

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100329.D
 Acq On : 3 Jul 2019 15:22
 Operator : JU/SJ
 Sample : K3445-17DL 20X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW077-061719DL

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:53:51 AM

Quant Time: Jul 04 01:14:25 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	529	0.40	ng	0.00
7) Naphthalene-d8	10.44	136	1995	0.40	ng	0.00
13) Acenaphthene-d10	14.31	164	1857	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5366	0.40	ng	0.00
27) Chrysene-d12	21.24	240	6516	0.40	ng	0.00
34) Perylene-d12	23.67	264	8056	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	39	0.03	ng	-0.01
5) Phenol-d6	0.00	99	0d	0.00	ng	
8) Nitrobenzene-d5	0.00	82	0d	0.00	ng	
11) 2-Methylnaphthalene-d10	12.08	152	72	0.02	ng	0.03
14) 2,4,6-Tribromophenol	15.86	330	10	0.01	ng	0.04
15) 2-Fluorobiphenyl	12.96	172	124	0.02	ng	0.01
25) Fluoranthene-d10	19.09	212	1146	0.01	ng	0.00
29) Terphenyl-d14	19.70	244	1720	0.13	ng	0.00

Target Compounds						Qvalue
9) Naphthalene	10.48	128	737	0.033	ng	# 71
12) 2-Methylnaphthalene	12.15	142	89	0.023	ng	# 75
16) Acenaphthylene	14.04	152	1771	0.199	ng	99
18) Fluorene	15.37	166	292	0.039	ng	# 84
23) Phenanthrene	17.09	178	6436	0.495	ng	98
24) Anthracene	17.20	178	1171	0.100	ng	# 94
26) Fluoranthene	19.12	202	19660	0.949	ng	99
28) Pyrene	19.48	202	31376	1.819	ng	98
30) Benzo(a)anthracene	21.22	228	13198	0.616	ng	# 92
31) Chrysene	21.28	228	15413	0.716	ng	94
32) Bis(2-ethylhexyl)phthalate	21.15	149	2848	0.036	ng	# 97
33) Indeno(1,2,3-cd)pyrene	26.22	276	9586	0.337	ng	# 96
35) Benzo(b)fluoranthene	22.92	252	14706	0.673	ng	98
36) Benzo(k)fluoranthene	22.97	252	5461m	0.224	ng	
37) Benzo(a)pyrene	23.56	252	12400m	0.566	ng	
38) Dibenzo(a,h)anthracene	26.24	278	1899	0.083	ng	# 59
39) Benzo(a,h,i)perylene	27.01	276	11986	0.510	ng	98

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

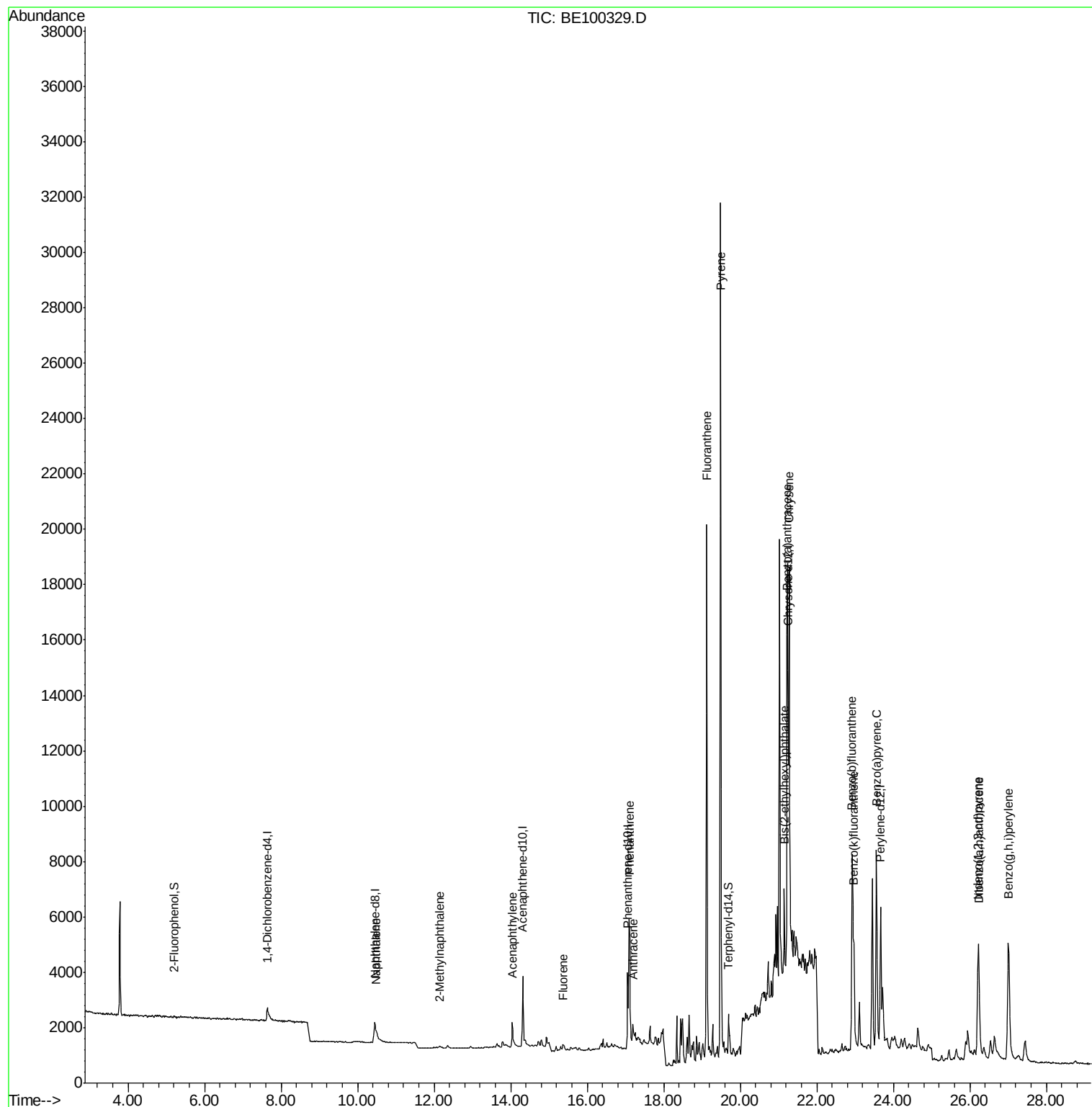
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
Data File : BE100329.D
Acq On : 3 Jul 2019 15:22
Operator : JU/SJ
Sample : K3445-17DL 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

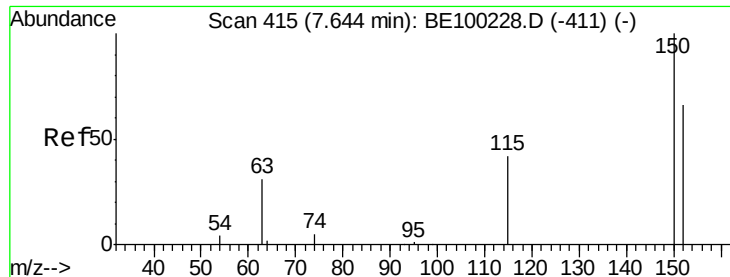
Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:51 AM

Quant Time: Jul 04 01:14:25 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





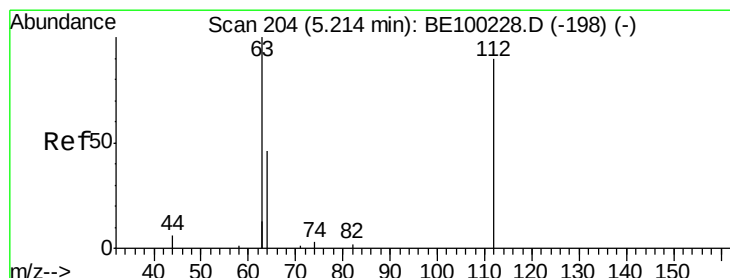
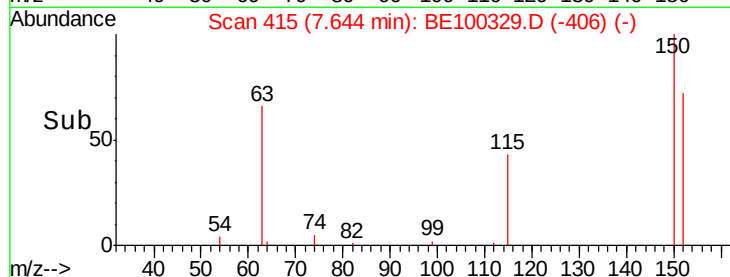
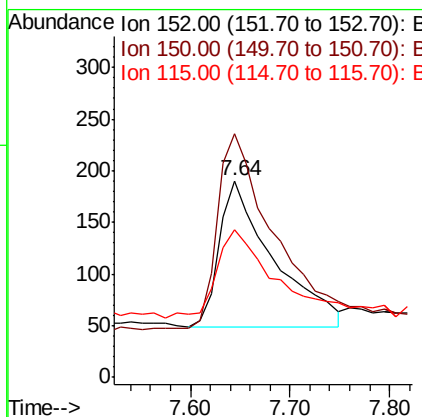
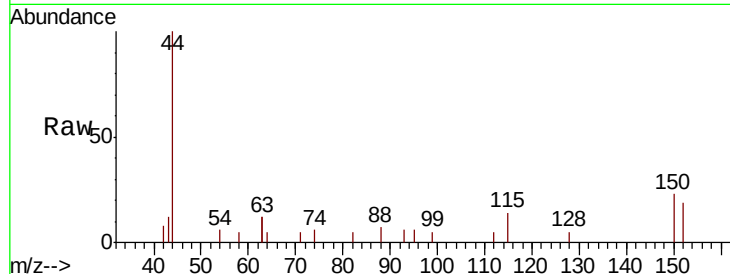
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.64 min Scan# 415
 Delta R.T. 0.00 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	124.2	114.5	171.7
115	75.3	57.1	85.7

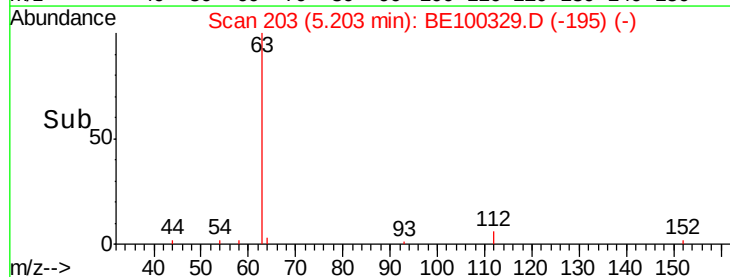
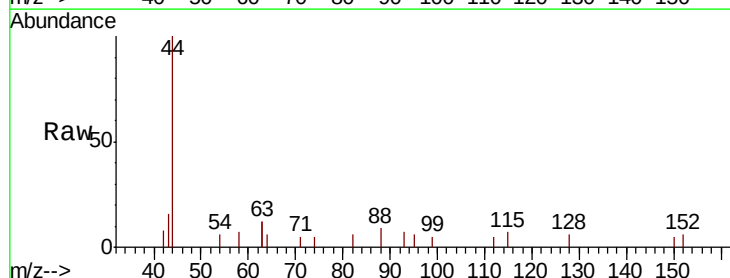
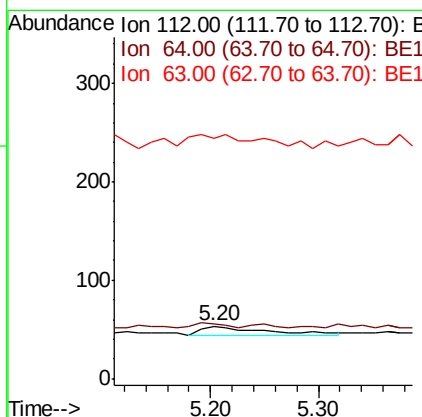
Manual Integrations
 APPROVED

