

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092519\
 Data File : BE100556.D
 Acq On : 25 Sep 2019 14:50
 Operator : JU
 Sample : K4995-13
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW153-091819-1

Manual Integrations
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 9/26/2019 3:56:03 PM

Quant Time: Sep 26 07:02:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE092019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 20 18:26:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	8280	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	35926	0.40	ng	-0.01
13) Acenaphthene-d10	14.49	164	19912	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	45726	0.40	ng	0.00
27) Chrysene-d12	21.37	240	59681	0.40	ng	0.00
34) Perylene-d12	23.83	264	66371	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	6383	0.33	ng	0.00
5) Phenol-d6	7.01	99	8608	0.32	ng	-0.01
8) Nitrobenzene-d5	9.00	82	6127	0.30	ng	0.00
11) 2-Methylnaphthalene-d10	12.24	152	14155	0.26	ng	0.00
14) 2,4,6-Tribromophenol	15.96	330	1506	0.47	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	17413	0.24	ng	0.00
25) Fluoranthene-d10	19.22	212	153713	0.28	ng	0.00
29) Terphenyl-d14	19.82	244	36231	0.26	ng	0.00

Target Compounds				Qvalue		
9) Naphthalene	10.69	128	35809	0.096	ng	99
12) 2-Methylnaphthalene	12.31	142	4117	0.069	ng	99
16) Acenaphthylene	14.20	152	24557	0.300	ng	100
17) Acenaphthene	14.54	154	4053	0.073	ng	97
18) Fluorene	15.51	166	7773	0.112	ng	# 87
23) Phenanthrene	17.24	178	224413	1.761	ng	100
24) Anthracene	17.33	178	34436	0.321	ng	97
26) Fluoranthene	19.25	202	577686	3.760	ng	99
28) Pyrene	19.62	202	774738	4.512	ng	# 95
30) Benzo(a)anthracene	21.34	228	463649	2.909	ng	97
31) Chrysene	21.40	228	470848	2.592	ng	98
32) Bis(2-ethylhexyl)phthalate	21.28	149	652960	3.801	ng	100
33) Indeno(1,2,3-cd)pyrene	26.45	276	248368	1.230	ng	97
35) Benzo(b)fluoranthene	23.08	252	535850	2.984	ng	99
36) Benzo(k)fluoranthene	23.12	252	164505m	0.792	ng	
37) Benzo(a)pyrene	23.72	252	403462	2.408	ng	99
38) Dibenzo(a,h)anthracene	26.46	278	75124	0.430	ng	92
39) Benzo(a,h,i)perylene	27.25	276	273873	1.503	ng	98

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

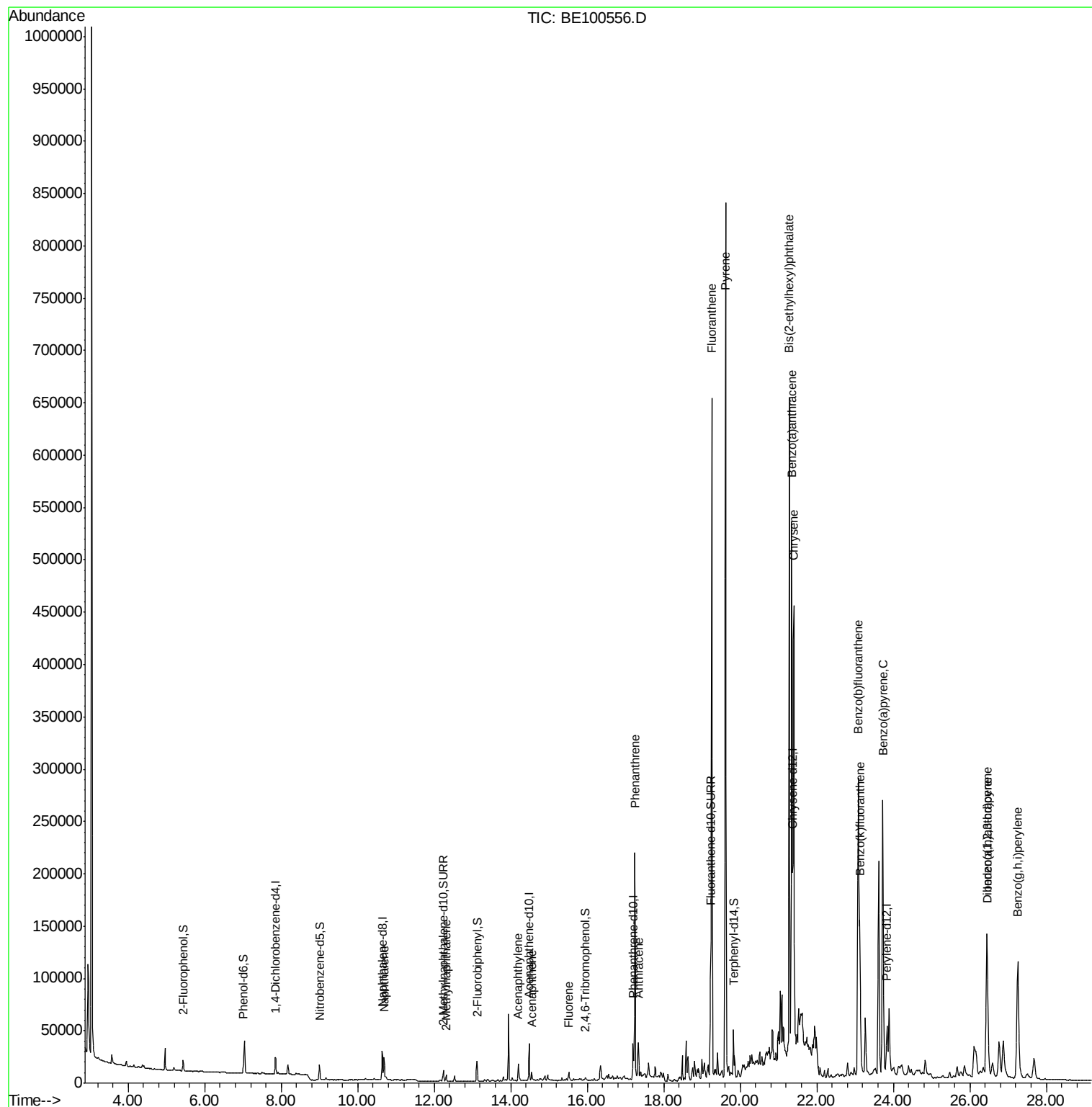
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092519\
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#1

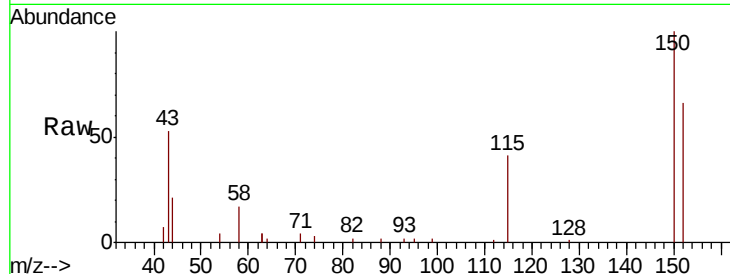
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. -0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.1	121.6	182.4
115	61.5	48.2	72.4

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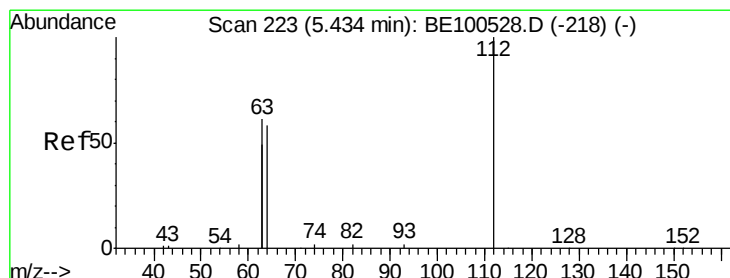
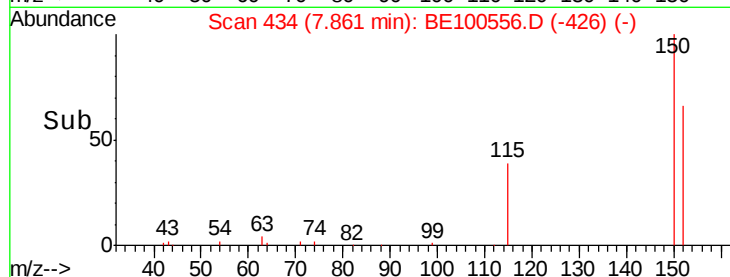
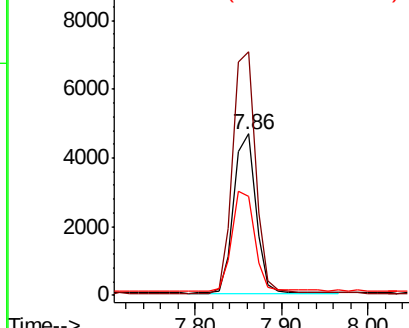


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

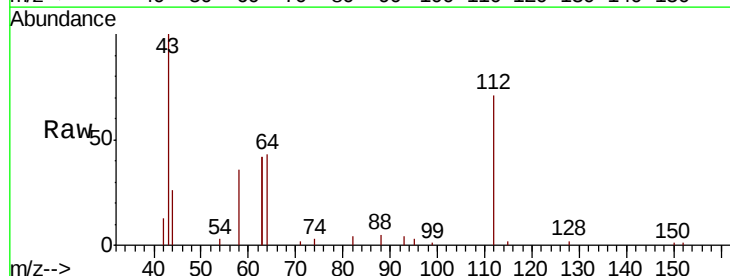
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.329 ng
RT: 5.43 min Scan# 223
Delta R.T. -0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	44.1	66.1
63	109.6	86.5	129.7

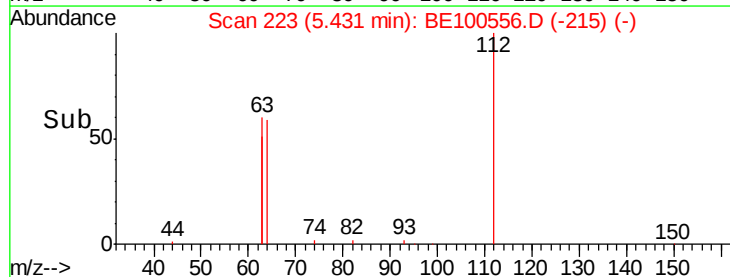
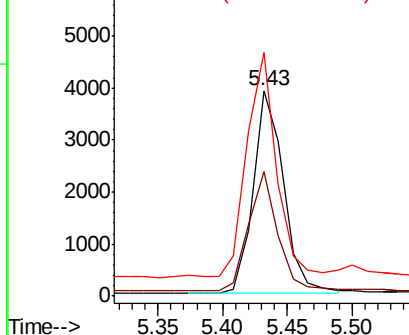


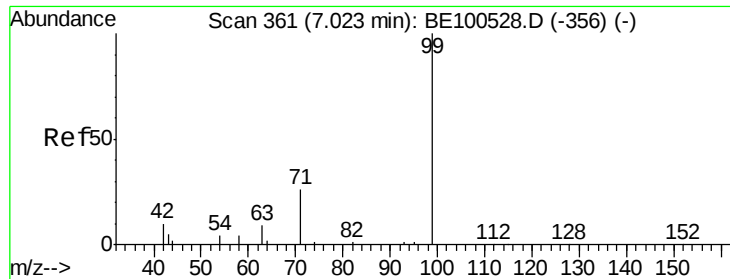
Abundance

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: 0.324 ng

RT: 7.01 min Scan# 360

Delta R.T. -0.01 min

Lab File: BE100556.D

Acq: 25 Sep 2019 14:50

Instrument :

