

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE012220\
 Data File : BE101124.D
 Acq On : 22 Jan 2020 21:00
 Operator : CG/JU
 Sample : L1148-12
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-33-(5-7)

Manual Integrations
 APPROVED

mohammad
 1/23/2020 1:53:57 PM

Quant Time: Jan 23 10:18:36 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 08 18:36:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	3189	0.40	ng	-0.02
7) Naphthalene-d8	10.50	136	16301	0.40	ng	0.00
13) Acenaphthene-d10	14.36	164	13488	0.40	ng	0.00
19) Phenanthrene-d10	17.09	188	20638	0.40	ng	0.00
27) Chrysene-d12	21.32	240	26595	0.40	ng	0.04
34) Perylene-d12	23.77	264	20369	0.40	ng	0.06

System Monitoring Compounds						
4) 2-Fluorophenol	5.34	112	3467	0.48	ng	0.00
5) Phenol-d6	6.91	99	4728	0.52	ng	-0.01
8) Nitrobenzene-d5	8.86	82	3572	0.31	ng	-0.01
11) 2-Methylnaphthalene-d10	12.09	152	5519	0.18	ng	-0.01
14) 2,4,6-Tribromophenol	15.85	330	1106	0.29	ng	0.00
15) 2-Fluorobiphenyl	12.99	172	7781	0.15	ng	-0.01
25) Fluoranthene-d10	19.17	212	70125m	0.24	ng	0.03
29) Terphenyl-d14	19.75	244	16697	0.26	ng	0.01

Target Compounds					Qvalue	
9) Naphthalene	10.55	128	30021542	165.864	ng	# 98
12) 2-Methylnaphthalene	12.17	142	935017	34.151	ng	100
16) Acenaphthylene	14.08	152	997202	18.152	ng	99
17) Acenaphthene	14.41	154	316944	8.061	ng	98
18) Fluorene	15.39	166	1168861	23.518	ng	99
22) Pentachlorophenol	16.77	266	3179	1.073	ng	84
23) Phenanthrene	17.15	178	4873723	86.481	ng	95
24) Anthracene	17.23	178	1721420	32.371	ng	98
26) Fluoranthene	19.20	202	4559909	64.610	ng	97
28) Pylene	19.56	202	4061272	41.023	ng	# 94
30) Benzo(a)anthracene	21.31	228	2471144	32.563	ng	# 92
31) Chrysene	21.35	228	1885835	16.720	ng	# 92
33) Indeno(1,2,3-cd)pyrene	26.35	276	1318655	14.797	ng	97
35) Benzo(b)fluoranthene	23.03	252	2413240	42.244	ng	# 92
36) Benzo(k)fluoranthene	23.07	252	841813m	10.169	ng	
37) Benzo(a)pyrene	23.67	252	1806568	32.691	ng	98
38) Dibenzo(a,h)anthracene	26.35	278	336153	6.614	ng	# 96
39) Benzo(a,h,i)perylene	27.15	276	1338204	21.411	ng	99

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

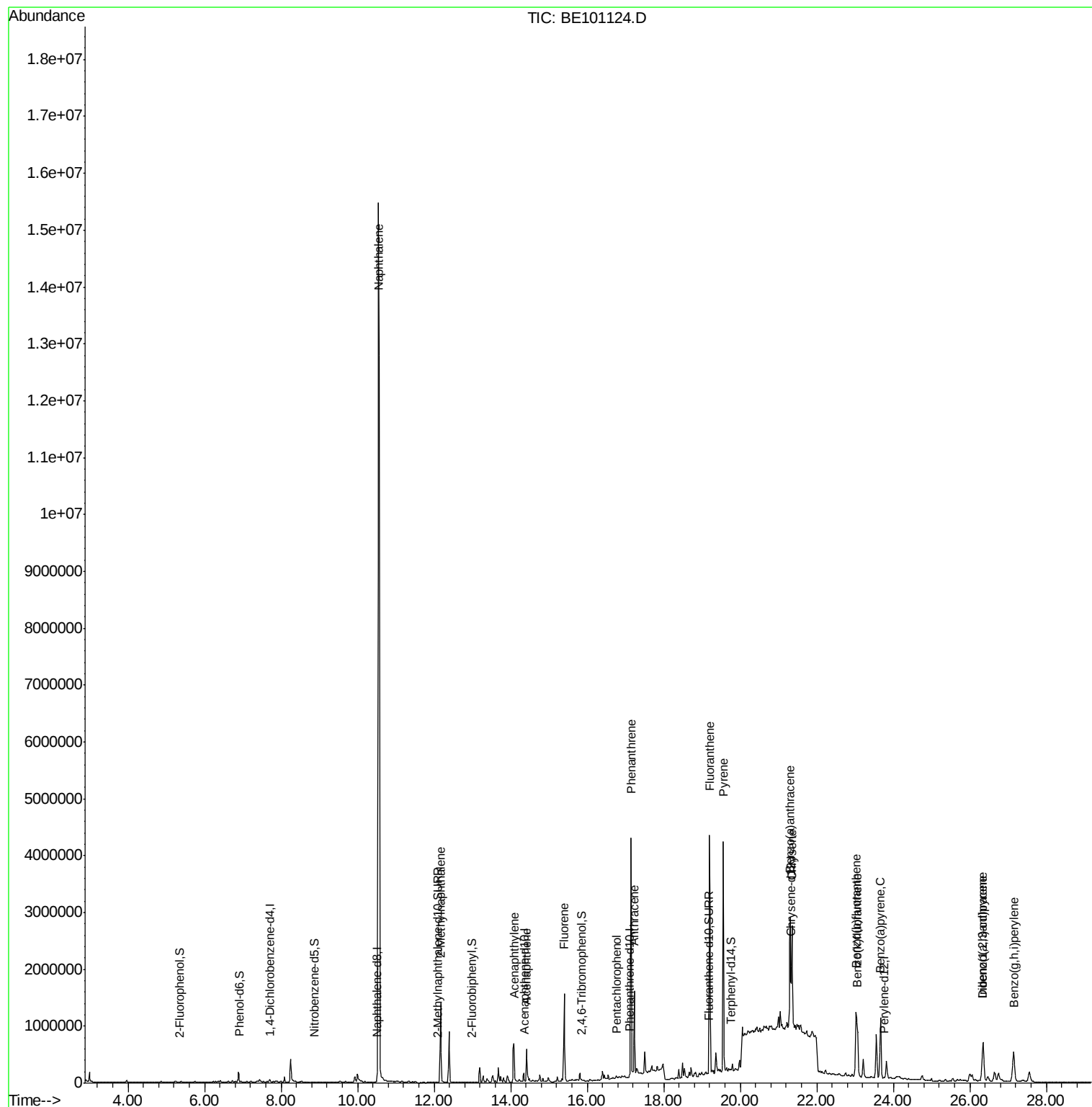
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE012220\
Data File : BE101124.D
Acq On : 22 Jan 2020 21:00
Operator : CG/JU
Sample : L1148-12
Misc :
ALS Vial : 12 Sample Multiplier: 1

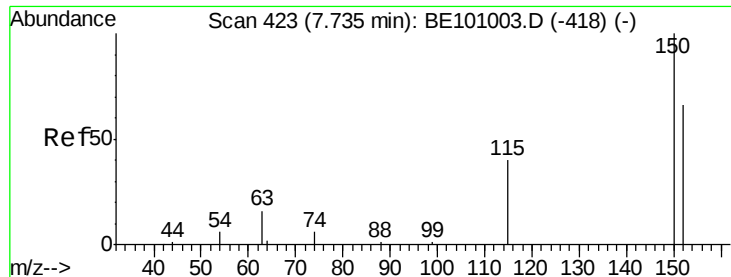
Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Manual Integrations
APPROVED

mohammad
1/23/2020 1:53:57 PM

Quant Time: Jan 23 10:18:36 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 08 18:36:25 2020
Response via : Initial Calibration





#1

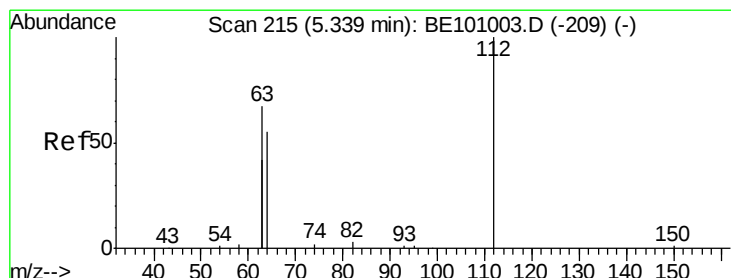
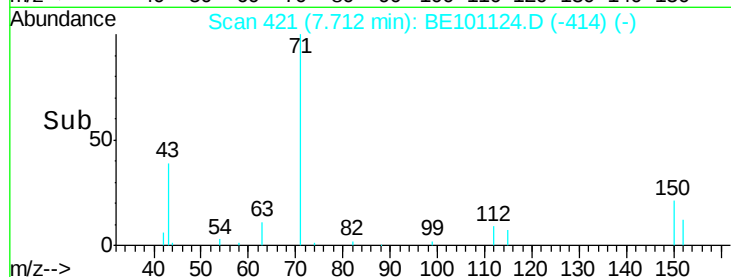
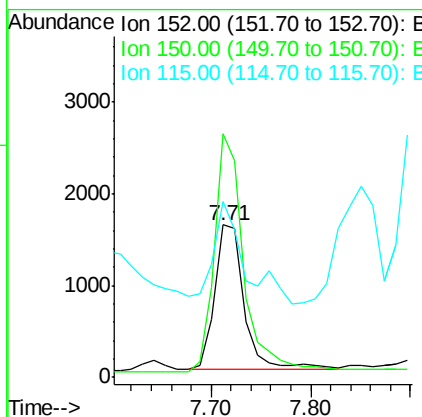
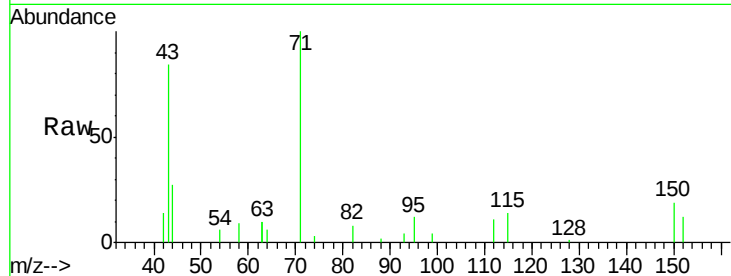
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.71 min Scan# 421
Delta R.T. -0.02 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	120.3	180.5
115	115.1	51.7	77.5

Manual Integrations
APPROVED

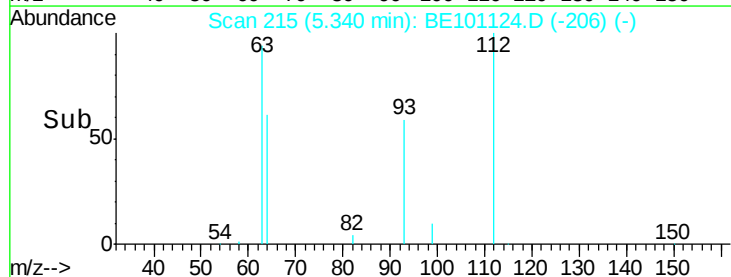
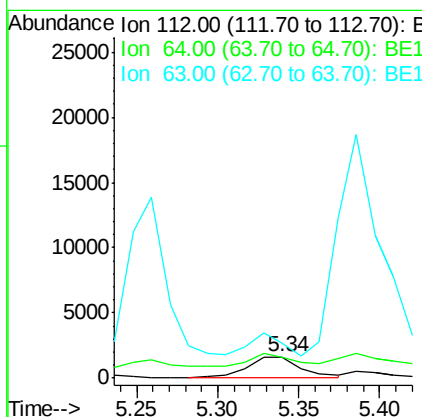
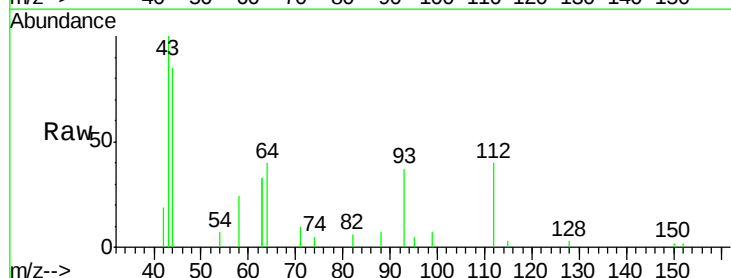
mohammad
1/23/2020 1:53:57 PM

