

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\
 Data File : BE100152.D
 Acq On : 22 Jun 2019 2:49
 Operator : JU/SJ
 Sample : K3428-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW163-061319

Manual Integrations
 APPROVED

mohammad
 6/25/2019 3:21:45 PM

Quant Time: Jun 22 03:35:02 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061919.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 19 15:07:24 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	824	0.40	ng	0.00
7) Naphthalene-d8	10.52	136	3178	0.40	ng	-0.01
13) Acenaphthene-d10	14.40	164	2730	0.40	ng	-0.01
19) Phenanthrene-d10	17.15	188	7809	0.40	ng	-0.01
27) Chrysene-d12	21.34	240	10527	0.40	ng	0.00
34) Perylene-d12	23.84	264	12396	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.29	112	646	0.38	ng	0.00
5) Phenol-d6	6.90	99	1001	0.43	ng	-0.03
8) Nitrobenzene-d5	8.90	82	1068	0.35	ng	-0.01
11) 2-Methylnaphthalene-d10	12.14	152	186	0.03	ng	-0.01
14) 2,4,6-Tribromophenol	15.90	330	627	0.42	ng	-0.01
15) 2-Fluorobiphenyl	13.02	172	3013	0.28	ng	-0.03
25) Fluoranthene-d10	19.19	212	1990	0.02	ng	0.00
29) Terphenyl-d14	19.79	244	5951	0.28	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.57	128	11540	0.334	ng	99
12) 2-Methylnaphthalene	12.21	142	1940	0.342	ng	96
16) Acenaphthylene	14.13	152	12000	0.926	ng	98
17) Acenaphthene	14.47	154	3209	0.443	ng	94
18) Fluorene	15.45	166	8413	0.780	ng	# 90
22) Pentachlorophenol	16.81	266	30	0.260	ng	98
23) Phenanthrene	17.19	178	168254	8.993	ng	99
24) Anthracene	17.28	178	29044	1.841	ng	# 95
26) Fluoranthene	19.22	202	356751	11.878	ng	98
28) Pvrene	19.58	202	358805	13.261	ng	# 96
30) Benzo(a)anthracene	21.33	228	236603	7.555	ng	98
31) Chrysene	21.38	228	205700	5.653	ng	97
32) Bis(2-ethylhexyl)phthalate	21.24	149	31046	1.051	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.48	276	124807	3.048	ng	# 98
35) Benzo(b)fluoranthene	23.07	252	246303	6.771	ng	# 97
36) Benzo(k)fluoranthene	23.12	252	88749m	2.145	ng	
37) Benzo(a)pvrene	23.73	252	178602m	5.087	ng	
38) Dibenzo(a,h)anthracene	26.50	278	32843	0.913	ng	92
39) Benzo(g,h,i)perylene	27.29	276	126951	3.394	ng	# 95

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

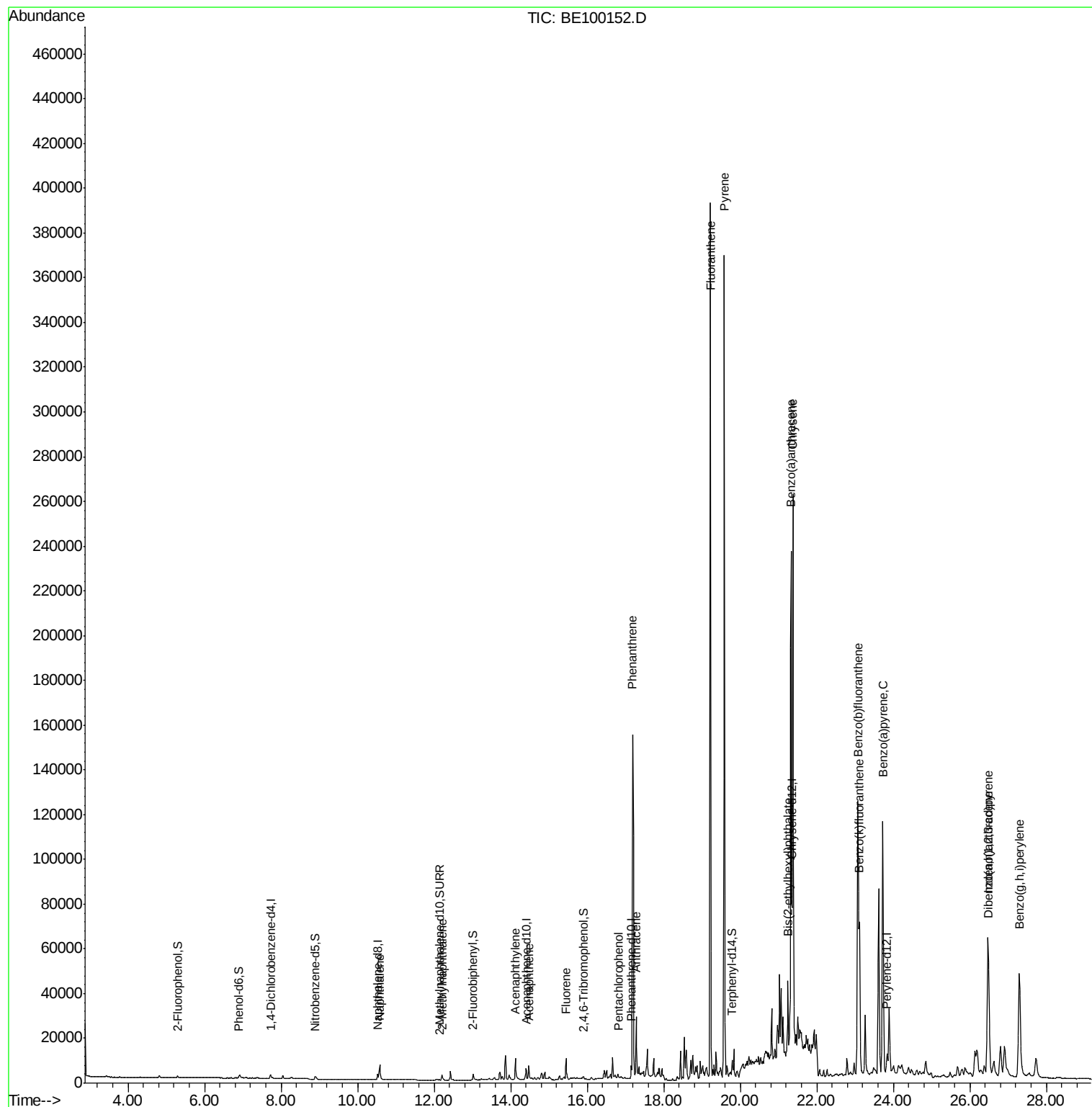
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\
Data File : BE100152.D
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ALS Vial : 13 Sample Multiplier: 1

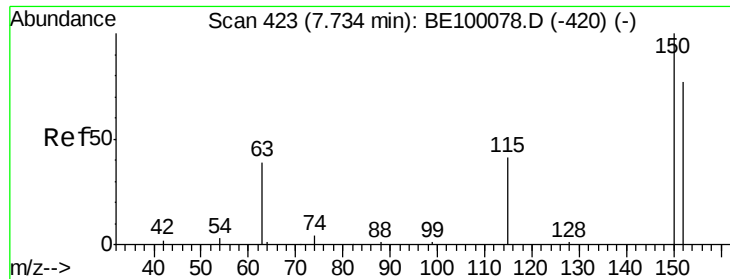
Instrument :
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EXT-013-SW163-061319

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Quant Time: Jun 22 03:35:02 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 19 15:07:24 2019
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#1

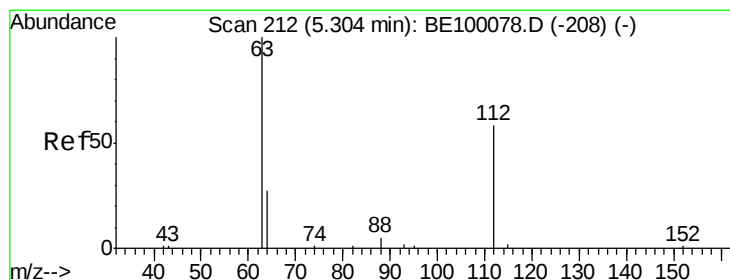
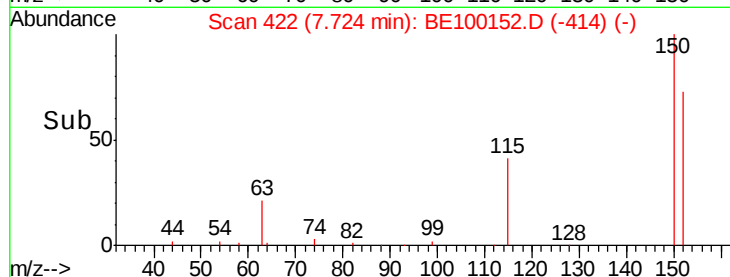
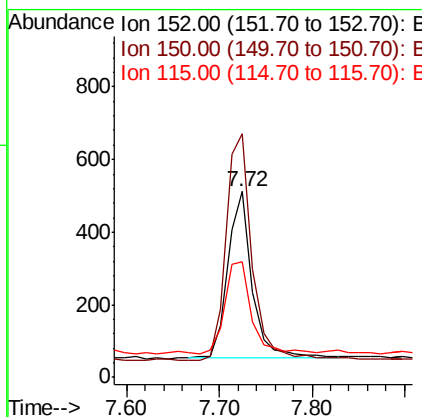
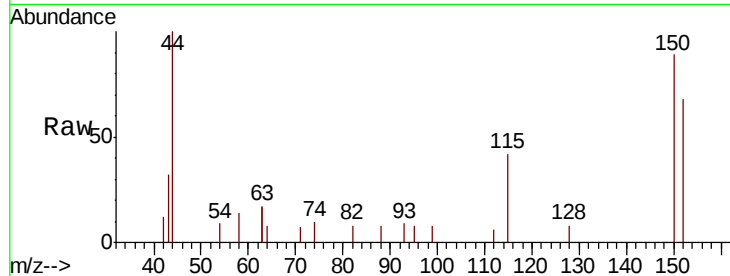
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.72 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
152	100		
150	131.3	99.8	149.8
115	62.0	51.3	76.9

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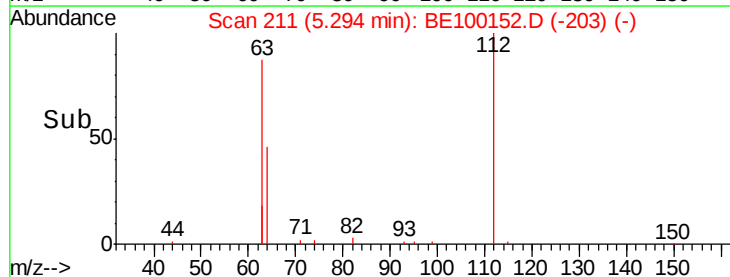
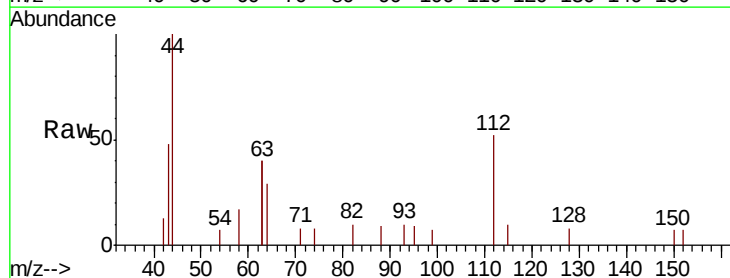
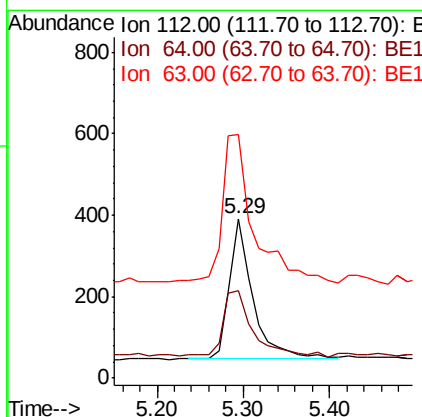
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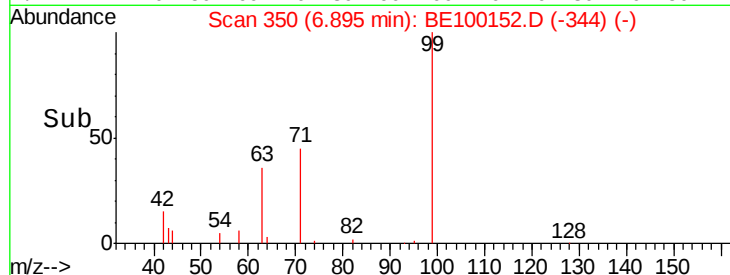
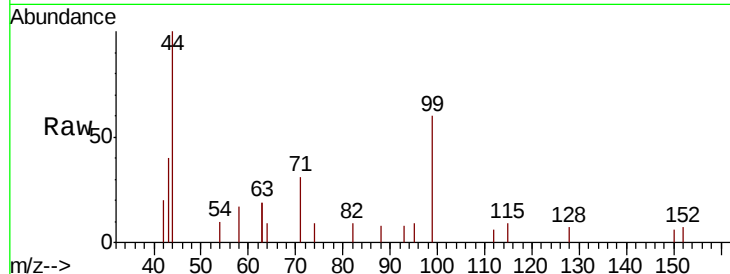
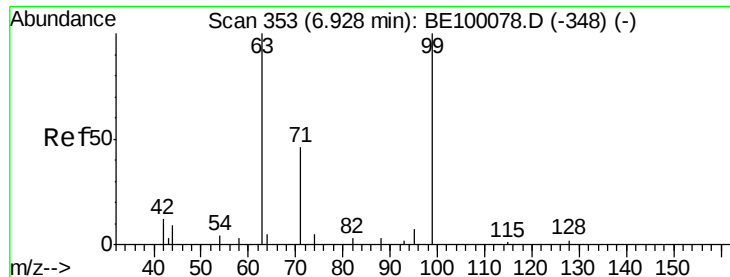


