

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100327.D
 Acq On : 3 Jul 2019 14:11
 Operator : JU/SJ
 Sample : K3504-16
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW140-062019

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:53:44 AM

Quant Time: Jul 04 01:05:24 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	7.63	152	629	0.40	ng	-0.01
7) Naphthalene-d8	10.43	136	2230	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	1933	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	6270	0.40	ng	0.00
27) Chrysene-d12	21.25	240	8460	0.40	ng	0.00
34) Perylene-d12	23.67	264	10524	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.20	112	338	0.21	ng	-0.01
5) Phenol-d6	6.83	99	502	0.24	ng	-0.01
8) Nitrobenzene-d5	8.81	82	437	0.20	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	1102	0.26	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	438	0.32	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	1647	0.22	ng	-0.01
25) Fluoranthene-d10	19.09	212	19375	0.21	ng	0.00
29) Terphenyl-d14	19.69	244	5847	0.33	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.47	128	14553	0.592	ng	99
12) 2-Methylnaphthalene	12.11	142	3076	0.713	ng	99
16) Acenaphthylene	14.02	152	15898	1.714	ng	98
17) Acenaphthene	14.37	154	1287	0.245	ng	# 91
18) Fluorene	15.35	166	4353	0.560	ng	# 88
23) Phenanthrene	17.09	178	117909	7.759	ng	99
24) Anthracene	17.19	178	13656	0.998	ng	98
26) Fluoranthene	19.12	202	225553	9.318	ng	98
28) Pyrene	19.49	202	301374	13.455	ng	96
30) Benzo(a)anthracene	21.22	228	154481	5.554	ng	96
31) Chrysene	21.28	228	188215	6.738	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	32009	0.757	ng	100
33) Indeno(1,2,3-cd)pyrene	26.22	276	97981	2.652	ng	# 97
35) Benzo(b)fluoranthene	22.93	252	181631	6.366	ng	# 95
36) Benzo(k)fluoranthene	22.97	252	53689m	1.686	ng	
37) Benzo(a)pyrene	23.56	252	136409	4.770	ng	# 93
38) Dibenzo(a,h)anthracene	26.24	278	25192	0.844	ng	# 89
39) Benzo(a,h,i)perylene	27.01	276	113693	3.706	ng	98

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

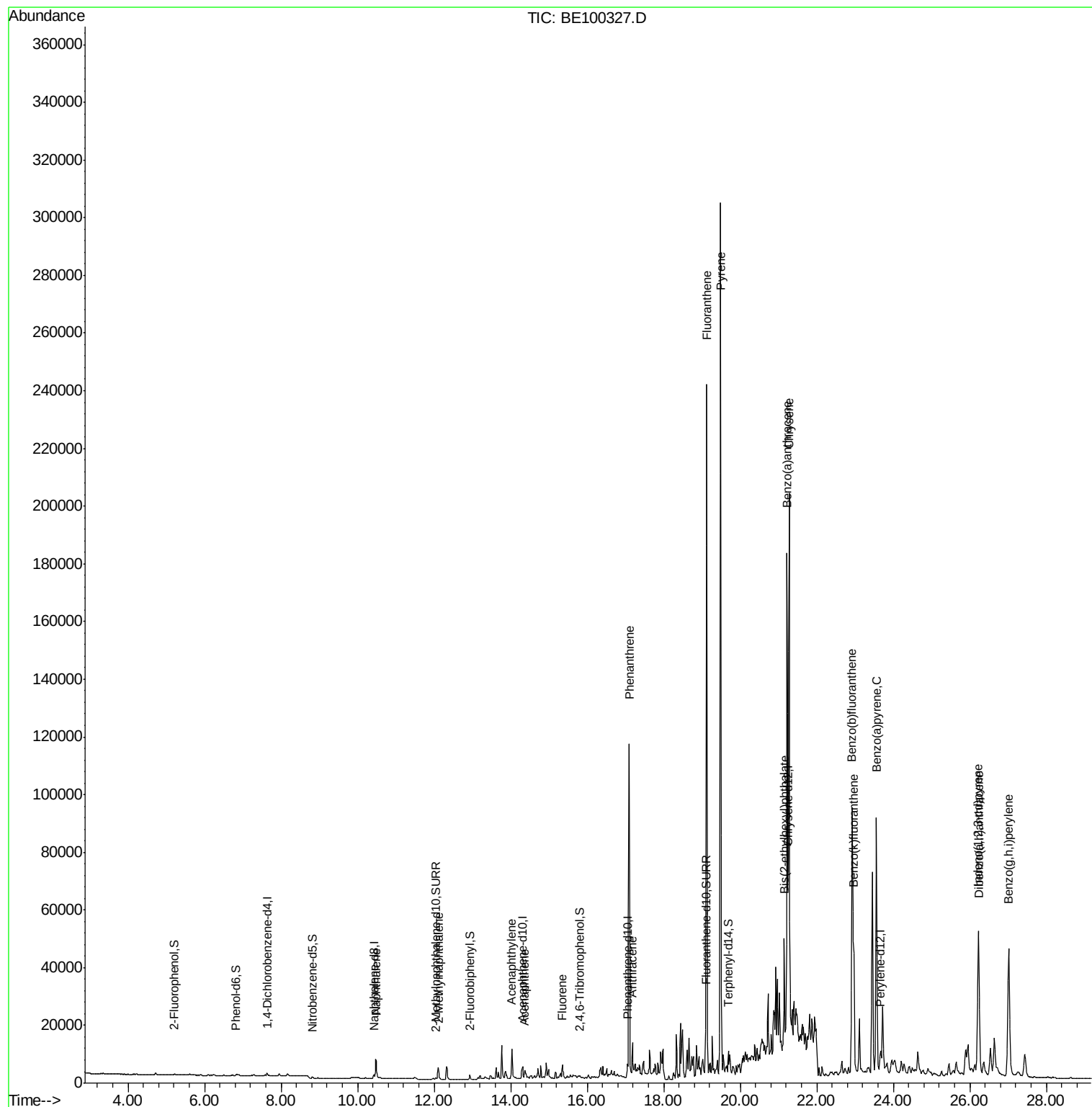
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
Data File : BE100327.D
Acq On : 3 Jul 2019 14:11
Operator : JU/SJ
Sample : K3504-16
Misc :
ALS Vial : 6 Sample Multiplier: 1

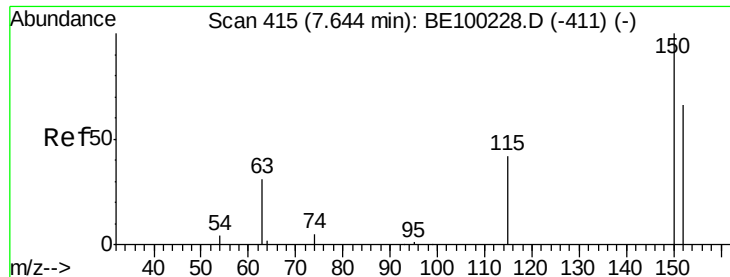
Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM

Quant Time: Jul 04 01:05:24 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

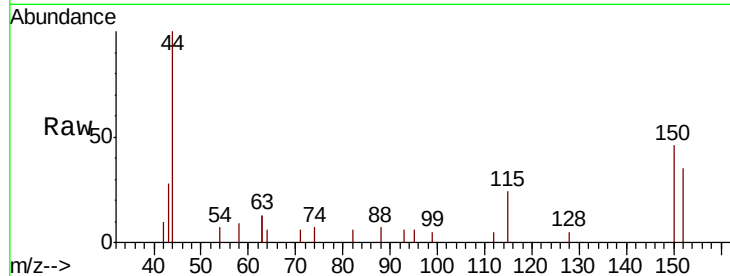
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Lower	Upper
152	100		
150	132.6	114.5	171.7
115	68.8	57.1	85.7

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM

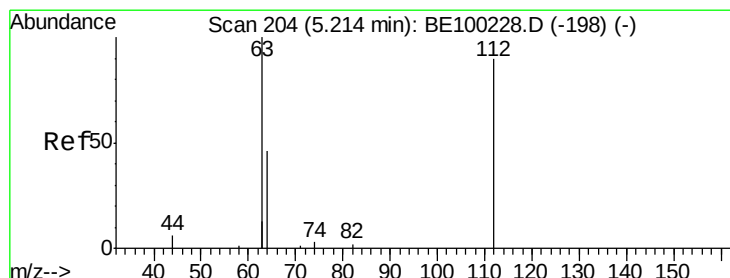
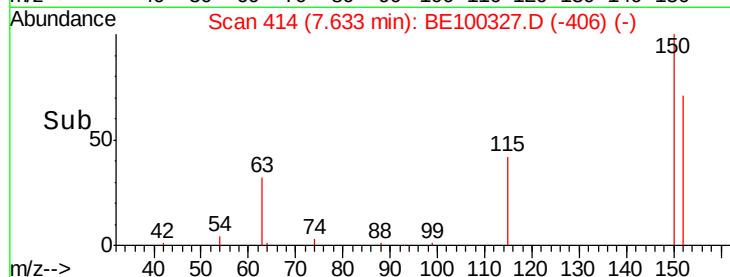
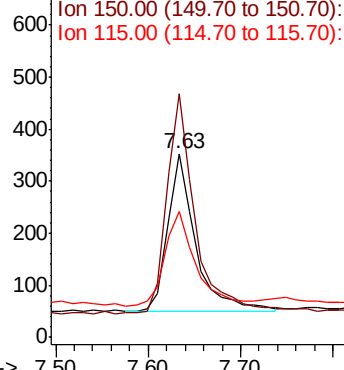


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

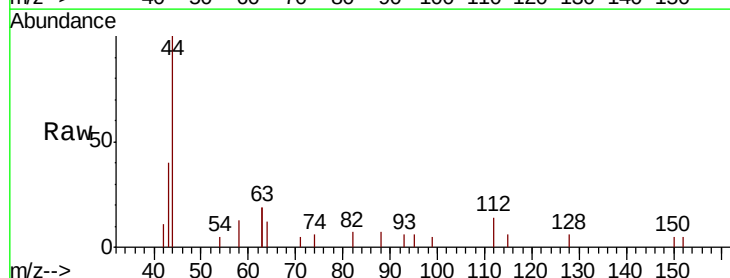
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.211 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.3	39.4	59.0#
63	112.1	104.5	156.7

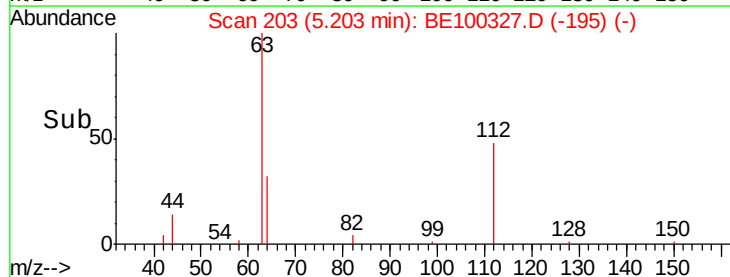
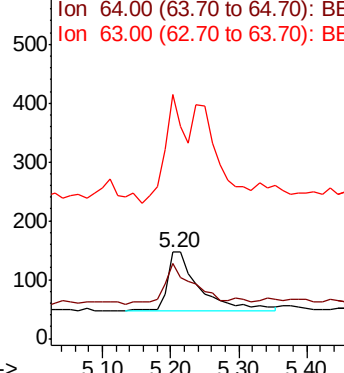


