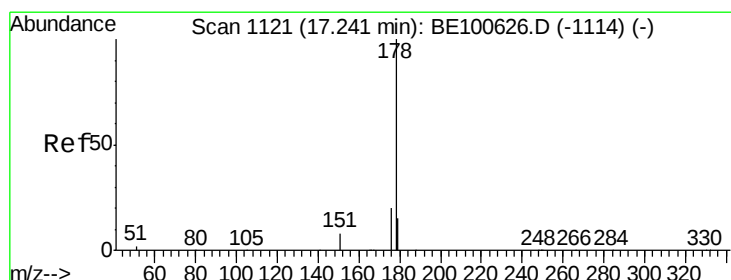
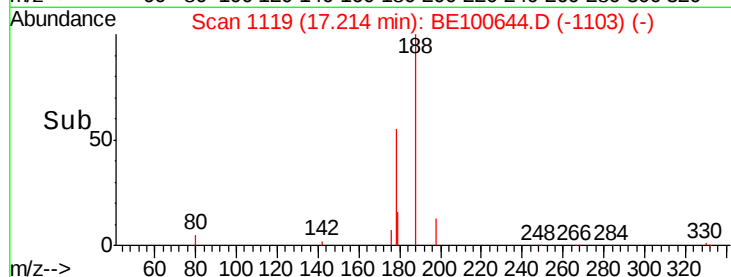
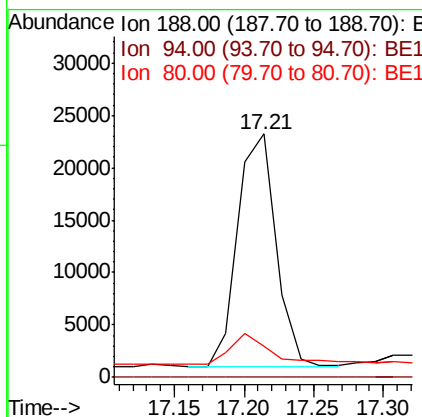
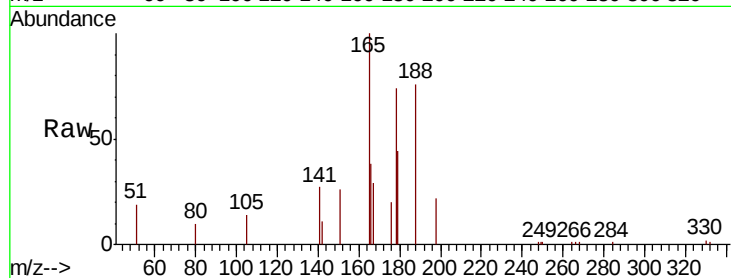
ClientSampleId :

EXT-SW093-091819-2

Tot Ion:	188	Resp:	42649
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.6	9.4	14.2

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#23

Phenanthrene

Concen: 97.441 ng m

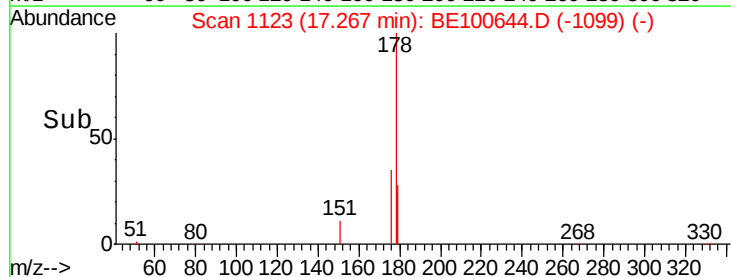
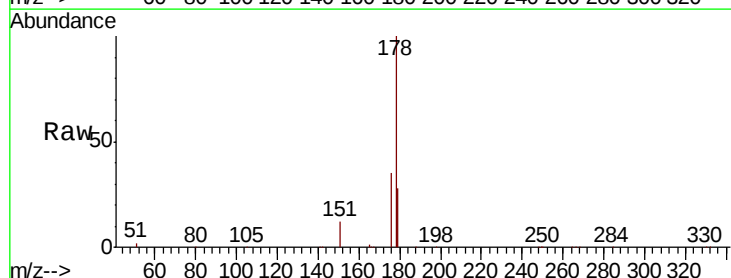
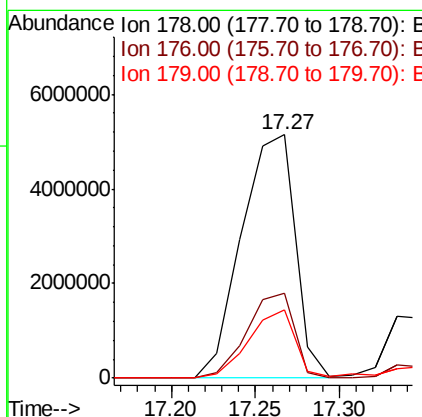
RT: 17.27 min Scan# 1123

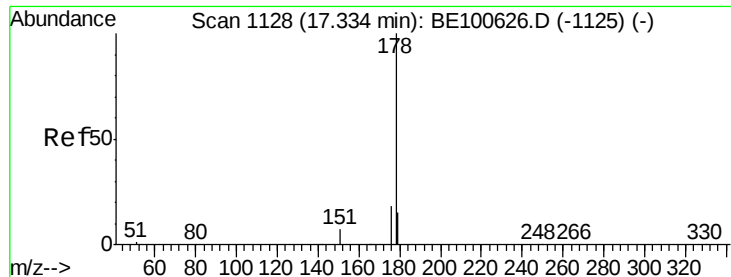
Delta R.T. 0.03 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Tgt Ion:	178	Resp:	11430778
Ion Ratio	Lower	Upper	
178	100		
176	4.5	15.6	23.4#
179	4.1	12.4	18.6#





#24

Anthracene

Concen: 23.185 ng

RT: 17.33 min Scan# 1128

Delta R.T. -0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

ClientSampleId :