#4

2-Fluorophenol
Concen: 0.378 ng
RT: 5.29 min Scan# 211
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	22.0	33.0#
63	142.9	121.8	182.6





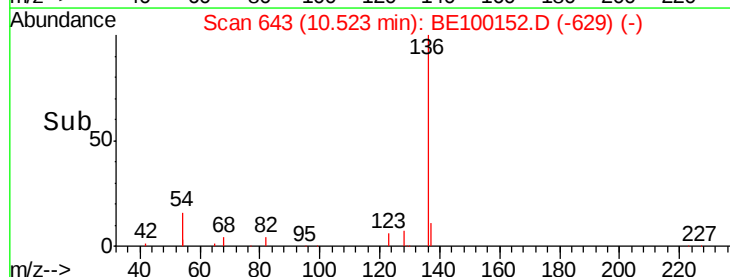
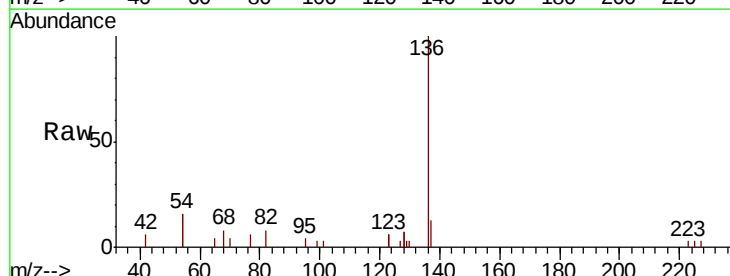
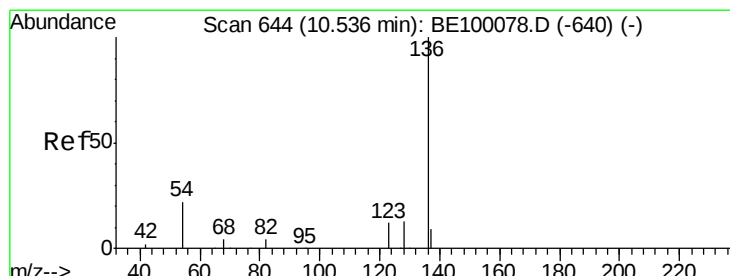
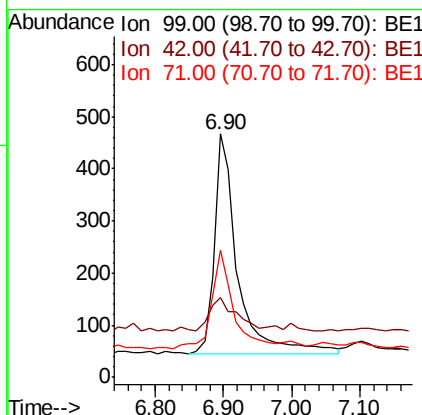
#5
 Phenol-d6
 Concen: 0.426 ng
 RT: 6.90 min Scan# 350
 Delta R.T. -0.03 min
 Lab File: BE100152.D
 Acq: 22 Jun 2019 2:49

Tot Ion	Ratio	Lower	Upper
99	100		
42	17.8	0.0	0.0#
71	36.7	37.6	56.4#

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW163-061319

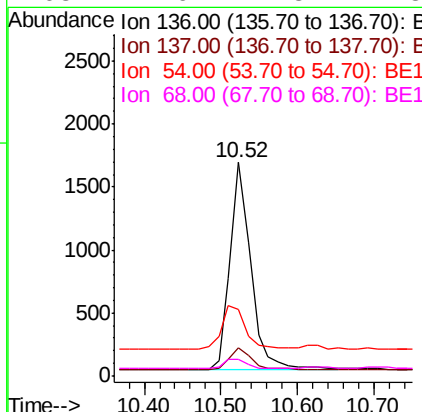
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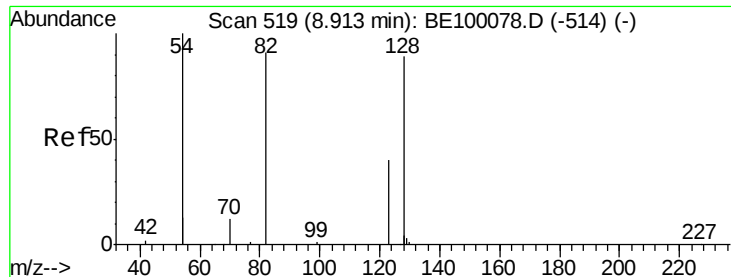
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#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.52 min Scan# 643
 Delta R.T. -0.01 min
 Lab File: BE100152.D
 Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
136	100		
137	13.3	11.6	17.4
54	31.4	33.9	50.9#
68	7.6	7.8	11.8#





#8

Nitrobenzene-d5

Concen: 0.346 ng

RT: 8.90 min Scan# 518

Delta R.T. -0.01 min

Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Instrument :

BNA_E

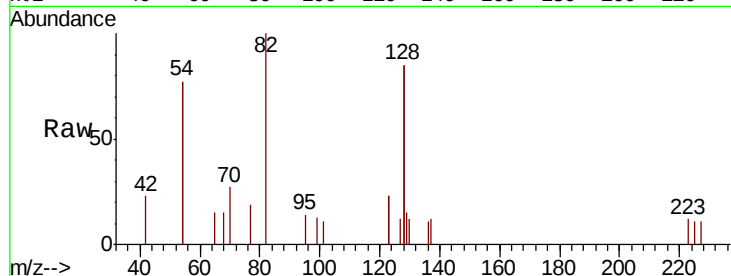
ClientSampleId :

EXT-013-SW163-061319

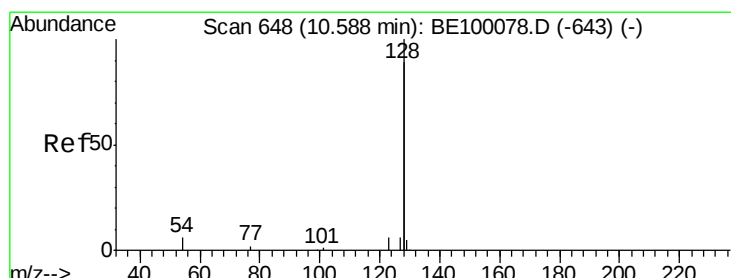
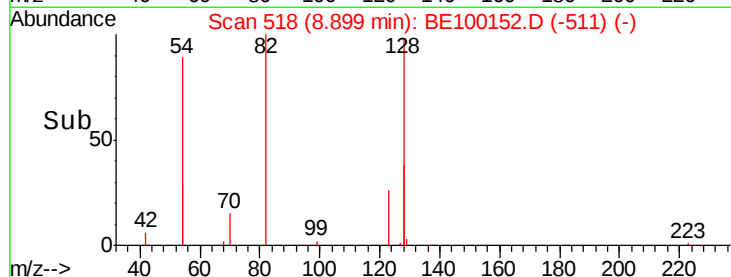
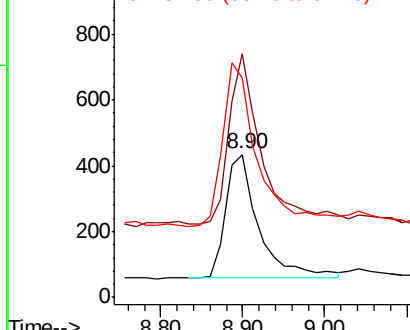
Tot Ion:	82	Resp:	1068
Ion	Ratio	Lower	Upper
82	100		
128	170.5	128.0	192.0
54	153.9	143.4	215.0

Manual Integrations
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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: 0.334 ng

RT: 10.57 min Scan# 647

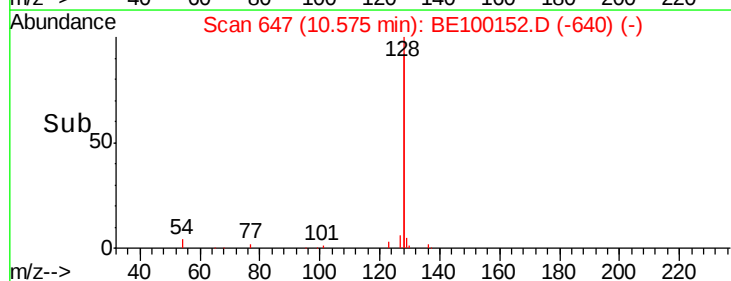
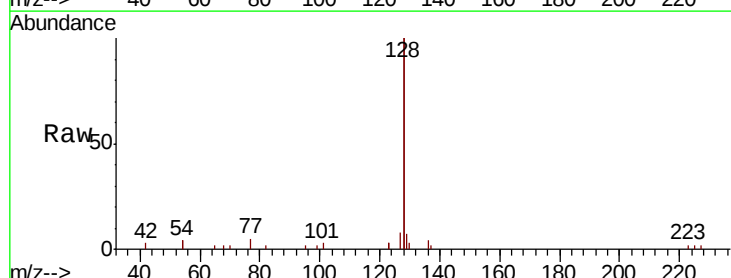
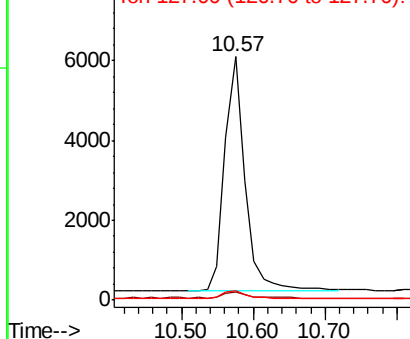
Delta R.T. -0.01 min

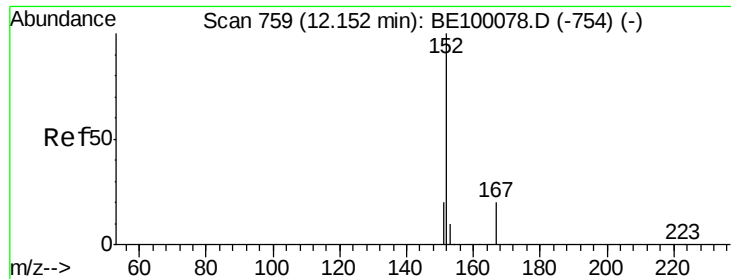
Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Tgt Ion:	128	Resp:	11540
Ion	Ratio	Lower	Upper
128	100		
129	3.6	3.1	4.7
127	3.9	3.4	5.2