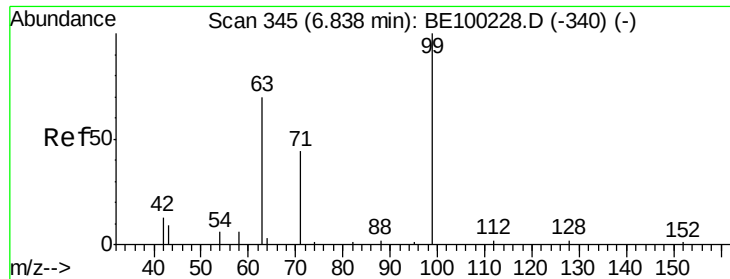
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.238 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100327.D

Acq: 3 Jul 2019 14:11

Instrument :

BNA_E

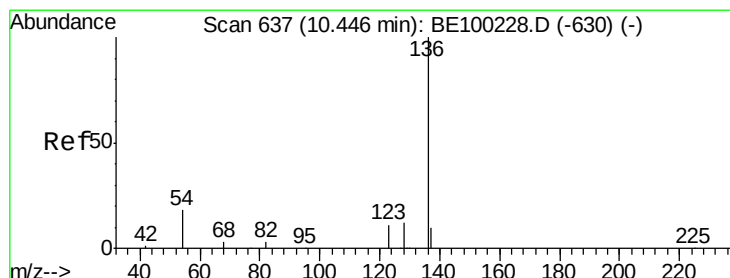
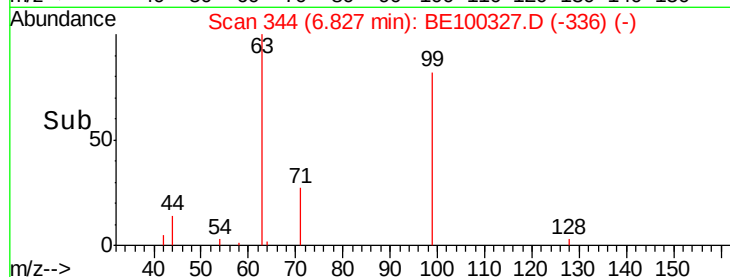
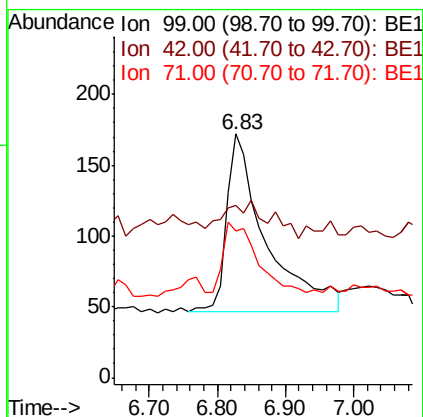
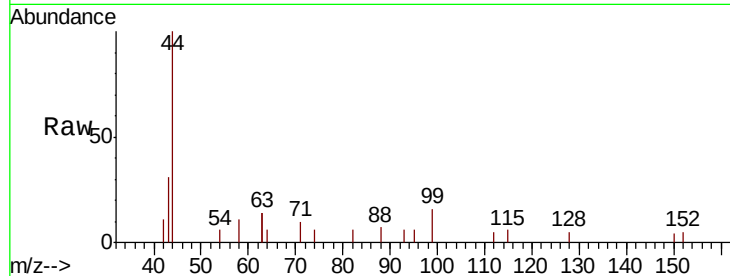
ClientSampleId :

EXT-009-SW140-062019

Tot Ion:	99	Resp:	502
Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.2	16.8#
71	34.5	37.2	55.8#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM



#7

Naphthalene-d8

Concen: 0.400 ng

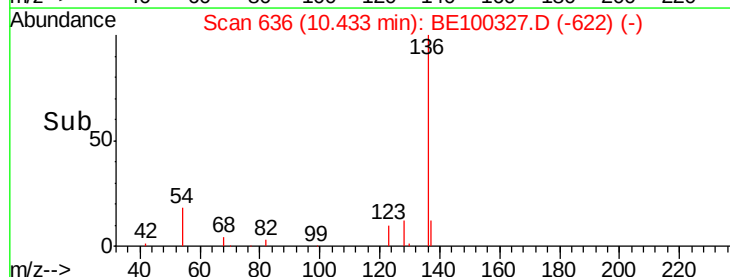
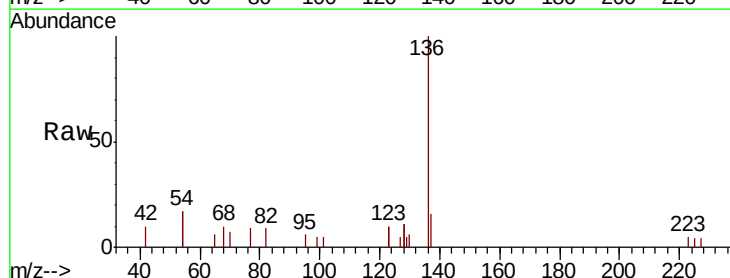
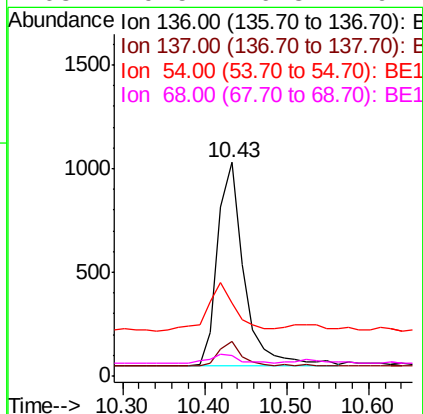
RT: 10.43 min Scan# 636

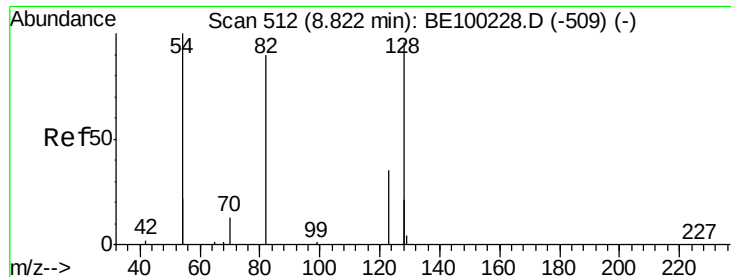
Delta R.T. -0.01 min

Lab File: BE100327.D

Acq: 3 Jul 2019 14:11

Tgt Ion:	136	Resp:	2230
Ion	Ratio	Lower	Upper
136	100		
137	15.9	11.8	17.8
54	34.4	27.7	41.5
68	9.5	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.197 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100327.D

Acq: 3 Jul 2019 14:11

Instrument :

BNA_E

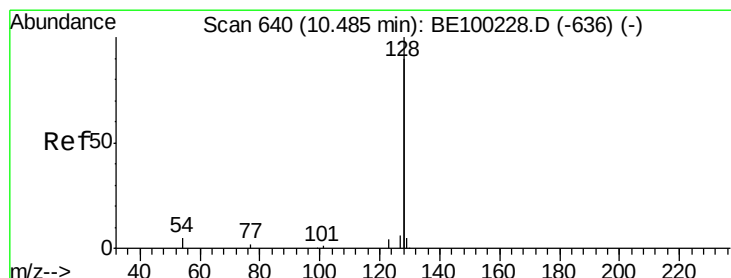
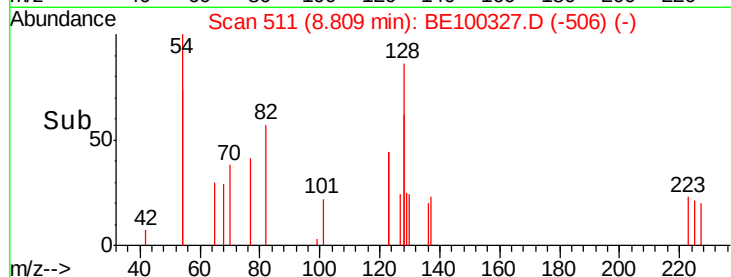
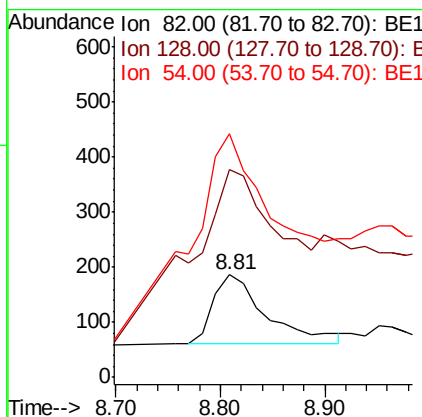
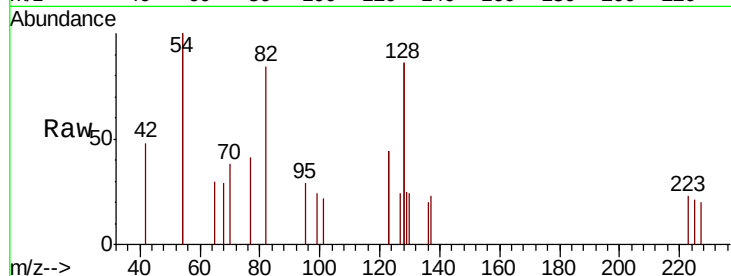
ClientSampleId :

EXT-009-SW140-062019

Tot Ion:	82	Resp:	437
Ion	Ratio	Lower	Upper
82	100		
128	203.2	140.9	211.3
54	237.6	146.2	219.2#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM



#9

Naphthalene

Concen: 0.592 ng

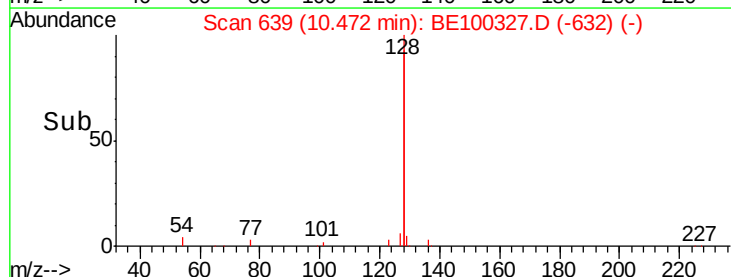
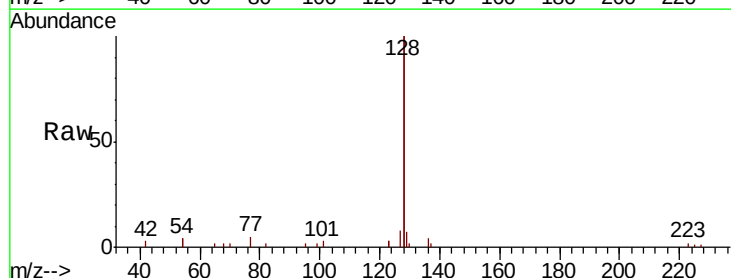
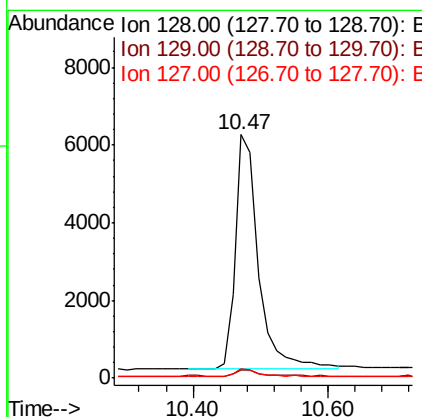
RT: 10.47 min Scan# 639

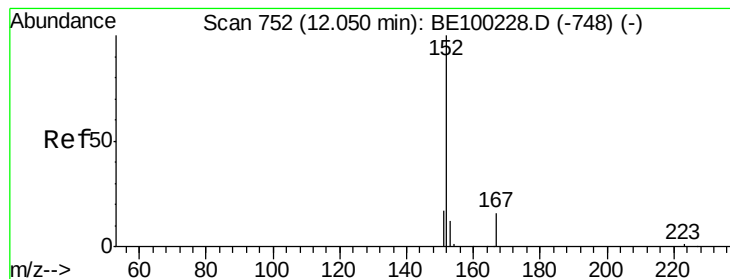
Delta R.T. -0.01 min

Lab File: BE100327.D

Acq: 3 Jul 2019 14:11

Tgt Ion:	128	Resp:	14553
Ion	Ratio	Lower	Upper
128	100		
129	3.4	3.0	4.6
127	4.0	3.5	5.3