BNA_E

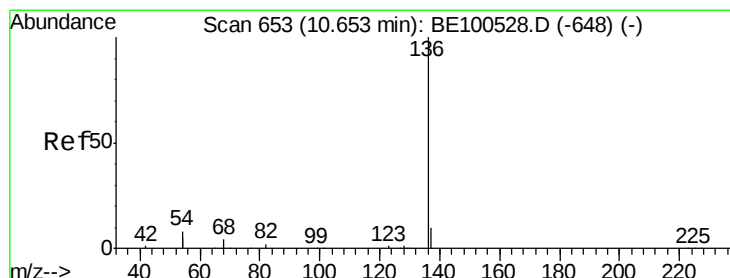
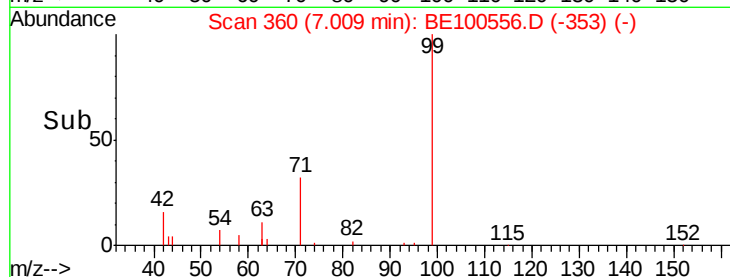
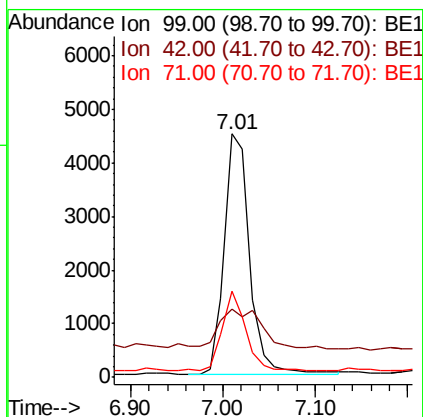
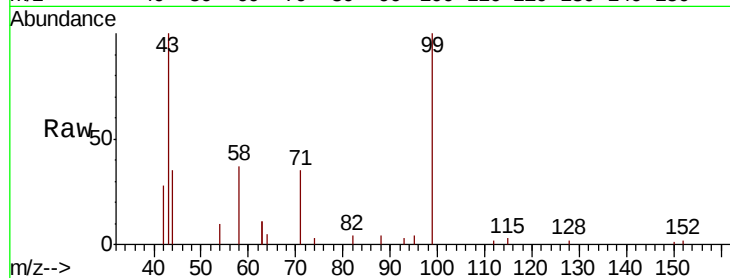
ClientSampleId :

EXT-SW153-091819-1

Tot Ion:	99	Resp:	8608
Ion Ratio	Lower	Upper	
99	100		
42	28.9	13.0	19.6#
71	29.9	23.4	35.0

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#7

Naphthalene-d8

Concen: 0.400 ng

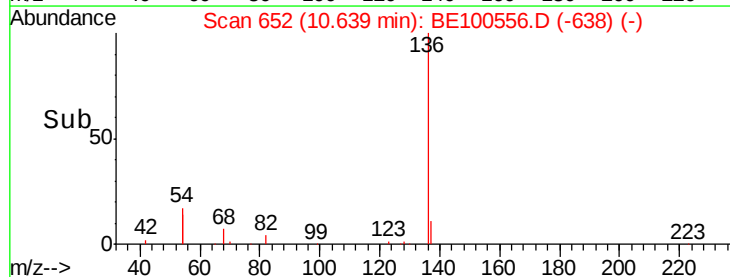
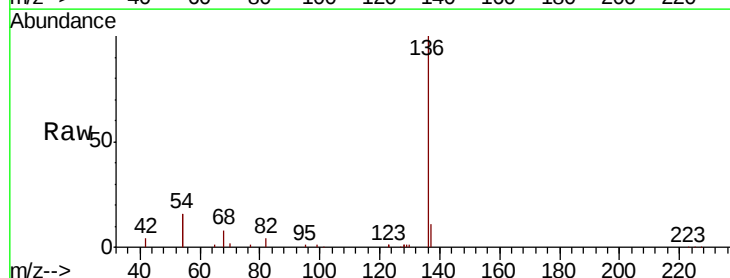
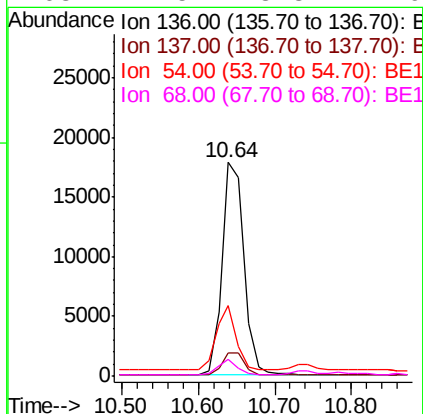
RT: 10.64 min Scan# 652

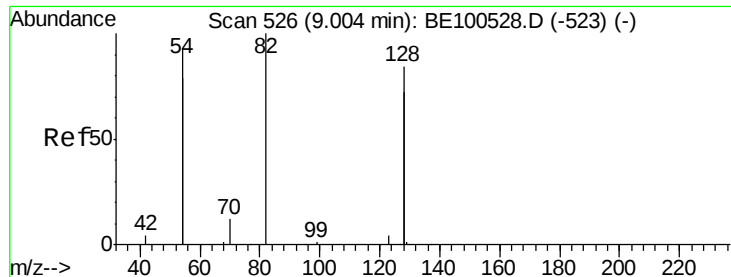
Delta R.T. -0.01 min

Lab File: BE100556.D

Acq: 25 Sep 2019 14:50

Tgt Ion:	136	Resp:	35926
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.6	13.0
54	32.9	12.4	18.6#
68	7.5	3.3	4.9#





#8

Nitrobenzene-d5

Concen: 0.296 ng

RT: 9.00 min Scan# 526

Delta R.T. -0.00 min

Lab File: BE100556.D

Acq: 25 Sep 2019 14:50

Instrument :

BNA_E

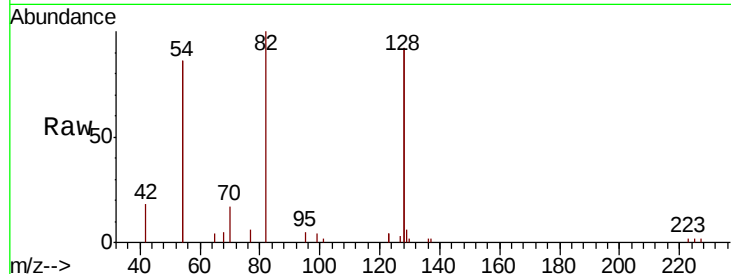
ClientSampleId :

EXT-SW153-091819-1

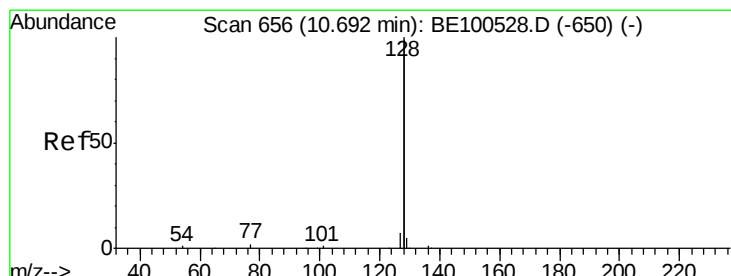
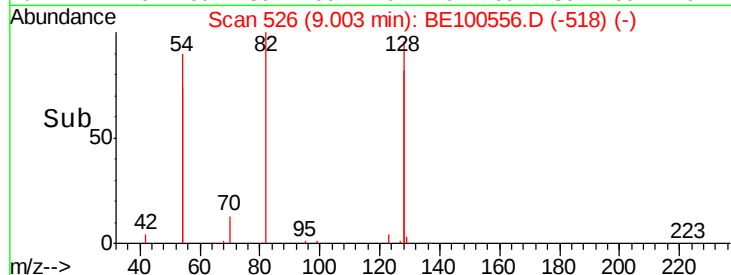
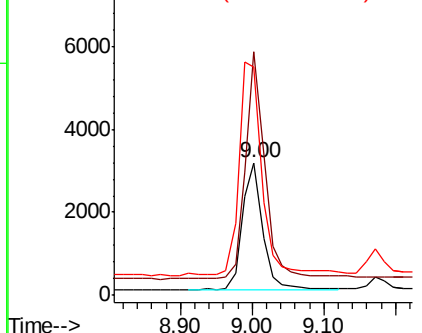
Tot Ion:	82	Resp:	6127
Ion	Ratio	Lower	Upper
82	100		
128	184.1	129.4	194.2
54	172.5	143.3	214.9

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Abundance Ion 82.00 (81.70 to 82.70): BE1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.096 ng

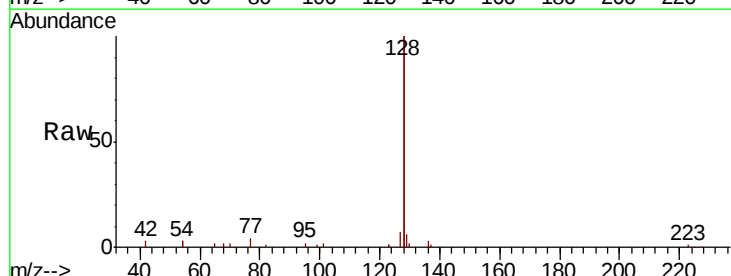
RT: 10.69 min Scan# 656

Delta R.T. -0.00 min

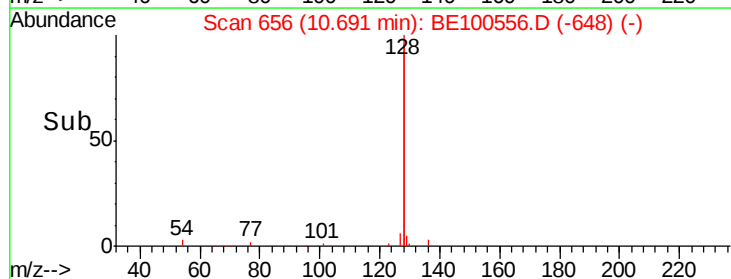
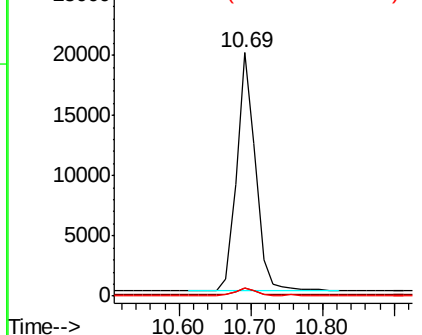
Lab File: BE100556.D

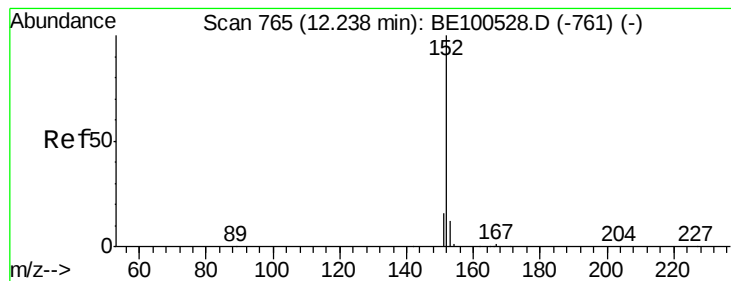
Acq: 25 Sep 2019 14:50

Tgt Ion:	128	Resp:	35809
Ion	Ratio	Lower	Upper
128	100		
129	3.2	2.2	3.4
127	3.5	2.7	4.1



