

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070219\
 Data File : BE100319.D
 Acq On : 3 Jul 2019 1:16
 Operator : JU/SJ
 Sample : K3504-20DL 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW136-062019DL

Manual Integrations
 APPROVED

mohammad
 7/3/2019 10:49:34 PM

Quant Time: Jul 03 04:10:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 28 14:06:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.64	152	1006	0.40	ng	0.00
7) Naphthalene-d8	10.43	136	3486	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	2595	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	7300	0.40	ng	0.00
27) Chrysene-d12	21.24	240	9392	0.40	ng	0.00
34) Perylene-d12	23.68	264	10903	0.40	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	369	0.14	ng	0.01
5) Phenol-d6	6.83	99	452	0.13	ng	-0.01
8) Nitrobenzene-d5	8.81	82	424	0.12	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	832	0.13	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	286	0.16	ng	-0.01
15) 2-Fluorobiphenyl	12.94	172	1316	0.13	ng	0.00
25) Fluoranthene-d10	19.10	212	12225	0.12	ng	0.00
29) Terphenyl-d14	19.70	244	2803	0.14	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.48	128	7083	0.184	ng	99
12) 2-Methylnaphthalene	12.12	142	1510	0.224	ng	97
16) Acenaphthylene	14.04	152	8726	0.701	ng	98
17) Acenaphthene	14.38	154	1037	0.147	ng	96
18) Fluorene	15.35	166	3774	0.362	ng	# 92
23) Phenanthrene	17.09	178	84254	4.762	ng	99
24) Anthracene	17.19	178	6769	0.425	ng	96
26) Fluoranthene	19.13	202	159799	5.670	ng	99
28) Pyrene	19.49	202	178602	7.183	ng	97
30) Benzo(a)anthracene	21.23	228	97494	3.157	ng	97
31) Chrysene	21.28	228	103746	3.346	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	63095	1.388	ng	100
33) Indeno(1,2,3-cd)pyrene	26.24	276	59855	1.459	ng	# 97
35) Benzo(b)fluoranthene	22.93	252	113709	3.847	ng	# 96
36) Benzo(k)fluoranthene	22.97	252	41893m	1.270	ng	
37) Benzo(a)pyrene	23.57	252	84918m	2.866	ng	
38) Dibenzo(a,h)anthracene	26.25	278	15360	0.496	ng	# 86
39) Benzo(a,h,i)perylene	27.04	276	63607	2.001	ng	99

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

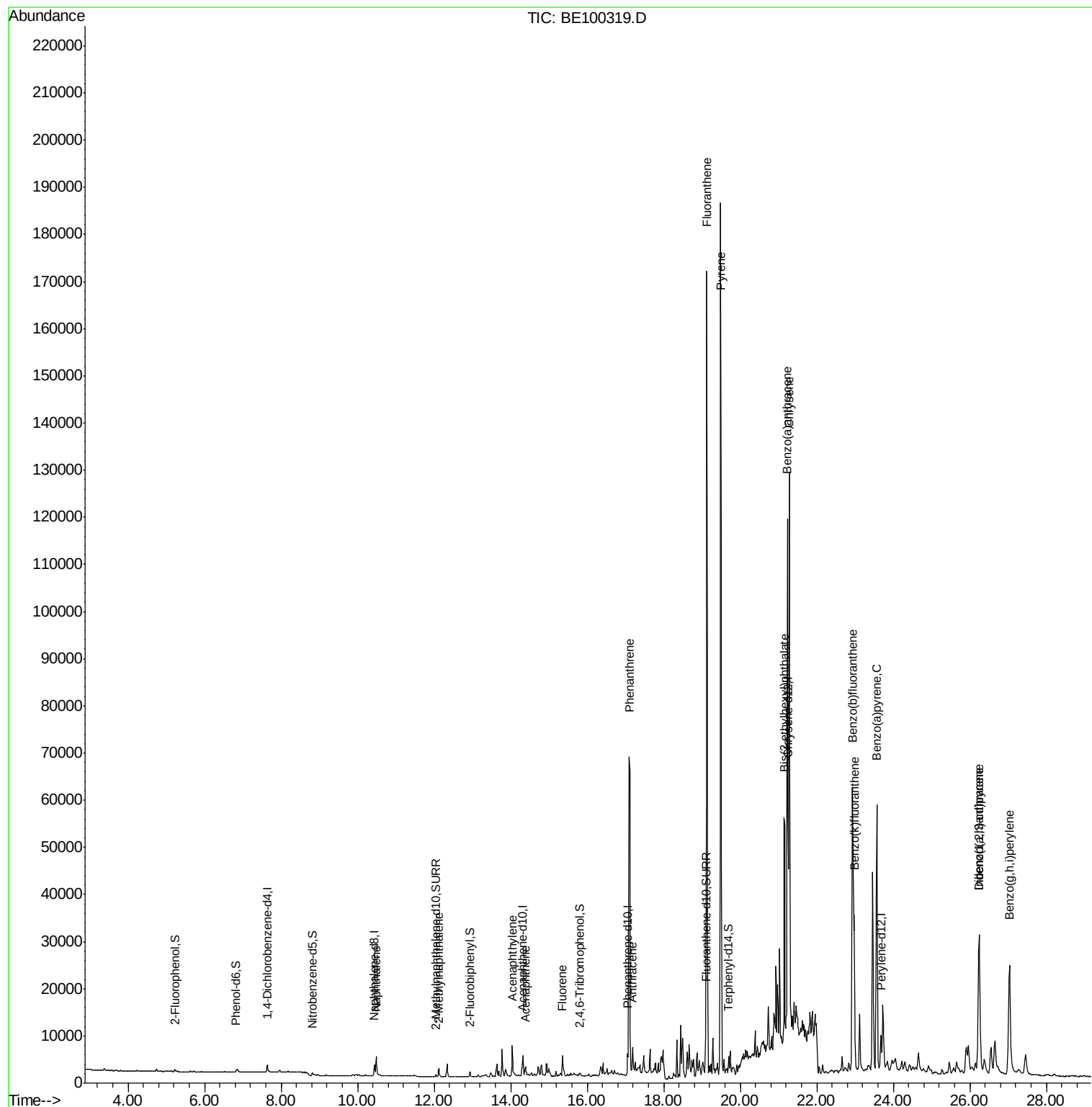
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070219\
Data File : BE100319.D
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Misc :
ALS Vial : 17 Sample Multiplier: 1

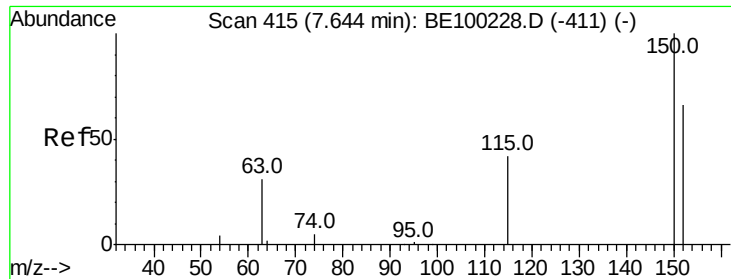
Instrument :
BNA_E
ClientSampleId :
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Quant Time: Jul 03 04:10:54 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 28 14:06:53 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.64 min Scan# 415

Delta R.T. -0.00 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Instrument :

BNA_E

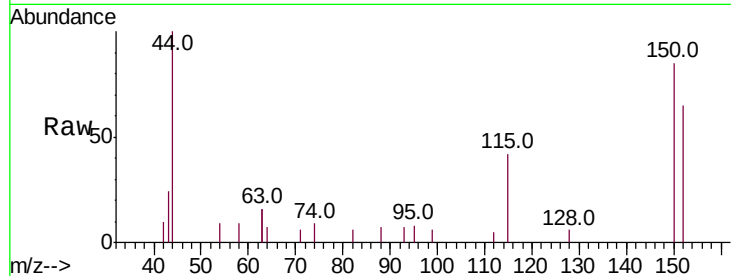
ClientSampleId :

EXT-009-SW136-062019DL

Tot Ion:	152	Resp:	1006
Ion Ratio	Lower	Upper	
152	100		
150	131.3	114.5	171.7
115	64.4	57.1	85.7

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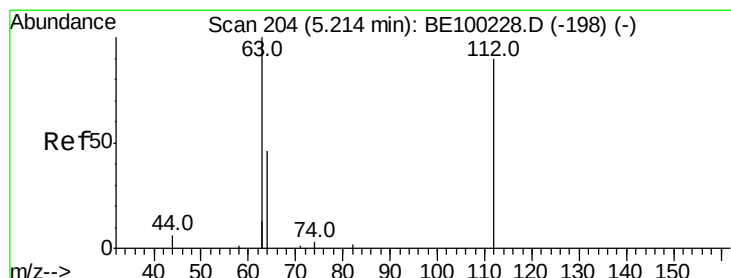
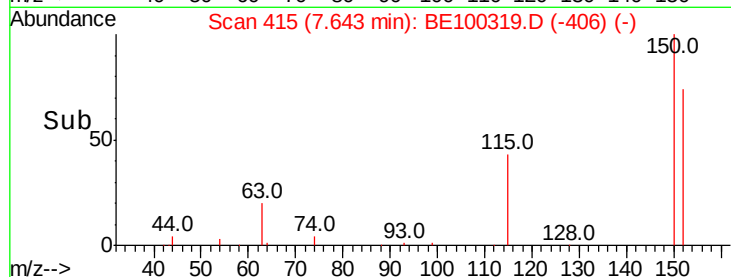
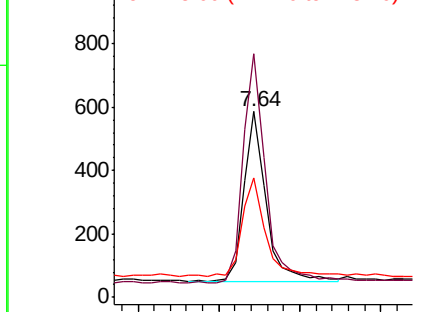


Abundance

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: 0.144 ng

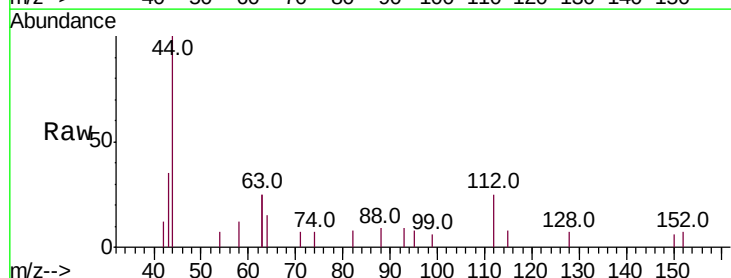
RT: 5.22 min Scan# 205

Delta R.T. 0.01 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Tgt Ion:	112	Resp:	369
Ion Ratio	Lower	Upper	
112	100		
64	55.8	39.4	59.0
63	194.9	104.5	156.7

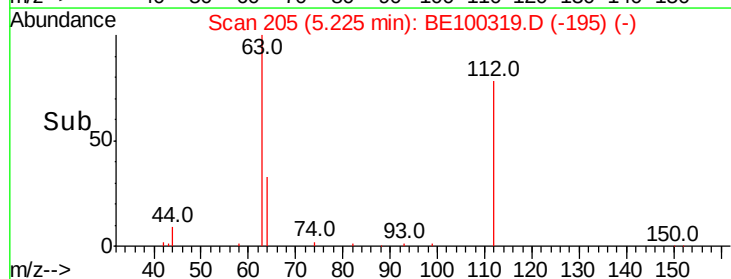
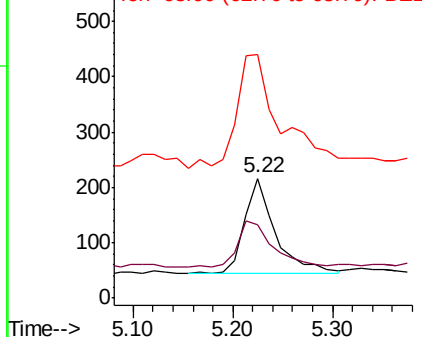


