

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
 Data File : BE100218.D
 Acq On : 27 Jun 2019 23:18
 Operator : JU/SJ
 Sample : K3428-06
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW160-061319

Manual Integrations
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mohammad
 7/1/2019 8:12:23 AM

Quant Time: Jun 28 06:03:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 28 05:41:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	958	0.40	ng	0.00
7) Naphthalene-d8	10.44	136	3355	0.40	ng	0.00
13) Acenaphthene-d10	14.33	164	2609	0.40	ng	0.00
19) Phenanthrene-d10	17.07	188	7328	0.40	ng	0.00
27) Chrysene-d12	21.25	240	9427	0.40	ng	0.00
34) Perylene-d12	23.67	264	11606	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	785	0.37	ng	0.00
5) Phenol-d6	6.83	99	1095	0.37	ng	-0.02
8) Nitrobenzene-d5	8.82	82	1015	0.30	ng	-0.01
11) 2-Methylnaphthalene-d10	12.05	152	2415	0.38	ng	-0.02
14) 2,4,6-Tribromophenol	15.81	330	554	0.37	ng	-0.03
15) 2-Fluorobiphenyl	12.94	172	3026	0.29	ng	-0.02
25) Fluoranthene-d10	19.10	212	37089	0.35	ng	0.00
29) Terphenyl-d14	19.70	244	5575	0.30	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.50	128	11388	0.311	ng	98
12) 2-Methylnaphthalene	12.12	142	2462	0.418	ng	96
16) Acenaphthylene	14.04	152	19238	1.512	ng	98
17) Acenaphthene	14.38	154	2122	0.298	ng	93
18) Fluorene	15.37	166	6806	0.660	ng	# 85
22) Pentachlorophenol	16.73	266	27	0.287	ng	96
23) Phenanthrene	17.11	178	130714	7.531	ng	99
24) Anthracene	17.20	178	15417	1.052	ng	98
26) Fluoranthene	19.13	202	187337	6.634	ng	98
28) Pvrene	19.49	202	290844	12.047	ng	96
30) Benzo(a)anthracene	21.23	228	169974	6.116	ng	93
31) Chrysene	21.28	228	176320	5.409	ng	95
32) Bis(2-ethylhexyl)phthalate	21.16	149	22235	0.696	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.23	276	90460	1.949	ng	# 95
35) Benzo(b)fluoranthene	22.93	252	161391	5.170	ng	# 98
36) Benzo(k)fluoranthene	22.97	252	49237m	1.318	ng	
37) Benzo(a)pvrene	23.56	252	136185m	4.210	ng	
38) Dibenzo(a,h)anthracene	26.24	278	27176	0.785	ng	# 91
39) Benzo(q,h,i)perylene	27.02	276	105553	2.922	ng	# 97

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

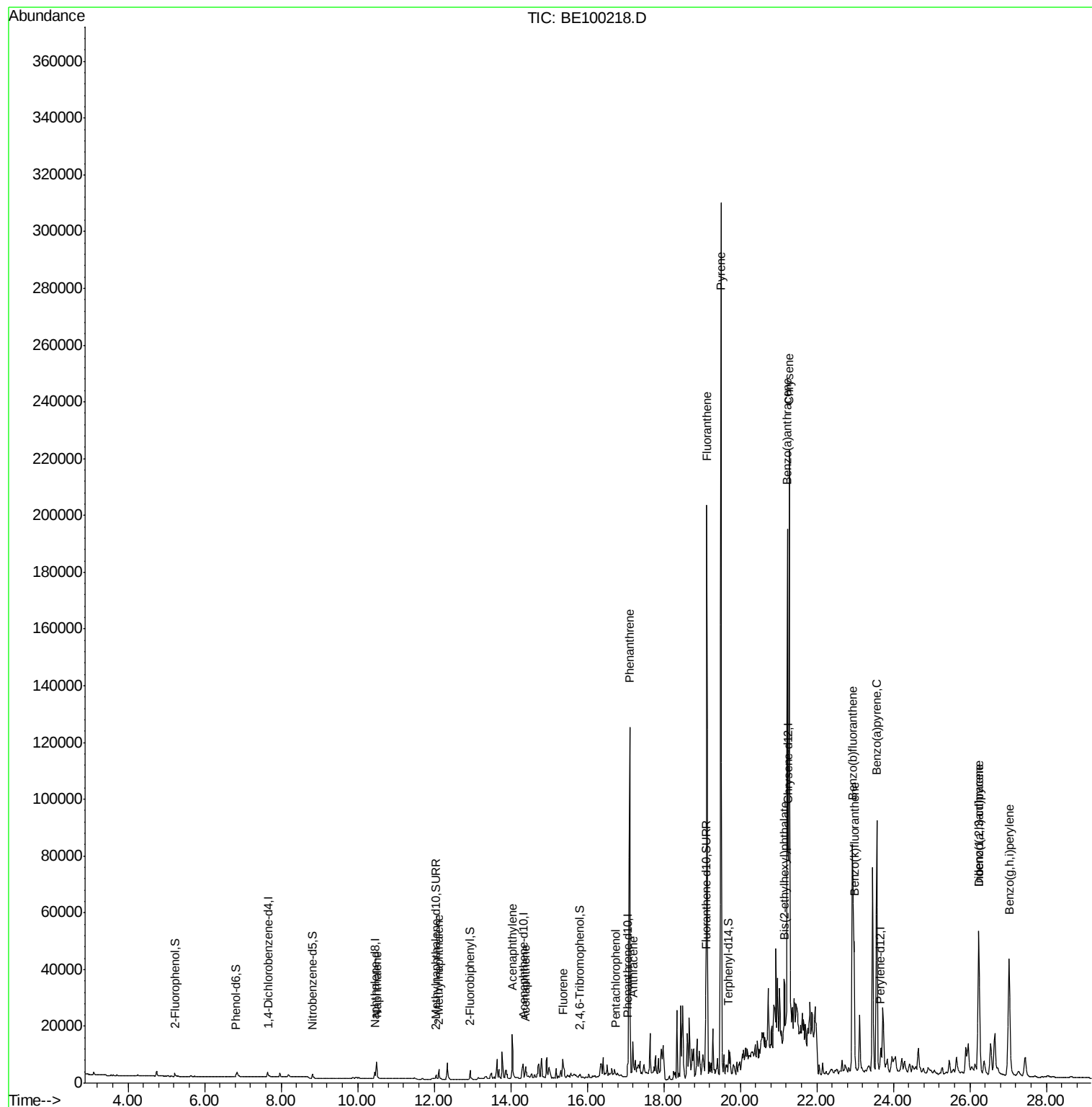
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062719\
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#1

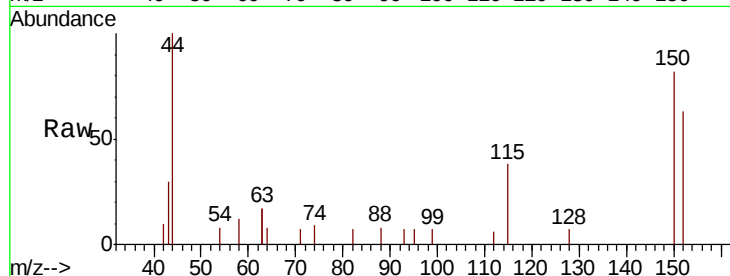
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.65 min Scan# 416
Delta R.T. 0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
152	100		
150	130.7	113.4	170.2
115	61.0	55.8	83.6

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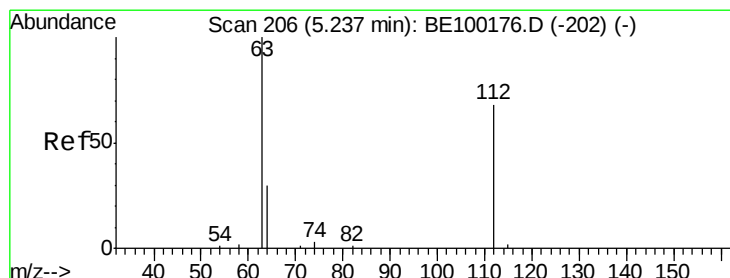
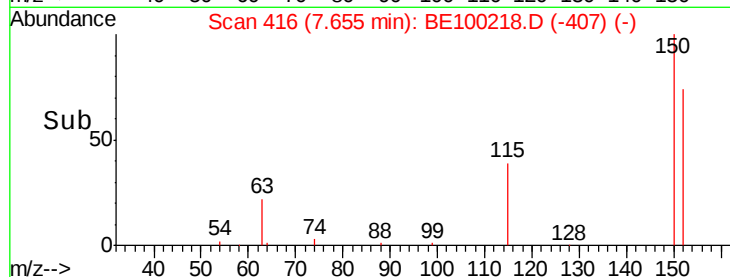
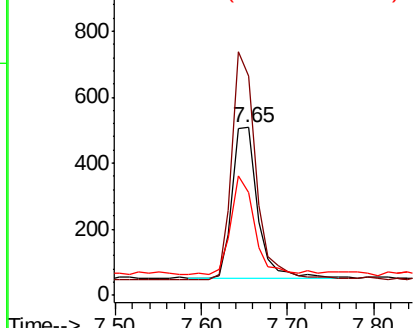


Abundance

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: 0.369 ng
RT: 5.22 min Scan# 205
Delta R.T. 0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

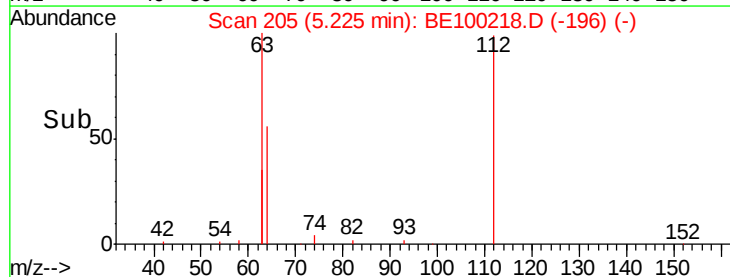
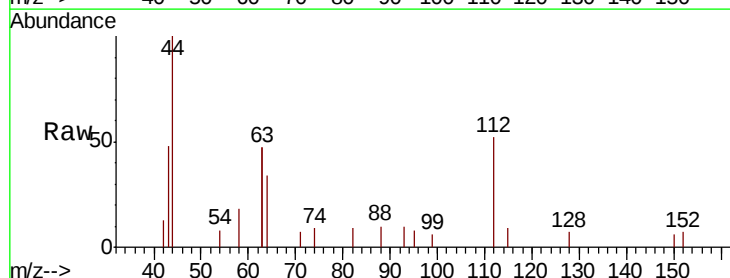
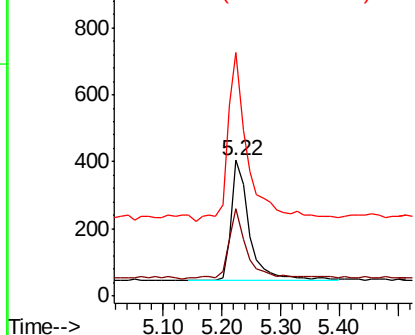
Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	40.7	61.1
63	153.1	93.2	139.8

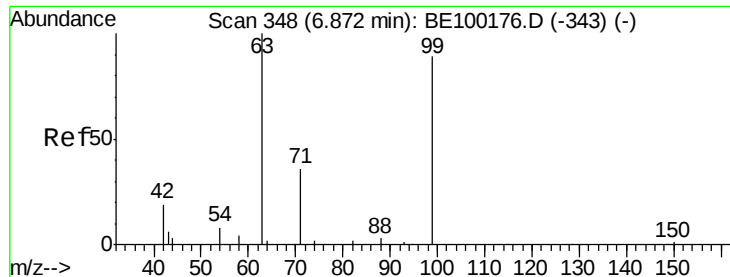
Abundance

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: 0.374 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.02 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Instrument :