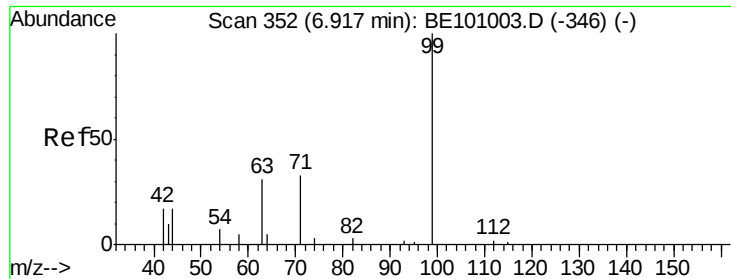


#4

2-Fluorophenol
Concen: 0.483 ng
RT: 5.34 min Scan# 215
Delta R.T. 0.00 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.8	53.6	80.4
63	67.1	114.6	172.0





#5

Phenol-d6

Concen: 0.521 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.01 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Instrument :

BNA_E

ClientSampleId :

SB-33-(5-7)

Tot Ion: 99 Resp: 4728

Ion Ratio Lower Upper

99 100

42 0.0 18.3 27.5#

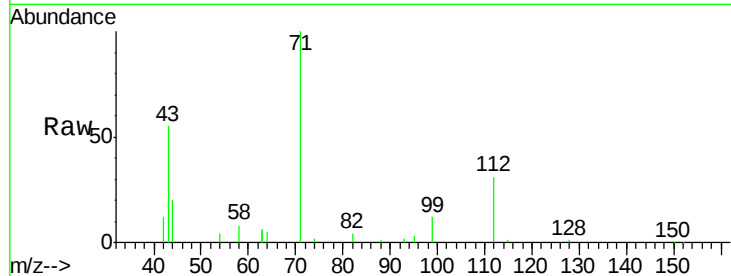
71 2850.1 28.0 42.0#

Manual Integrations

APPROVED

mohammad

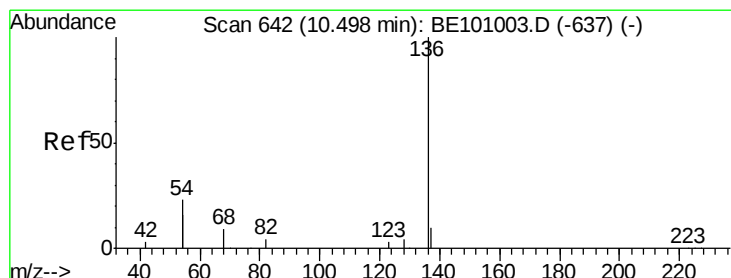
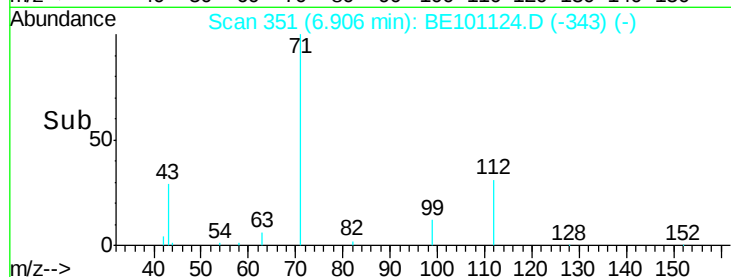
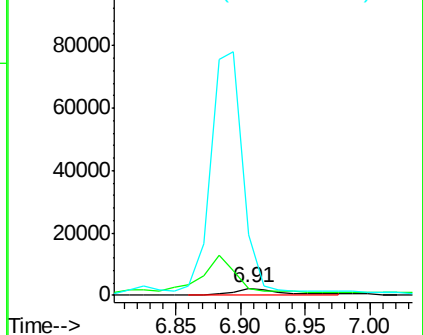
1/23/2020 1:53:57 PM



Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.50 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Tgt Ion: 136 Resp: 16301

Ion Ratio Lower Upper

136 100

137 13.6 9.3 13.9

54 44.5 36.8 55.2

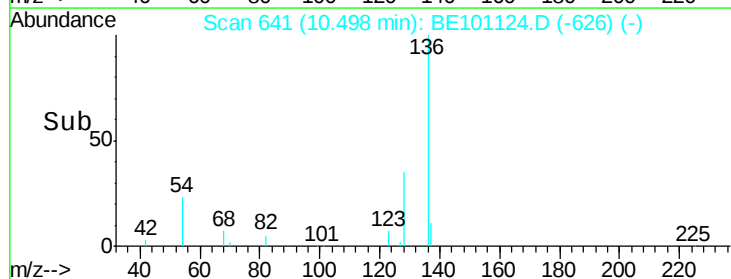
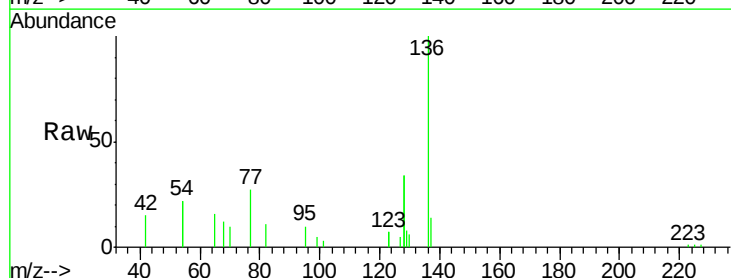
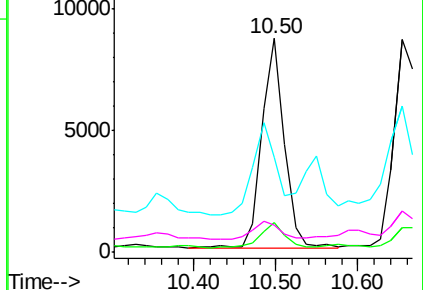
68 12.4 8.4 12.6

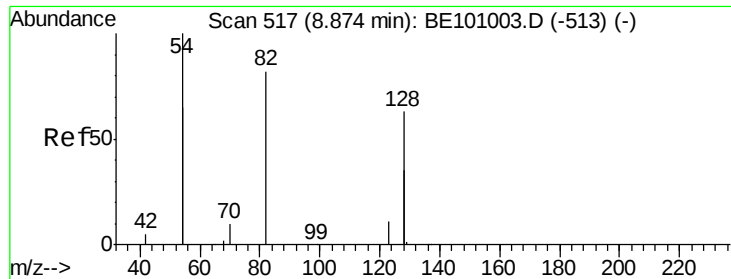
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1





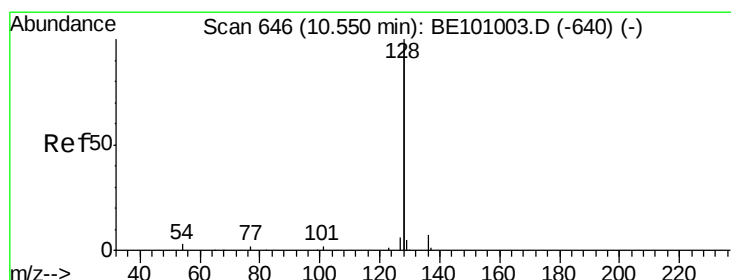
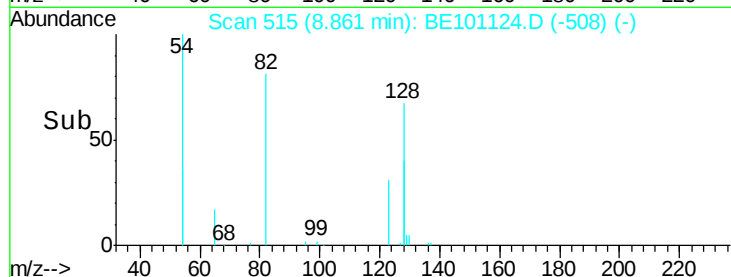
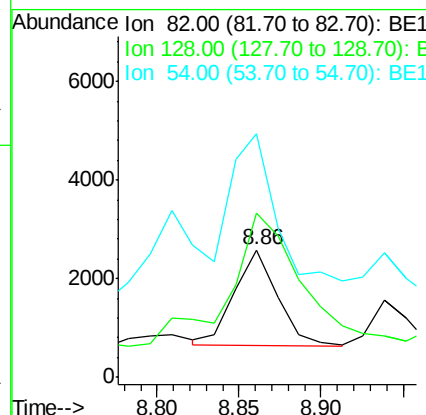
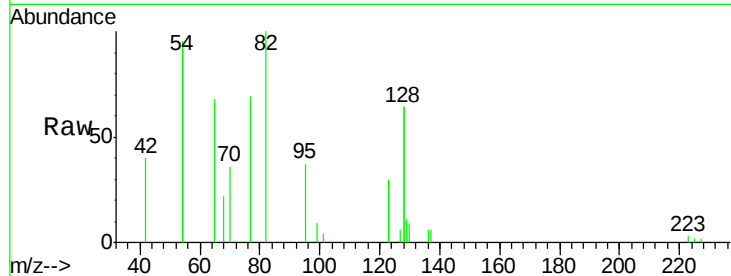
#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.86 min Scan# 515
Delta R.T. -0.01 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
82	100		
128	128.1	109.8	164.6
54	190.6	174.5	261.7

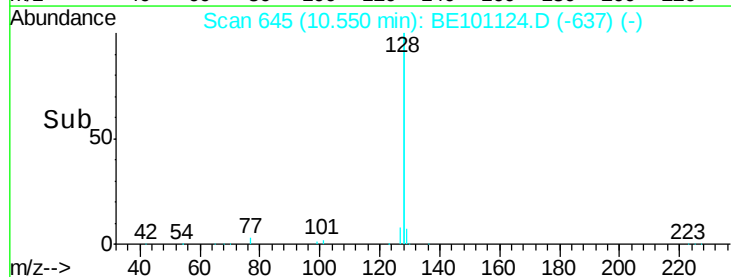
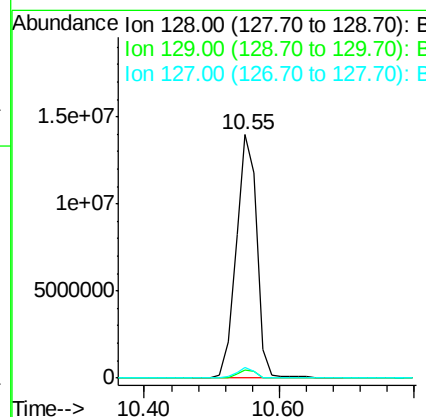
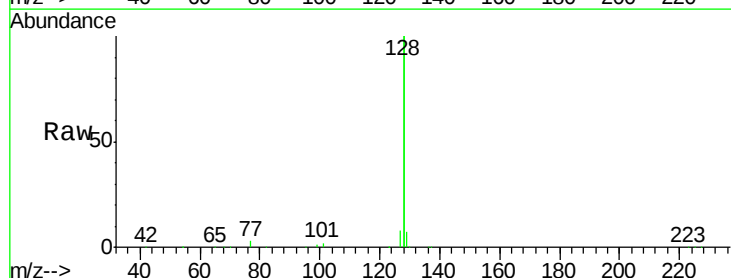
Manual Integrations
APPROVED