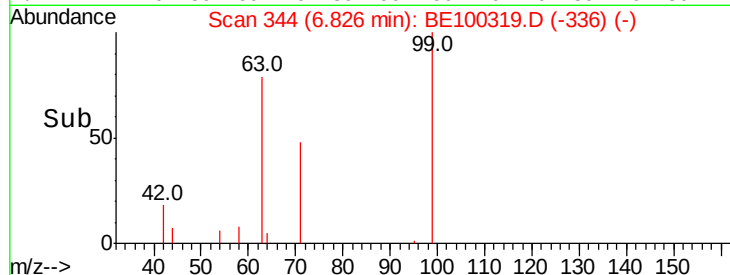
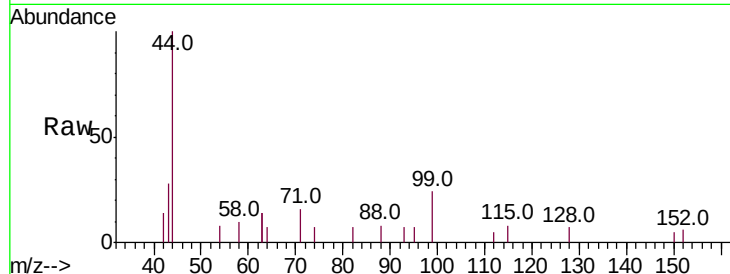
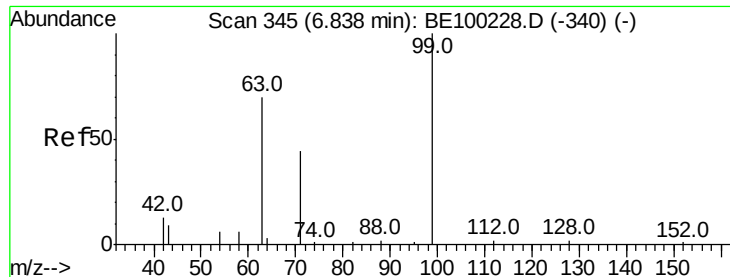
Abundance

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: 0.134 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

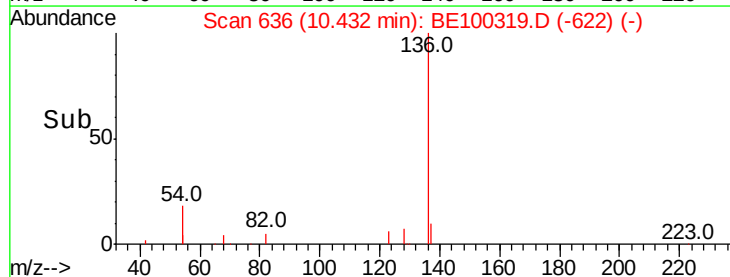
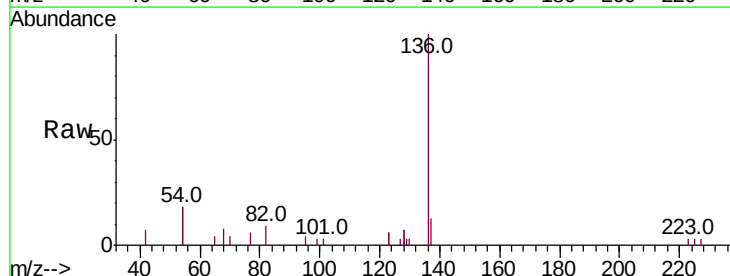
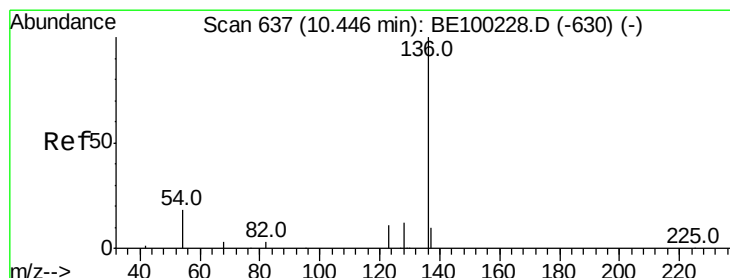
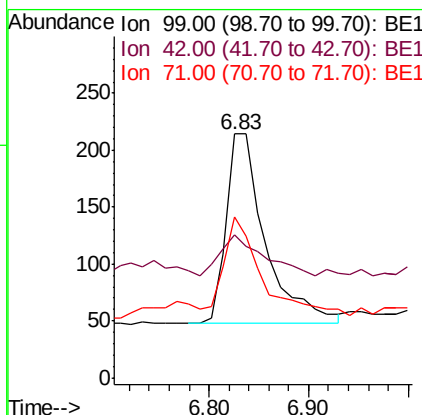
Tot Ion: 99 Resp: 452

Ion	Ratio	Lower	Upper
99	100		
42	23.5	11.2	16.8#
71	48.9	37.2	55.8

Instrument :
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#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.43 min Scan# 636

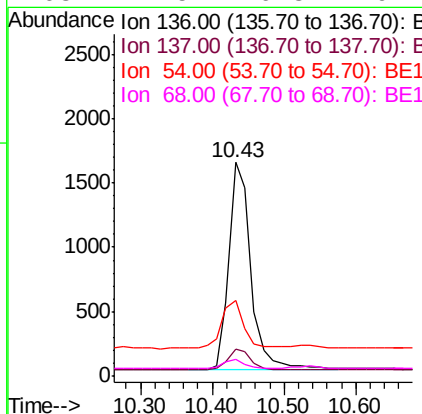
Delta R.T. -0.01 min

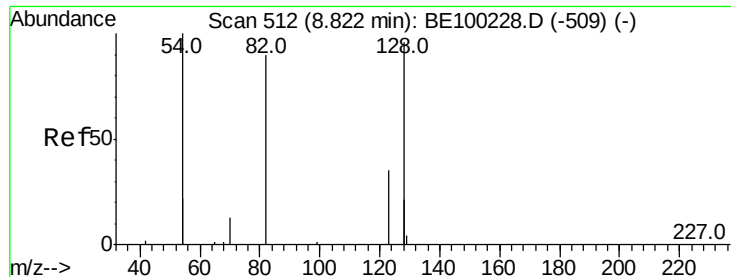
Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Tgt Ion: 136 Resp: 3486

Ion	Ratio	Lower	Upper
136	100		
137	12.8	11.8	17.8
54	35.2	27.7	41.5
68	7.5	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.122 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Instrument :

BNA_E

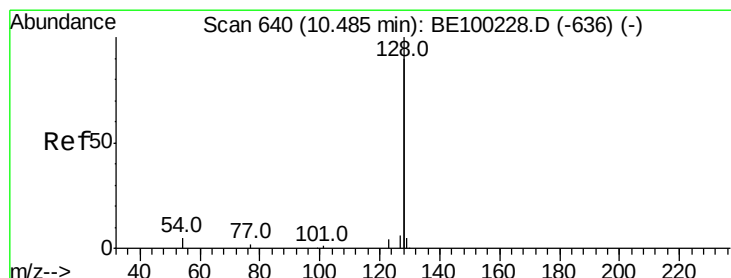
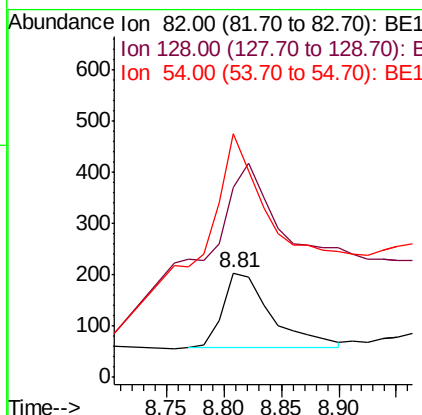
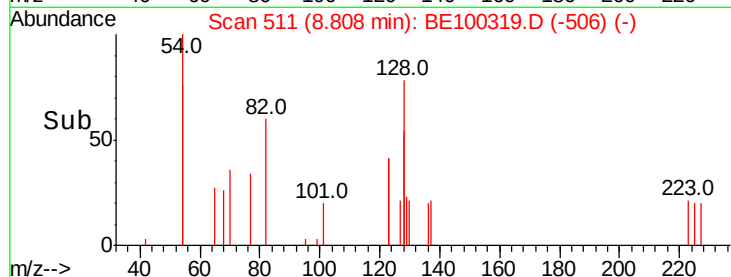
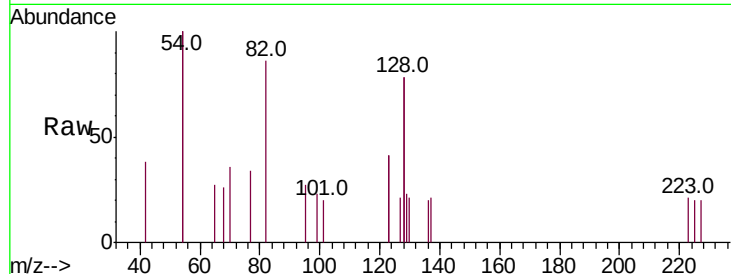
ClientSampleId :

EXT-009-SW136-062019DL

Tot Ion:	82	Resp:	424
Ion	Ratio	Lower	Upper
82	100		
128	181.4	140.9	211.3
54	233.3	146.2	219.2#

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#9

Naphthalene

Concen: 0.184 ng

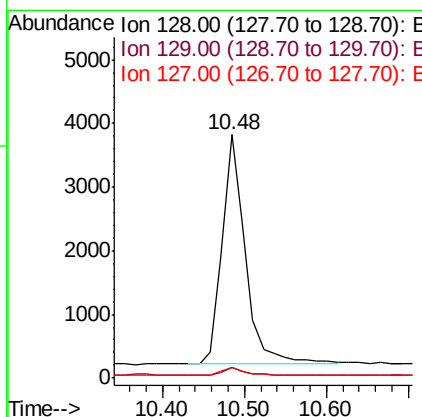
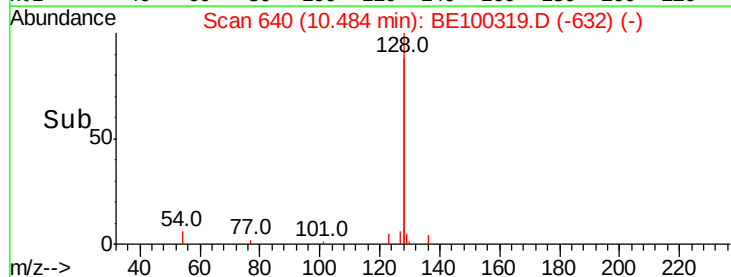
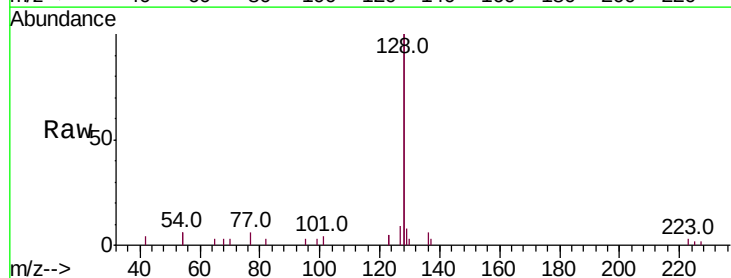
RT: 10.48 min Scan# 640

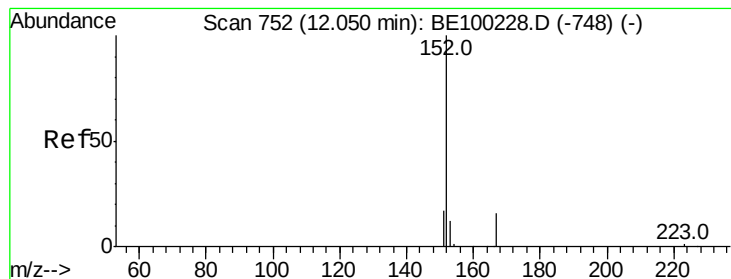
Delta R.T. -0.00 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Tgt Ion:	128	Resp:	7083
Ion	Ratio	Lower	Upper
128	100		
129	4.1	3.0	4.6
127	4.4	3.5	5.3