BNA_E

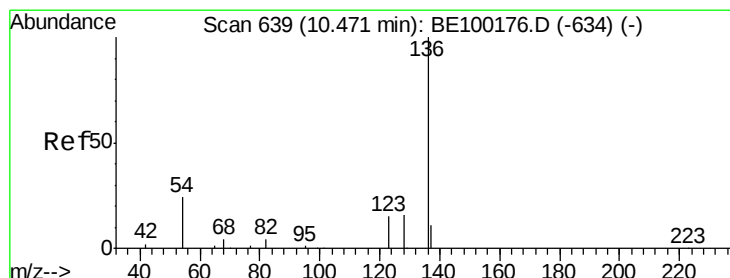
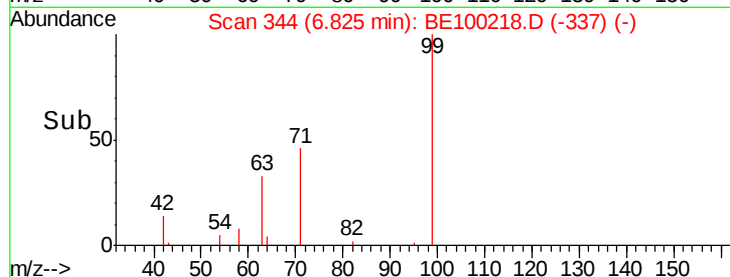
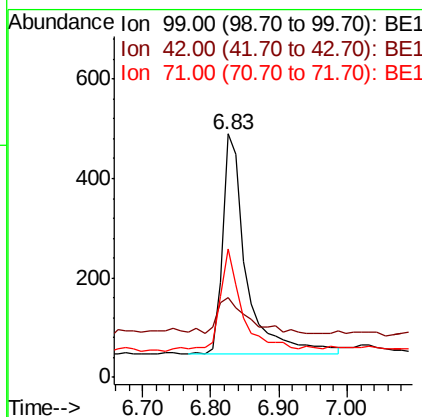
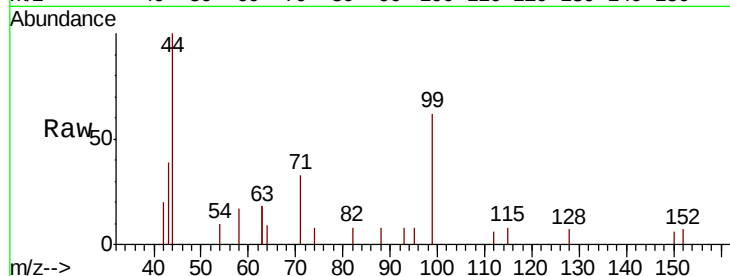
ClientSampleId :

EXT-013-SW160-061319

Tot Ion:	99	Resp:	1095
Ion Ratio	Lower	Upper	
99	100		
42	21.0	10.4	15.6#
71	38.5	32.4	48.6

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#7

Naphthalene-d8

Concen: 0.400 ng

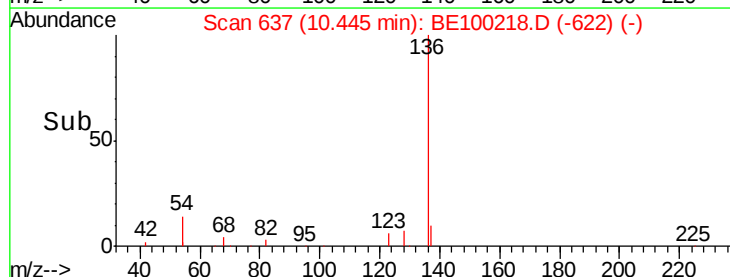
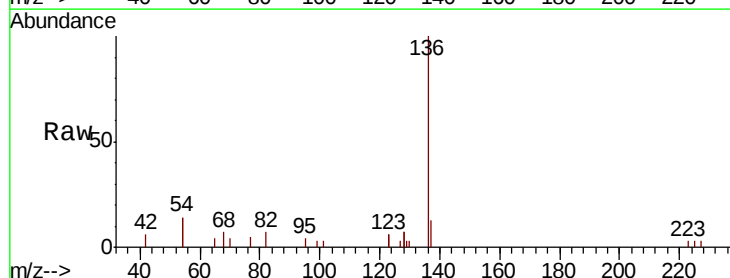
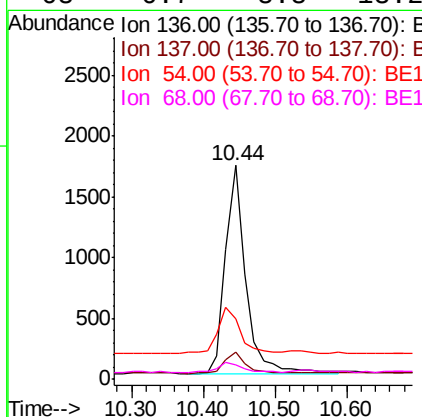
RT: 10.44 min Scan# 637

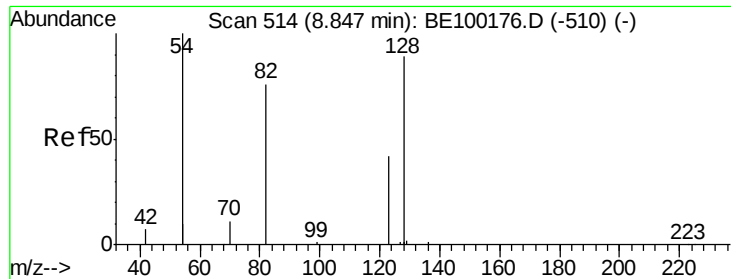
Delta R.T. 0.00 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Tgt Ion:	136	Resp:	3355
Ion Ratio	Lower	Upper	
136	100		
137	12.8	13.8	20.8#
54	28.0	35.4	53.2#
68	6.7	8.8	13.2#





#8

Nitrobenzene-d5

Concen: 0.304 ng

RT: 8.82 min Scan# 512

Delta R.T. -0.01 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Instrument :

BNA_E

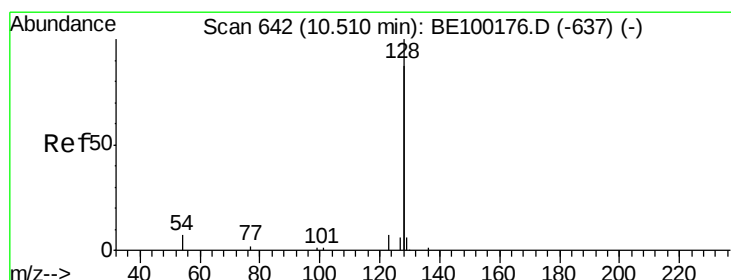
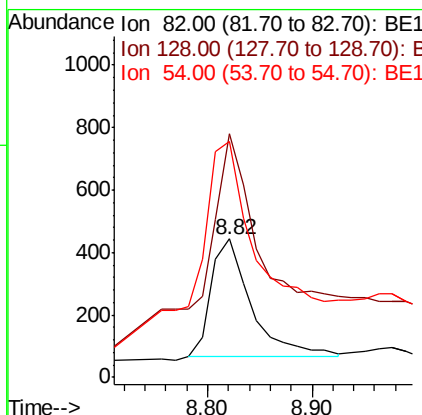
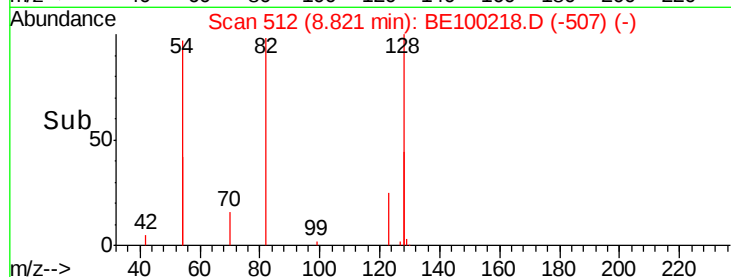
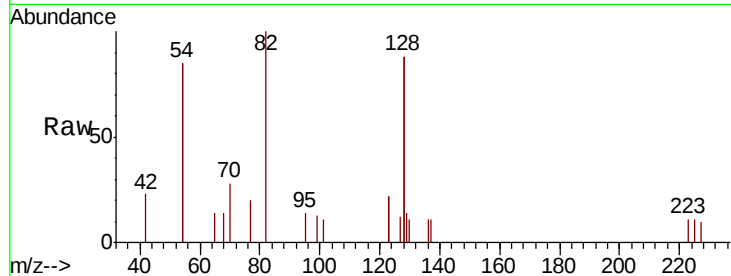
ClientSampleId :

EXT-013-SW160-061319

Tot Ion:	82	Resp:	1015
Ion	Ratio	Lower	Upper
82	100		
128	176.1	144.6	217.0
54	170.7	163.0	244.6

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#9

Naphthalene

Concen: 0.311 ng

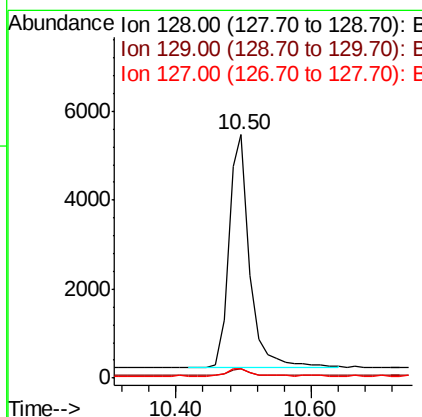
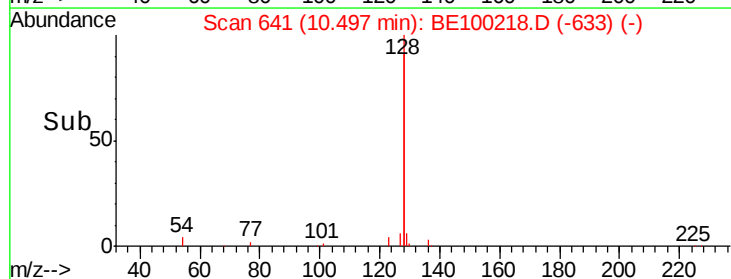
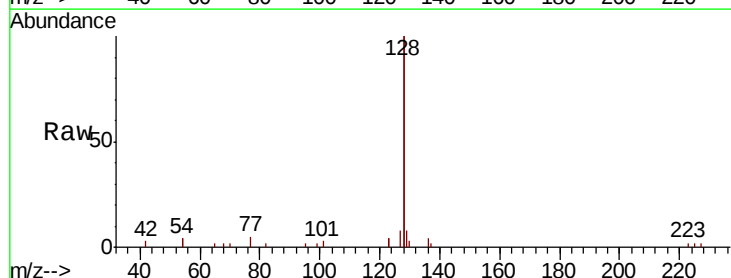
RT: 10.50 min Scan# 641

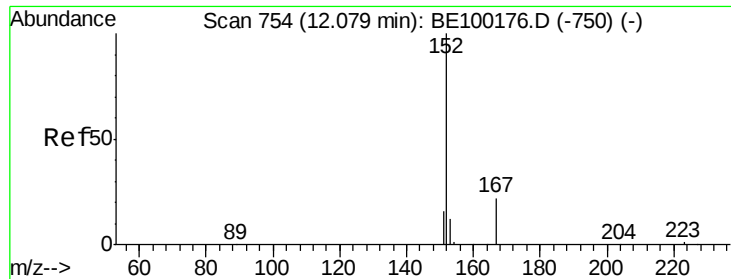
Delta R.T. 0.00 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Tgt Ion:	128	Resp:	11388
Ion	Ratio	Lower	Upper
128	100		
129	3.9	3.6	5.4
127	3.9	3.8	5.8





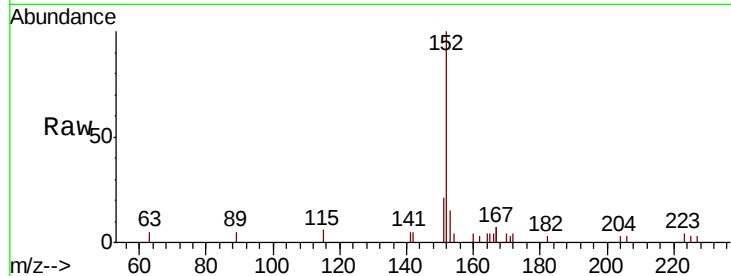
#11
 2-Methylnaphthalene-d10
 Concen: 0.384 ng
 RT: 12.05 min Scan# 752
 Delta R.T. -0.02 min
 Lab File: BE100218.D
 Acq: 27 Jun 2019 23:18