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





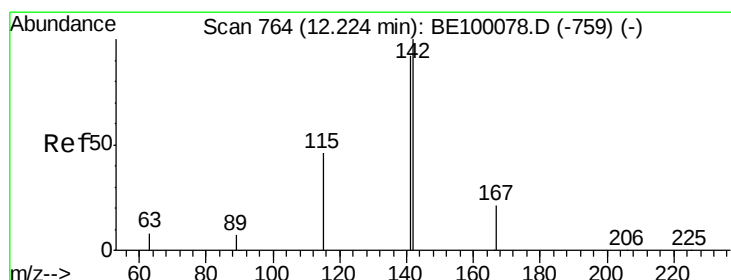
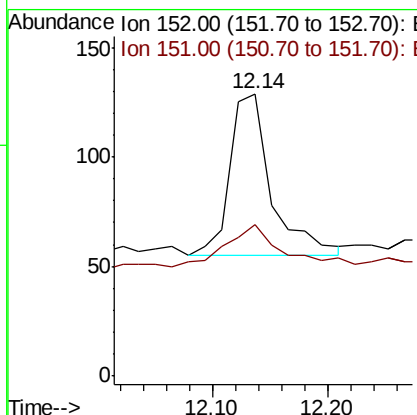
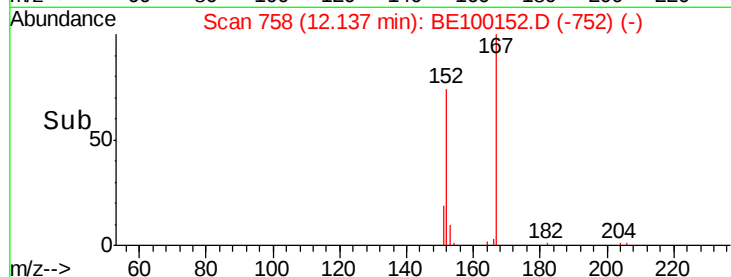
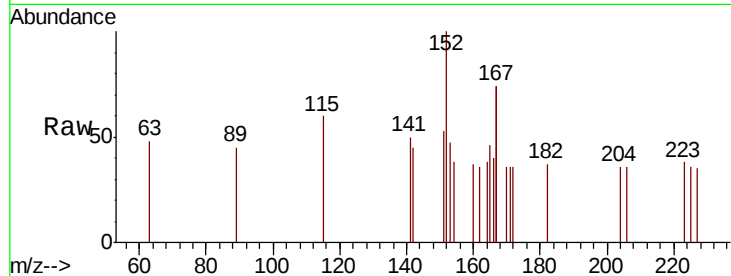
#11
2-Methylnaphthalene-d10
Concen: 0.031 ng
RT: 12.14 min Scan# 758
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion:152 Resp: 186
Ion Ratio Lower Upper
152 100
151 34.4 16.3 24.5#

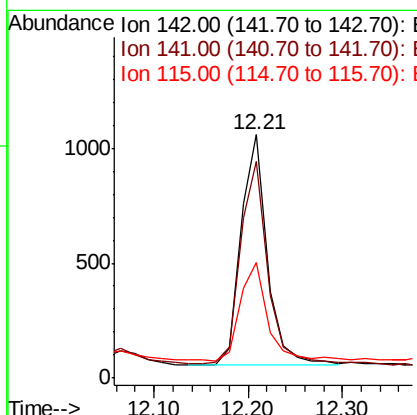
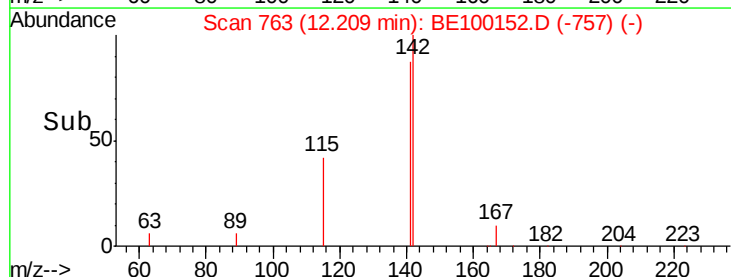
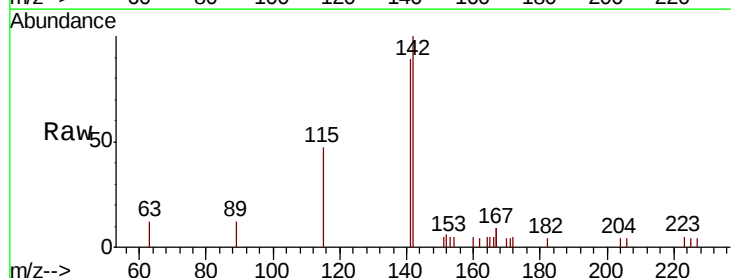
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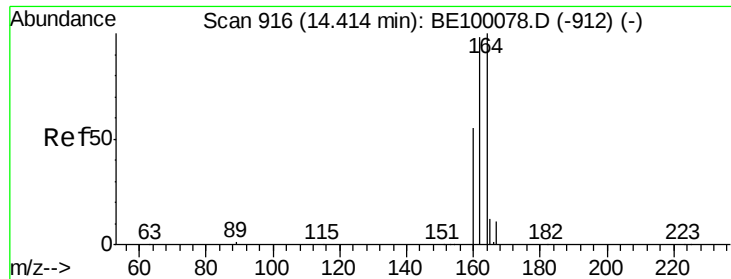
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#12
2-Methylnaphthalene
Concen: 0.342 ng
RT: 12.21 min Scan# 763
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion:142 Resp: 1940
Ion Ratio Lower Upper
142 100
141 89.1 74.1 111.1
115 47.4 40.9 61.3





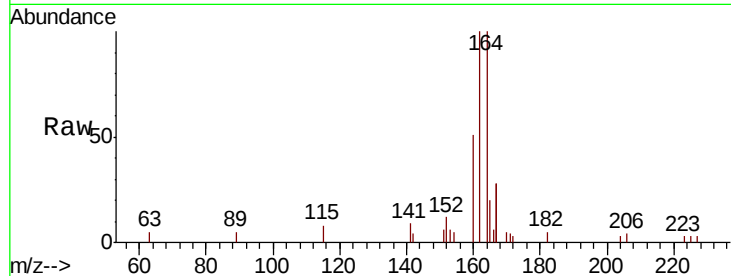
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.40 min Scan# 915
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.3	78.2	117.2
160	51.1	45.6	68.4

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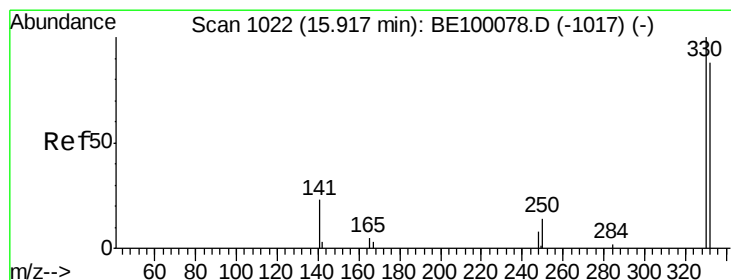
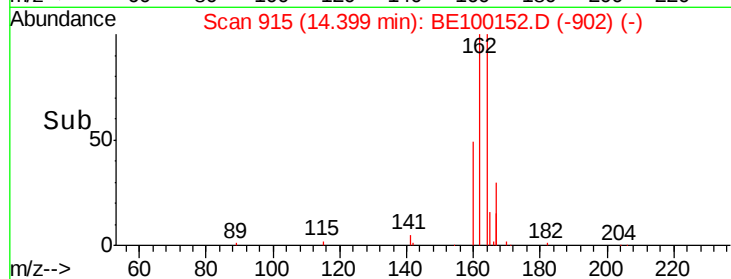
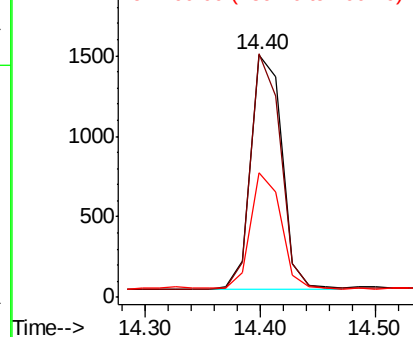


Abundance

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: 0.416 ng
RT: 15.90 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

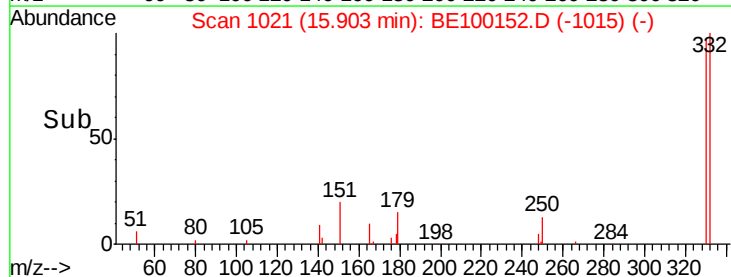
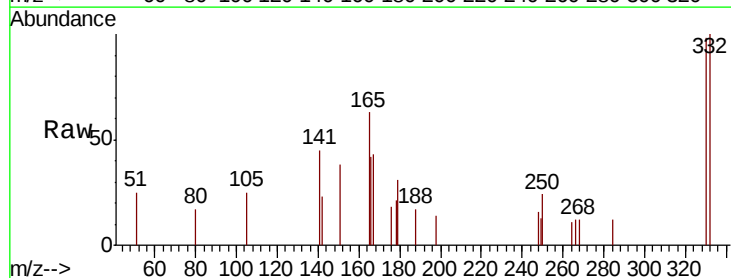
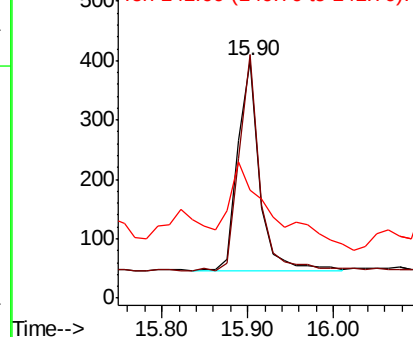
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	73.3	109.9
141	83.7	22.2	33.2#

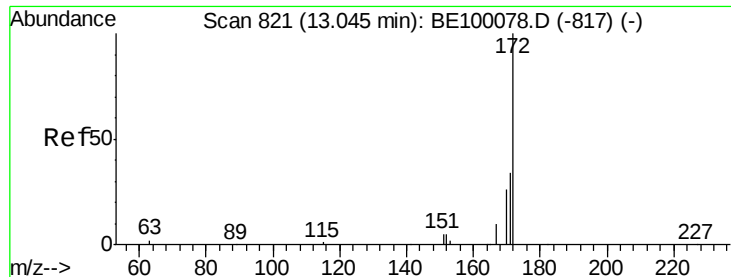
Abundance

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





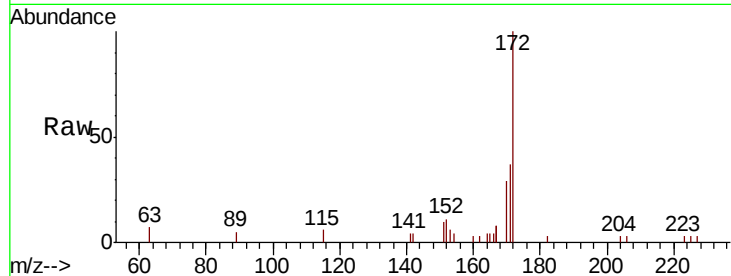
#15
2-Fluorobiphenyl
Concen: 0.281 ng
RT: 13.02 min Scan# 819
Delta R.T. -0.03 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.8	44.8
170	28.7	23.2	34.8

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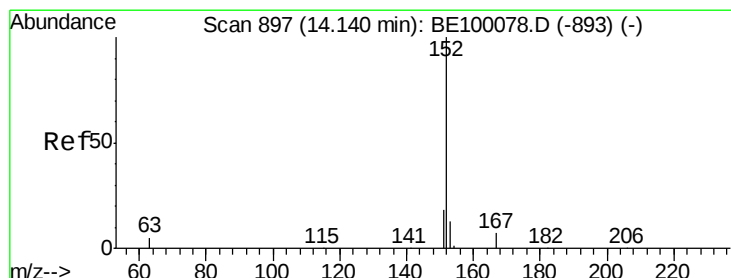
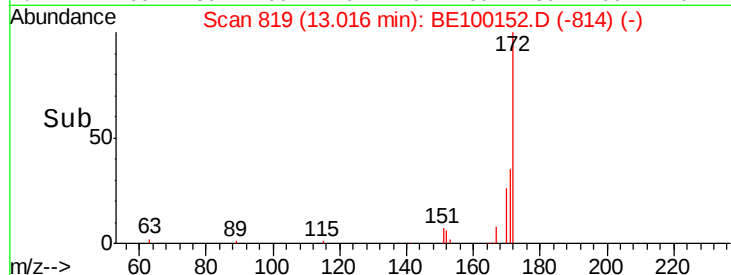
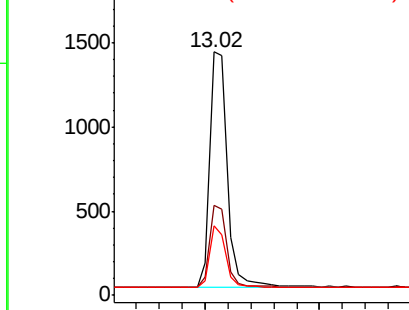