#11

2-Methylnaphthalene-d10

Concen: 0.127 ng

RT: 12.04 min Scan# 751

Delta R.T. -0.01 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Instrument :

BNA_E

ClientSampleId :

EXT-009-SW136-062019DL

Tot Ion:152 Resp: 832

Ion Ratio Lower Upper

152 100

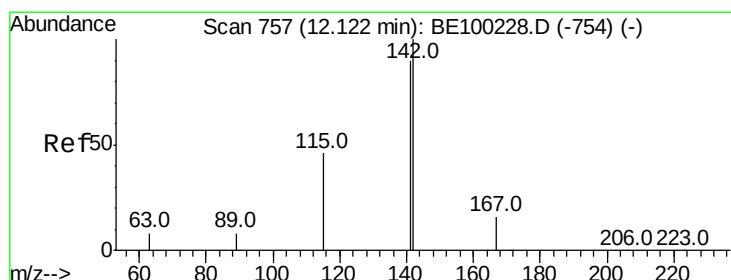
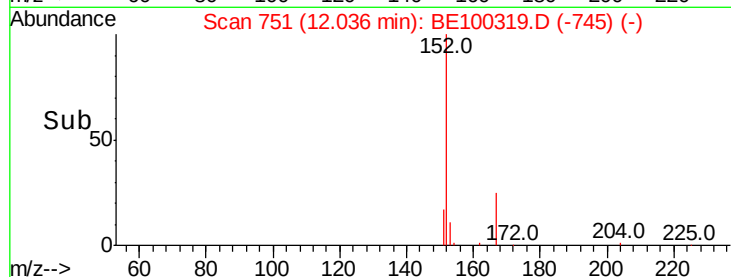
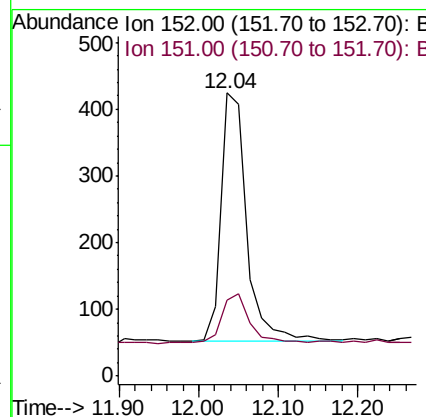
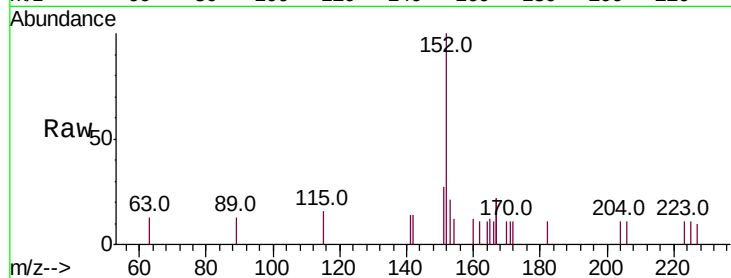
151 19.5 15.1 22.7

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#12

2-Methylnaphthalene

Concen: 0.224 ng

RT: 12.12 min Scan# 757

Delta R.T. -0.00 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

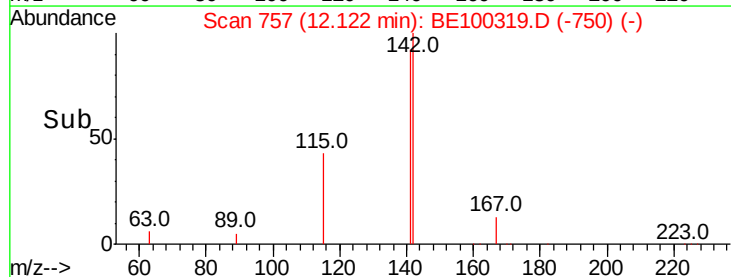
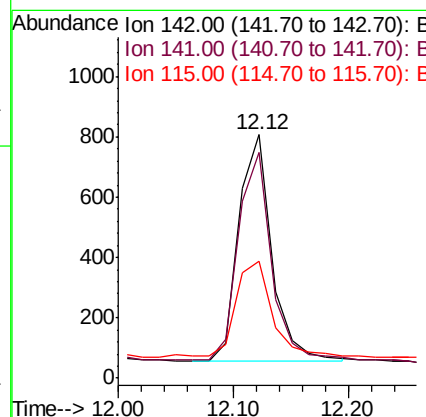
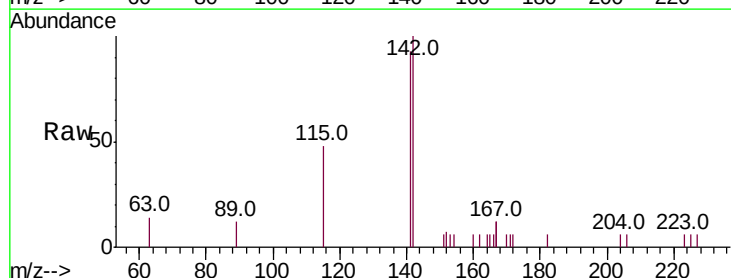
Tgt Ion:142 Resp: 1510

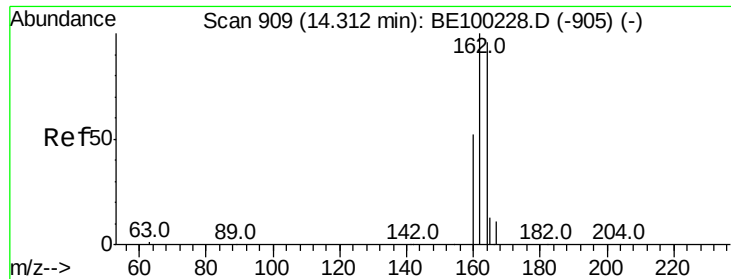
Ion Ratio Lower Upper

142 100

141 92.6 72.4 108.6

115 48.2 40.4 60.6





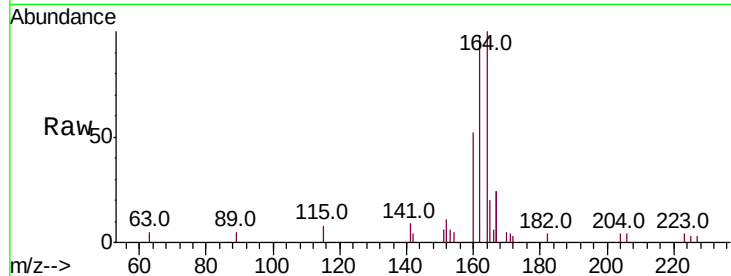
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Instrument :
BNA_E
ClientSampleId :
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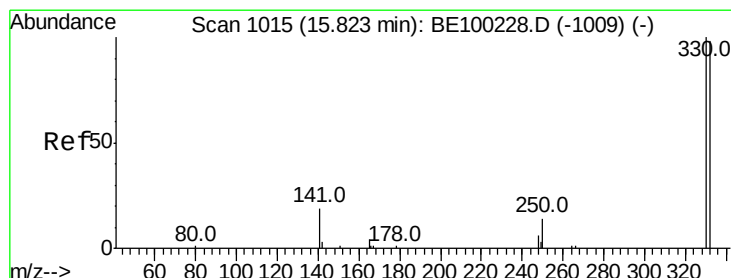
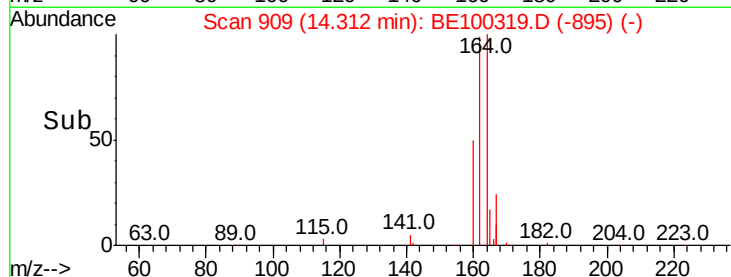
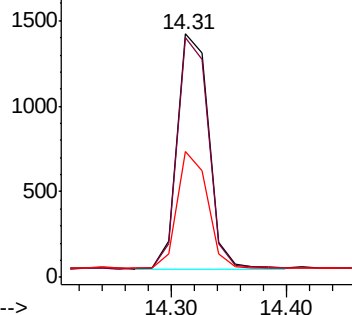
Tot Ion	Ratio	Lower	Upper
164	100		
162	98.4	83.4	125.0
160	51.9	45.0	67.6

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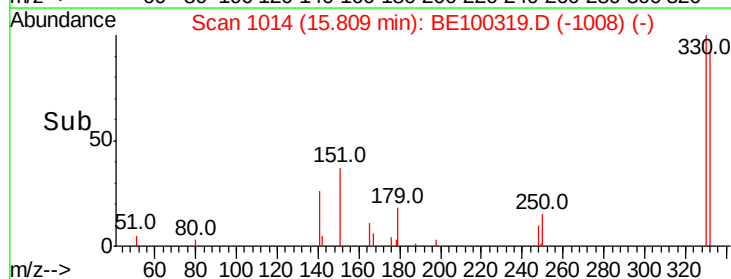
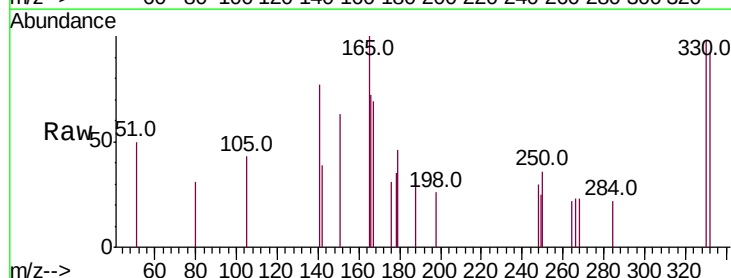
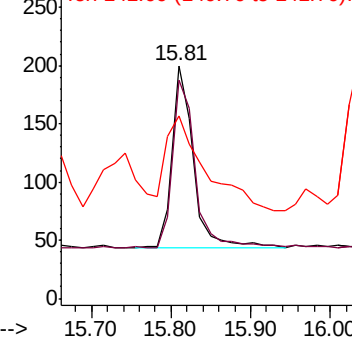
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

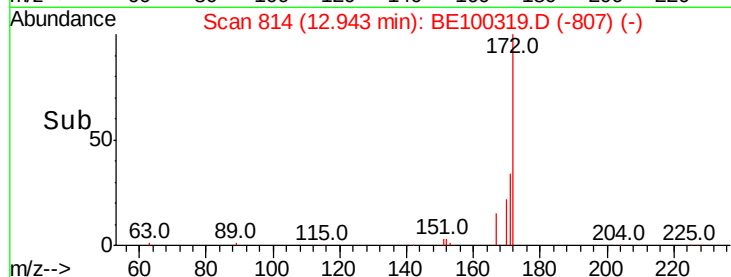
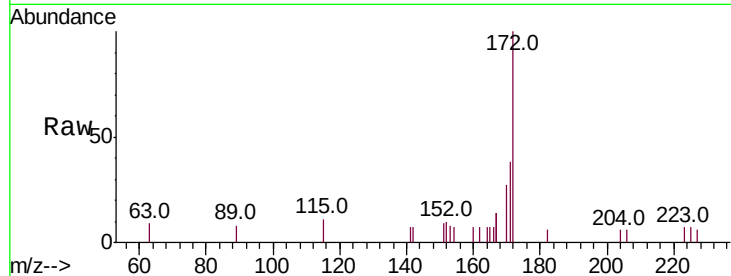
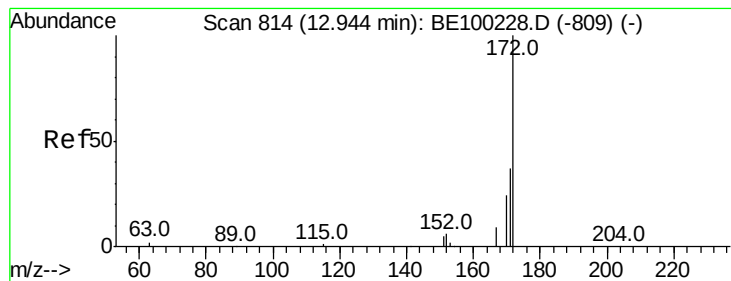


