

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\
 Data File : BE100146.D
 Acq On : 21 Jun 2019 21:06
 Operator : JU/SJ
 Sample : K3428-12
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-084-SW156-061319

Manual Integrations
 APPROVED

mohammad
 6/25/2019 3:21:27 PM

Quant Time: Jun 22 03:17:10 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	637	0.40	ng	-0.01
7) Naphthalene-d8	10.52	136	2338	0.40	ng	-0.01
13) Acenaphthene-d10	14.40	164	2146	0.40	ng	-0.01
19) Phenanthrene-d10	17.15	188	6921	0.40	ng	-0.01
27) Chrysene-d12	21.34	240	10468	0.40	ng	0.00
34) Perylene-d12	23.83	264	13768	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.29	112	522	0.39	ng	-0.01
5) Phenol-d6	6.89	99	767	0.42	ng	-0.03
8) Nitrobenzene-d5	8.90	82	812	0.36	ng	-0.01
11) 2-Methylnaphthalene-d10	12.14	152	133	0.03	ng	-0.01
14) 2,4,6-Tribromophenol	15.89	330	488	0.41	ng	-0.03
15) 2-Fluorobiphenyl	13.02	172	2198	0.26	ng	-0.03
25) Fluoranthene-d10	19.18	212	3087	0.03	ng	-0.01
29) Terphenyl-d14	19.79	244	5383	0.26	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.58	128	11360	0.447	ng	99
12) 2-Methylnaphthalene	12.21	142	2363	0.566	ng	95
16) Acenaphthylene	14.13	152	21946	2.154	ng	98
17) Acenaphthene	14.47	154	6337	1.113	ng	96
18) Fluorene	15.45	166	11364	1.340	ng	# 88
23) Phenanthrene	17.19	178	338928	20.439	ng	99
24) Anthracene	17.28	178	45785	3.274	ng	98
26) Fluoranthene	19.22	202	649942	24.417	ng	98
28) Pyrene	19.59	202	1153085	42.856	ng	# 93
30) Benzo(a)anthracene	21.33	228	640950	20.582	ng	97
31) Chrysene	21.38	228	758704m	20.968	ng	
32) Bis(2-ethylhexyl)phthalate	21.24	149	24758	0.843	ng	# 94
33) Indeno(1,2,3-cd)pyrene	26.47	276	254744	6.257	ng	# 96
35) Benzo(b)fluoranthene	23.07	252	540740	13.384	ng	# 97
36) Benzo(k)fluoranthene	23.12	252	175501m	3.819	ng	
37) Benzo(a)pyrene	23.72	252	516258	13.238	ng	# 93
38) Dibenzo(a,h)anthracene	26.49	278	91154	2.280	ng	# 94
39) Benzo(a,h,i)perylene	27.29	276	313953	7.558	ng	# 95

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

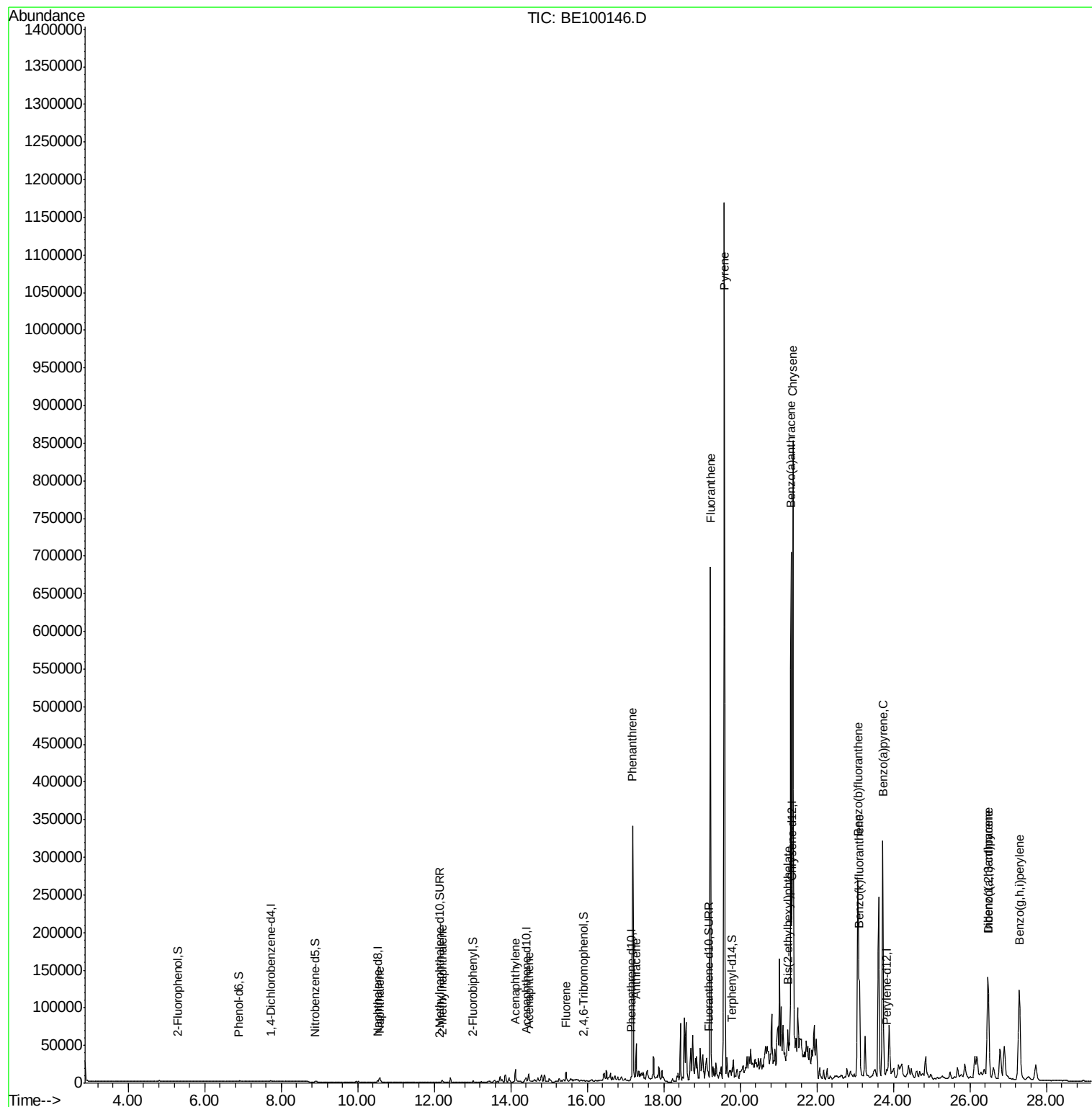
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE062119\
Data File : BE100146.D
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Misc :
ALS Vial : 7 Sample Multiplier: 1

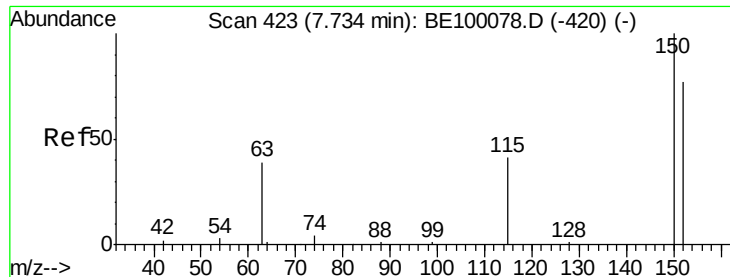
Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

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#1

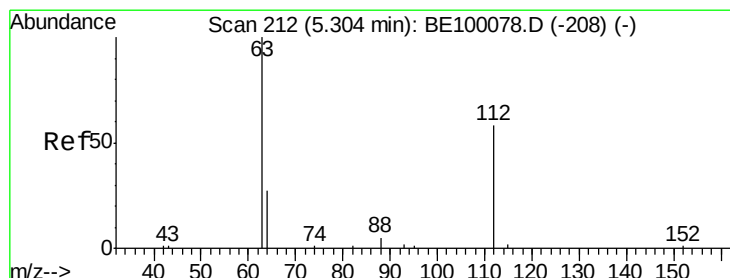
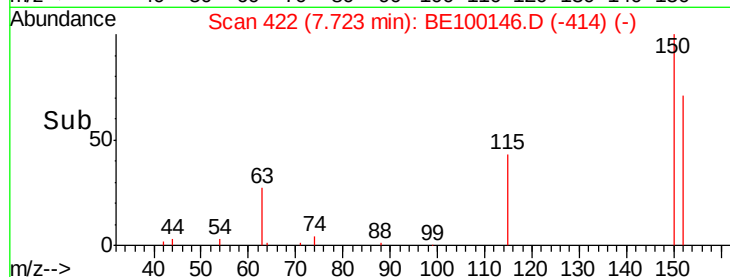
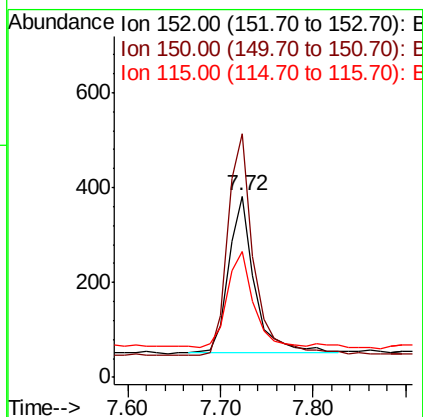
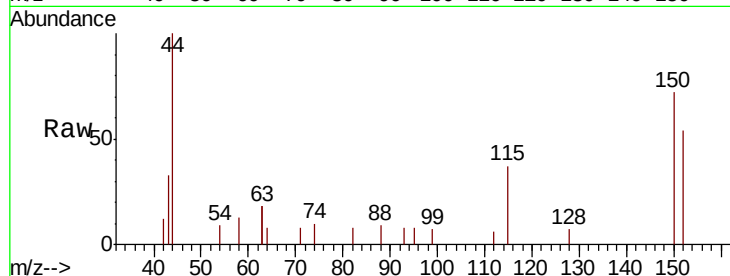
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.72 min Scan# 422
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
152	100		
150	134.3	99.8	149.8
115	69.4	51.3	76.9

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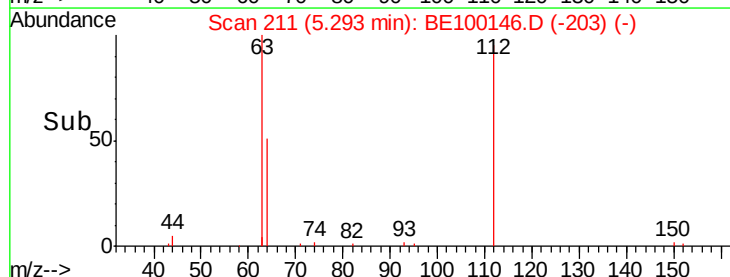
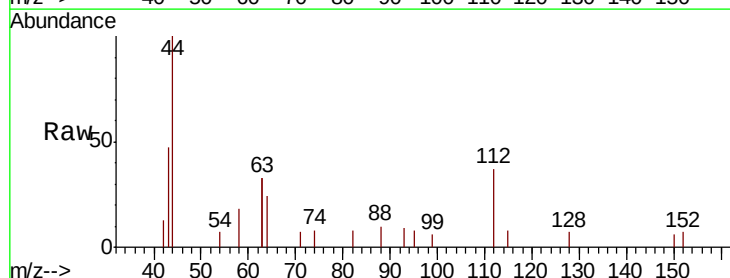
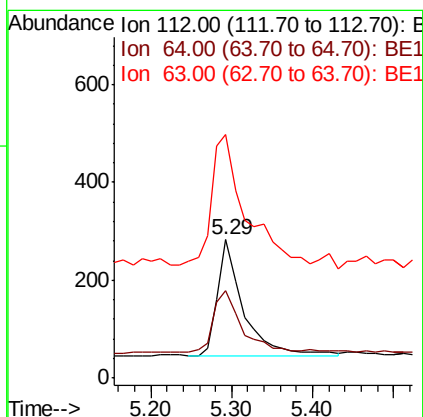
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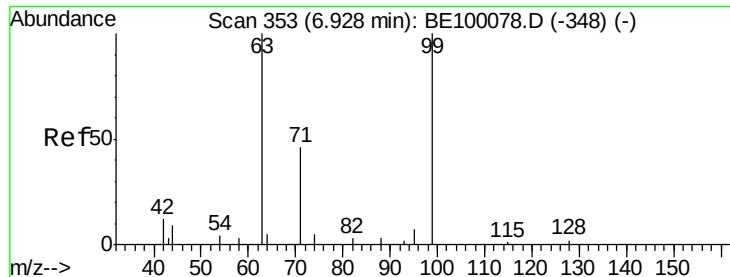