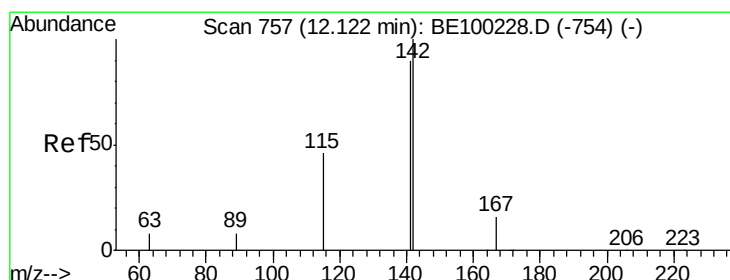
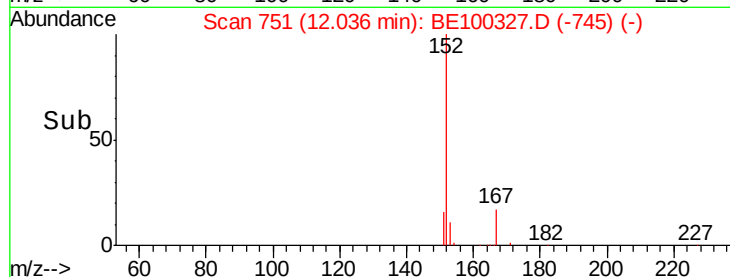
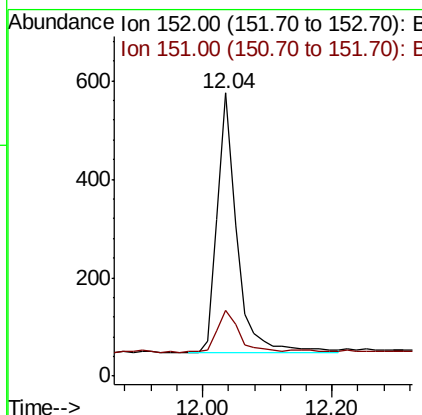
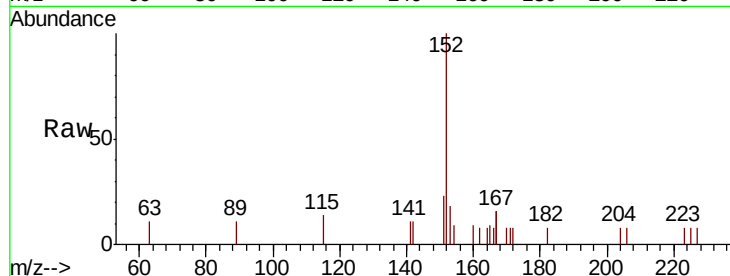
#11
2-Methylnaphthalene-d10
Concen: 0.263 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion:152 Resp: 1102
Ion Ratio Lower Upper
152 100
151 17.7 15.1 22.7

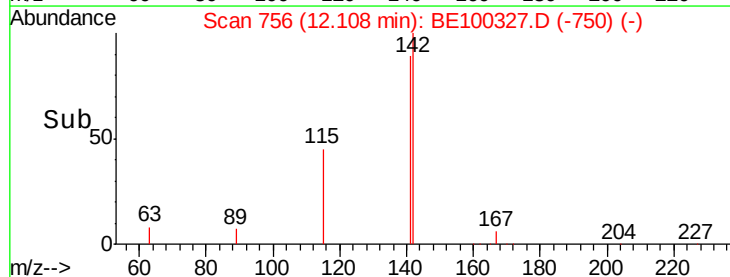
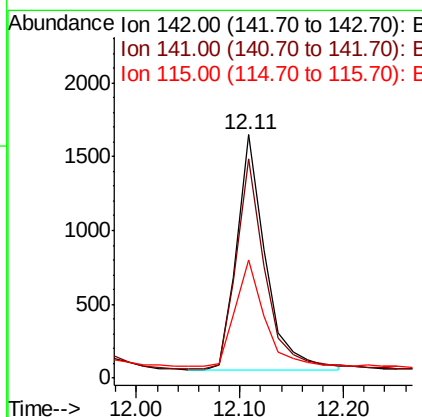
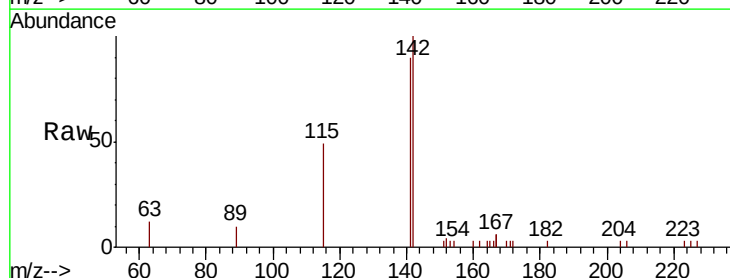
Manual Integrations
APPROVED

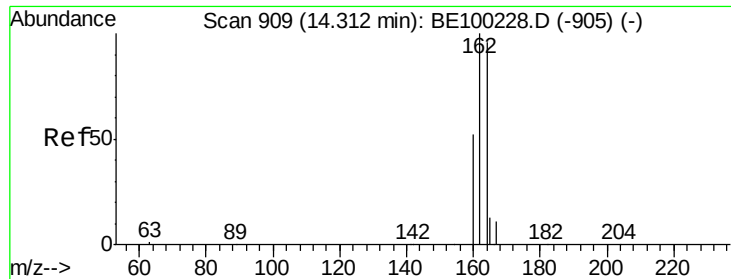
mohammad
7/5/2019 8:53:44 AM



#12
2-Methylnaphthalene
Concen: 0.713 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion:142 Resp: 3076
Ion Ratio Lower Upper
142 100
141 90.2 72.4 108.6
115 48.8 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: BE100327.D

Acq: 3 Jul 2019 14:11

Instrument :

BNA_E

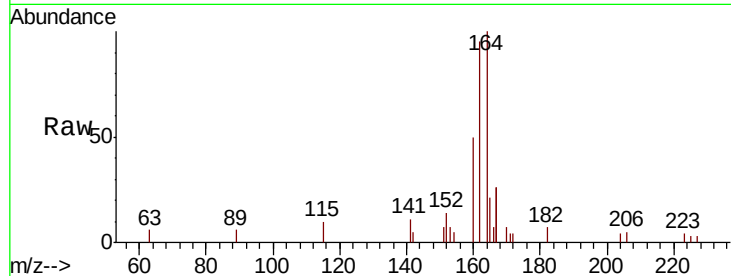
ClientSampleId :

EXT-009-SW140-062019

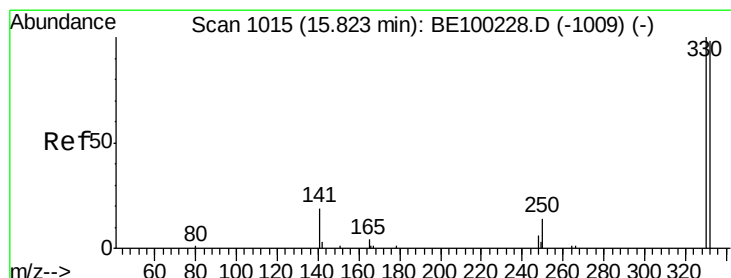
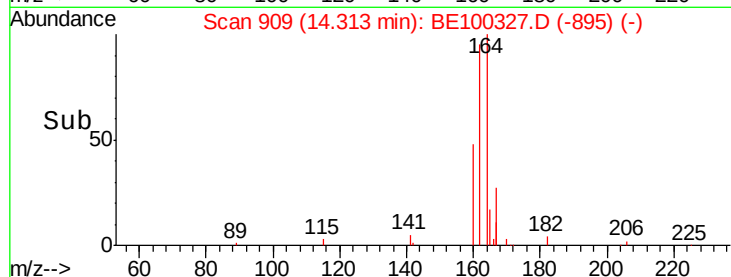
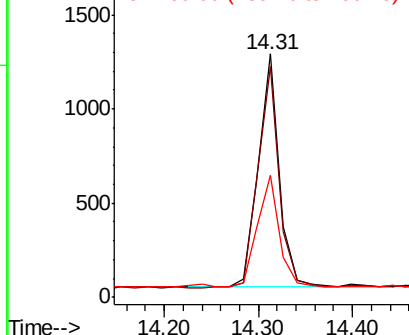
Tot Ion:	164	Resp:	1933
Ion	Ratio	Lower	Upper
164	100		
162	94.8	83.4	125.0
160	49.9	45.0	67.6

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM



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: 0.324 ng

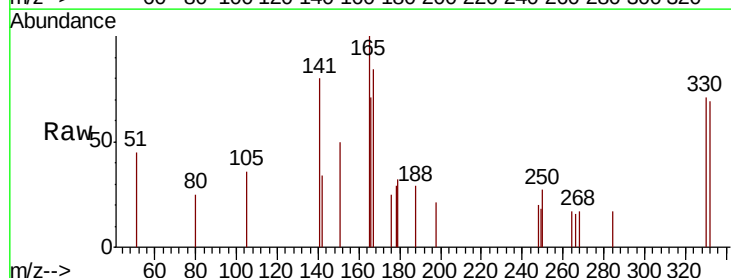
RT: 15.81 min Scan# 1014

Delta R.T. -0.01 min

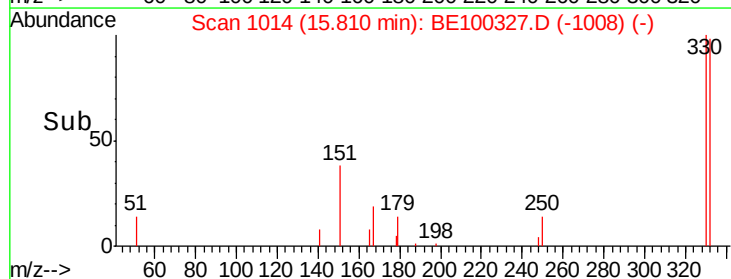
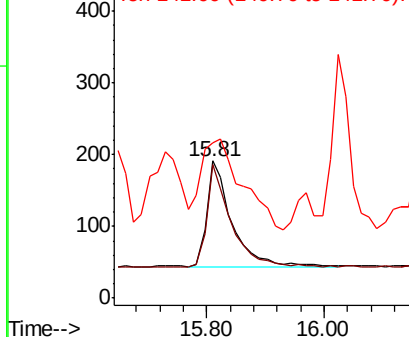
Lab File: BE100327.D

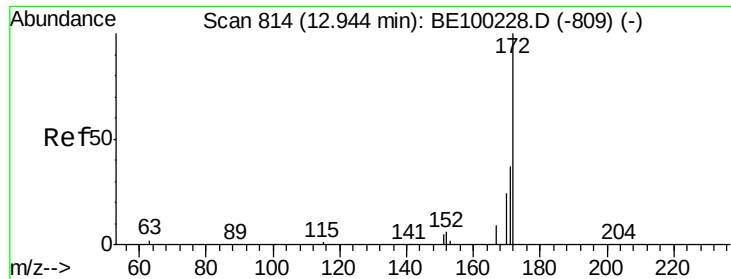
Acq: 3 Jul 2019 14:11

Tgt Ion:	330	Resp:	438
Ion	Ratio	Lower	Upper
330	100		
332	94.7	77.0	115.4
141	140.2	22.0	33.0#