#14
2,4,6-Tribromophenol
Concen: 0.158 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	100.0	77.0	115.4
141	97.2	22.0	33.0#

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





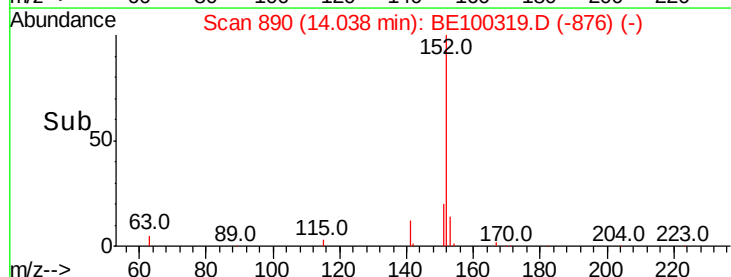
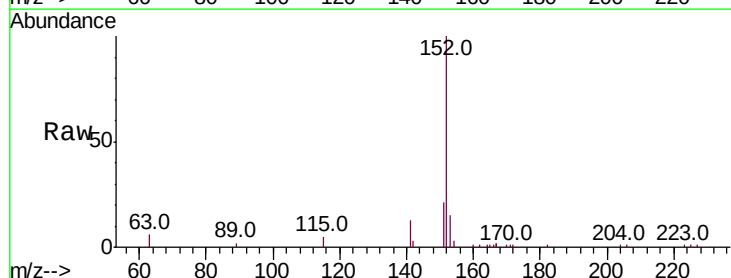
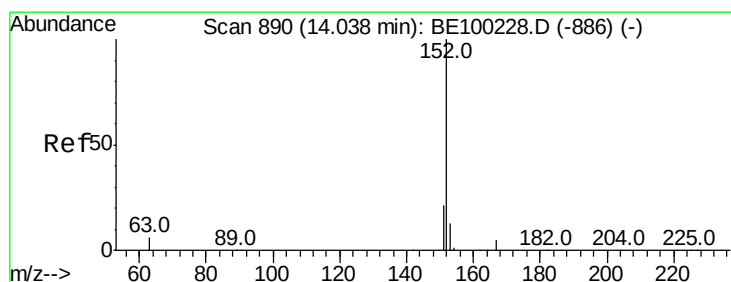
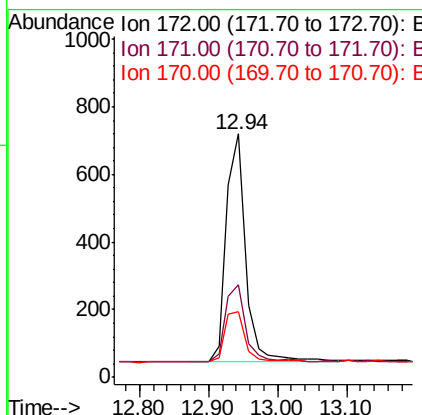
#15
2-Fluorobiphenyl
Concen: 0.130 ng
RT: 12.94 min Scan# 814
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tot Ion:	172	Resp:	1316
Ion Ratio	Lower	Upper	
172	100		
171	37.9	31.9	47.9
170	26.9	22.2	33.2

Instrument :
BNA_E
ClientSampleId :
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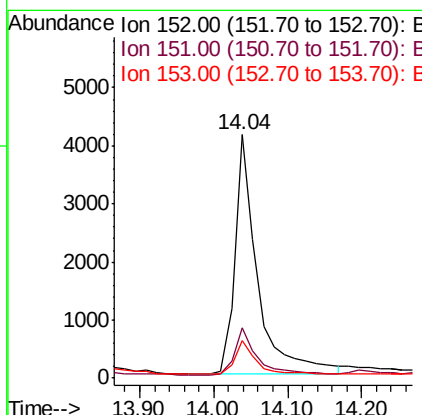
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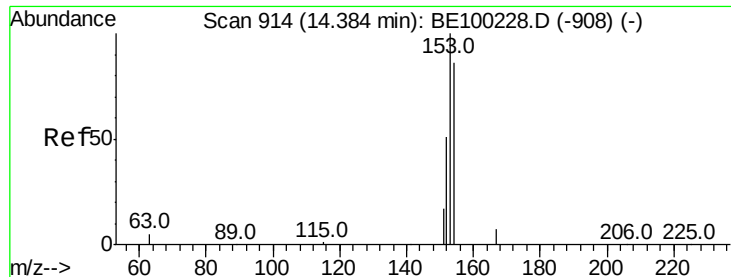
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#16
Acenaphthylene
Concen: 0.701 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion:	152	Resp:	8726
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.6	25.0
153	13.9	10.5	15.7





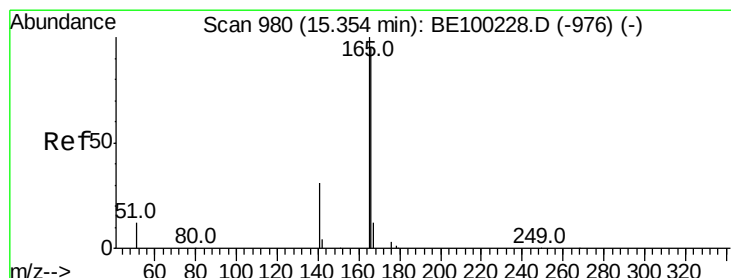
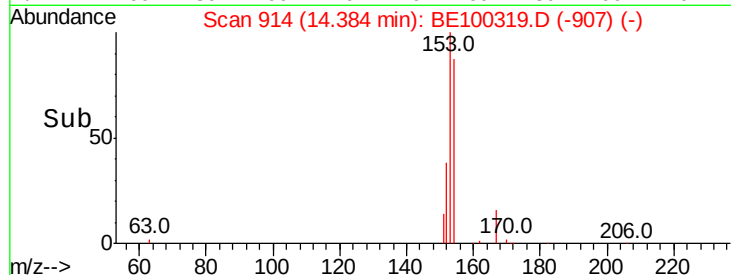
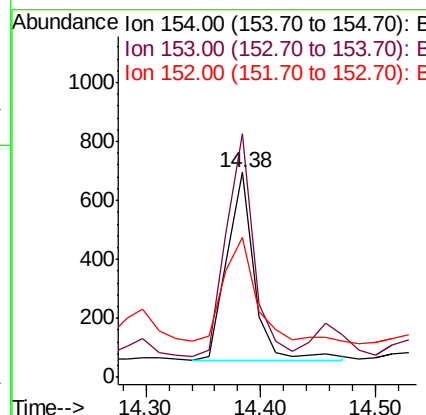
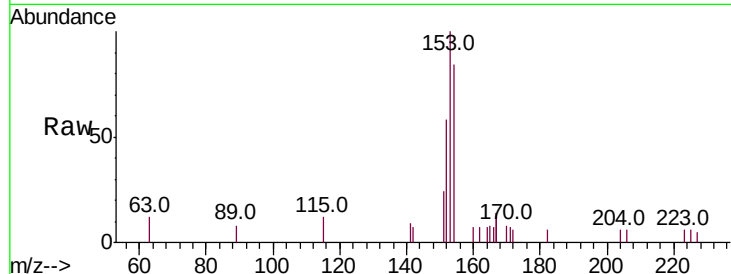
#17
Acenaphthene
Concen: 0.147 ng
RT: 14.38 min Scan# 914
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW136-062019DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	120.2	93.4	140.2
152	65.3	49.4	74.2

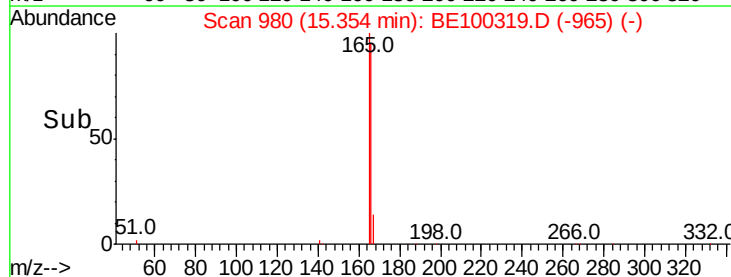
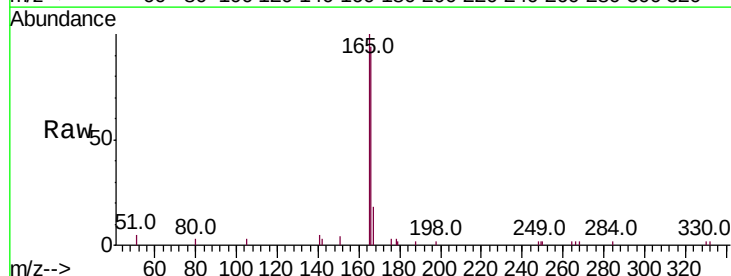
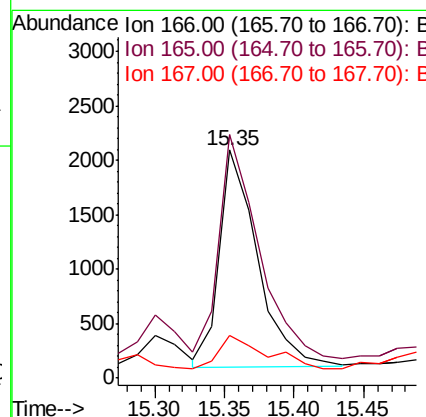
Manual Integrations
APPROVED

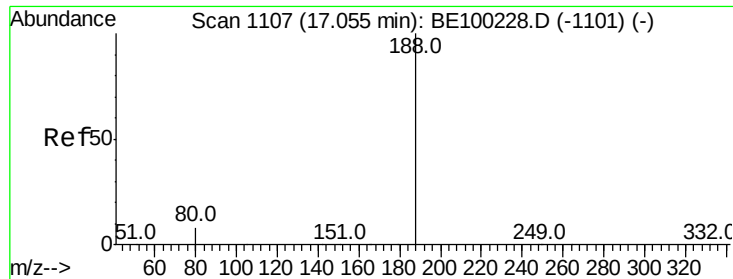
mohammad
7/3/2019 10:49:34 PM



#18
Fluorene
Concen: 0.362 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Lower	Upper
166	100		
165	109.0	81.1	121.7
167	19.5	10.7	16.1#