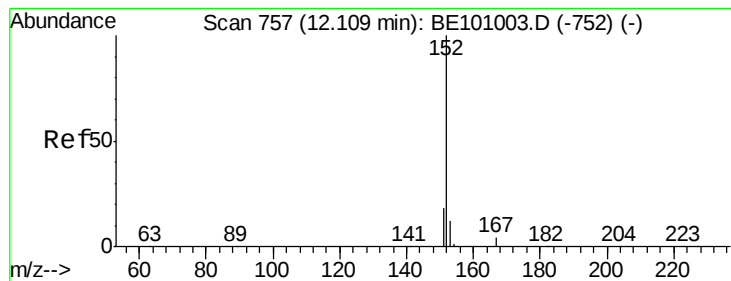
mohammad
1/23/2020 1:53:57 PM



#9
Naphthalene
Concen: 165.864 ng
RT: 10.55 min Scan# 645
Delta R.T. -0.00 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
128	100		
129	3.3	2.3	3.5
127	4.2	2.7	4.1#





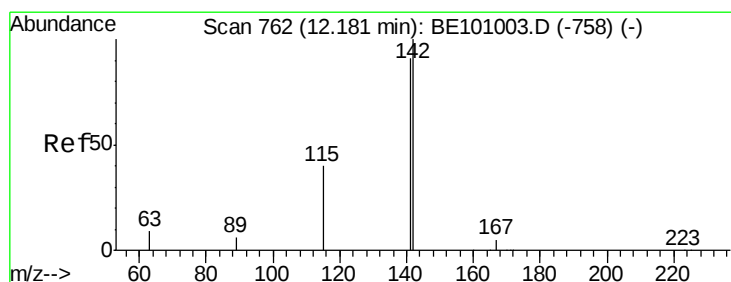
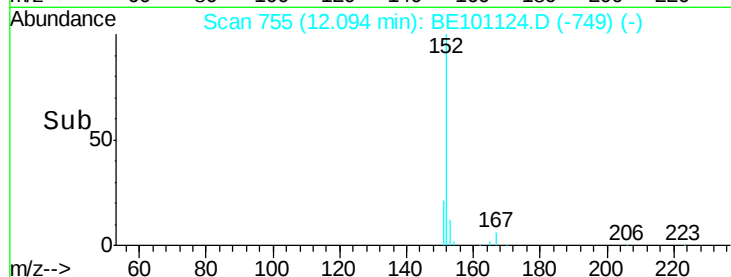
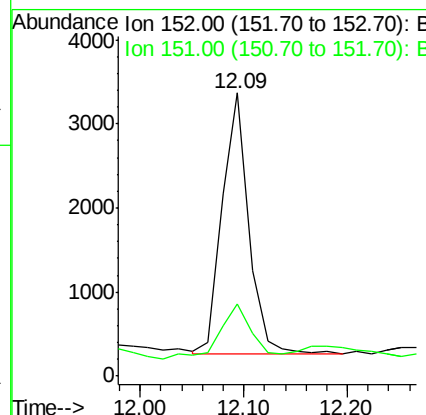
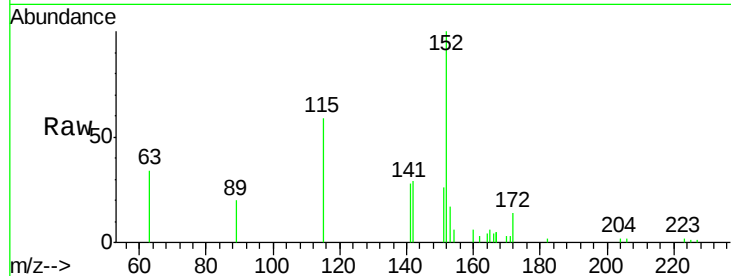
#11
2-Methylnaphthalene-d10
Concen: 0.177 ng
RT: 12.09 min Scan# 755
Delta R.T. -0.01 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.0	22.6

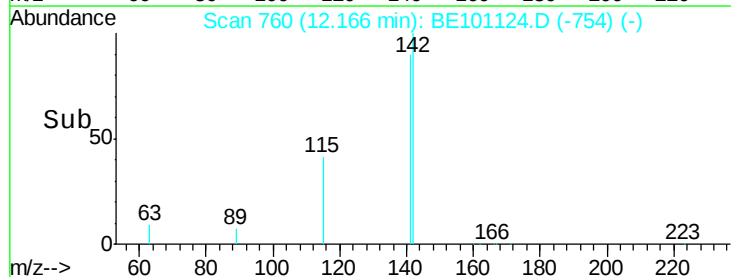
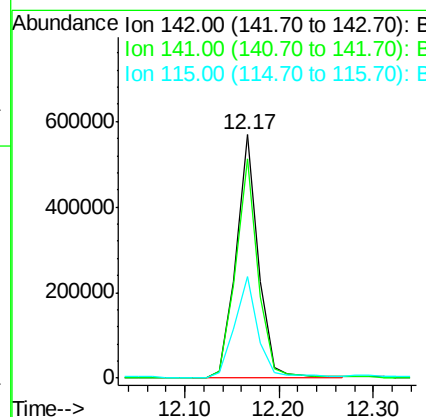
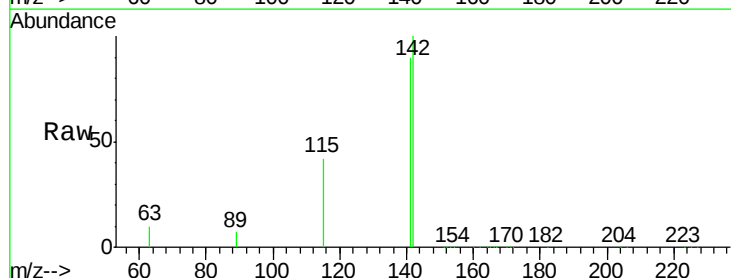
Manual Integrations
APPROVED

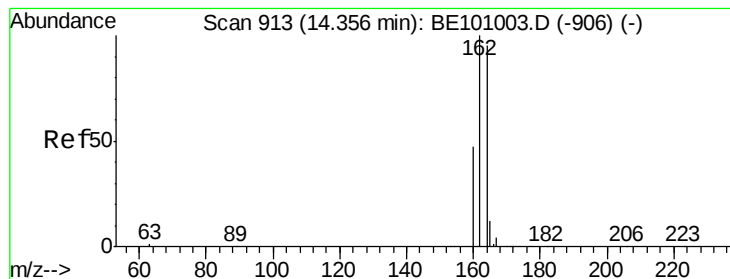
mohammad
1/23/2020 1:53:57 PM



#12
2-Methylnaphthalene
Concen: 34.151 ng
RT: 12.17 min Scan# 760
Delta R.T. -0.01 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.5	108.7
115	41.8	33.0	49.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.36 min Scan# 912

Delta R.T. -0.00 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Instrument :

BNA_E

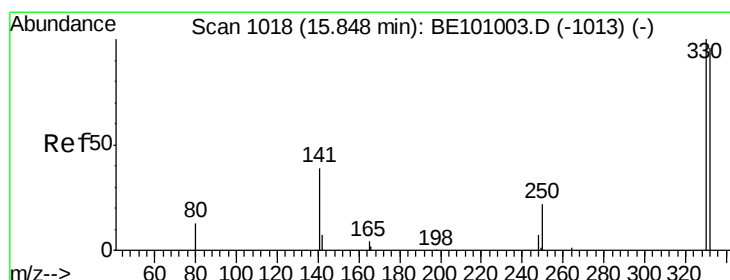
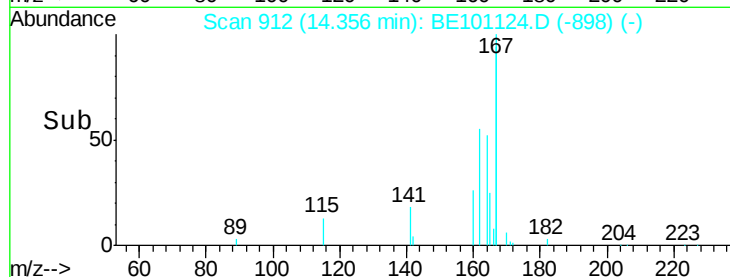
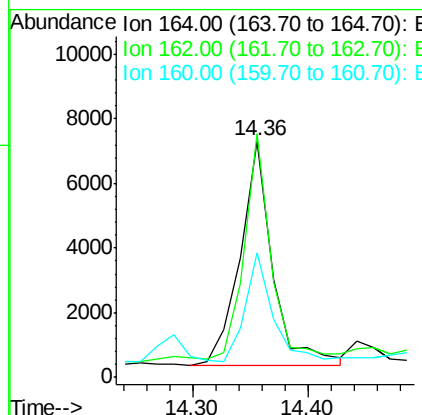
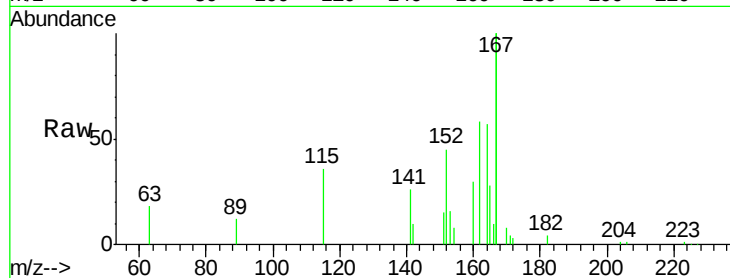
ClientSampleId :

SB-33-(5-7)

Tot Ion:	164	Resp:	13488
Ion Ratio	Lower	Upper	
164	100		
162	103.1	84.1	126.1
160	52.6	40.4	60.6

Manual Integrations
APPROVED

mohammad
1/23/2020 1:53:57 PM



#14

2,4,6-Tribromophenol

Concen: 0.291 ng

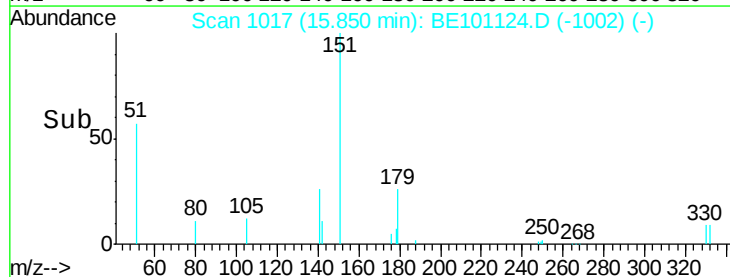
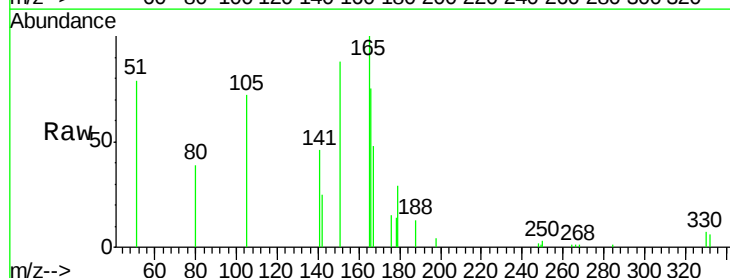
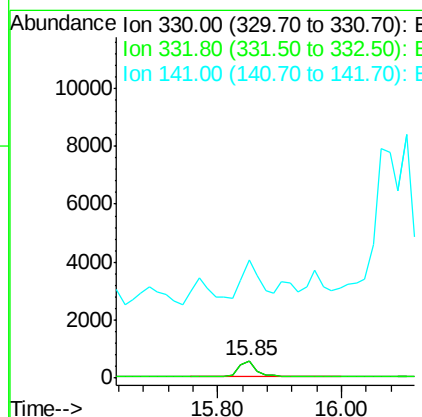
RT: 15.85 min Scan# 1017

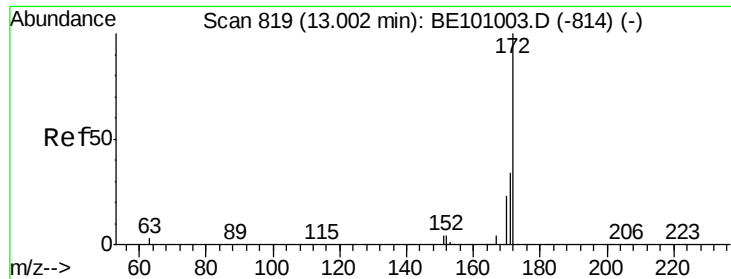
Delta R.T. 0.00 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Tgt Ion:	330	Resp:	1106
Ion Ratio	Lower	Upper	
330	100		
332	94.7	78.4	117.6
141	233.9	37.0	55.4#