EXT-SW093-091819-2

Tot Ion:178 Resp: 2523628

Ion Ratio Lower Upper

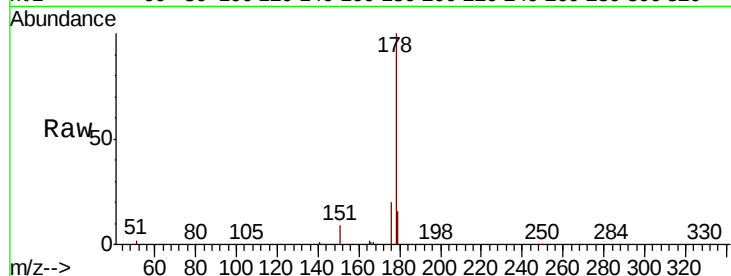
178 100

176 19.3 14.5 21.7

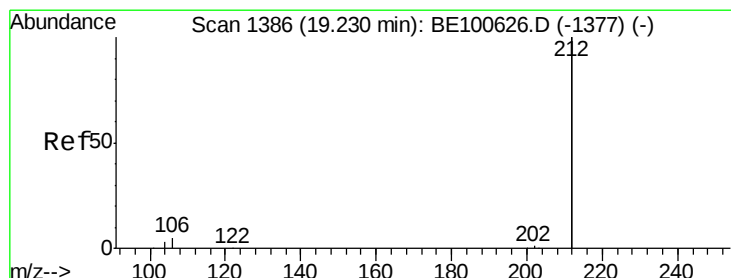
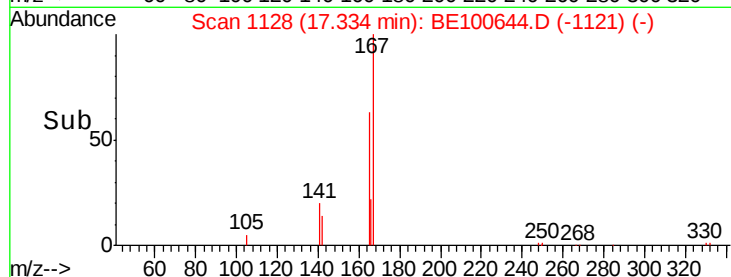
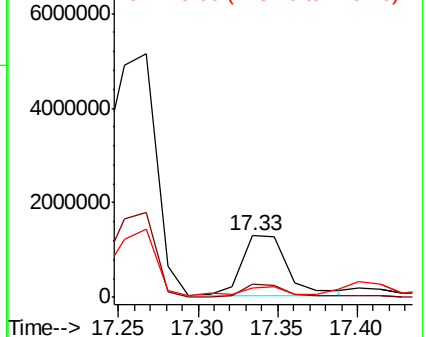
179 14.8 12.4 18.6

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.170 ng m

RT: 19.24 min Scan# 1388

Delta R.T. 0.01 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

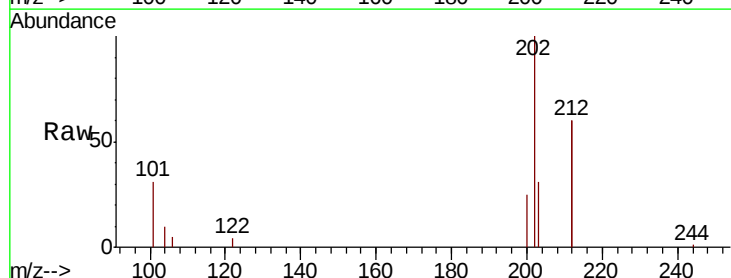
Tgt Ion:212 Resp: 93727

Ion Ratio Lower Upper

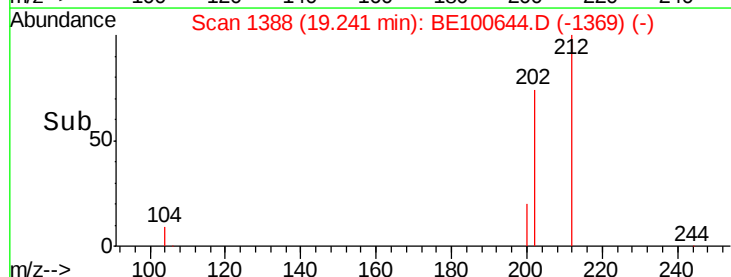
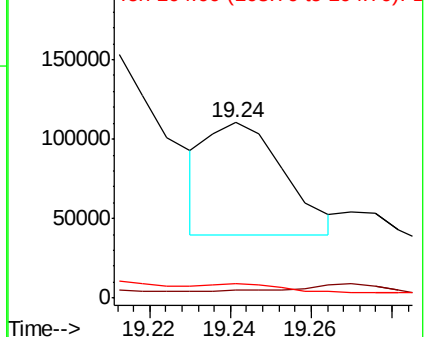
212 100

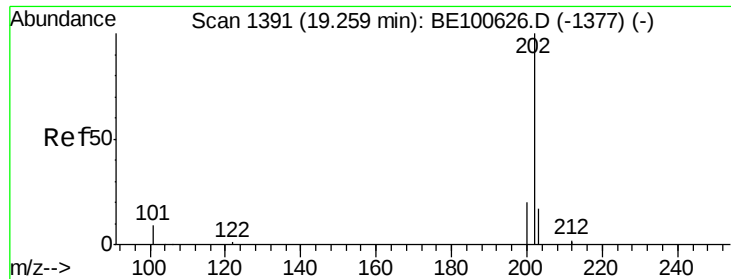
106 2.5 2.2 3.4

104 10.5 1.3 1.9#



Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E





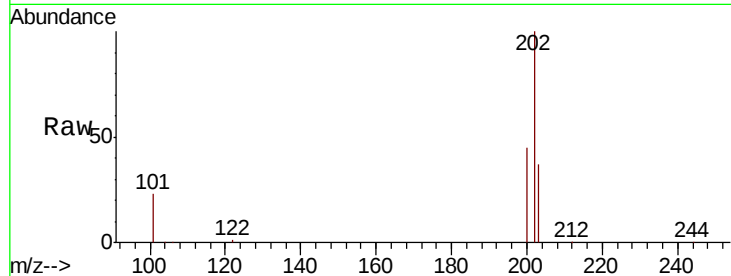
#26
Fluoranthene
Concen: 82.728 ng
RT: 19.29 min Scan# 1396
Delta R.T. 0.03 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

