

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100349.D
 Acq On : 4 Jul 2019 3:38
 Operator : JU/SJ
 Sample : K3560-17 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-012-SW153-062419

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:54:55 AM

Quant Time: Jul 05 01:41:27 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	691	0.40	ng	-0.01
7) Naphthalene-d8	10.43	136	2501	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	1941	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5627	0.40	ng	0.00
27) Chrysene-d12	21.24	240	7355	0.40	ng	0.00
34) Perylene-d12	23.67	264	8767	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.20	112	102	0.06	ng	-0.01
5) Phenol-d6	6.83	99	133	0.06	ng	-0.01
8) Nitrobenzene-d5	8.81	82	117	0.05	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	303	0.06	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	81	0.06	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	416	0.06	ng	-0.01
25) Fluoranthene-d10	19.09	212	4206	0.05	ng	0.00
29) Terphenyl-d14	19.69	244	1403	0.09	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.48	128	2444	0.089	ng	# 92
12) 2-Methylnaphthalene	12.11	142	466	0.096	ng	# 88
16) Acenaphthylene	14.04	152	3440	0.369	ng	99
17) Acenaphthene	14.37	154	410	0.078	ng	# 87
18) Fluorene	15.35	166	1218	0.156	ng	# 86
23) Phenanthrene	17.09	178	34398	2.522	ng	100
24) Anthracene	17.19	178	4400	0.358	ng	96
26) Fluoranthene	19.12	202	79315	3.651	ng	99
28) Pyrene	19.48	202	93729	4.813	ng	96
30) Benzo(a)anthracene	21.22	228	51326	2.122	ng	96
31) Chrysene	21.28	228	59035	2.431	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	151830	4.384	ng	100
33) Indeno(1,2,3-cd)pyrene	26.22	276	36839	1.147	ng	# 97
35) Benzo(b)fluoranthene	22.92	252	68513	2.882	ng	# 97
36) Benzo(k)fluoranthene	22.96	252	20567m	0.775	ng	
37) Benzo(a)pyrene	23.55	252	47881	2.010	ng	# 95
38) Dibenzo(a,h)anthracene	26.23	278	8737	0.351	ng	# 84
39) Benzo(a,h,i)perylene	27.01	276	42350	1.657	ng	99

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

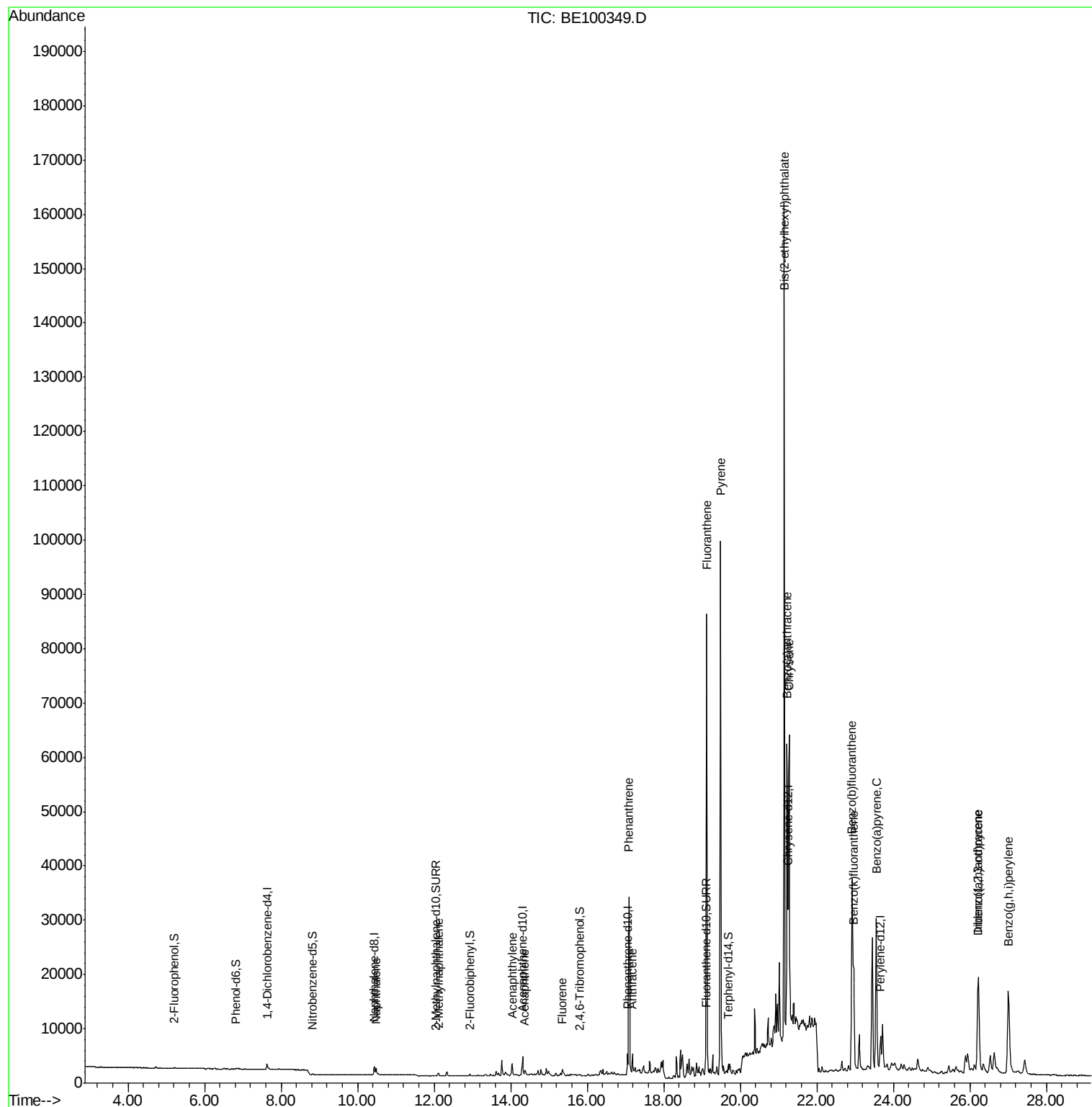
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
Data File : BE100349.D
Acq On : 4 Jul 2019 3:38
Operator : JU/SJ
Sample : K3560-17 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM

Quant Time: Jul 05 01:41:27 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

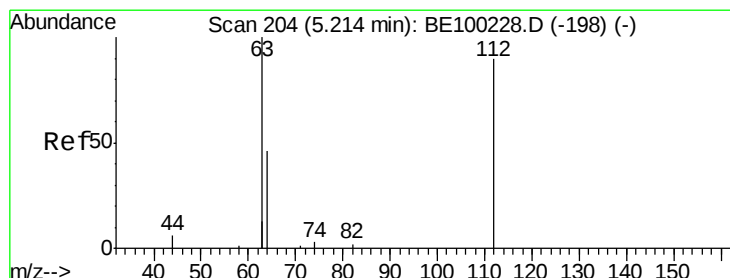
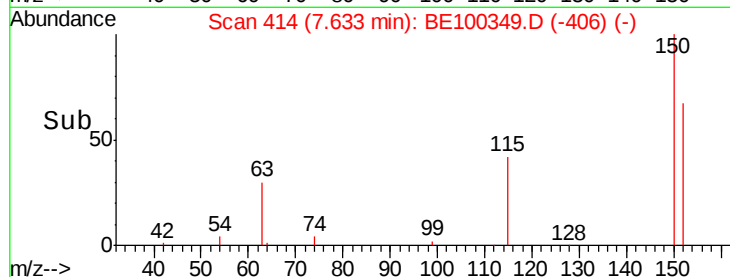
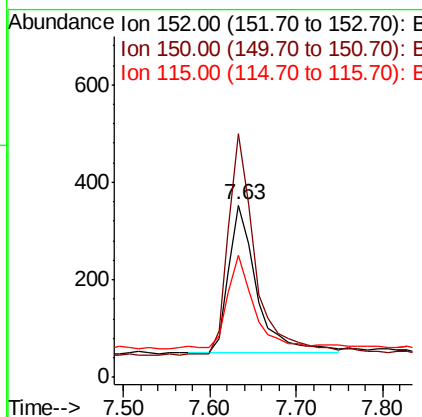
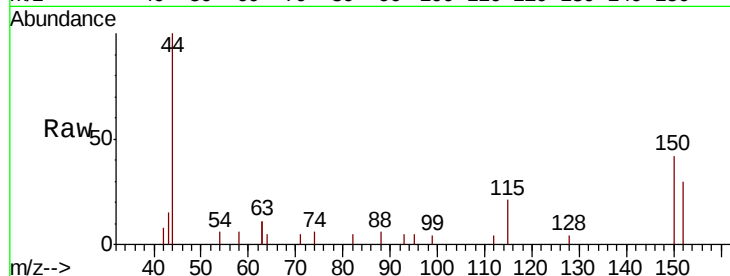
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
152	100		
150	141.4	114.5	171.7
115	70.8	57.1	85.7

Manual Integrations
APPROVED

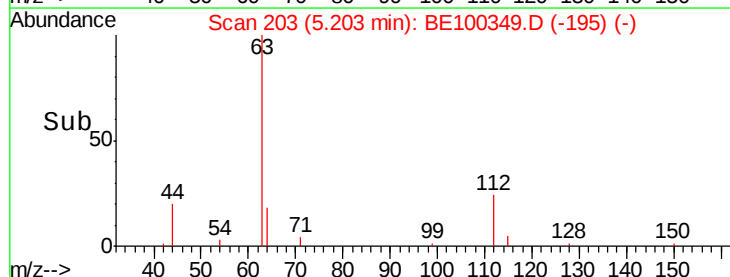
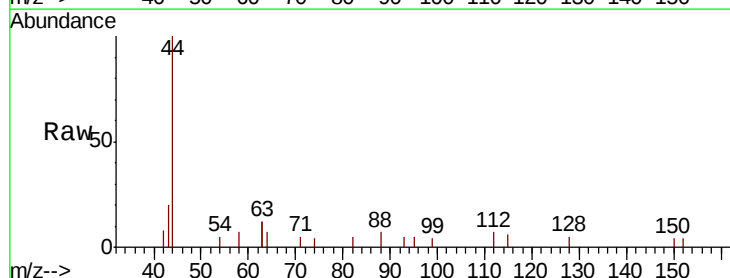
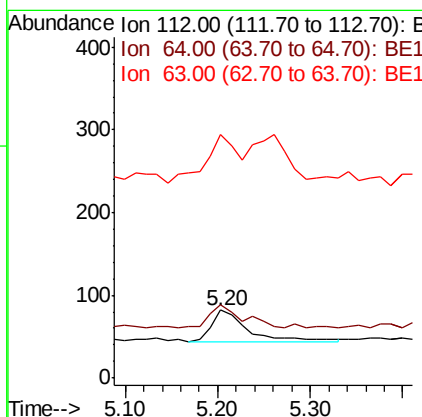
mohammad
7/5/2019 8:54:55 AM