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW160-061319

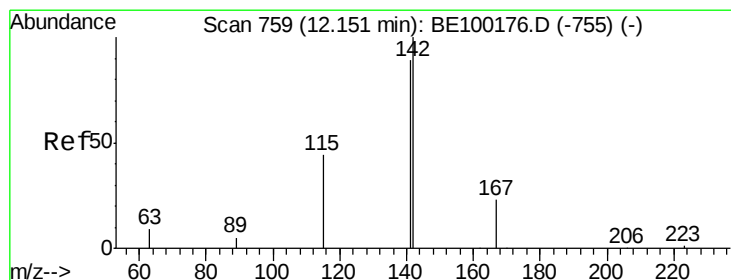
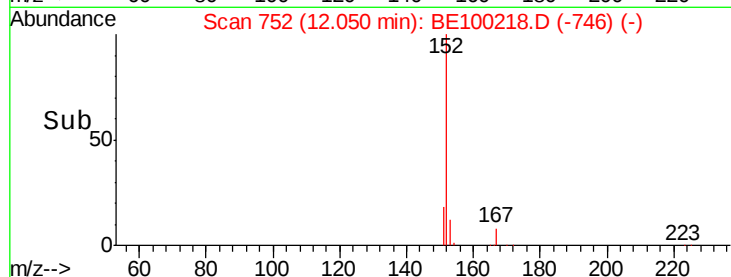
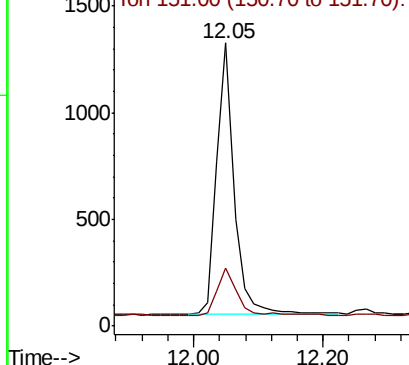
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.3	24.5

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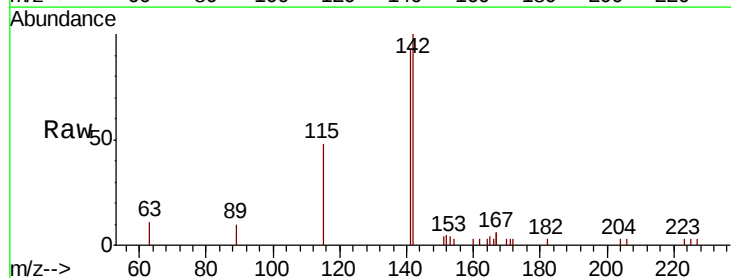


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E

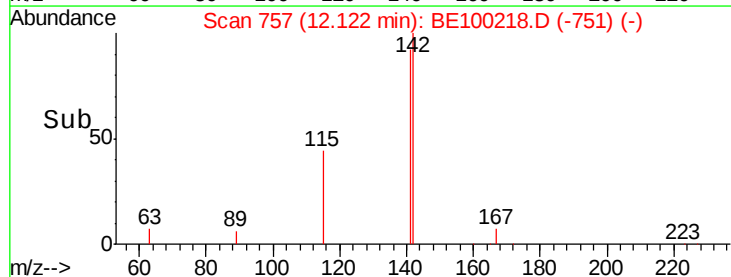
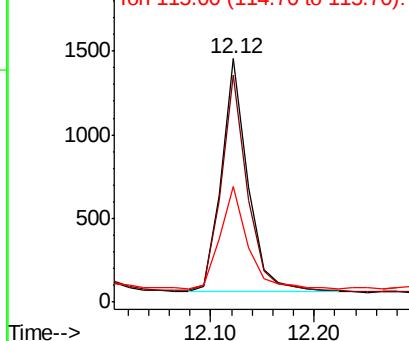


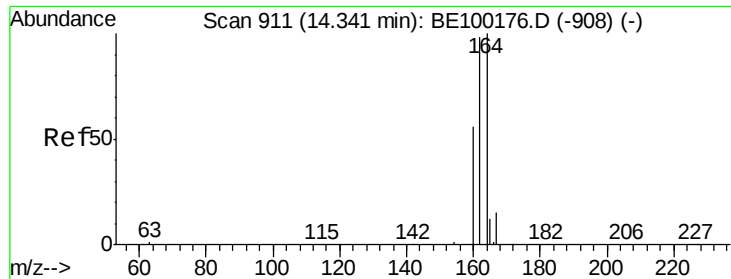
#12
 2-Methylnaphthalene
 Concen: 0.418 ng
 RT: 12.12 min Scan# 757
 Delta R.T. -0.02 min
 Lab File: BE100218.D
 Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.1	71.8	107.8
115	47.6	40.4	60.6



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





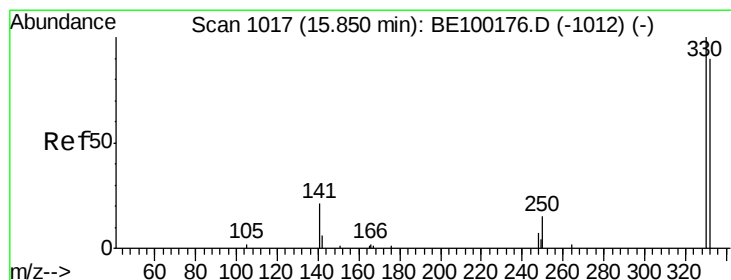
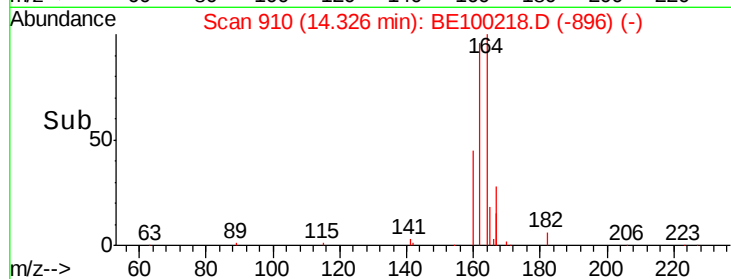
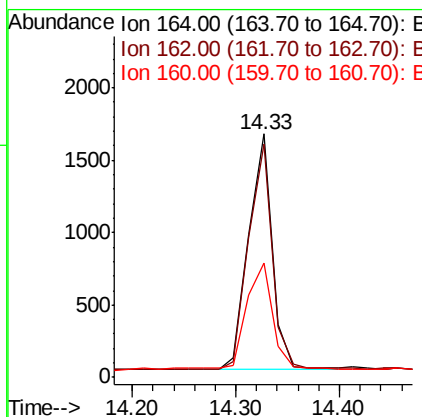
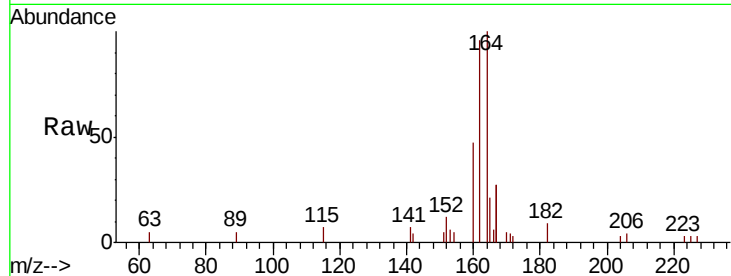
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.33 min Scan# 910
Delta R.T. -0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
164	100		
162	96.1	78.6	118.0
160	46.7	46.9	70.3#

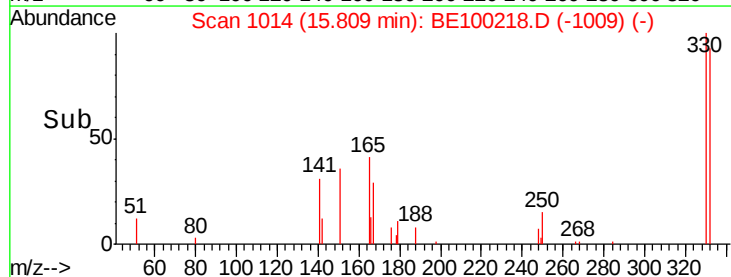
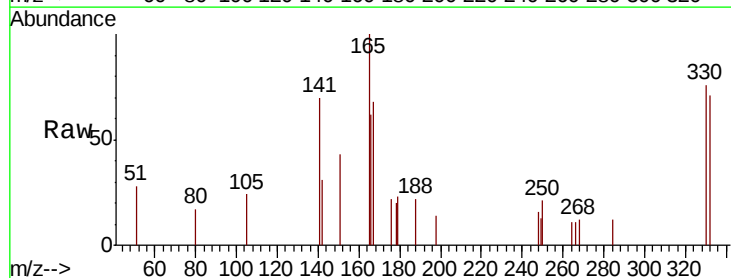
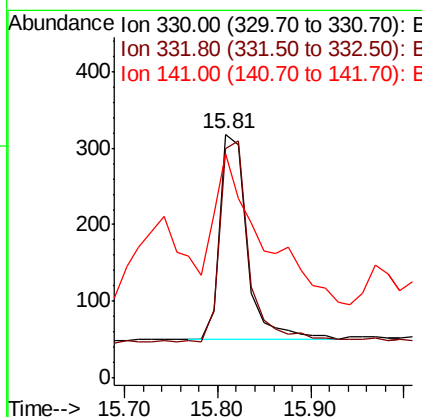
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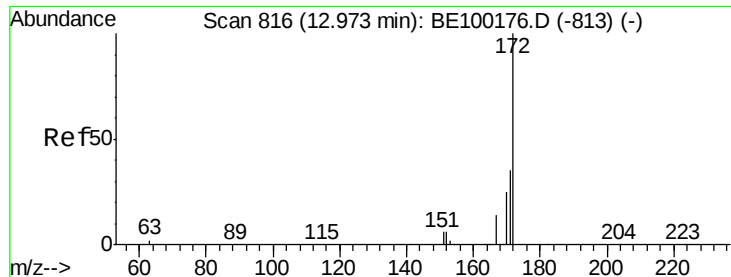
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#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.03 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
330	100		
332	103.1	77.7	116.5
141	126.9	18.9	28.3#





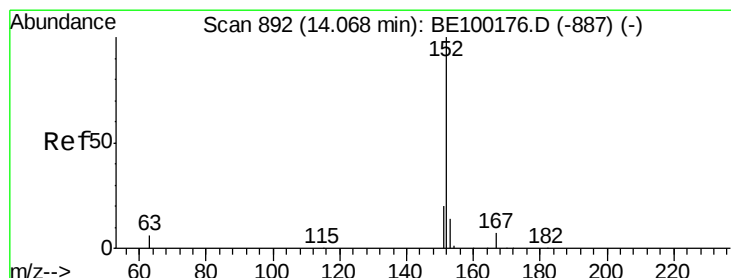
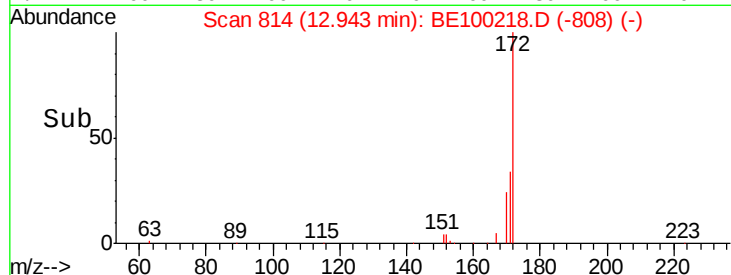
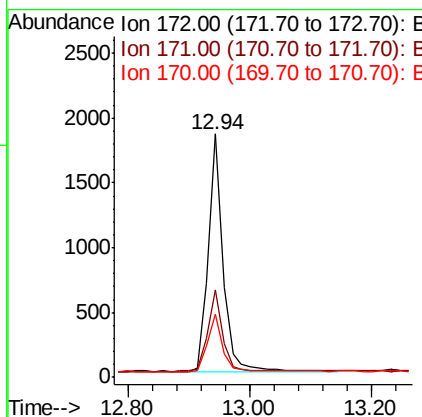
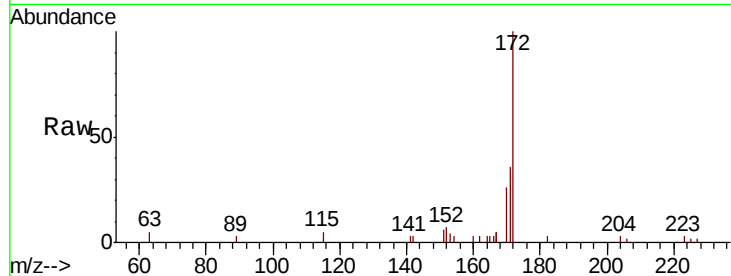
#15
2-Fluorobiphenyl
Concen: 0.289 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.02 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.7	31.0	46.4
170	25.7	23.9	35.9