Abundance

Ion 172.00 (171.70 to 172.70): E

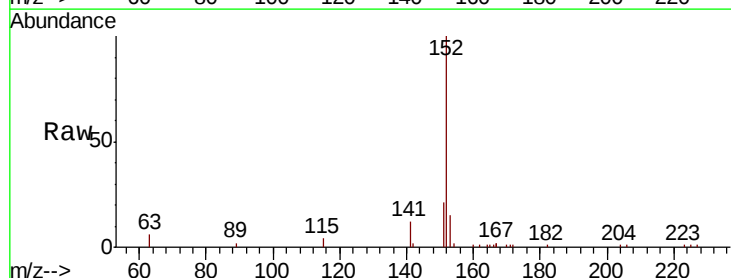
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.926 ng
RT: 14.13 min Scan# 896
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.9	23.9
153	13.9	10.1	15.1

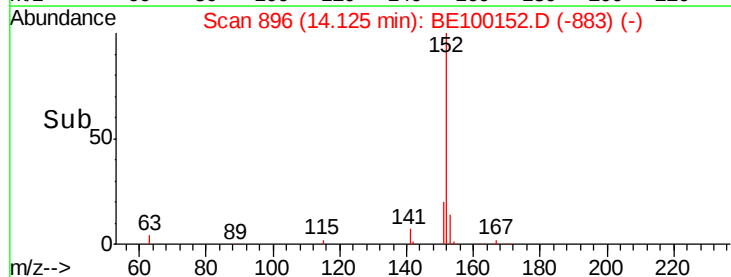
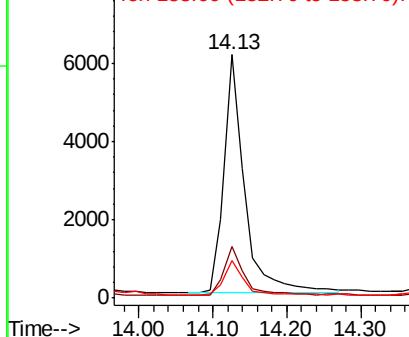


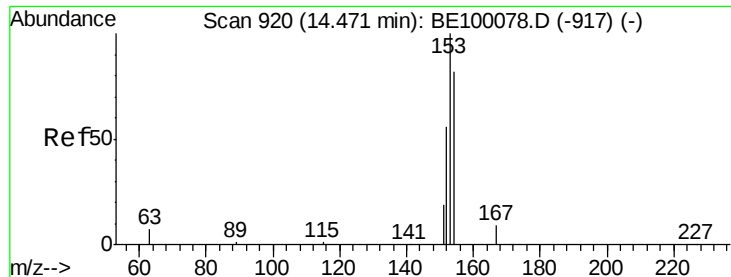
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





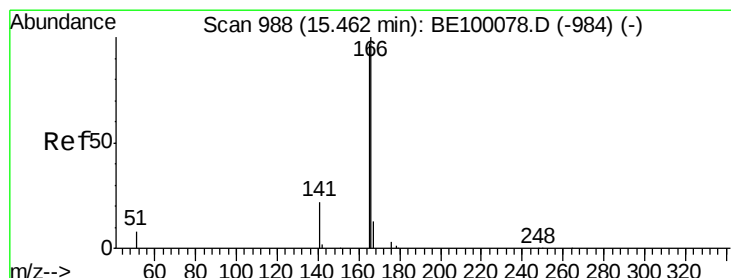
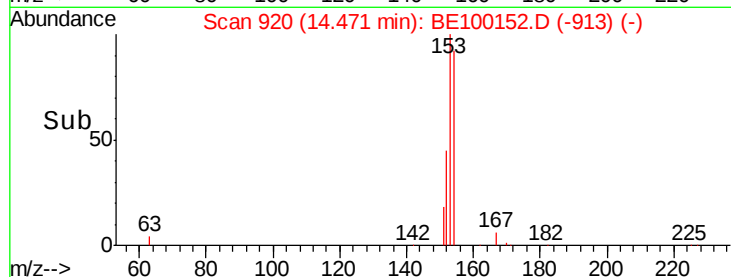
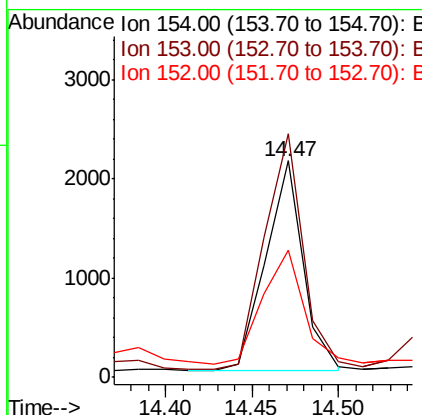
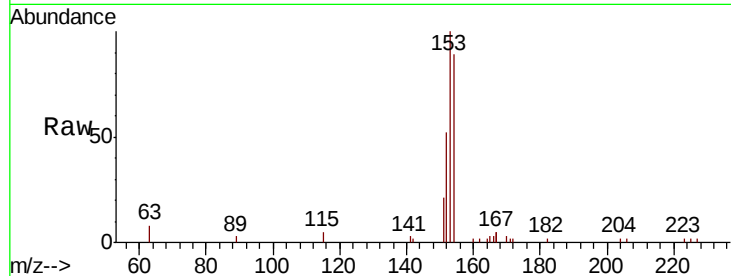
#17
Acenaphthene
Concen: 0.443 ng
RT: 14.47 min Scan# 920
Delta R.T. -0.00 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.0	95.5	143.3
152	59.4	54.9	82.3

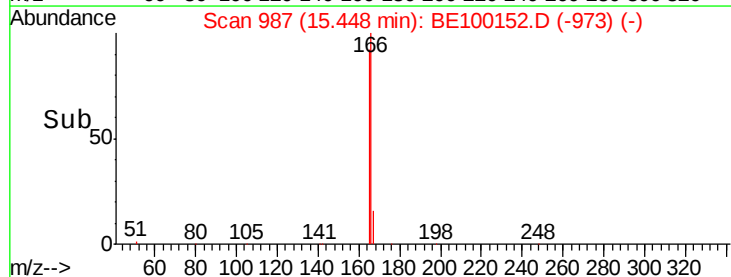
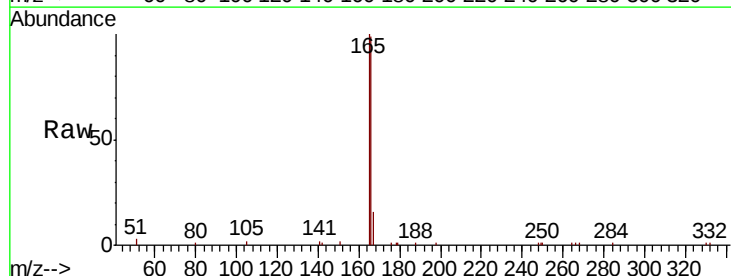
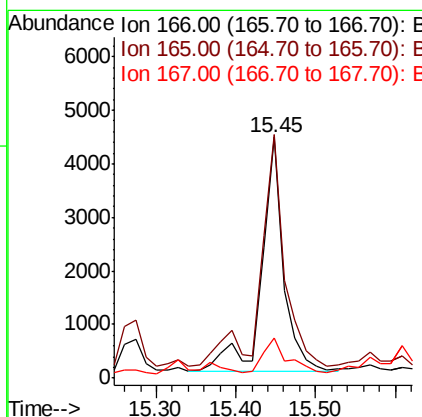
Manual Integrations
APPROVED

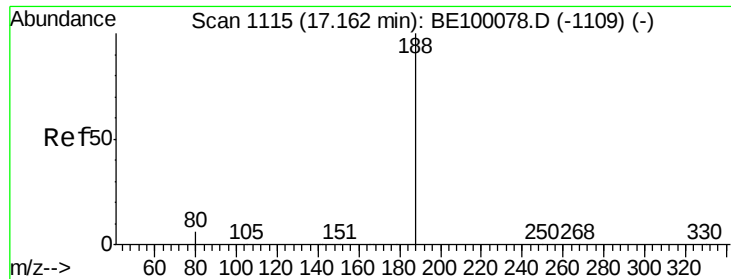
mohammad
6/25/2019 3:21:45 PM



#18
Fluorene
Concen: 0.780 ng
RT: 15.45 min Scan# 987
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
166	100		
165	109.6	79.8	119.8
167	16.5	10.2	15.4#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.15 min Scan# 1114

Delta R.T. -0.01 min

Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Instrument :

BNA_E

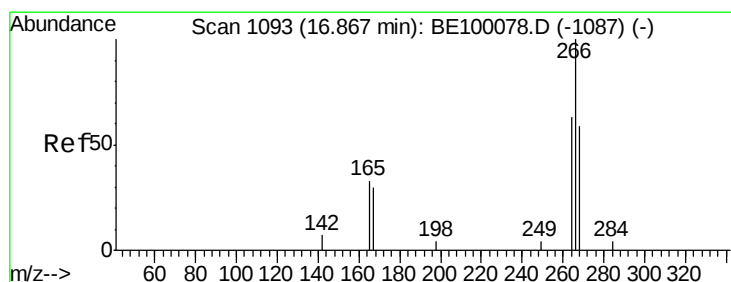
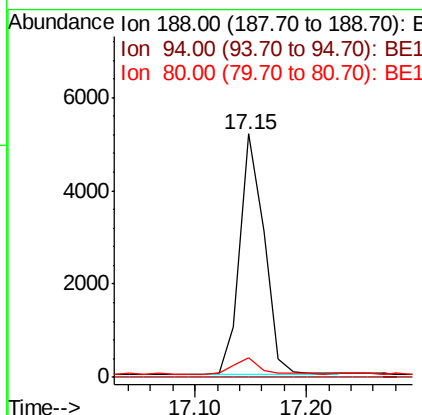
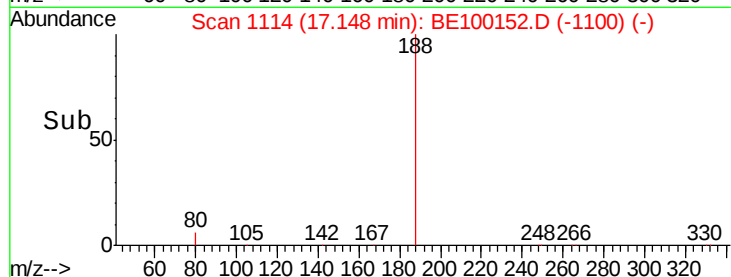
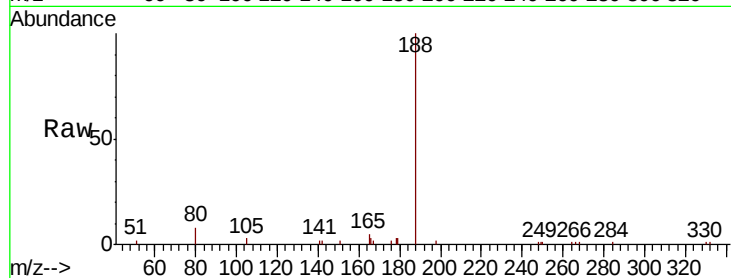
ClientSampleId :

EXT-013-SW163-061319

Tot Ion:	188	Resp:	7809
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.0	6.3	9.5