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





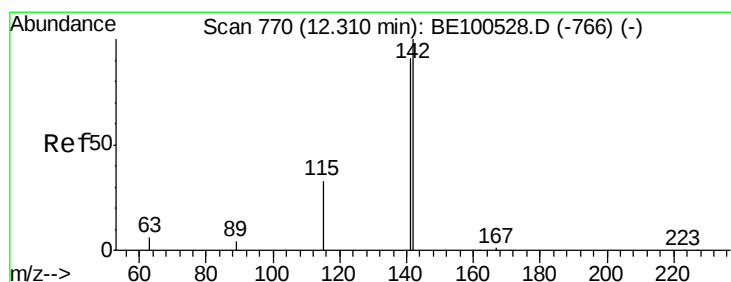
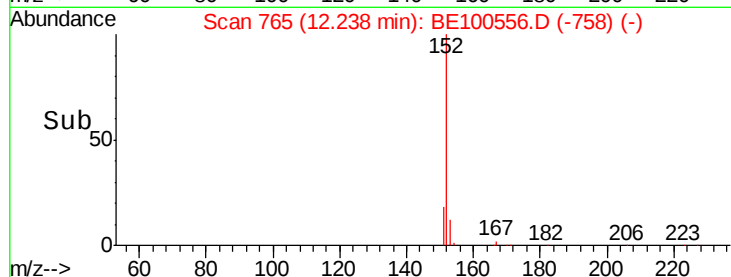
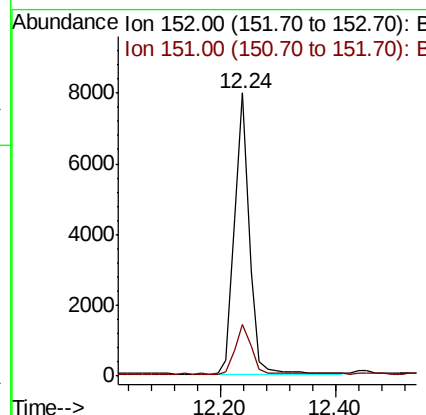
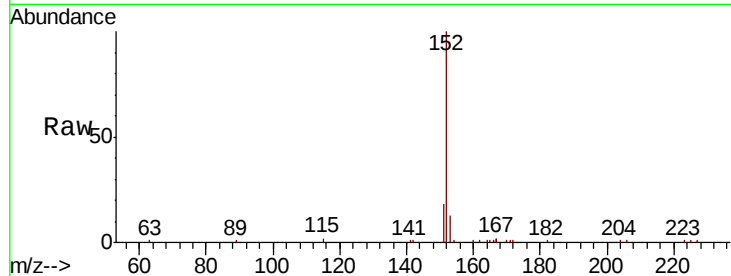
#11
 2-Methylnaphthalene-d10
 Concen: 0.263 ng
 RT: 12.24 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: BE100556.D
 Acq: 25 Sep 2019 14:50

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.3	22.9

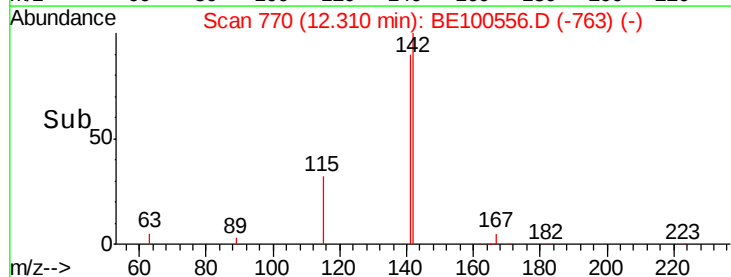
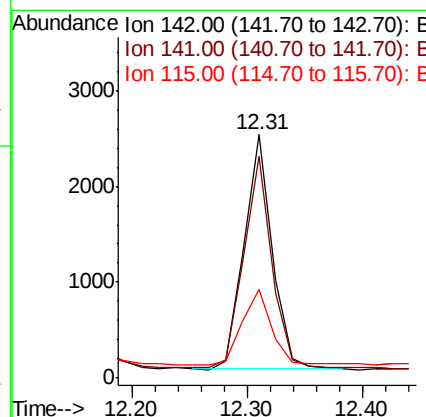
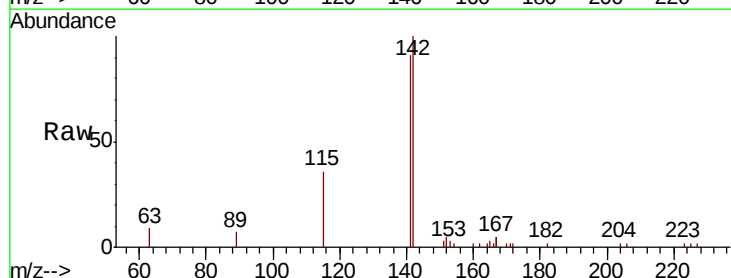
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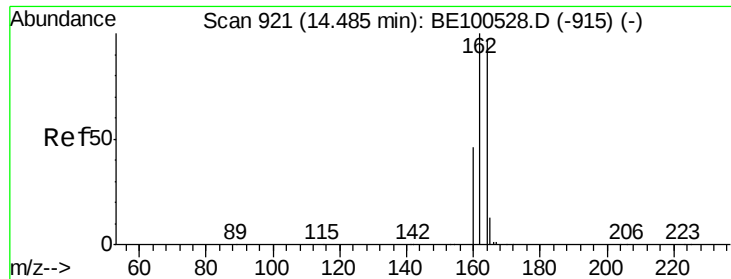
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#12
 2-Methylnaphthalene
 Concen: 0.069 ng
 RT: 12.31 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: BE100556.D
 Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.5	108.7
115	36.3	27.2	40.8





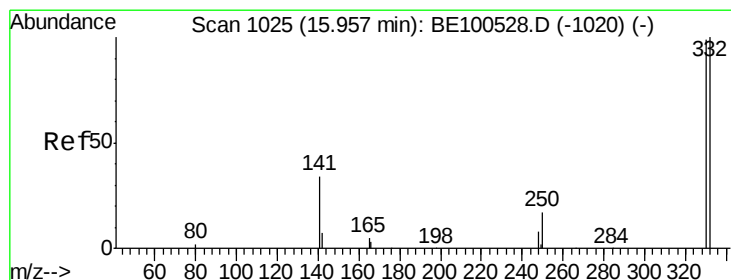
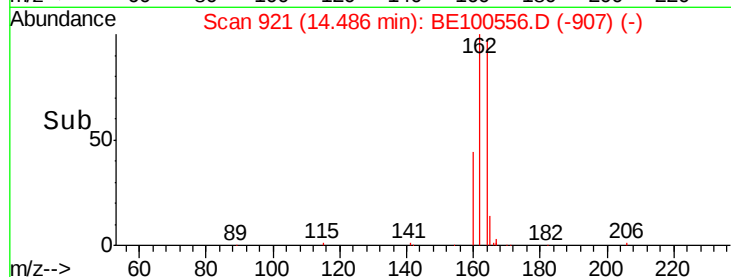
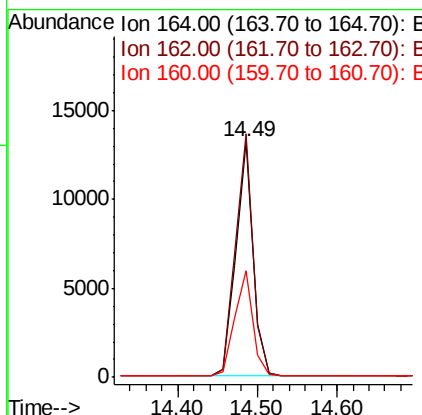
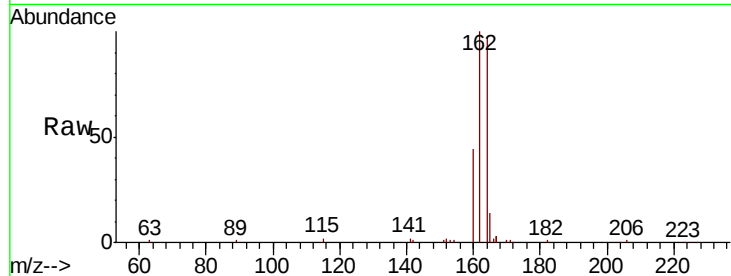
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.1	123.1
160	45.3	37.6	56.4

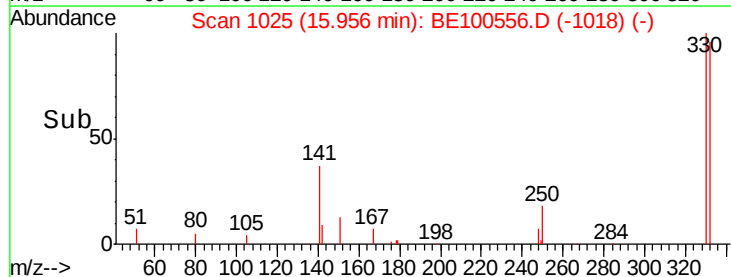
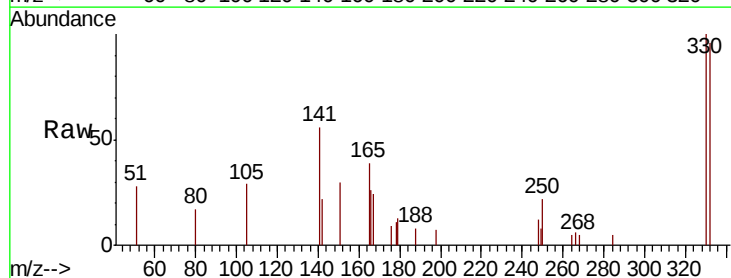
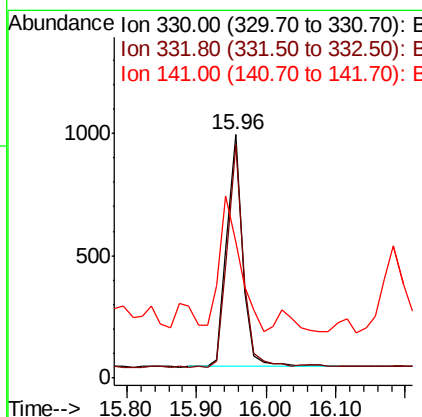
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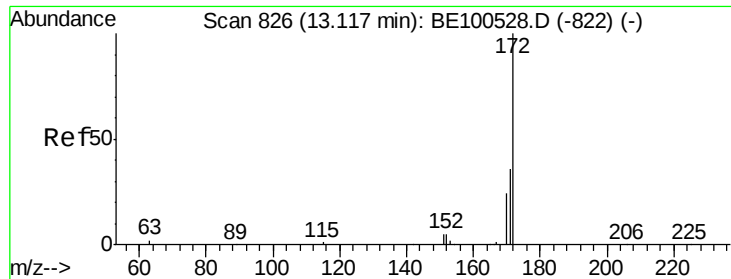
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#14
2,4,6-Tribromophenol
Concen: 0.468 ng
RT: 15.96 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.5	113.3
141	74.0	42.3	63.5#