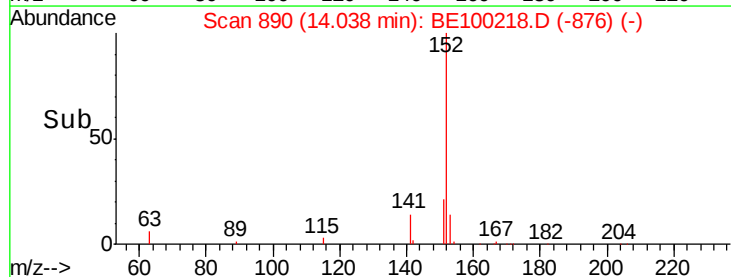
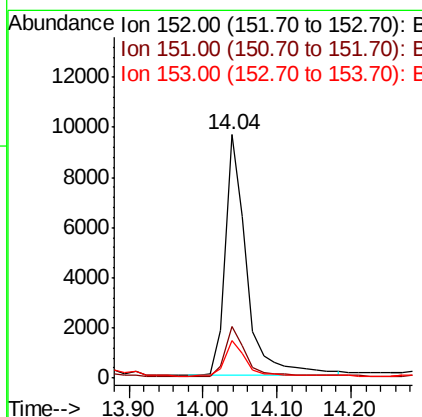
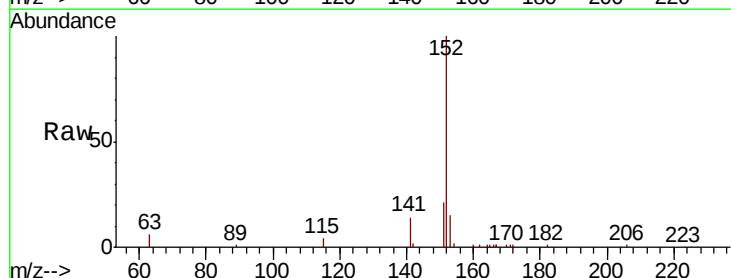
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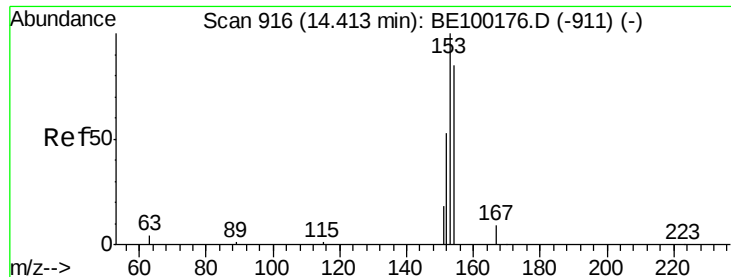
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#16
Acenaphthylene
Concen: 1.512 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.4	23.0
153	14.4	10.8	16.2





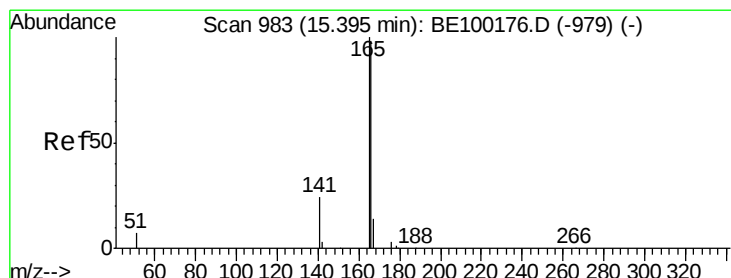
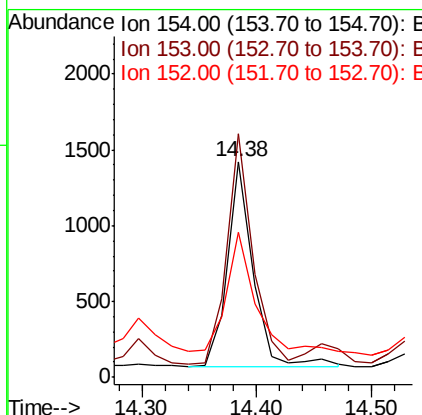
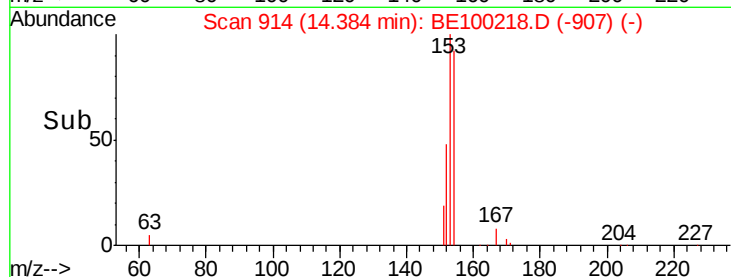
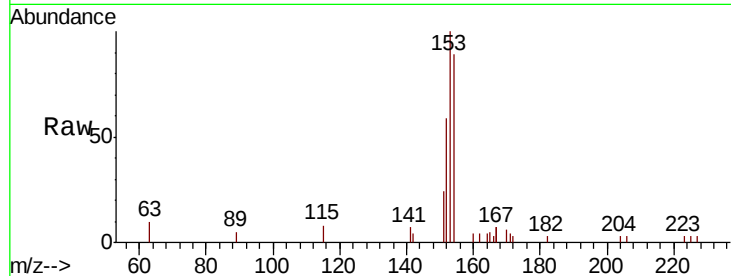
#17
Acenaphthene
Concen: 0.298 ng
RT: 14.38 min Scan# 914
Delta R.T. -0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
154	100		
153	111.1	95.3	142.9
152	61.9	52.9	79.3

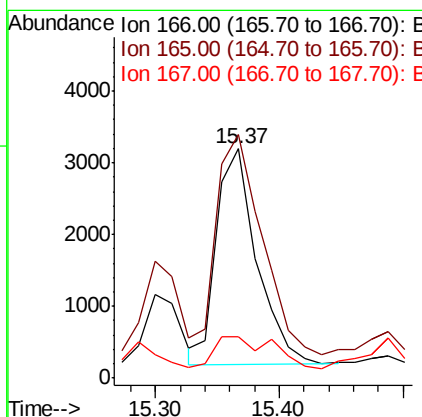
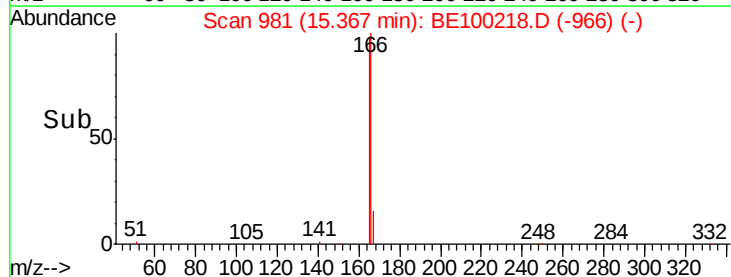
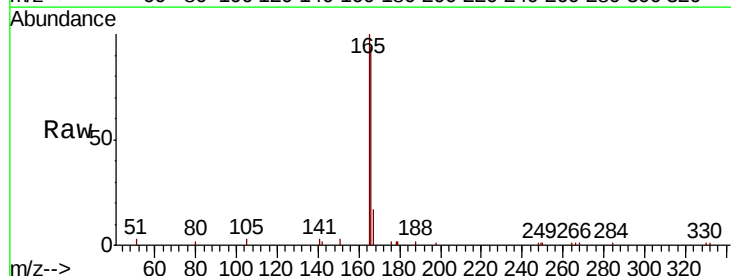
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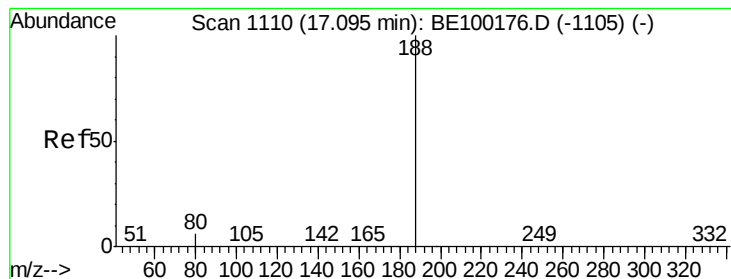
mohammad
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#18
Fluorene
Concen: 0.660 ng
RT: 15.37 min Scan# 981
Delta R.T. 0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
166	100		
165	115.4	81.0	121.4
167	21.5	11.4	17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.07 min Scan# 1108

Delta R.T. 0.00 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Instrument :

BNA_E

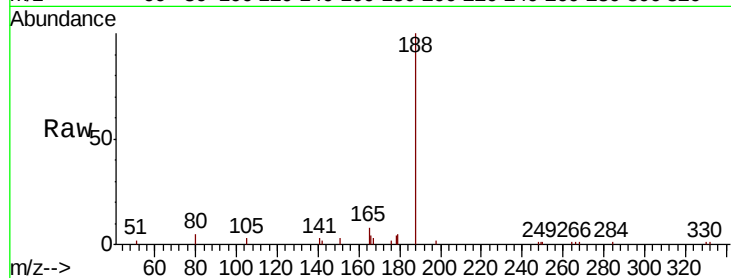
ClientSampleId :

EXT-013-SW160-061319

Tot Ion:	188	Resp:	7328
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	5.2	6.4	9.6#

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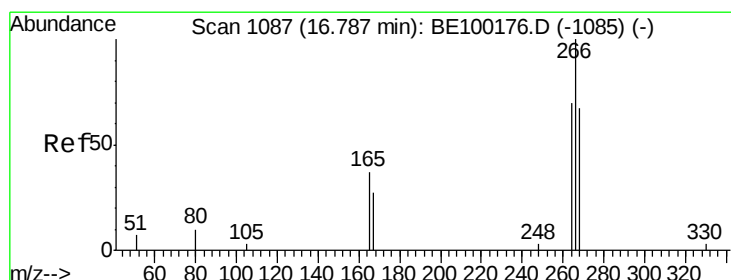
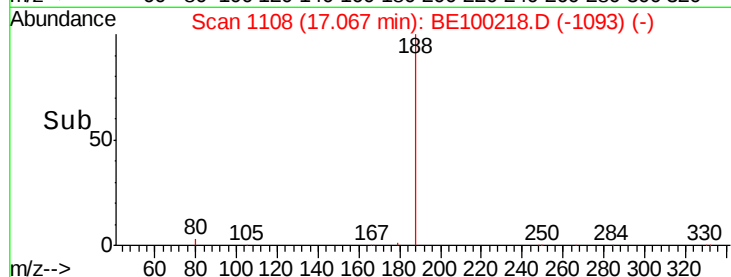
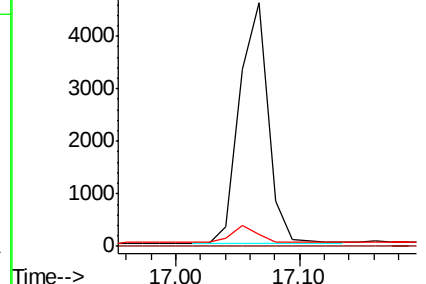
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#22