#4

2-Fluorophenol
Concen: 0.395 ng
RT: 5.29 min Scan# 211
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	22.0	33.0#
63	148.5	121.8	182.6





#5

Phenol-d6

Concen: 0.423 ng

RT: 6.89 min Scan# 350

Delta R.T. -0.03 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Instrument :

BNA_E

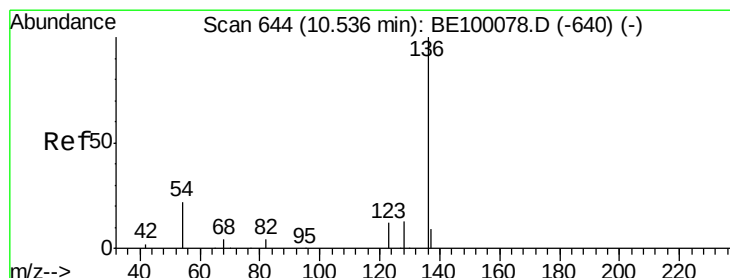
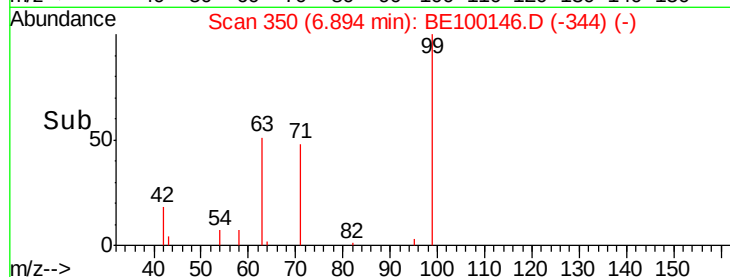
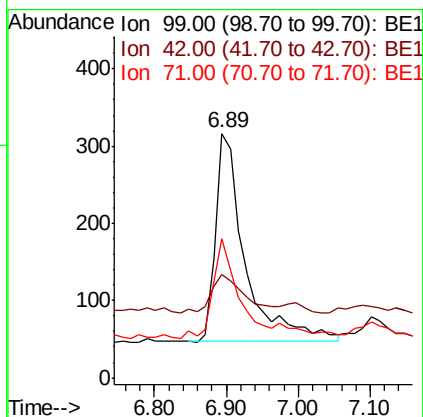
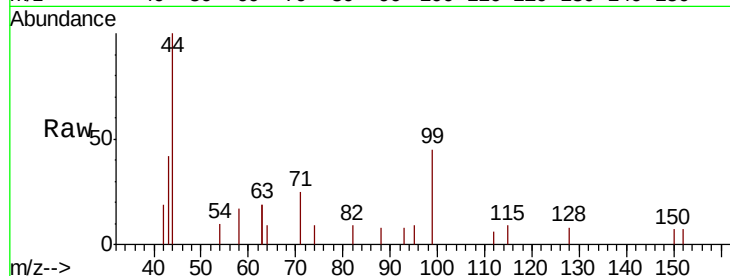
ClientSampleId :

EXT-084-SW156-061319

Tot Ion:	99	Resp:	767
Ion	Ratio	Lower	Upper
99	100		
42	19.9	0.0	0.0#
71	40.9	37.6	56.4

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#7

Naphthalene-d8

Concen: 0.400 ng

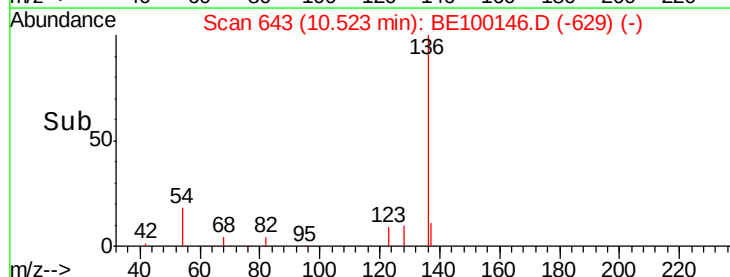
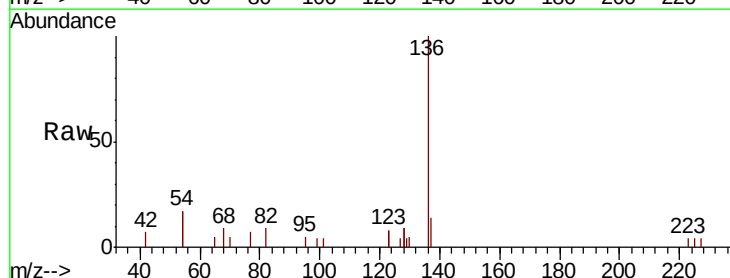
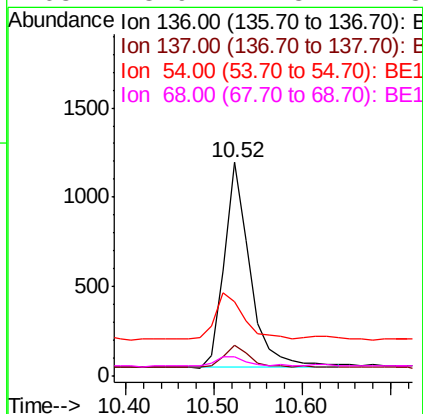
RT: 10.52 min Scan# 643

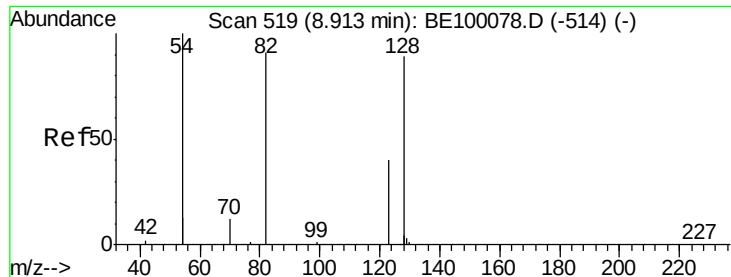
Delta R.T. -0.01 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Tgt Ion:	136	Resp:	2338
Ion	Ratio	Lower	Upper
136	100		
137	14.3	11.6	17.4
54	34.5	33.9	50.9
68	8.9	7.8	11.8





#8

Nitrobenzene-d5

Concen: 0.358 ng

RT: 8.90 min Scan# 518

Delta R.T. -0.01 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Instrument :

BNA_E

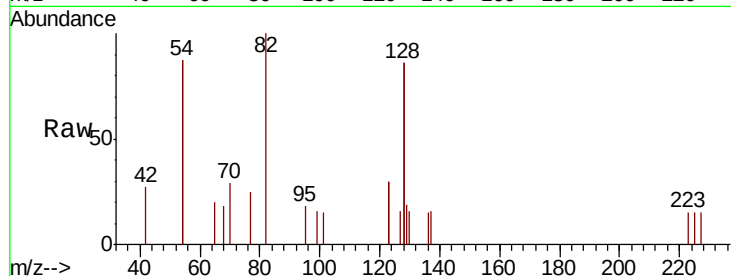
ClientSampleId :

EXT-084-SW156-061319

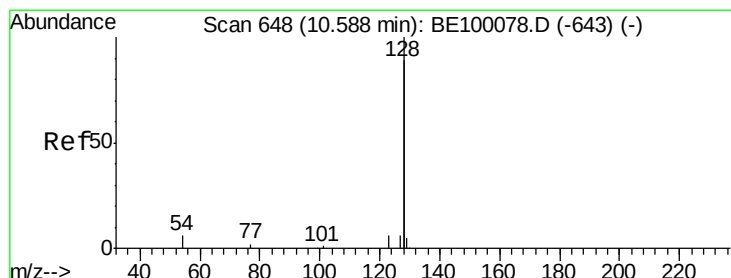
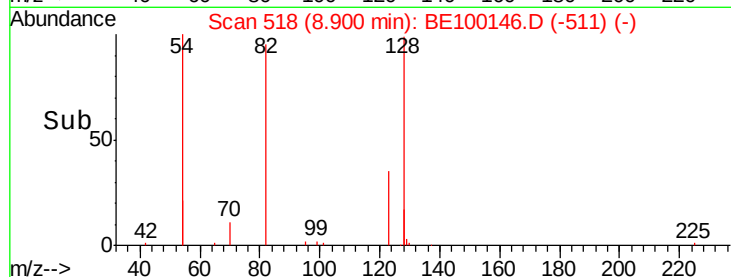
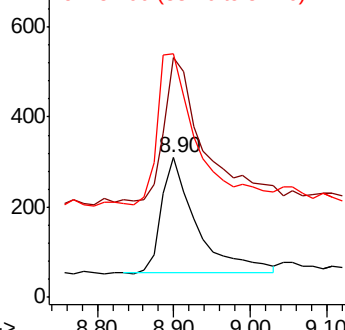
Tot Ion:	82	Resp:	812
Ion	Ratio	Lower	Upper
82	100		
128	171.6	128.0	192.0
54	174.2	143.4	215.0

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: 0.447 ng

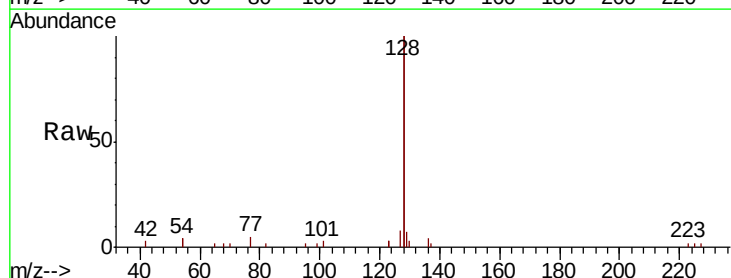
RT: 10.58 min Scan# 647

Delta R.T. -0.01 min

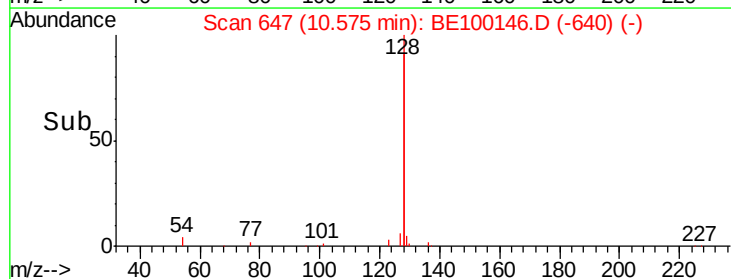
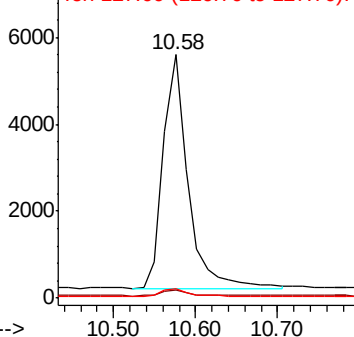
Lab File: BE100146.D

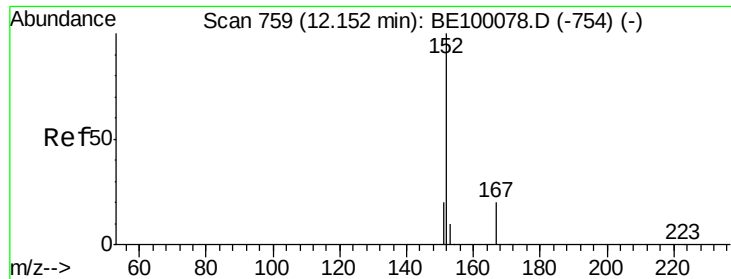
Acq: 21 Jun 2019 21:06

Tgt Ion:	128	Resp:	11360
Ion	Ratio	Lower	Upper
128	100		
129	3.5	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