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





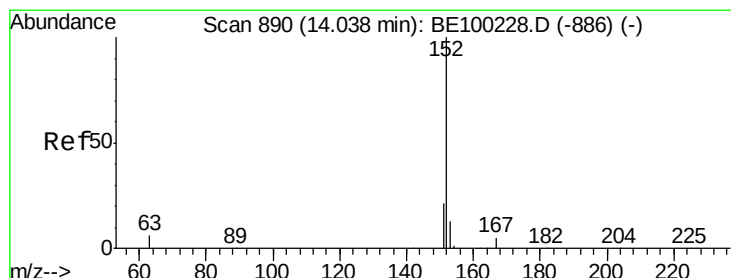
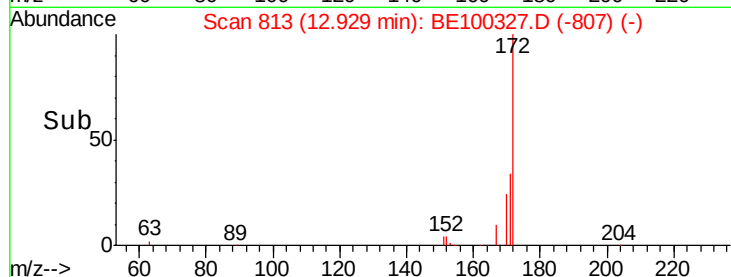
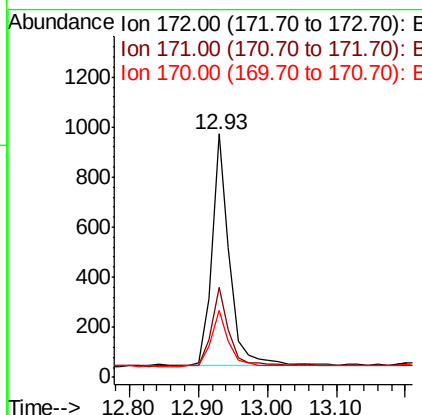
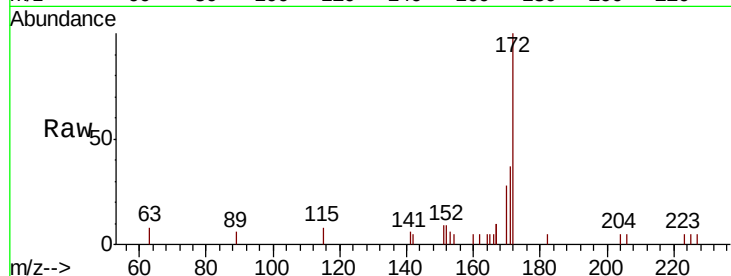
#15
2-Fluorobiphenyl
Concen: 0.219 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.2	31.9	47.9
170	27.5	22.2	33.2

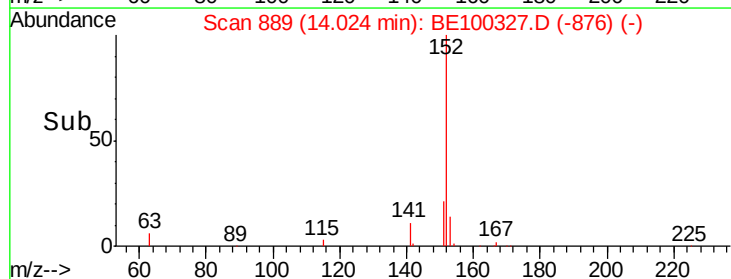
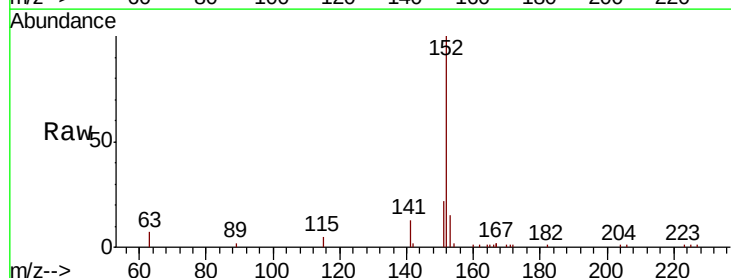
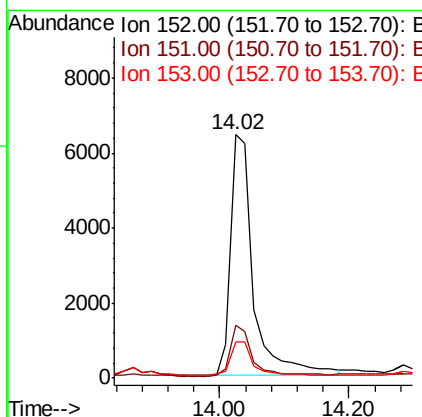
Manual Integrations
APPROVED

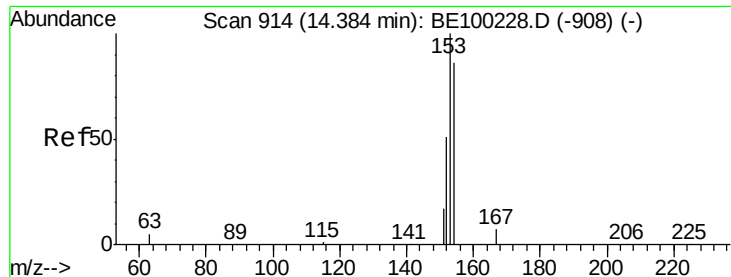
mohammad
7/5/2019 8:53:44 AM



#16
Acenaphthylene
Concen: 1.714 ng
RT: 14.02 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	25.0
153	14.1	10.5	15.7





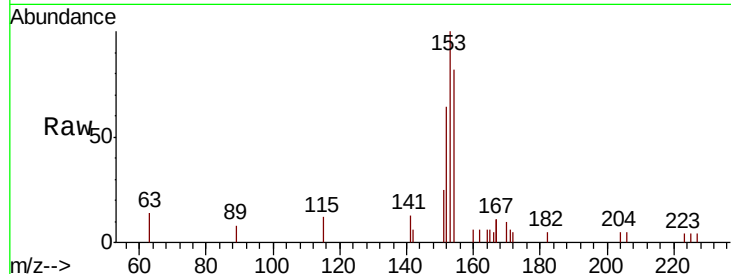
#17
Acenaphthene
Concen: 0.245 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Lower	Upper
154	100		
153	120.2	93.4	140.2
152	77.8	49.4	74.2

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM

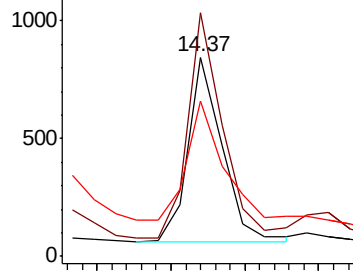


Abundance

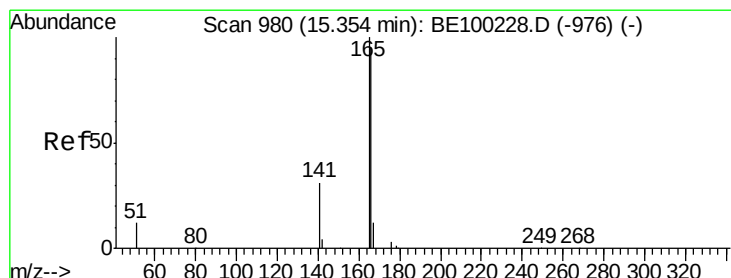
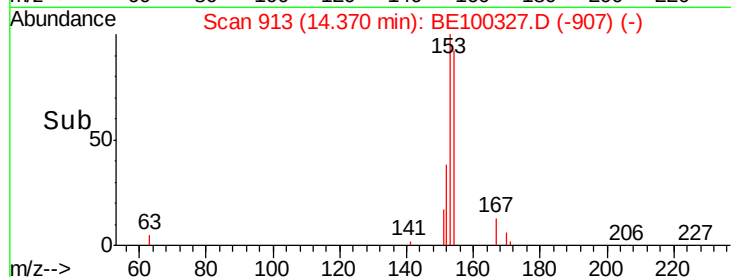
Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#18
Fluorene
Concen: 0.560 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

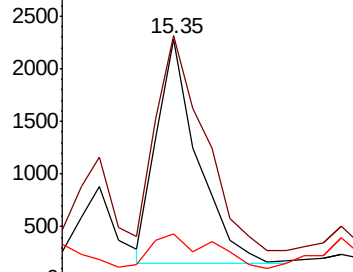
Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.6	81.1	121.7
167	22.4	10.7	16.1

Abundance

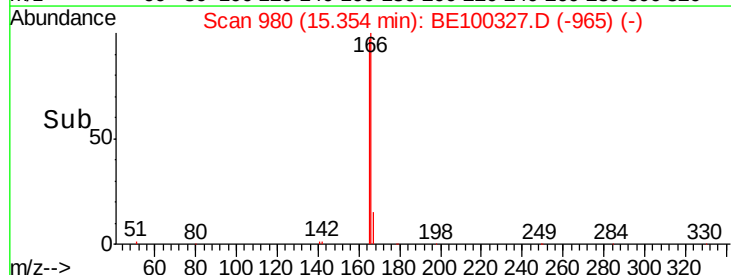
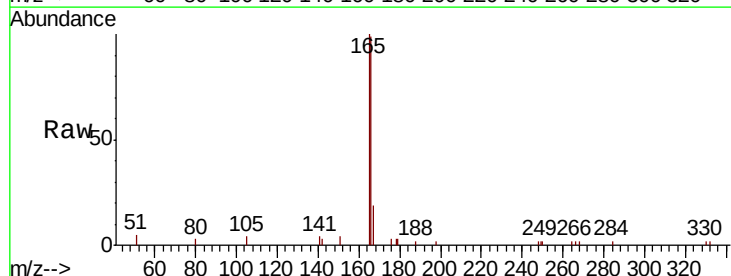
Ion 166.00 (165.70 to 166.70): E

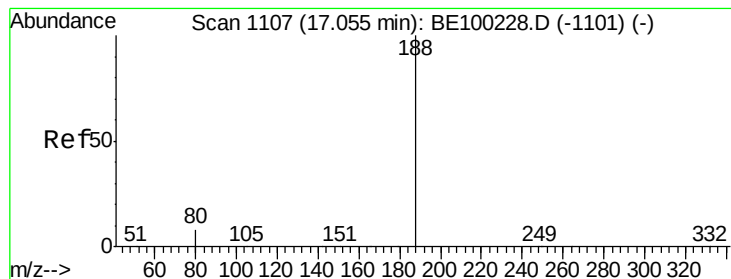
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100327.D

Acq: 3 Jul 2019 14:11

Instrument :

BNA_E

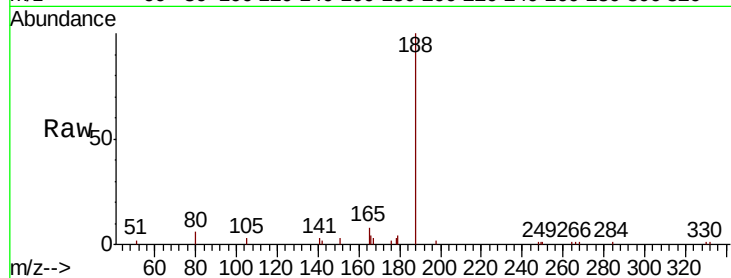
ClientSampleId :