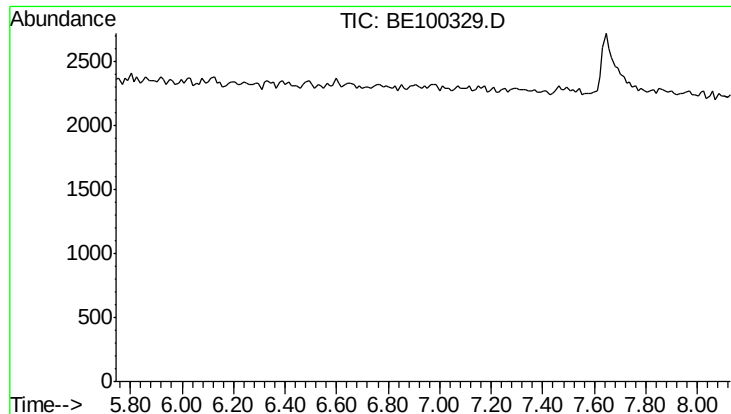
mohammad
 7/5/2019 8:53:51 AM



#4
 2-Fluorophenol
 Concen: 0.029 ng
 RT: 5.20 min Scan# 203
 Delta R.T. -0.01 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	28.2	39.4	59.0#
63	184.6	104.5	156.7#





#5

Phenol-d6

Concen: 0.000 ng

Expected RT: 6.84 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Tot Ion: 99

Sig Exp Ratio

99 100

42 14.0

71 46.5

Instrument :

BNA_E

ClientSampleId :

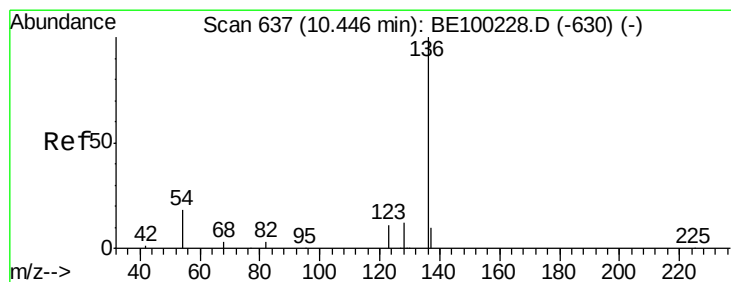
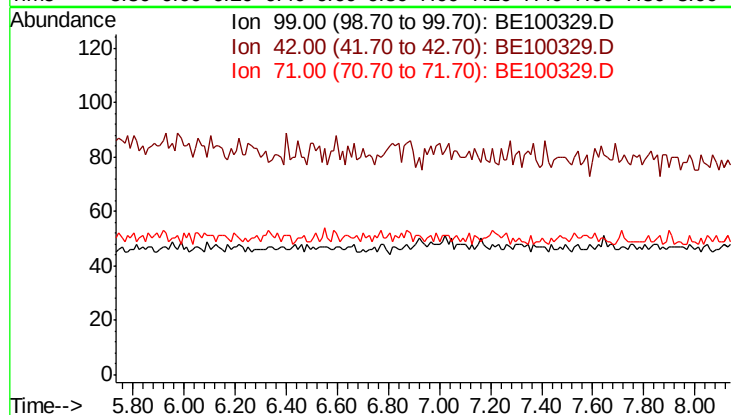
EXT-001-SW077-061719DL

Manual Integrations

APPROVED

mohammad

7/5/2019 8:53:51 AM



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.44 min Scan# 637

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Tgt Ion:136 Resp: 1995

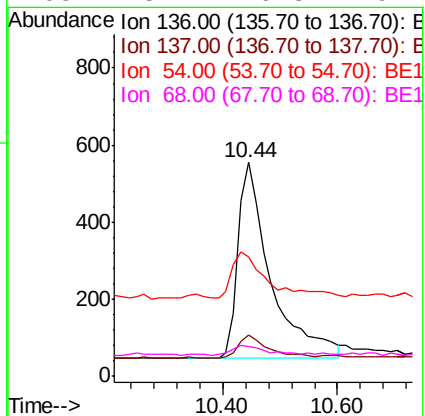
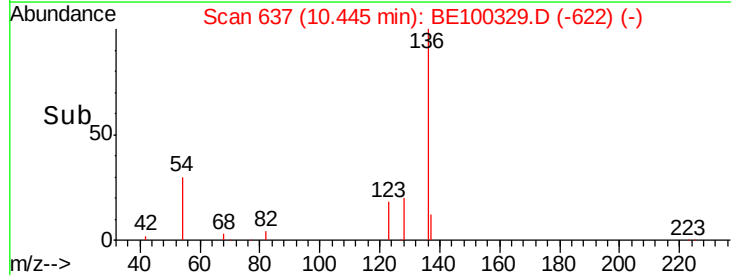
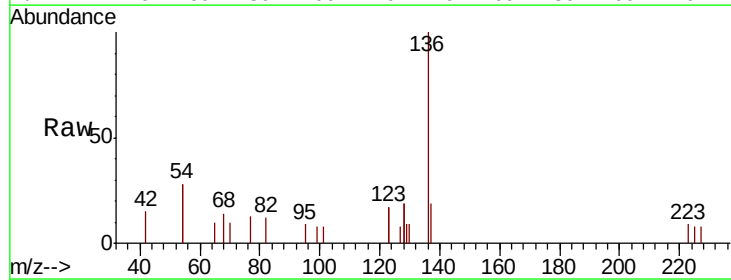
Ion Ratio Lower Upper

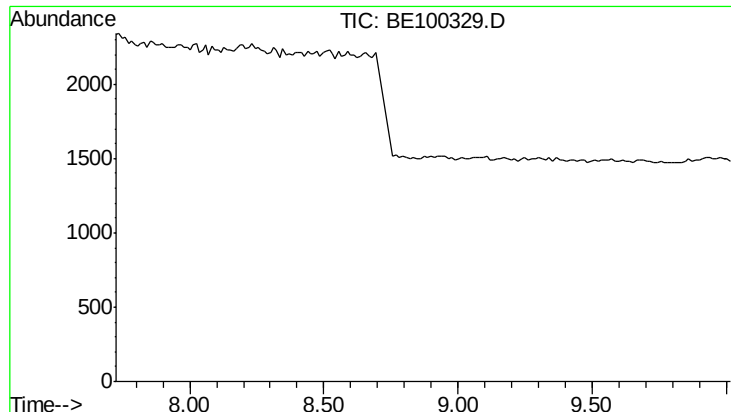
136 100

137 19.1 11.8 17.8#

54 55.5 27.7 41.5#

68 13.7 6.8 10.2#





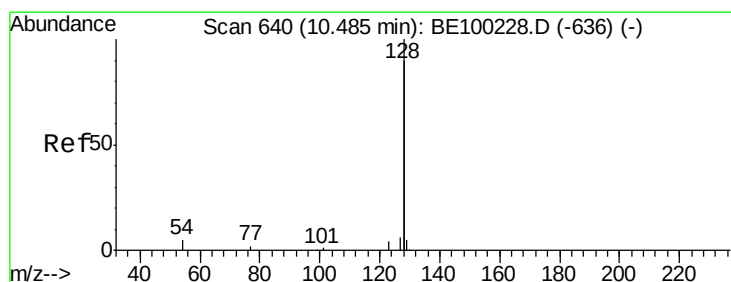
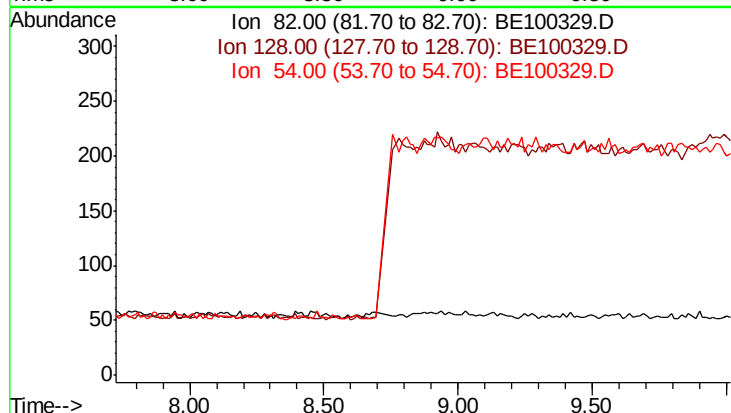
#8
 Nitrobenzene-d5
 Concen: 0.000 ng
 Expected RT: 8.82 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW077-061719DL

Tot Ion	82
Sig	Exp Ratio
82	100
128	176.1
54	182.7

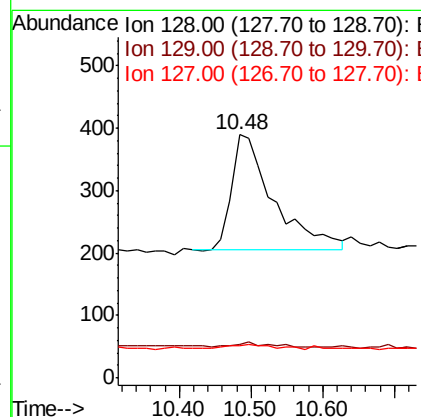
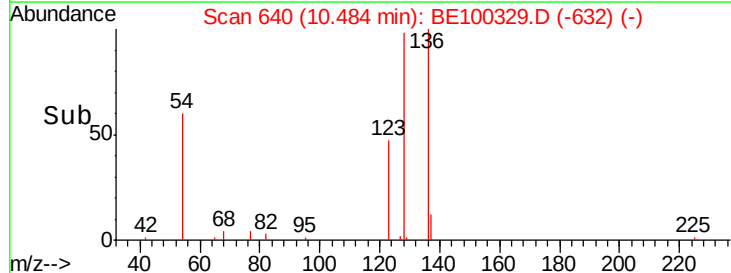
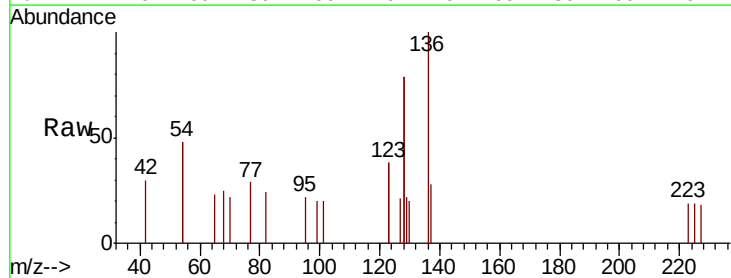
Manual Integrations
 APPROVED

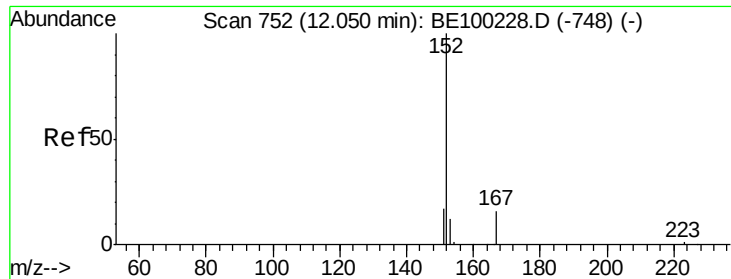
mohammad
 7/5/2019 8:53:51 AM



#9
 Naphthalene
 Concen: 0.033 ng
 RT: 10.48 min Scan# 640
 Delta R.T. -0.00 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