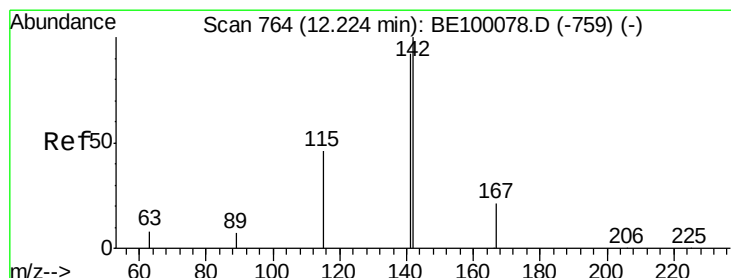
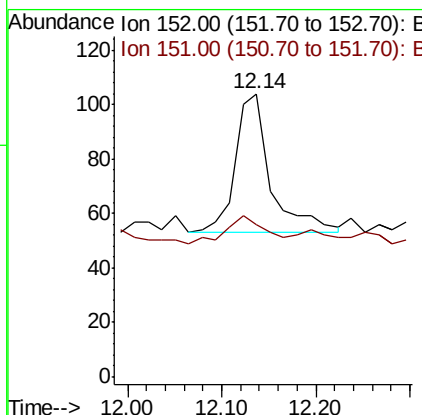
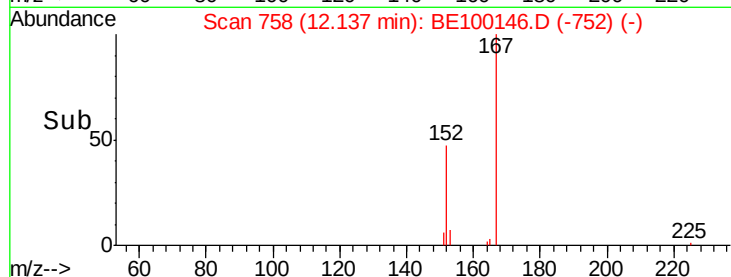
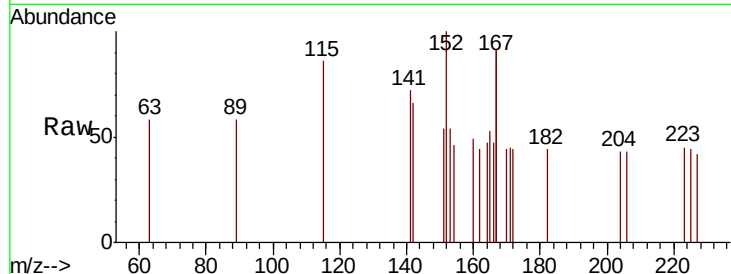
#11
 2-Methylnaphthalene-d10
 Concen: 0.030 ng
 RT: 12.14 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: BE100146.D
 Acq: 21 Jun 2019 21:06

Instrument :
 BNA_E
 ClientSampleId :
 EXT-084-SW156-061319

Tot Ion:152 Resp: 133
 Ion Ratio Lower Upper
 152 100
 151 21.1 16.3 24.5

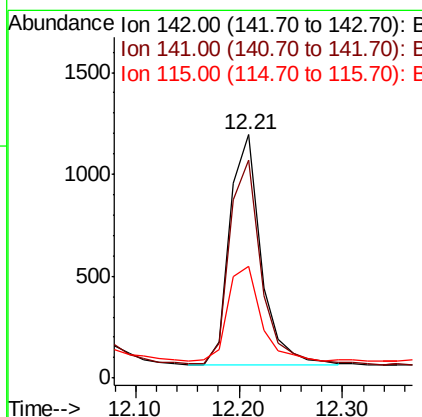
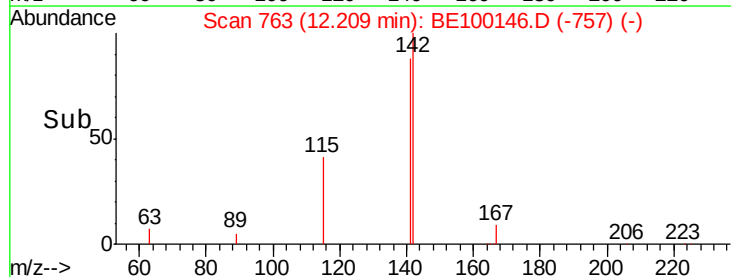
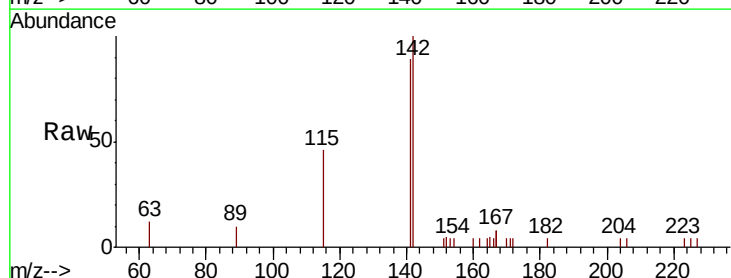
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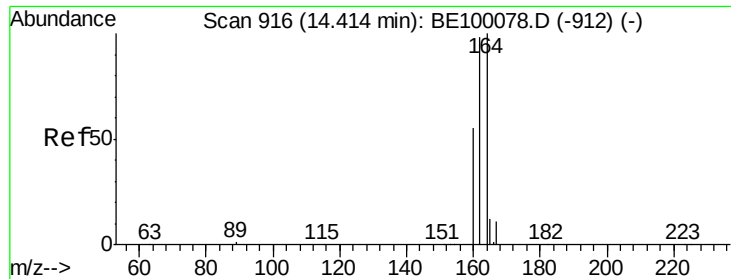
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#12
 2-Methylnaphthalene
 Concen: 0.566 ng
 RT: 12.21 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: BE100146.D
 Acq: 21 Jun 2019 21:06

Tgt Ion:142 Resp: 2363
 Ion Ratio Lower Upper
 142 100
 141 89.4 74.1 111.1
 115 45.9 40.9 61.3





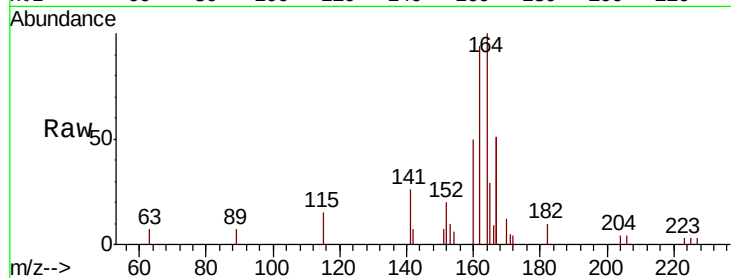
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.40 min Scan# 915
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
164	100		
162	93.6	78.2	117.2
160	49.7	45.6	68.4

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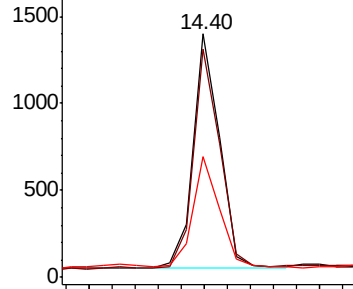


Abundance

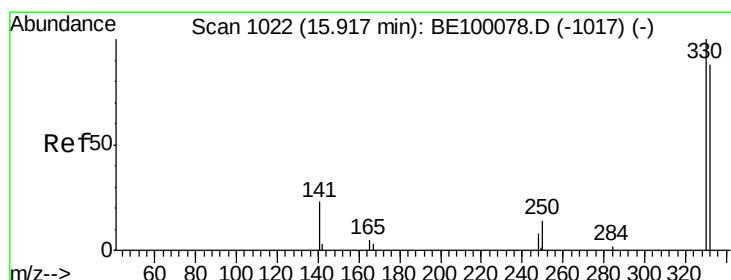
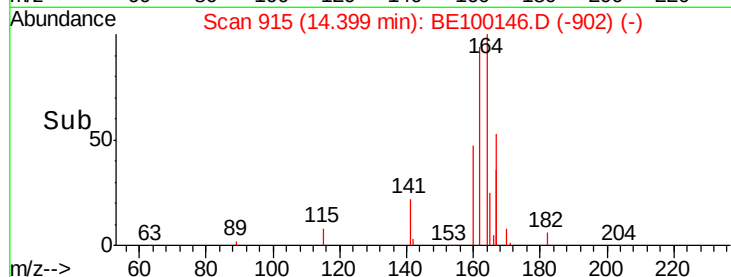
Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

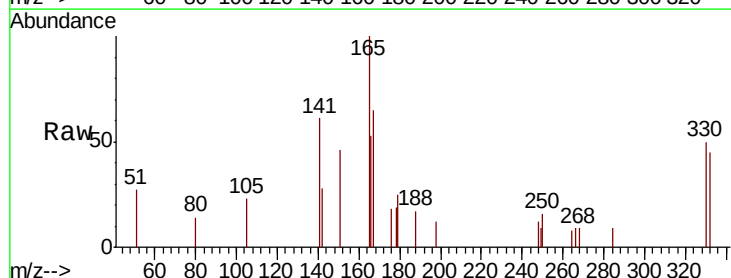


Time-->



#14
2,4,6-Tribromophenol
Concen: 0.412 ng
RT: 15.89 min Scan# 1020
Delta R.T. -0.03 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
330	100		
332	104.7	73.3	109.9
141	91.4	22.2	33.2#

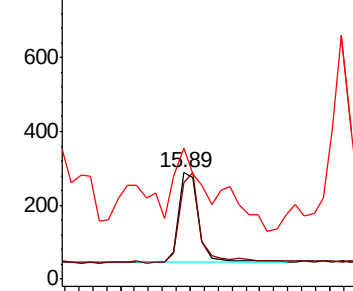


Abundance

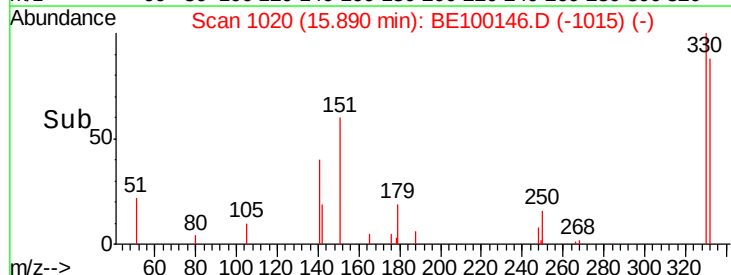
Ion 330.00 (329.70 to 330.70): E

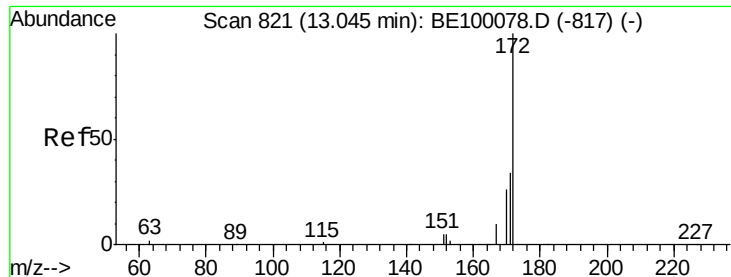
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