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#22

Pentachlorophenol

Concen: 0.260 ng

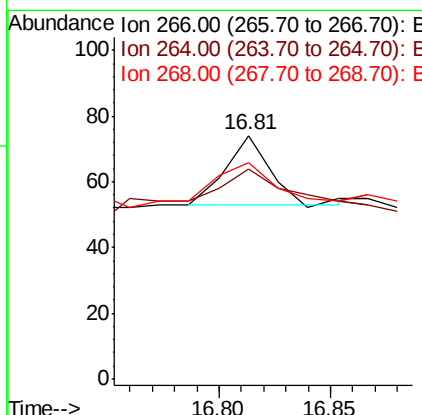
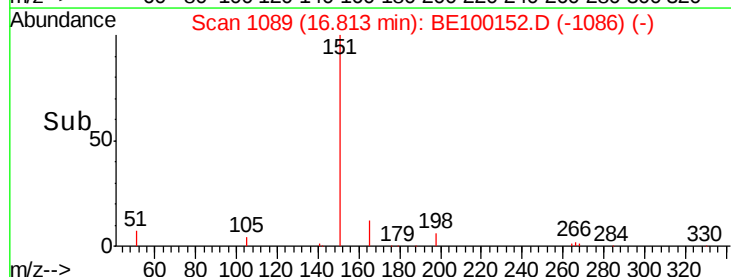
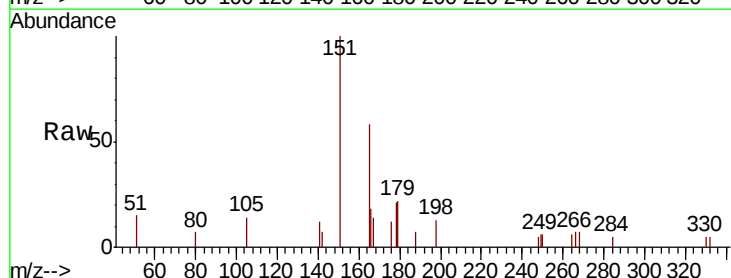
RT: 16.81 min Scan# 1089

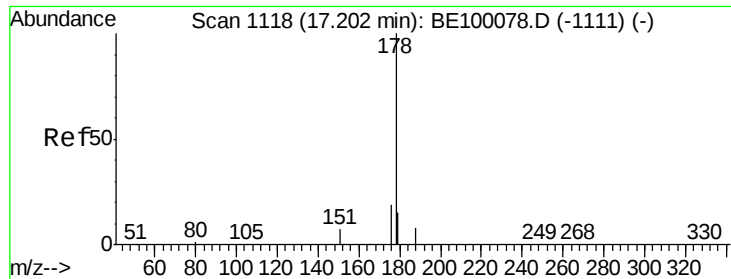
Delta R.T. -0.05 min

Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Tgt Ion:	266	Resp:	30
Ion Ratio	Lower	Upper	
266	100		
264	86.5	67.8	101.6
268	89.2	70.0	105.0





#23

Phenanthrene

Concen: 8.993 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Instrument :

BNA_E

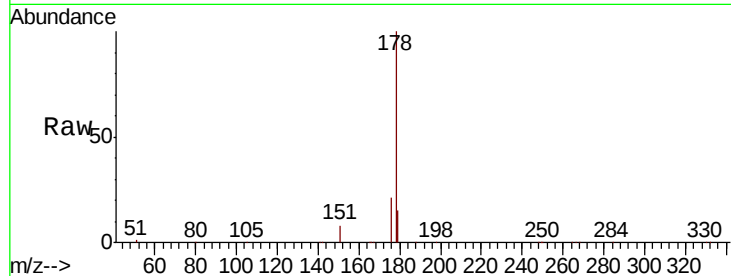
ClientSampleId :

EXT-013-SW163-061319

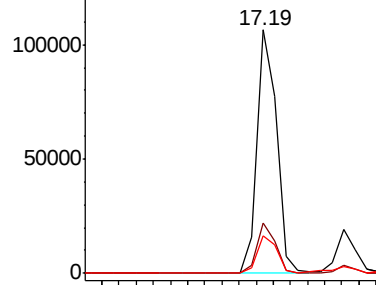
Tot Ion:178	Resp:	168254
Ion Ratio	Lower	Upper
178	100	
176	19.7	15.9 23.9
179	15.5	13.1 19.7

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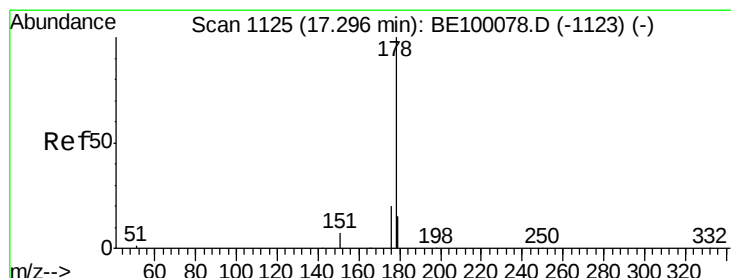
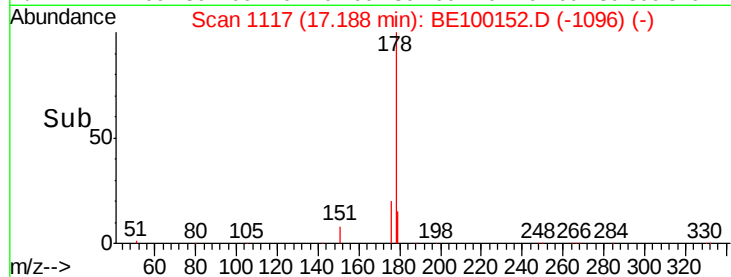
mohammad
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time-->



#24

Anthracene

Concen: 1.841 ng

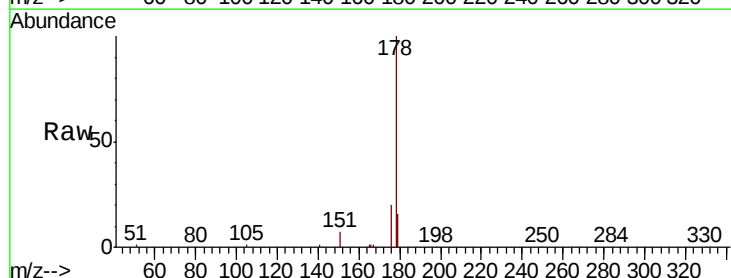
RT: 17.28 min Scan# 1124

Delta R.T. -0.01 min

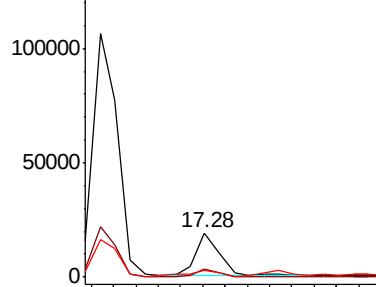
Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

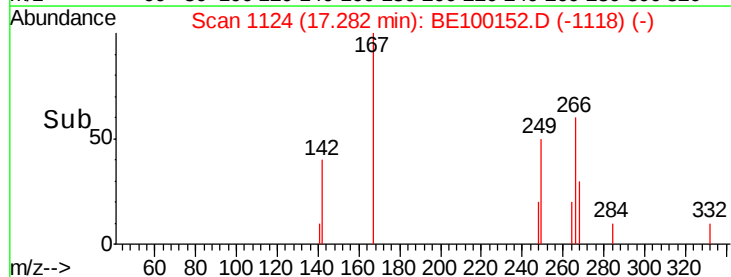
Tgt Ion:178	Resp:	29044
Ion Ratio	Lower	Upper
178	100	
176	18.6	15.8 23.6
179	18.1	12.0 18.0#

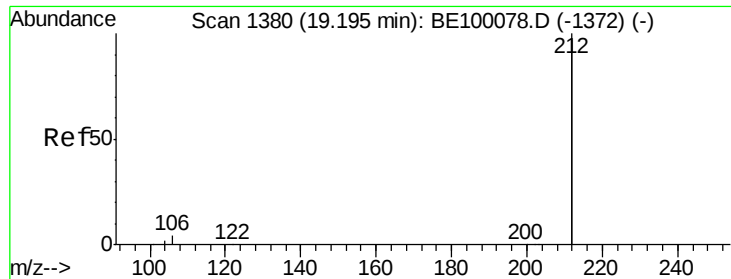


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time-->





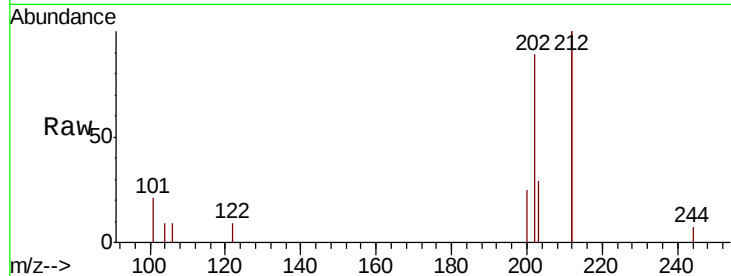
#25
Fluoranthene-d10
Concen: 0.018 ng
RT: 19.19 min Scan# 1379
Delta R.T. -0.00 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

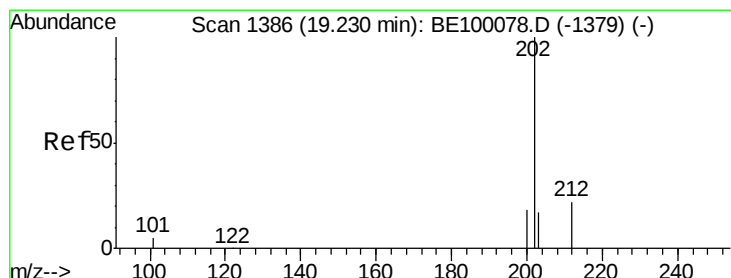
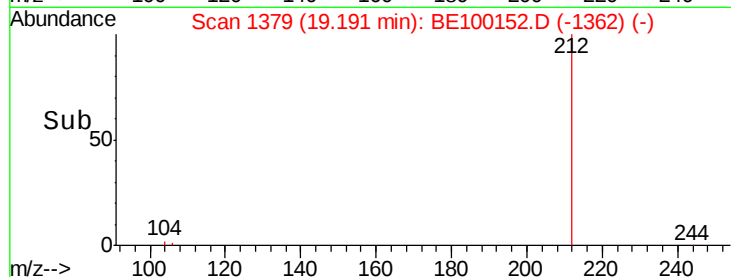
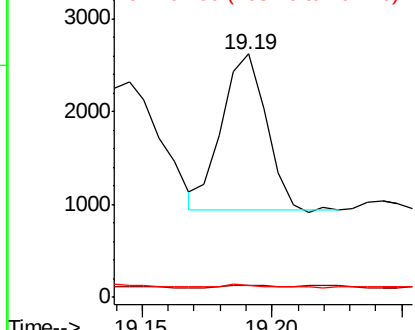
Tot Ion	Ratio	Resp	Lower	Upper
212	100	1990		
106	2.0		1.4	2.0
104	2.5		0.8	1.2#

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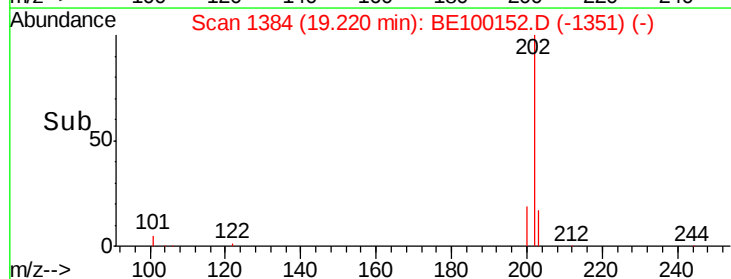
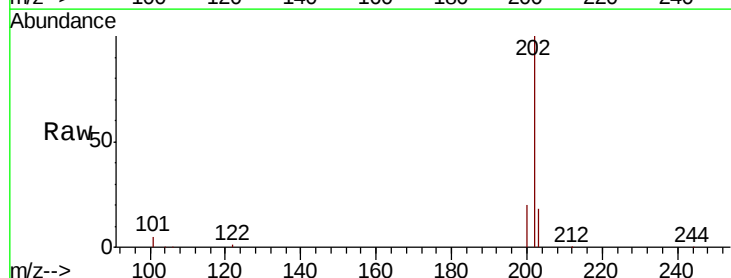
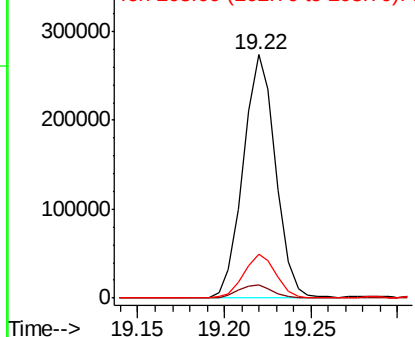
Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E