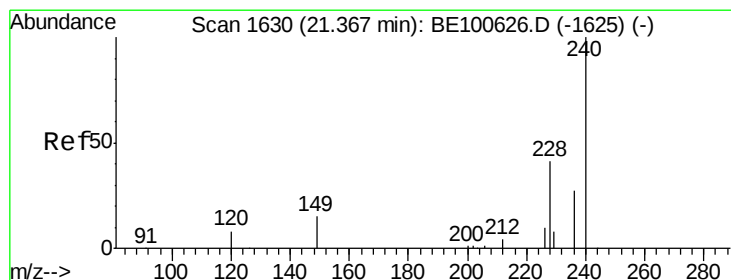
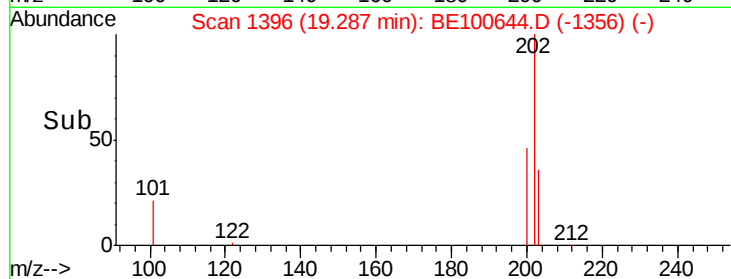
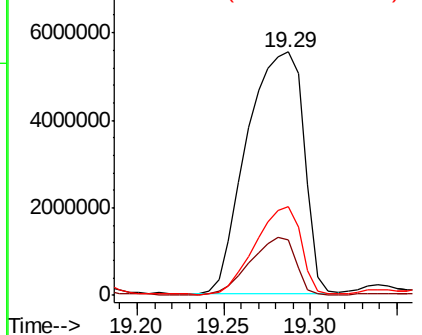
Tot Ion:202 Resp:12666304
Ion Ratio Lower Upper
202 100
101 18.8 8.4 12.6#
203 29.1 13.8 20.6#

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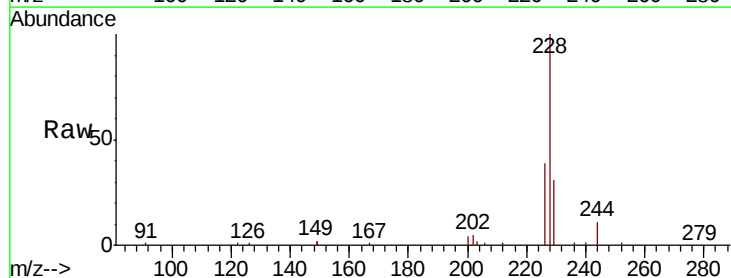


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

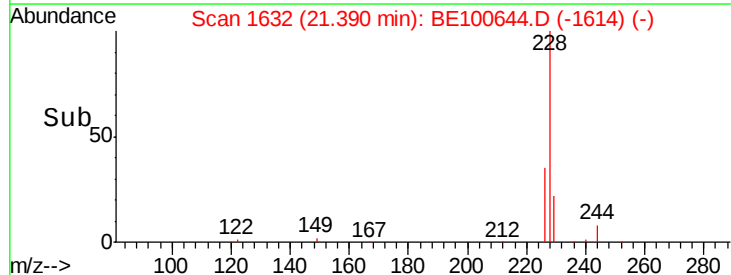
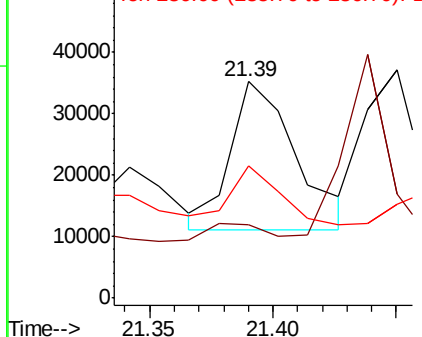


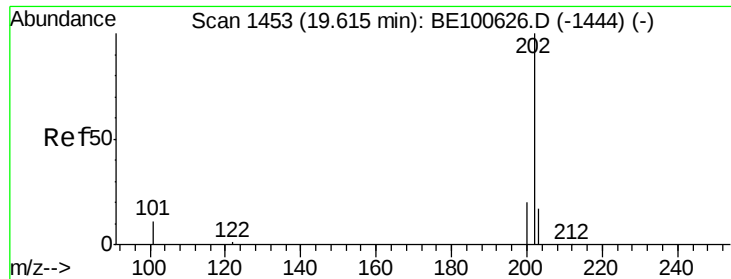
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.39 min Scan# 1632
Delta R.T. 0.02 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion:240 Resp: 44923
Ion Ratio Lower Upper
240 100
120 34.0 7.4 11.0#
236 61.3 21.7 32.5#



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





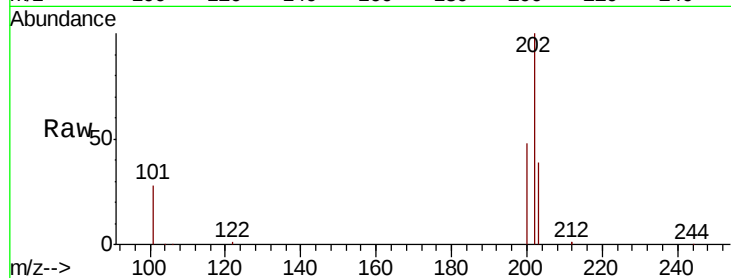
#28
Pvrene
Concen: 118.478 ng
RT: 19.65 min Scan# 1459
Delta R.T. 0.03 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