Pentachlorophenol

Concen: 0.287 ng

RT: 16.73 min Scan# 1083

Delta R.T. 0.01 min

Lab File: BE100218.D

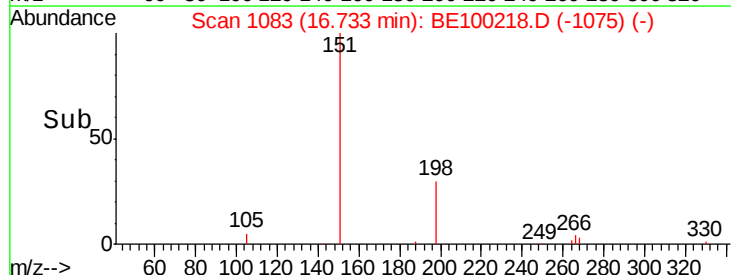
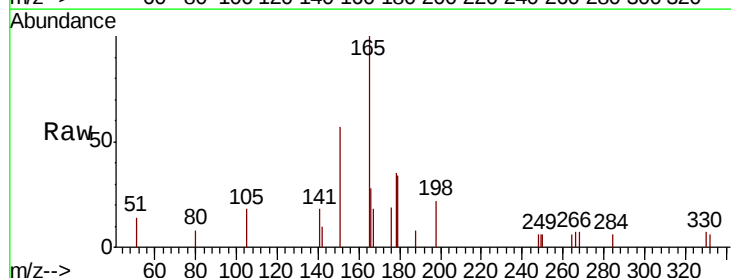
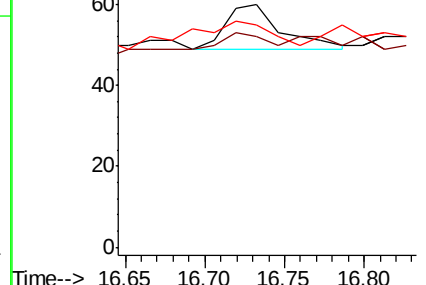
Acq: 27 Jun 2019 23:18

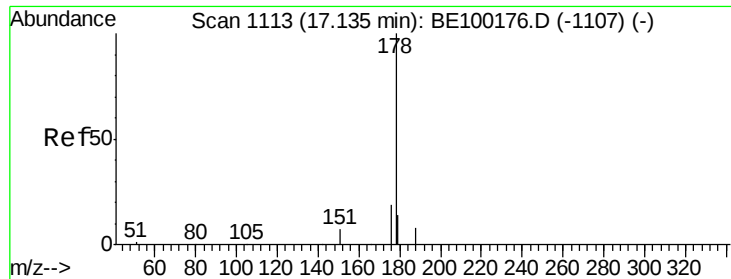
Tgt Ion:	266	Resp:	27
Ion Ratio	Lower	Upper	
266	100		
264	86.7	67.7	101.5
268	91.7	69.8	104.6

Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





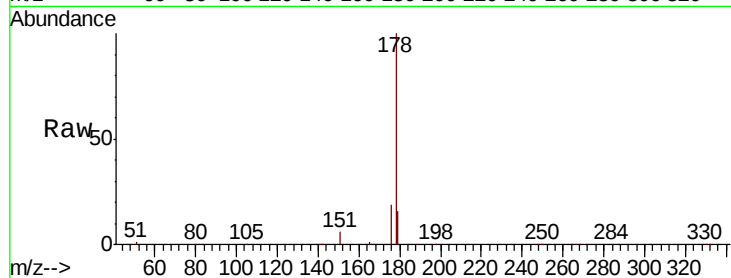
#23
Phenanthrene
Concen: 7.531 ng
RT: 17.11 min Scan# 1111
Delta R.T. 0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.6	12.2	18.2

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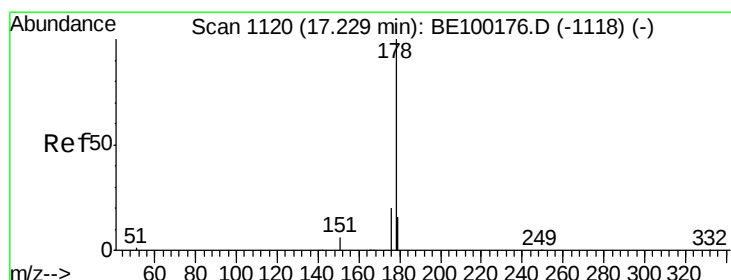
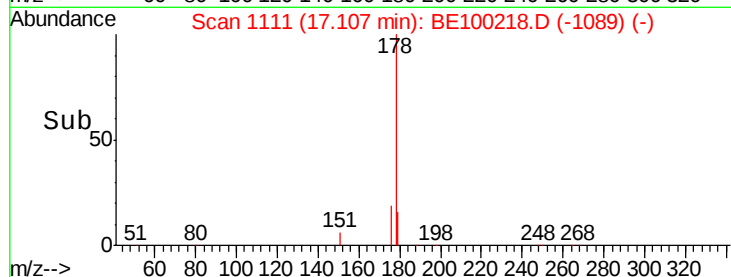
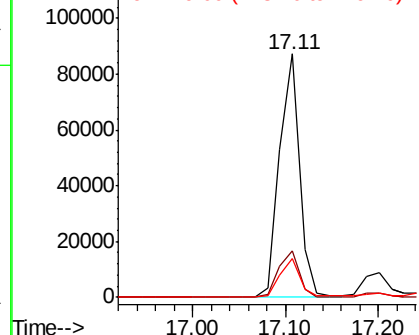


Abundance

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



#24
Anthracene
Concen: 1.052 ng
RT: 17.20 min Scan# 1118
Delta R.T. 0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

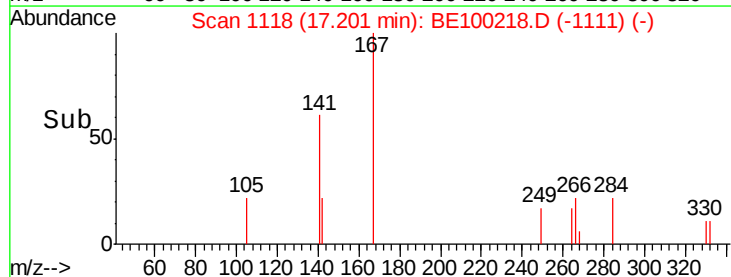
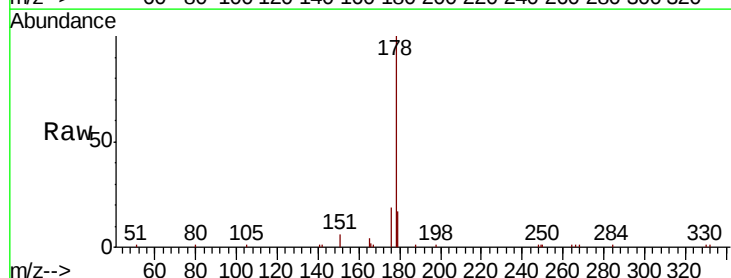
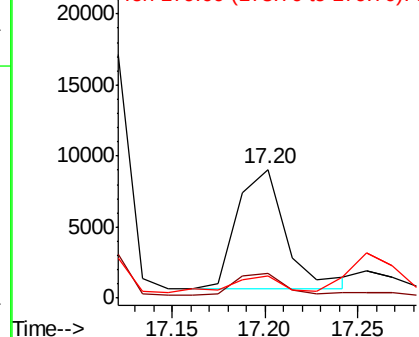
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.7	23.5
179	14.5	12.9	19.3

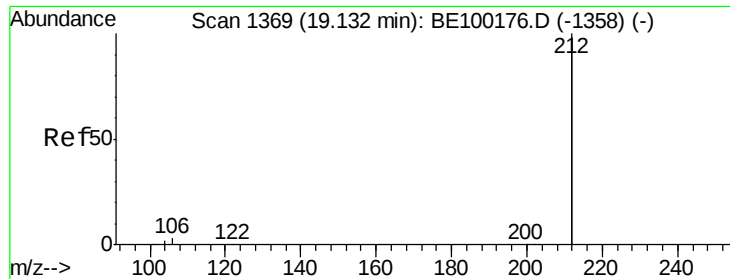
Abundance

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: 0.351 ng

RT: 19.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Instrument :

BNA_E

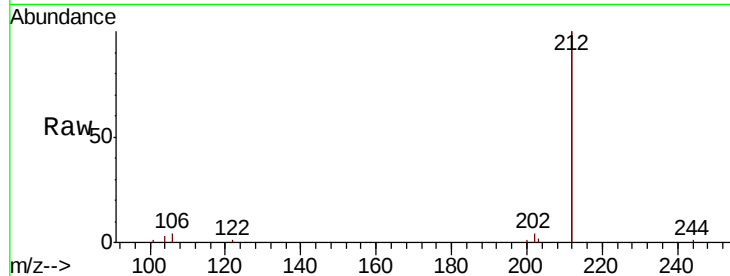
ClientSampleId :

EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
212	100		
106	1.7	1.3	1.9
104	1.0	0.7	1.1

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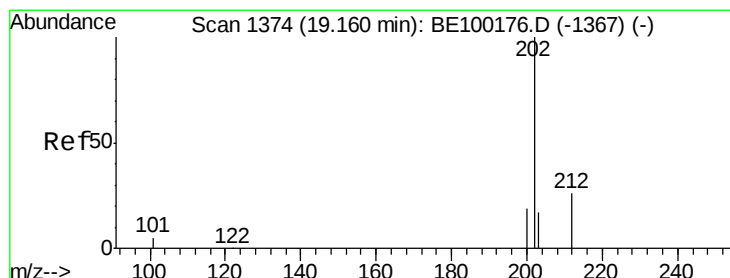
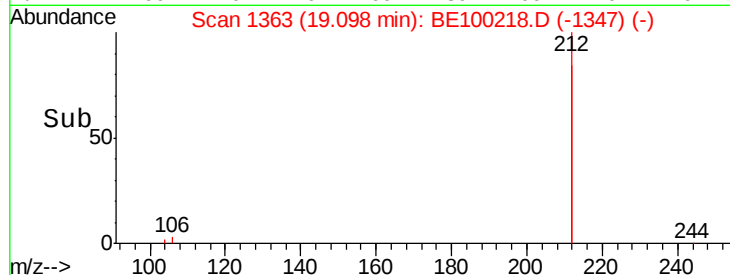
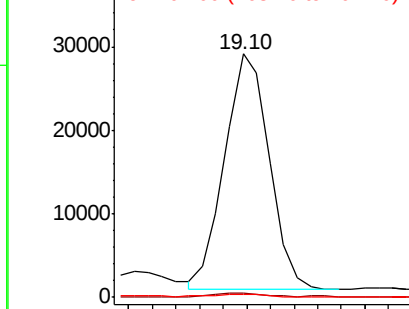


Abundance

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: 6.634 ng

RT: 19.13 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

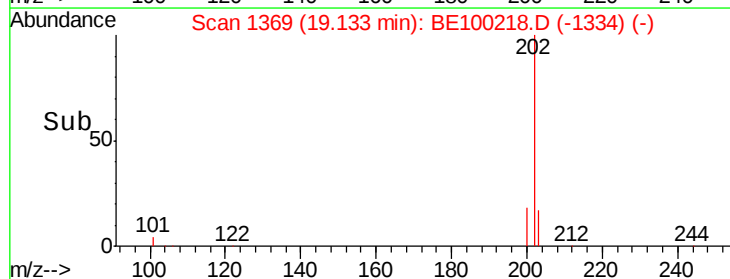
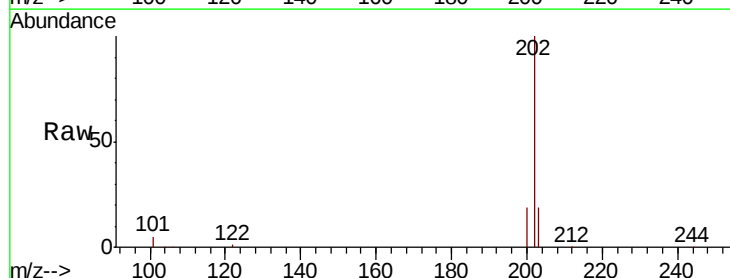
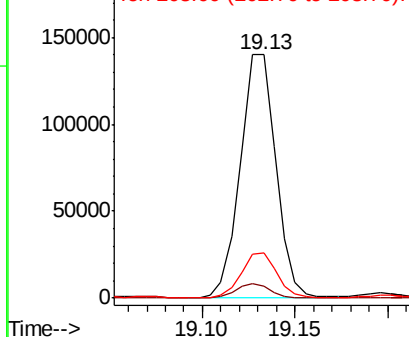
Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.6	4.5	6.7
203	18.2	13.7	20.5