Tgt Ion	128	Resp	737
Ion	Ratio	Lower	Upper
128	100		
129	13.8	3.0	4.6#
127	13.3	3.5	5.3#





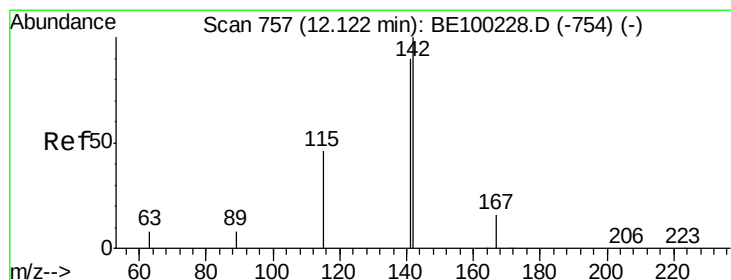
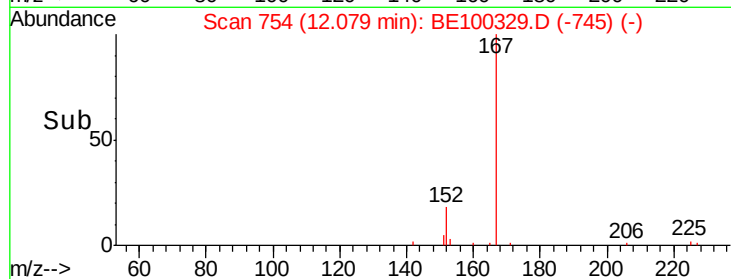
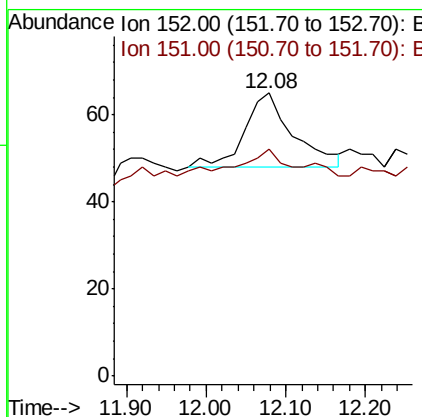
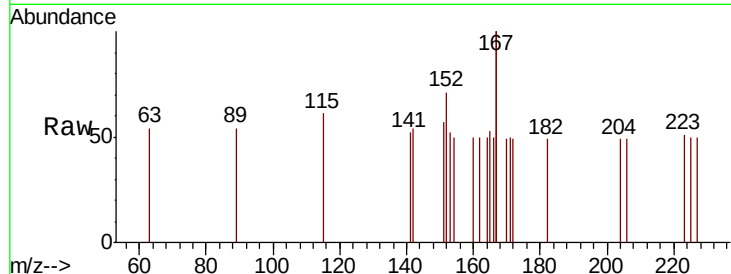
#11
2-Methylnaphthalene-d10
Concen: 0.019 ng
RT: 12.08 min Scan# 754
Delta R.T. 0.03 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion:152 Resp: 72
Ion Ratio Lower Upper
152 100
151 38.9 15.1 22.7#

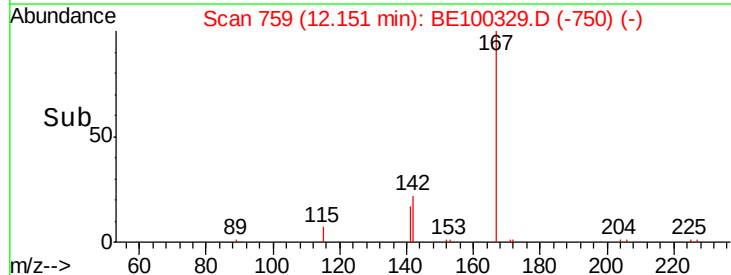
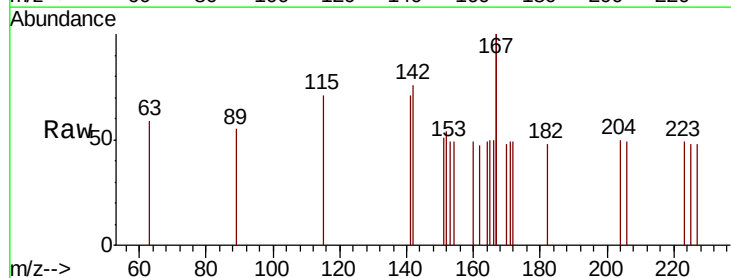
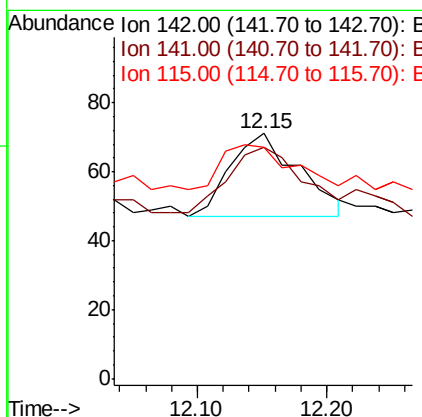
Manual Integrations
APPROVED

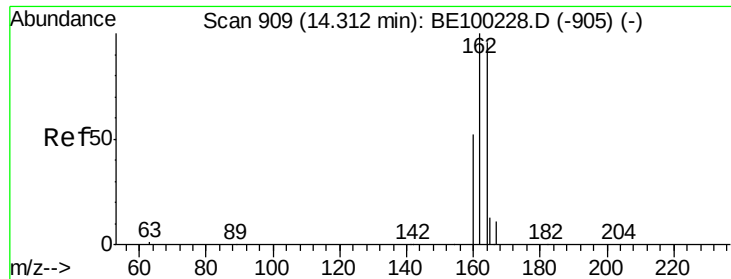
mohammad
7/5/2019 8:53:51 AM



#12
2-Methylnaphthalene
Concen: 0.023 ng
RT: 12.15 min Scan# 759
Delta R.T. 0.03 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion:142 Resp: 89
Ion Ratio Lower Upper
142 100
141 94.4 72.4 108.6
115 94.4 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: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

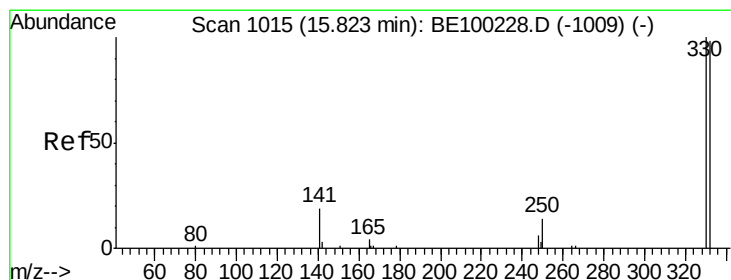
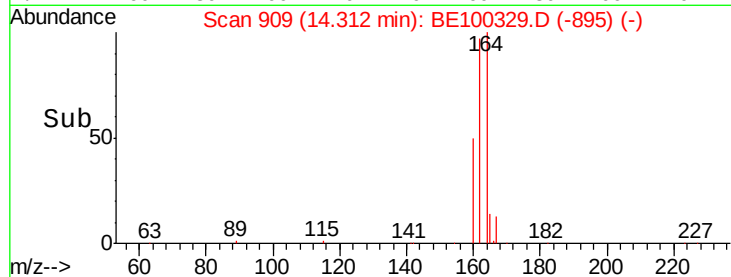
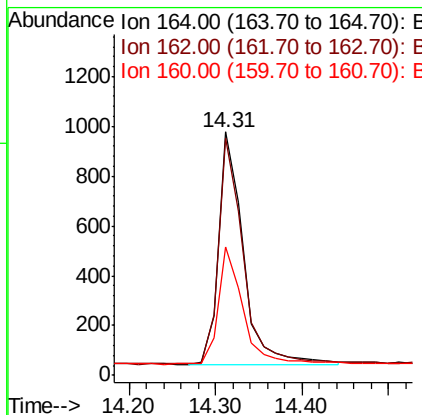
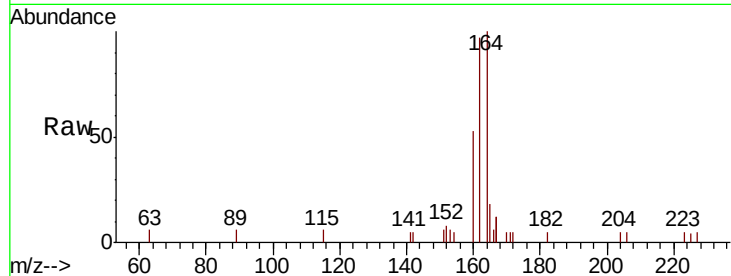
ClientSampleId :

EXT-001-SW077-061719DL

Tot Ion:	164	Resp:	1857
Ion	Ratio	Lower	Upper
164	100		
162	97.4	83.4	125.0
160	52.7	45.0	67.6

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:51 AM



#14

2,4,6-Tribromophenol

Concen: 0.008 ng

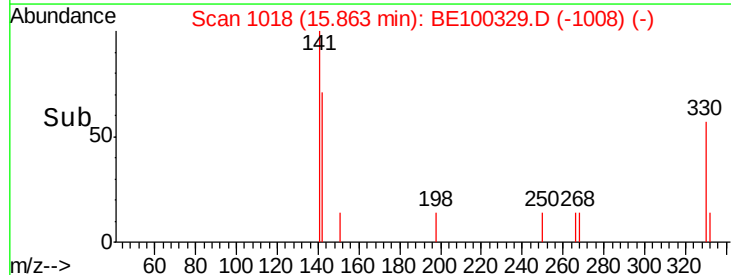
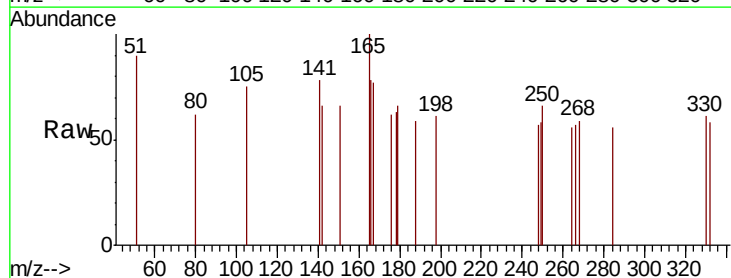
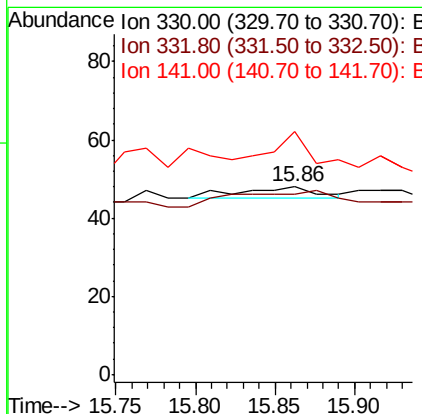
RT: 15.86 min Scan# 1018