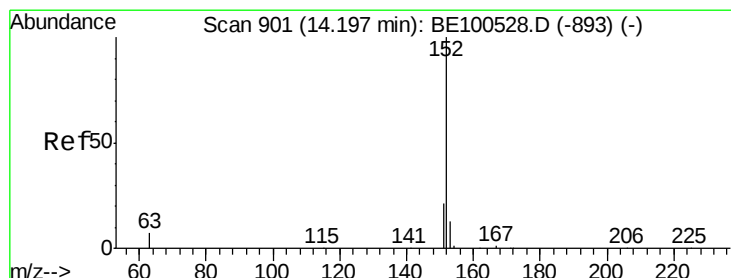
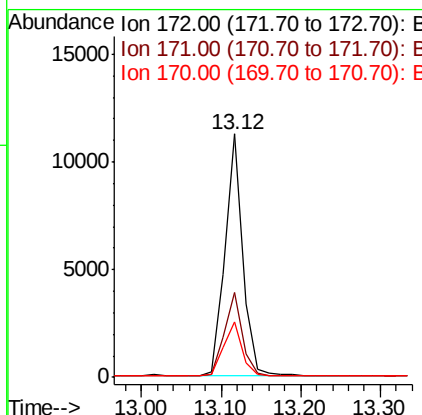
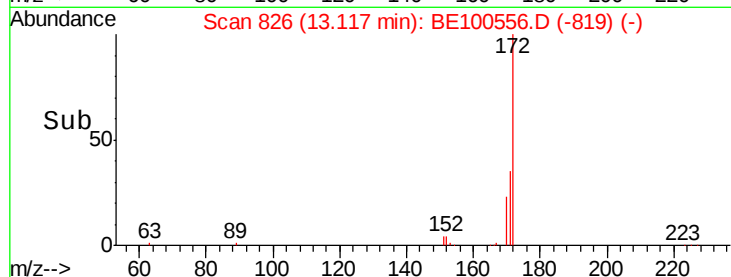
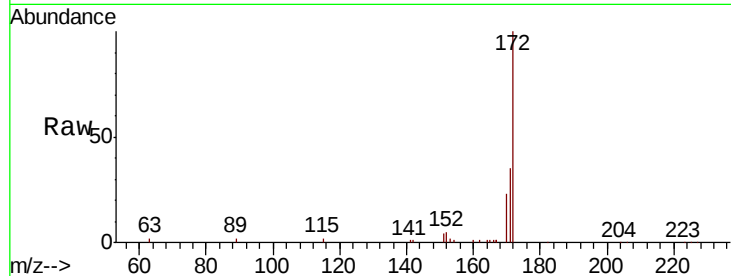
#15
2-Fluorobiphenyl
Concen: 0.245 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.8	43.2
170	22.9	19.4	29.0

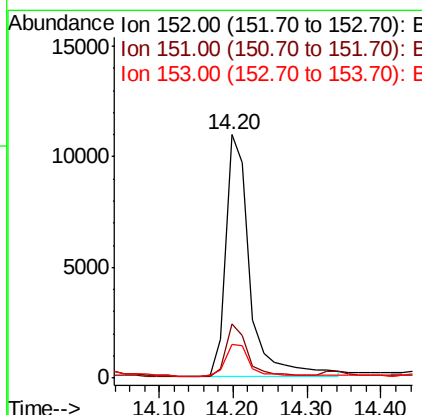
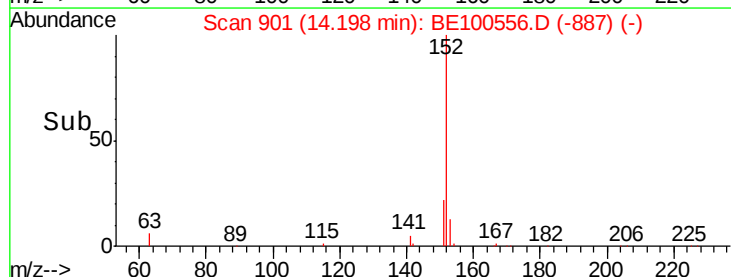
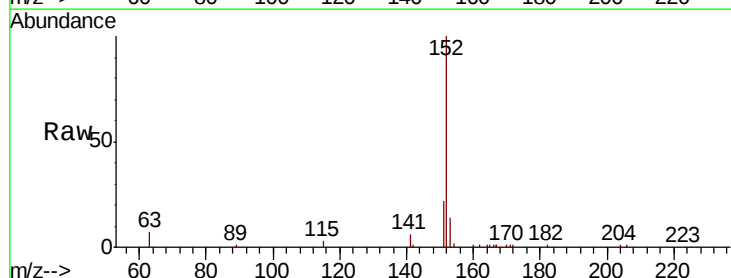
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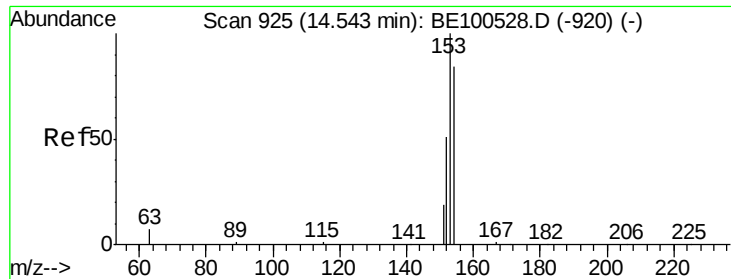
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#16
Acenaphthylene
Concen: 0.300 ng
RT: 14.20 min Scan# 901
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.9	23.9
153	13.5	10.7	16.1





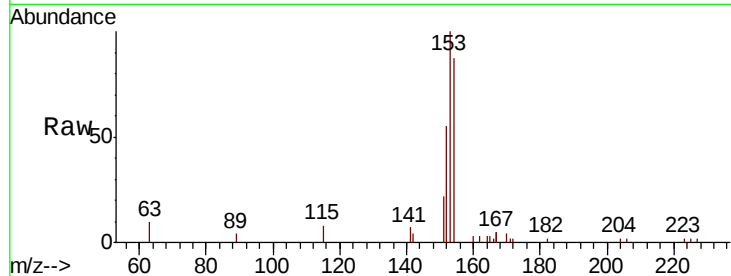
#17
Acenaphthene
Concen: 0.073 ng
RT: 14.54 min Scan# 925
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.8	93.7	140.5
152	64.9	47.3	70.9

Manual Integrations
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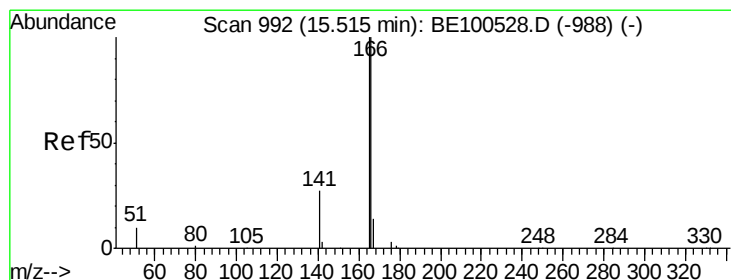
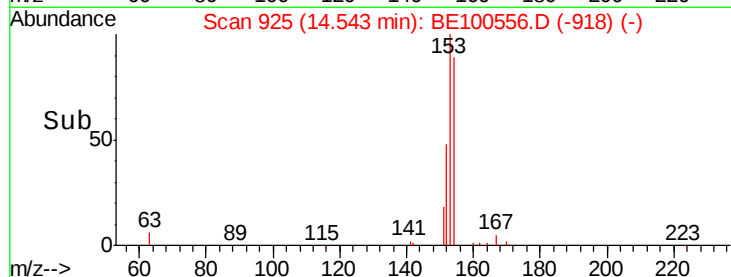
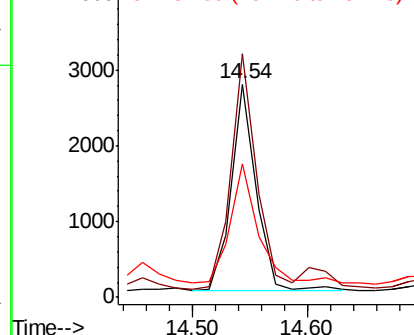


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.112 ng
RT: 15.51 min Scan# 992
Delta R.T. -0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

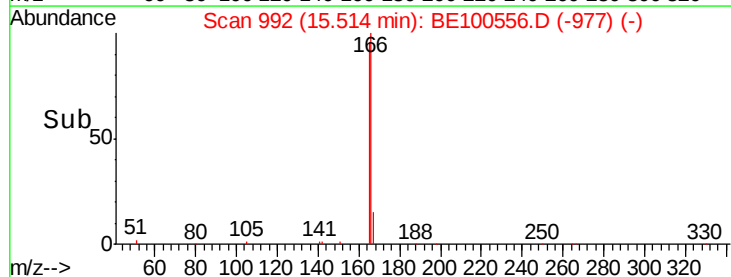
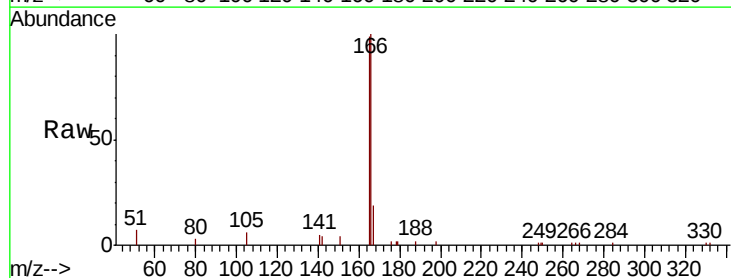
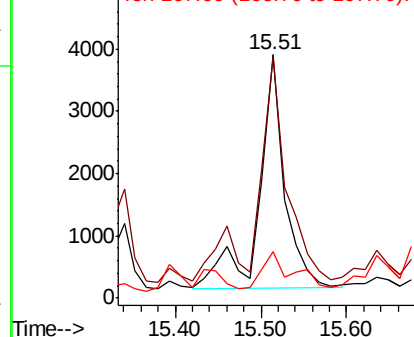
Tgt Ion	Ratio	Lower	Upper
166	100		
165	86.6	80.1	120.1
167	18.9	10.9	16.3

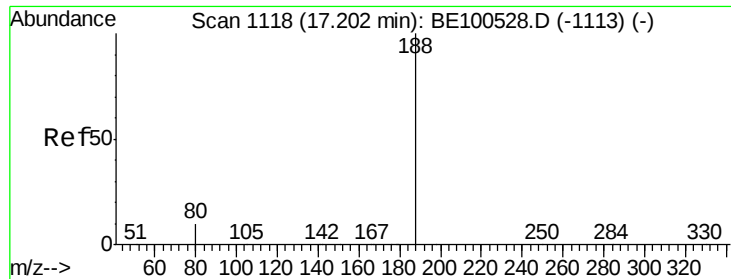
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.00 min

Lab File: BE100556.D

Acq: 25 Sep 2019 14:50

Instrument :

BNA_E

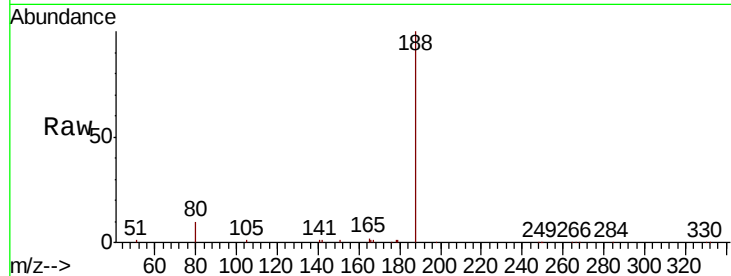
ClientSampleId :

EXT-SW153-091819-1

Tot Ion:	188	Resp:	45726
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.8	8.0	12.0