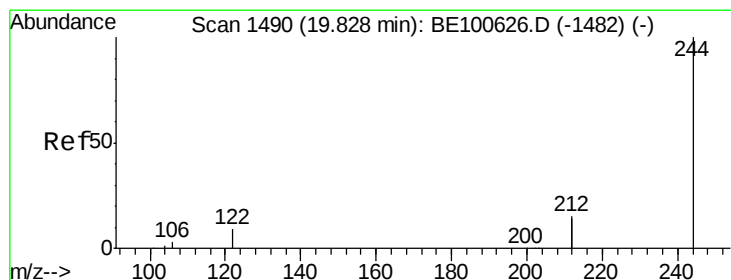
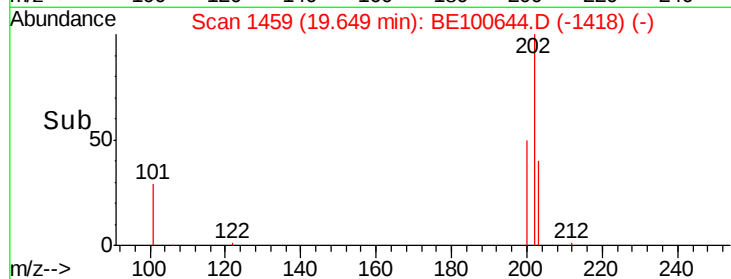
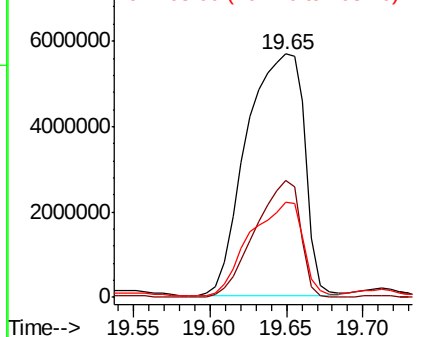
Tot Ion:202 Resp:14869980
Ion Ratio Lower Upper
202 100
200 37.8 16.6 24.8#
203 35.7 13.9 20.9#

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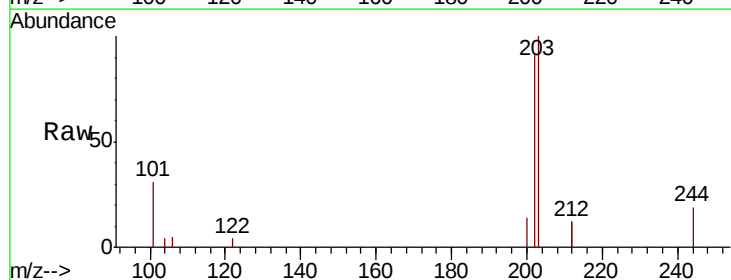


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

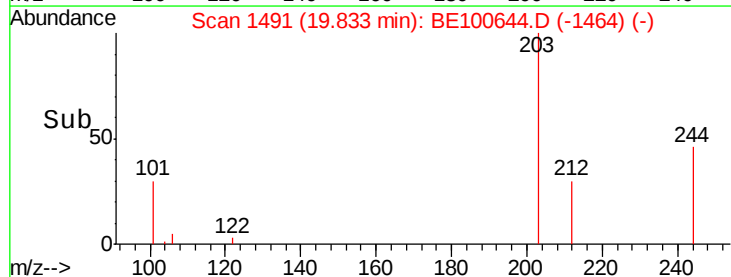
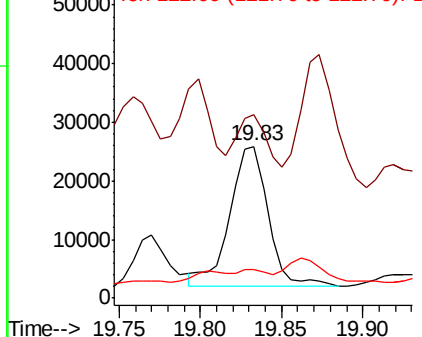


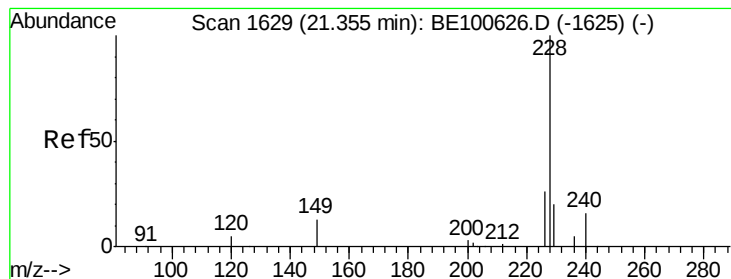
#29
Terphenyl-d14
Concen: 0.398 ng
RT: 19.83 min Scan# 1491
Delta R.T. 0.01 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion:244 Resp: 39104
Ion Ratio Lower Upper
244 100
212 120.8 23.9 35.9#
122 19.2 7.7 11.5#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 71.975 ng

RT: 21.38 min Scan# 1631

Delta R.T. 0.02 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

ClientSampleId :

EXT-SW093-091819-2

Tot Ion:228 Resp:10547337

Ion Ratio Lower Upper

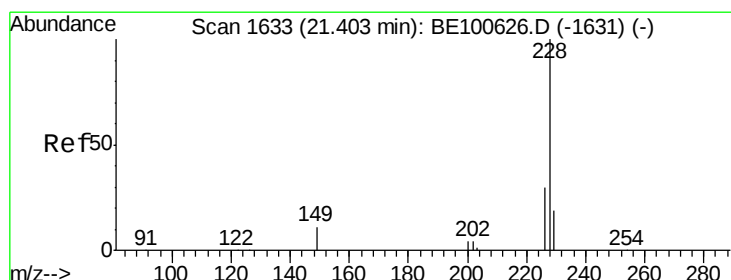
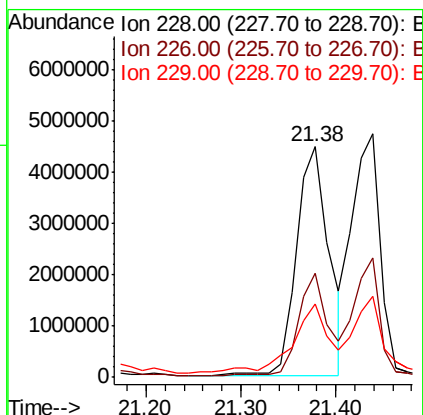
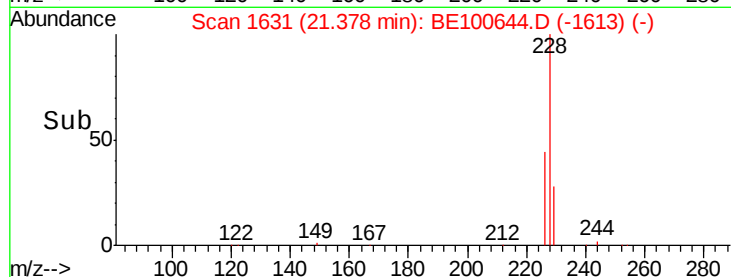
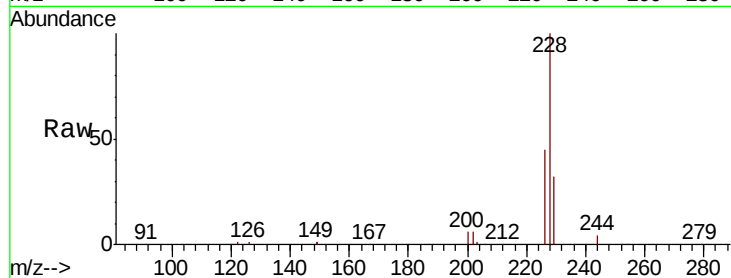
228 100