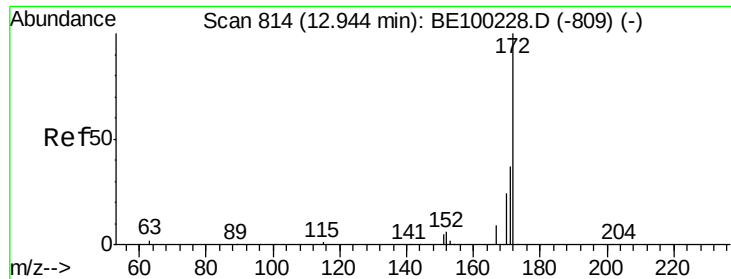
Delta R.T. 0.04 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Tgt Ion:	330	Resp:	10
Ion	Ratio	Lower	Upper
330	100		
332	180.0	77.0	115.4#
141	150.0	22.0	33.0#





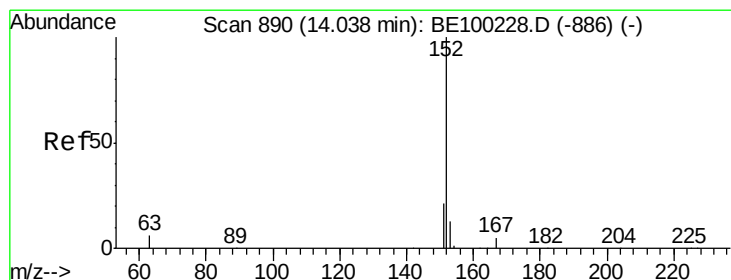
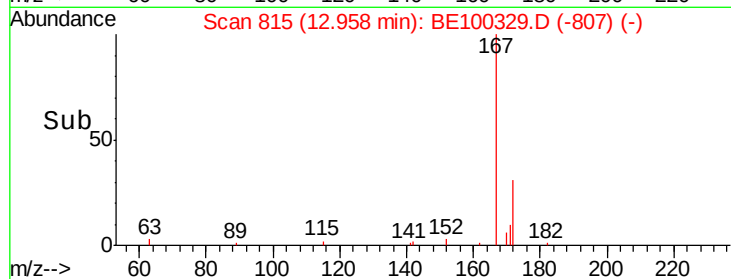
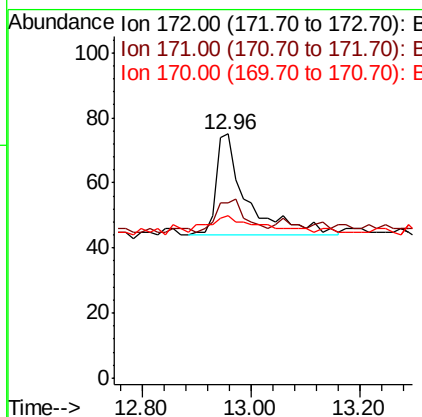
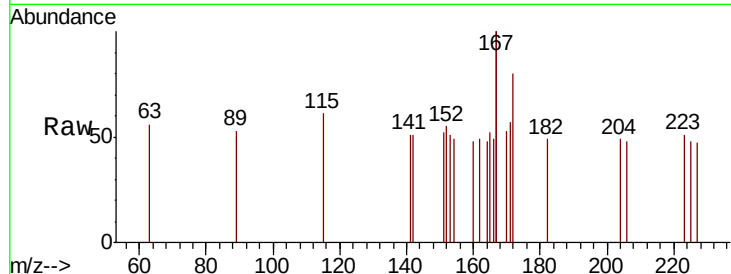
#15
2-Fluorobiphenyl
Concen: 0.017 ng
RT: 12.96 min Scan# 815
Delta R.T. 0.01 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	72.0	31.9	47.9#
170	66.7	22.2	33.2#

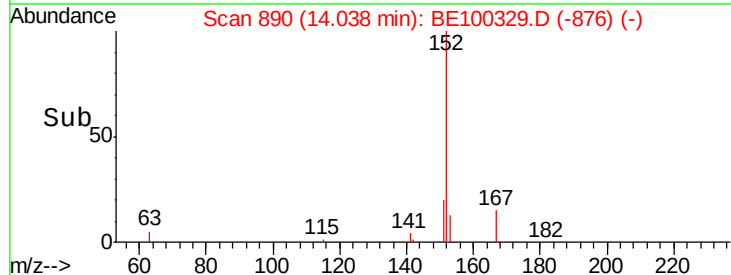
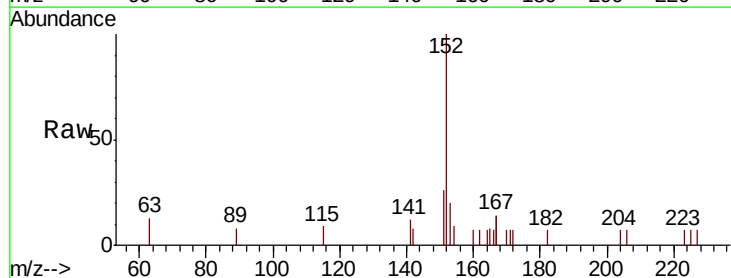
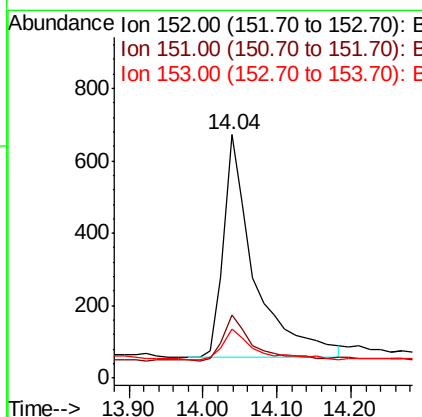
Manual Integrations
APPROVED

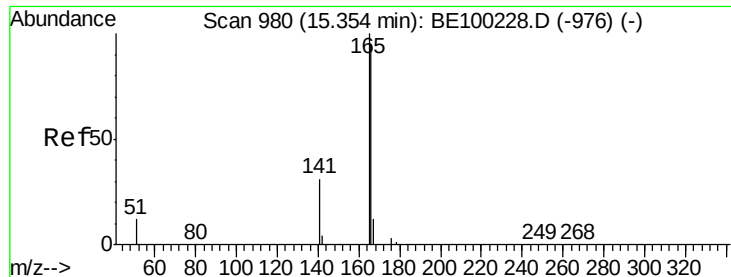
mohammad
7/5/2019 8:53:51 AM



#16
Acenaphthylene
Concen: 0.199 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0
153	13.8	10.5	15.7





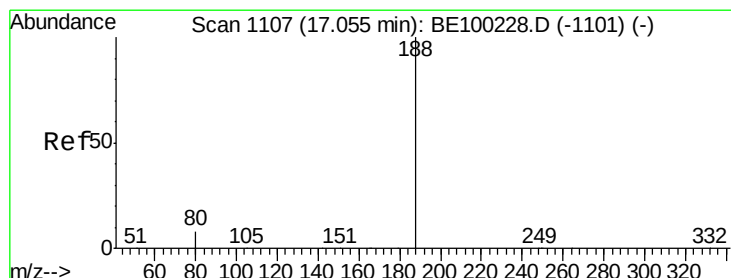
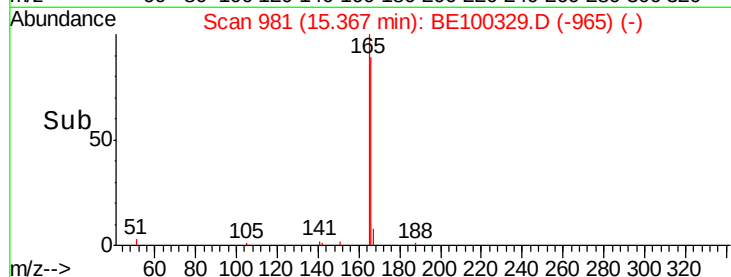
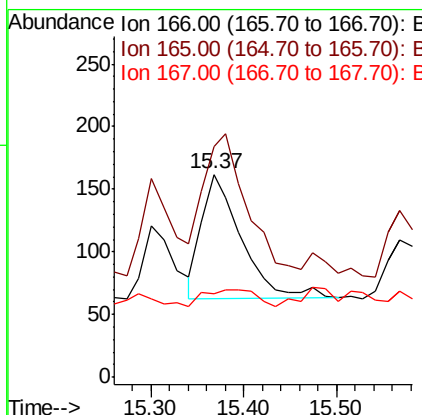
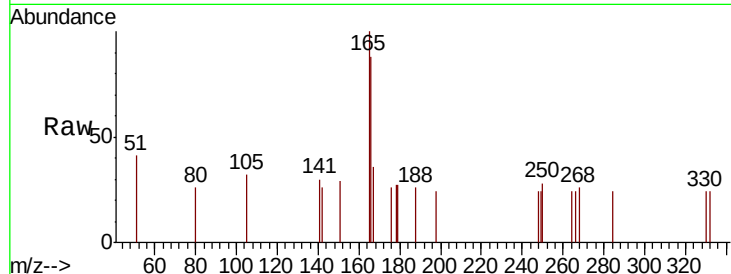
#18
Fluorene
Concen: 0.039 ng
RT: 15.37 min Scan# 981
Delta R.T. 0.01 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	117.5	81.1	121.7
167	18.8	10.7	16.1

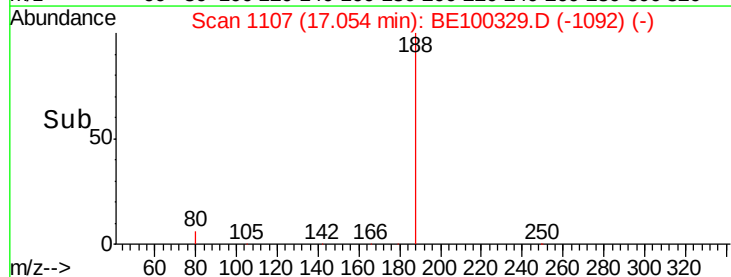
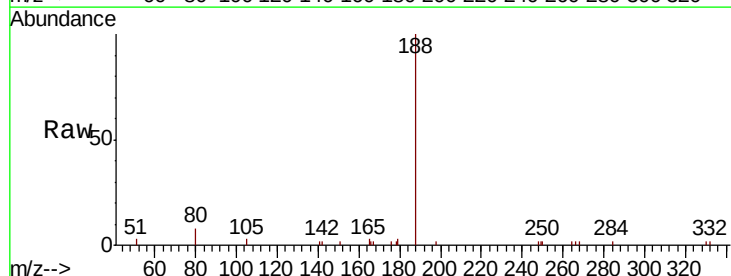
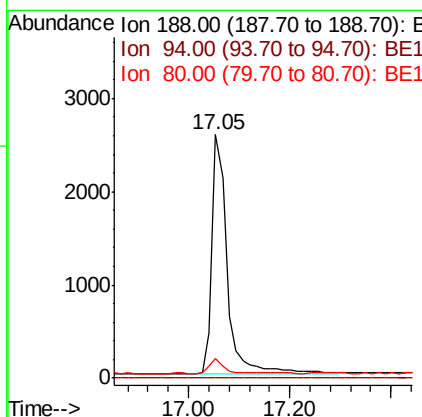
Manual Integrations
APPROVED