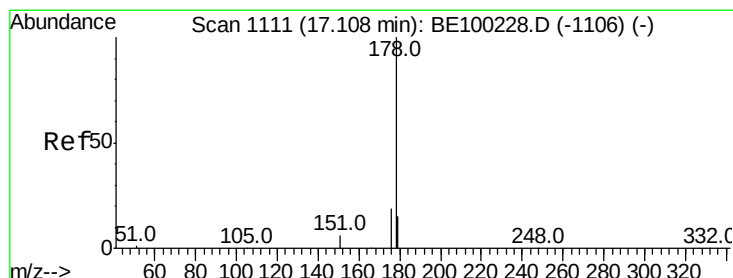
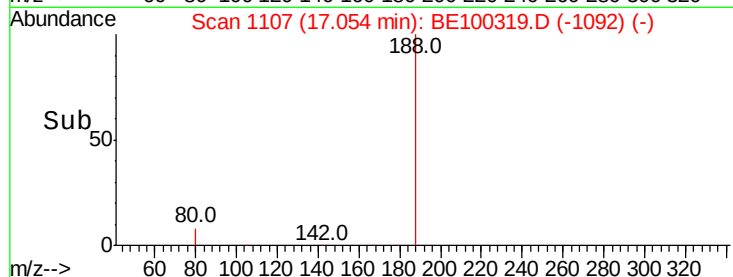
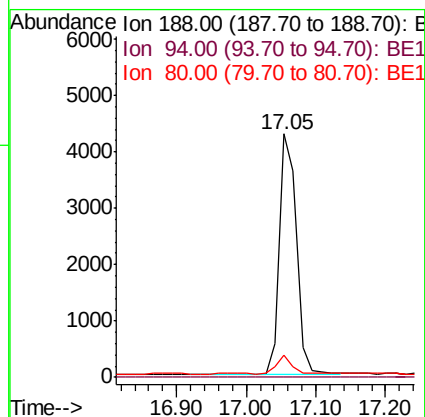
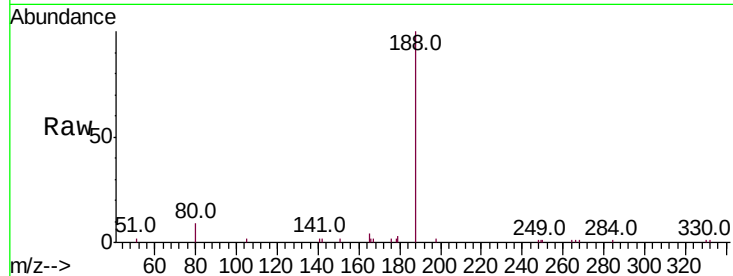
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW136-062019DL

Tot Ion:	188	Resp:	7300
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.0	7.6	11.4

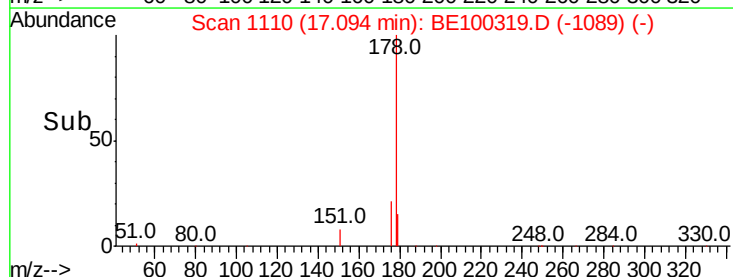
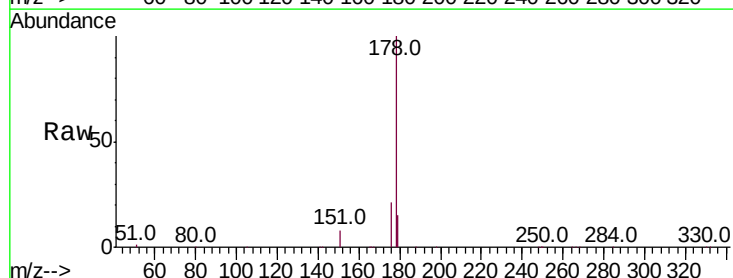
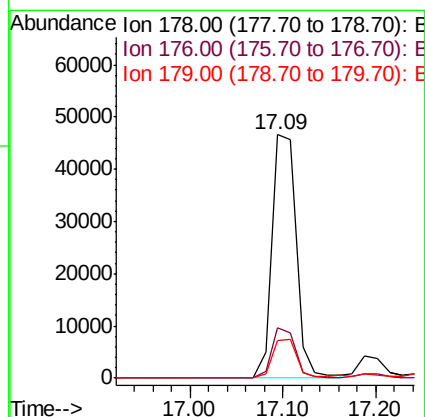
Manual Integrations
APPROVED

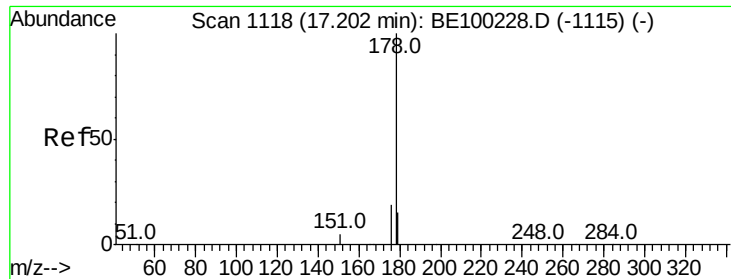
mohammad
7/3/2019 10:49:34 PM



#23
Phenanthrene
Concen: 4.762 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion:	178	Resp:	84254
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.9	23.9
179	15.7	12.2	18.2





#24

Anthracene

Concen: 0.425 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Instrument :

BNA_E

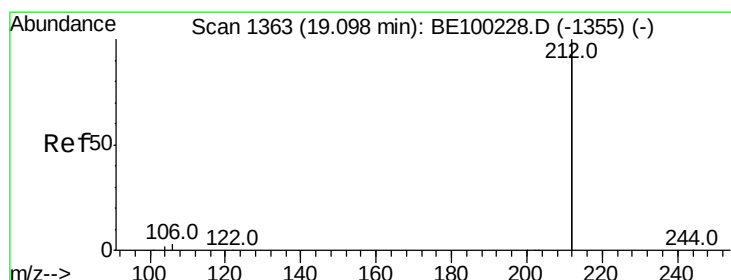
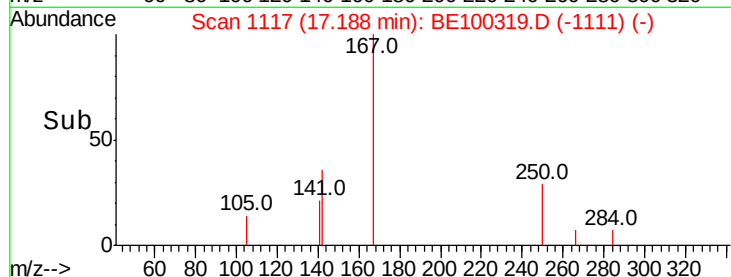
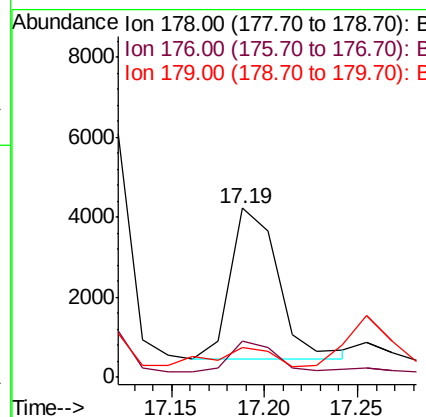
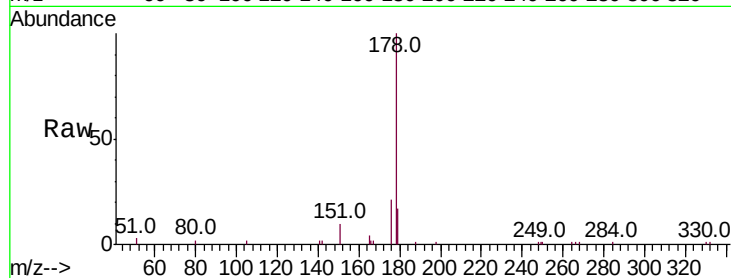
ClientSampleId :

EXT-009-SW136-062019DL

Tot Ion:	178	Resp:	6769
Ion Ratio	Lower	Upper	
178	100		
176	21.9	15.3	22.9
179	15.0	12.2	18.2

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.115 ng

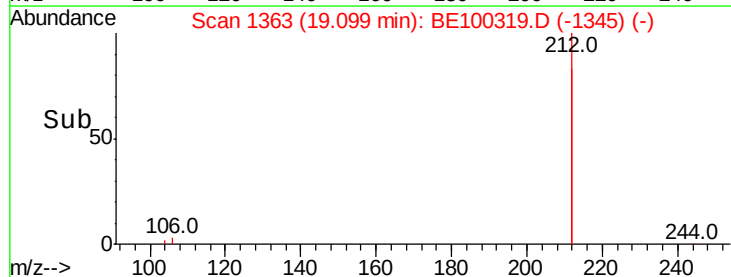
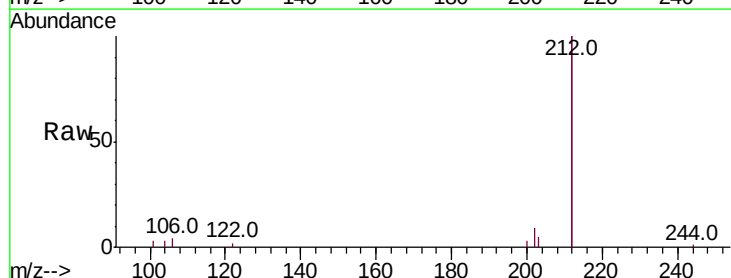
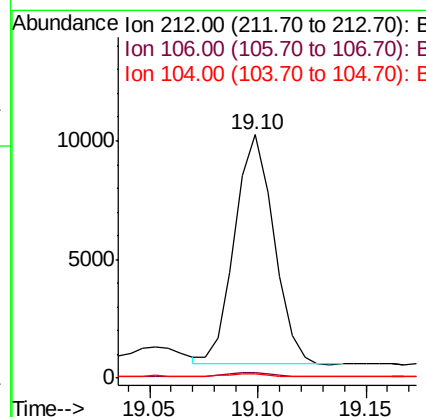
RT: 19.10 min Scan# 1363

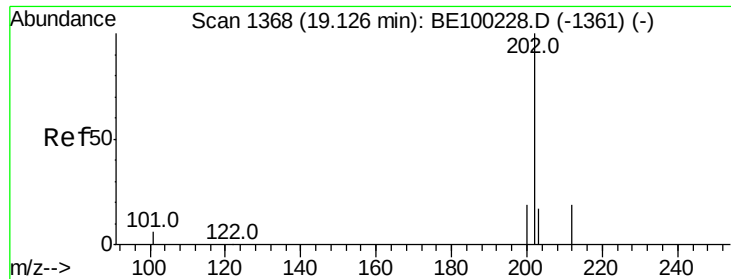
Delta R.T. 0.00 min

Lab File: BE100319.D

Acq: 3 Jul 2019 1:16

Tgt Ion:	212	Resp:	12225
Ion Ratio	Lower	Upper	
212	100		
106	1.5	1.3	1.9
104	1.1	0.8	1.2





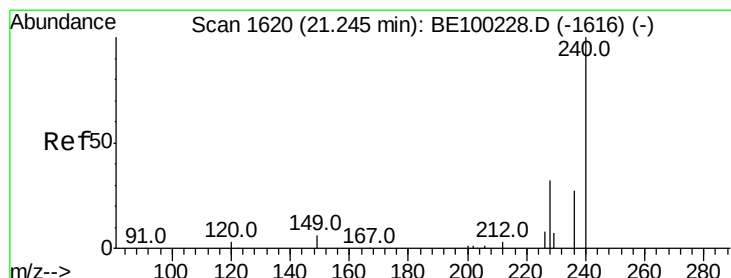
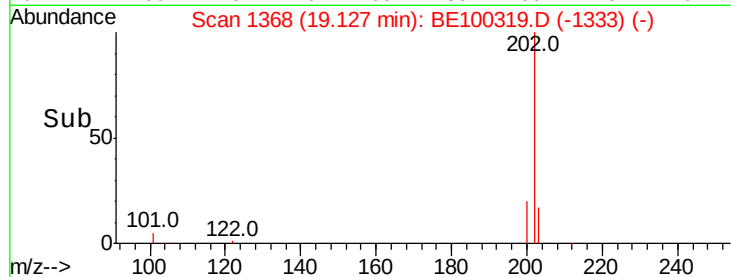
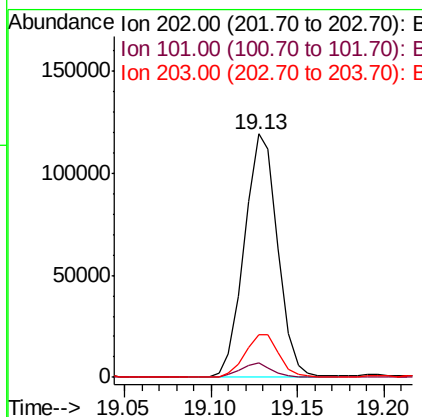
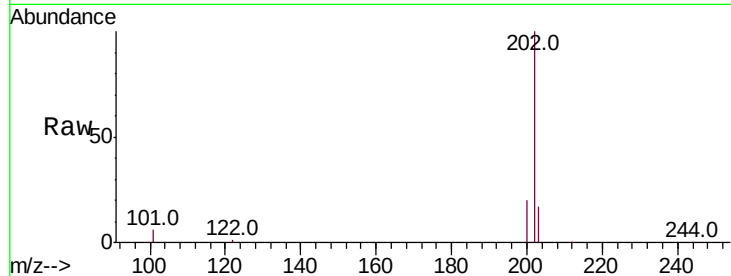
#26
 Fluoranthene
 Concen: 5.670 ng
 RT: 19.13 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: BE100319.D
 Acq: 3 Jul 2019 1:16