Time-->





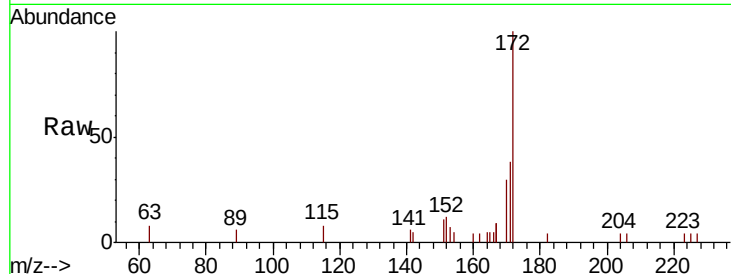
#15
2-Fluorobiphenyl
Concen: 0.260 ng
RT: 13.02 min Scan# 819
Delta R.T. -0.03 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.7	29.8	44.8
170	29.6	23.2	34.8

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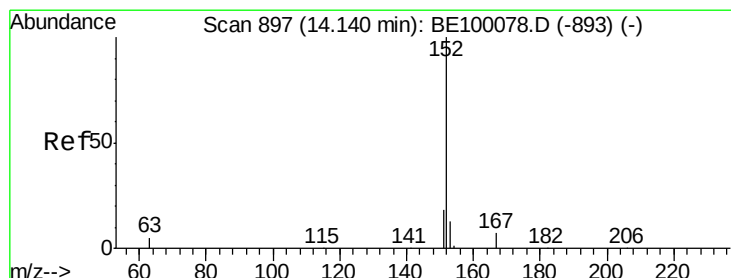
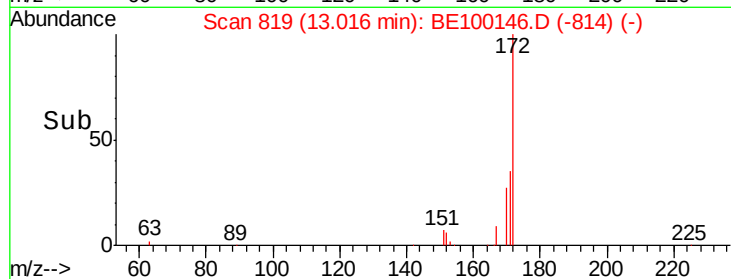
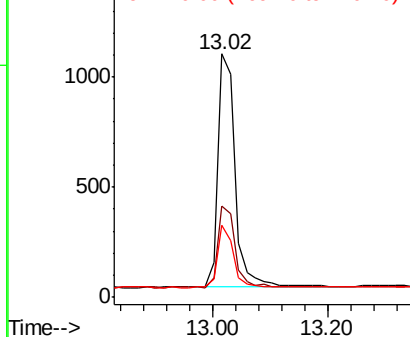


Abundance

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: 2.154 ng
RT: 14.13 min Scan# 896
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

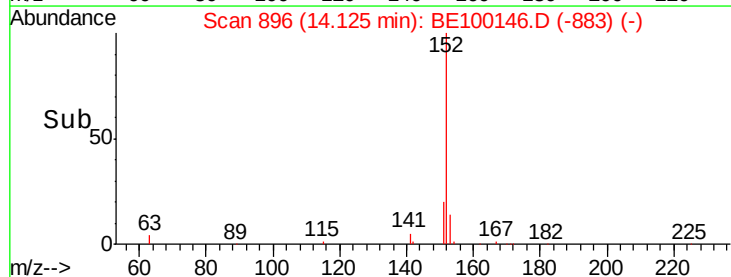
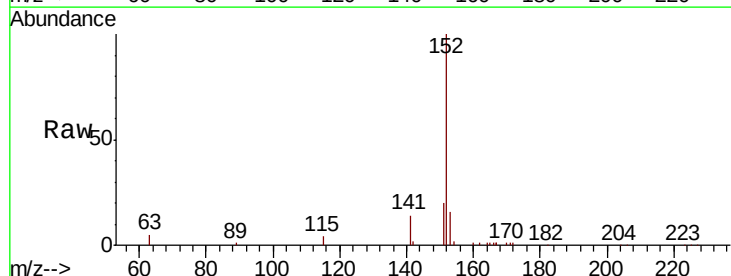
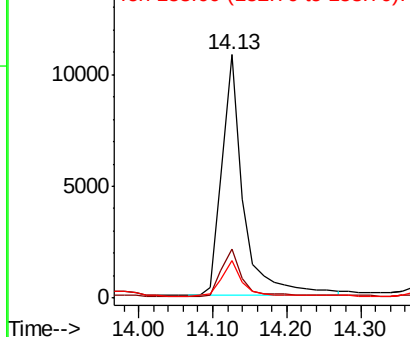
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.9	23.9
153	14.5	10.1	15.1

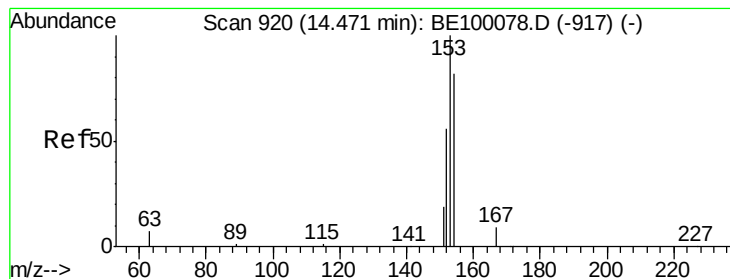
Abundance

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: 1.113 ng

RT: 14.47 min Scan# 920

Delta R.T. -0.00 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Instrument :

BNA_E

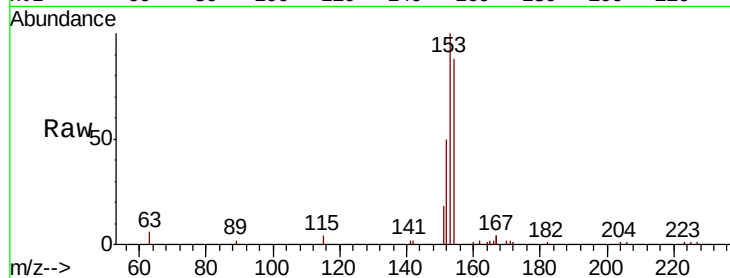
ClientSampleId :

EXT-084-SW156-061319

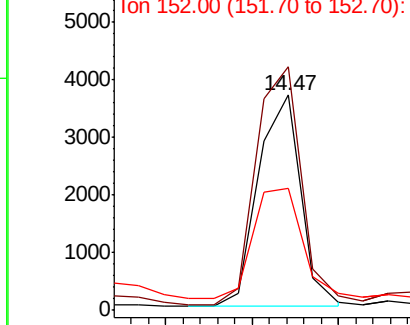
Tot Ion:	154	Resp:	6337
Ion Ratio	Lower	Upper	
154	100		
153	120.1	95.5	143.3
152	61.0	54.9	82.3

Manual Integrations
APPROVED

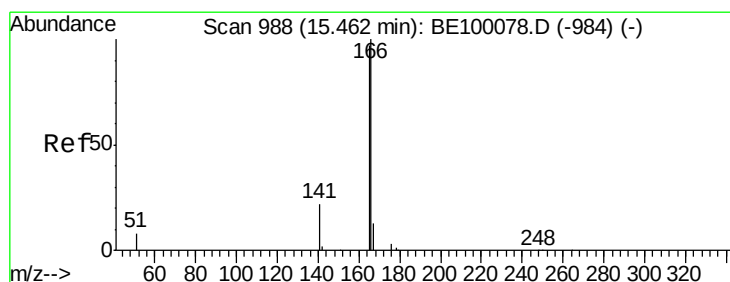
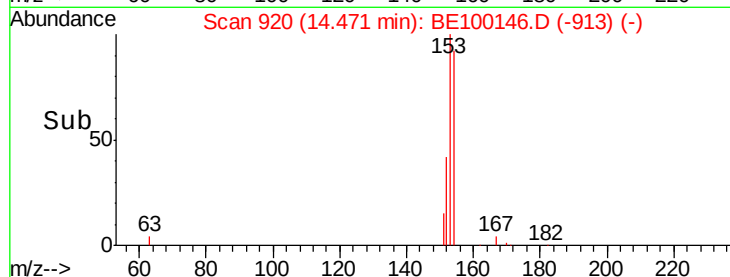
mohammad
6/25/2019 3:21:27 PM



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



Time-->



#18

Fluorene

Concen: 1.340 ng

RT: 15.45 min Scan# 987

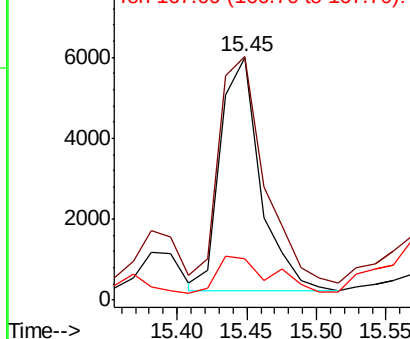
Delta R.T. -0.01 min

Lab File: BE100146.D

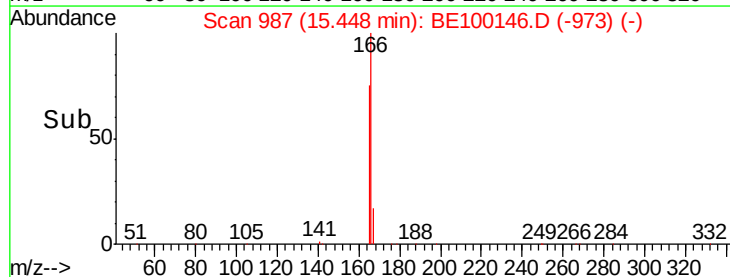
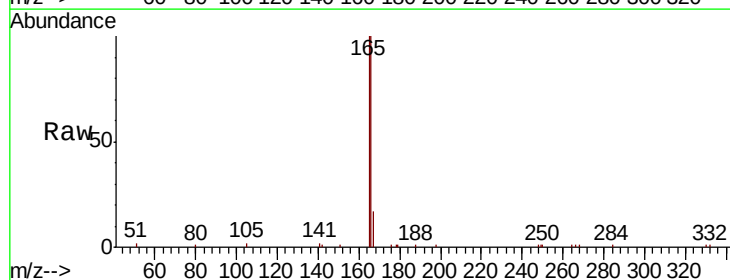
Acq: 21 Jun 2019 21:06

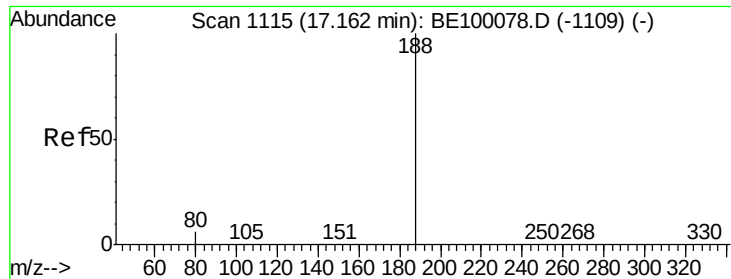
Tgt Ion:	166	Resp:	11364
Ion Ratio	Lower	Upper	
166	100		
165	110.3	79.8	119.8
167	22.2	10.2	15.4#