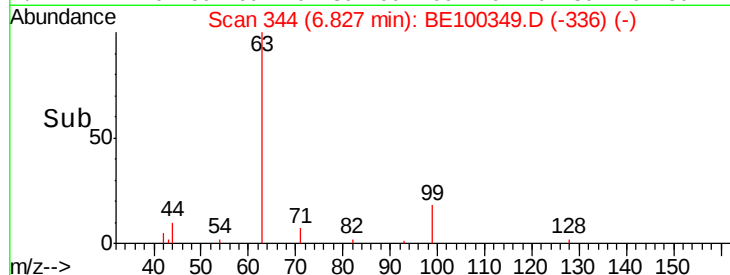
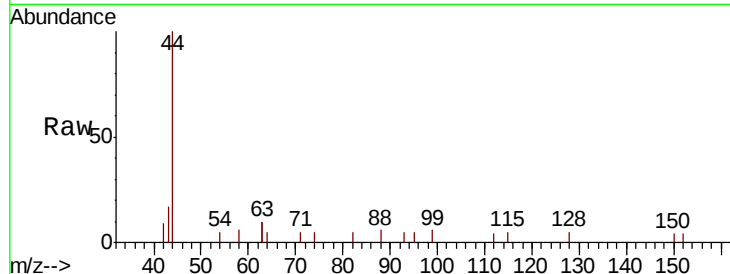


#4

2-Fluorophenol
Concen: 0.058 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.7	39.4	59.0#
63	137.3	104.5	156.7





#5

Phenol-d6

Concen: 0.057 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Tot Ion:	99	Resp:	133
Ion	Ratio	Lower	Upper
99	100		
42	20.3	11.2	16.8#
71	21.1	37.2	55.8#

Instrument :

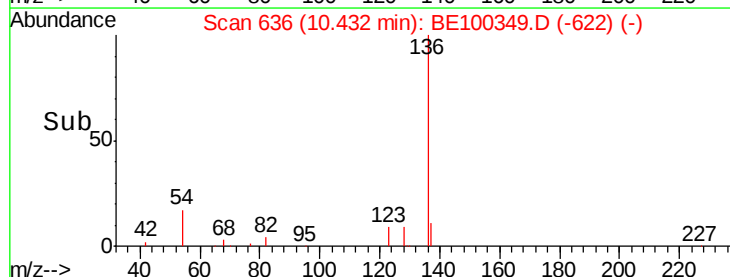
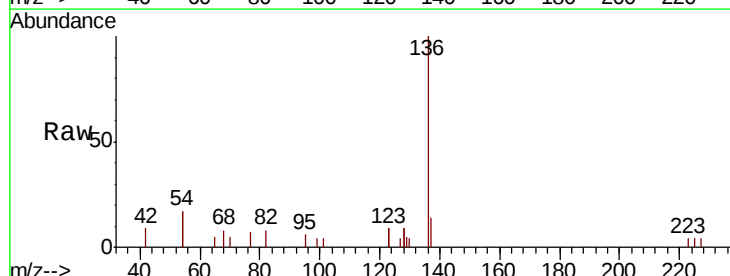
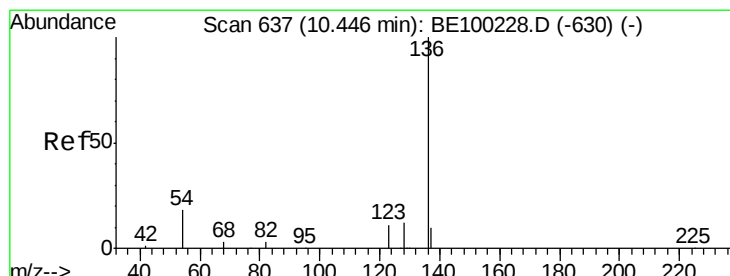
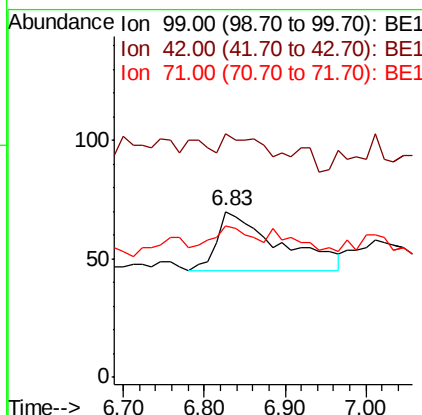
BNA_E

ClientSampleId :

EXT-012-SW153-062419

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM



#7

Naphthalene-d8

Concen: 0.400 ng

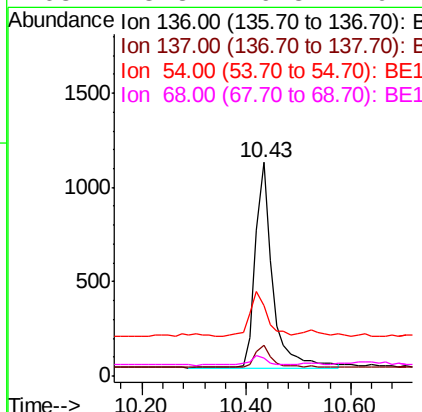
RT: 10.43 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Tgt Ion:	136	Resp:	2501
Ion	Ratio	Lower	Upper
136	100		
137	14.3	11.8	17.8
54	33.2	27.7	41.5
68	8.3	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.047 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Instrument :

BNA_E

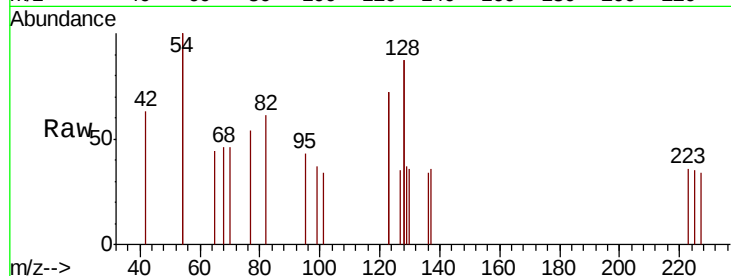
ClientSampleId :

EXT-012-SW153-062419

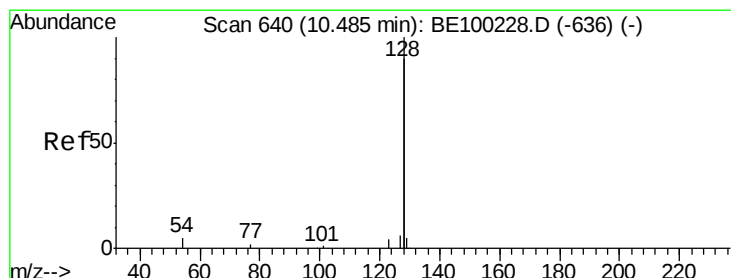
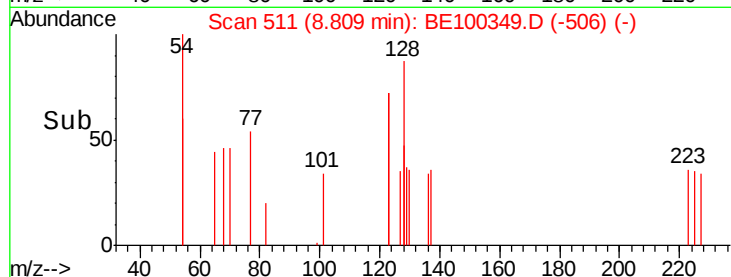
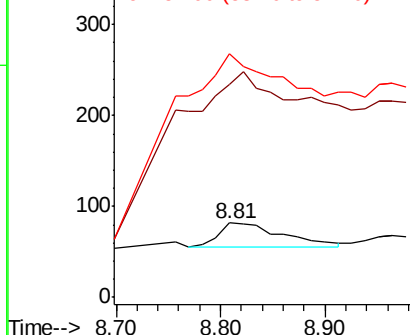
Tot Ion:	82	Resp:	117
Ion Ratio	Lower	Upper	
82	100		
128	285.4	140.9	211.3#
54	326.8	146.2	219.2#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM



Abundance Ion 82.00 (81.70 to 82.70): BE1
Ion 128.00 (127.70 to 128.70): BE1
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.089 ng

RT: 10.48 min Scan# 640

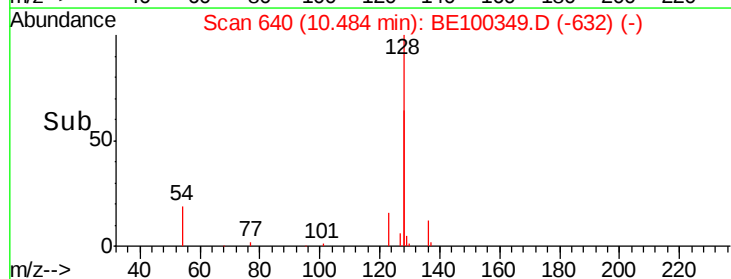
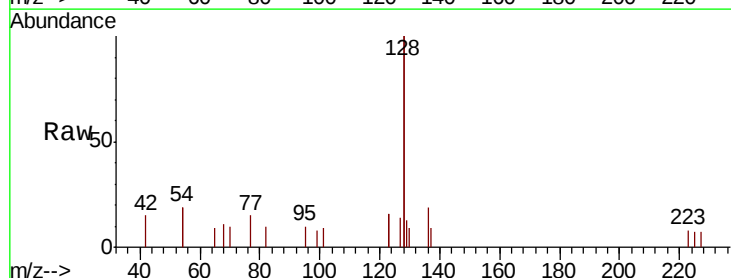
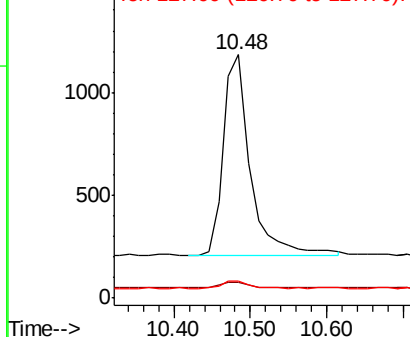
Delta R.T. -0.00 min

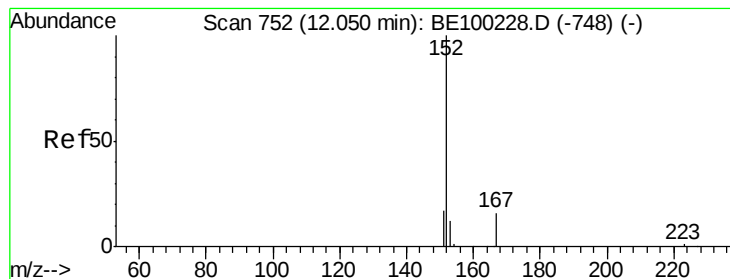
Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Tgt Ion:	128	Resp:	2444
Ion Ratio	Lower	Upper	
128	100		
129	6.7	3.0	4.6#
127	6.8	3.5	5.3#