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW136-062019DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	159799		
101	5.5		4.6	7.0
203	17.7		13.7	20.5

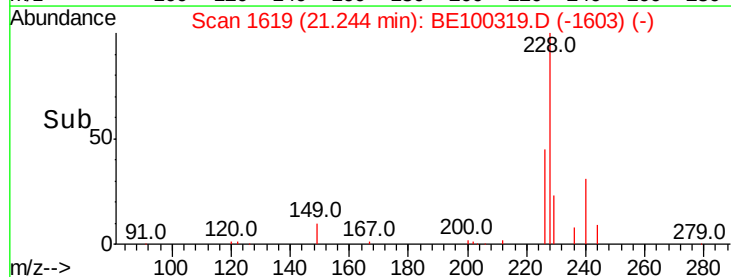
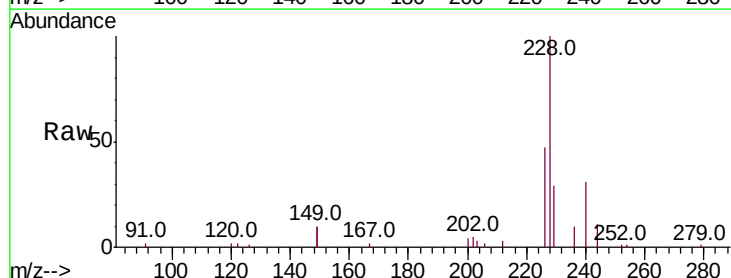
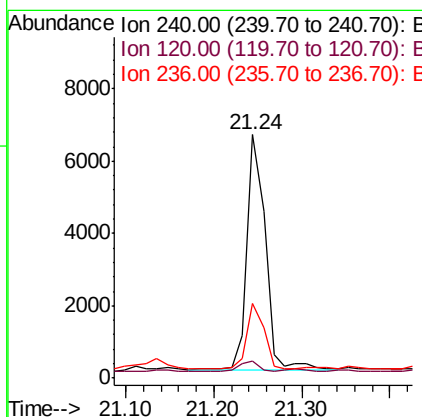
Manual Integrations
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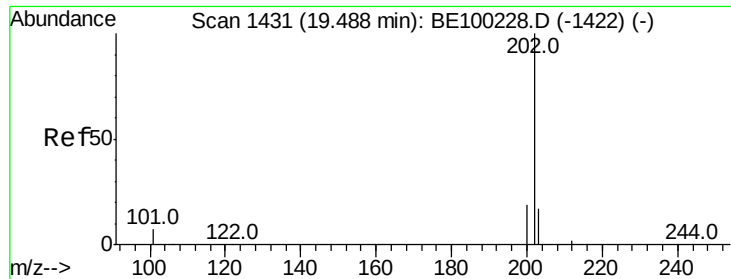
mohammad
 7/3/2019 10:49:34 PM



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.24 min Scan# 1619
 Delta R.T. -0.00 min
 Lab File: BE100319.D
 Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	9392		
120	7.0		3.3	4.9#
236	30.6		22.6	34.0





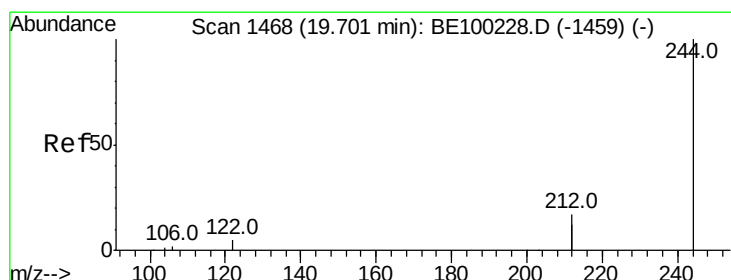
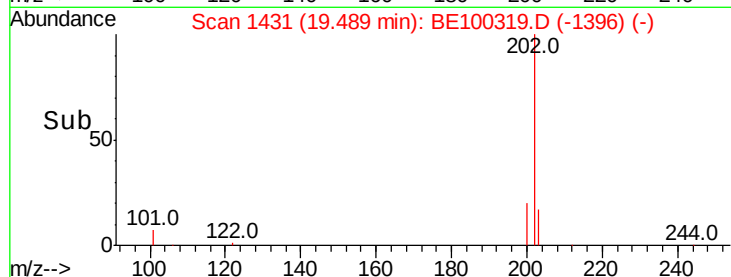
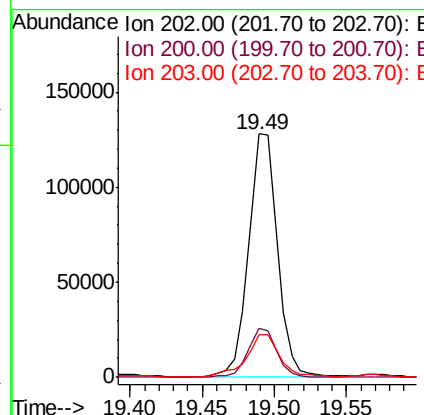
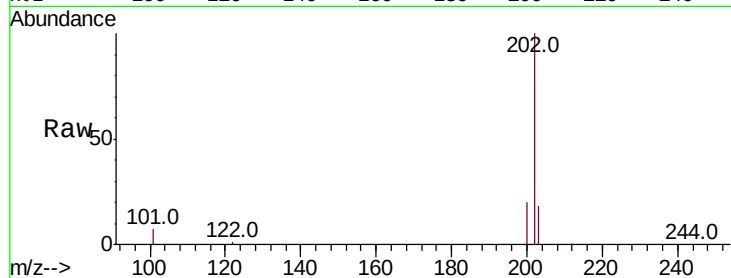
#28
Pvrene
Concen: 7.183 ng
RT: 19.49 min Scan# 1431
Delta R.T. 0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW136-062019DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	19.7	15.6	23.4	
203	20.1	14.0	21.0	

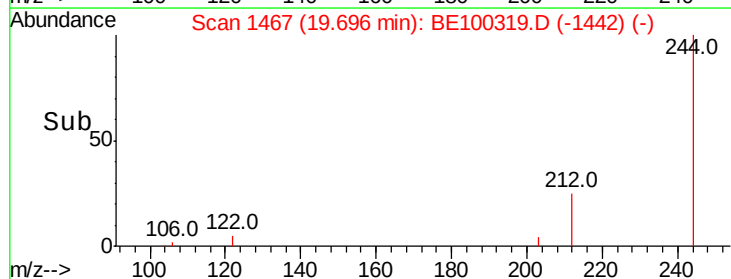
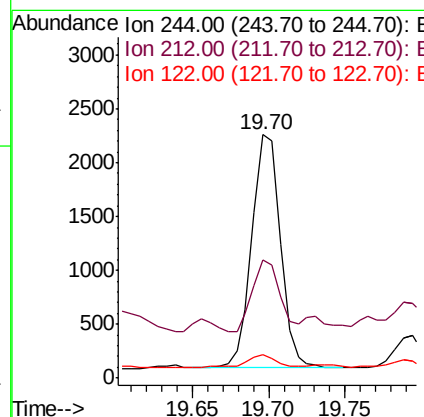
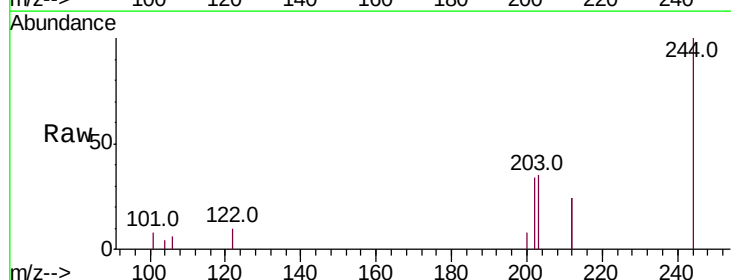
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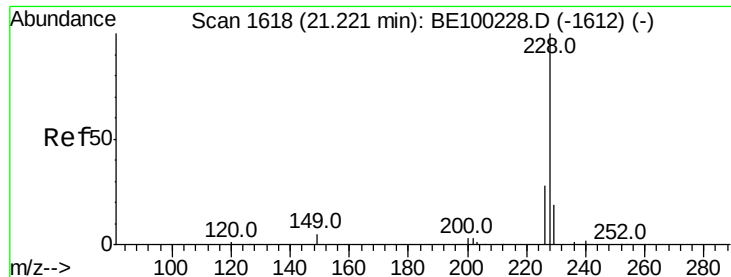
mohammad
7/3/2019 10:49:34 PM



#29
Terphenyl-d14
Concen: 0.144 ng
RT: 19.70 min Scan# 1467
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	48.3	27.3	40.9#	
122	9.6	4.7	7.1#	





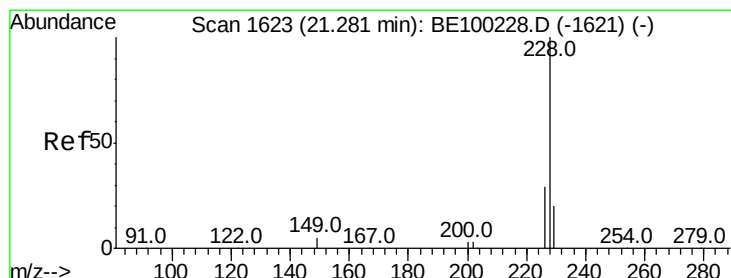
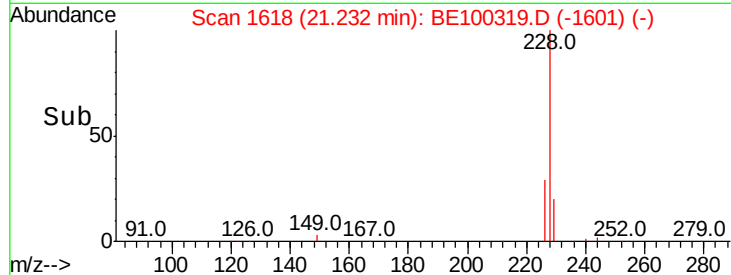
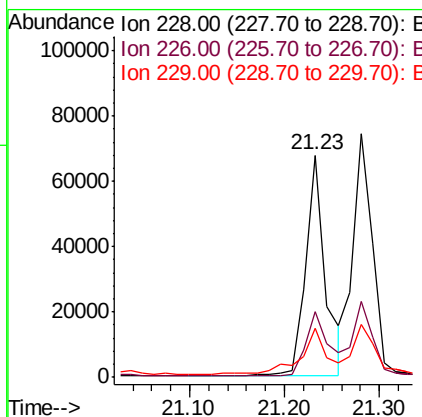
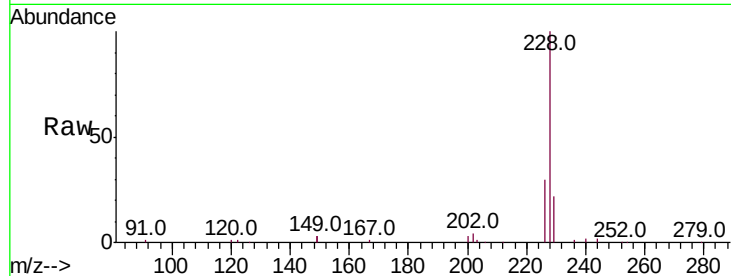
#30
Benzo(a)anthracene
Concen: 3.157 ng
RT: 21.23 min Scan# 1618
Delta R.T. 0.01 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW136-062019DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.2	34.8
229	22.2	15.7	23.5