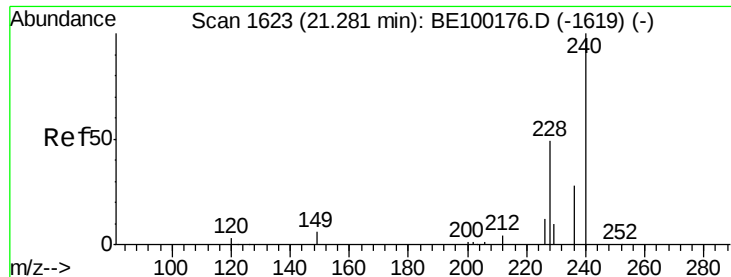
Abundance

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: 21.25 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Instrument :

BNA_E

ClientSampleId :

EXT-013-SW160-061319

Tot Ion:240 Resp: 9427

Ion Ratio Lower Upper

240 100

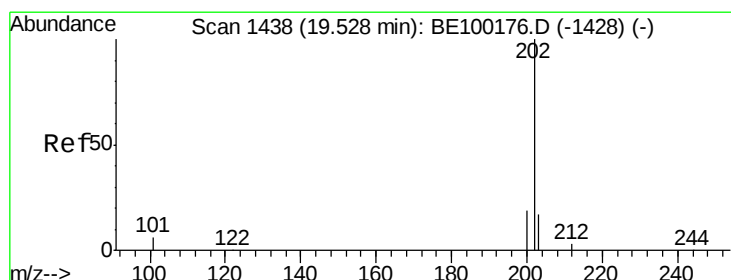
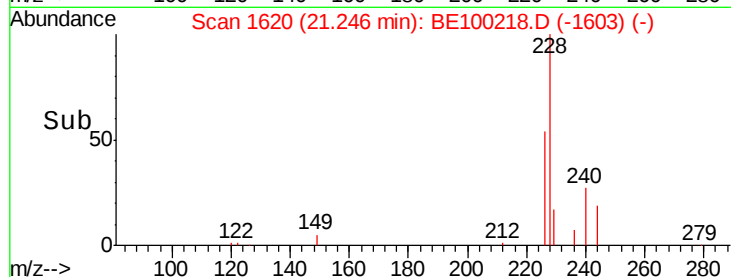
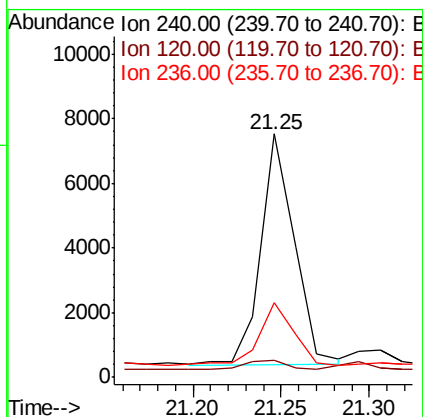
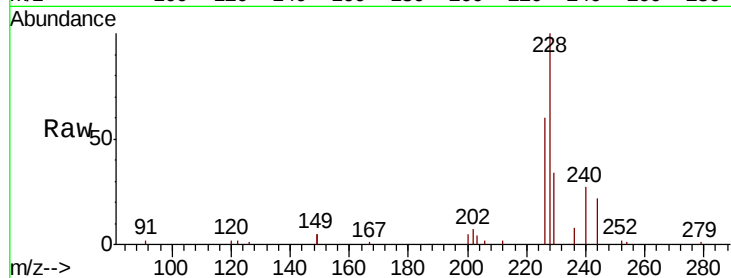
120 7.0 4.1 6.1#

236 30.8 23.0 34.6

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#28

Pyrene

Concen: 12.047 ng

RT: 19.49 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

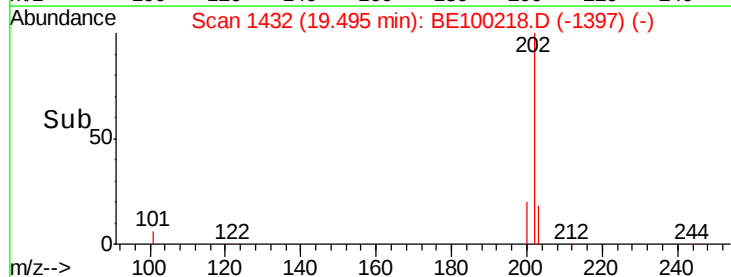
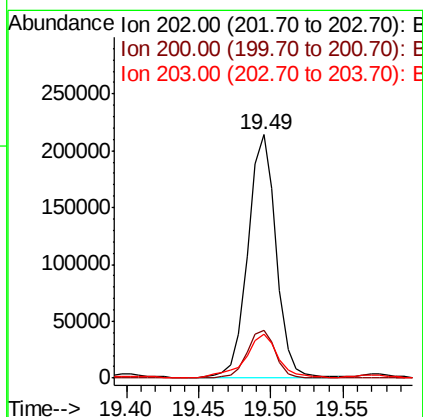
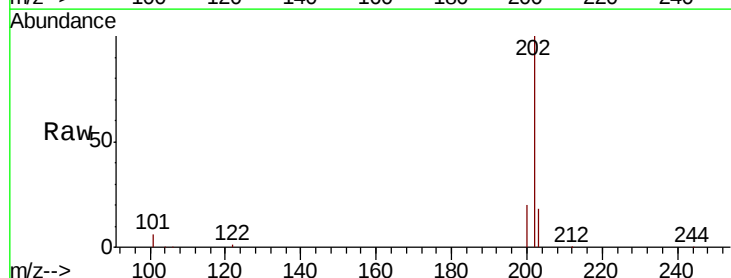
Tgt Ion:202 Resp: 290844

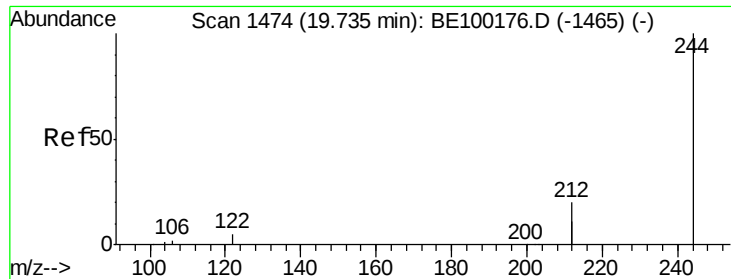
Ion Ratio Lower Upper

202 100

200 19.8 15.5 23.3

203 20.7 13.9 20.9





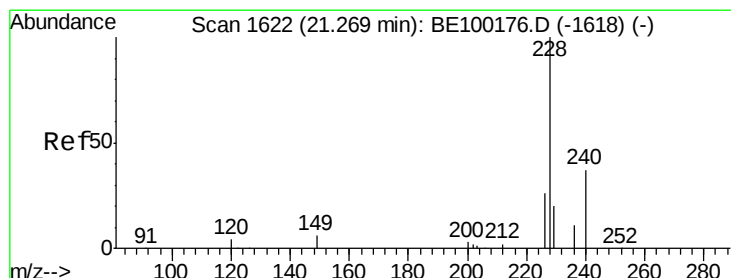
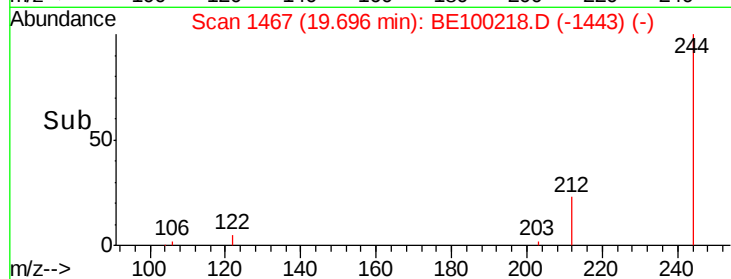
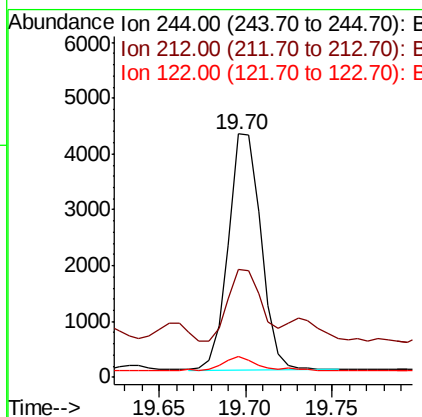
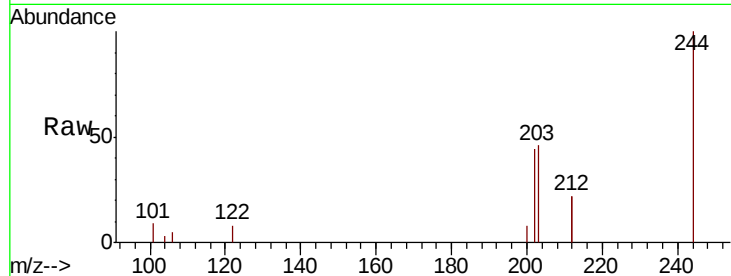
#29
 Terphenyl-d14
 Concen: 0.301 ng
 RT: 19.70 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: BE100218.D
 Acq: 27 Jun 2019 23:18

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
244	100		
212	44.3	30.7	46.1
122	8.3	5.8	8.6

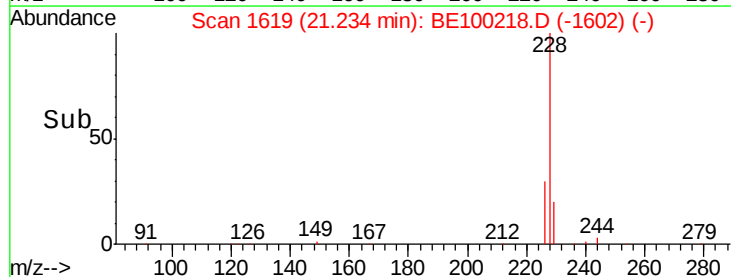
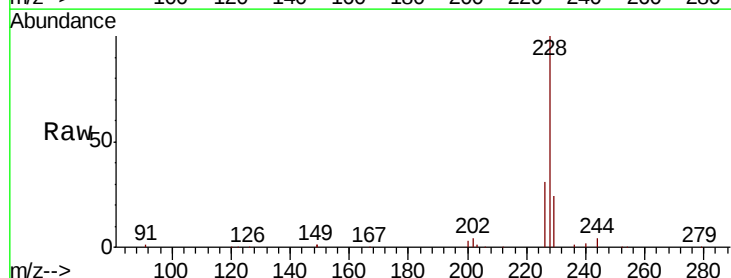
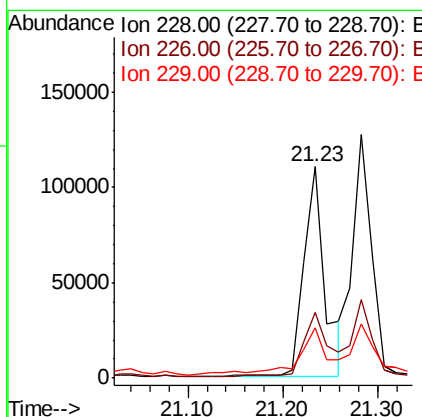
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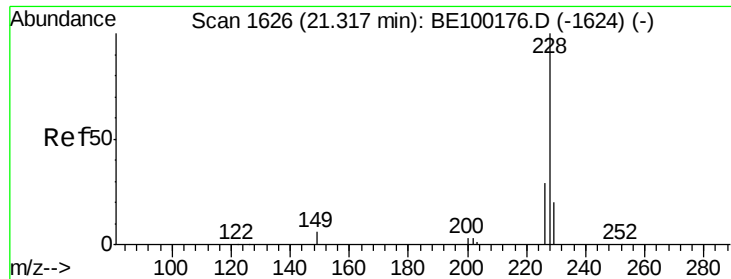
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#30
 Benzo(a)anthracene
 Concen: 6.116 ng
 RT: 21.23 min Scan# 1619
 Delta R.T. 0.00 min
 Lab File: BE100218.D
 Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	21.5	32.3
229	23.7	17.2	25.8