EXT-009-SW140-062019

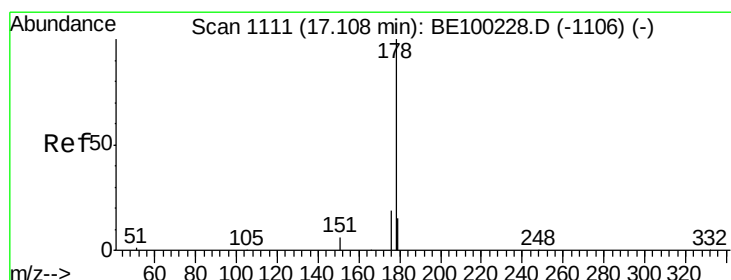
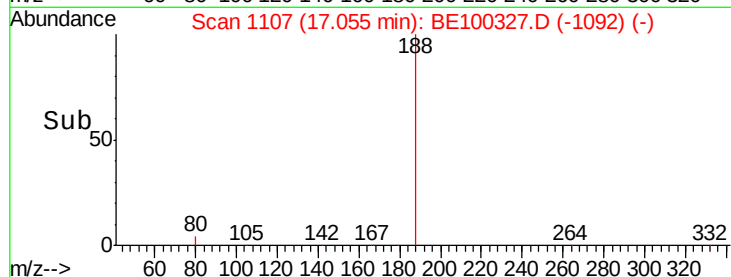
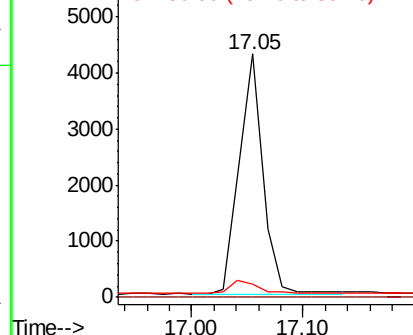
Tot Ion:	188	Resp:	6270
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	5.6	7.6	11.4#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE1
Ion 80.00 (79.70 to 80.70): BE1



#23

Phenanthrene

Concen: 7.759 ng

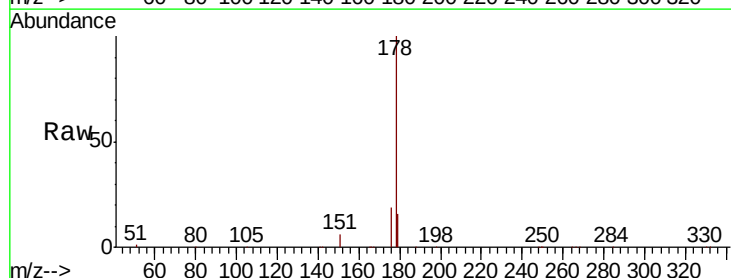
RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

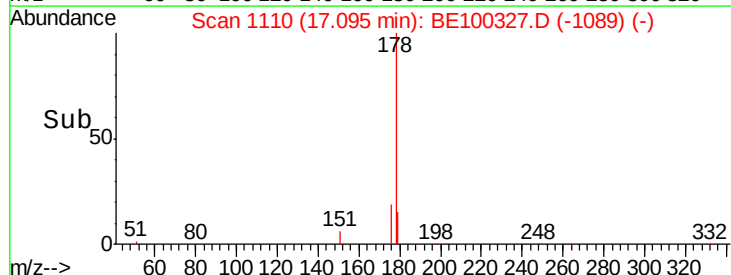
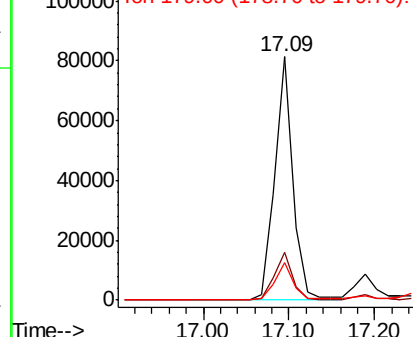
Lab File: BE100327.D

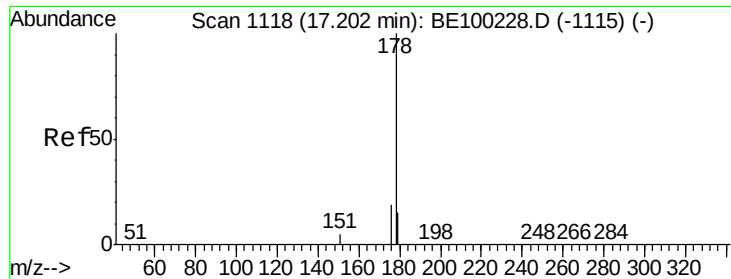
Acq: 3 Jul 2019 14:11

Tgt Ion:	178	Resp:	117909
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.9	23.9
179	15.5	12.2	18.2



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





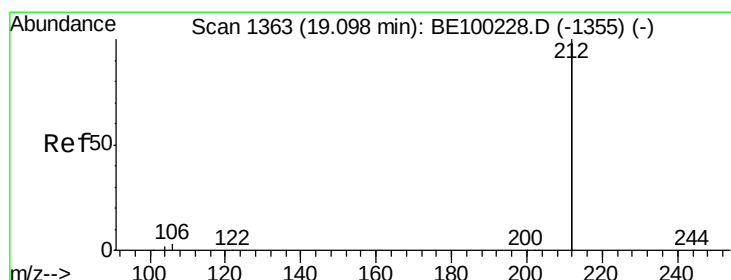
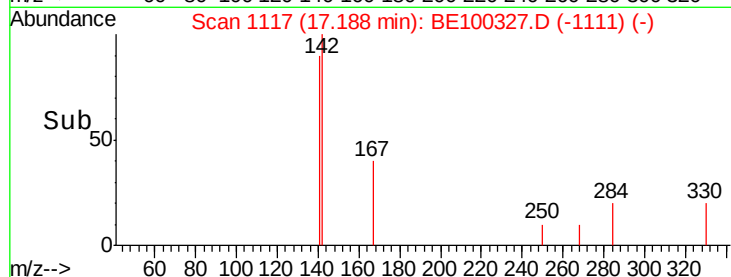
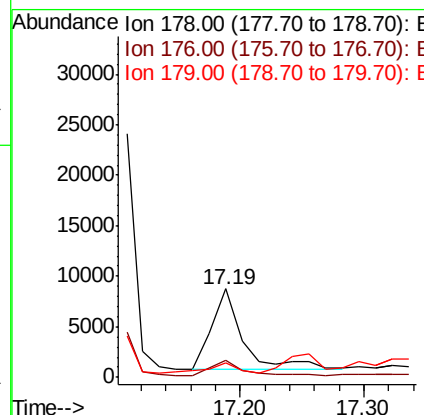
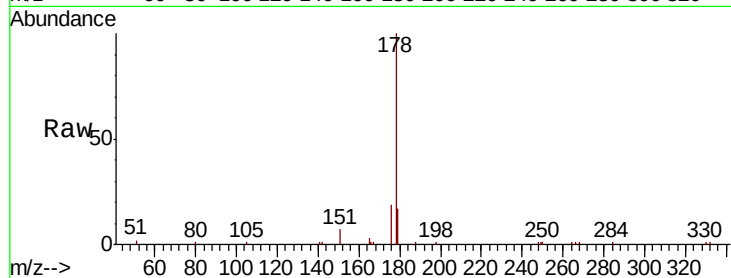
#24
 Anthracene
 Concen: 0.998 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.01 min
 Lab File: BE100327.D
 Acq: 3 Jul 2019 14:11

Instrument :
 BNA_E
 ClientSampleId :
 EXT-009-SW140-062019

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	13.2	12.2	18.2

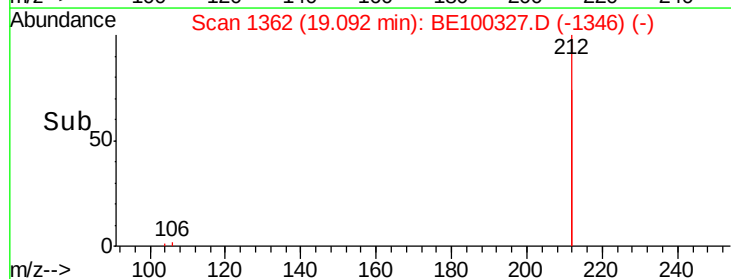
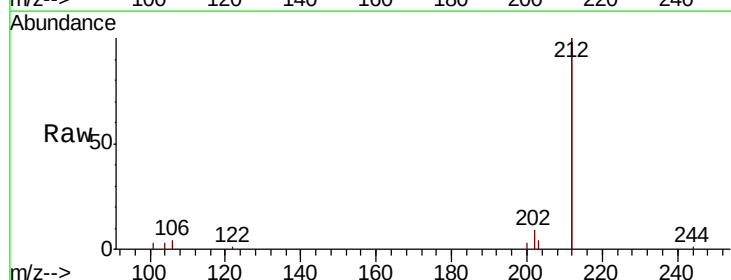
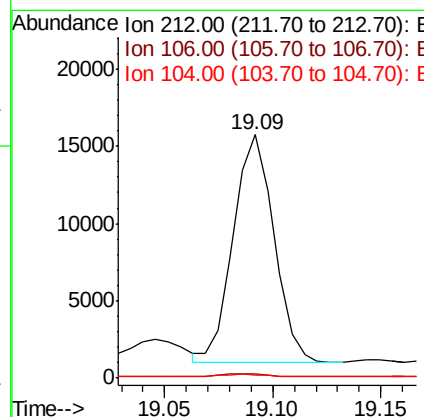
Manual Integrations
 APPROVED

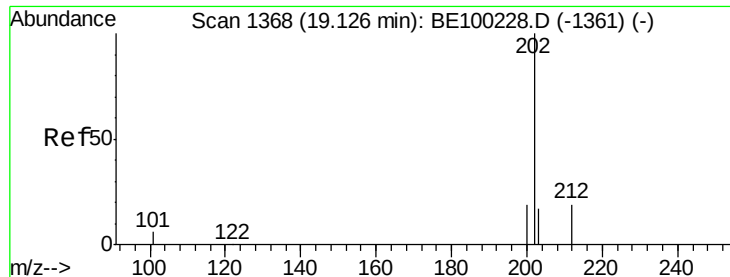
mohammad
 7/5/2019 8:53:44 AM



#25
 Fluoranthene-d10
 Concen: 0.213 ng
 RT: 19.09 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: BE100327.D
 Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
212	100		
106	1.7	1.3	1.9
104	1.1	0.8	1.2





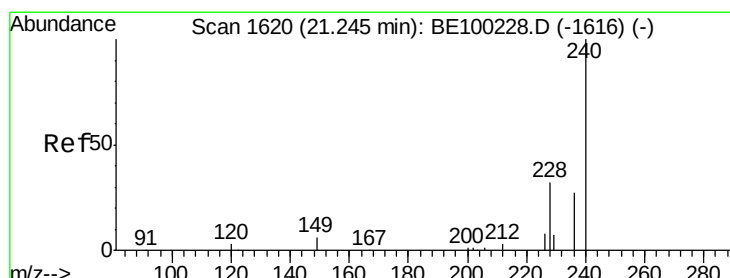
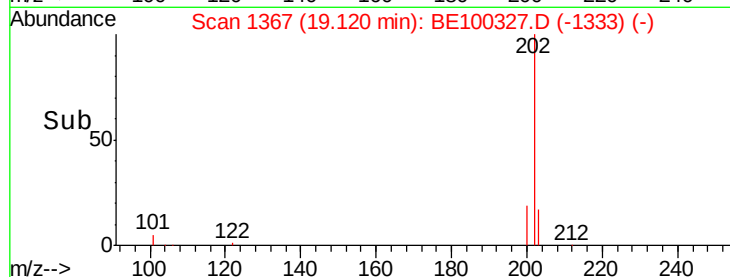
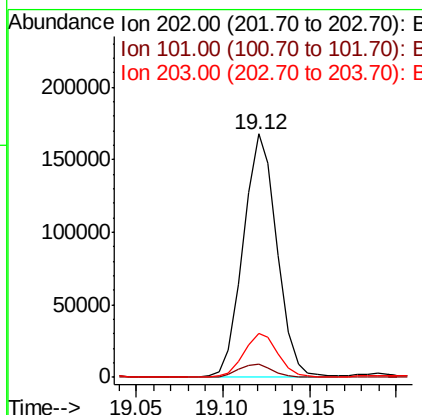
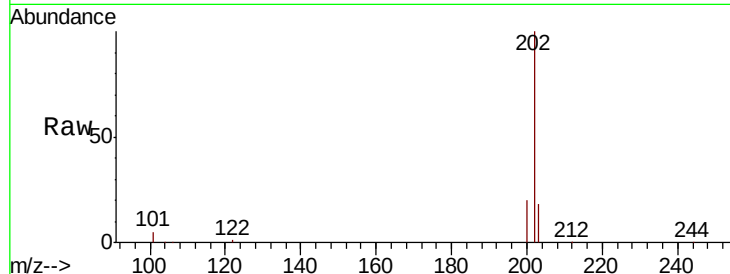
#26
Fluoranthene
Concen: 9.318 ng
RT: 19.12 min Scan# 1367
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Resp	Lower	Upper
202	100	225553		
101	5.3		4.6	7.0
203	18.0		13.7	20.5