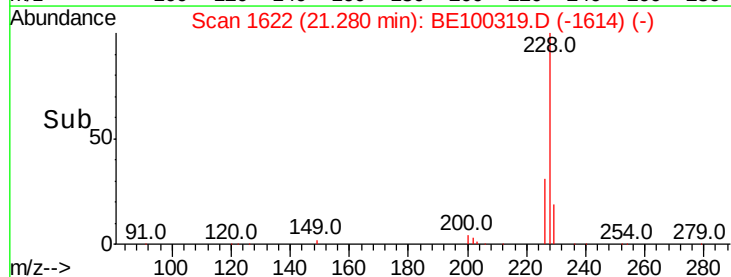
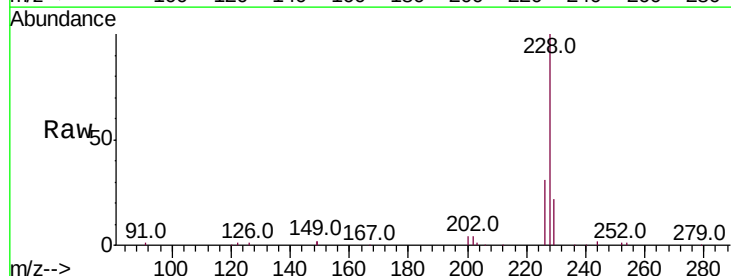
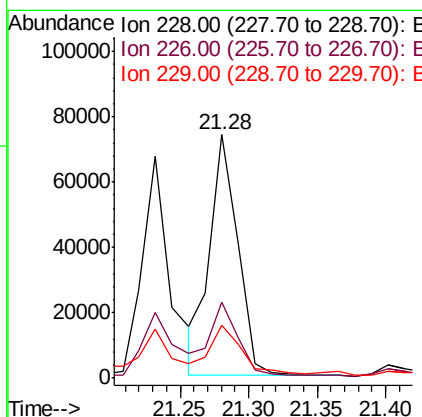
Manual Integrations
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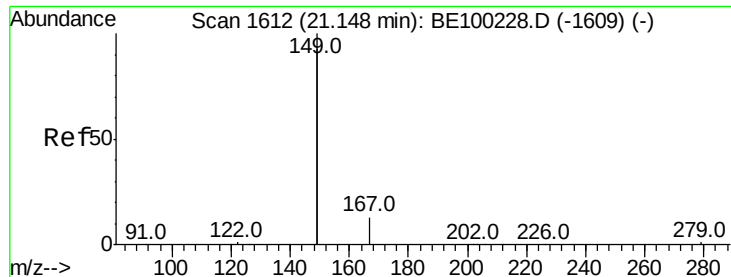
mohammad
7/3/2019 10:49:34 PM



#31
Chrysene
Concen: 3.346 ng
RT: 21.28 min Scan# 1622
Delta R.T. -0.00 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.9	35.9
229	21.7	16.5	24.7





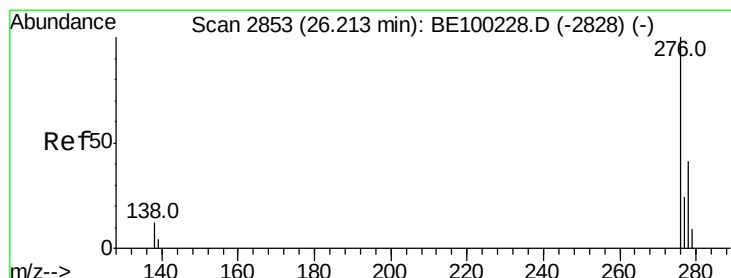
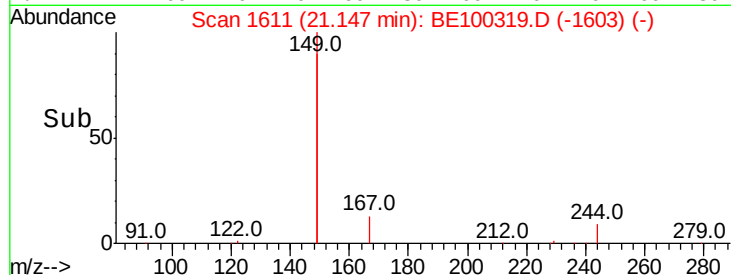
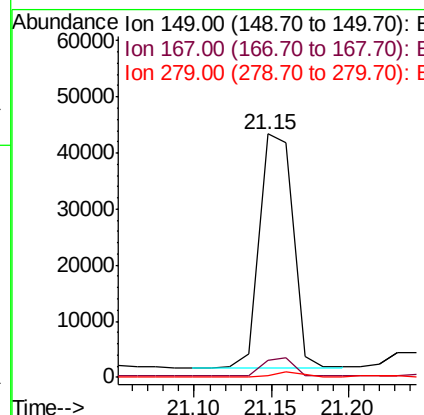
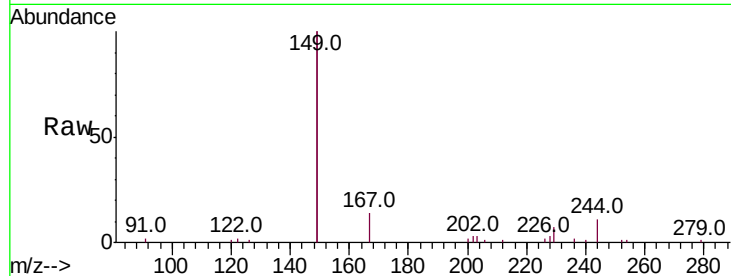
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 1.388 ng
 RT: 21.15 min Scan# 1611
 Delta R.T. 0.00 min
 Lab File: BE100319.D
 Acq: 3 Jul 2019 1:16

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW136-062019DL

Tot Ion	Ratio	Lower	Upper
149	100		
167	7.5	5.8	8.8
279	1.5	1.1	1.7

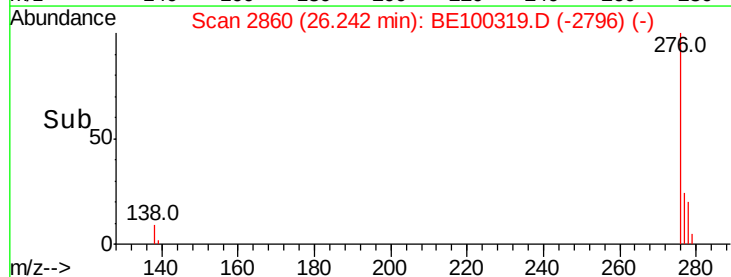
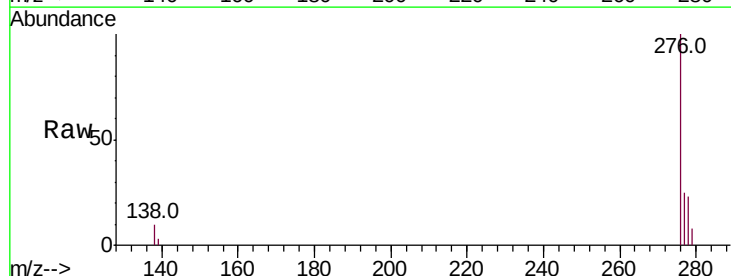
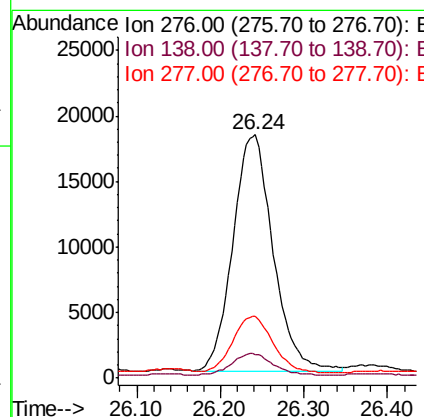
Manual Integrations
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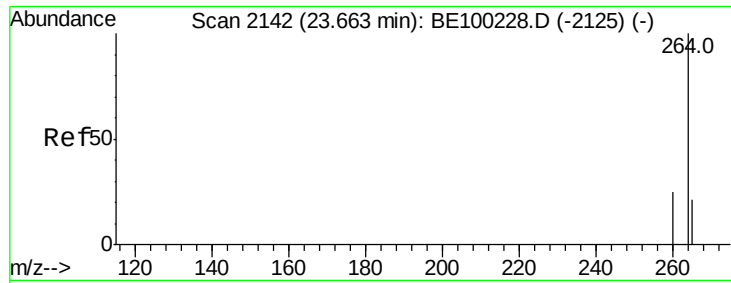
mohammad
 7/3/2019 10:49:34 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.459 ng
 RT: 26.24 min Scan# 2860
 Delta R.T. 0.03 min
 Lab File: BE100319.D
 Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	8.9	9.4	14.0#
277	23.6	19.2	28.8





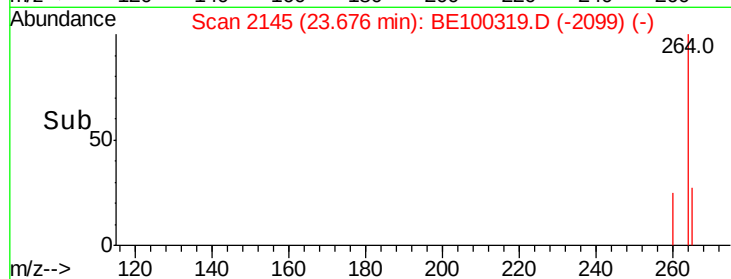
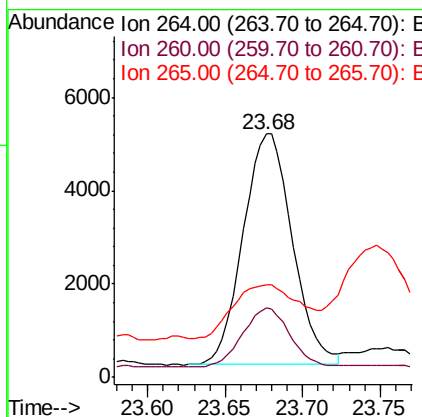
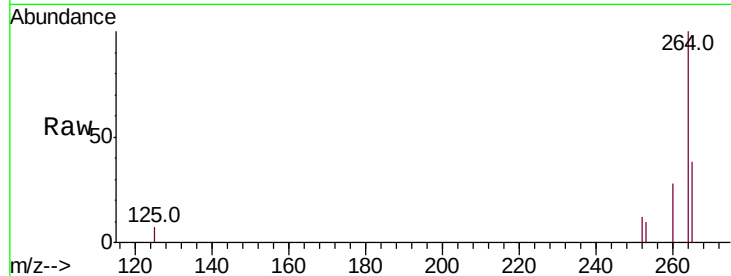
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.68 min Scan# 2145
 Delta R.T. 0.01 min
 Lab File: BE100319.D
 Acq: 3 Jul 2019 1:16

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW136-062019DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	28.3	20.8	31.2
265	38.2	21.8	32.6