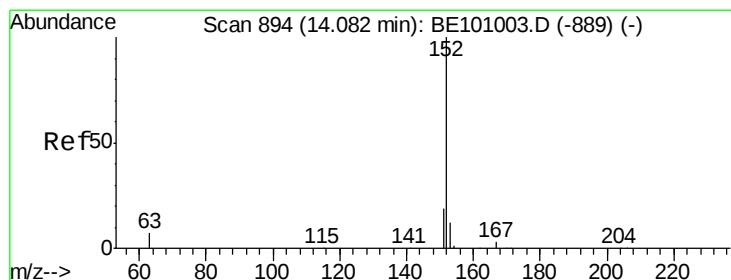
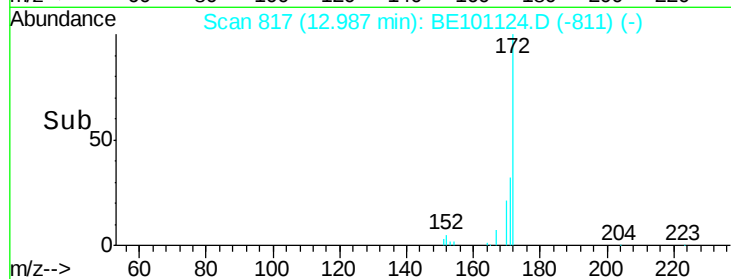
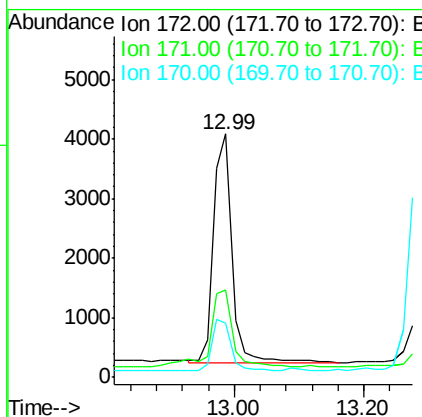
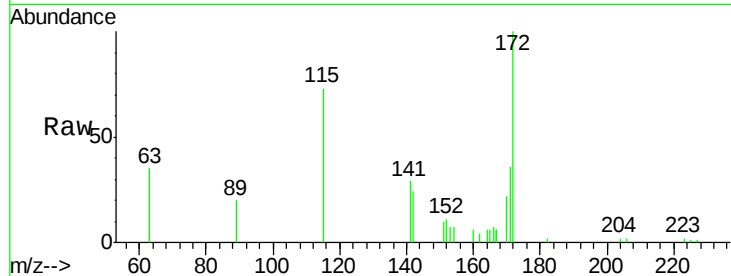
#15
2-Fluorobiphenyl
Concen: 0.152 ng
RT: 12.99 min Scan# 817
Delta R.T. -0.01 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.2	42.2
170	22.4	18.9	28.3

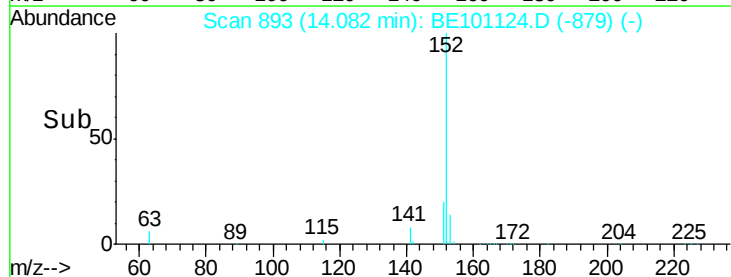
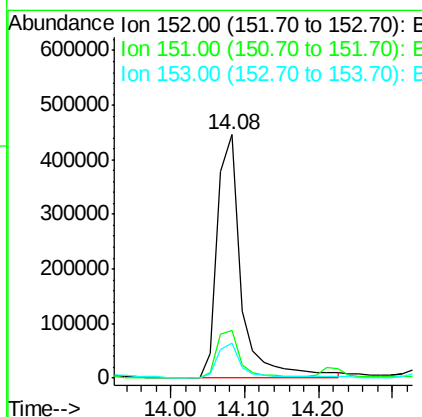
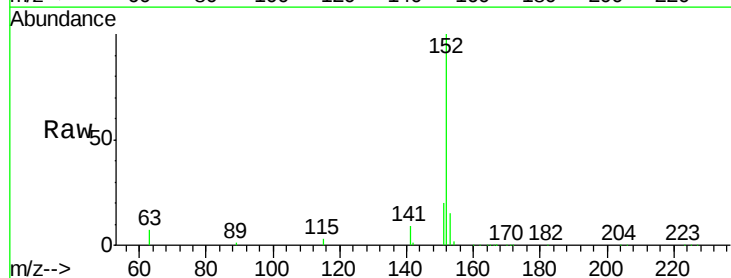
Manual Integrations
APPROVED

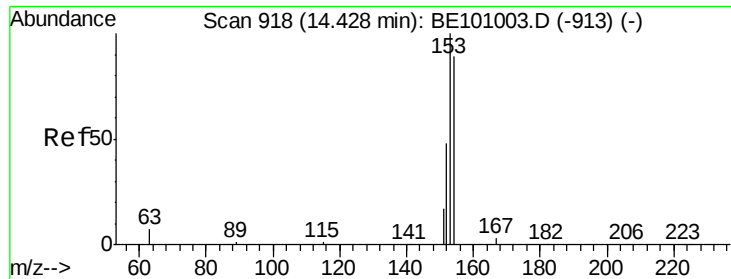
mohammad
1/23/2020 1:53:57 PM



#16
Acenaphthylene
Concen: 18.152 ng
RT: 14.08 min Scan# 893
Delta R.T. -0.00 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.5	23.3
153	13.8	10.4	15.6





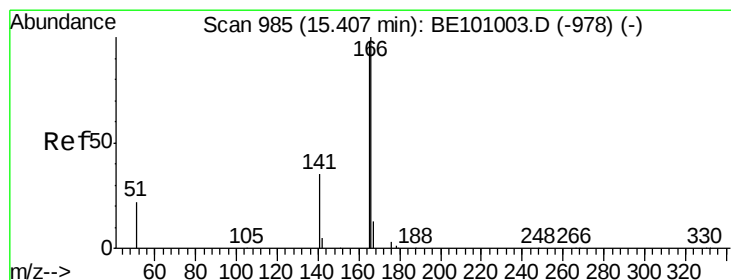
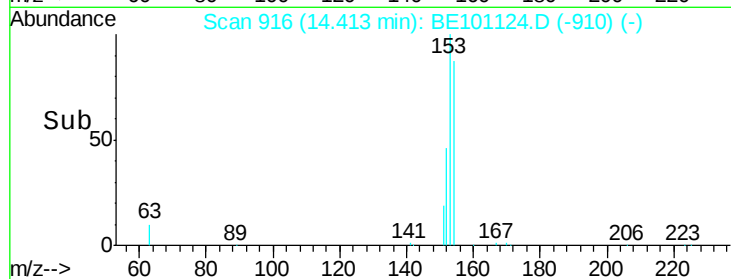
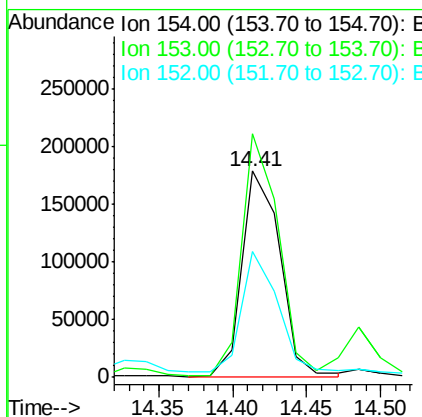
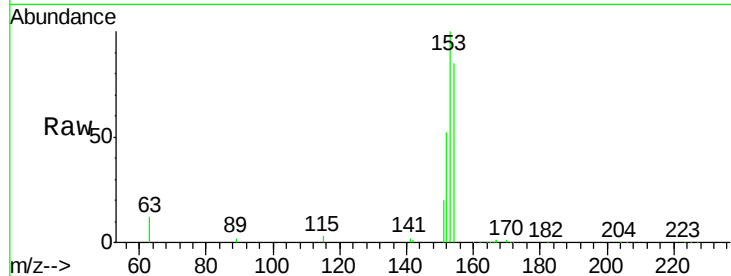
#17
Acenaphthene
Concen: 8.061 ng
RT: 14.41 min Scan# 916
Delta R.T. -0.01 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.6	93.6	140.4
152	57.8	46.3	69.5

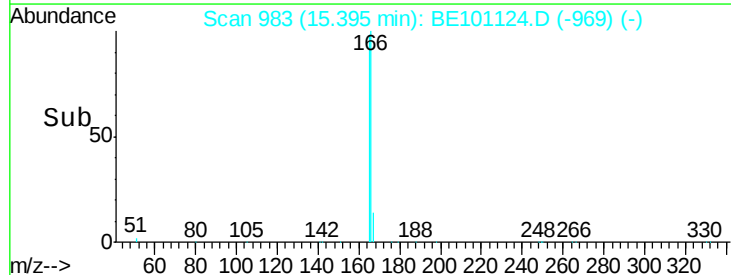
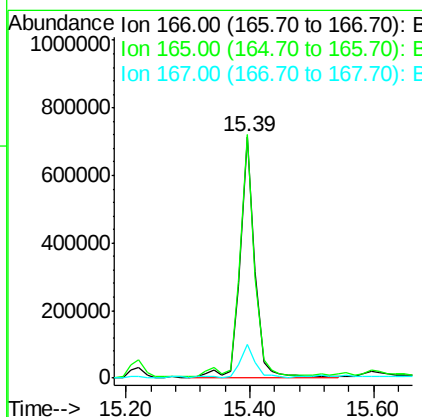
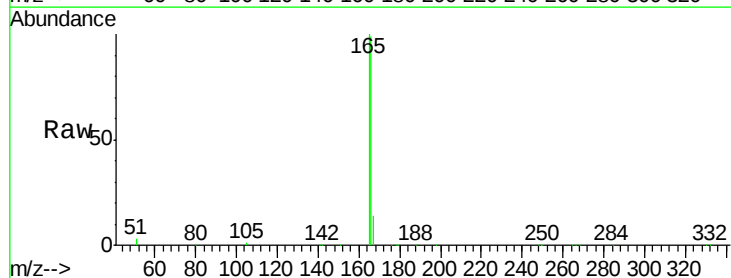
Manual Integrations
APPROVED

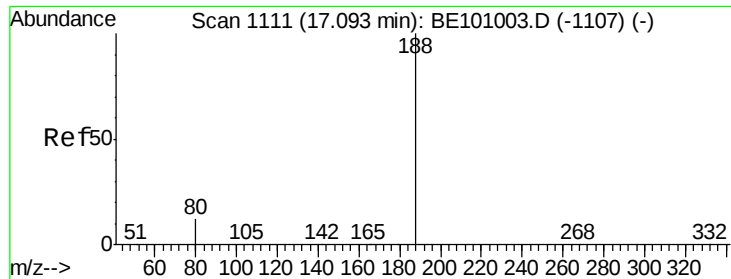
mohammad
1/23/2020 1:53:57 PM



#18
Fluorene
Concen: 23.518 ng
RT: 15.39 min Scan# 983
Delta R.T. -0.01 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	13.4	11.0	16.6