226 45.2 21.0 31.6#

229 31.6 15.8 23.8#

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#31

Chrysene

Concen: 64.730 ng

RT: 21.44 min Scan# 1636

Delta R.T. 0.04 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

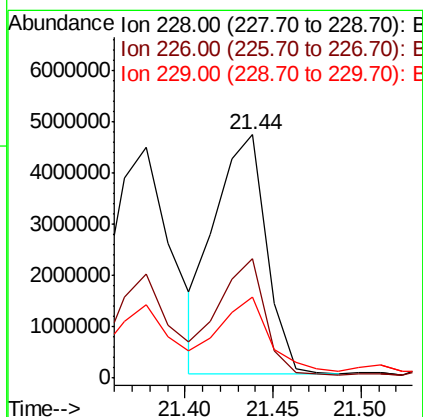
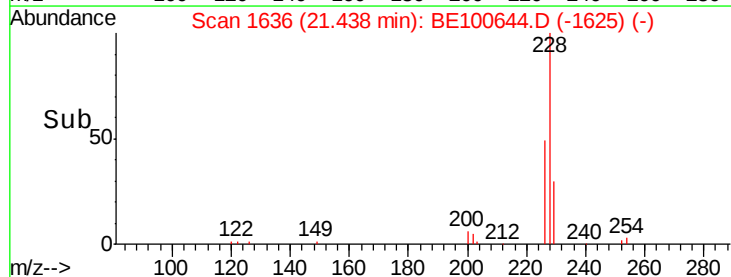
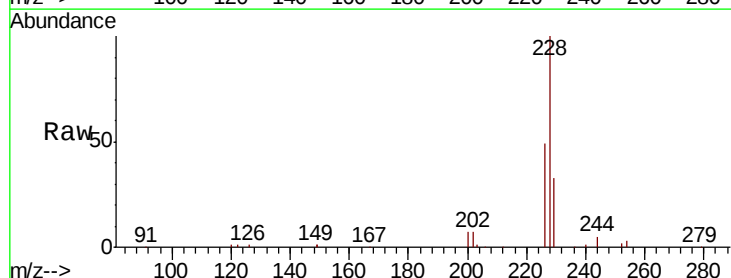
Tgt Ion:228 Resp: 9479625

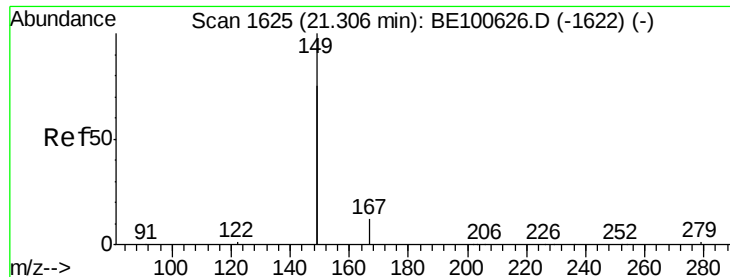
Ion Ratio Lower Upper

228 100

226 49.1 24.5 36.7#

229 33.1 15.6 23.4#





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.517 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.00 min

Lab File: BE100644.D

Acq: 15 Oct 2019 11:03

Instrument :

BNA_E

ClientSampleId :

EXT-SW093-091819-2

Tot Ion:149 Resp: 158313
Ion Ratio Lower Upper

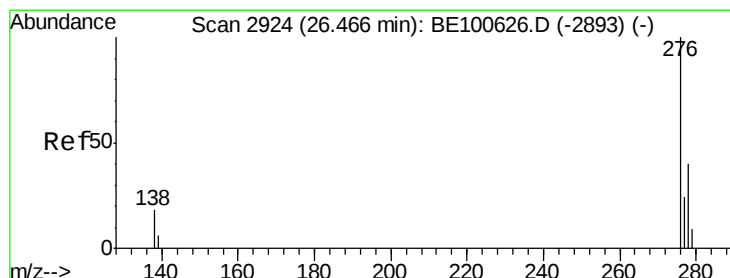
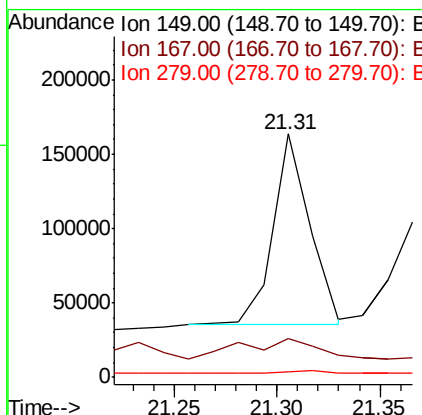
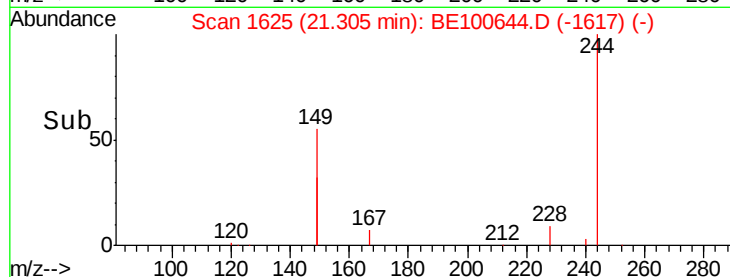
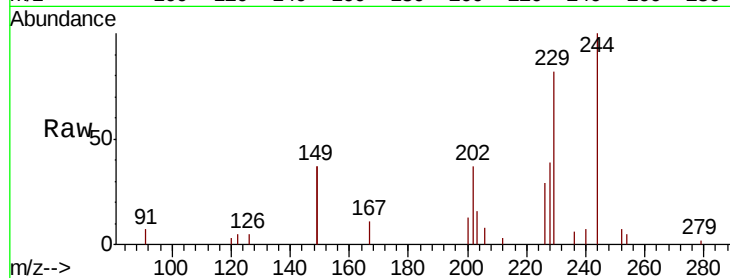
149 100