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





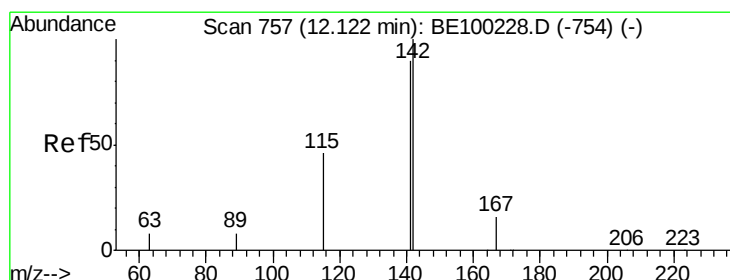
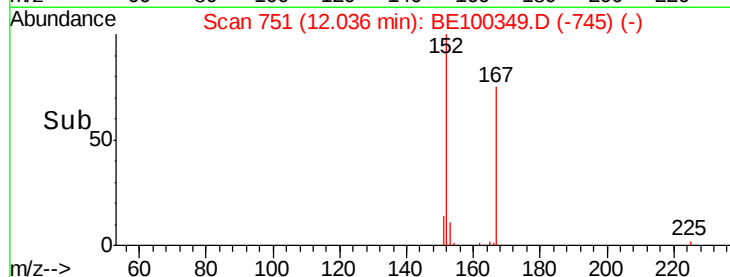
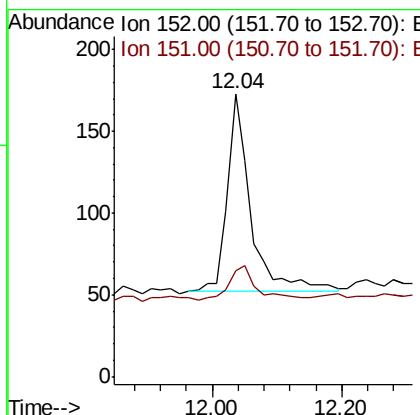
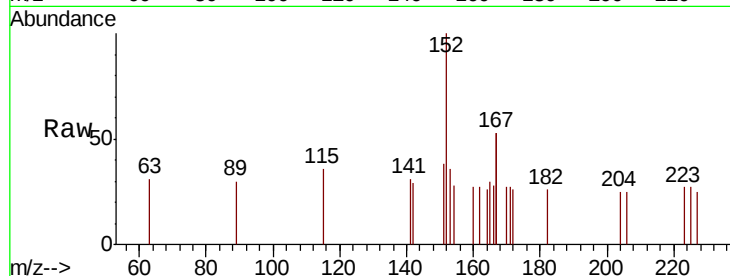
#11
2-Methylnaphthalene-d10
Concen: 0.064 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion:152 Resp: 303
Ion Ratio Lower Upper
152 100
151 19.8 15.1 22.7

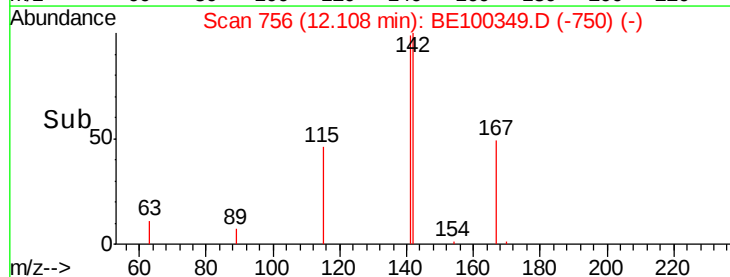
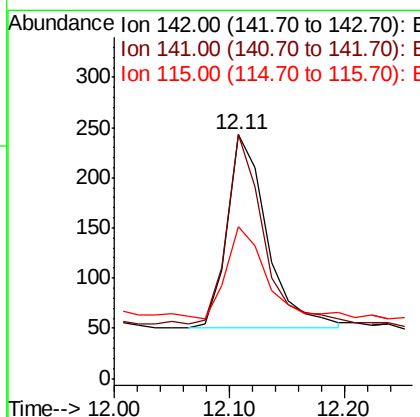
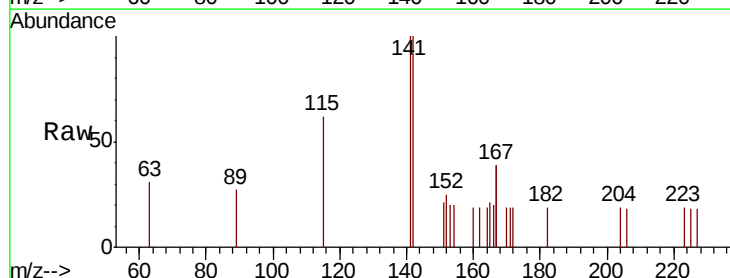
Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.11 min Scan# 756
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion:142 Resp: 466
Ion Ratio Lower Upper
142 100
141 100.0 72.4 108.6
115 62.1 40.4 60.6#





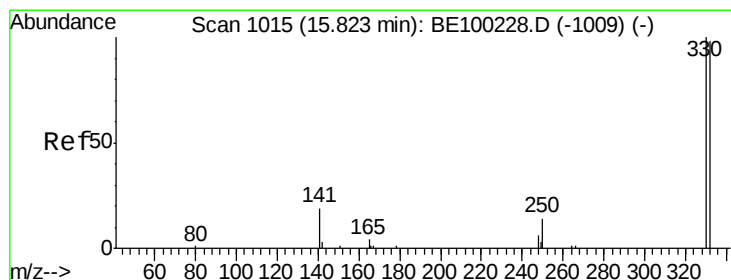
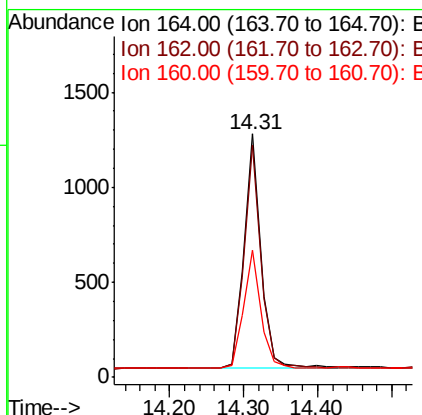
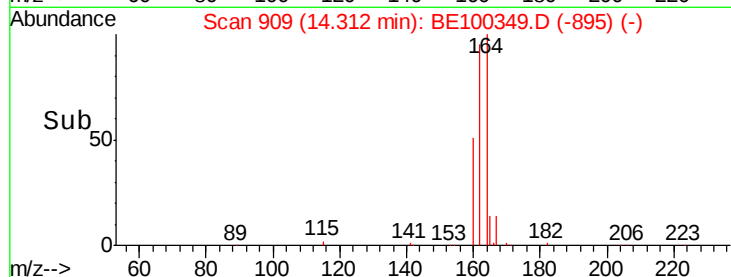
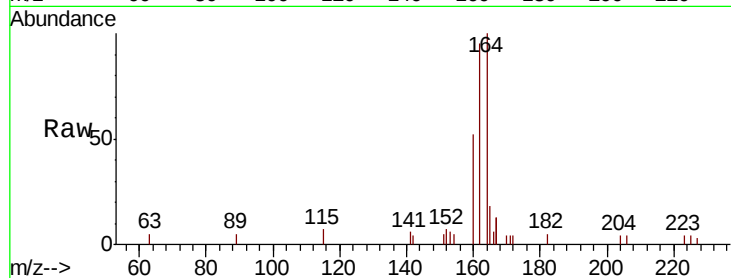
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. -0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
164	100		
162	95.5	83.4	125.0
160	52.4	45.0	67.6

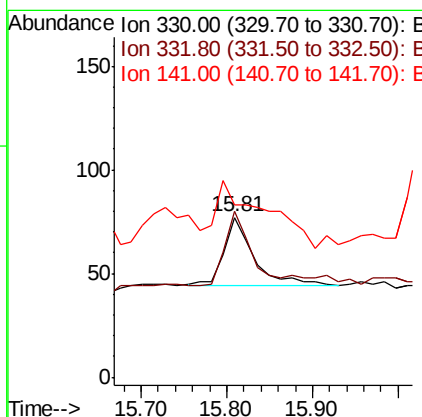
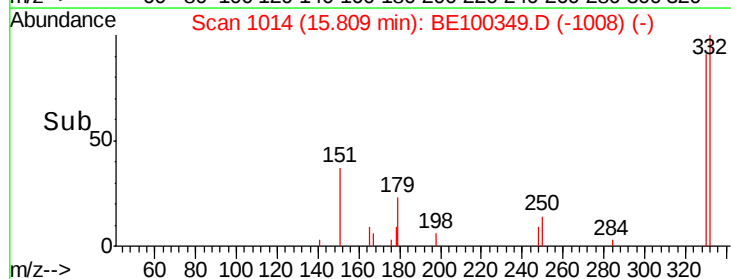
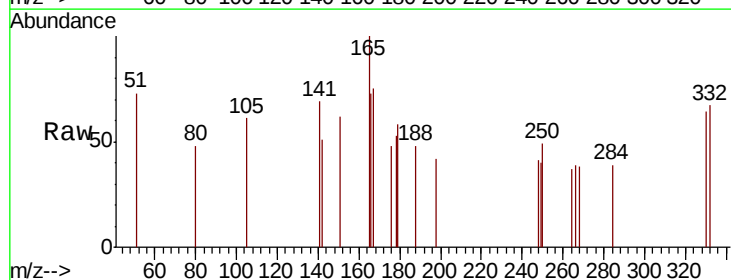
Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM



#14
2,4,6-Tribromophenol
Concen: 0.060 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	117.3	77.0	115.4#
141	163.0	22.0	33.0#