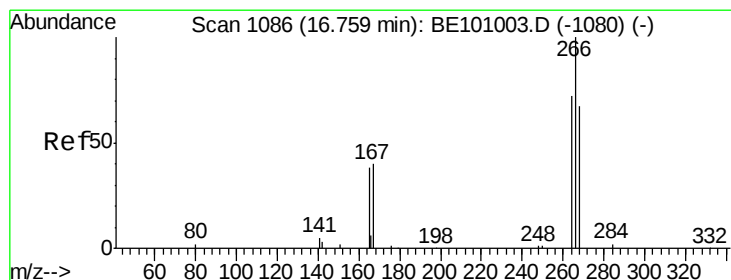
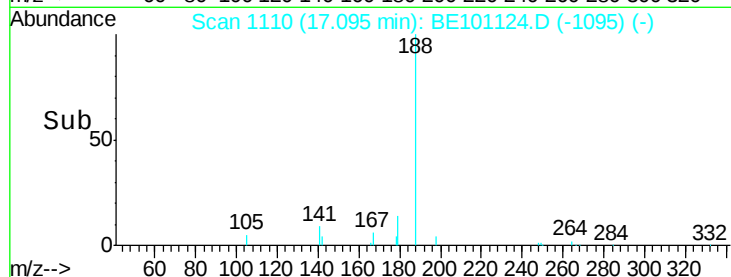
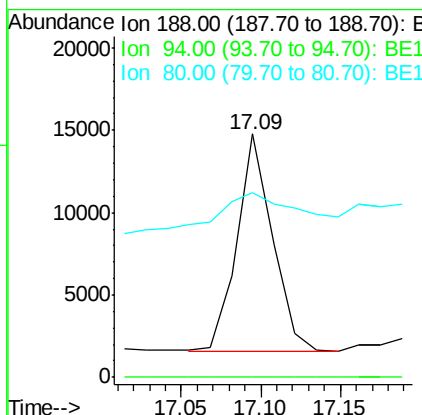
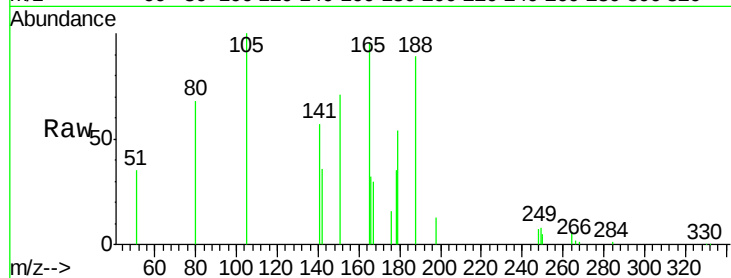
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.09 min Scan# 1110
Delta R.T. 0.00 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	76.0	10.8	16.2

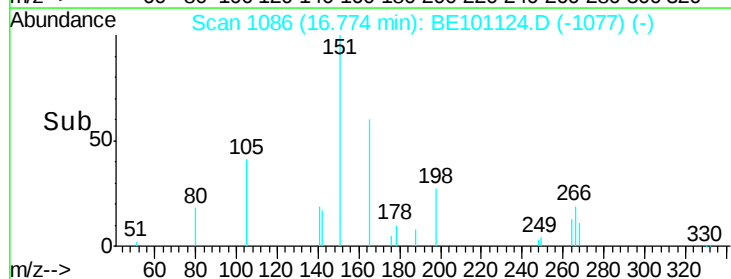
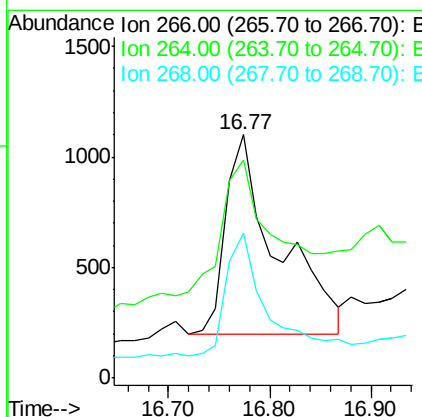
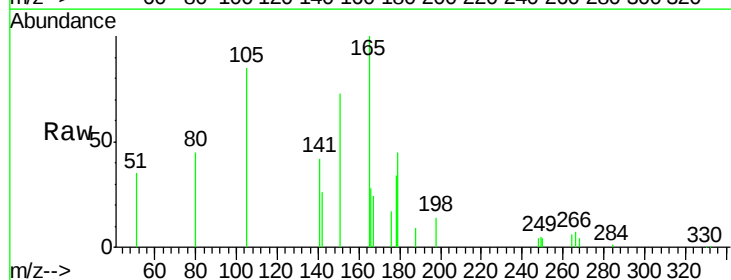
Manual Integrations
APPROVED

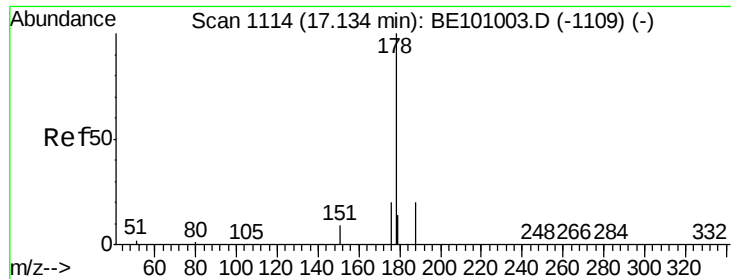
mohammad
1/23/2020 1:53:57 PM



#22
Pentachlorophenol
Concen: 1.073 ng
RT: 16.77 min Scan# 1086
Delta R.T. 0.02 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
266	100		
264	89.4	61.0	91.4
268	59.5	58.5	87.7





#23

Phenanthrene

Concen: 86.481 ng

RT: 17.15 min Scan# 1114

Delta R.T. 0.01 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Instrument :

BNA_E

ClientSampleId :

SB-33-(5-7)

Tot Ion:178 Resp: 4873723

Ion Ratio Lower Upper

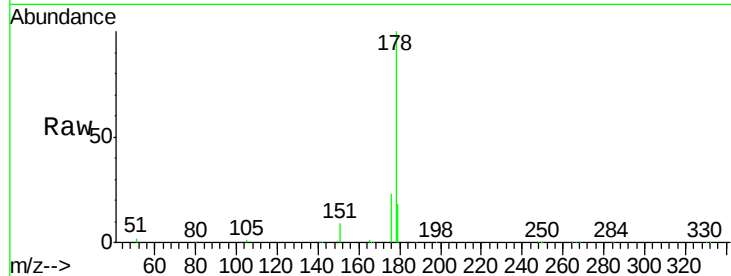
178 100

176 21.9 15.7 23.5

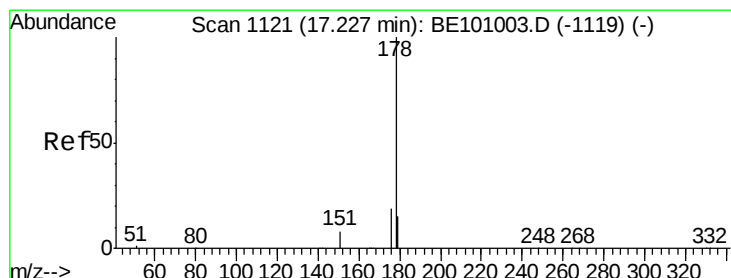
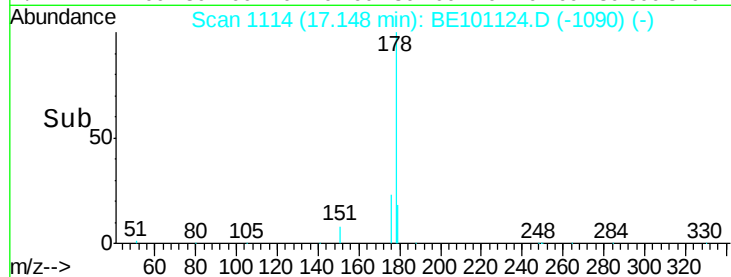
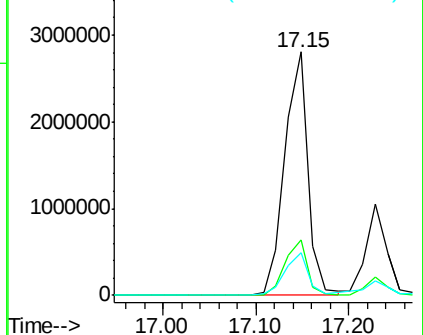
179 17.4 12.0 18.0

Manual Integrations
APPROVED

mohammad
1/23/2020 1:53:57 PM



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: 32.371 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Tgt Ion:178 Resp: 1721420

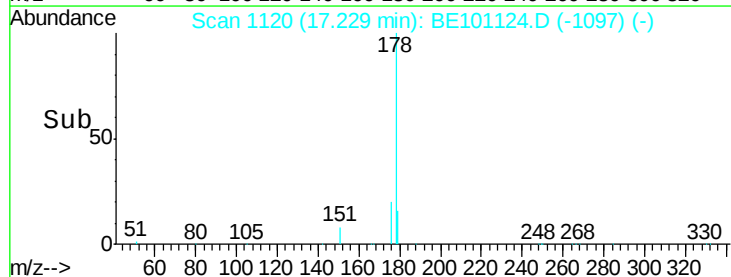
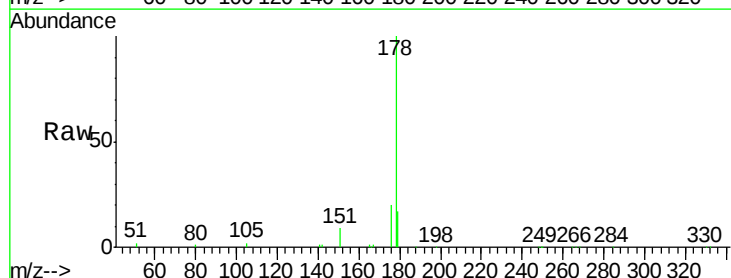
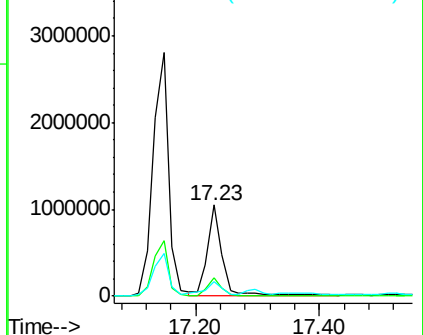
Ion Ratio Lower Upper

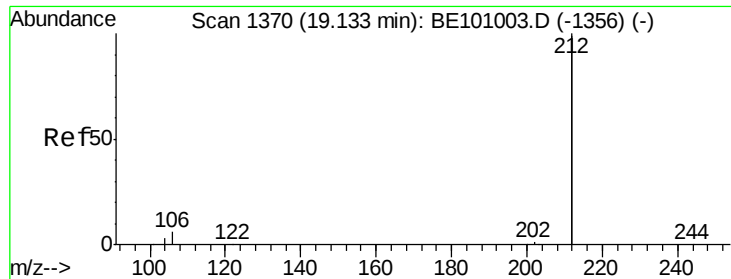
178 100

176 19.5 14.8 22.2

179 16.3 12.4 18.6

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





#25

Fluoranthene-d10

Concen: 0.245 ng/mL

RT: 19.17 min Scan# 1375

Delta R.T. 0.03 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Instrument :

BNA_E

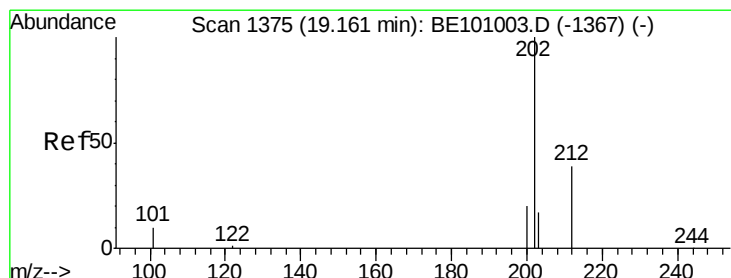
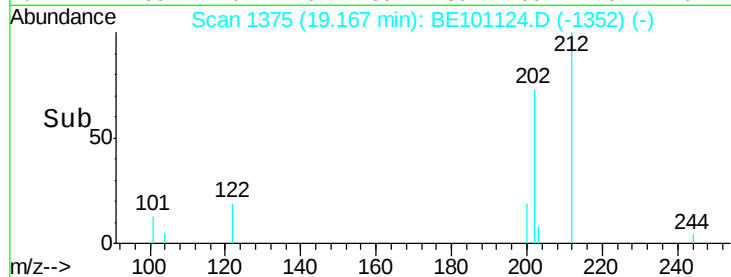
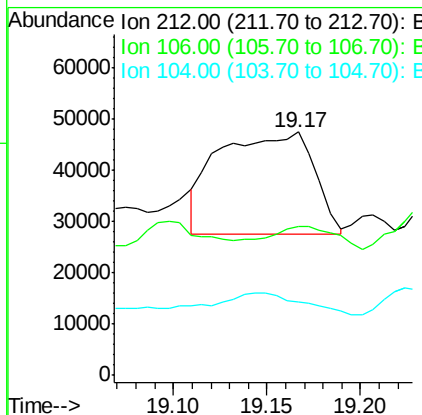
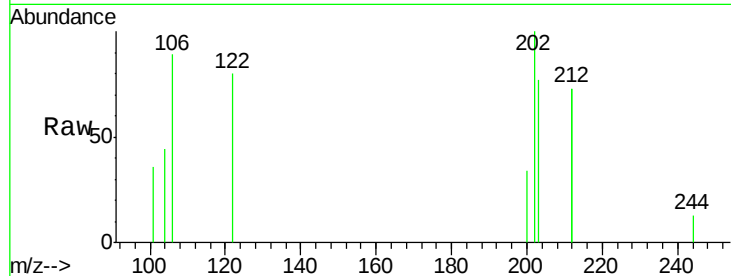
ClientSampleId :