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



Time-->





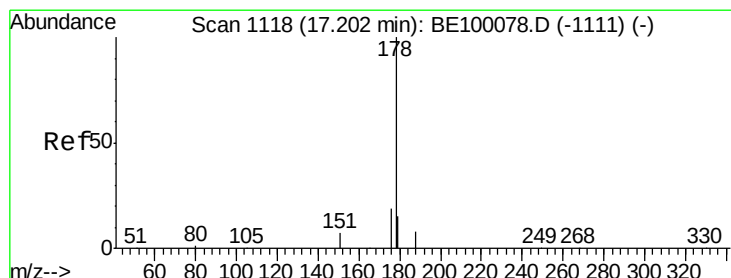
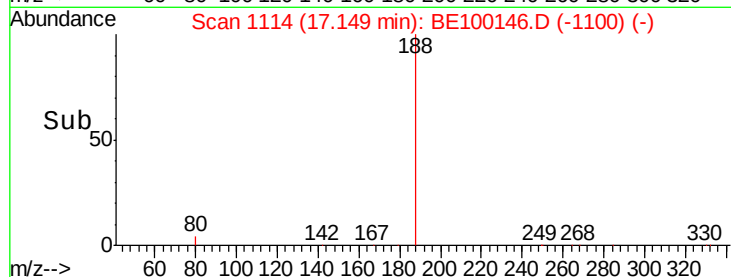
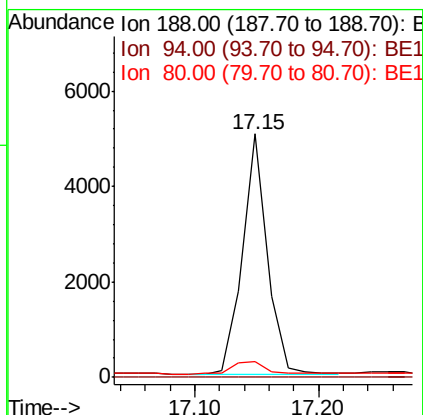
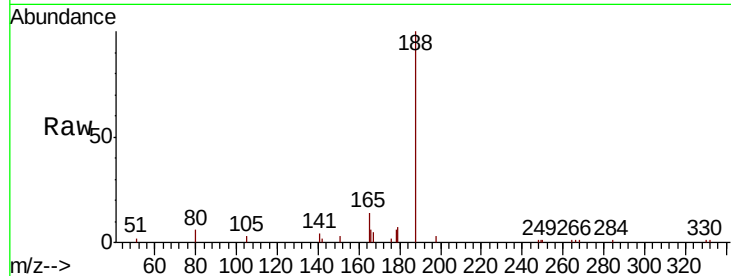
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.15 min Scan# 1114
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Resp	Lower	Upper
188	100	6921		
94	0.0	0.0	0.0	0.0
80	6.5	6.3	9.5	

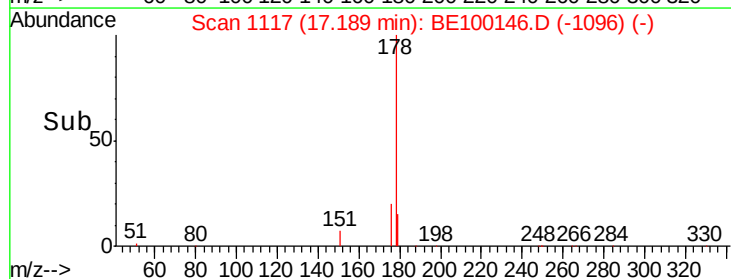
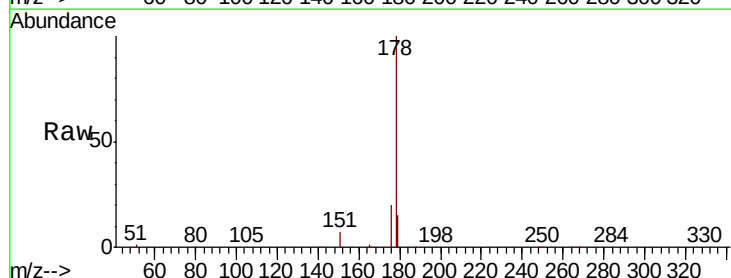
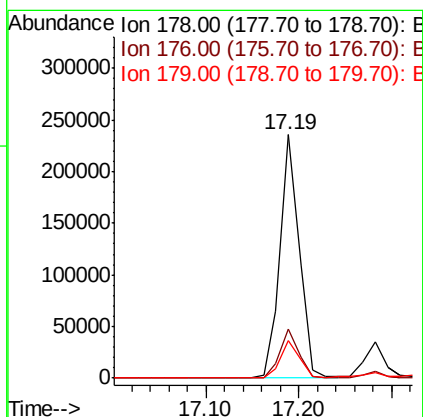
Manual Integrations
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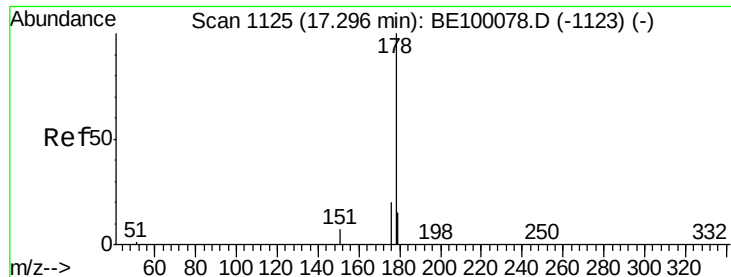
mohammad
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#23
Phenanthrene
Concen: 20.439 ng
RT: 17.19 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	338928		
176	19.8	15.9	23.9	
179	15.7	13.1	19.7	





#24

Anthracene

Concen: 3.274 ng

RT: 17.28 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Instrument :

BNA_E

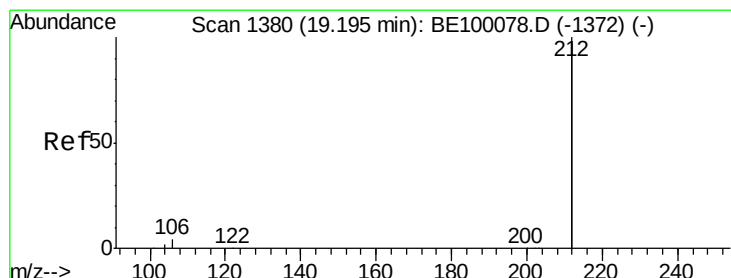
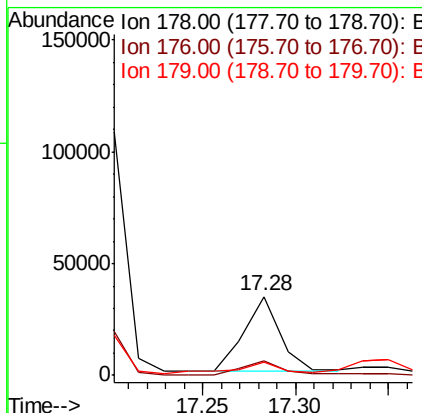
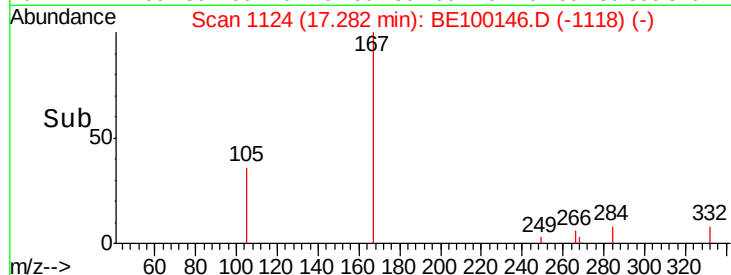
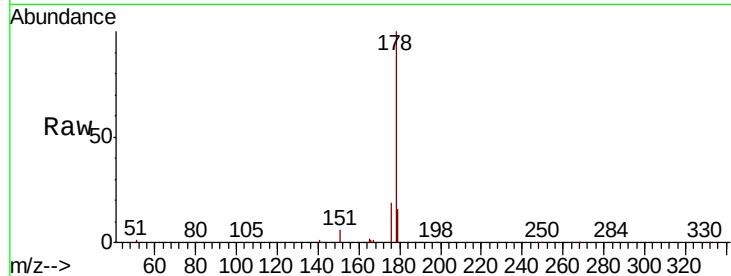
ClientSampleId :

EXT-084-SW156-061319

Tot Ion:	178	Resp:	45785
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.8	23.6
179	16.0	12.0	18.0

Manual Integrations
APPROVED

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#25

Fluoranthene-d10

Concen: 0.031 ng

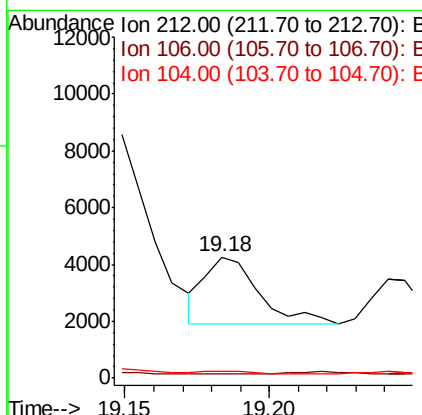
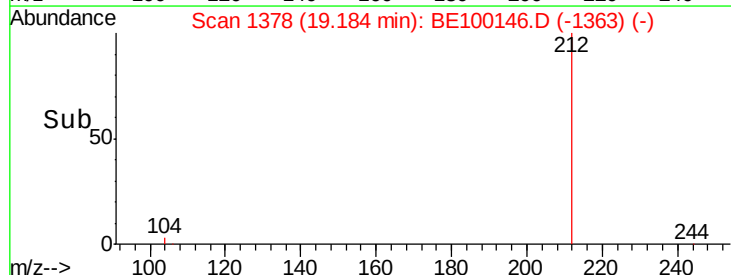
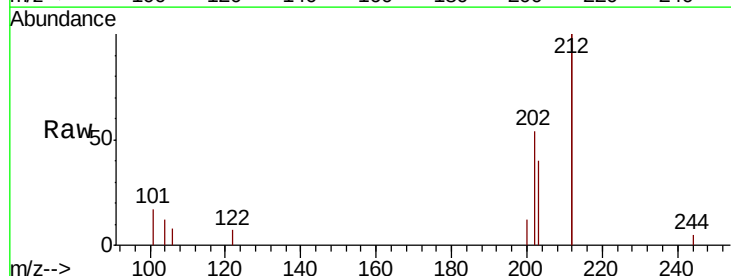
RT: 19.18 min Scan# 1378

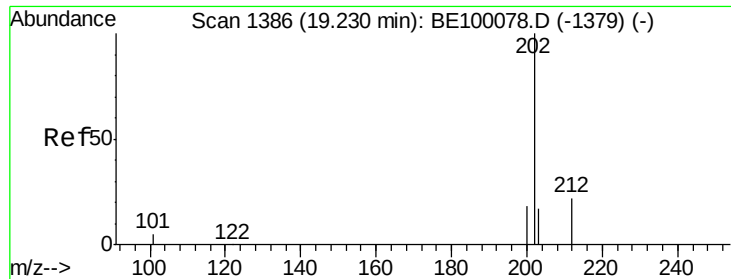
Delta R.T. -0.01 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Tgt Ion:	212	Resp:	3087
Ion Ratio	Lower	Upper	
212	100		
106	1.3	1.4	2.0#
104	3.3	0.8	1.2#





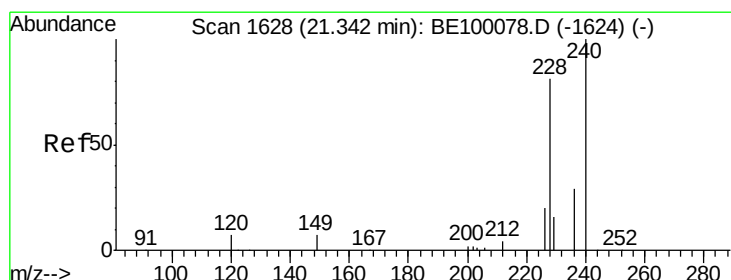
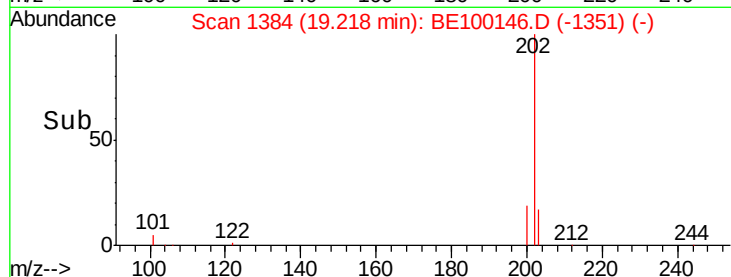
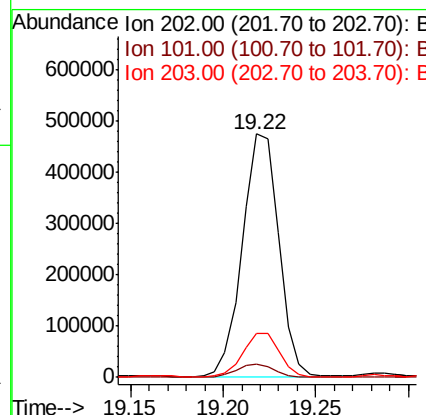
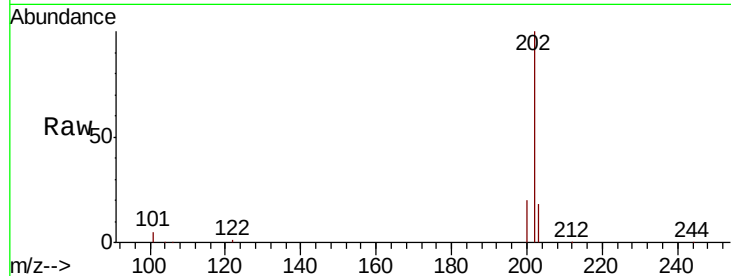
#26
 Fluoranthene
 Concen: 24.417 ng
 RT: 19.22 min Scan# 1384
 Delta R.T. -0.01 min
 Lab File: BE100146.D
 Acq: 21 Jun 2019 21:06