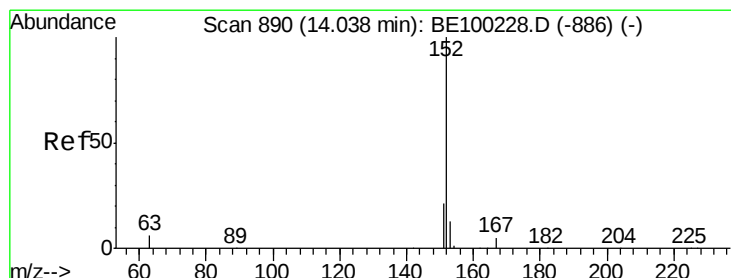
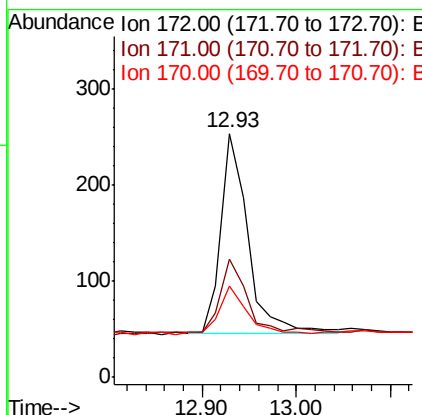
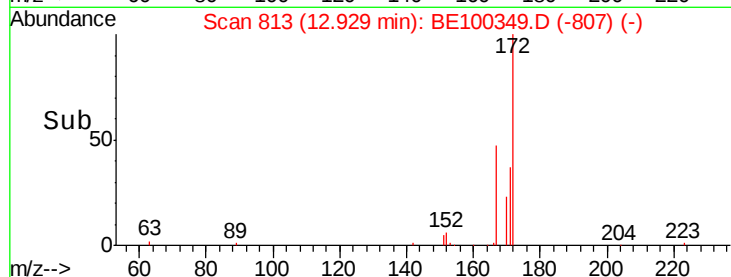
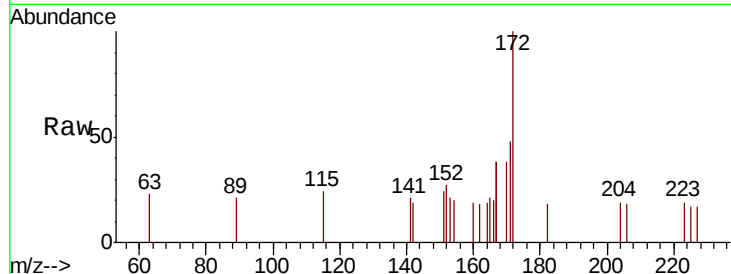
#15
2-Fluorobiphenyl
Concen: 0.055 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
172	100		
171	48.2	31.9	47.9#
170	37.5	22.2	33.2#

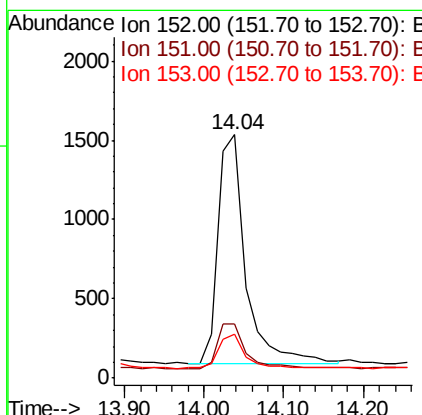
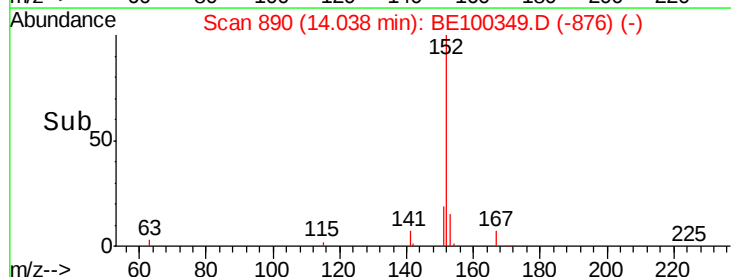
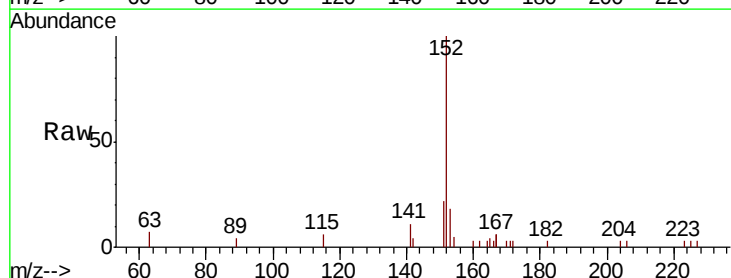
Manual Integrations
APPROVED

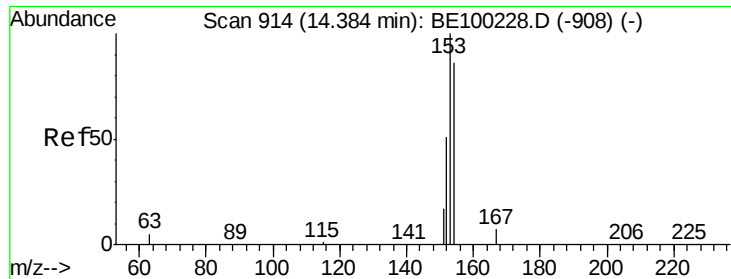
mohammad
7/5/2019 8:54:55 AM



#16
Acenaphthylene
Concen: 0.369 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0
153	14.2	10.5	15.7





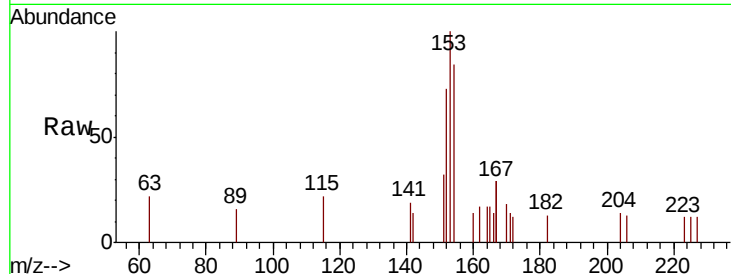
#17
Acenaphthene
Concen: 0.078 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
154	100		
153	120.0	93.4	140.2
152	87.1	49.4	74.2

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM

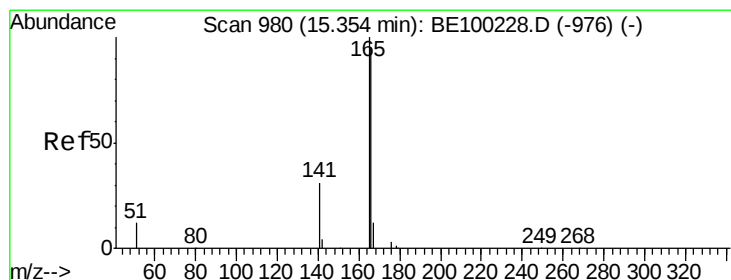
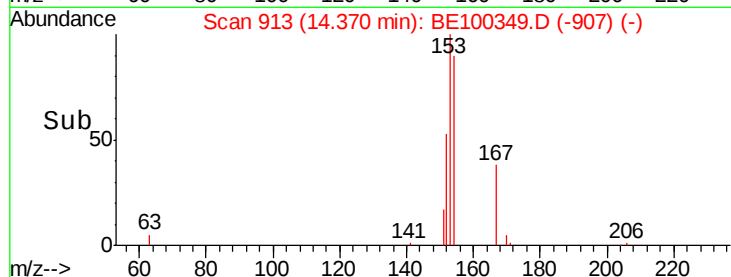
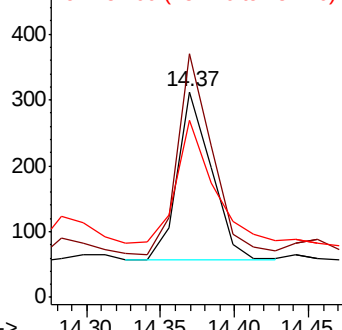


Abundance

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



#18
Fluorene
Concen: 0.156 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

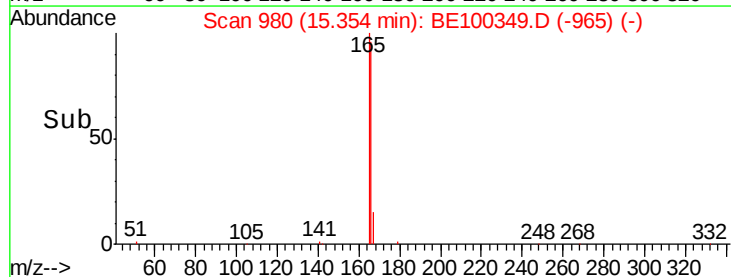
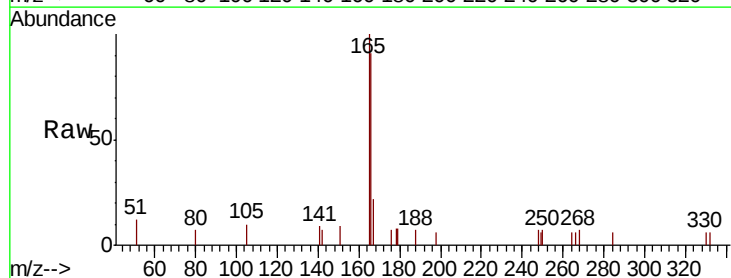
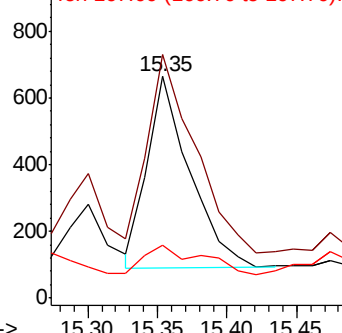
Tgt Ion	Ratio	Lower	Upper
166	100		
165	115.0	81.1	121.7
167	21.3	10.7	16.1

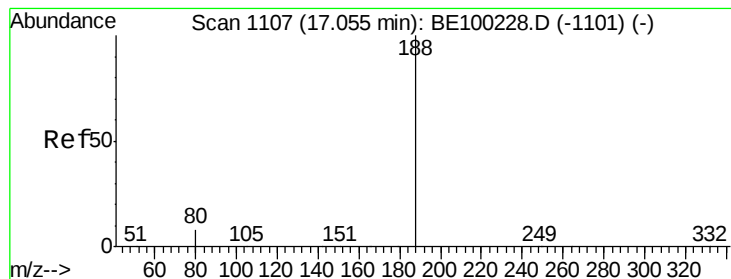
Abundance

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Instrument :

BNA_E

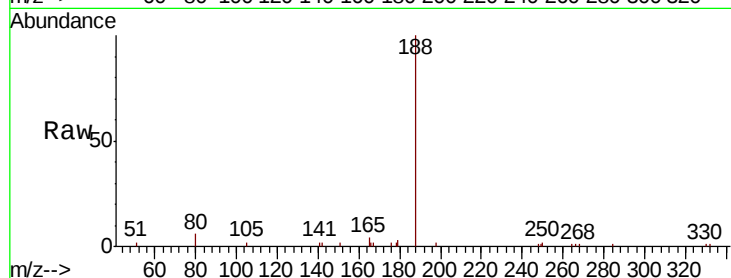
ClientSampleId :

EXT-012-SW153-062419

Tot Ion:	188	Resp:	5627
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	6.3	7.6	11.4#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM