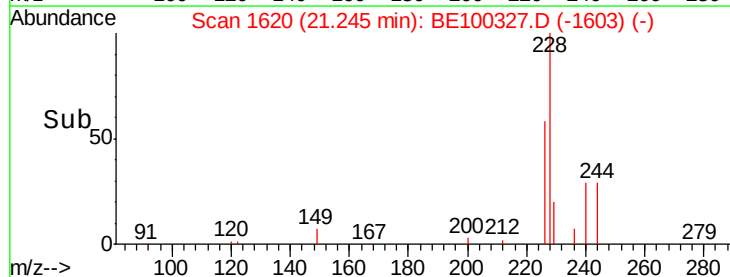
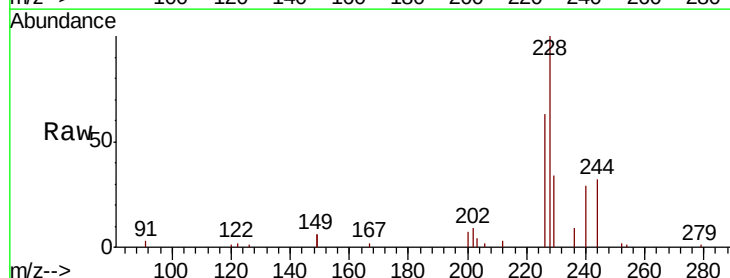
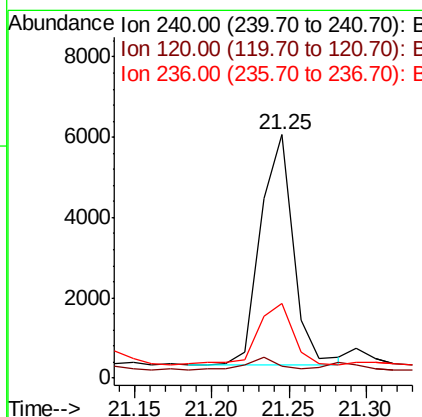
Manual Integrations
APPROVED

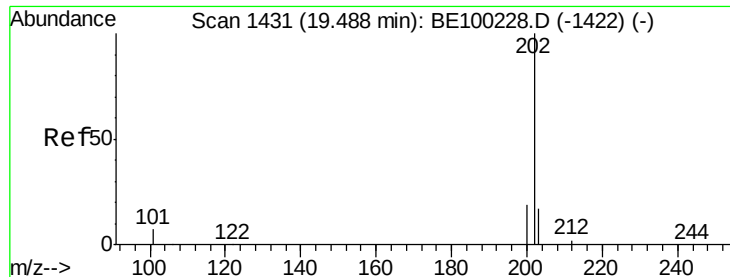
mohammad
7/5/2019 8:53:44 AM



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 1620
Delta R.T. 0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	8460		
120	5.1		3.3	4.9#
236	30.9		22.6	34.0





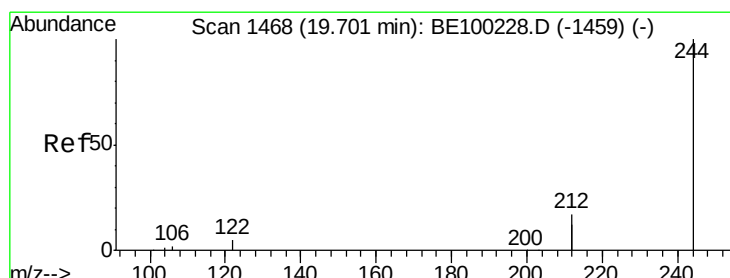
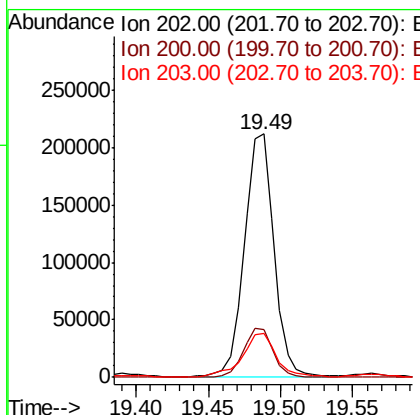
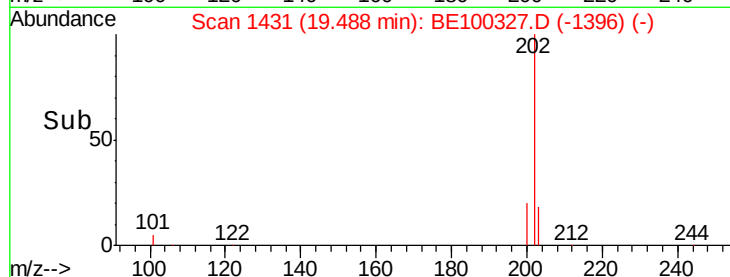
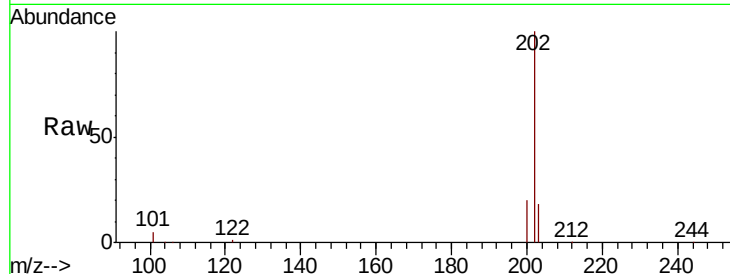
#28
Pvrene
Concen: 13.455 ng
RT: 19.49 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	19.9	15.6	23.4
203	20.4	14.0	21.0

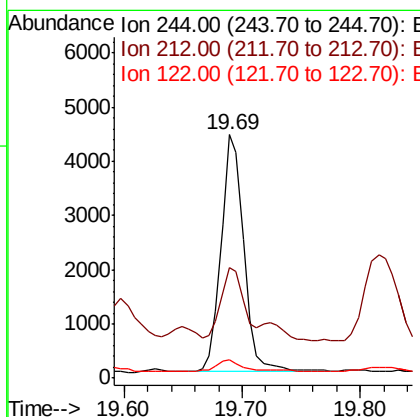
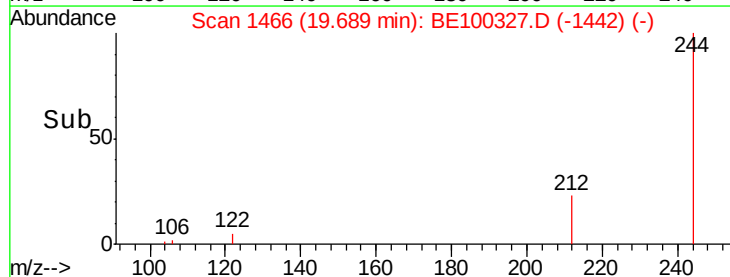
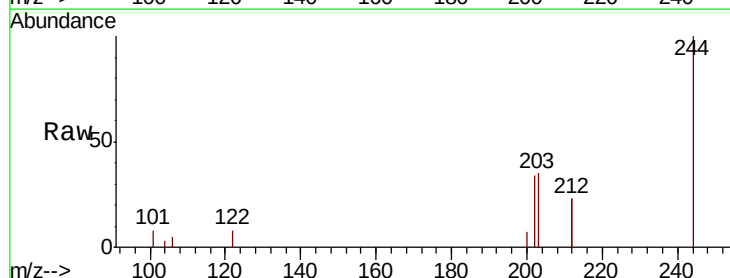
Manual Integrations
APPROVED

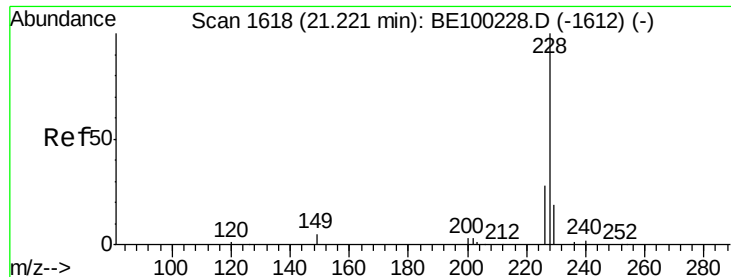
mohammad
7/5/2019 8:53:44 AM



#29
Terphenyl-d14
Concen: 0.333 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	45.3	27.3	40.9#
122	7.6	4.7	7.1#





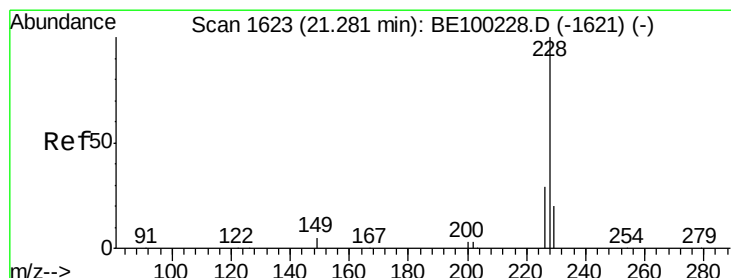
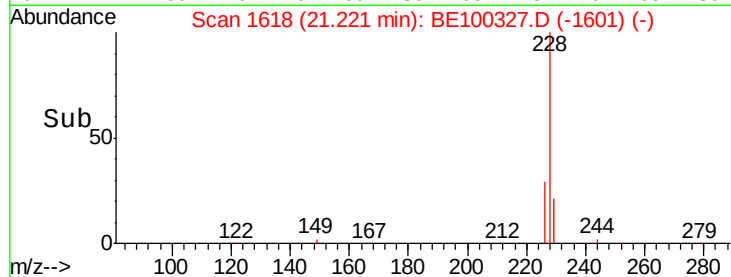
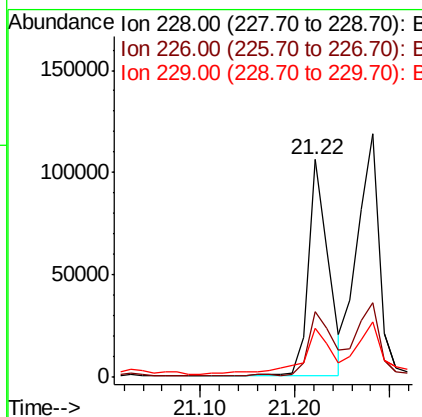
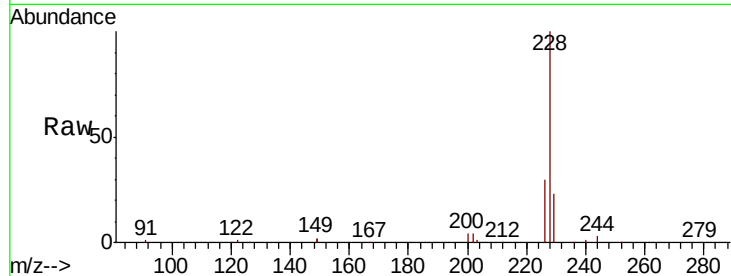
#30
Benzo(a)anthracene
Concen: 5.554 ng
RT: 21.22 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.2	34.8
229	22.6	15.7	23.5