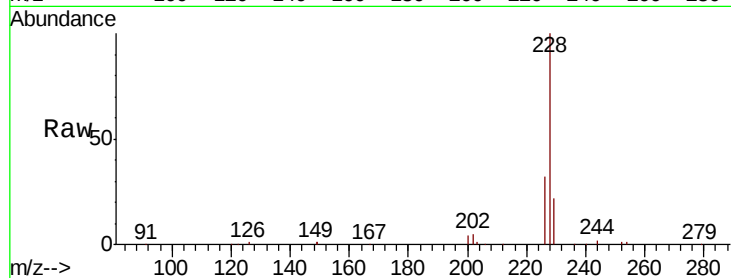
#31
 Chrysene
 Concen: 5.409 ng
 RT: 21.28 min Scan# 1623
 Delta R.T. 0.00 min
 Lab File: BE100218.D
 Acq: 27 Jun 2019 23:18

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.4	23.7	35.5
229	22.2	16.5	24.7

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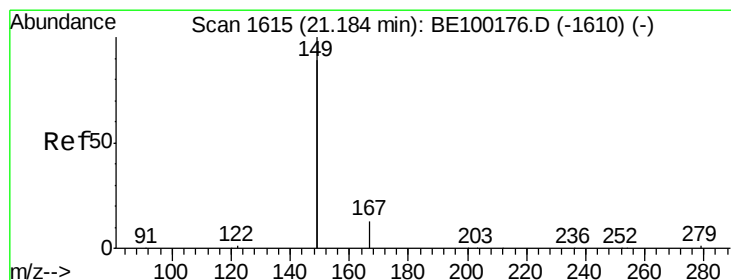
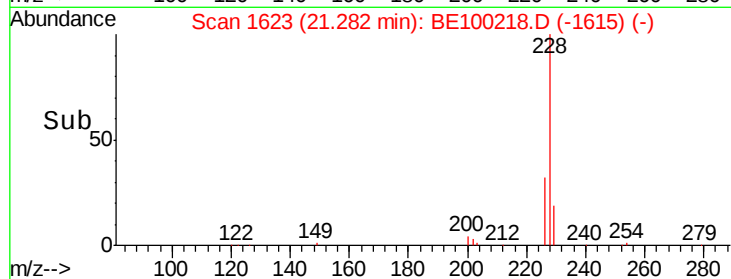
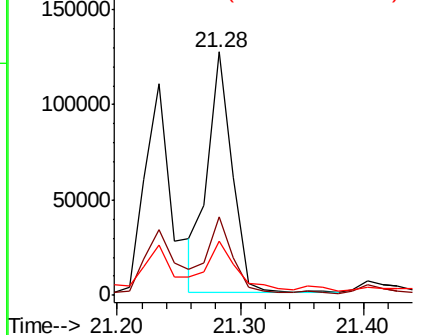


Abundance

Ion 228.00 (227.70 to 228.70): E

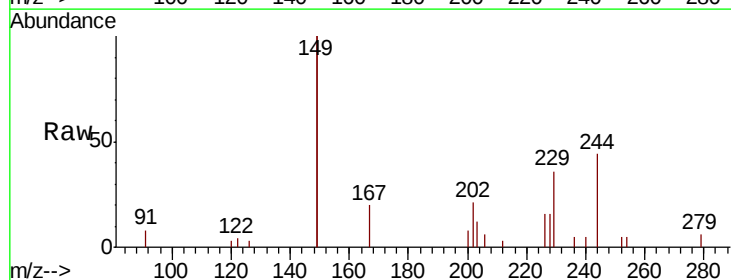
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.696 ng
 RT: 21.16 min Scan# 1613
 Delta R.T. 0.00 min
 Lab File: BE100218.D
 Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
149	100		
167	8.3	5.9	8.9
279	1.8	1.0	1.6#

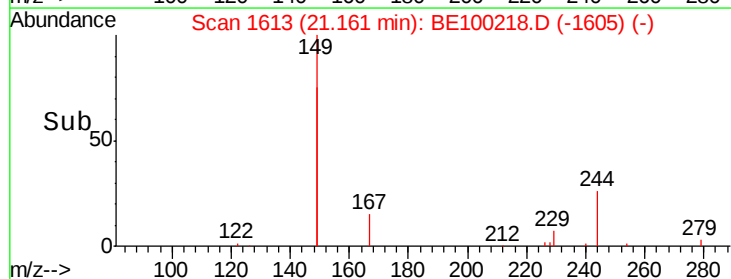
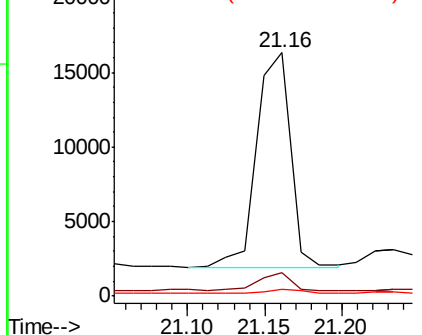


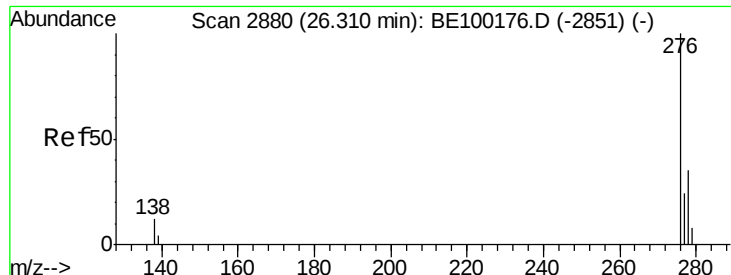
Abundance

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





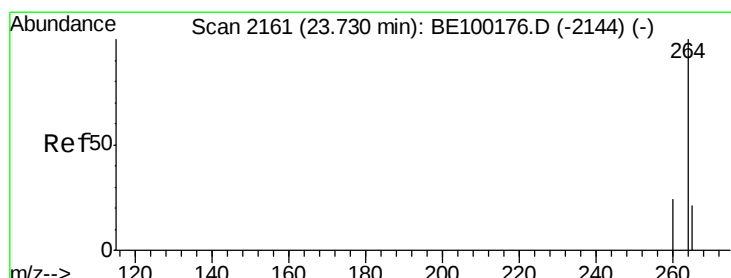
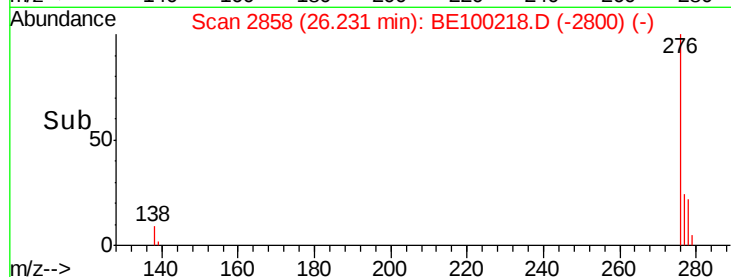
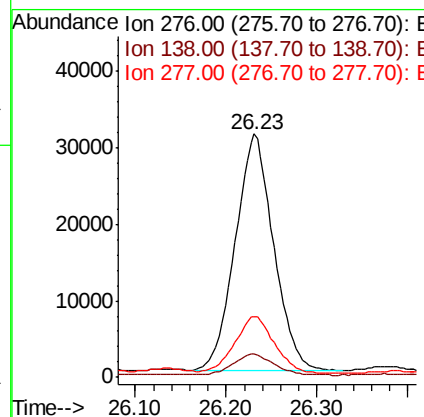
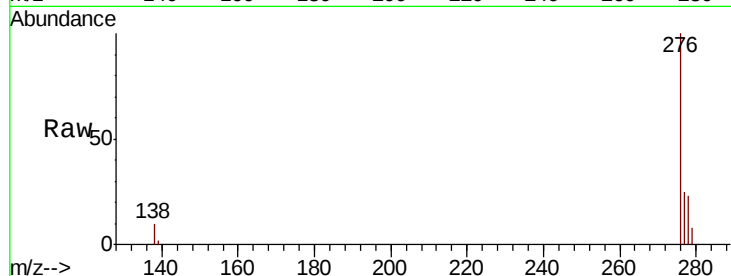
#33
Indeno(1,2,3-cd)pyrene
Concen: 1.949 ng
RT: 26.23 min Scan# 2858
Delta R.T. 0.01 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
276	100		
138	9.5	3.7	5.5#
277	24.9	18.7	28.1

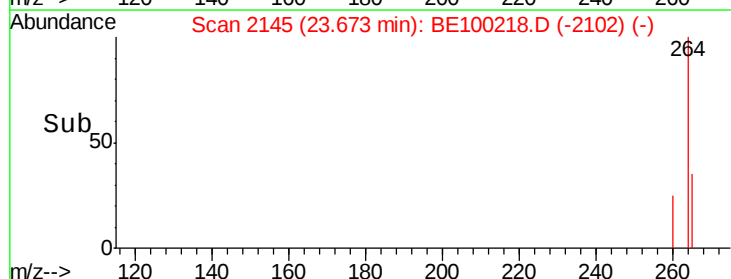
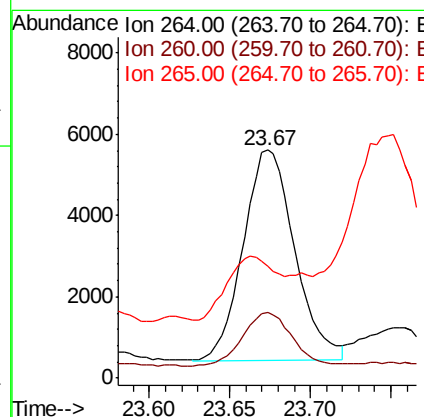
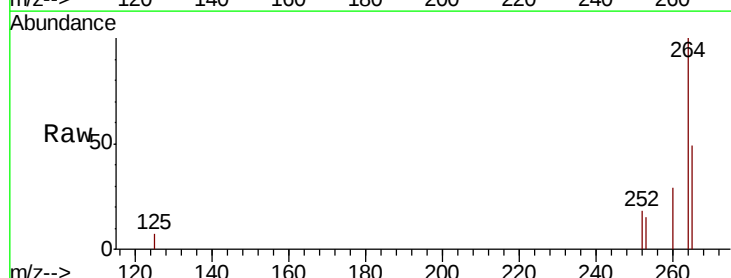
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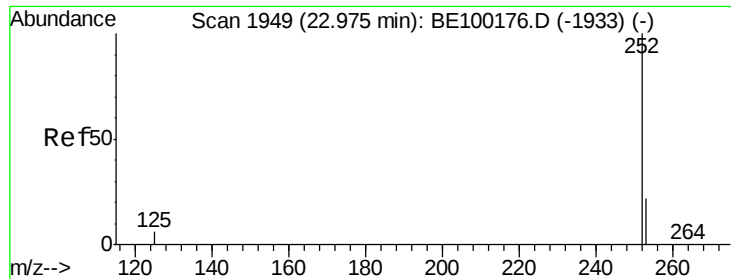
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#34
Perylene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2145
Delta R.T. 0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	29.0	20.4	30.6
265	49.1	22.5	33.7#





#35

Benzo(b)fluoranthene

Concen: 5.170 ng

RT: 22.93 min Scan# 1937

Delta R.T. 0.01 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

Instrument :