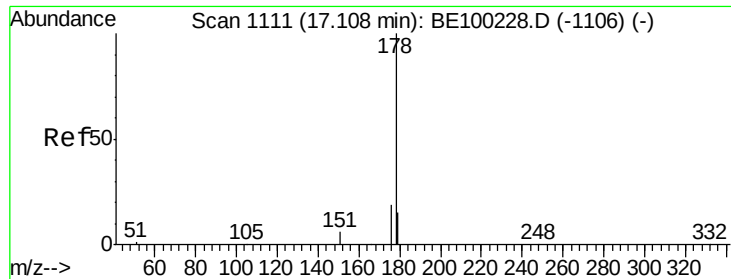
mohammad
7/5/2019 8:53:51 AM



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	7.6	11.4





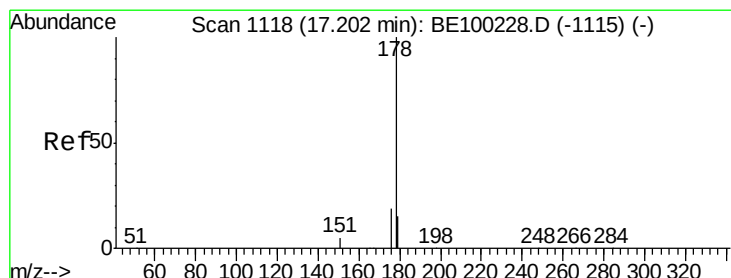
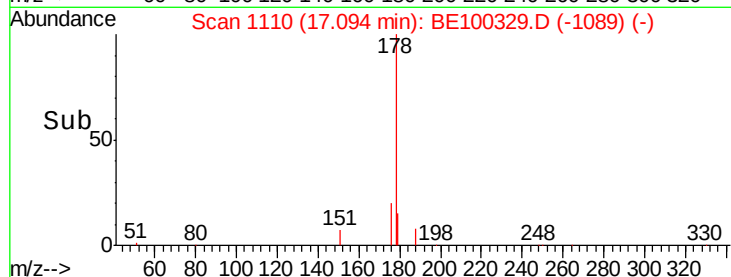
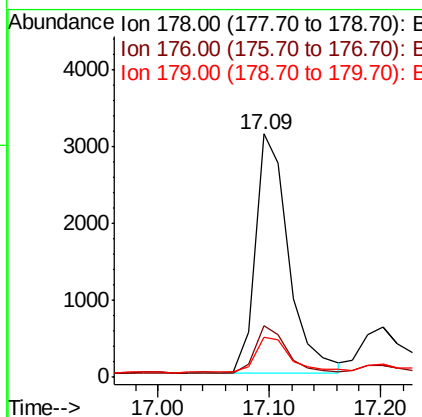
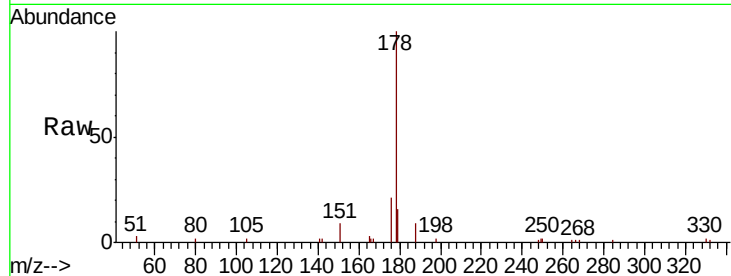
#23
Phenanthrene
Concen: 0.495 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	16.7	12.2	18.2

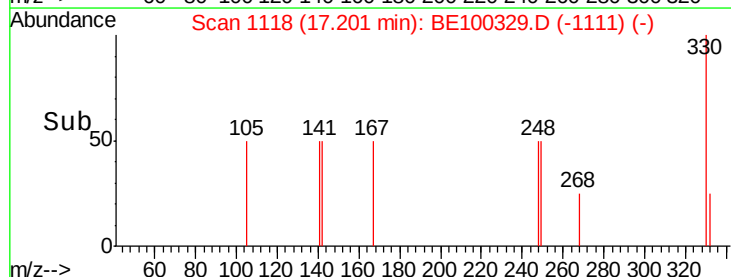
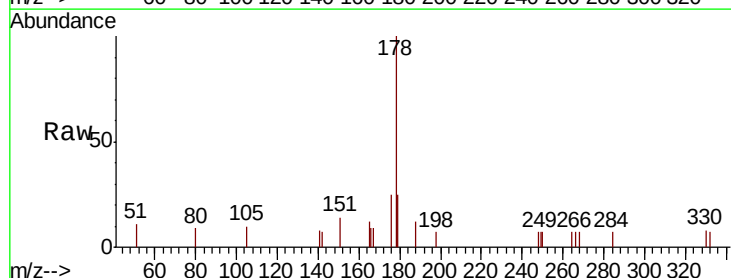
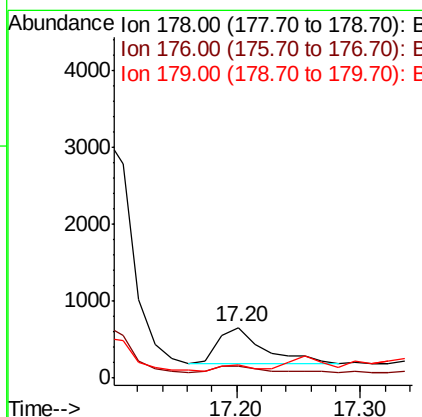
Manual Integrations
APPROVED

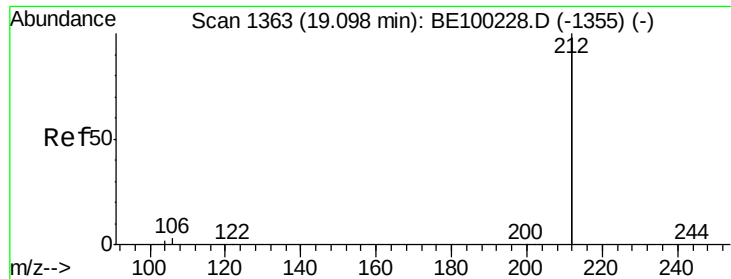
mohammad
7/5/2019 8:53:51 AM



#24
Anthracene
Concen: 0.100 ng
RT: 17.20 min Scan# 1118
Delta R.T. -0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	9.7	12.2	18.2





#25

Fluoranthene-d10

Concen: 0.015 ng

RT: 19.09 min Scan# 1362

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

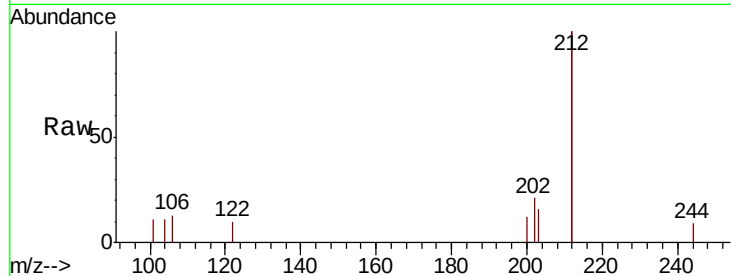
ClientSampleId :

EXT-001-SW077-061719DL

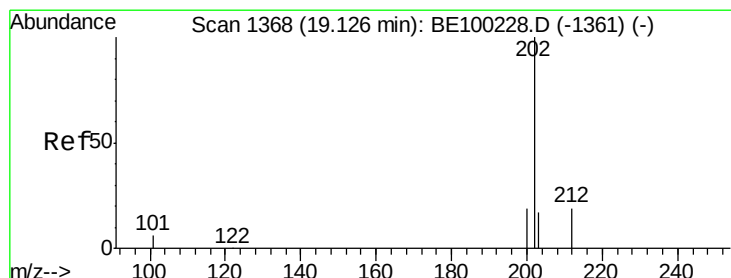
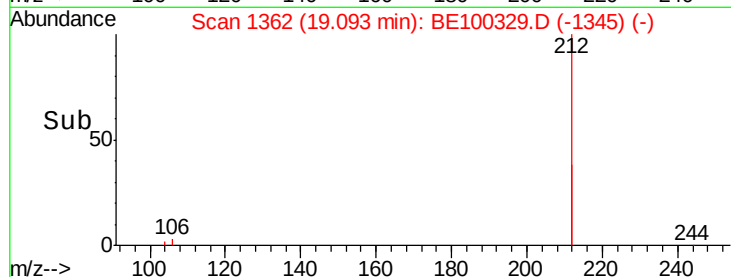
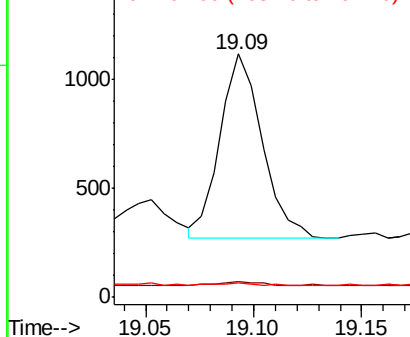
Tot Ion:	212	Resp:	1146
Ion Ratio	Lower	Upper	
212	100		
106	2.0	1.3	1.9#
104	1.7	0.8	1.2#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:51 AM



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: 0.949 ng

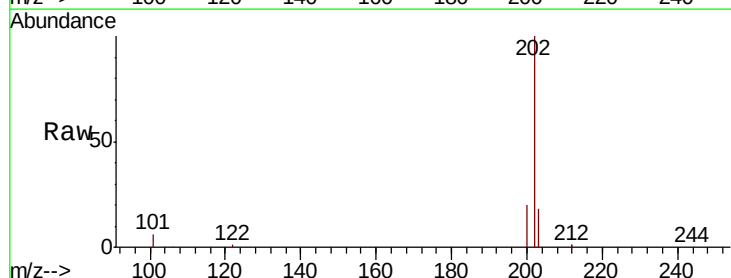
RT: 19.12 min Scan# 1367

Delta R.T. -0.00 min

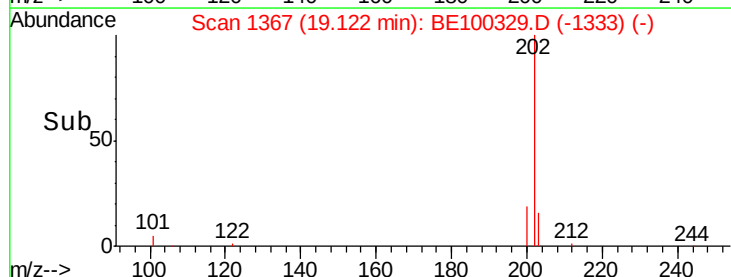
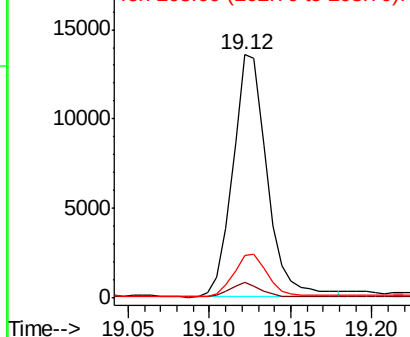
Lab File: BE100329.D

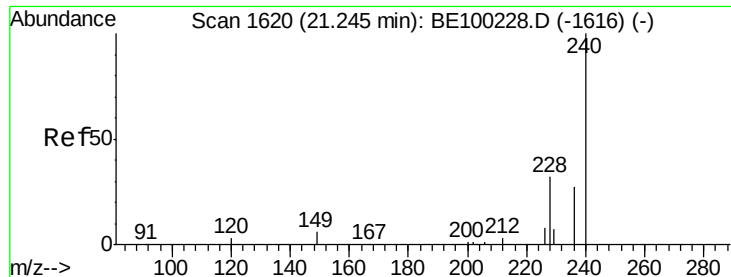
Acq: 3 Jul 2019 15:22

Tgt Ion:	202	Resp:	19660
Ion Ratio	Lower	Upper	
202	100		
101	5.7	4.6	7.0
203	17.7	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