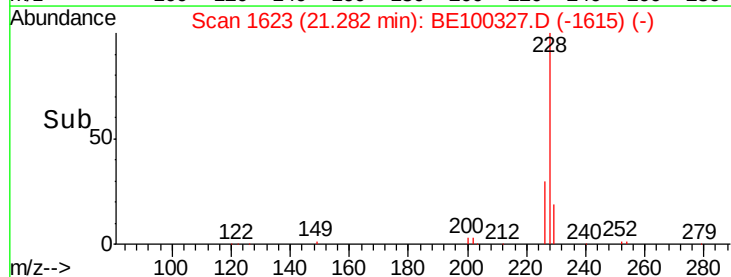
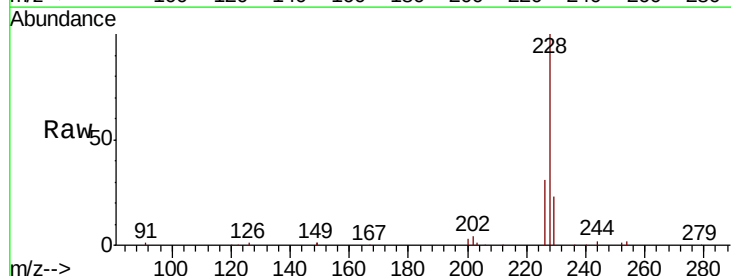
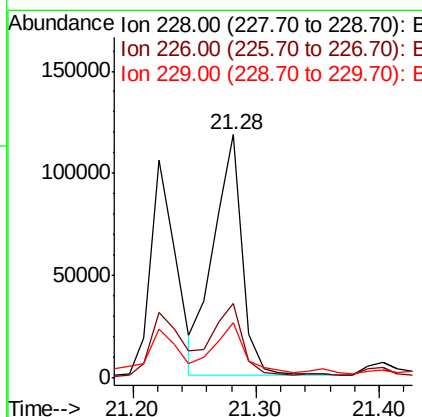
Manual Integrations
APPROVED

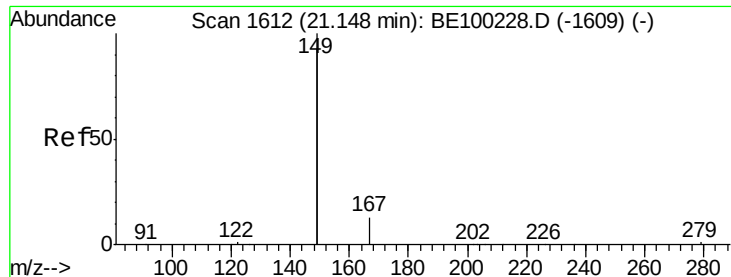
mohammad
7/5/2019 8:53:44 AM



#31
Chrysene
Concen: 6.738 ng
RT: 21.28 min Scan# 1623
Delta R.T. 0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.9	35.9
229	22.9	16.5	24.7





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.757 ng

RT: 21.15 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BE100327.D

Acq: 3 Jul 2019 14:11

Instrument :

BNA_E

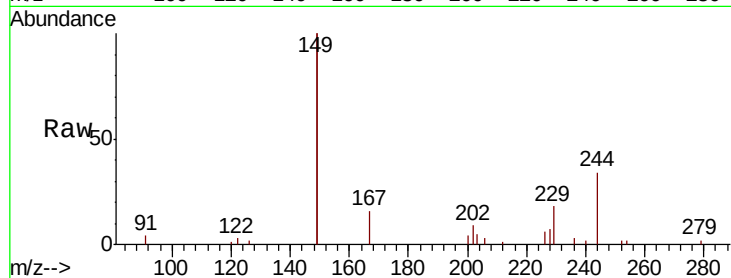
ClientSampleId :

EXT-009-SW140-062019

Tot Ion:	149	Resp:	32009
Ion Ratio	Lower	Upper	
149	100		
167	7.4	5.8	8.8
279	1.5	1.1	1.7

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM

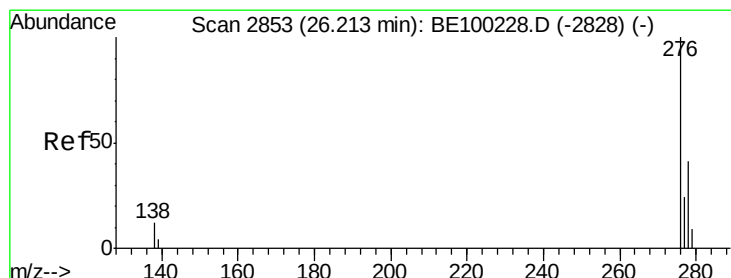
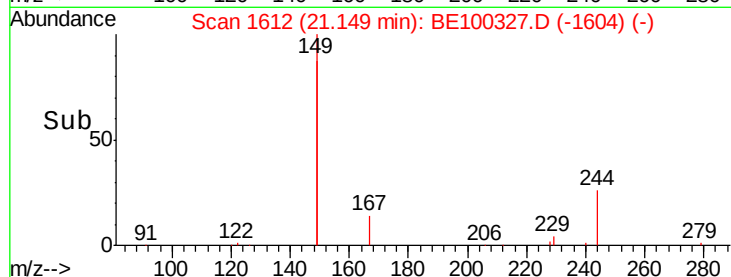
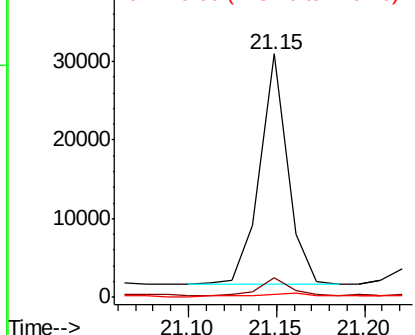


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 2.652 ng

RT: 26.22 min Scan# 2855

Delta R.T. 0.01 min

Lab File: BE100327.D

Acq: 3 Jul 2019 14:11

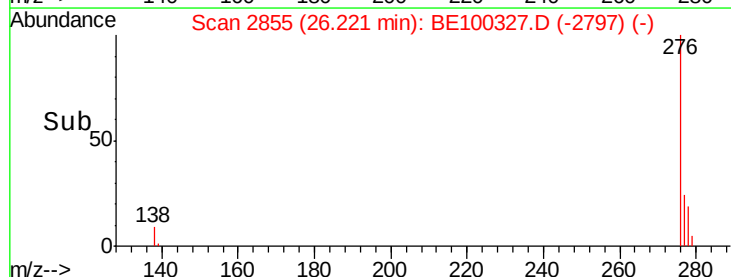
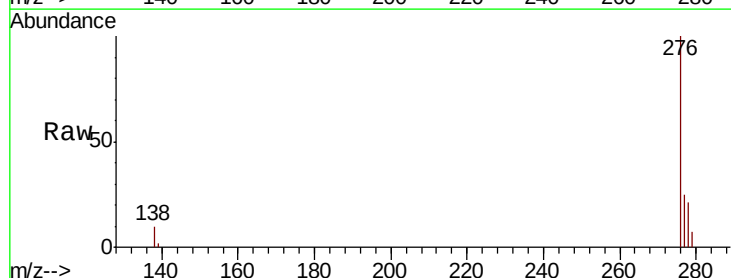
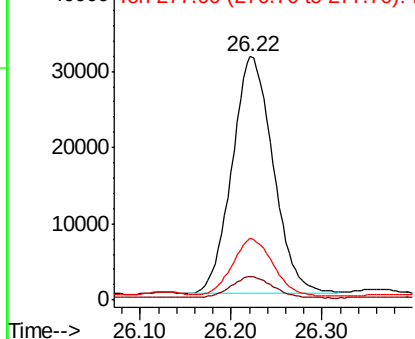
Tgt Ion:	276	Resp:	97981
Ion Ratio	Lower	Upper	
276	100		
138	9.1	9.4	14.0#
277	24.4	19.2	28.8

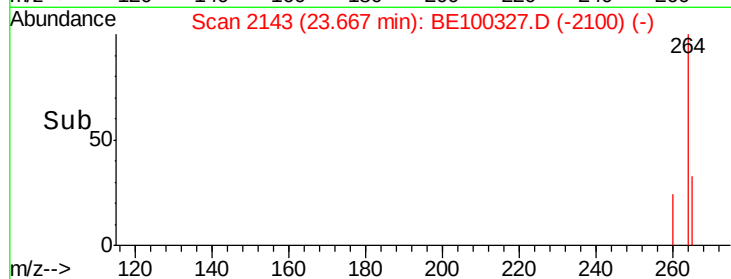
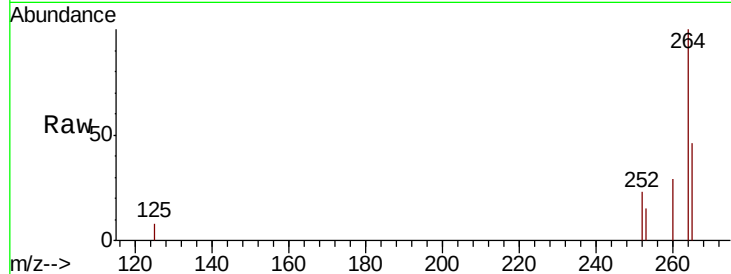
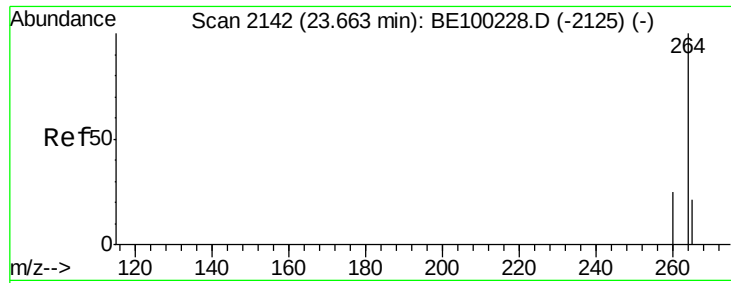
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





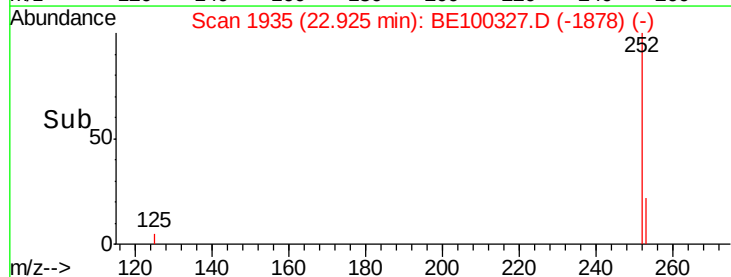
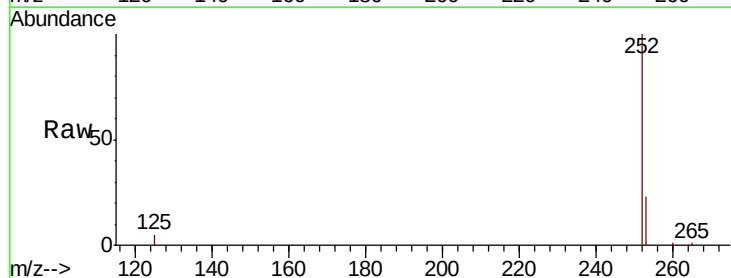
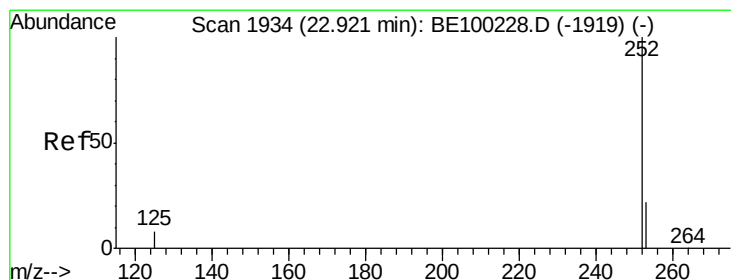
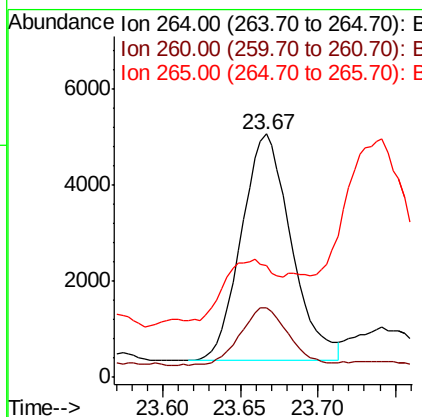
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tot Ion	Ratio	Lower	Upper
264	100		
260	28.7	20.8	31.2
265	45.7	21.8	32.6