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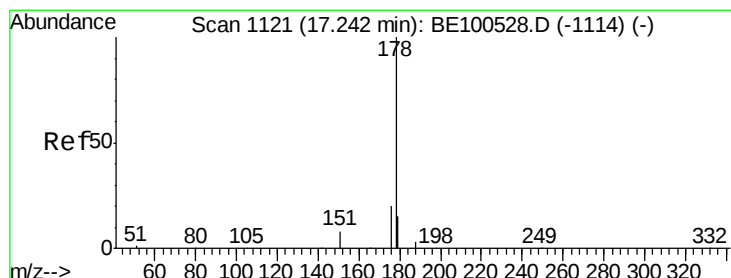
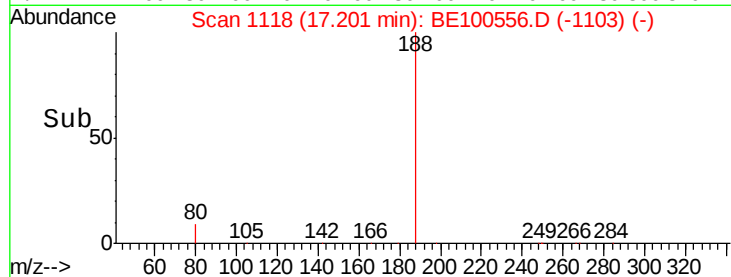
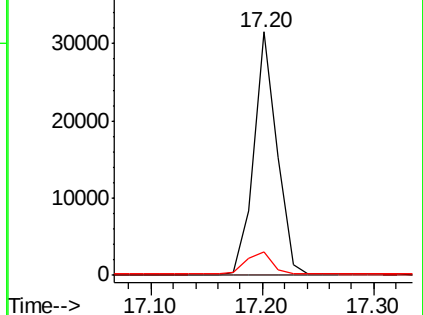
mohammad
9/26/2019 3:56:03 PM



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



#23

Phenanthrene

Concen: 1.761 ng

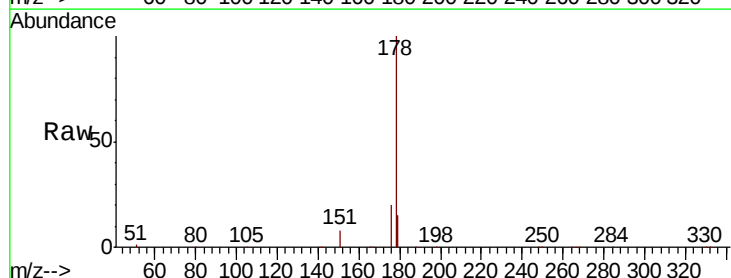
RT: 17.24 min Scan# 1121

Delta R.T. -0.00 min

Lab File: BE100556.D

Acq: 25 Sep 2019 14:50

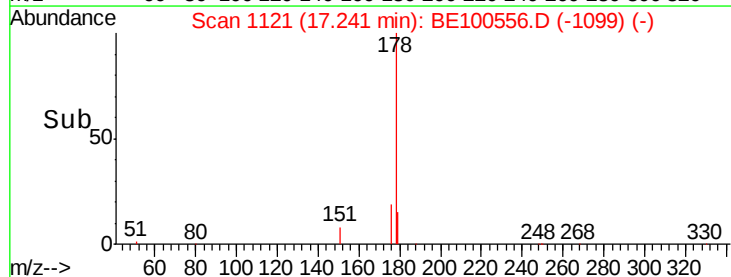
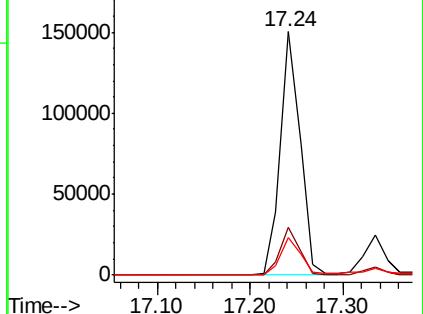
Tgt Ion:	178	Resp:	224413
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.4	23.2
179	15.6	12.6	18.8

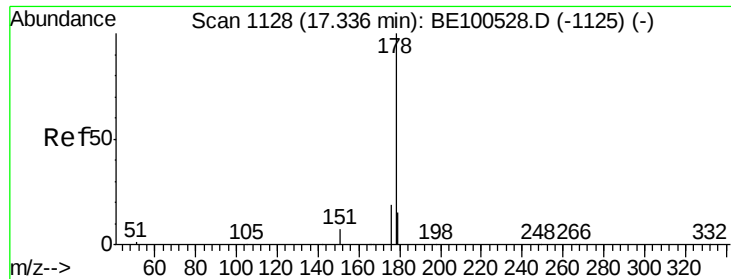


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





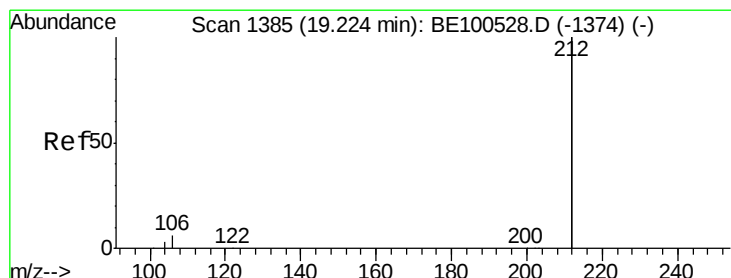
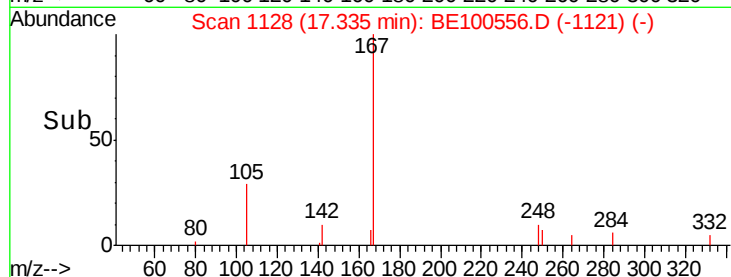
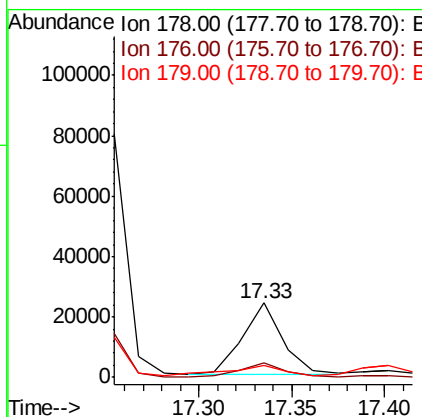
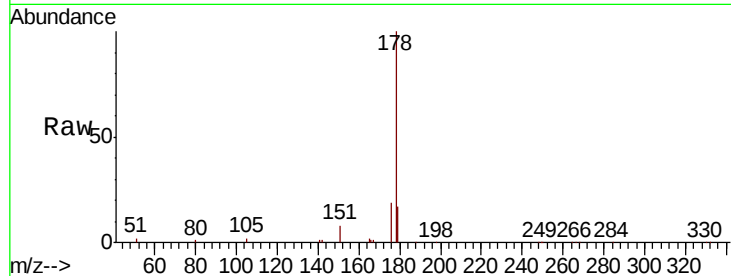
#24
 Anthracene
 Concen: 0.321 ng
 RT: 17.33 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: BE100556.D
 Acq: 25 Sep 2019 14:50

Instrument :
 BNA_E
 ClientSampleId :
 EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	17.8	12.2	18.4

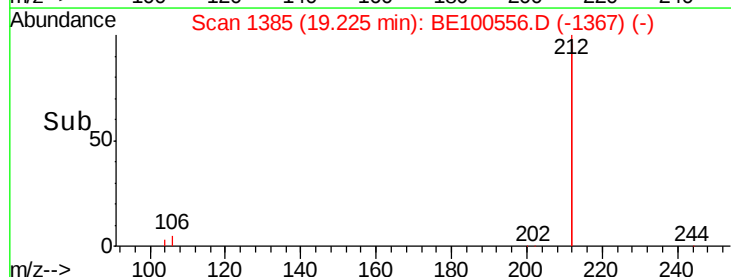
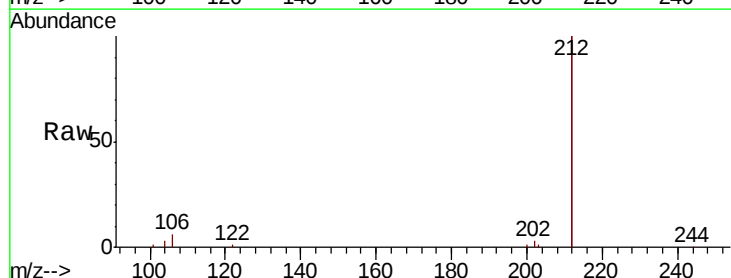
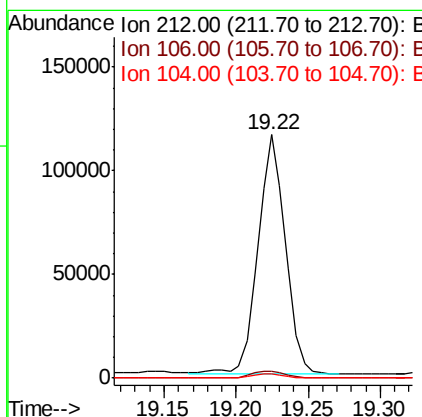
Manual Integrations
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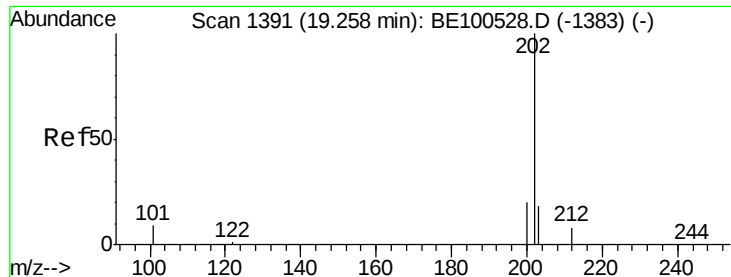
mohammad
 9/26/2019 3:56:03 PM



#25
 Fluoranthene-d10
 Concen: 0.283 ng
 RT: 19.22 min Scan# 1385
 Delta R.T. 0.00 min
 Lab File: BE100556.D
 Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
212	100		
106	3.2	2.3	3.5
104	1.9	1.3	1.9





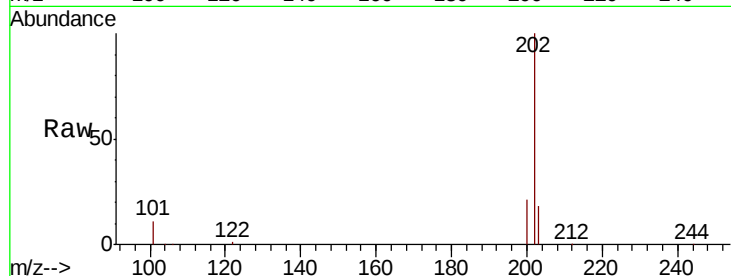
#26
Fluoranthene
Concen: 3.760 ng
RT: 19.25 min Scan# 1390
Delta R.T. -0.01 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Resp	Lower	Upper
202	100	577686		
101	11.2		8.8	13.2
203	17.8		13.7	20.5