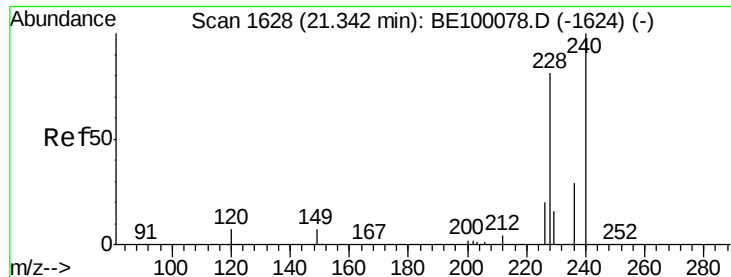


#26
Fluoranthene
Concen: 11.878 ng
RT: 19.22 min Scan# 1384
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	356751		
101	5.5		5.0	7.4
203	17.8		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





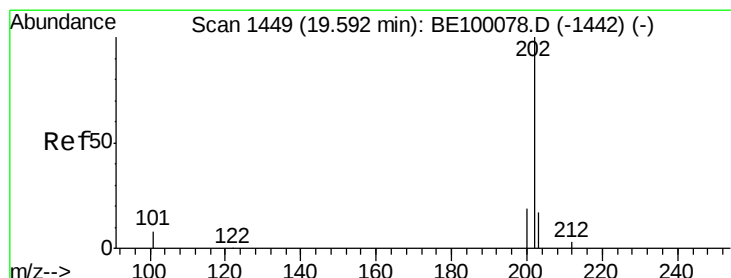
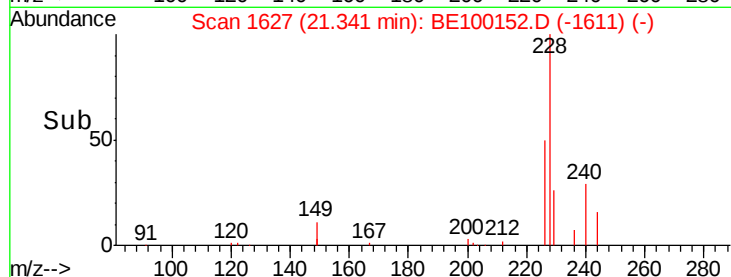
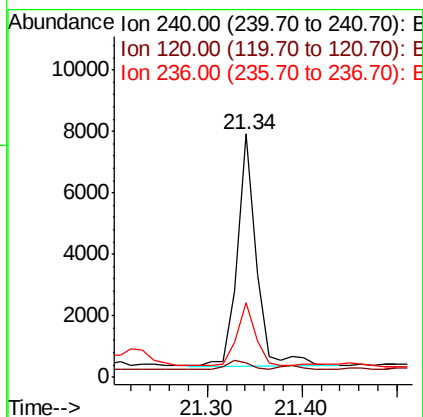
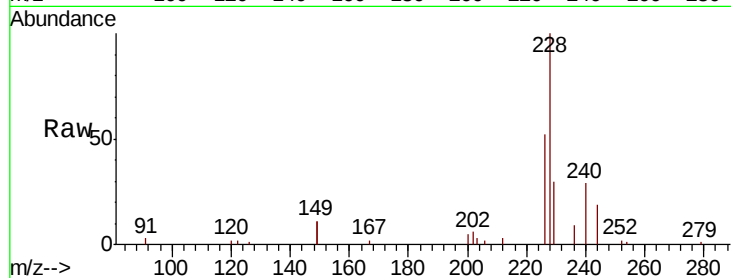
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.34 min Scan# 1627
Delta R.T. -0.00 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
240	100		
120	6.0	6.6	10.0#
236	30.9	23.8	35.6

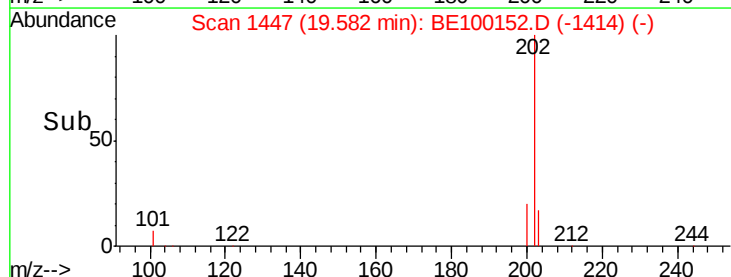
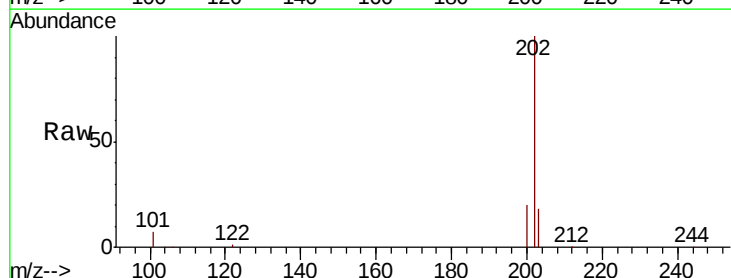
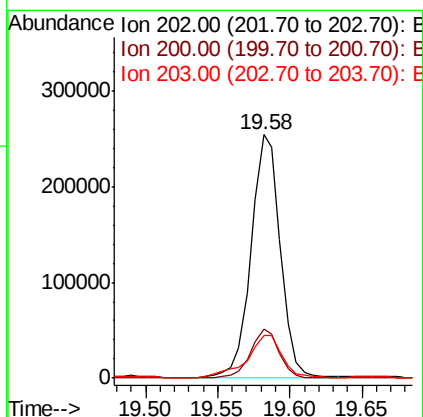
Manual Integrations
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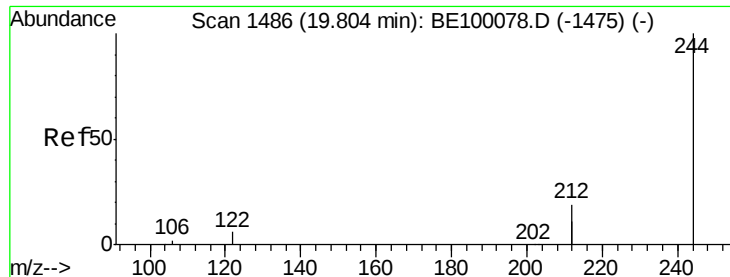
mohammad
6/25/2019 3:21:45 PM



#28
Pyrene
Concen: 13.261 ng
RT: 19.58 min Scan# 1447
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.7	15.6	23.4
203	20.9	13.9	20.9#





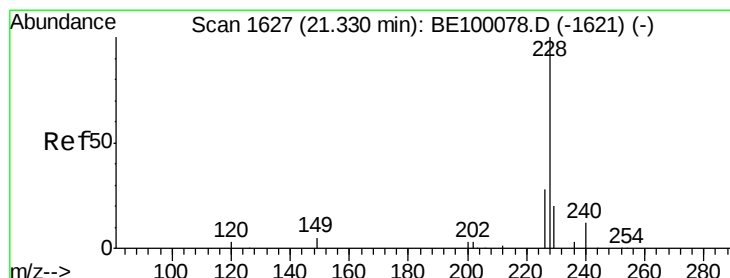
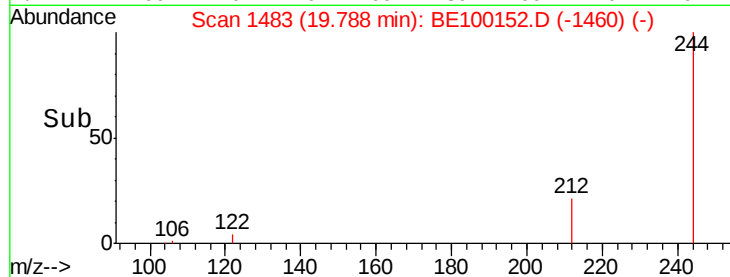
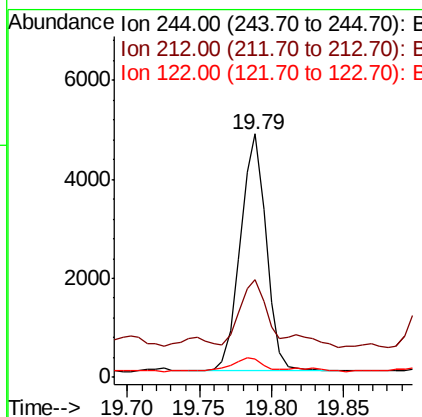
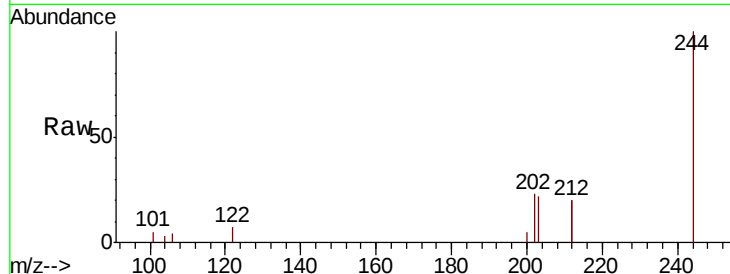
#29
 Terphenyl-d14
 Concen: 0.283 ng
 RT: 19.79 min Scan# 1483
 Delta R.T. -0.02 min
 Lab File: BE100152.D
 Acq: 22 Jun 2019 2:49

Instrument :
 BNA_E
 ClientSampleId :
 EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
244	100		
212	40.3	29.8	44.8
122	7.5	6.1	9.1

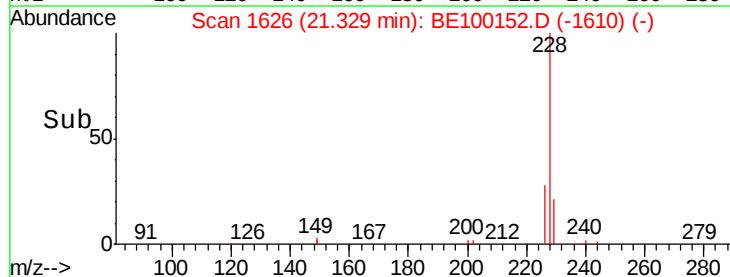
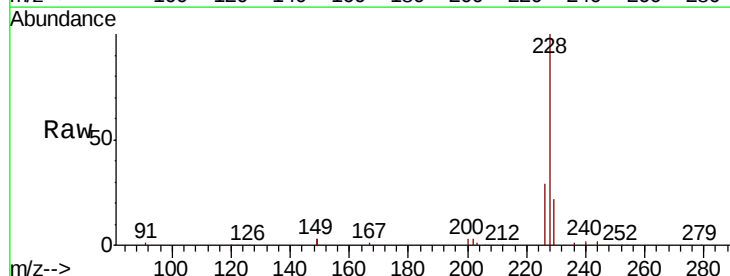
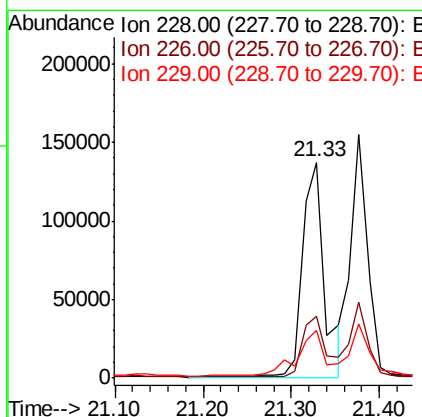
Manual Integrations
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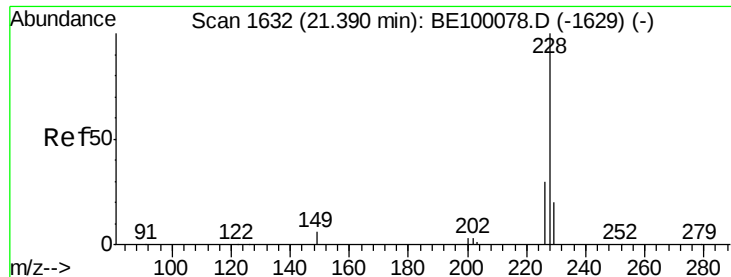
mohammad
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#30
 Benzo(a)anthracene
 Concen: 7.555 ng
 RT: 21.33 min Scan# 1626
 Delta R.T. -0.00 min
 Lab File: BE100152.D
 Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.0	34.4
229	22.4	16.4	24.6