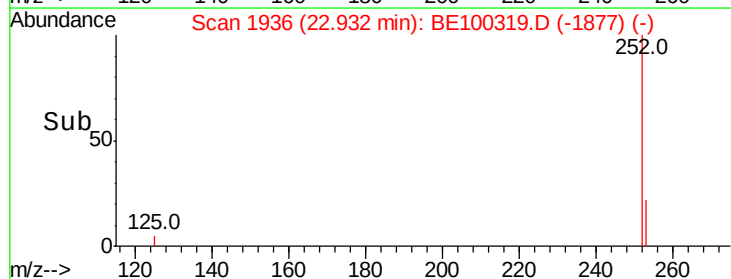
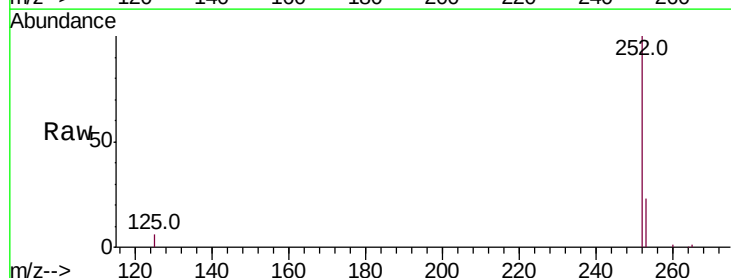
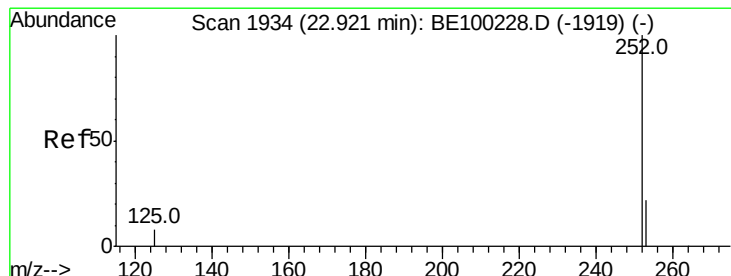
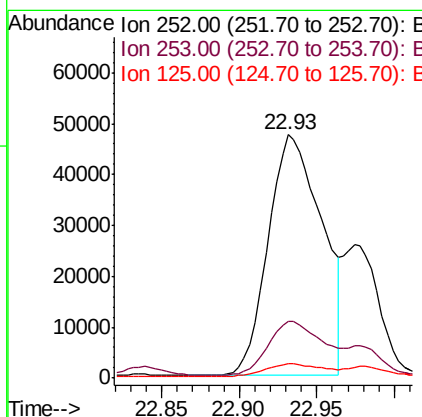
Manual Integrations
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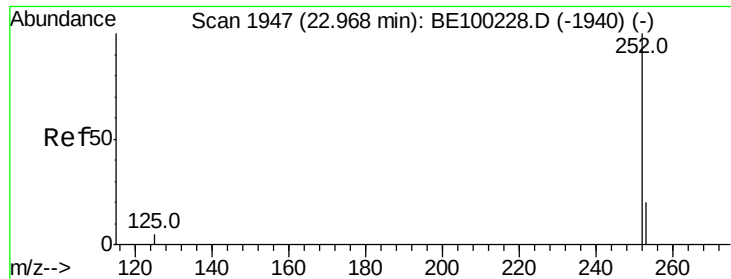
mohammad
 7/3/2019 10:49:34 PM



#35
 Benzo(b)fluoranthene
 Concen: 3.847 ng
 RT: 22.93 min Scan# 1936
 Delta R.T. 0.01 min
 Lab File: BE100319.D
 Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.2	28.8
125	5.8	7.4	11.0





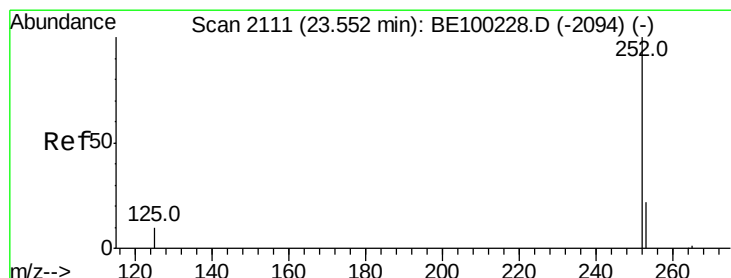
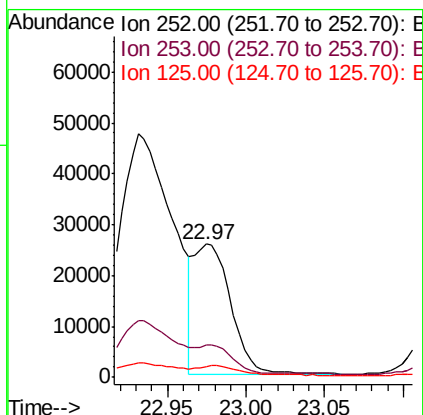
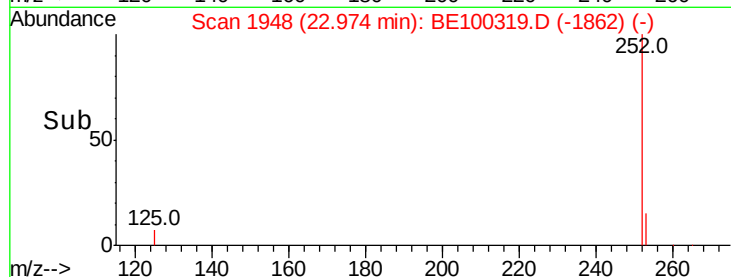
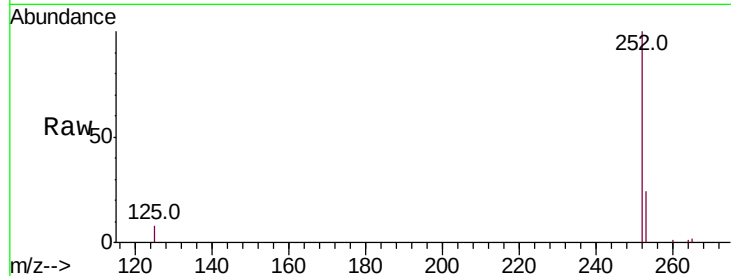
#36
Benzo(k)fluoranthene
Concen: 1.270 ng m
RT: 22.97 min Scan# 1948
Delta R.T. 0.01 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW136-062019DL

Tot Ion:252 Resp: 41893
Ion Ratio Lower Upper
252 100
253 24.3 17.9 26.9
125 8.3 5.0 7.4#

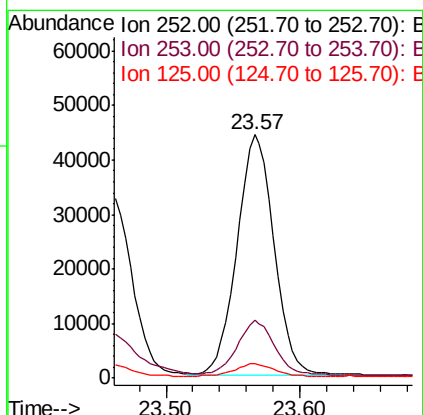
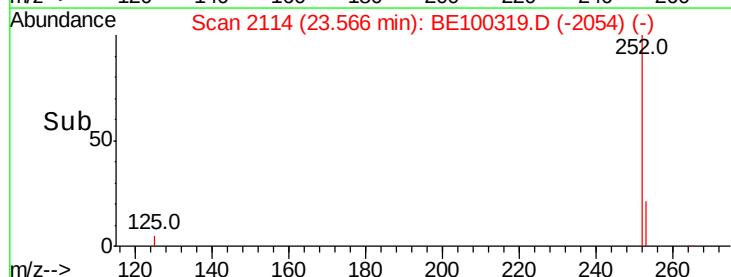
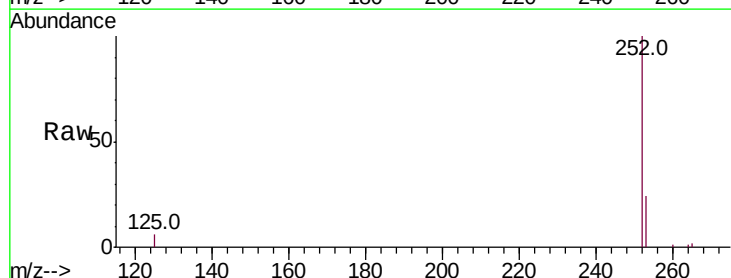
Manual Integrations
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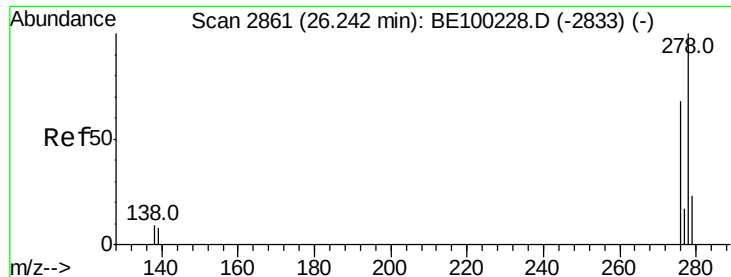
mohammad
7/3/2019 10:49:34 PM



#37
Benzo(a)pyrene
Concen: 2.866 ng m
RT: 23.57 min Scan# 2114
Delta R.T. 0.01 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion:252 Resp: 84918
Ion Ratio Lower Upper
252 100
253 23.6 19.6 29.4
125 5.8 9.0 13.6#





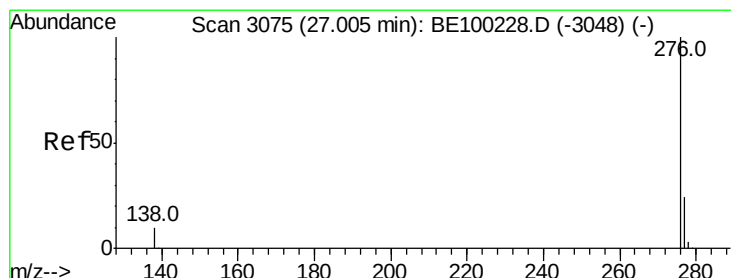
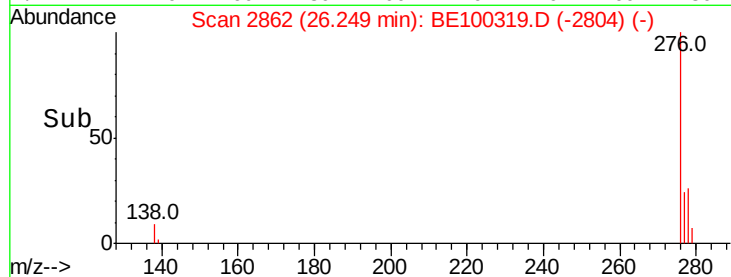
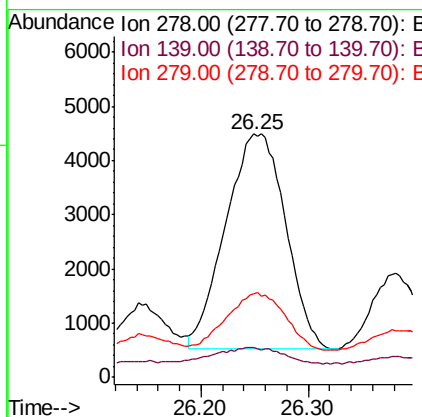
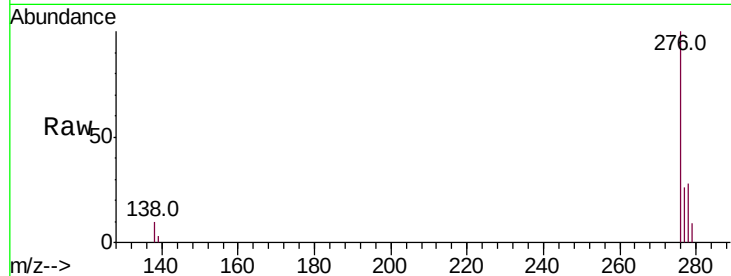
#38
Dibenzo(a,h)anthracene
Concen: 0.496 ng
RT: 26.25 min Scan# 2862
Delta R.T. 0.01 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW136-062019DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	12.2	8.2	12.2
279	34.1	20.3	30.5

Manual Integrations
APPROVED

mohammad
7/3/2019 10:49:34 PM



#39
Benzo(g,h,i)perylene
Concen: 2.001 ng
RT: 27.04 min Scan# 3083
Delta R.T. 0.03 min
Lab File: BE100319.D
Acq: 3 Jul 2019 1:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	20.2	30.2
138	10.2	9.0	13.6