167 22.1 5.4 8.2#

279 2.3 1.5 2.3#

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#33

Indeno(1,2,3-cd)pyrene

Concen: 36.113 ng

RT: 26.57 min Scan# 2952

Delta R.T. 0.10 min

Lab File: BE100644.D

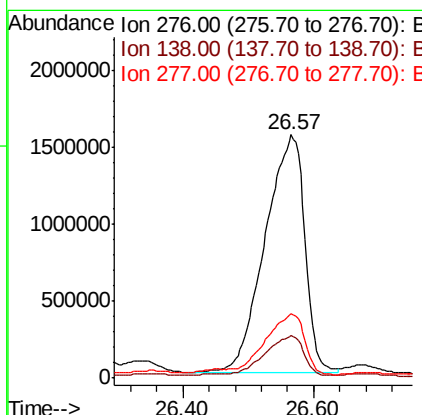
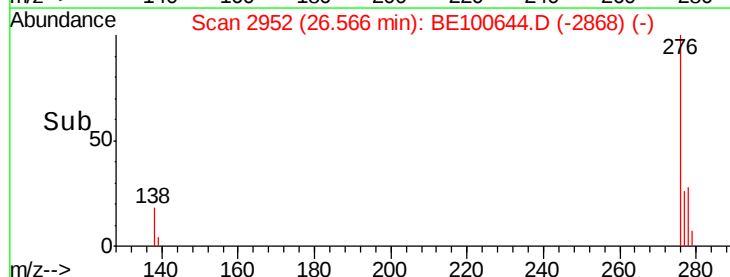
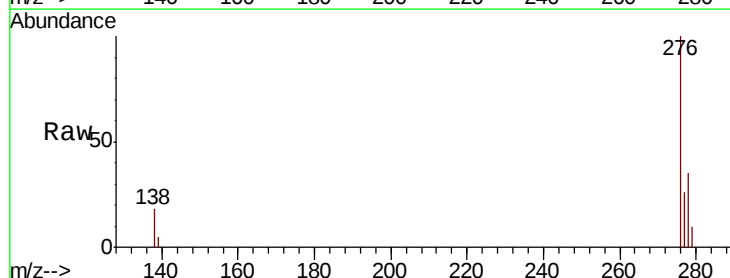
Acq: 15 Oct 2019 11:03

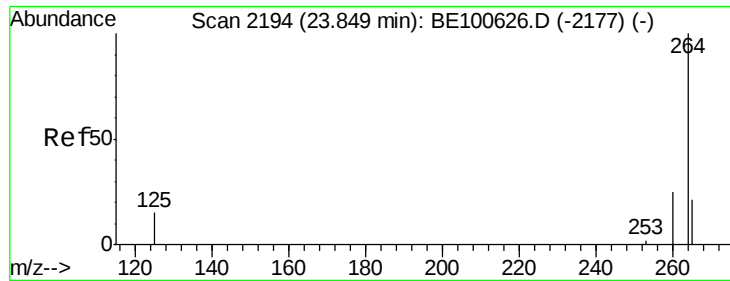
Tgt Ion:276 Resp: 6500057
Ion Ratio Lower Upper

276 100

138 16.2 16.0 24.0

277 25.2 19.7 29.5





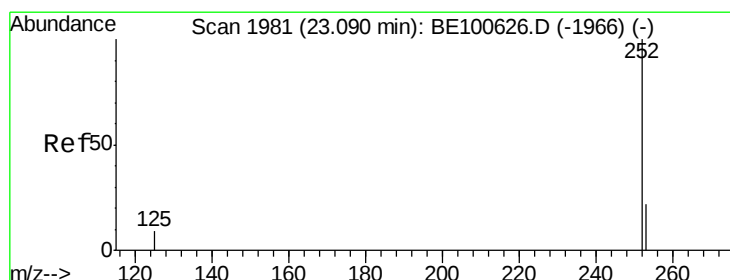
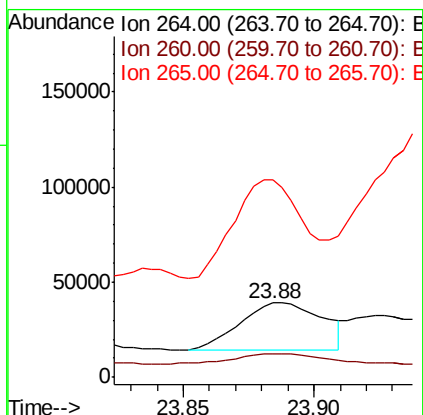
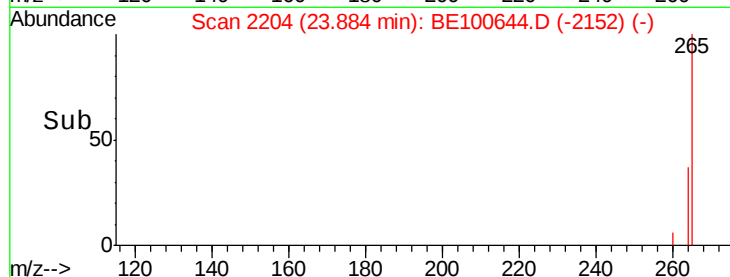
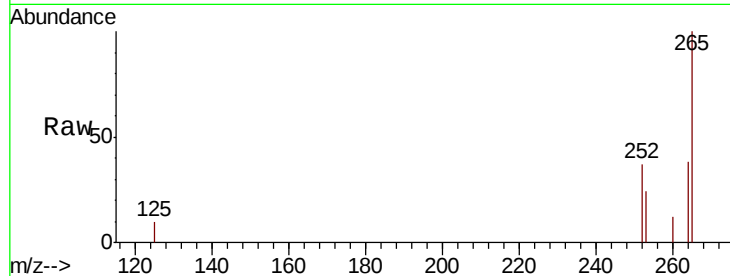
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.88 min Scan# 2204
Delta R.T. 0.04 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