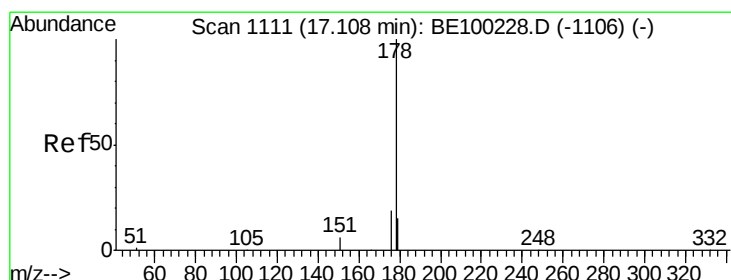
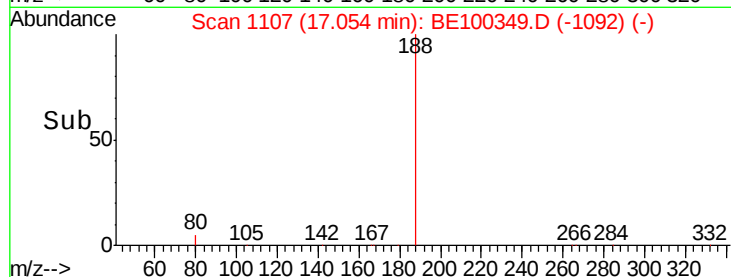
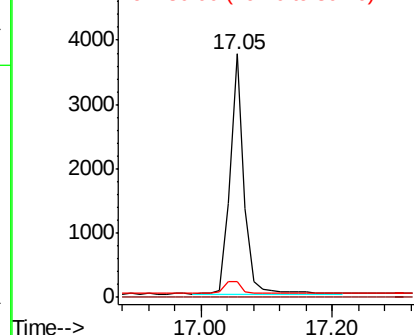


Abundance

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: 2.522 ng

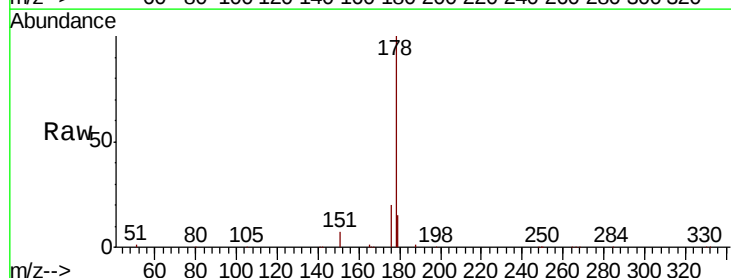
RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Tgt Ion:	178	Resp:	34398
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.9	23.9
179	15.3	12.2	18.2

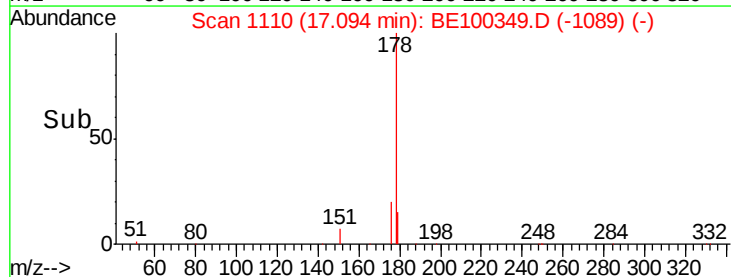
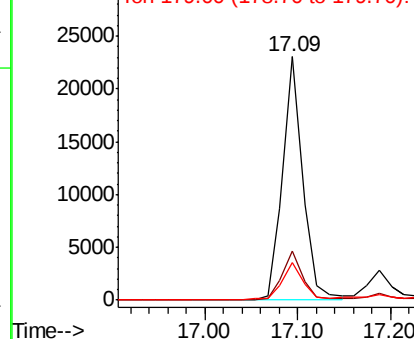


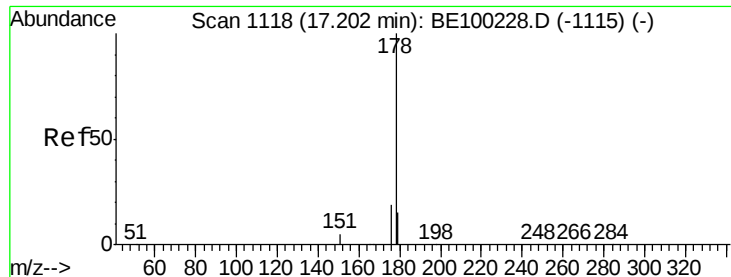
Abundance

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





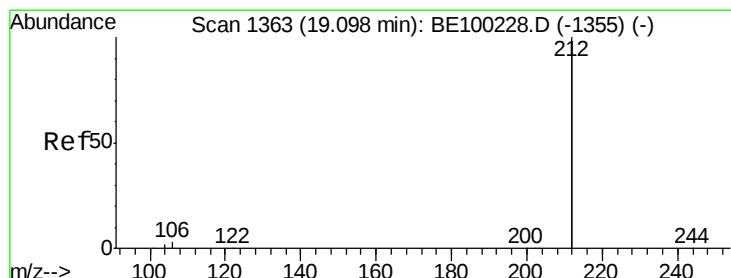
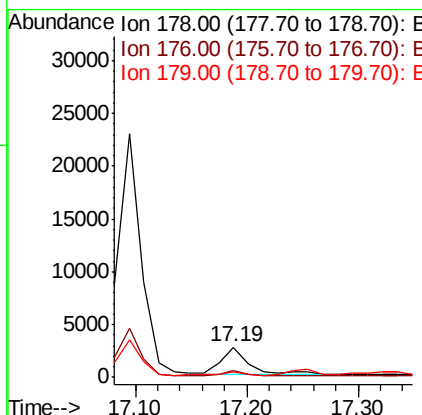
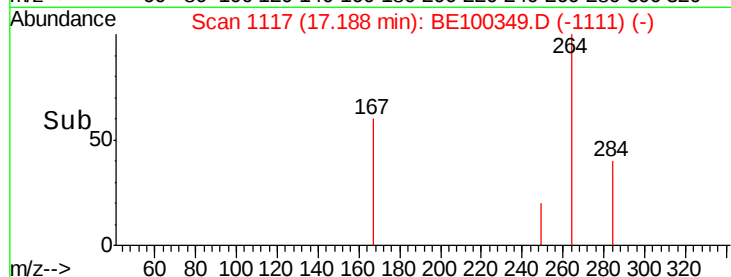
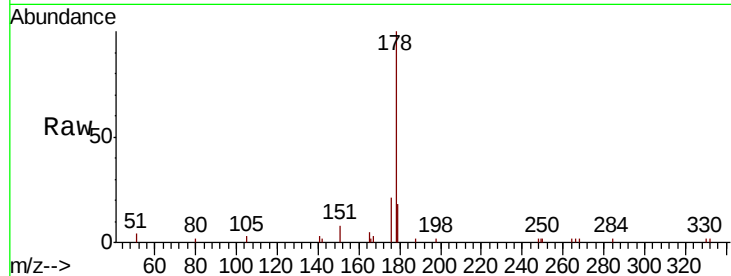
#24
 Anthracene
 Concen: 0.358 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.01 min
 Lab File: BE100349.D
 Acq: 4 Jul 2019 3:38

Instrument :
 BNA_E
 ClientSampleId :
 EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.3	22.9
179	12.7	12.2	18.2

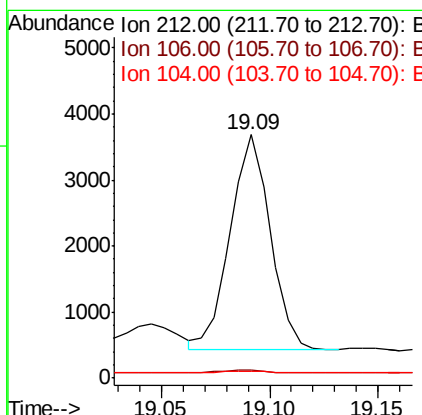
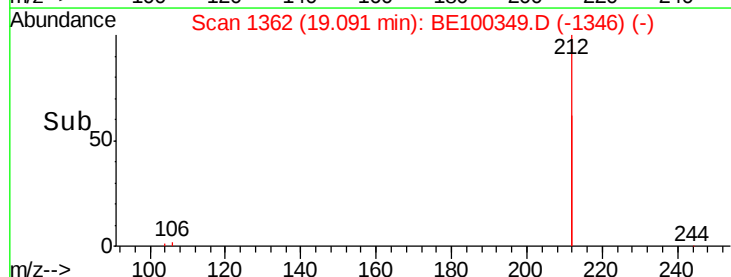
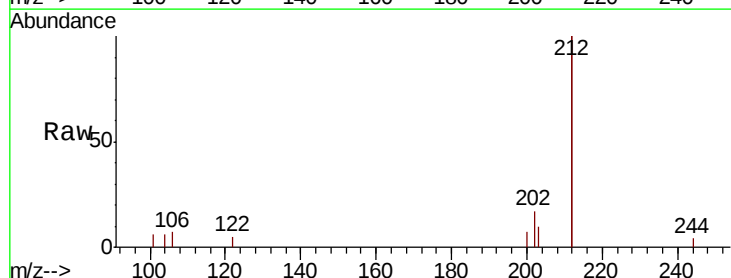
Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:54:55 AM



#25
 Fluoranthene-d10
 Concen: 0.052 ng
 RT: 19.09 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: BE100349.D
 Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
212	100		
106	2.0	1.3	1.9#
104	1.0	0.8	1.2





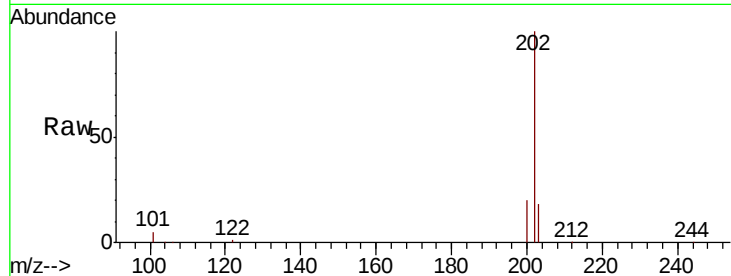
#26
 Fluoranthene
 Concen: 3.651 ng
 RT: 19.12 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: BE100349.D
 Acq: 4 Jul 2019 3:38

Instrument :
 BNA_E
 ClientSampleId :
 EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.4	4.6	7.0
203	17.7	13.7	20.5