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

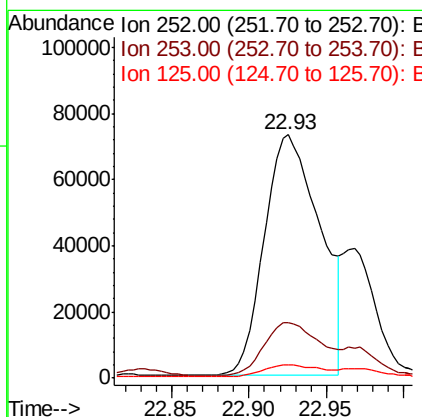
Manual Integrations
APPROVED

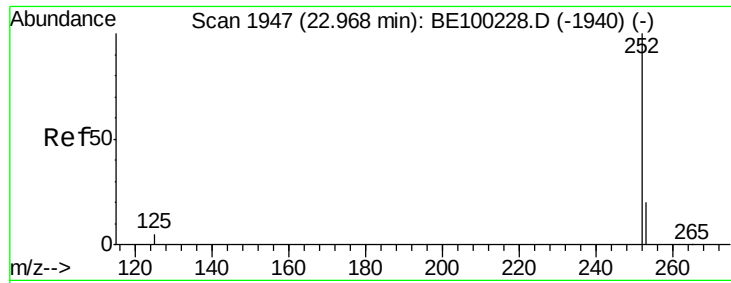
mohammad
7/5/2019 8:53:44 AM



#35
Benzo(b)fluoranthene
Concen: 6.366 ng
RT: 22.93 min Scan# 1935
Delta R.T. 0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.2	28.8
125	5.3	7.4	11.0





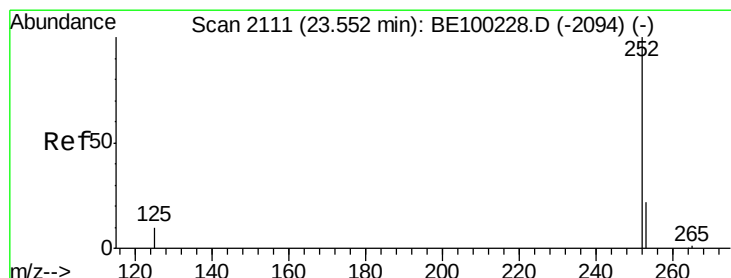
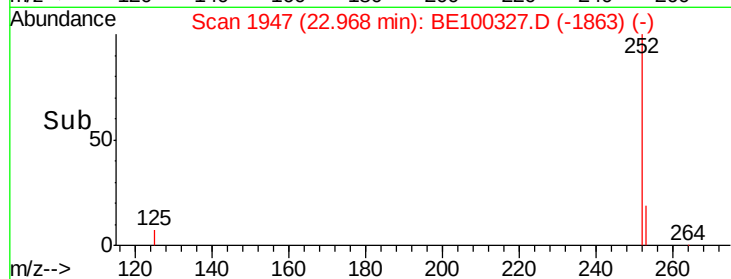
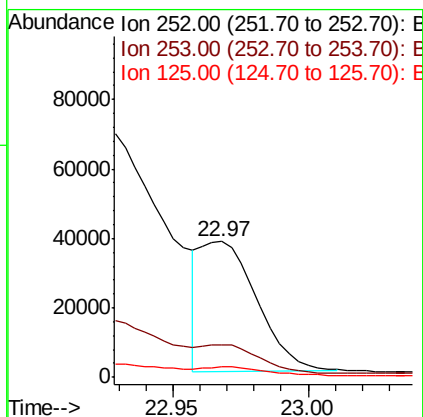
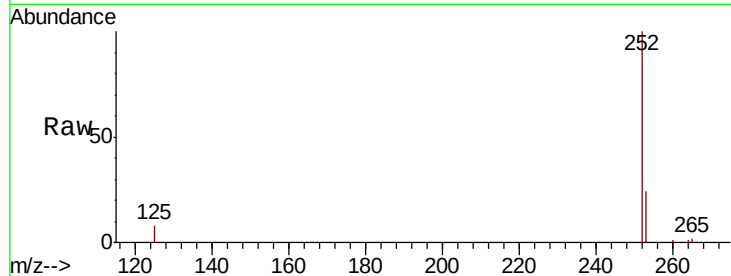
#36
Benzo(k)fluoranthene
Concen: 1.686 ng m
RT: 22.97 min Scan# 1947
Delta R.T. 0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	7.6	5.0	7.4

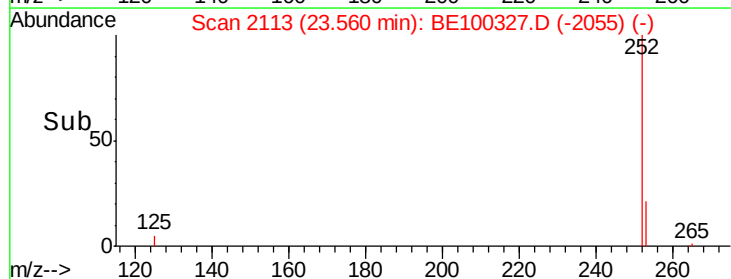
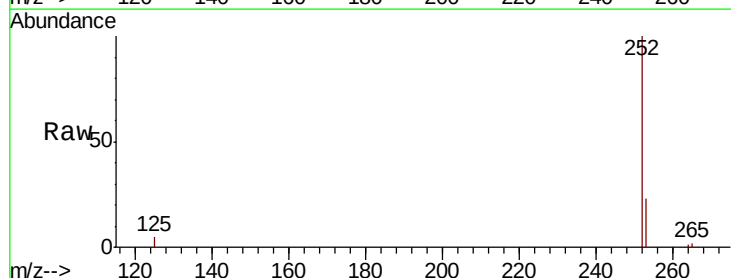
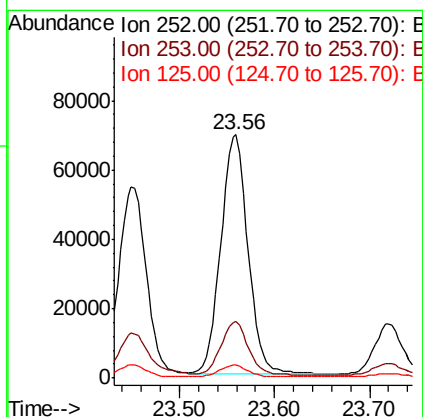
Manual Integrations
APPROVED

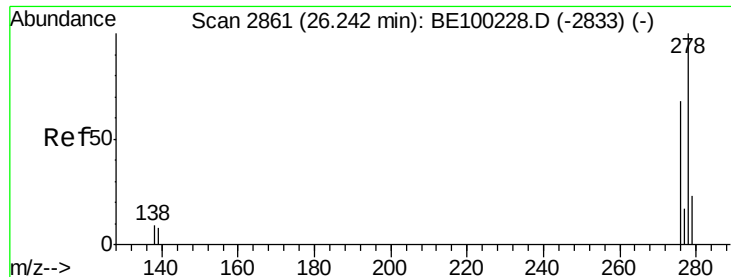
mohammad
7/5/2019 8:53:44 AM



#37
Benzo(a)pyrene
Concen: 4.770 ng
RT: 23.56 min Scan# 2113
Delta R.T. 0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.6	29.4
125	5.4	9.0	13.6





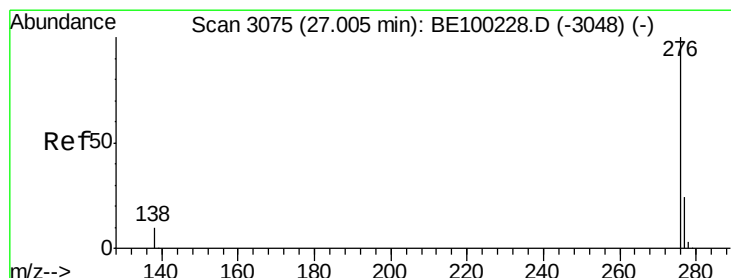
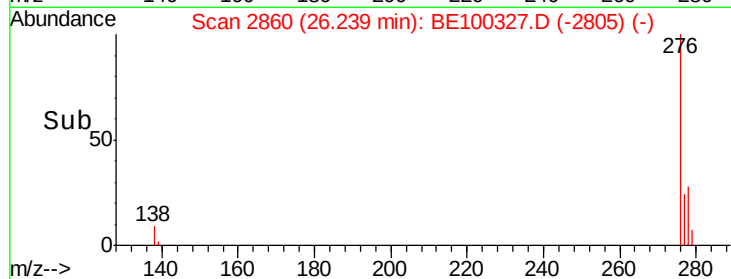
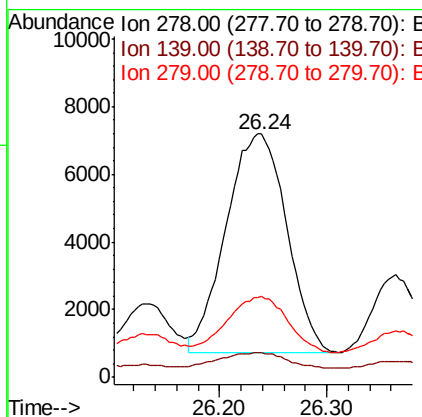
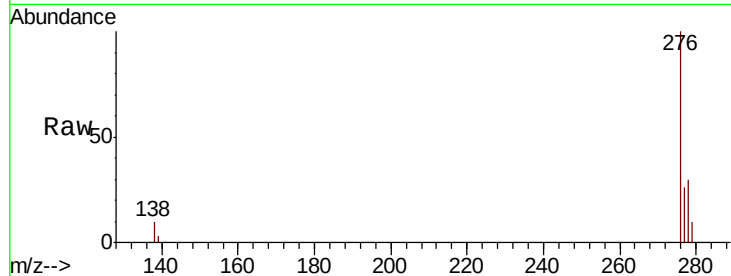
#38
Dibenzo(a,h)anthracene
Concen: 0.844 ng
RT: 26.24 min Scan# 2860
Delta R.T. -0.00 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Instrument :
BNA_E
ClientSampleId :
EXT-009-SW140-062019

Tot Ion	Ratio	Lower	Upper
278	100		
139	10.2	8.2	12.2
279	33.5	20.3	30.5#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:53:44 AM



#39
Benzo(g,h,i)perylene
Concen: 3.706 ng
RT: 27.01 min Scan# 3077
Delta R.T. 0.01 min
Lab File: BE100327.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	20.2	30.2
138	9.6	9.0	13.6