Tot Ion	Ratio	Lower	Upper
264	100		
260	31.7	19.9	29.9#
265	265.3	20.0	30.0#

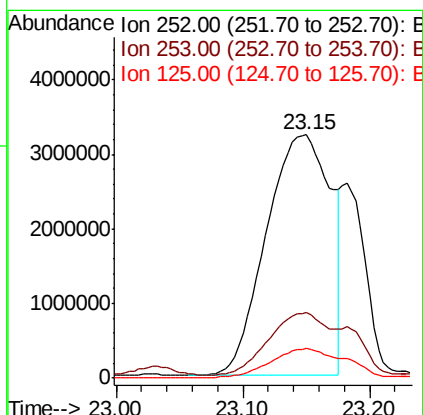
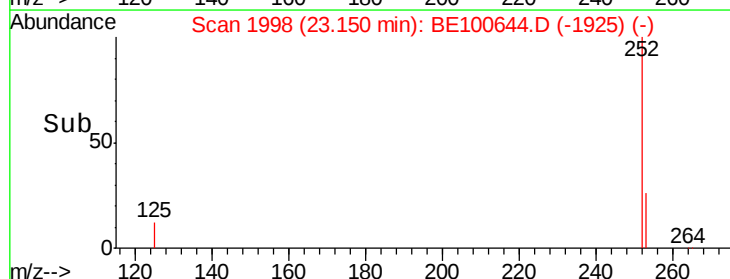
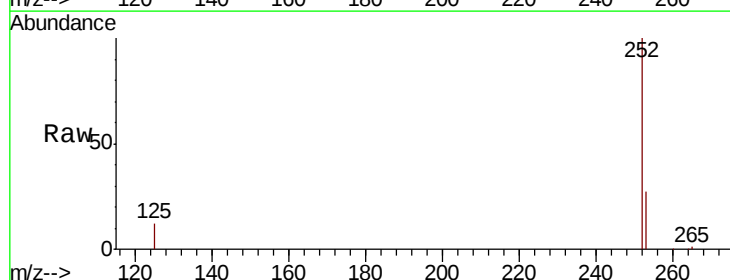
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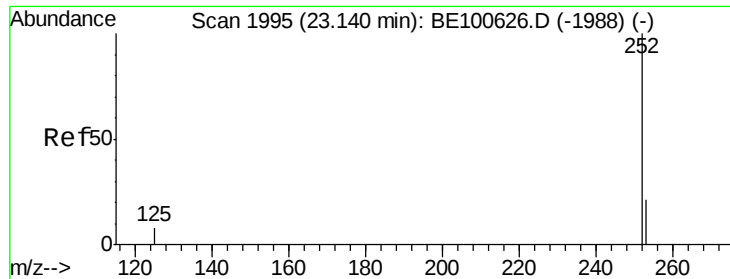
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#35
Benzo(b)fluoranthene
Concen: 73.008 ng
RT: 23.15 min Scan# 1998
Delta R.T. 0.06 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.8	17.8	26.8#
125	12.1	7.6	11.4#





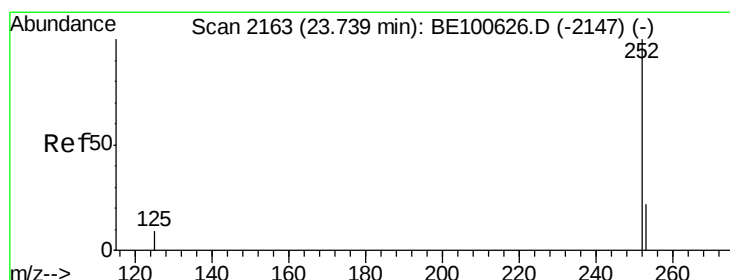
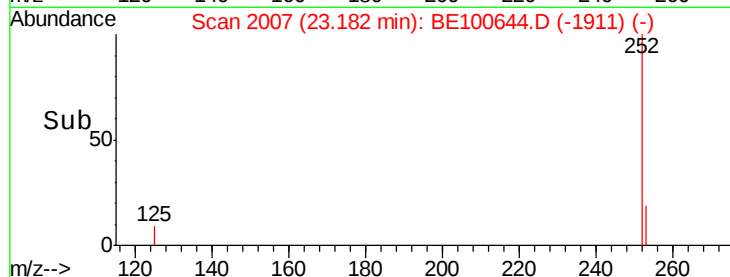
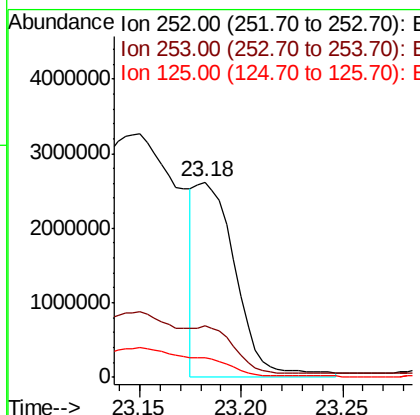
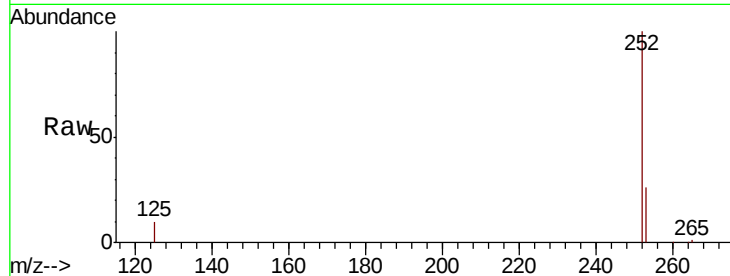
#36
Benzo(k)fluoranthene
Concen: 22.644 ng m
RT: 23.18 min Scan# 2007
Delta R.T. 0.04 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

Tot Ion:252 Resp: 3622977
Ion Ratio Lower Upper
252 100
253 26.2 17.8 26.6
125 9.9 7.6 11.4