Manual Integrations
 APPROVED

mohammad
 7/5/2019 8:54:55 AM

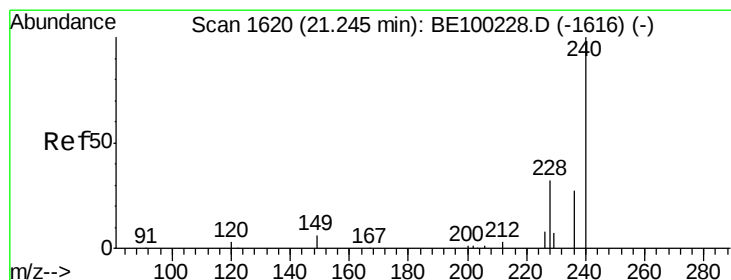
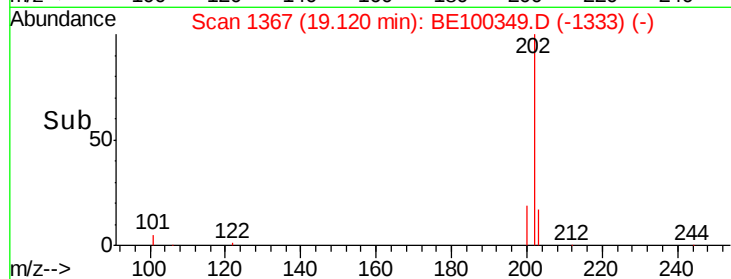
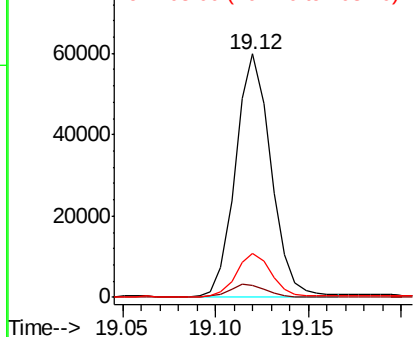


Abundance

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: BE100349.D
 Acq: 4 Jul 2019 3:38

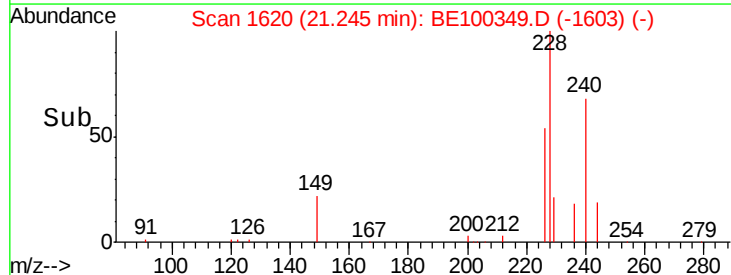
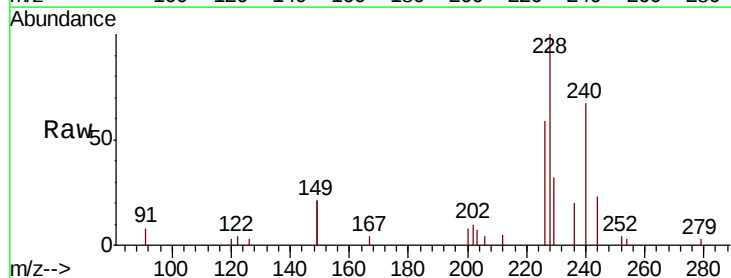
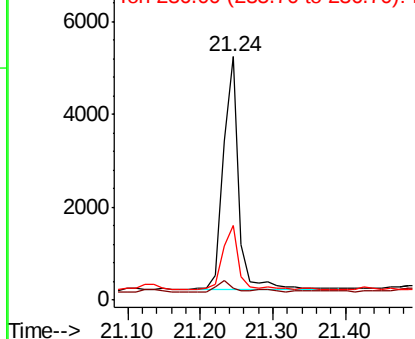
Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.1	3.3	4.9#
236	30.4	22.6	34.0

Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





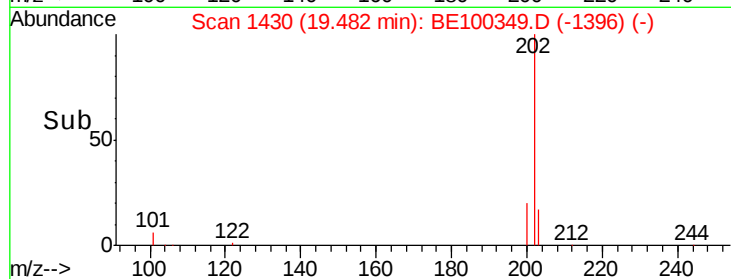
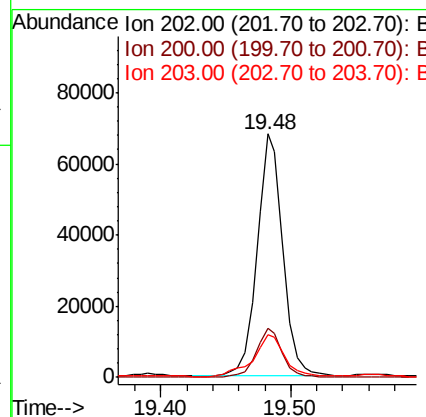
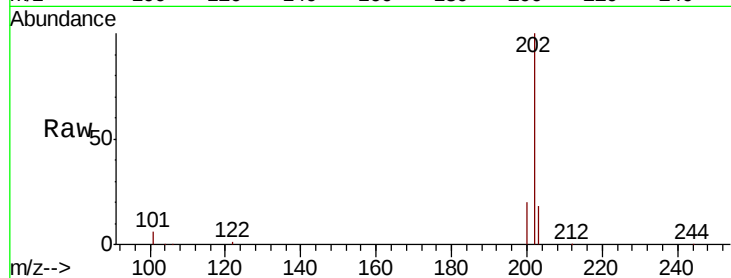
#28
Pvrene
Concen: 4.813 ng
RT: 19.48 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.6	23.4
203	20.8	14.0	21.0

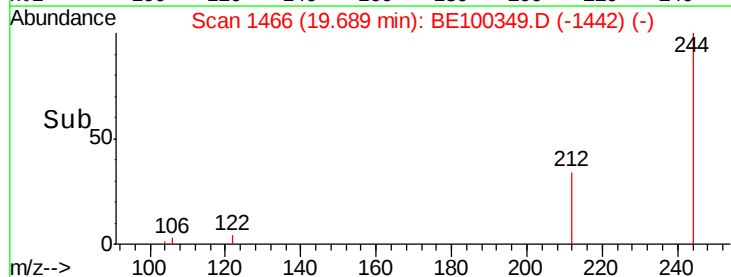
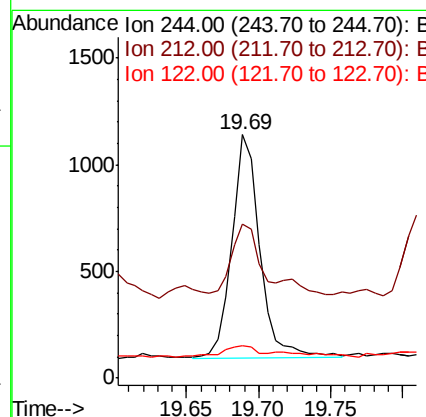
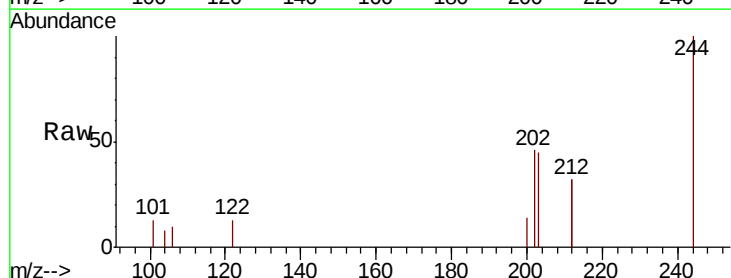
Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM



#29
Terphenyl-d14
Concen: 0.092 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
244	100		
212	63.3	27.3	40.9#
122	13.2	4.7	7.1#





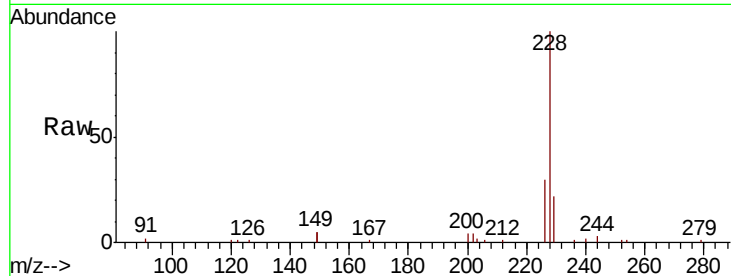
#30
Benzo(a)anthracene
Concen: 2.122 ng
RT: 21.22 min Scan# 1618
Delta R.T. -0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.2	34.8
229	22.4	15.7	23.5

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM

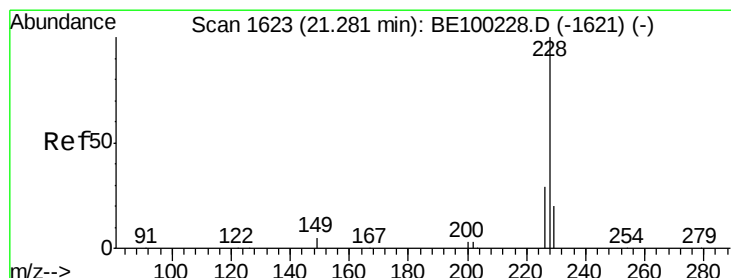
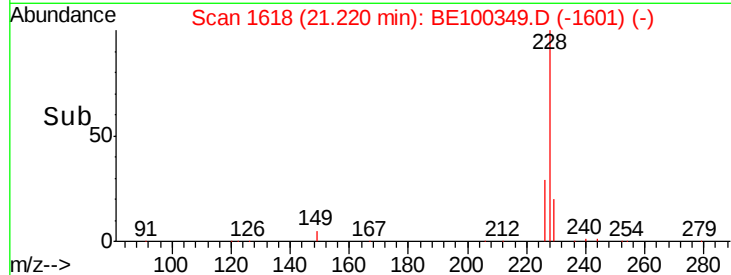
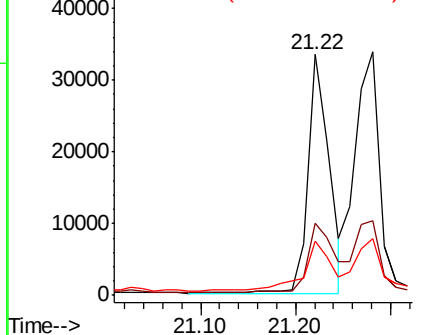


Abundance

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: 2.431 ng
RT: 21.28 min Scan# 1623
Delta R.T. -0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