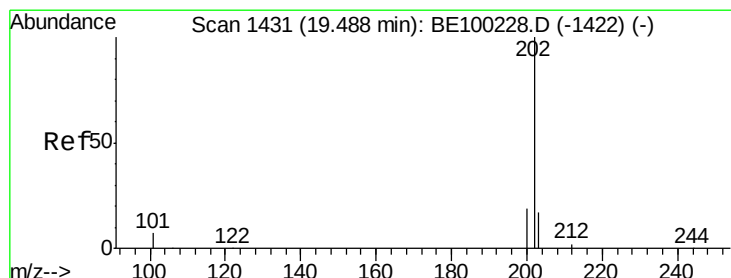
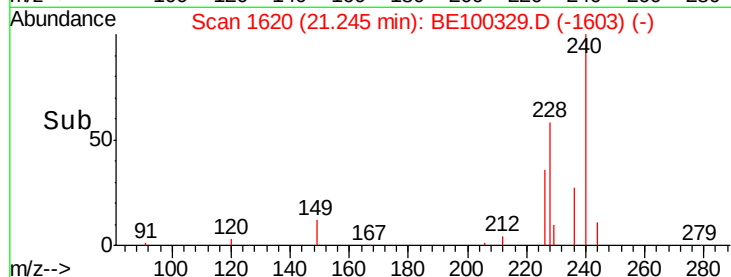
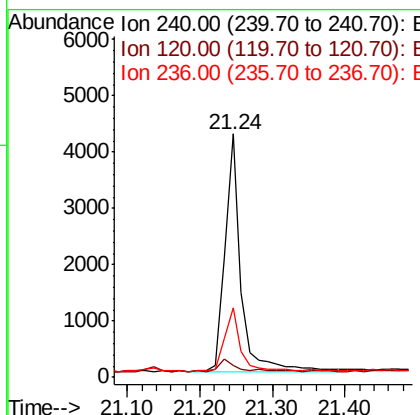
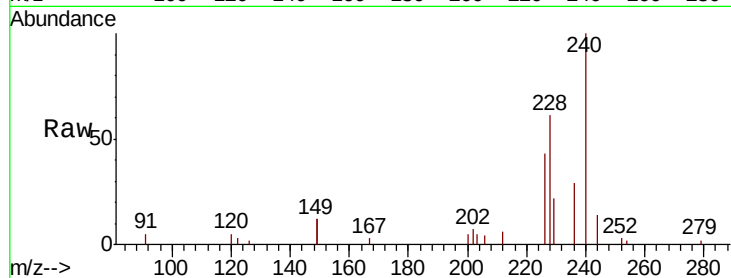
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.24 min Scan# 1620
Delta R.T. 0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	5.0	3.3	4.9#
236	28.7	22.6	34.0

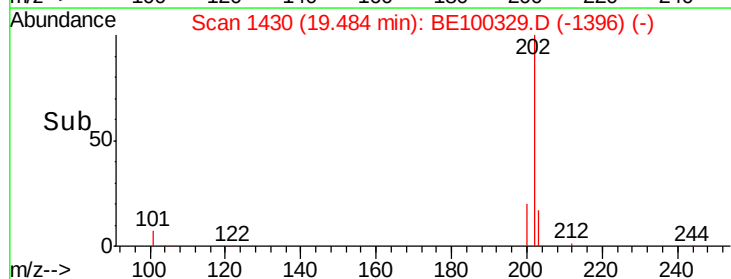
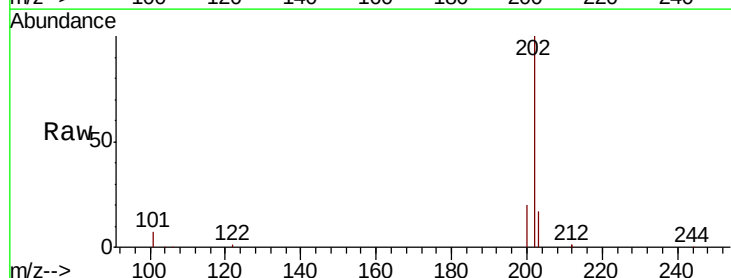
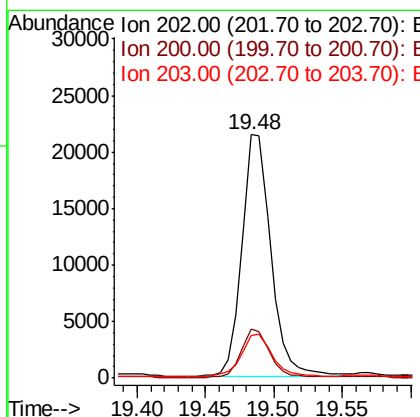
Manual Integrations
APPROVED

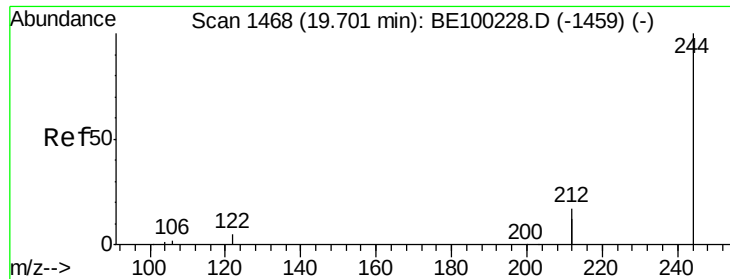
mohammad
7/5/2019 8:53:51 AM



#28
Pyrene
Concen: 1.819 ng
RT: 19.48 min Scan# 1430
Delta R.T. -0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.6	23.4
203	19.4	14.0	21.0





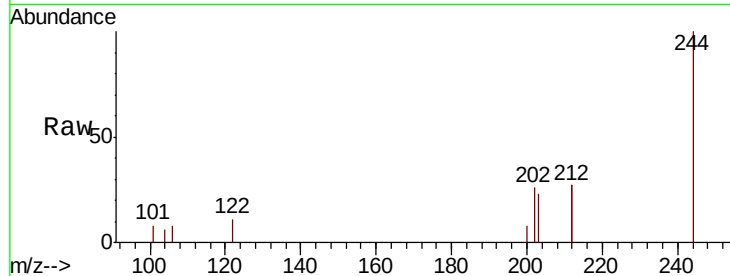
#29
 Terphenyl-d14
 Concen: 0.127 ng
 RT: 19.70 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	54.5	27.3	40.9#
122	11.1	4.7	7.1#

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:53:51 AM

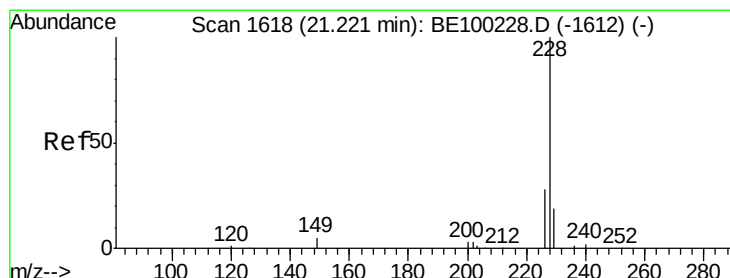
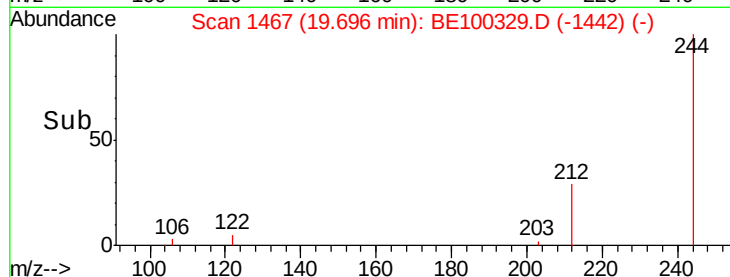
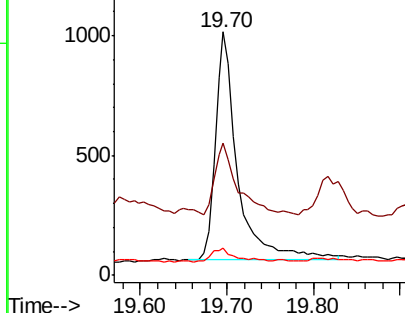


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30
 Benzo(a)anthracene
 Concen: 0.616 ng
 RT: 21.22 min Scan# 1618
 Delta R.T. 0.00 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

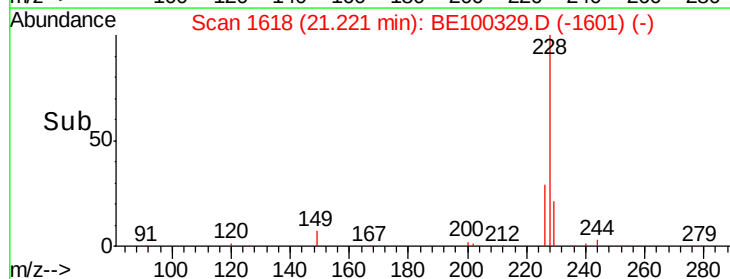
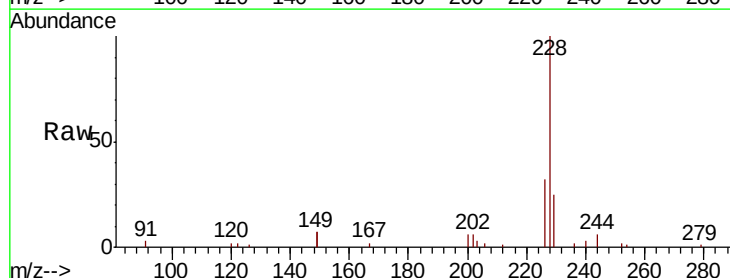
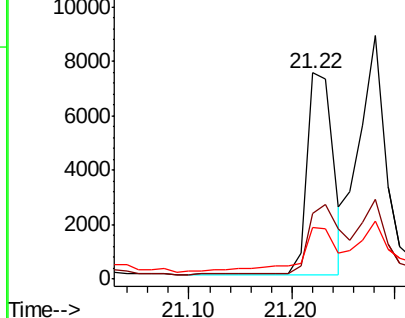
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	23.2	34.8
229	24.9	15.7	23.5#

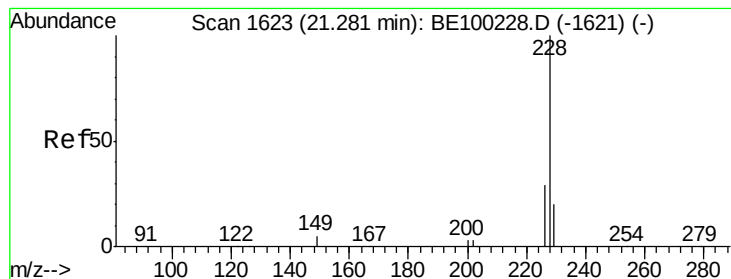
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.716 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