Instrument :
 BNA_E
 ClientSampleId :
 EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.3	5.0	7.4
203	18.1	13.7	20.5

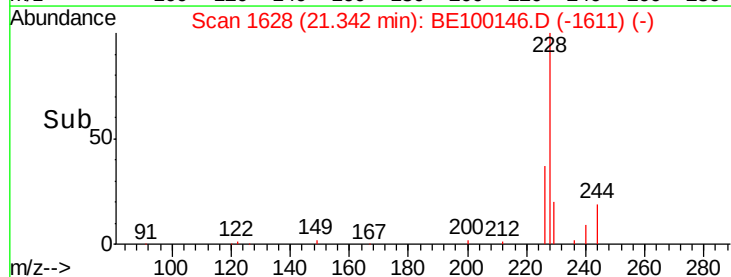
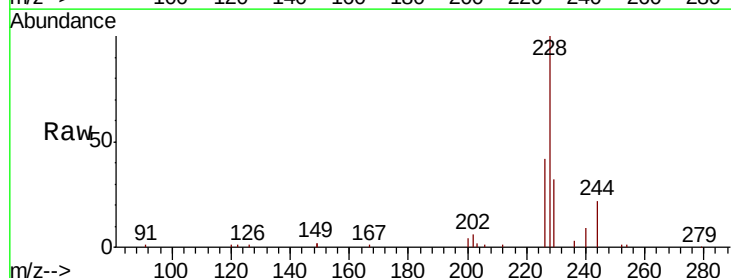
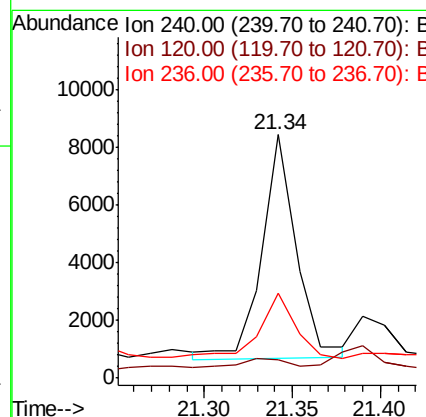
Manual Integrations
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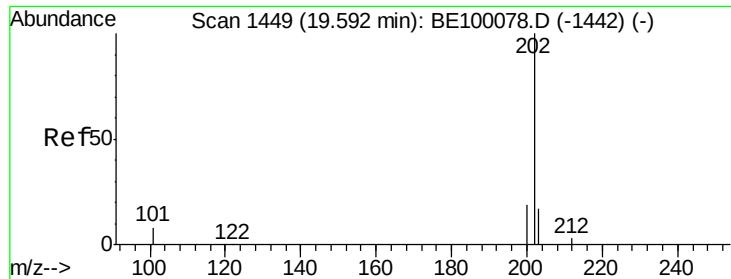
mohammad
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.34 min Scan# 1628
 Delta R.T. 0.00 min
 Lab File: BE100146.D
 Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.3	6.6	10.0
236	34.7	23.8	35.6





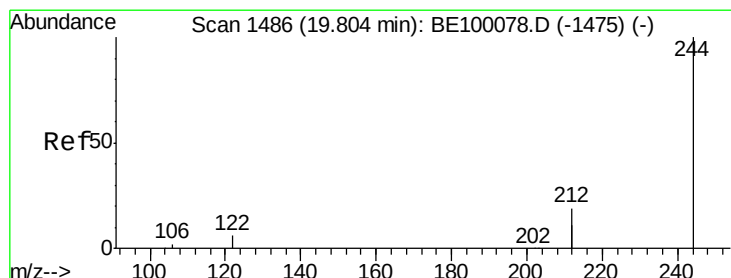
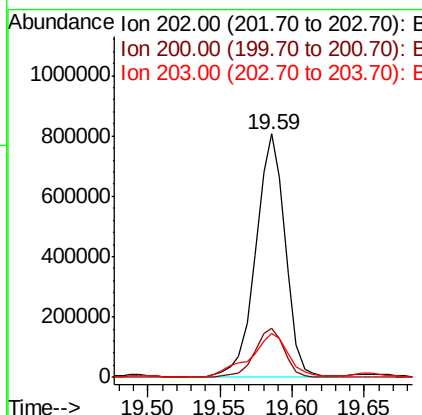
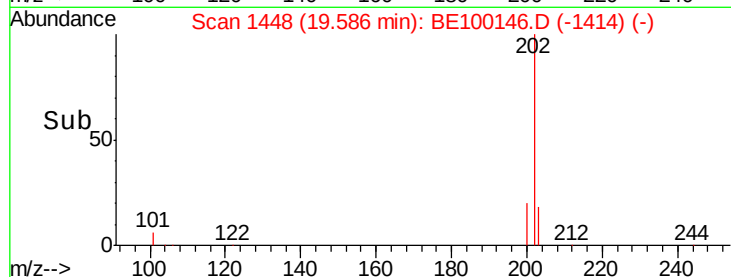
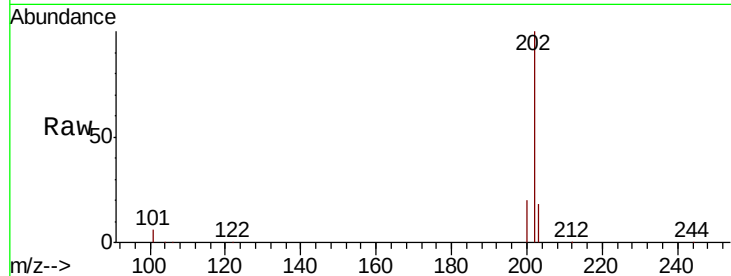
#28
Pvrene
Concen: 42.856 ng
RT: 19.59 min Scan# 1448
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.2	15.6	23.4
203	23.3	13.9	20.9

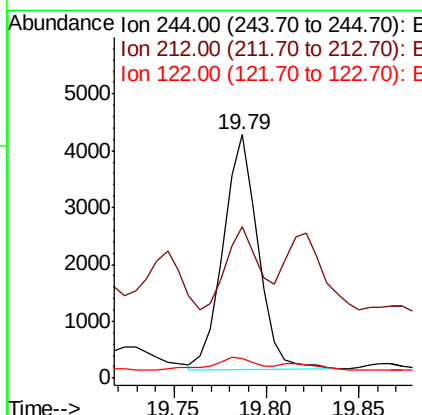
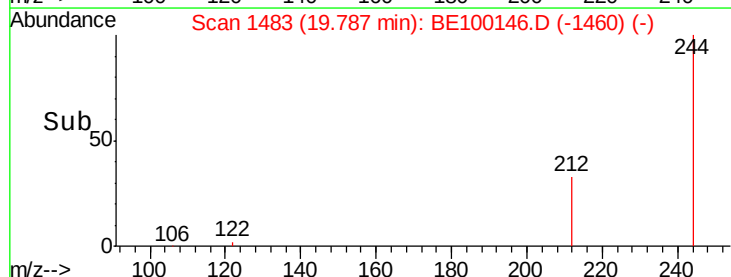
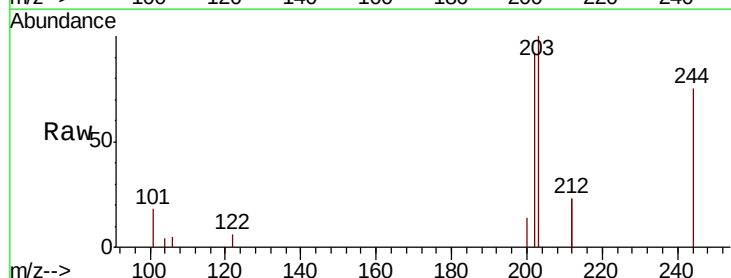
Manual Integrations
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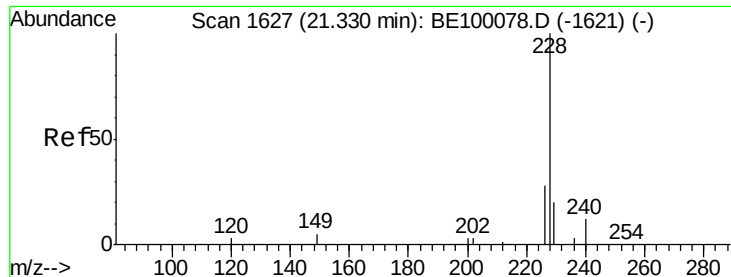
mohammad
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#29
Terphenyl-d14
Concen: 0.257 ng
RT: 19.79 min Scan# 1483
Delta R.T. -0.02 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
244	100		
212	62.4	29.8	44.8
122	7.8	6.1	9.1





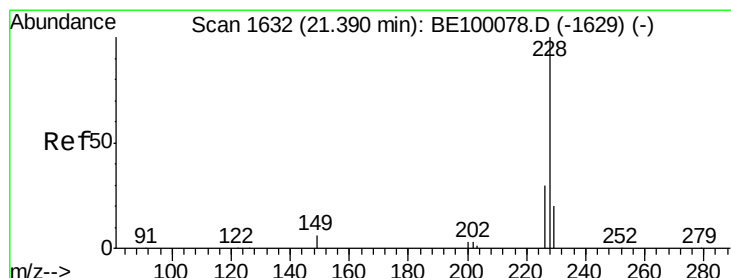
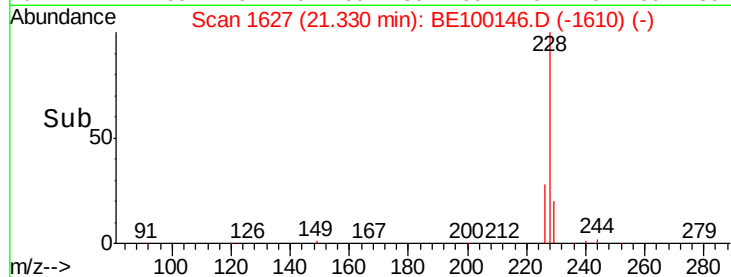
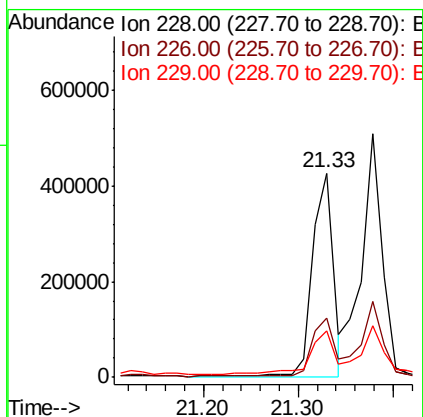
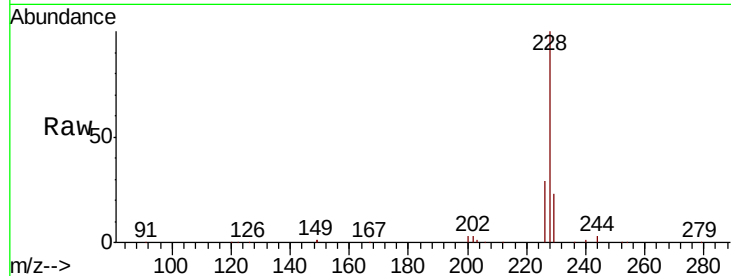
#30
Benzo(a)anthracene
Concen: 20.582 ng
RT: 21.33 min Scan# 1627
Delta R.T. 0.00 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