SB-33-(5-7)

Tot Ion:	212	Resp:	70125
Ion Ratio	Lower	Upper	
212	100		
106	15.4	2.6	3.8#
104	20.2	1.4	2.0#

Manual Integrations
APPROVED

mohammad
1/23/2020 1:53:57 PM



#26

Fluoranthene

Concen: 64.610 ng/mL

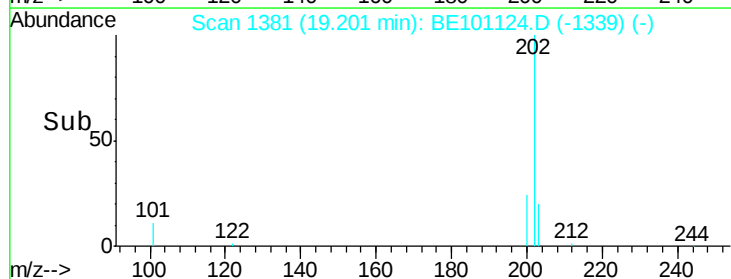
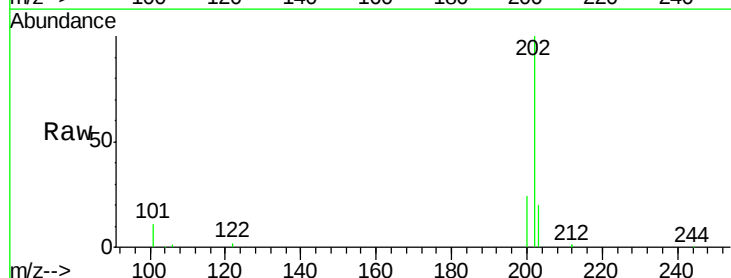
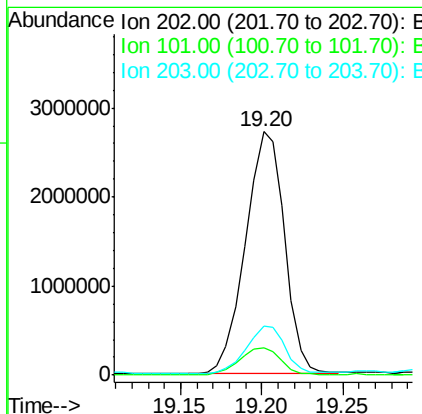
RT: 19.20 min Scan# 1381

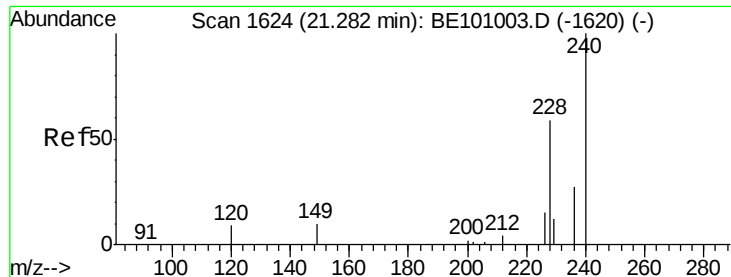
Delta R.T. 0.04 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Tgt Ion:	202	Resp:	4559909
Ion Ratio	Lower	Upper	
202	100		
101	11.5	9.6	14.4
203	19.1	13.8	20.6





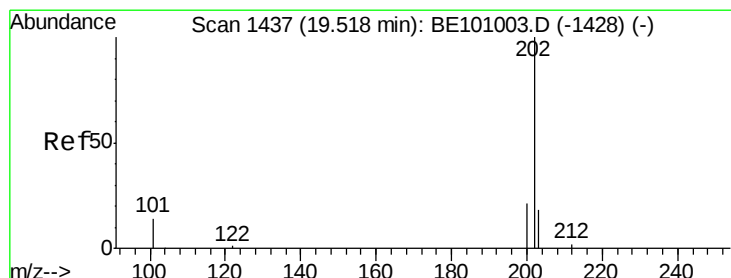
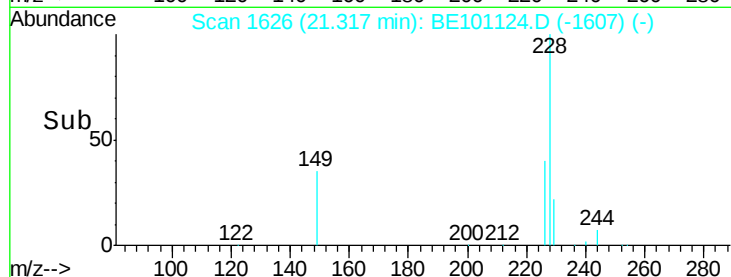
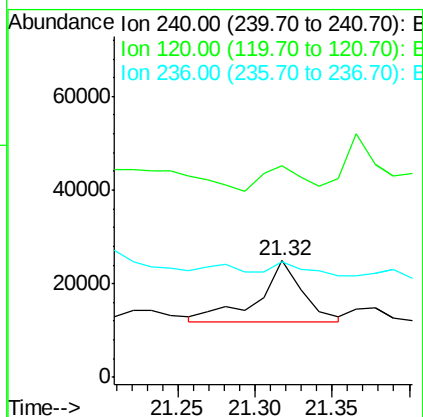
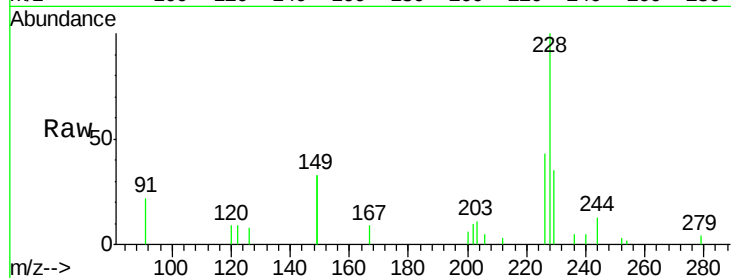
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.32 min Scan# 1626
Delta R.T. 0.04 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
240	100		
120	181.2	8.6	13.0#
236	99.5	22.2	33.4#

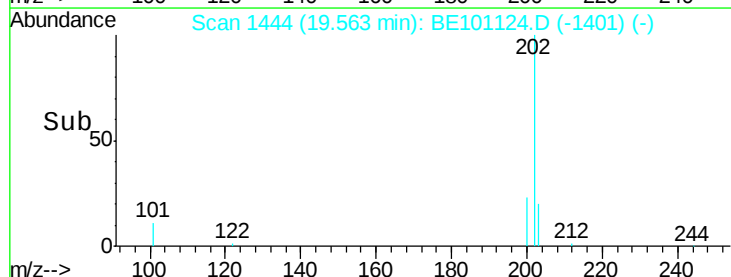
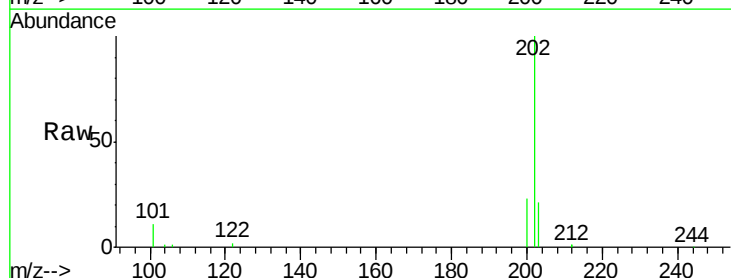
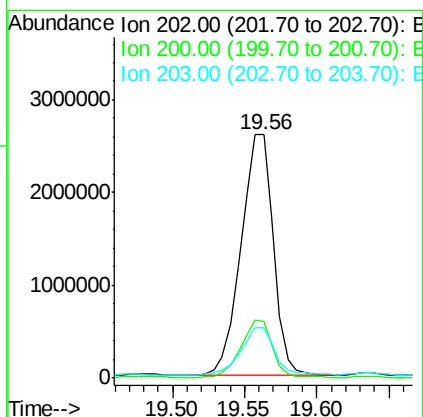
Manual Integrations
APPROVED

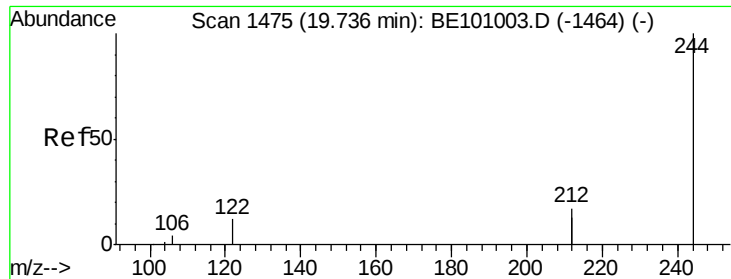
mohammad
1/23/2020 1:53:57 PM



#28
Pyrene
Concen: 41.023 ng
RT: 19.56 min Scan# 1444
Delta R.T. 0.05 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.9	17.0	25.4
203	21.1	13.8	20.6#





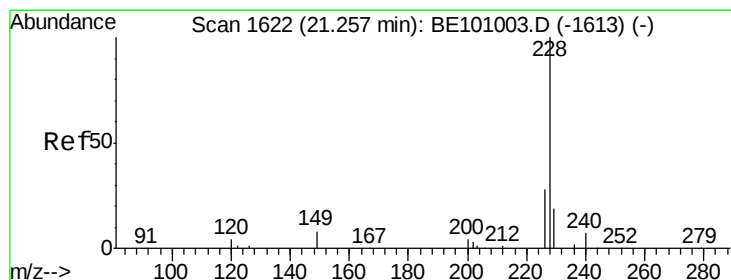
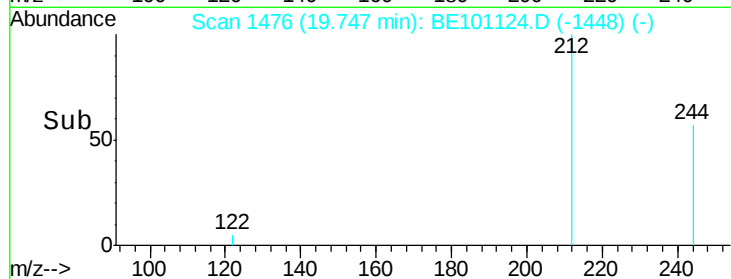
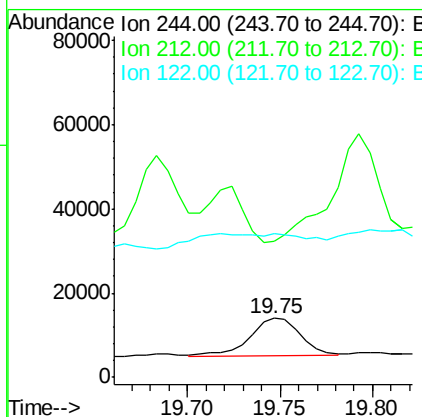
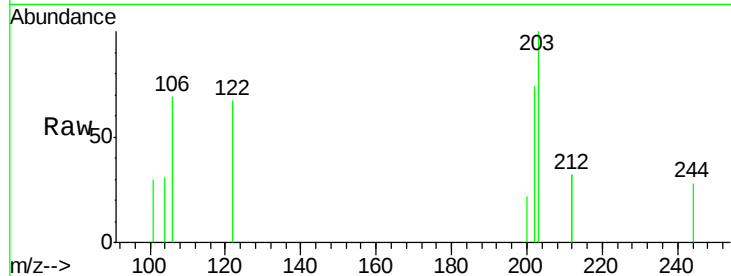
#29
 Terphenyl-d14
 Concen: 0.256 ng
 RT: 19.75 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: BE101124.D
 Acq: 22 Jan 2020 21:00