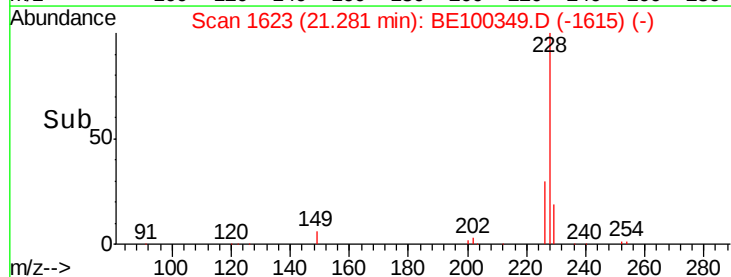
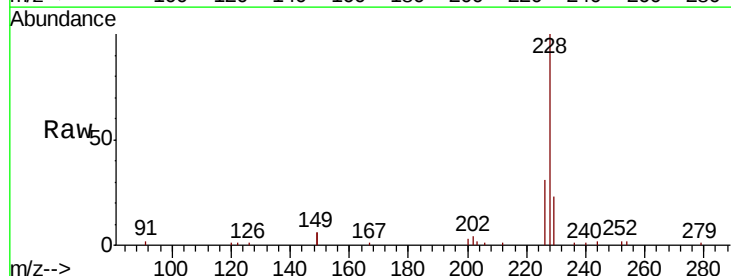
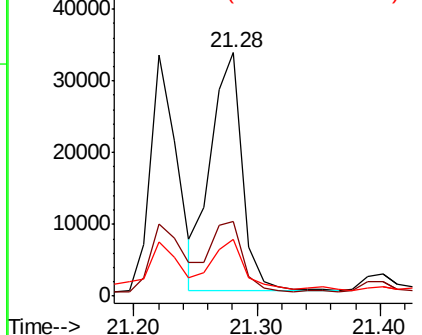
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.9	35.9
229	23.1	16.5	24.7

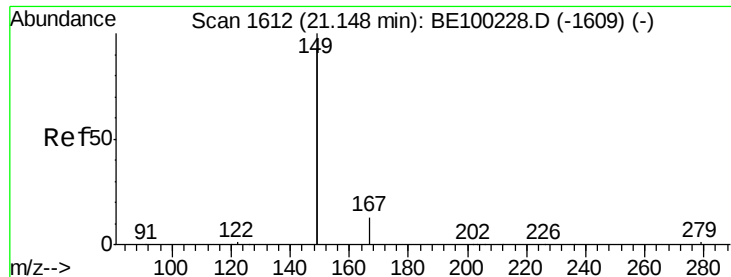
Abundance

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





#32

Bis(2-ethylhexyl)phthalate

Concen: 4.384 ng

RT: 21.15 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Instrument :

BNA_E

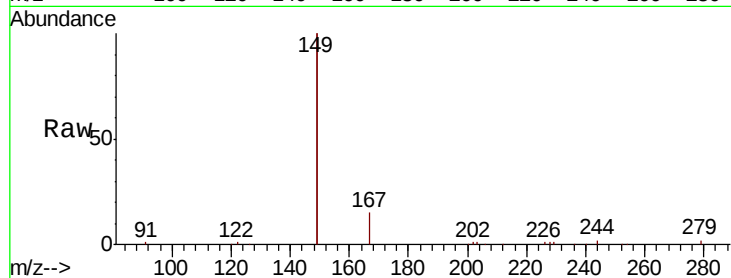
ClientSampleId :

EXT-012-SW153-062419

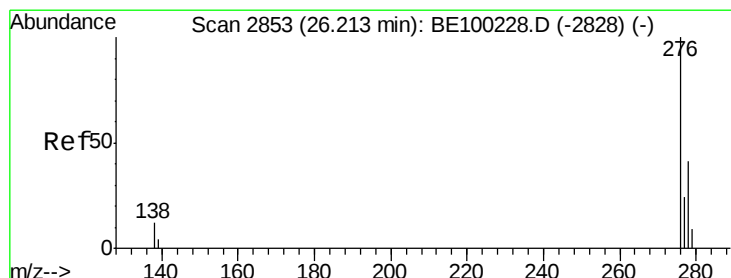
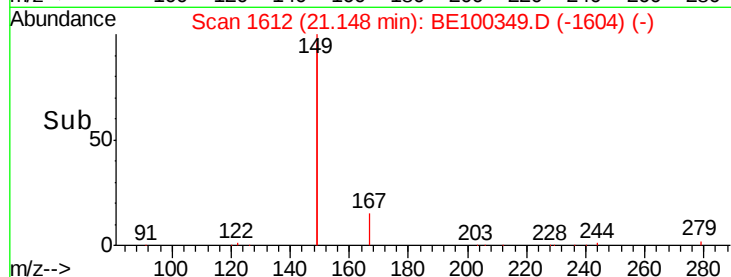
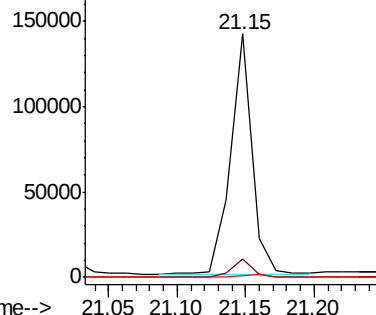
Tot Ion:	149	Resp:	151830
Ion Ratio	Lower	Upper	
149	100		
167	7.2	5.8	8.8
279	1.5	1.1	1.7

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 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: 1.147 ng

RT: 26.22 min Scan# 2854

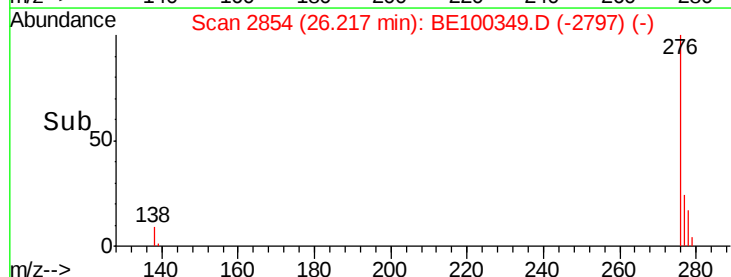
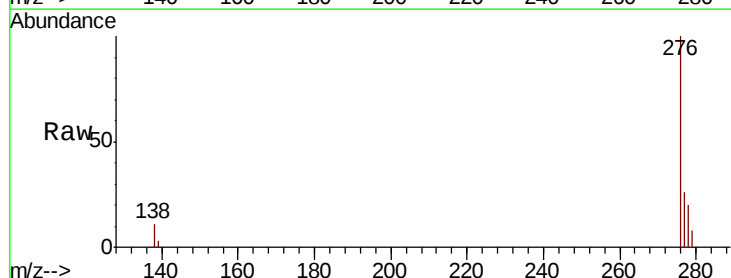
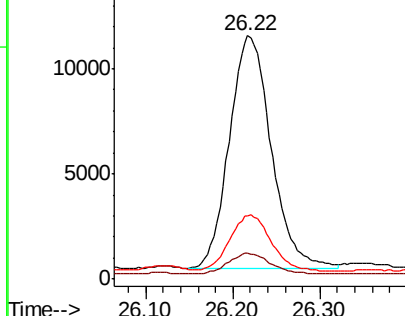
Delta R.T. 0.00 min

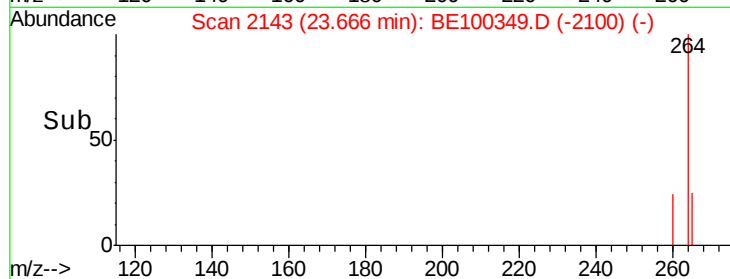
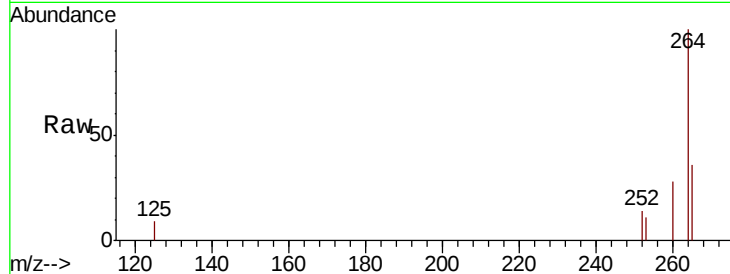
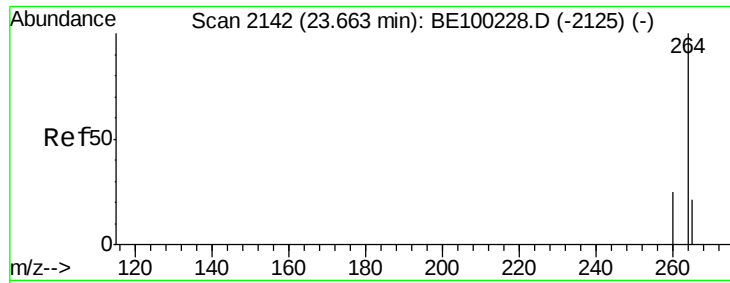
Lab File: BE100349.D

Acq: 4 Jul 2019 3:38

Tgt Ion:	276	Resp:	36839
Ion Ratio	Lower	Upper	
276	100		
138	8.8	9.4	14.0#
277	23.9	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





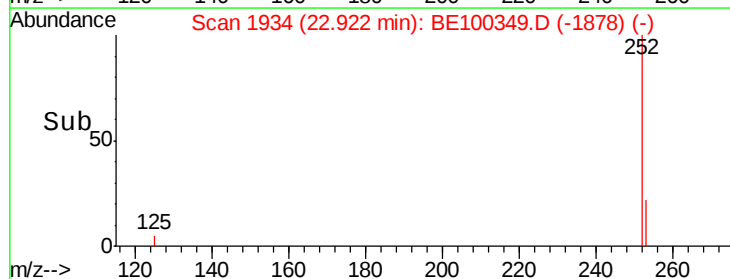
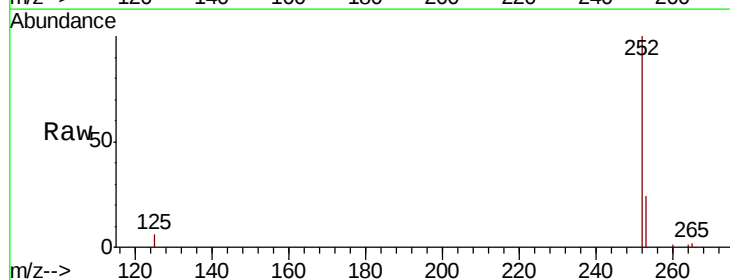
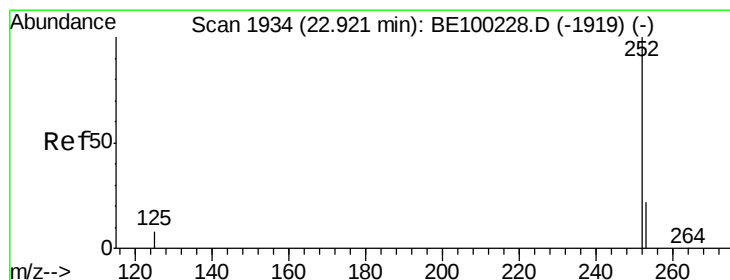
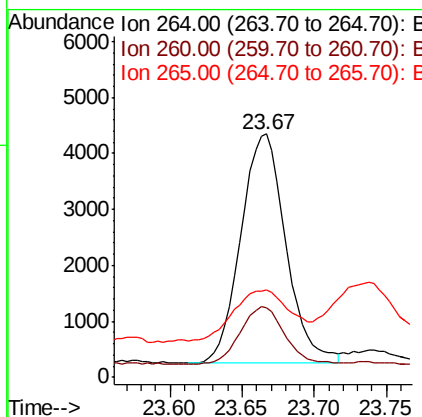
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
264	100		
260	28.4	20.8	31.2
265	36.1	21.8	32.6