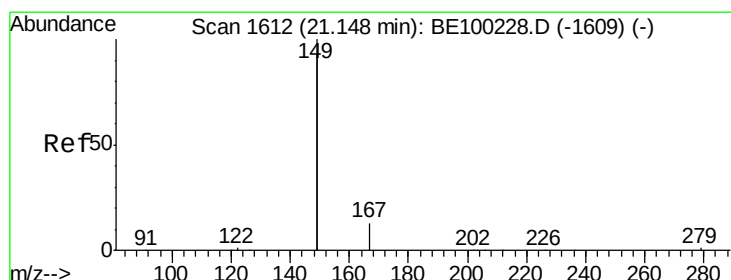
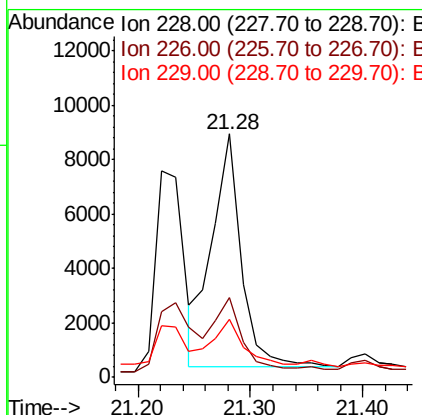
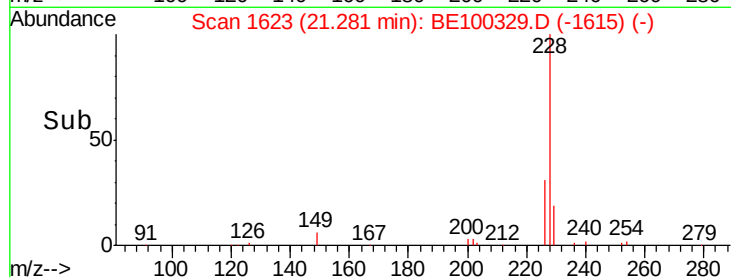
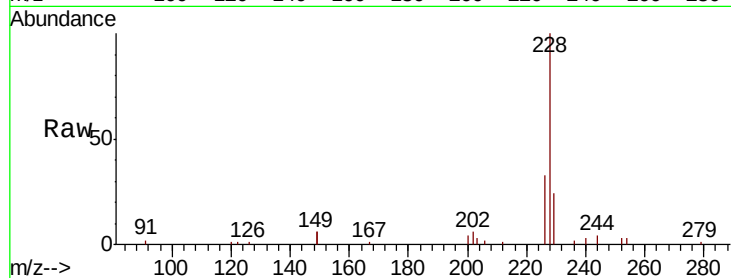
ClientSampleId :

EXT-001-SW077-061719DL

Tot Ion:	228	Resp:	15413
Ion	Ratio	Lower	Upper
228	100		
226	32.6	23.9	35.9
229	23.7	16.5	24.7

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:51 AM



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.036 ng

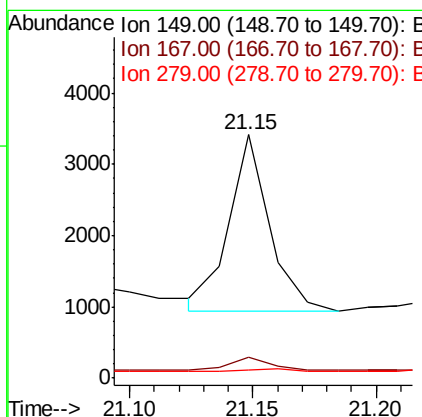
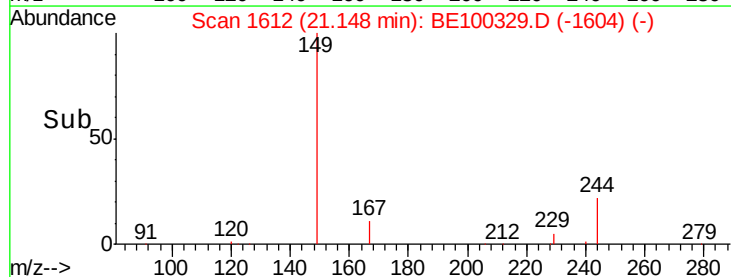
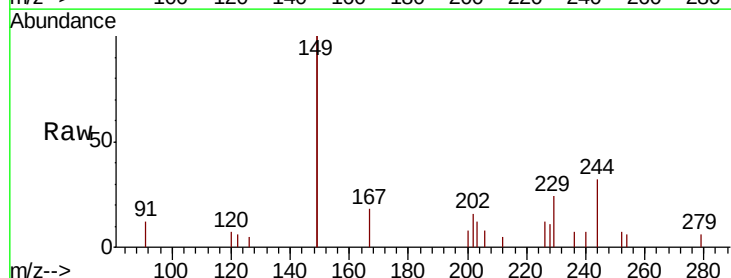
RT: 21.15 min Scan# 1612

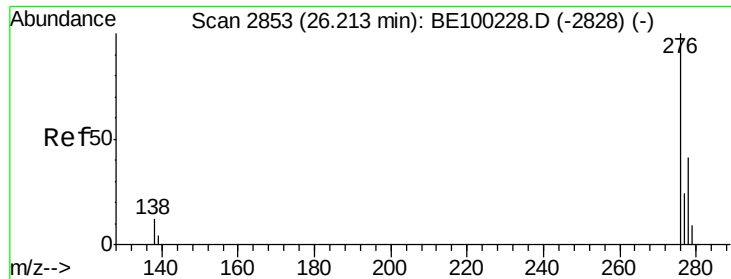
Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Tgt Ion:	149	Resp:	2848
Ion	Ratio	Lower	Upper
149	100		
167	8.4	5.8	8.8
279	2.4	1.1	1.7#





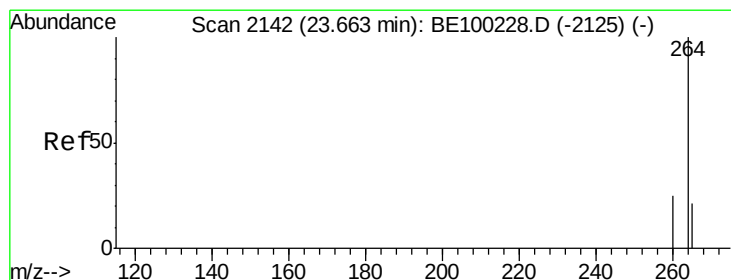
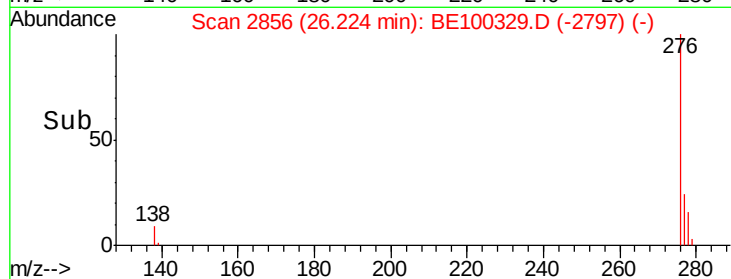
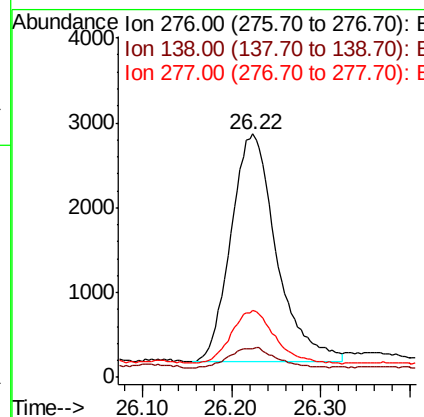
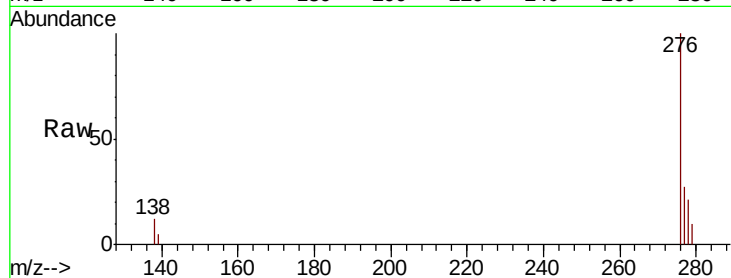
#33
Indeno(1,2,3-cd)pyrene
Concen: 0.337 ng
RT: 26.22 min Scan# 2856
Delta R.T. 0.01 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	9.1	9.4	14.0#
277	22.4	19.2	28.8

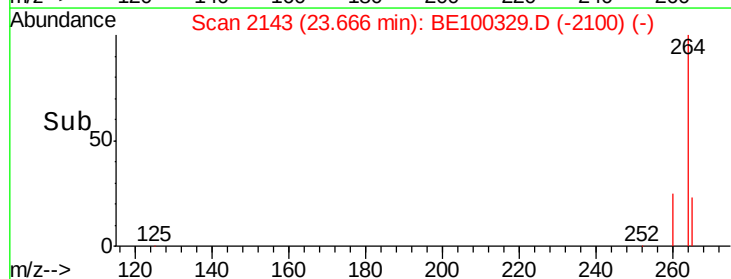
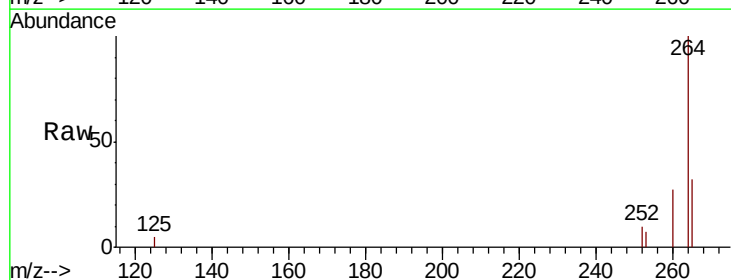
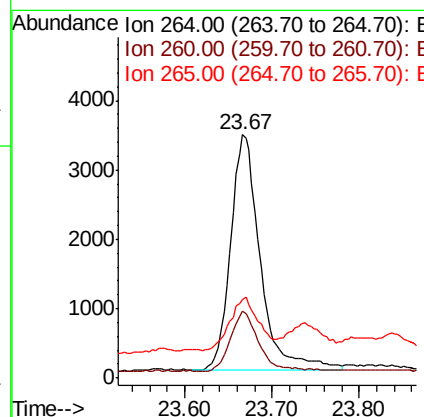
Manual Integrations
APPROVED

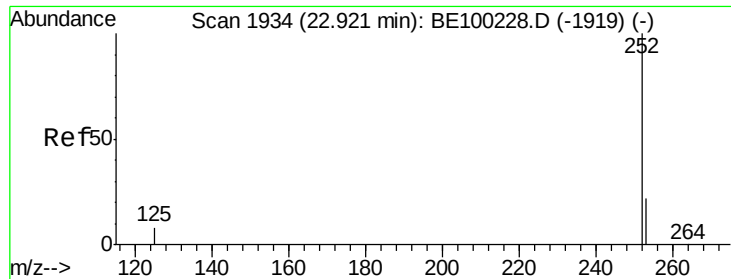
mohammad
7/5/2019 8:53:51 AM



#34
Perylene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.4	20.8	31.2
265	32.1	21.8	32.6