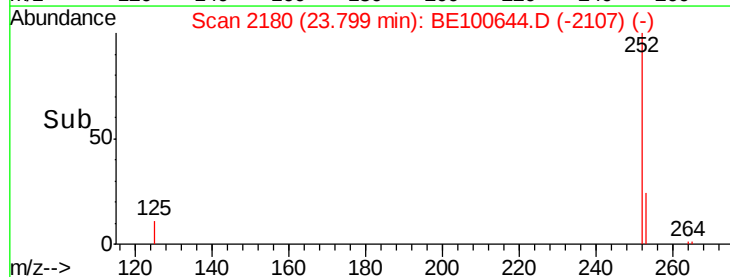
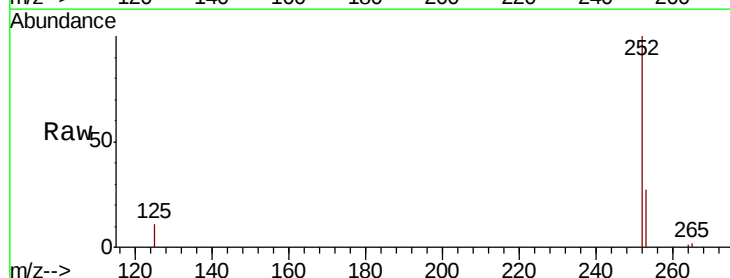
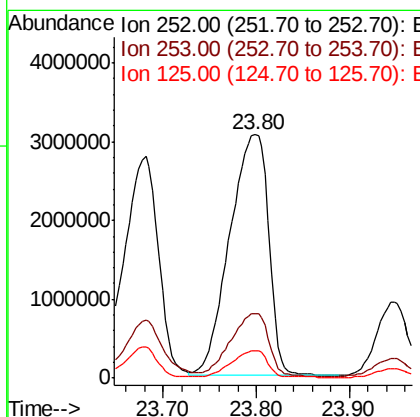
Manual Integrations
APPROVED

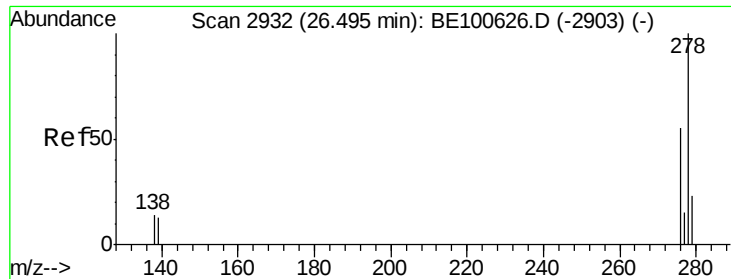
mohammad
10/17/2019 7:56:44 AM



#37
Benzo(a)pyrene
Concen: 61.263 ng
RT: 23.80 min Scan# 2180
Delta R.T. 0.06 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion:252 Resp: 8871472
Ion Ratio Lower Upper
252 100
253 26.6 18.2 27.2
125 11.4 8.1 12.1





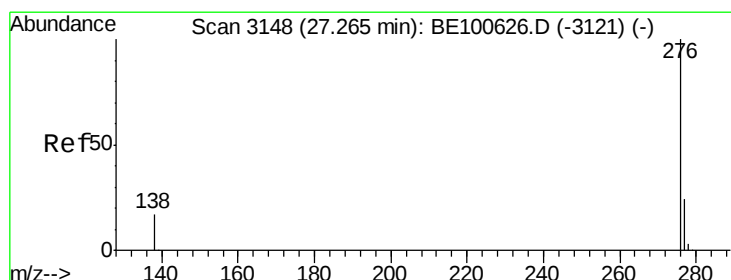
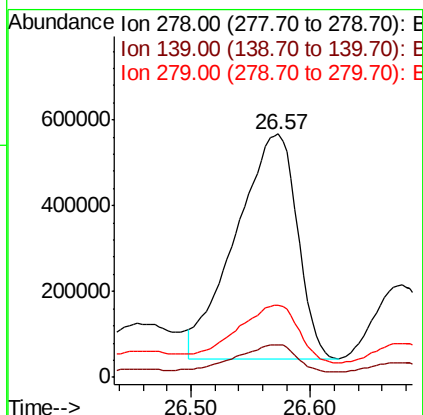
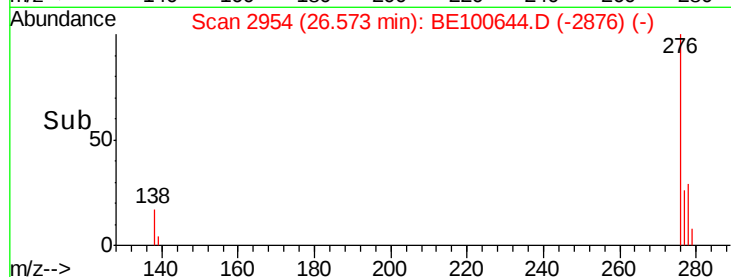
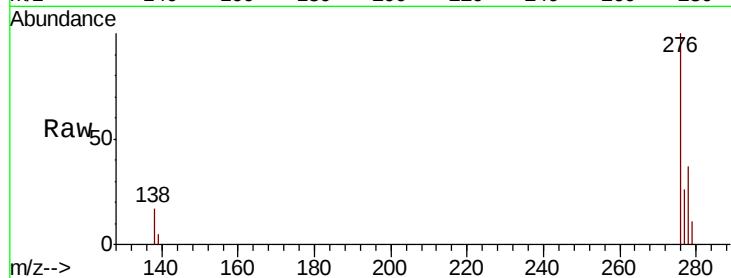
#38
Dibenzo(a,h)anthracene
Concen: 12.532 ng
RT: 26.57 min Scan# 2954
Delta R.T. 0.08 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Instrument :
BNA_E
ClientSampleId :
EXT-SW093-091819-2

Tot Ion:278 Resp: 1875778
Ion Ratio Lower Upper
278 100
139 13.5 11.2 16.8
279 29.7 19.0 28.6#

Manual Integrations
APPROVED

mohammad
10/17/2019 7:56:44 AM



#39
Benzo(g,h,i)perylene
Concen: 45.693 ng
RT: 27.39 min Scan# 3182
Delta R.T. 0.12 min
Lab File: BE100644.D
Acq: 15 Oct 2019 11:03

Tgt Ion:276 Resp: 6878308
Ion Ratio Lower Upper
276 100
277 25.5 19.3 28.9
138 16.8 14.5 21.7