Instrument :
 BNA_E
 ClientSampleId :
 SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
244	100		
212	230.2	27.2	40.8#
122	242.5	9.8	14.8#

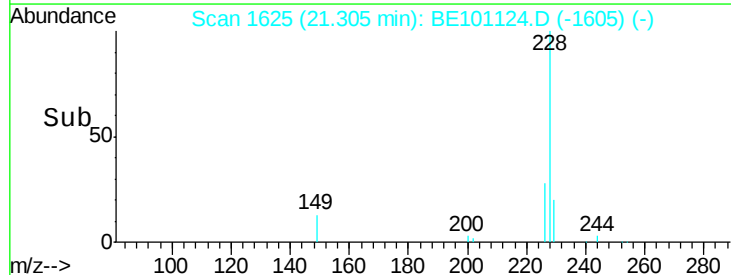
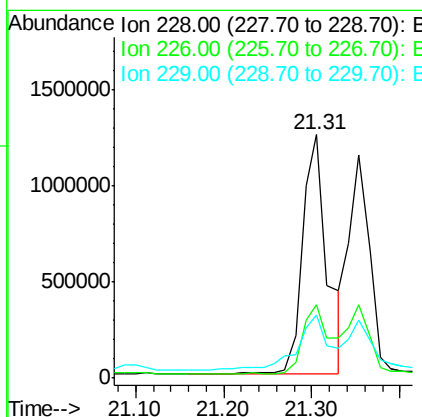
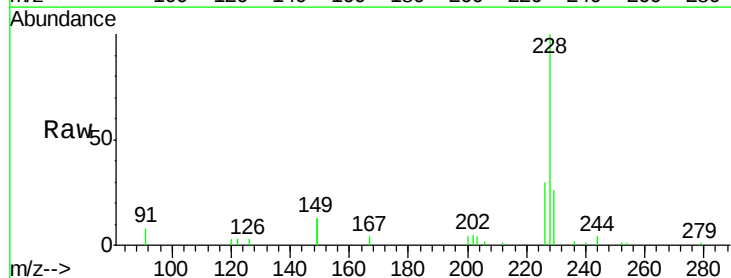
Manual Integrations
 APPROVED

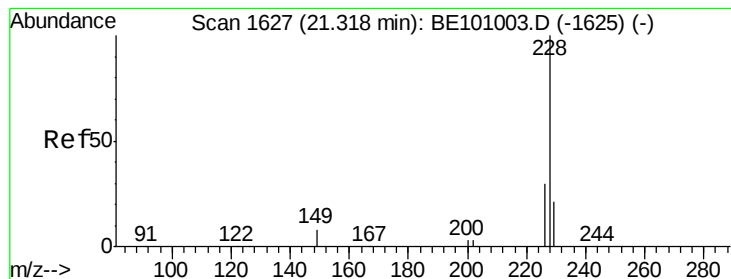
mohammad
 1/23/2020 1:53:57 PM



#30
 Benzo(a)anthracene
 Concen: 32.563 ng
 RT: 21.31 min Scan# 1625
 Delta R.T. 0.05 min
 Lab File: BE101124.D
 Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.7	34.1
229	25.7	15.5	23.3#





#31

Chrysene

Concen: 16.720 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.04 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Instrument :

BNA_E

ClientSampled :

SB-33-(5-7)

Tot Ion:228 Resp: 1885835

Ion Ratio Lower Upper

228 100

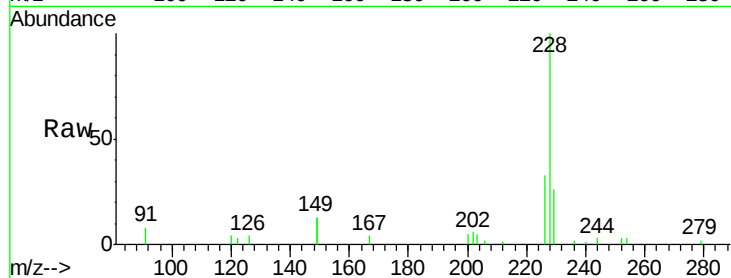
226 33.0 23.5 35.3

229 25.8 16.7 25.1#

Manual Integrations
APPROVED

mohammad

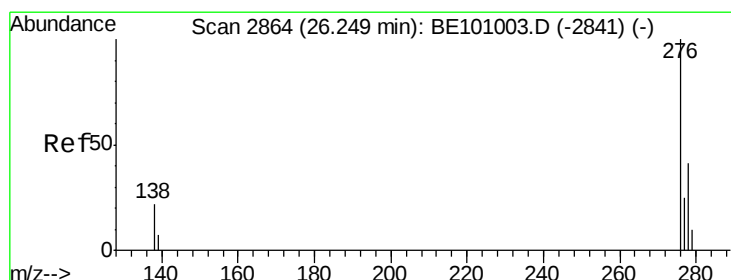
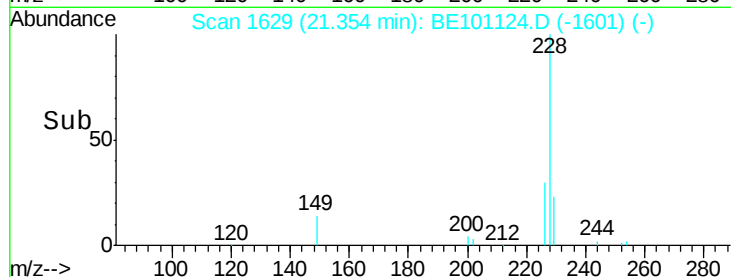
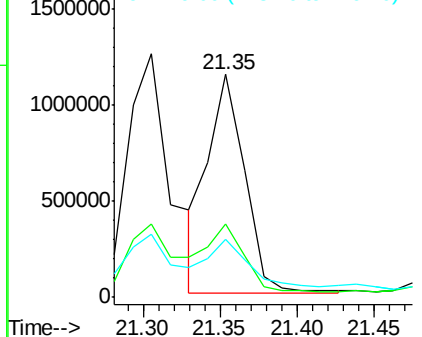
1/23/2020 1:53:57 PM



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 14.797 ng

RT: 26.35 min Scan# 2890

Delta R.T. 0.10 min

Lab File: BE101124.D

Acq: 22 Jan 2020 21:00

Tgt Ion:276 Resp: 1318655

Ion Ratio Lower Upper

276 100

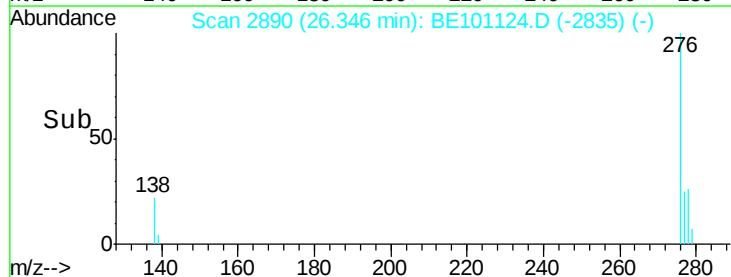
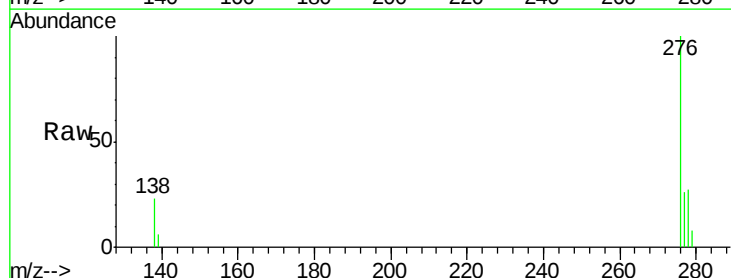
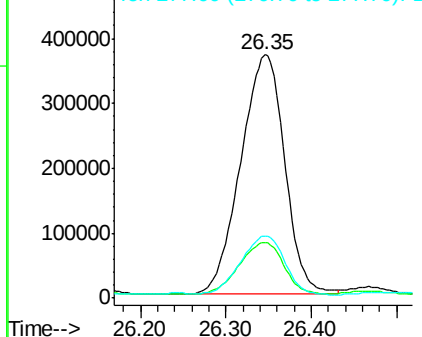
138 21.3 16.1 24.1

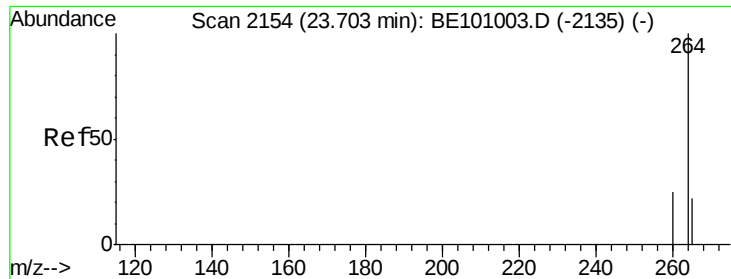
277 24.4 18.1 27.1

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





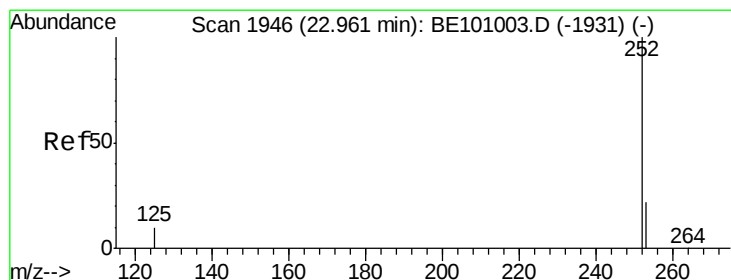
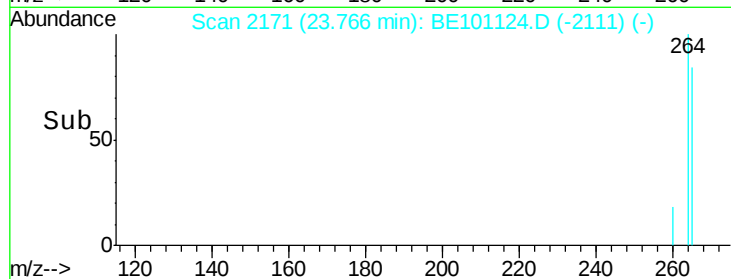
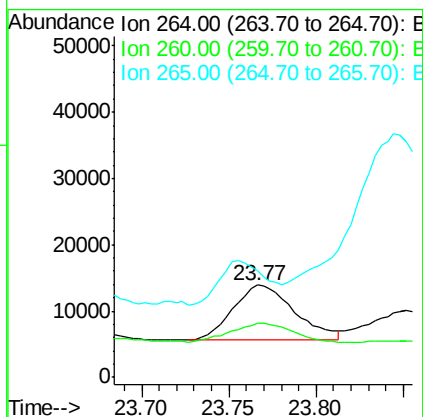
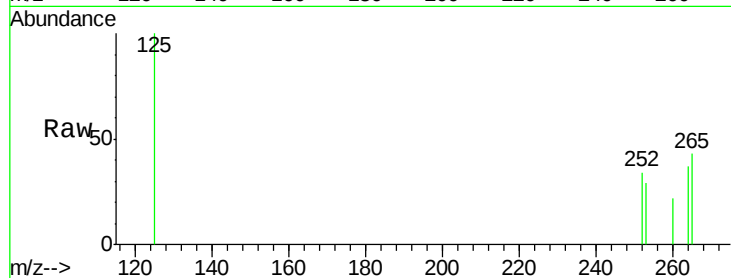
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.77 min Scan# 2171
Delta R.T. 0.06 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
264	100		
260	58.2	20.3	30.5#
265	115.0	27.0	40.4#