Manual Integrations
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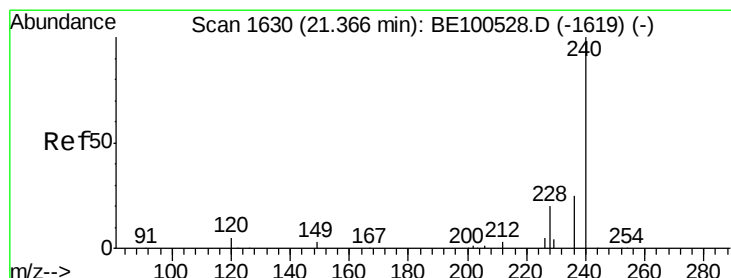
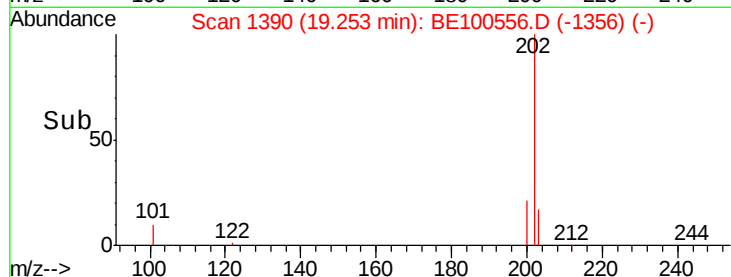
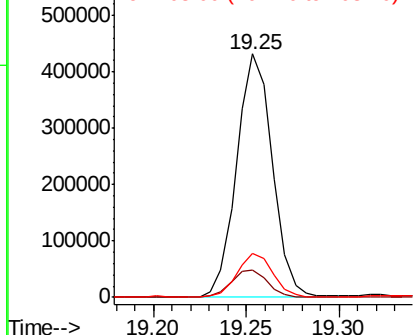


Abundance

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: 21.37 min Scan# 1630
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

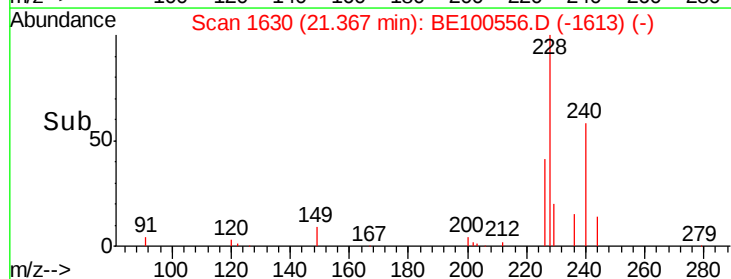
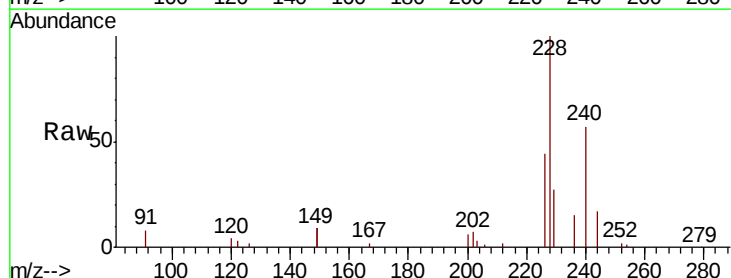
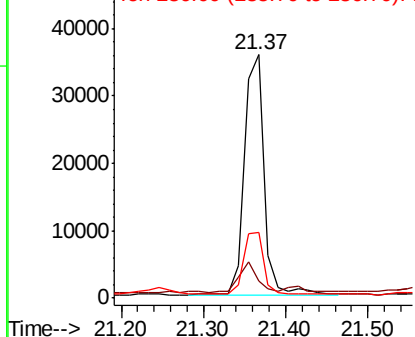
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	59681		
120	6.8		4.5	6.7#
236	26.7		20.6	30.8

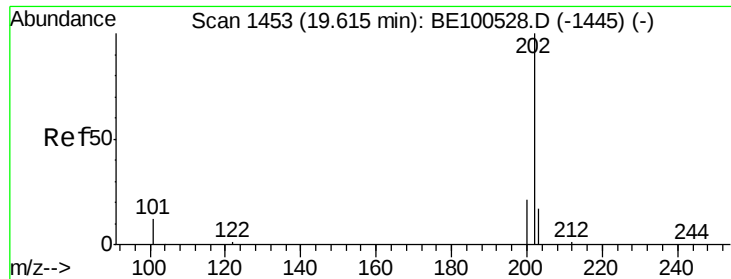
Abundance

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





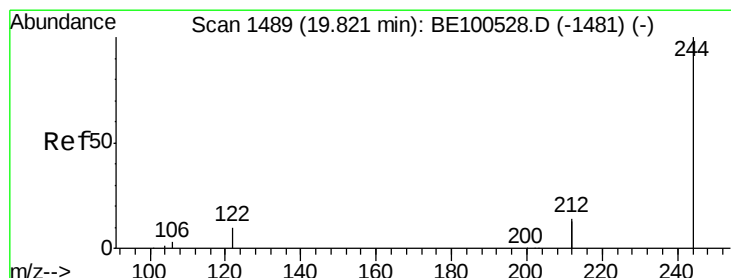
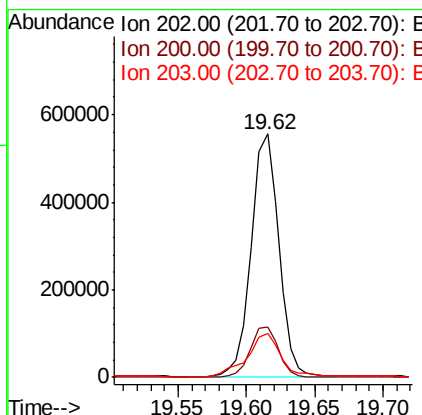
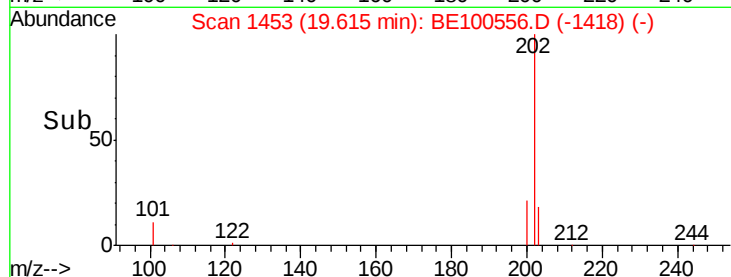
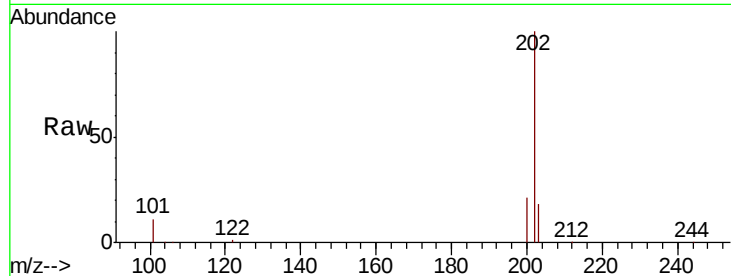
#28
Pvrene
Concen: 4.512 ng
RT: 19.62 min Scan# 1453
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.3	16.6	25.0
203	21.9	14.0	21.0

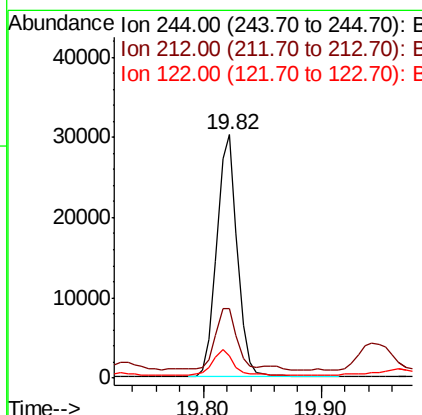
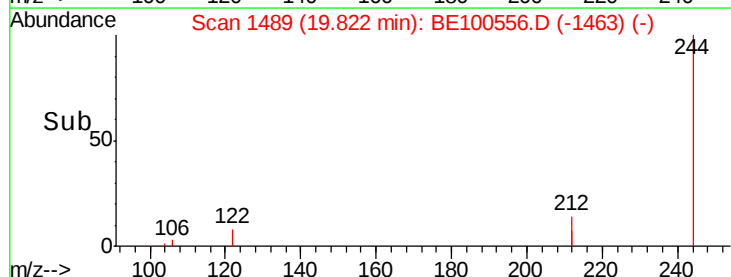
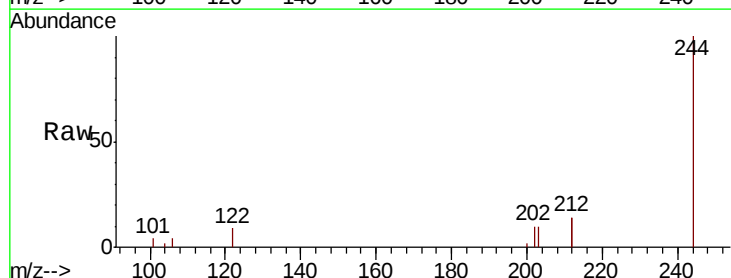
Manual Integrations
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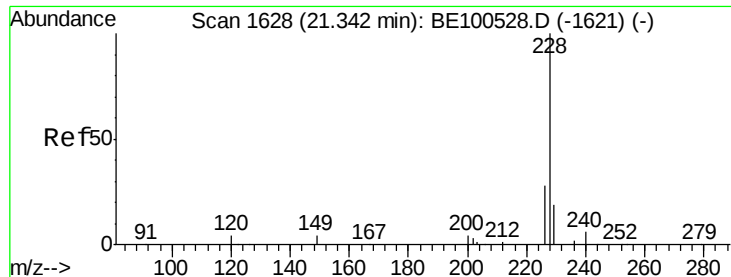
mohammad
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#29
Terphenyl-d14
Concen: 0.256 ng
RT: 19.82 min Scan# 1489
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	28.6	22.2	33.2
122	9.2	8.3	12.5





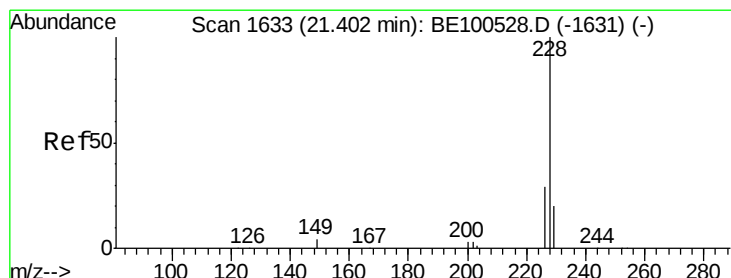
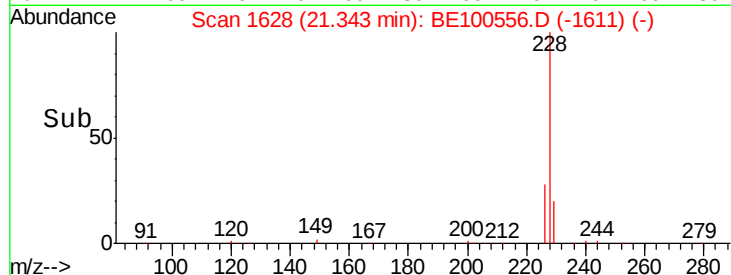
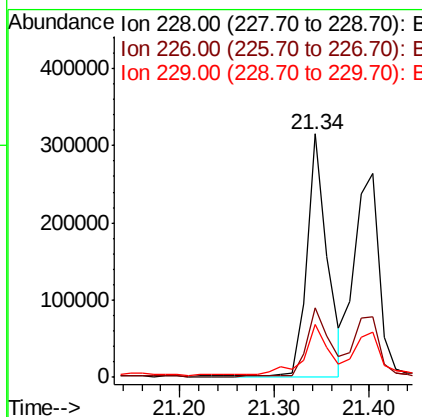
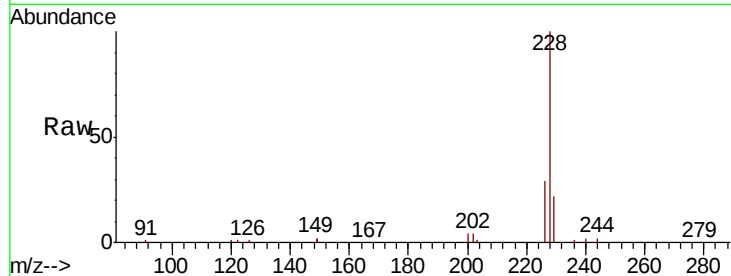
#30
Benzo(a)anthracene
Concen: 2.909 ng
RT: 21.34 min Scan# 1628
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	21.6	15.4	23.2