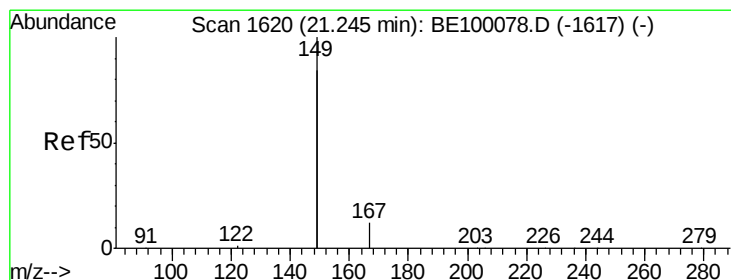
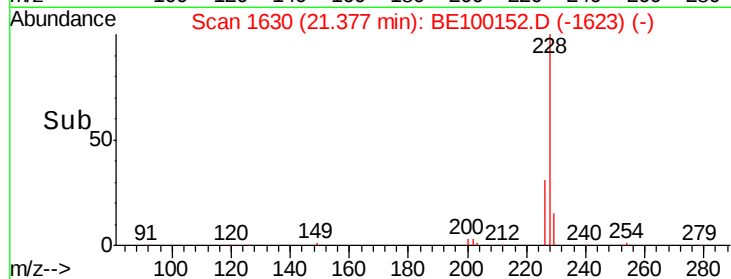
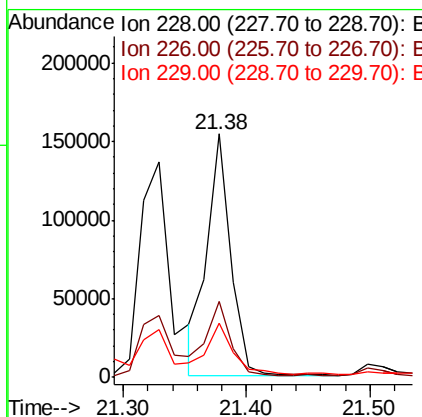
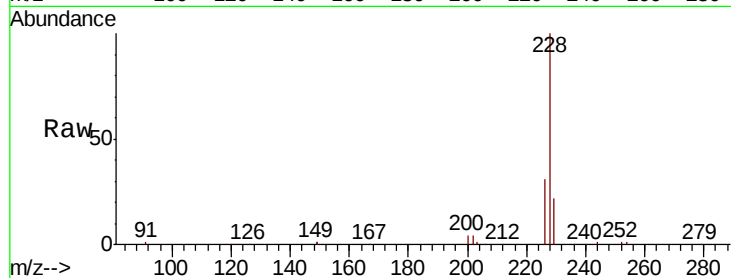
#31
Chrysene
Concen: 5.653 ng
RT: 21.38 min Scan# 1630
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.8	35.8
229	22.1	16.3	24.5

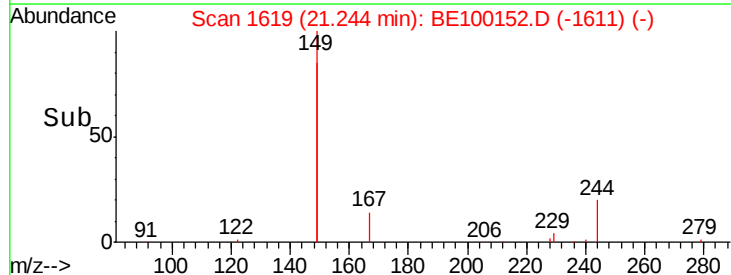
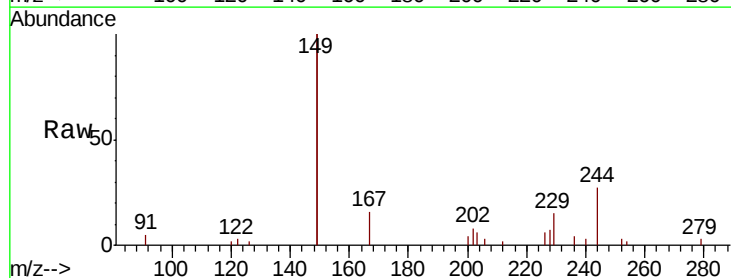
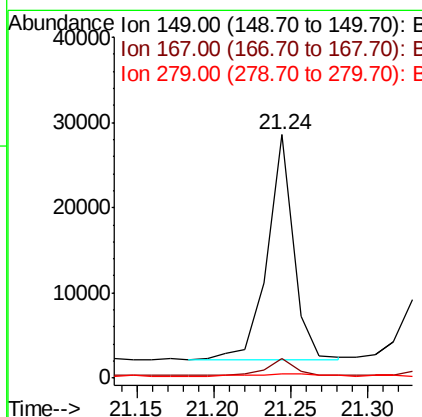
Manual Integrations
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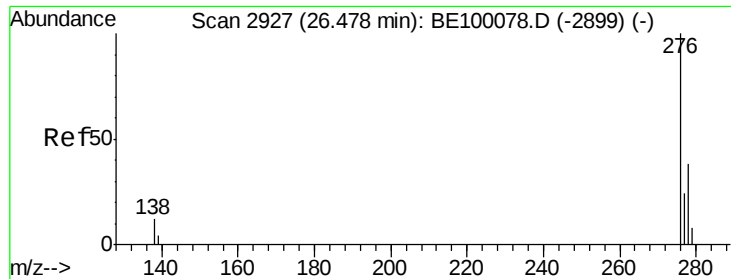
mohammad
6/25/2019 3:21:45 PM



#32
Bis(2-ethylhexyl)phthalate
Concen: 1.051 ng
RT: 21.24 min Scan# 1619
Delta R.T. -0.00 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
149	100		
167	7.5	5.8	8.6
279	1.7	1.1	1.7#





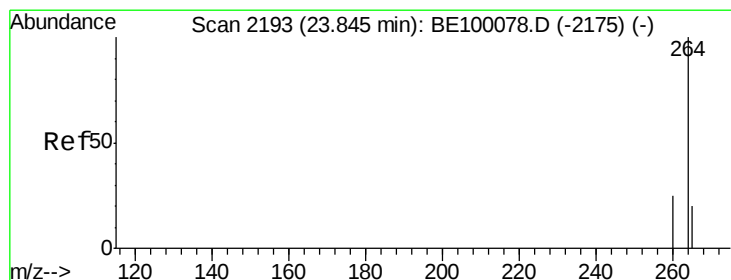
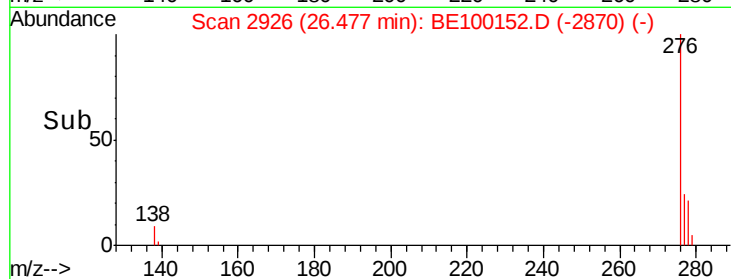
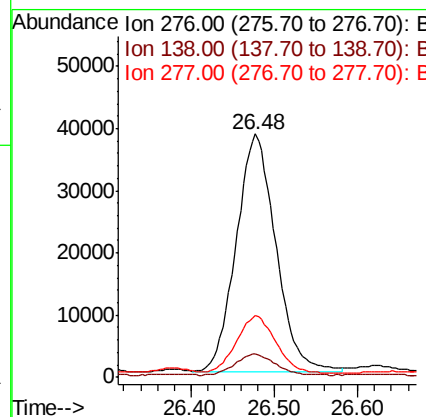
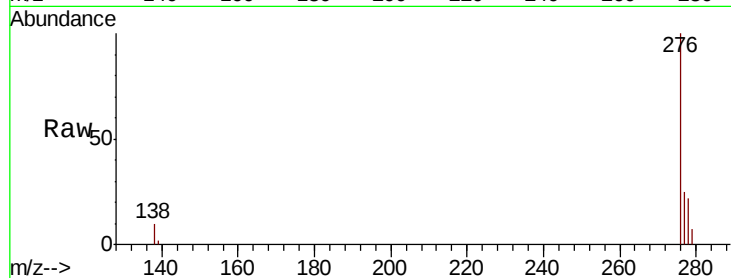
#33
Indeno(1,2,3-cd)pyrene
Concen: 3.048 ng
RT: 26.48 min Scan# 2926
Delta R.T. -0.00 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Resp	Lower	Upper
276	100	124807		
138	9.1	4.3	6.5#	
277	24.1	19.4	29.0	

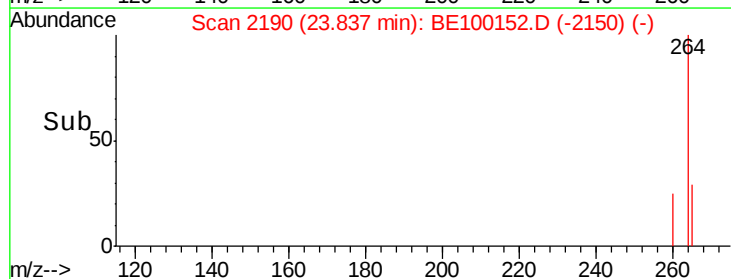
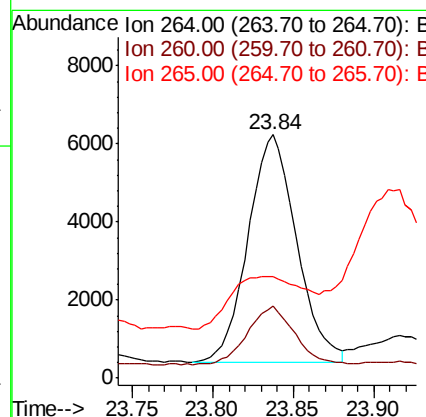
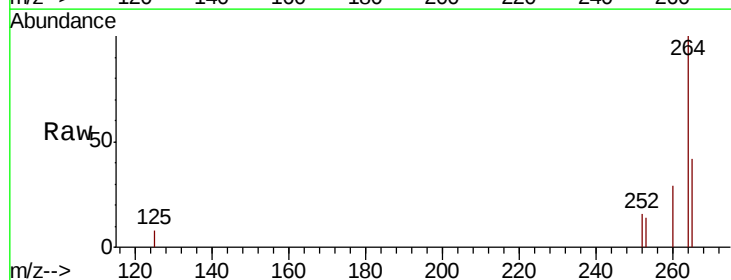
Manual Integrations
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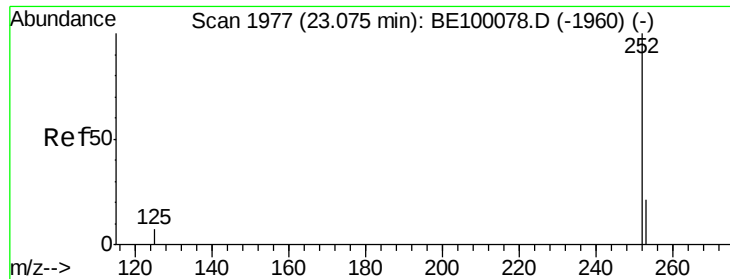
mohammad
6/25/2019 3:21:45 PM



#34
Perylene-d12
Concen: 0.400 ng
RT: 23.84 min Scan# 2190
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	12396		
260	29.4	20.8	31.2	
265	41.9	23.2	34.8#	