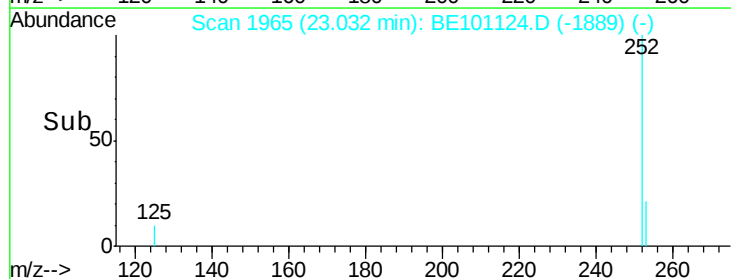
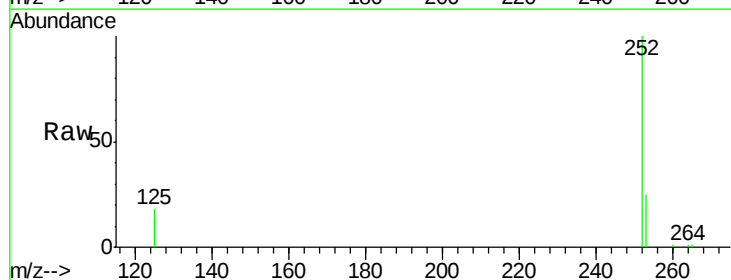
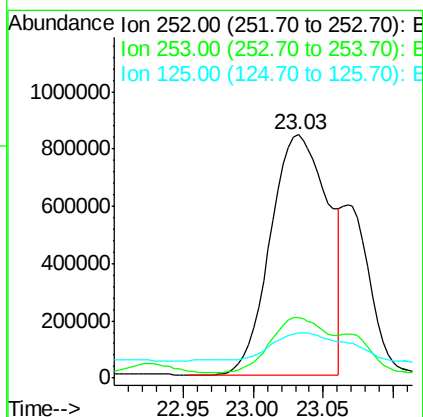
Manual Integrations
APPROVED

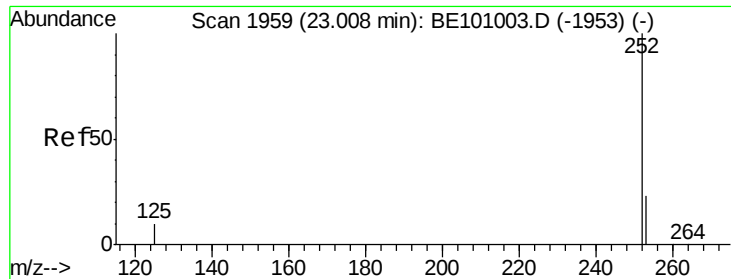
mohammad
1/23/2020 1:53:57 PM



#35
Benzo(b)fluoranthene
Concen: 42.244 ng
RT: 23.03 min Scan# 1965
Delta R.T. 0.07 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.5	27.7
125	18.4	9.5	14.3#





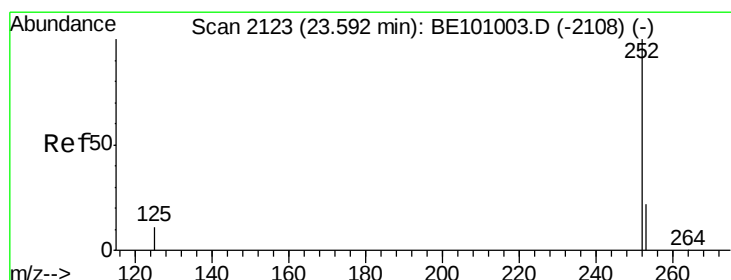
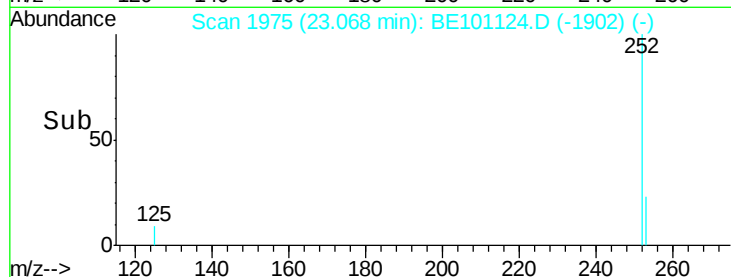
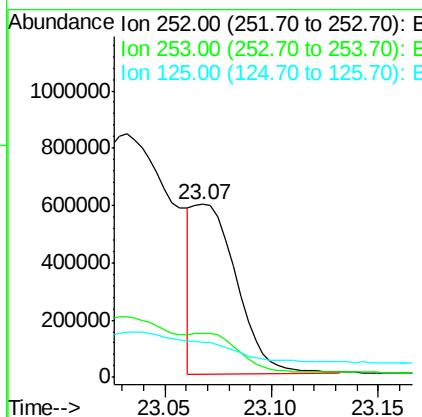
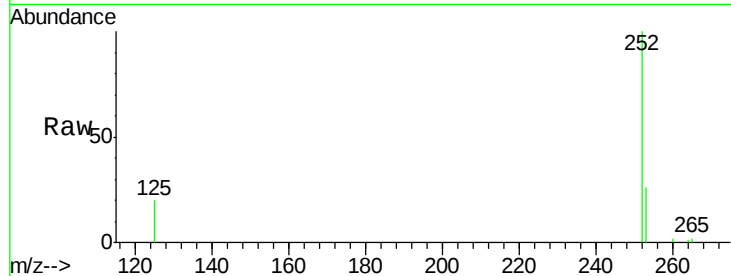
#36
Benzo(k)fluoranthene
Concen: 10.169 ng m
RT: 23.07 min Scan# 1975
Delta R.T. 0.06 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampleId :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.7	18.9	28.3
125	20.4	10.1	15.1

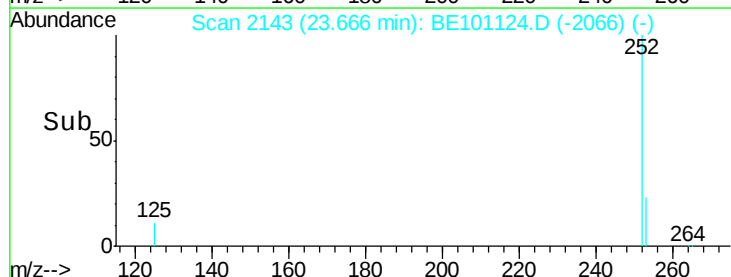
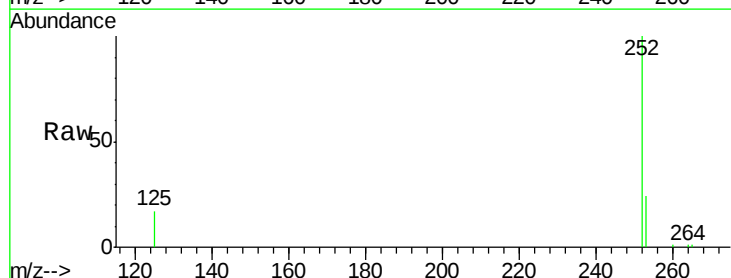
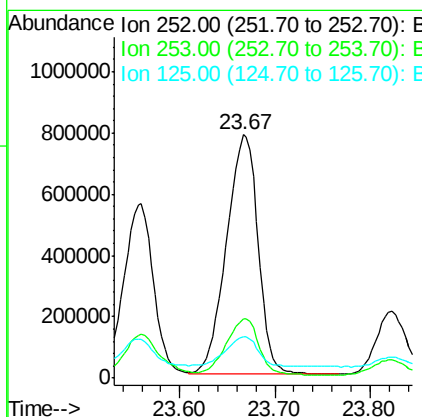
Manual Integrations
APPROVED

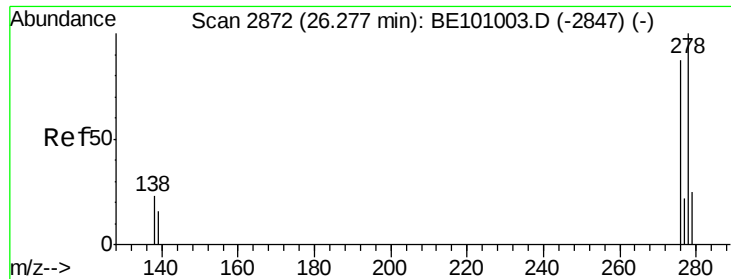
mohammad
1/23/2020 1:53:57 PM



#37
Benzo(a)pyrene
Concen: 32.691 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.07 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.4	29.2
125	17.1	11.8	17.6





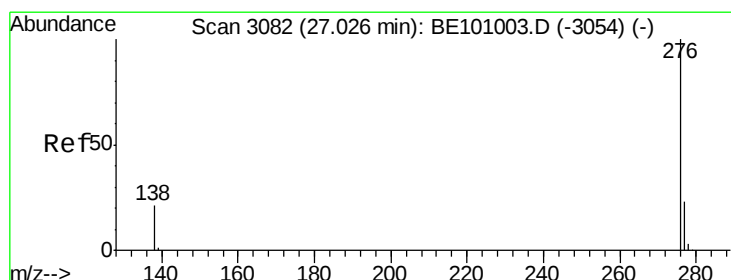
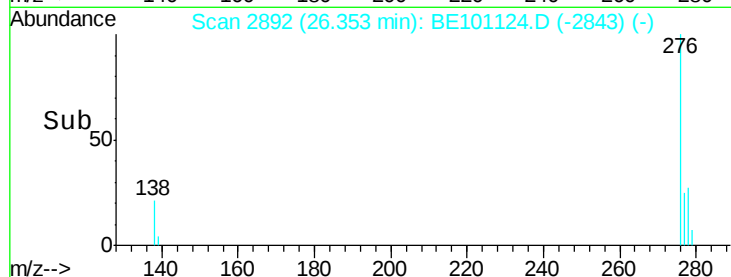
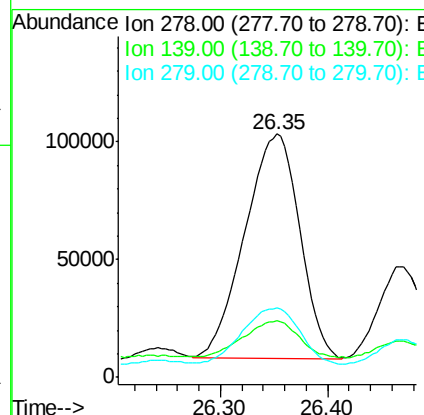
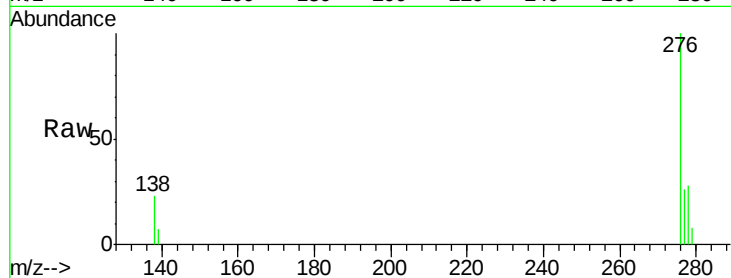
#38
Dibenzo(a,h)anthracene
Concen: 6.614 ng
RT: 26.35 min Scan# 2892
Delta R.T. 0.08 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Instrument :
BNA_E
ClientSampled :
SB-33-(5-7)

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.2	15.0	22.4#
279	28.6	22.6	33.8

Manual Integrations
APPROVED

mohammad
1/23/2020 1:53:57 PM



#39
Benzo(g,h,i)perylene
Concen: 21.411 ng
RT: 27.15 min Scan# 3115
Delta R.T. 0.12 min
Lab File: BE101124.D
Acq: 22 Jan 2020 21:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.4	29.2
138	23.4	17.9	26.9