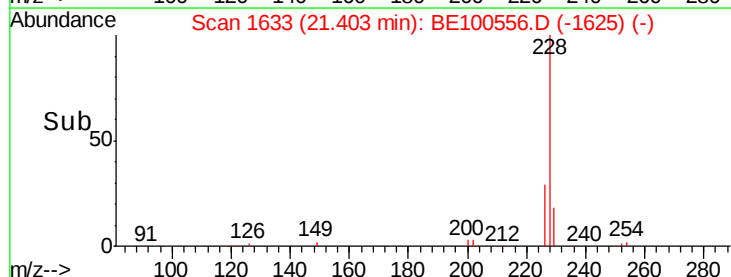
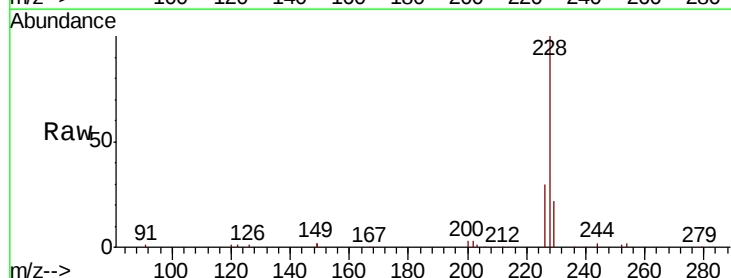
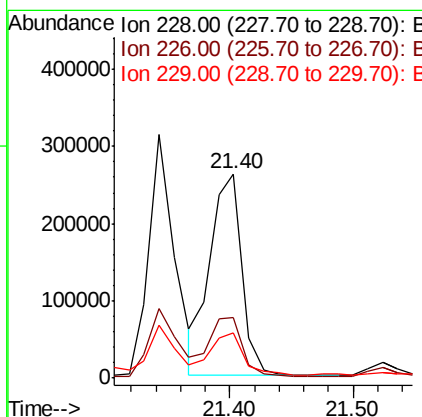
Manual Integrations
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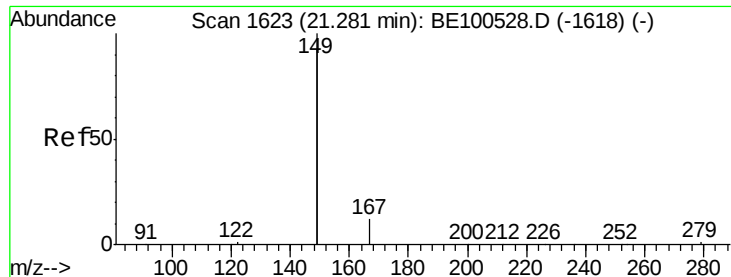
mohammad
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#31
Chrysene
Concen: 2.592 ng
RT: 21.40 min Scan# 1633
Delta R.T. 0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.3	34.9
229	22.4	16.3	24.5





#32

Bis(2-ethylhexyl)phthalate

Concen: 3.801 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100556.D

Acq: 25 Sep 2019 14:50

Instrument :

BNA_E

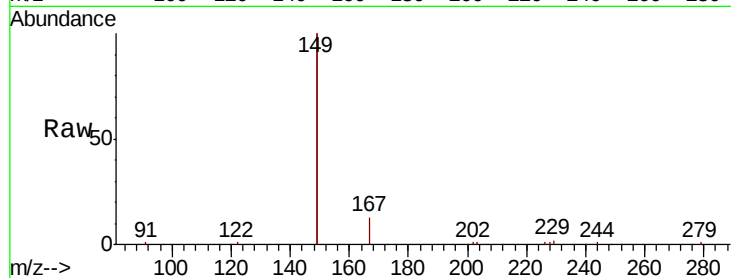
ClientSampleId :

EXT-SW153-091819-1

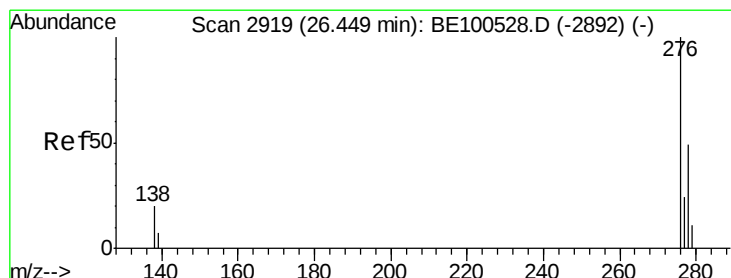
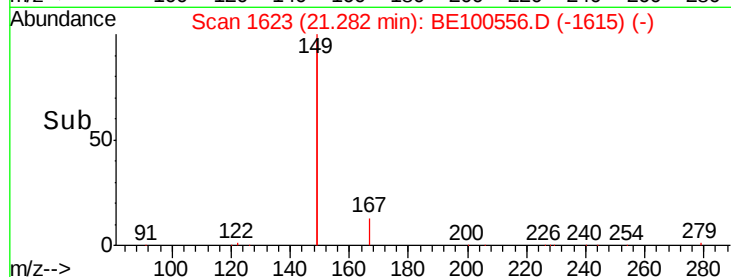
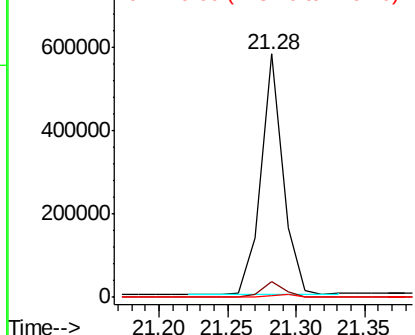
Tot Ion:	149	Resp:	652960
Ion Ratio	Lower	Upper	
149	100		
167	6.6	5.2	7.8
279	1.0	1.0	1.4

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



#33

Indeno(1,2,3-cd)pyrene

Concen: 1.230 ng

RT: 26.45 min Scan# 2919

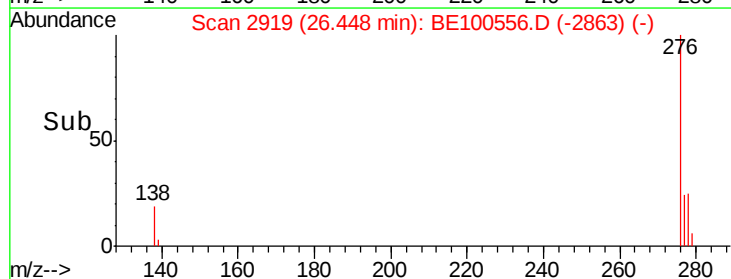
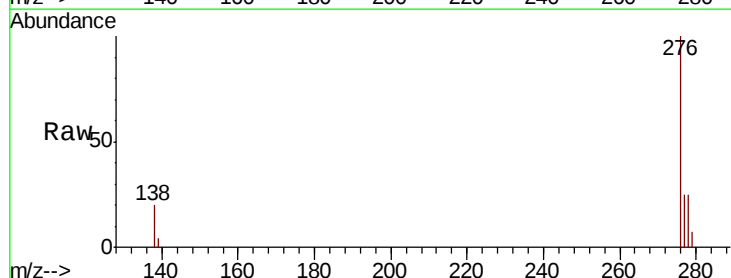
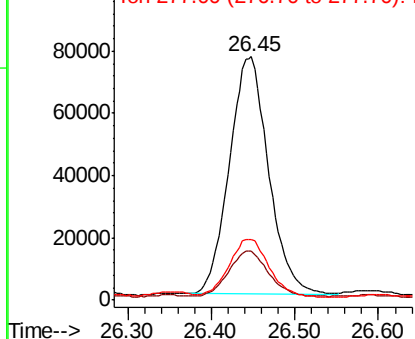
Delta R.T. -0.00 min

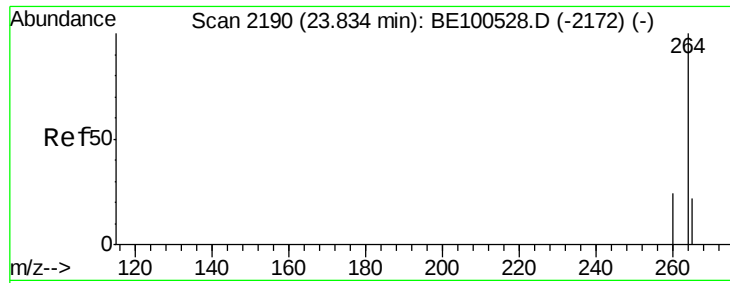
Lab File: BE100556.D

Acq: 25 Sep 2019 14:50

Tgt Ion:	276	Resp:	248368
Ion Ratio	Lower	Upper	
276	100		
138	19.7	17.7	26.5
277	24.8	19.9	29.9

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





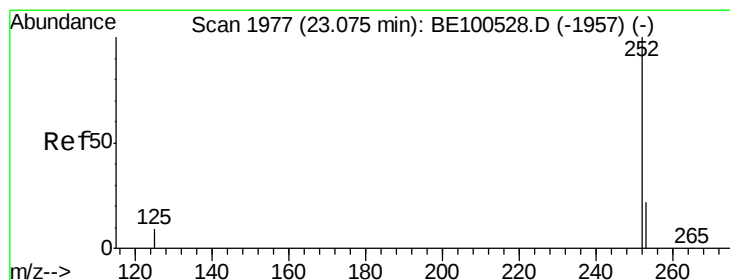
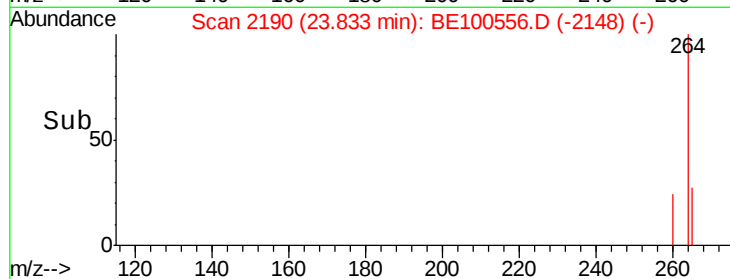
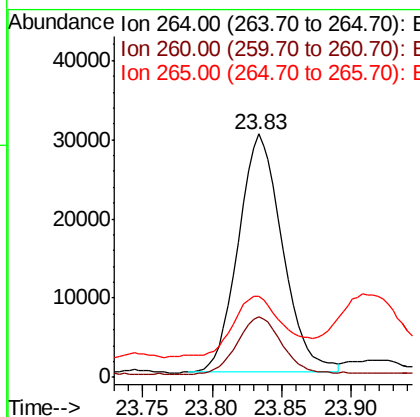
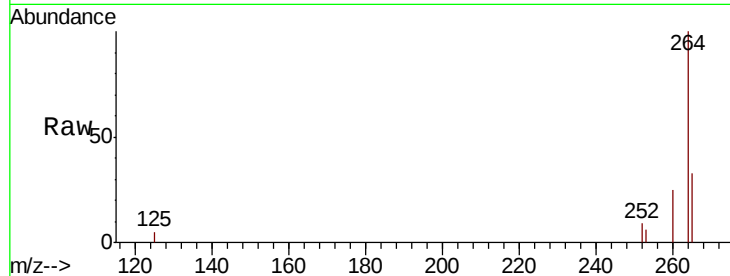
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.83 min Scan# 2190
Delta R.T. -0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.6	29.4
265	33.2	21.8	32.8