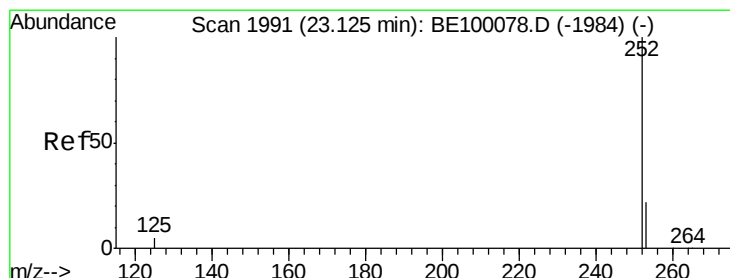
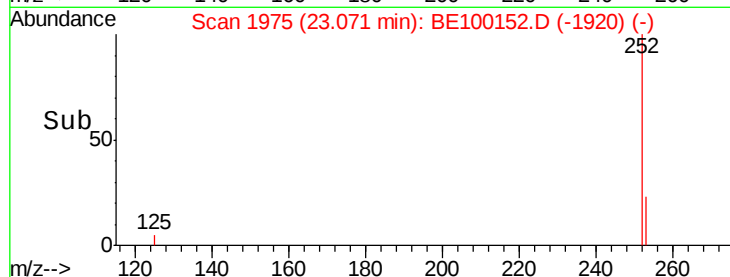
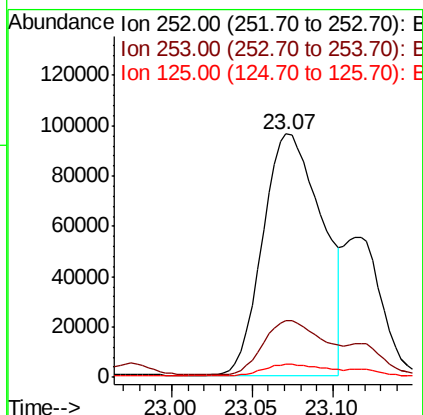
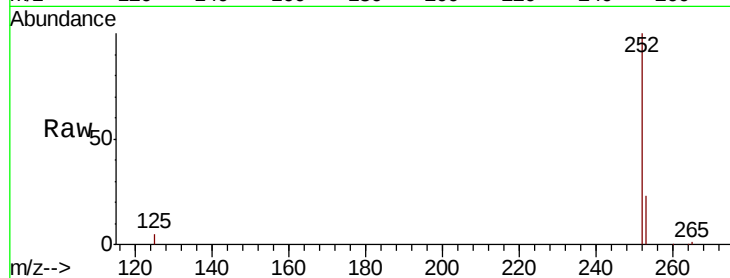
#35
Benzo(b)fluoranthene
Concen: 6.771 ng
RT: 23.07 min Scan# 1975
Delta R.T. -0.00 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Instrument :
BNA_E
ClientSampleId :
EXT-013-SW163-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	5.3	6.4	9.6

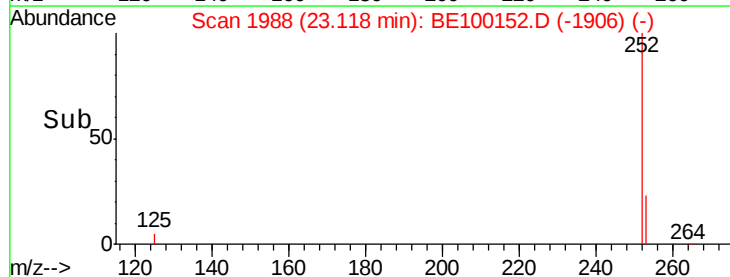
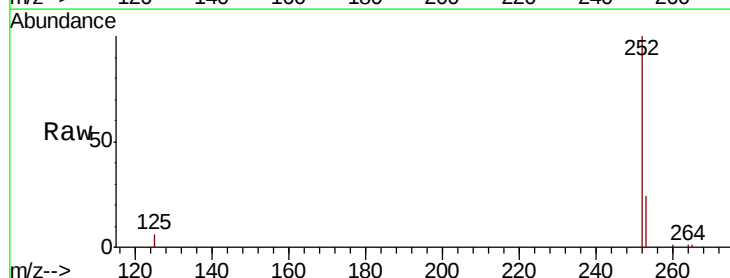
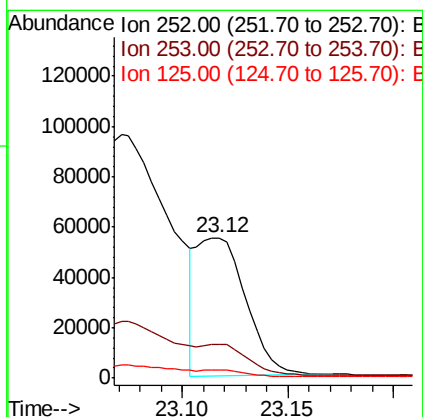
Manual Integrations
APPROVED

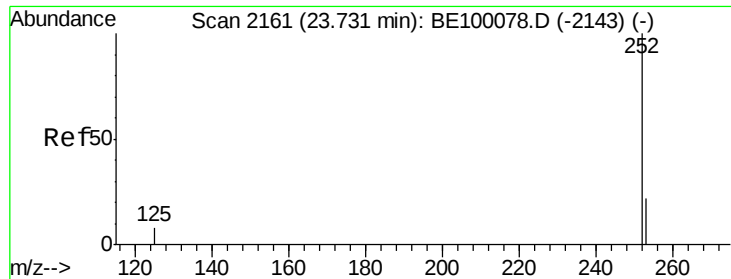
mohammad
6/25/2019 3:21:45 PM



#36
Benzo(k)fluoranthene
Concen: 2.145 ng m
RT: 23.12 min Scan# 1988
Delta R.T. -0.01 min
Lab File: BE100152.D
Acq: 22 Jun 2019 2:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.9	28.3
125	5.6	5.3	7.9





#37

Benzo(a)pyrene

Concen: 5.087 ng/mL

RT: 23.73 min Scan# 2159

Delta R.T. -0.00 min

Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Instrument :

BNA_E

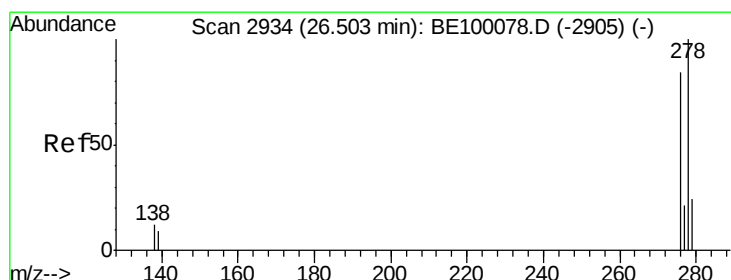
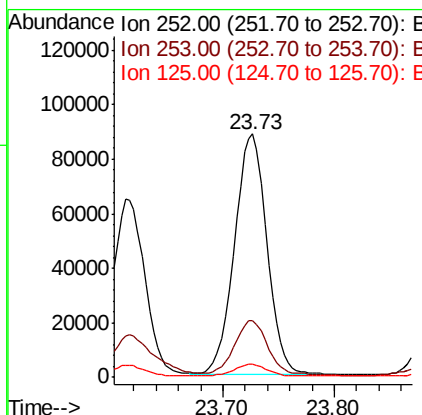
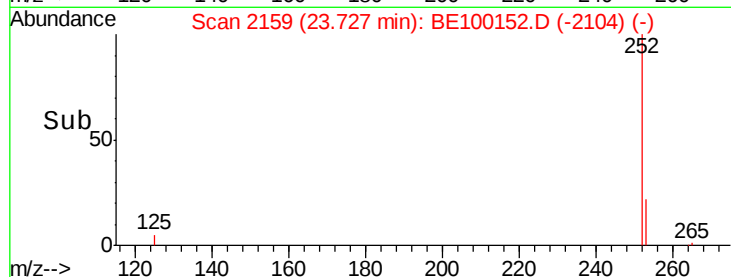
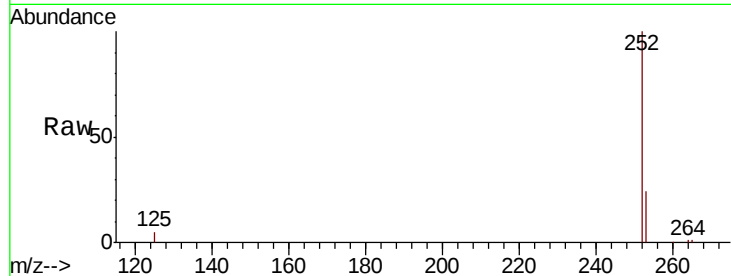
ClientSampleId :

EXT-013-SW163-061319

Tot Ion:	252	Resp:	178602
Ion Ratio	Lower	Upper	
252	100		
253	23.5	19.4	29.2
125	5.2	8.0	12.0

Manual Integrations
APPROVED

mohammad
6/25/2019 3:21:45 PM



#38

Dibenzo(a,h)anthracene

Concen: 0.913 ng/mL

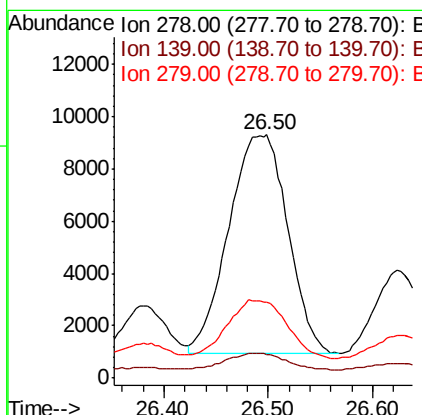
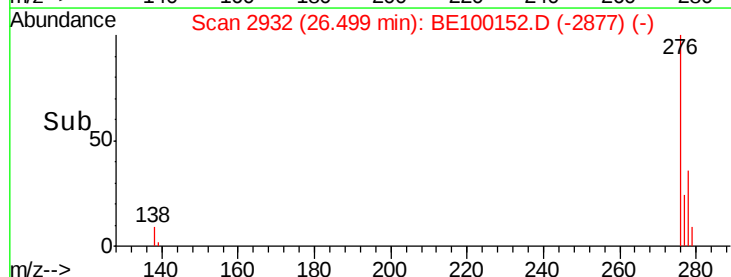
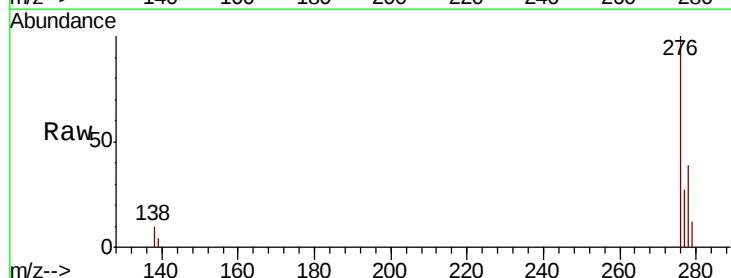
RT: 26.50 min Scan# 2932

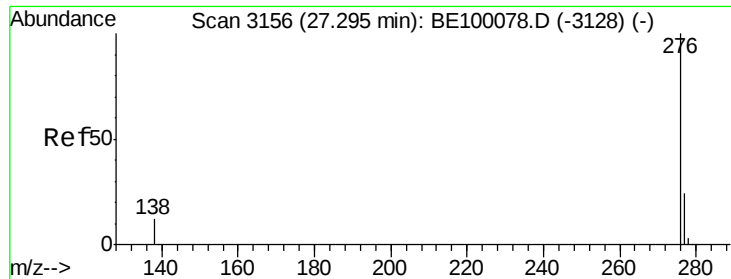
Delta R.T. -0.00 min

Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Tgt Ion:	278	Resp:	32843
Ion Ratio	Lower	Upper	
278	100		
139	9.5	9.0	13.6
279	31.3	21.4	32.0





#39

Benzo(a,h,i)perylene

Concen: 3.394 ng

RT: 27.29 min Scan# 3155

Delta R.T. -0.00 min

Lab File: BE100152.D

Acq: 22 Jun 2019 2:49

Instrument :

BNA_E

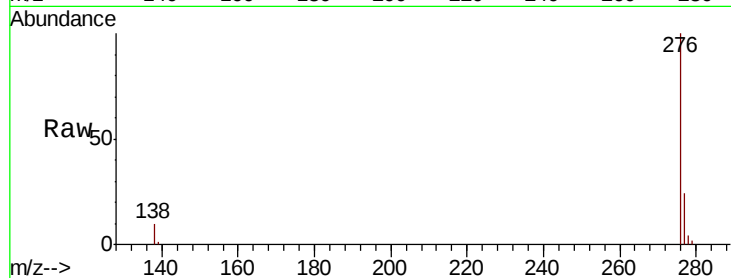
ClientSampleId :

EXT-013-SW163-061319

Tot Ion:	276	Resp:	126951
Ion Ratio	Lower	Upper	
276	100		
277	24.2	20.3	30.5
138	10.1	11.3	16.9

Manual Integrations
APPROVED

mohammad
6/25/2019 3:21:45 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