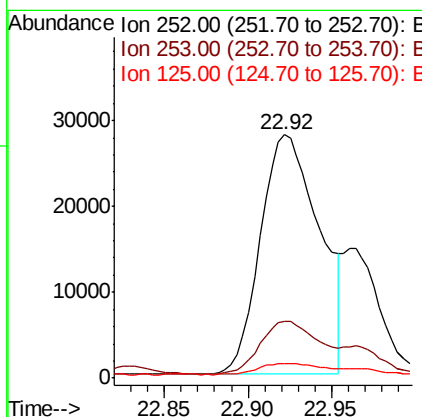
Manual Integrations
APPROVED

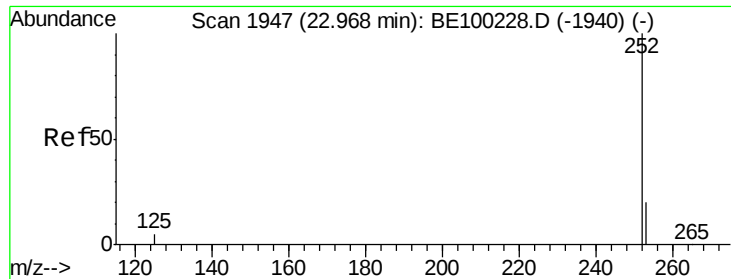
mohammad
7/5/2019 8:54:55 AM



#35
Benzo(b)fluoranthene
Concen: 2.882 ng
RT: 22.92 min Scan# 1934
Delta R.T. 0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	19.2	28.8
125	6.0	7.4	11.0





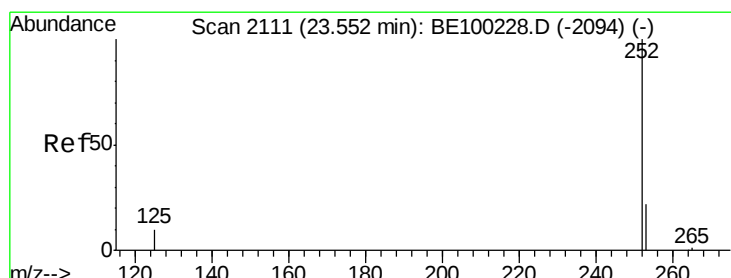
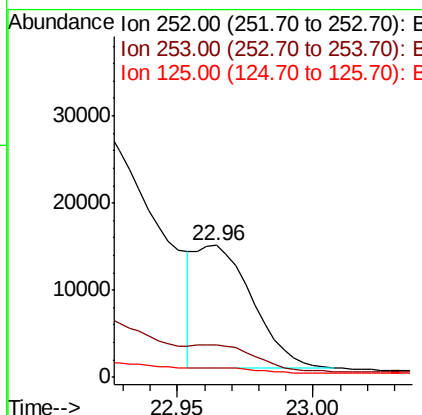
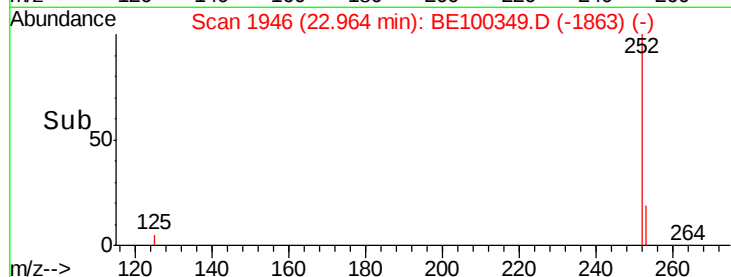
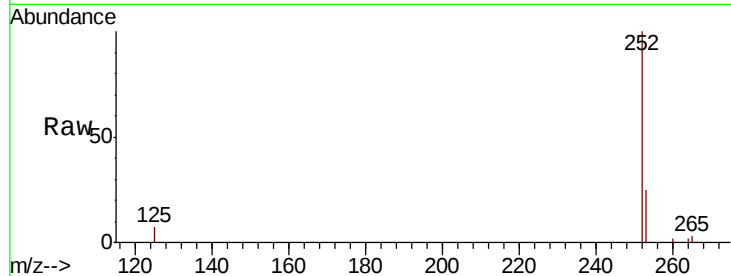
#36
Benzo(k)fluoranthene
Concen: 0.775 ng m
RT: 22.96 min Scan# 1946
Delta R.T. -0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	7.4	5.0	7.4

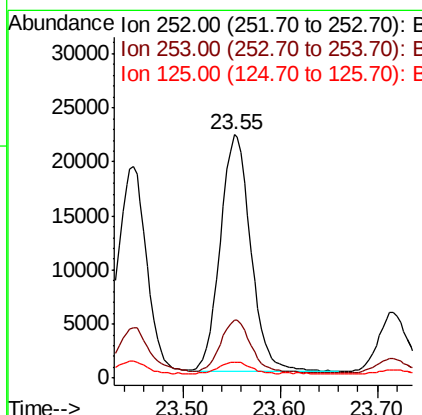
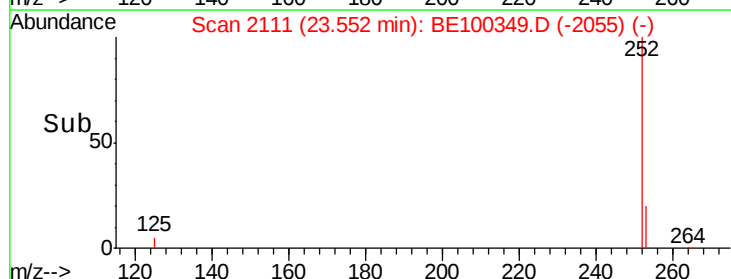
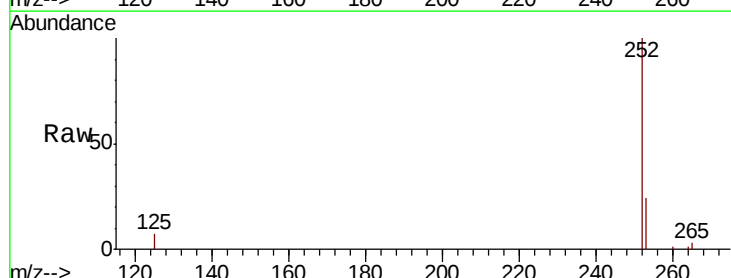
Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM



#37
Benzo(a)pyrene
Concen: 2.010 ng
RT: 23.55 min Scan# 2111
Delta R.T. 0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	19.6	29.4
125	6.5	9.0	13.6#





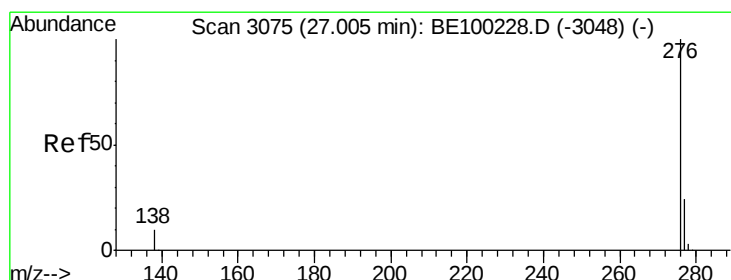
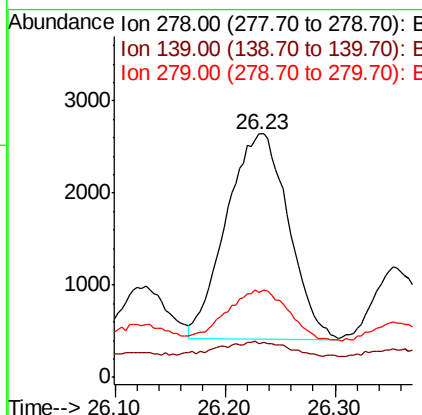
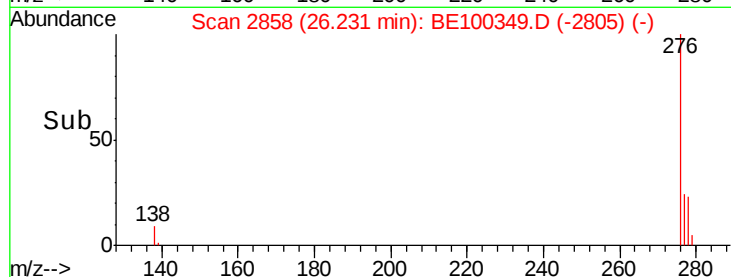
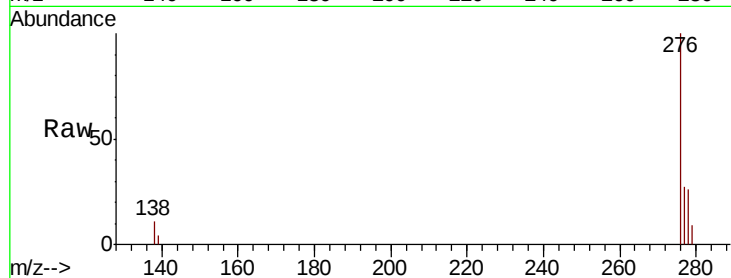
#38
Dibenzo(a,h)anthracene
Concen: 0.351 ng
RT: 26.23 min Scan# 2858
Delta R.T. -0.01 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Instrument :
BNA_E
ClientSampleId :
EXT-012-SW153-062419

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.0	8.2	12.2#
279	34.7	20.3	30.5#

Manual Integrations
APPROVED

mohammad
7/5/2019 8:54:55 AM



#39
Benzo(g,h,i)perylene
Concen: 1.657 ng
RT: 27.01 min Scan# 3076
Delta R.T. 0.00 min
Lab File: BE100349.D
Acq: 4 Jul 2019 3:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	20.2	30.2
138	10.7	9.0	13.6