BNA_E

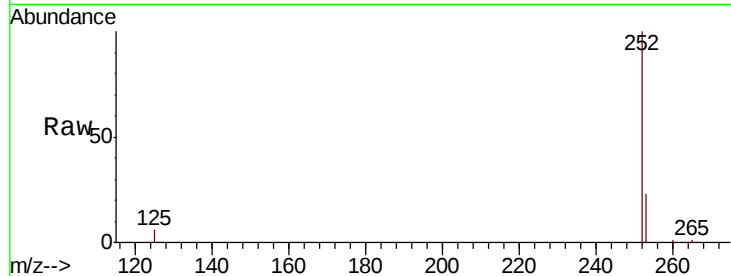
ClientSampleId :

EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	19.0	28.4
125	5.7	6.3	9.5

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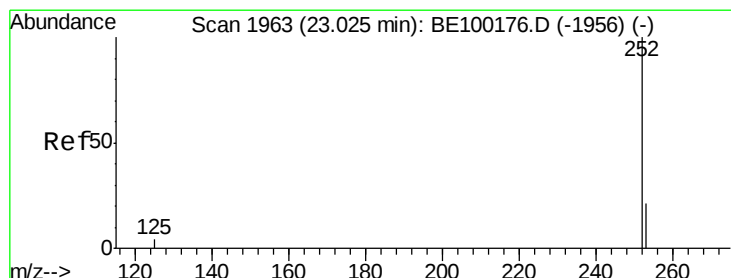
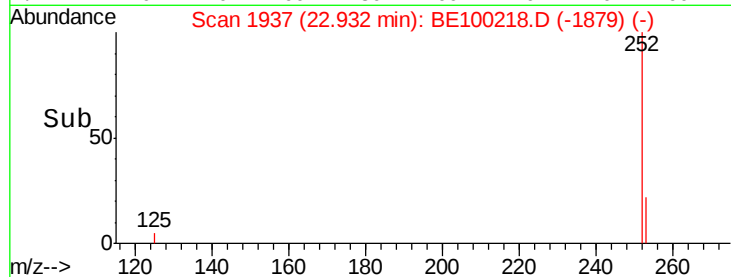
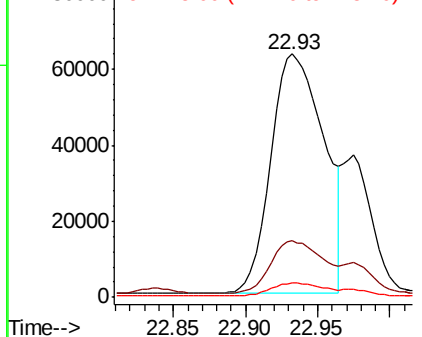


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 1.318 ng m

RT: 22.97 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BE100218.D

Acq: 27 Jun 2019 23:18

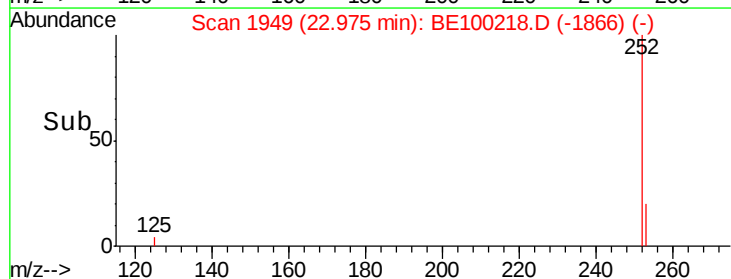
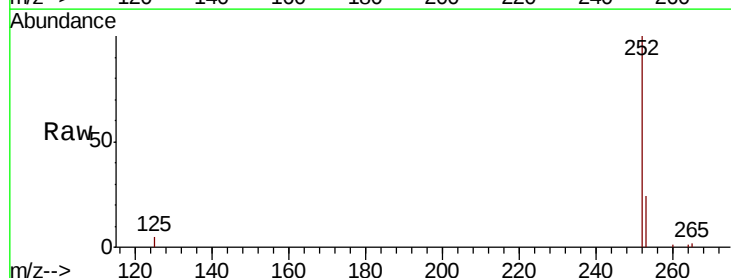
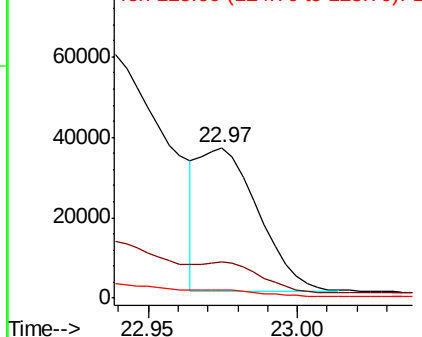
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.4	27.6
125	5.4	5.0	7.4

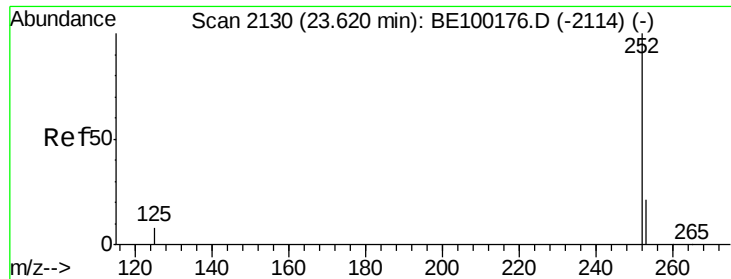
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





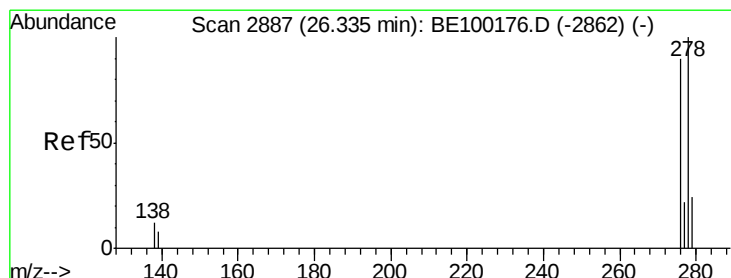
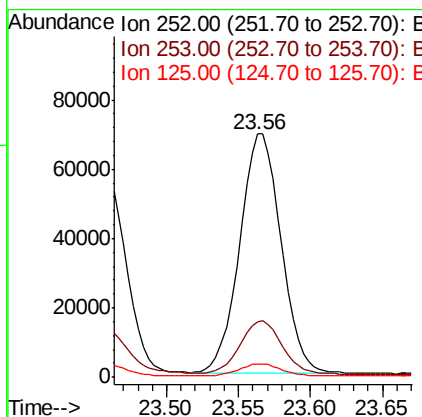
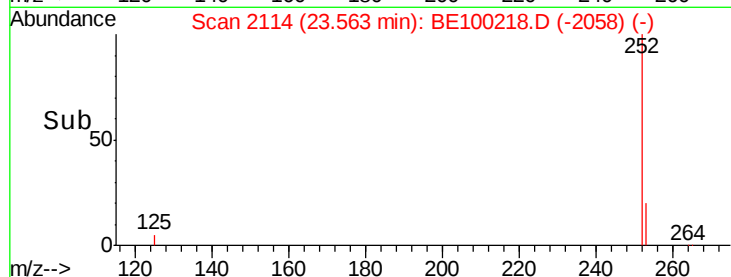
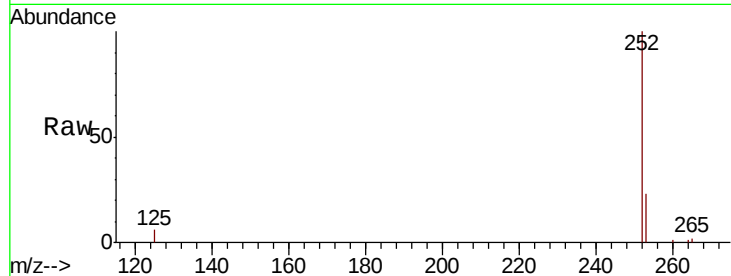
#37
Benzo(a)pyrene
Concen: 4.210 ng/mL
RT: 23.56 min Scan# 2114
Delta R.T. 0.00 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW160-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	19.2	28.8
125	5.6	8.2	12.2

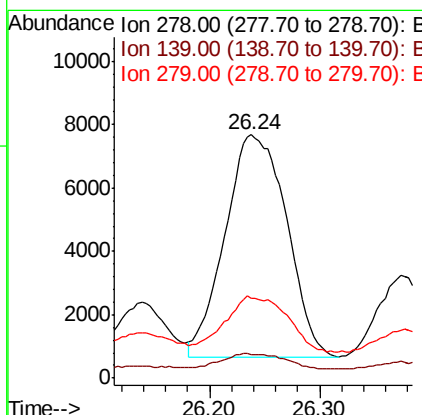
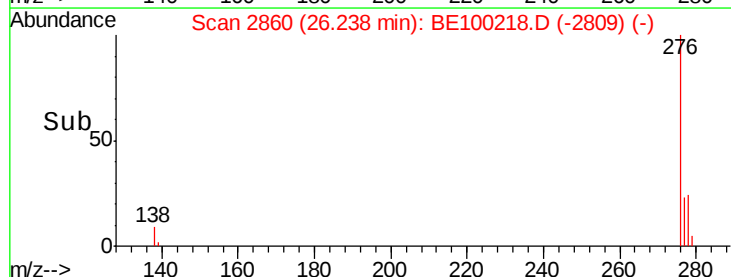
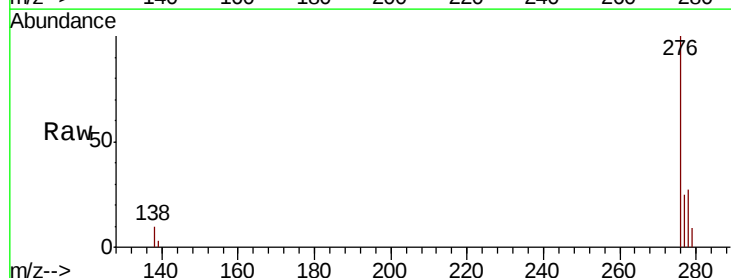
Manual Integrations
APPROVED

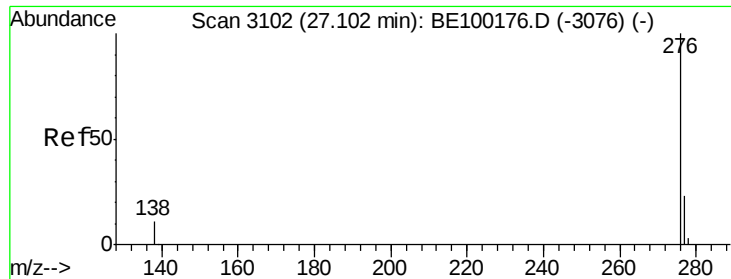
mohammad
7/1/2019 8:12:23 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.785 ng/mL
RT: 26.24 min Scan# 2860
Delta R.T. -0.02 min
Lab File: BE100218.D
Acq: 27 Jun 2019 23:18

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.9	9.0	13.4
279	32.5	21.1	31.7





#39

Benzo(a,h,i)perylene

Concen: 2.922 ng

RT: 27.02 min Scan# 3080

Delta R.T. 0.01 min

Lab File: BE100218.D

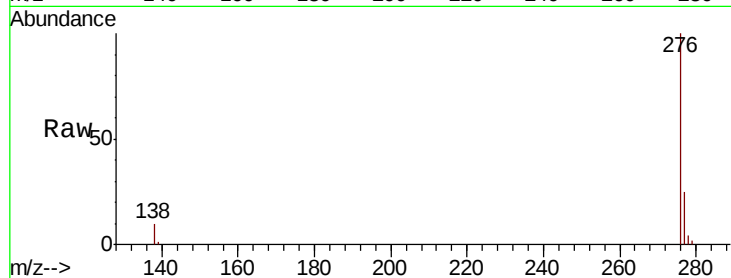
Acq: 27 Jun 2019 23:18

Instrument :

BNA_E

ClientSampleId :

EXT-013-SW160-061319



Tot Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.8	29.6
138	9.8	10.2	15.4

Manual Integrations
APPROVED

mohammad
7/1/2019 8:12:23 AM