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

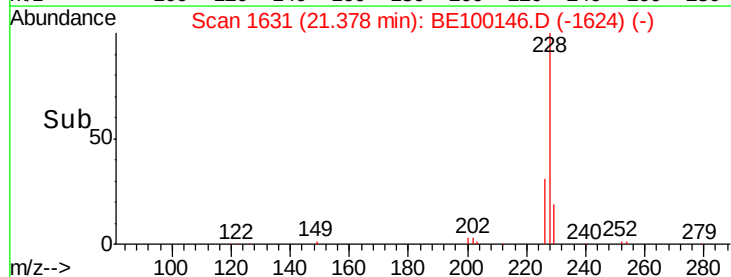
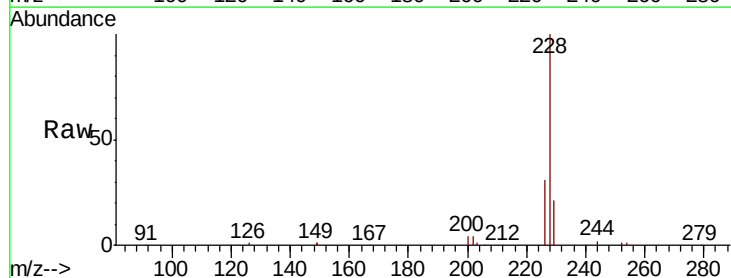
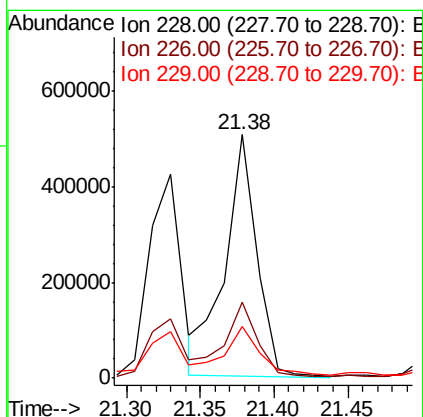
Manual Integrations
APPROVED

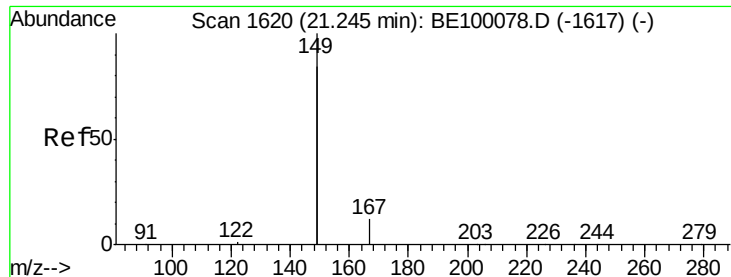
mohammad
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#31
Chrysene
Concen: 20.968 ng m
RT: 21.38 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.8	35.8
229	21.3	16.3	24.5





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.843 ng

RT: 21.24 min Scan# 1620

Delta R.T. -0.00 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Instrument :

BNA_E

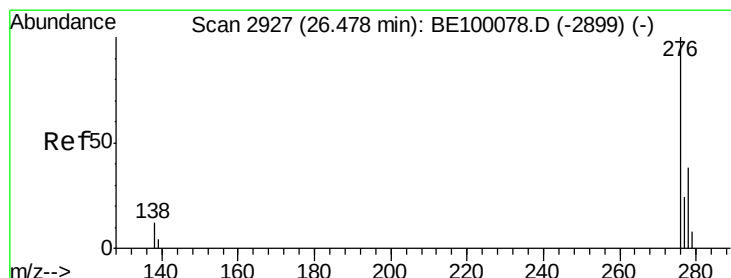
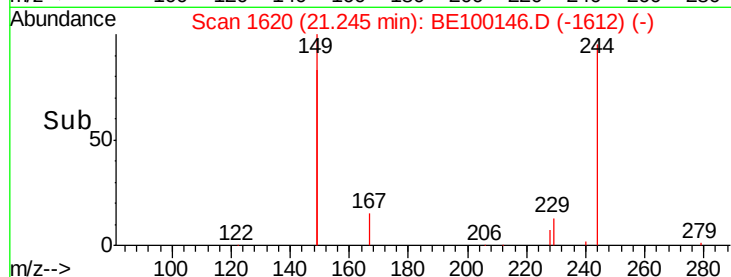
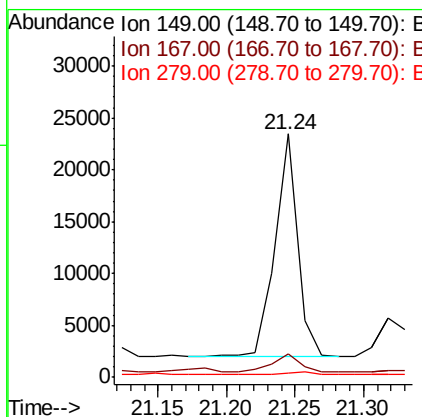
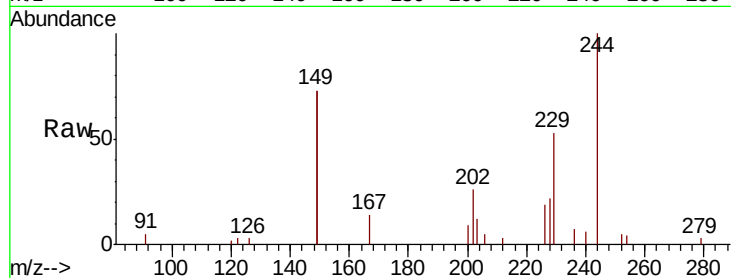
ClientSampleId :

EXT-084-SW156-061319

Tot Ion:	149	Resp:	24758
Ion Ratio	Lower	Upper	
149	100		
167	9.7	5.8	8.6#
279	1.5	1.1	1.7

Manual Integrations
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mohammad
6/25/2019 3:21:27 PM



#33

Indeno(1,2,3-cd)pyrene

Concen: 6.257 ng

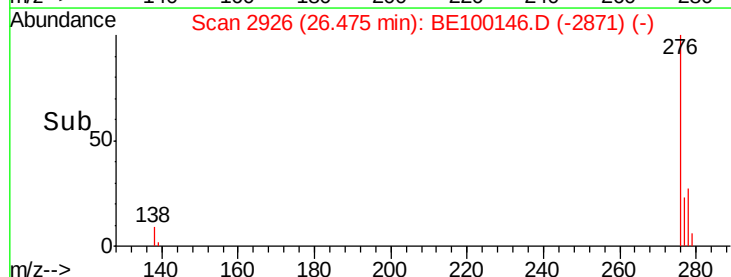
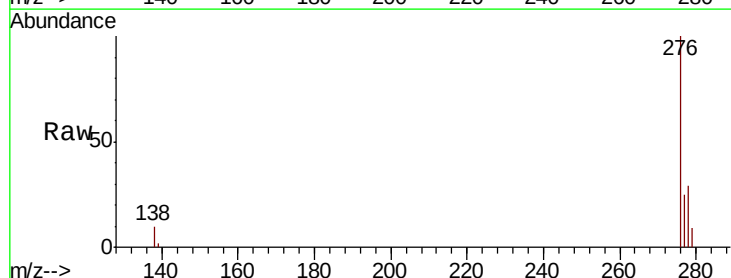
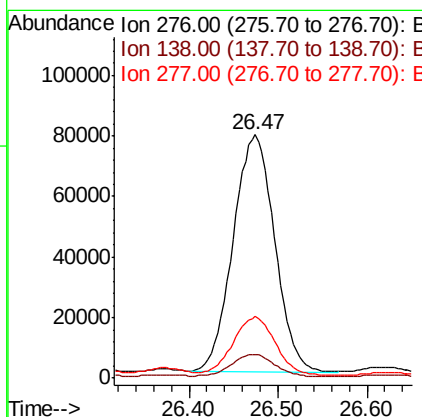
RT: 26.47 min Scan# 2926

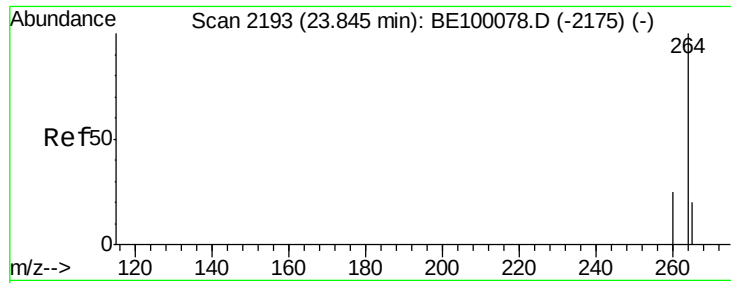
Delta R.T. -0.00 min

Lab File: BE100146.D

Acq: 21 Jun 2019 21:06

Tgt Ion:	276	Resp:	254744
Ion Ratio	Lower	Upper	
276	100		
138	9.6	4.3	6.5#
277	25.1	19.4	29.0





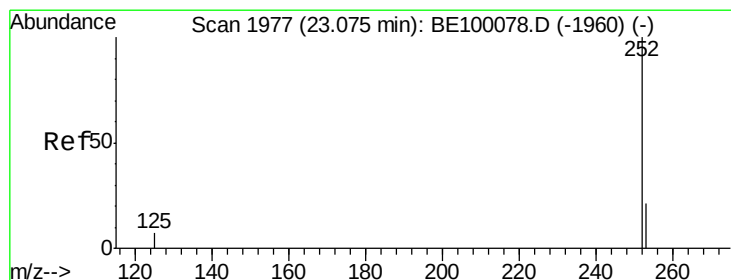
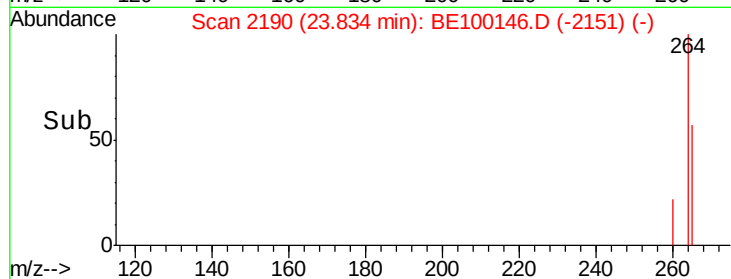
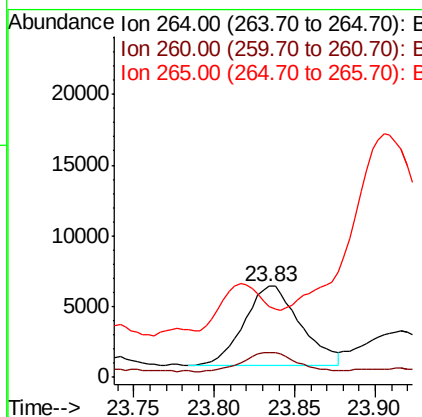
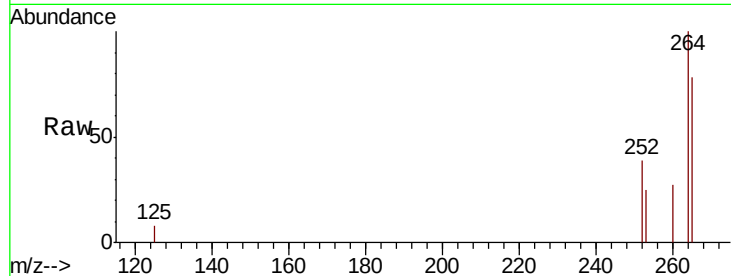
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.83 min Scan# 2190
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.3	20.8	31.2
265	77.7	23.2	34.8#