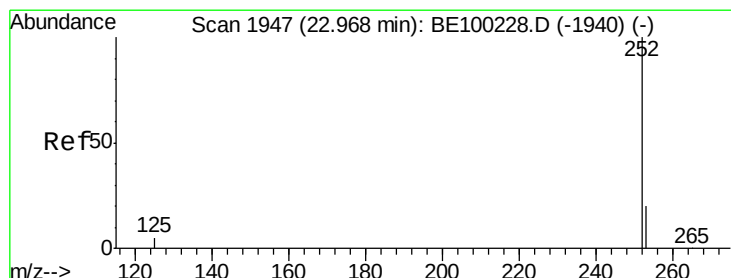
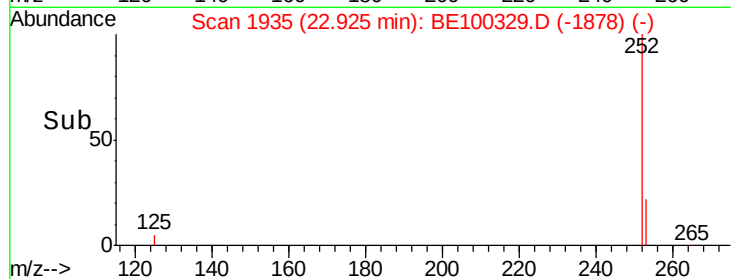
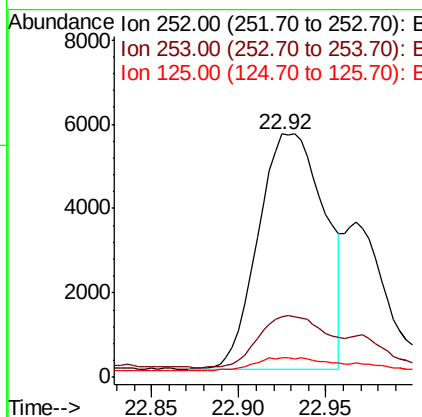
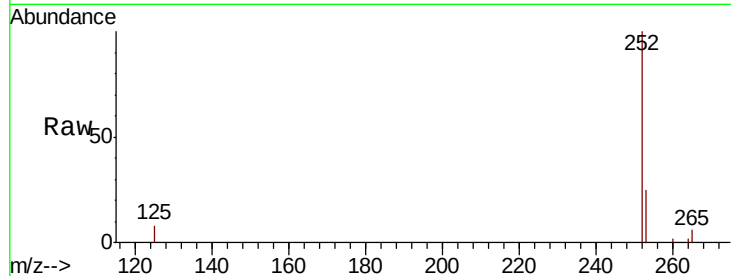
#35
Benzo(b)fluoranthene
Concen: 0.673 ng
RT: 22.92 min Scan# 1935
Delta R.T. 0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	19.2	28.8
125	8.2	7.4	11.0

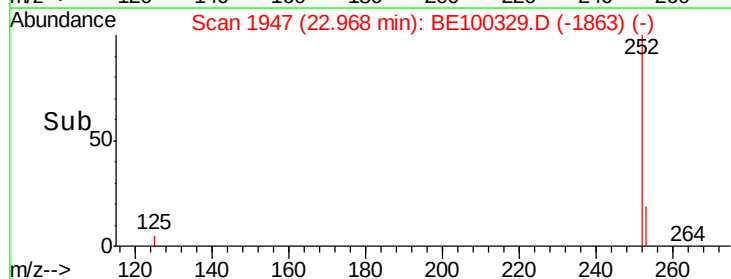
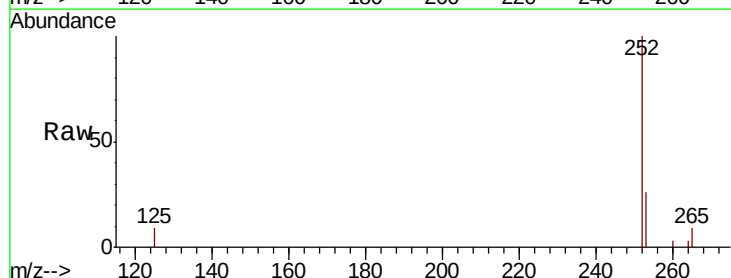
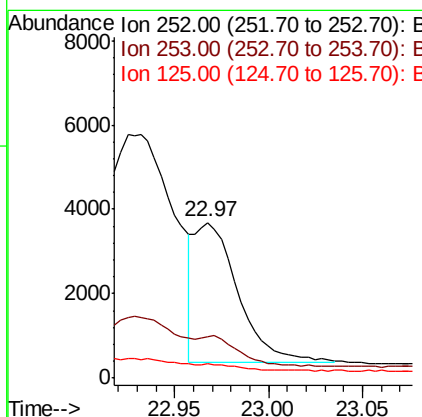
Manual Integrations
APPROVED

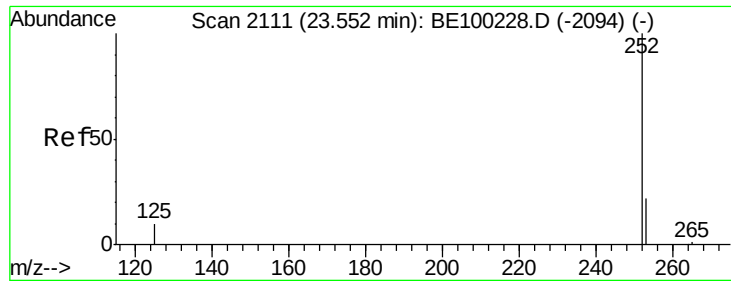
mohammad
7/5/2019 8:53:51 AM



#36
Benzo(k)fluoranthene
Concen: 0.224 ng m
RT: 22.97 min Scan# 1947
Delta R.T. -0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.5	17.9	26.9
125	9.0	5.0	7.4#





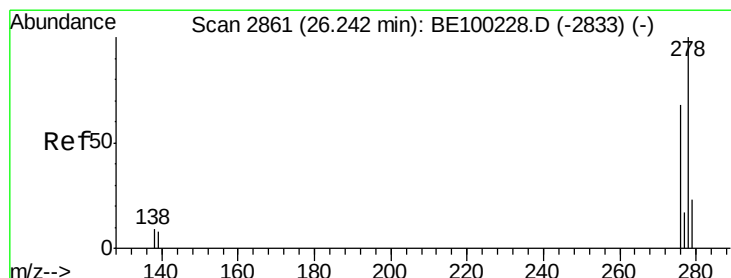
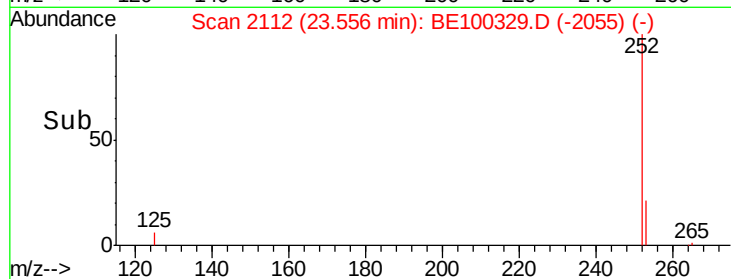
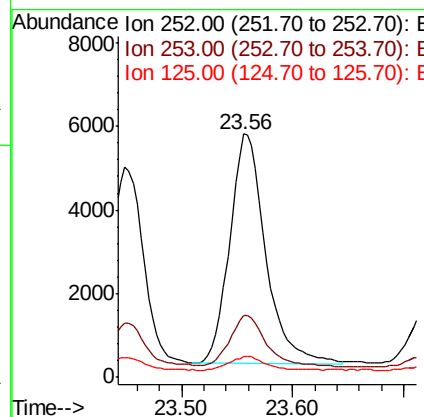
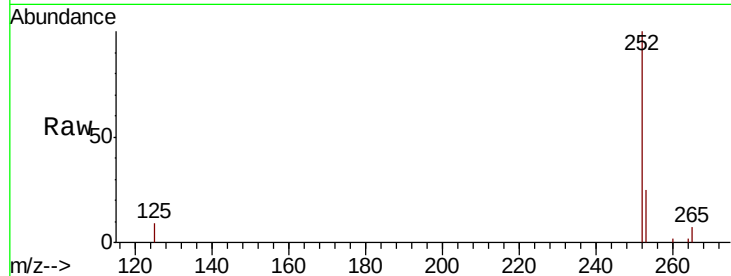
#37
Benzo(a)pyrene
Concen: 0.566 ng/mL
RT: 23.56 min Scan# 2112
Delta R.T. 0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.3	19.6	29.4
125	8.6	9.0	13.6

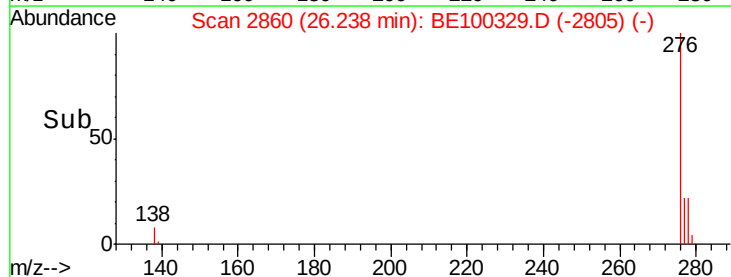
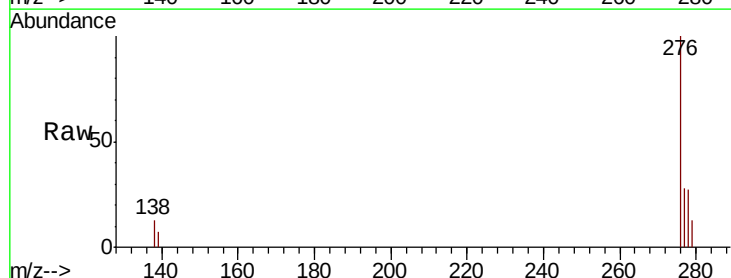
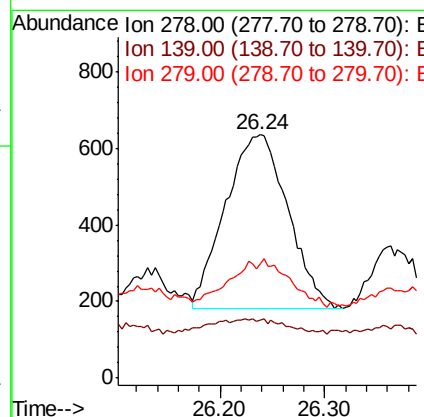
Manual Integrations
APPROVED

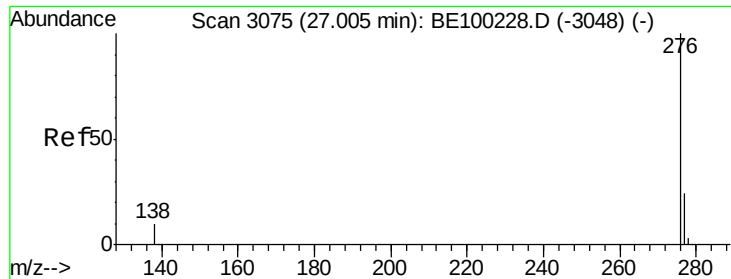
mohammad
7/5/2019 8:53:51 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.083 ng/mL
RT: 26.24 min Scan# 2860
Delta R.T. -0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.9	8.2	12.2
279	47.0	20.3	30.5





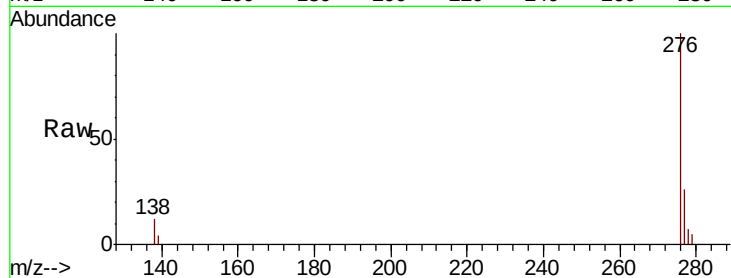
#39
 Benzo(a,h,i)perylene
 Concen: 0.510 ng
 RT: 27.01 min Scan# 3076
 Delta R.T. 0.00 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW077-061719DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.1	20.2	30.2
138	12.4	9.0	13.6

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:53:51 AM



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