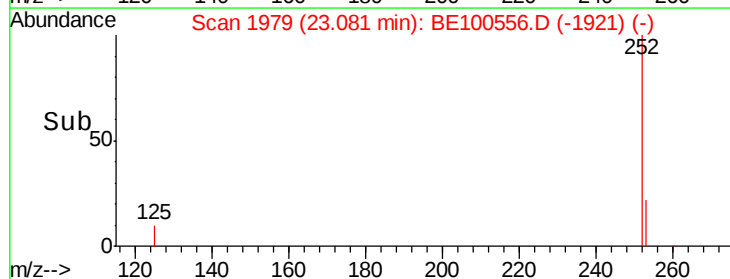
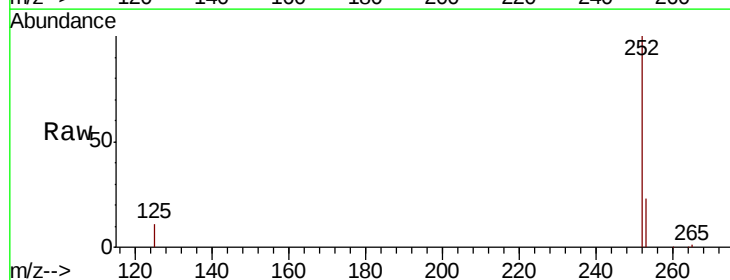
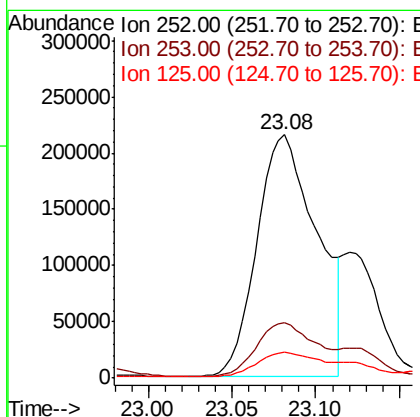
Manual Integrations
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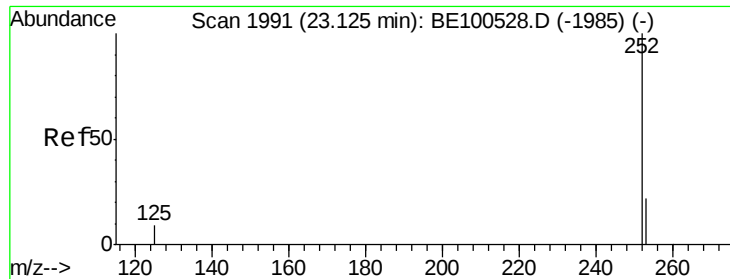
mohammad
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#35
Benzo(b)fluoranthene
Concen: 2.984 ng
RT: 23.08 min Scan# 1979
Delta R.T. 0.01 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	10.6	8.0	12.0





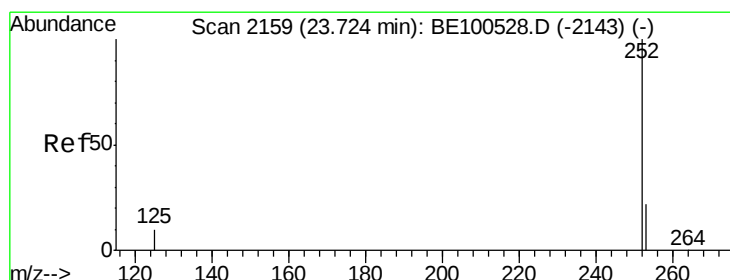
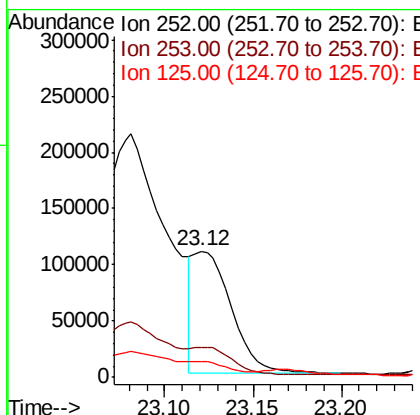
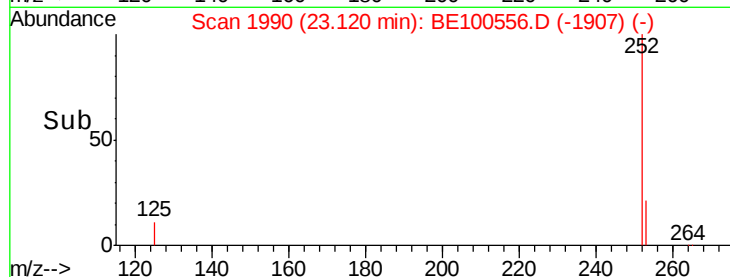
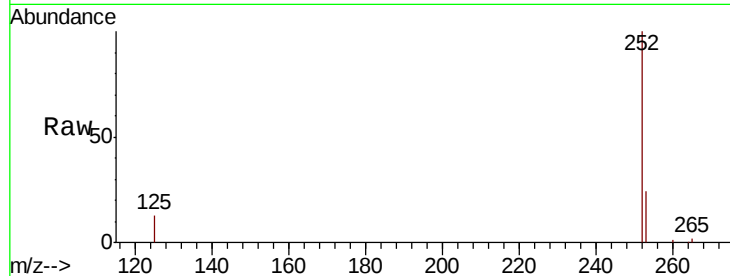
#36
Benzo(k)fluoranthene
Concen: 0.792 ng m
RT: 23.12 min Scan# 1990
Delta R.T. -0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.9	26.9
125	12.5	8.5	12.7

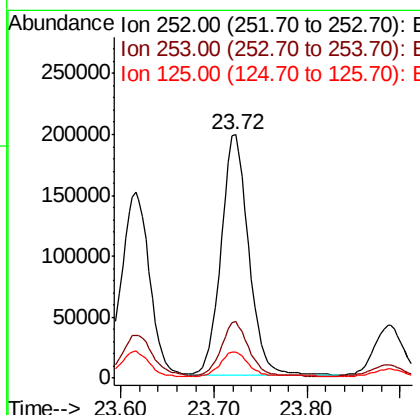
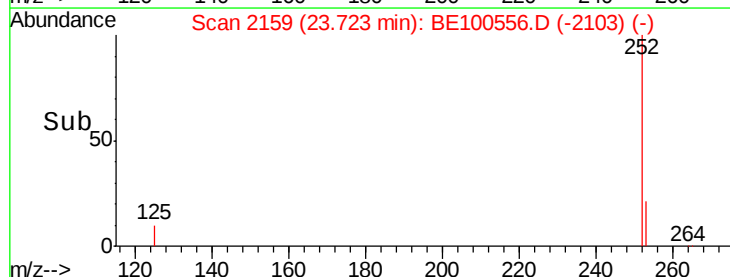
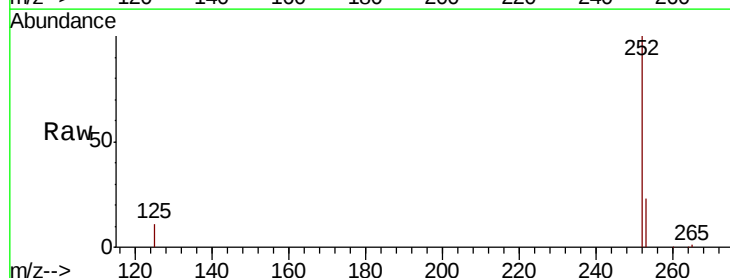
Manual Integrations
APPROVED

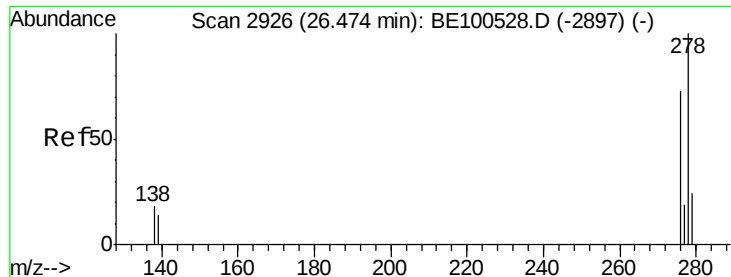
mohammad
9/26/2019 3:56:03 PM



#37
Benzo(a)pyrene
Concen: 2.408 ng
RT: 23.72 min Scan# 2159
Delta R.T. -0.00 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	10.8	9.2	13.8





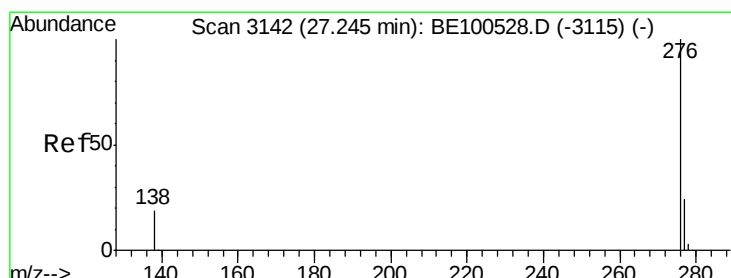
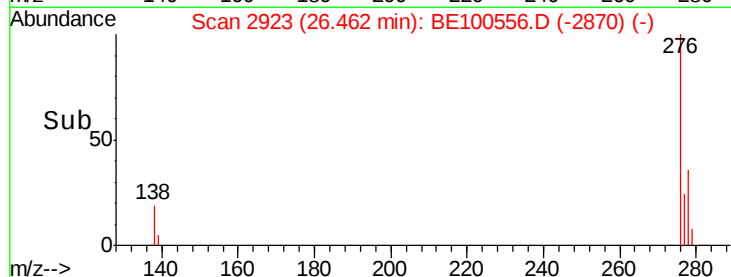
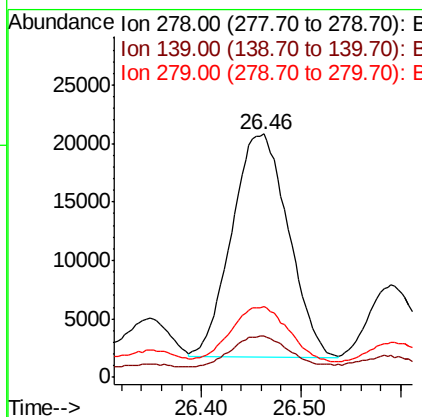
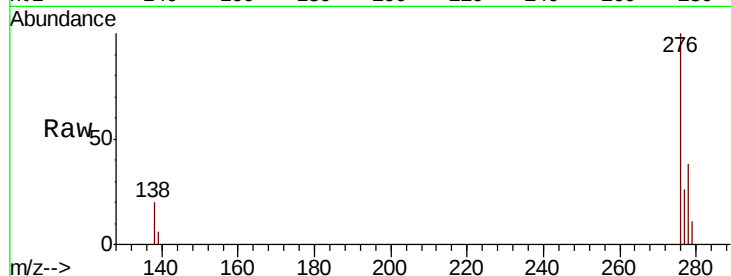
#38
Dibenzo(a,h)anthracene
Concen: 0.430 ng
RT: 26.46 min Scan# 2923
Delta R.T. -0.01 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Instrument :
BNA_E
ClientSampleId :
EXT-SW153-091819-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.8	11.6	17.4
279	28.9	19.7	29.5

Manual Integrations
APPROVED

mohammad
9/26/2019 3:56:03 PM



#39
Benzo(g,h,i)perylene
Concen: 1.503 ng
RT: 27.25 min Scan# 3144
Delta R.T. 0.01 min
Lab File: BE100556.D
Acq: 25 Sep 2019 14:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.2	28.8
138	20.6	15.7	23.5