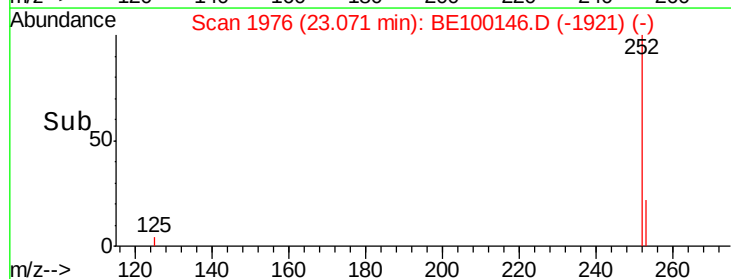
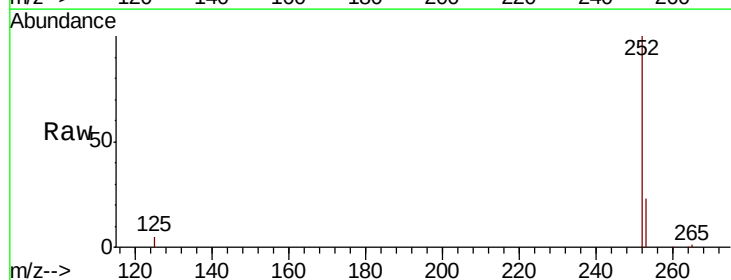
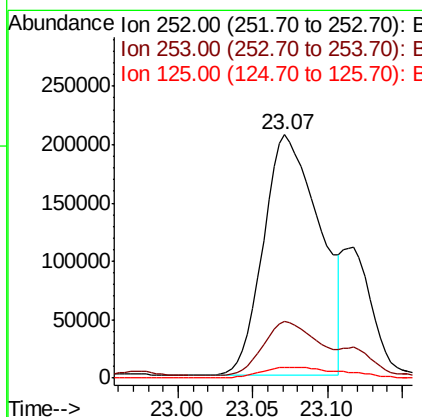
Manual Integrations
APPROVED

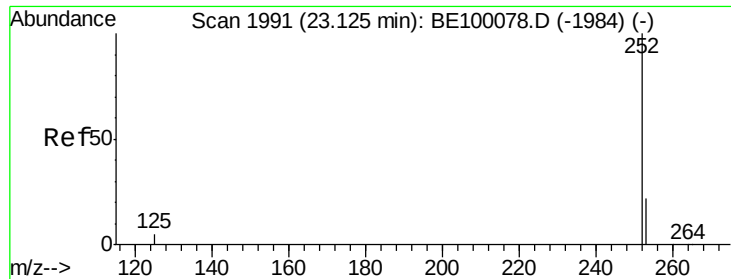
mohammad
6/25/2019 3:21:27 PM



#35
Benzo(b)fluoranthene
Concen: 13.384 ng
RT: 23.07 min Scan# 1976
Delta R.T. -0.00 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	4.6	6.4	9.6#





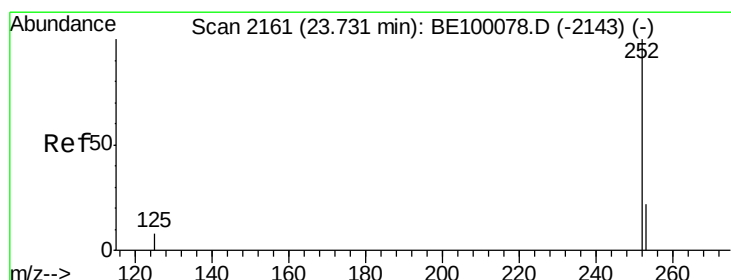
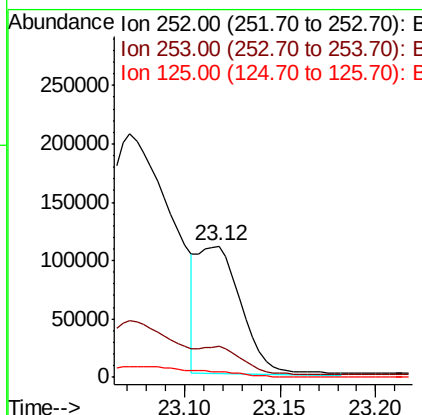
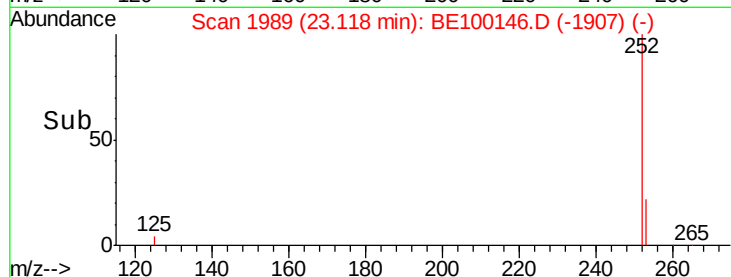
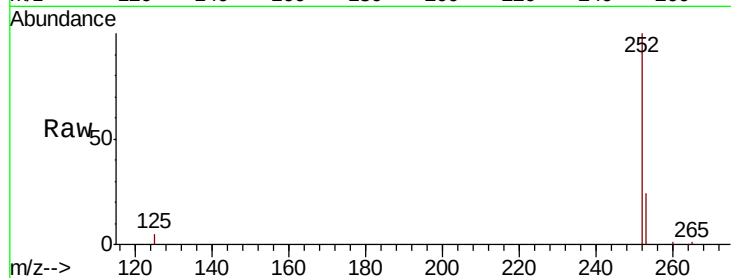
#36
Benzo(k)fluoranthene
Concen: 3.819 ng m
RT: 23.12 min Scan# 1989
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.9	28.3
125	4.6	5.3	7.9

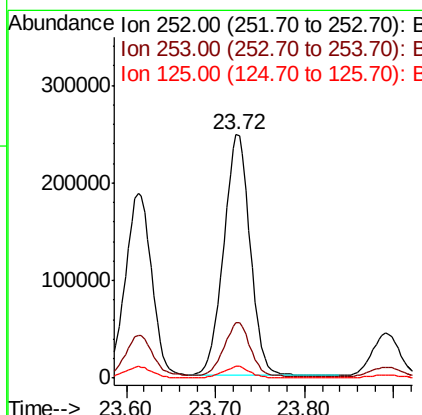
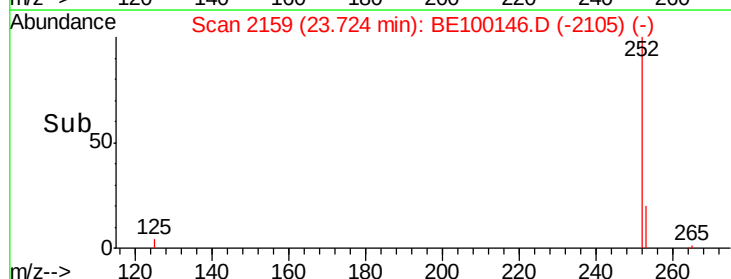
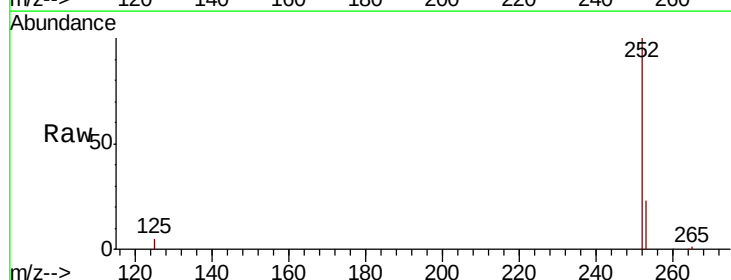
Manual Integrations
APPROVED

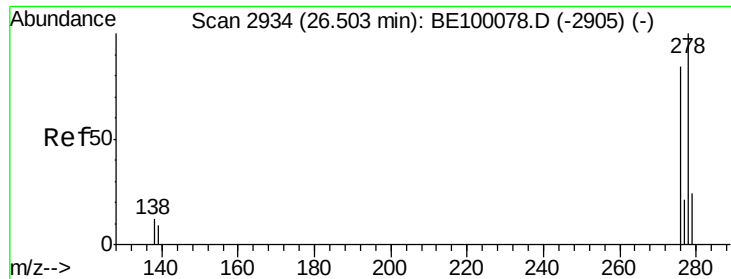
mohammad
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#37
Benzo(a)pyrene
Concen: 13.238 ng
RT: 23.72 min Scan# 2159
Delta R.T. -0.01 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	19.4	29.2
125	4.7	8.0	12.0





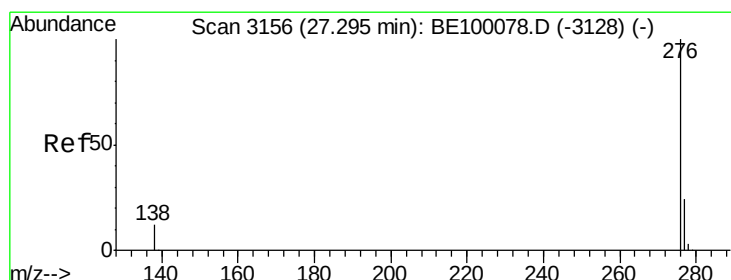
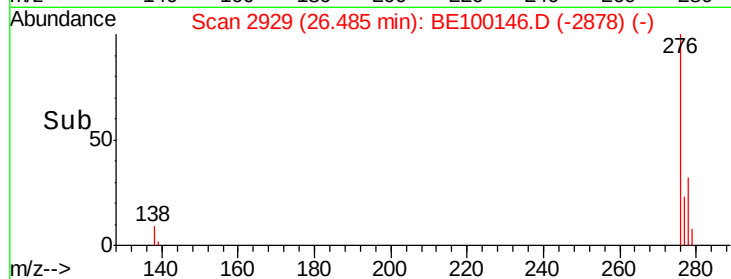
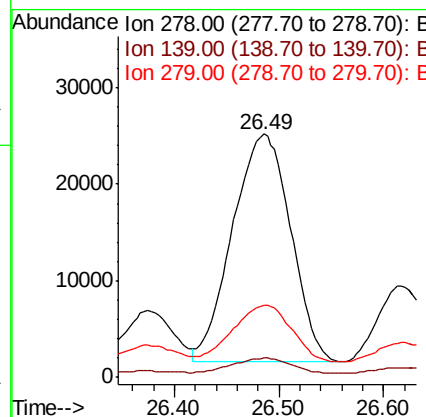
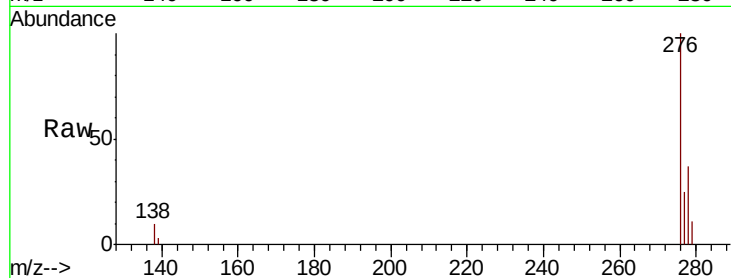
#38
Dibenzo(a,h)anthracene
Concen: 2.280 ng
RT: 26.49 min Scan# 2929
Delta R.T. -0.02 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Instrument :
BNA_E
ClientSampleId :
EXT-084-SW156-061319

Tot Ion	Ratio	Lower	Upper
278	100		
139	8.0	9.0	13.6#
279	29.5	21.4	32.0

Manual Integrations
APPROVED

mohammad
6/25/2019 3:21:27 PM



#39
Benzo(g,h,i)perylene
Concen: 7.558 ng
RT: 27.29 min Scan# 3156
Delta R.T. 0.00 min
Lab File: BE100146.D
Acq: 21 Jun 2019 21:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.3	30.5
138	9.5	11.3	16.9#

