

Data Path : S:\HPCHEM1\BNA_E\DATA\BE050517\
 Data File : BE092930.D
 Acq On : 5 May 2017 15:00
 Operator : SJ/MA
 Sample : I2872-16DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILDL

Manual Integrations
 APPROVED

mohammad
 5/8/2017 2:46:58 PM

Quant Time: May 05 16:00:36 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE050517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 05 14:05:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	774	0.40	ng	0.00
7) Naphthalene-d8	10.53	136	3303	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	1588	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	3992	0.40	ng	0.00
26) Chrysene-d12	21.28	240	4528	0.40	ng	0.00
33) Perylene-d12	23.69	264	3894	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.36	112	59	0.03	ng	0.00
5) Phenol-d6	6.94	99	88	0.04	ng	0.00
8) Nitrobenzene-d5	8.90	82	83	0.04	ng	0.00
11) 2-Methylnaphthalene-d10	12.13	152	158	0.03	ng	0.00
14) 2,4,6-Tribromophenol	15.87	330	15	0.06	ng	0.00
15) 2-Fluorobiphenyl	13.01	172	265	0.04	ng	0.00
24) Fluoranthene-d10	19.15	212	307	0.03	ng	0.00
28) Terphenyl-d14	19.74	244	325	0.04	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.58	128	9272	1.05	ng	# 83
12) 2-Methylnaphthalene	12.19	142	2857	0.53	ng	95
16) Acenaphthylene	14.10	152	23130	0.92	ng	99
17) Acenaphthene	14.45	154	1520	0.30	ng	98
18) Fluorene	15.43	166	2532	0.41	ng	98
22) Phenanthrene	17.18	178	10779	0.96	ng	97
23) Anthracene	17.27	178	16044	1.87	ng	99
25) Fluoranthene	19.17	202	36427	0.75	ng	# 98
27) Pyrene	19.53	202	36897	0.63	ng	# 98
29) Benzo(a)anthracene	21.27	228	3774m	0.35	ng	
30) Chrysene	21.32	228	9720m	0.72	ng	
31) Bis(2-ethylhexyl)phthalate	21.20	149	635	0.22	ng	# 84
32) Indeno(1,2,3-cd)pyrene	26.22	276	43868	0.90	ng	99
34) Benzo(b)fluoranthene	22.95	252	3806	0.30	ng	# 84
35) Benzo(k)fluoranthene	22.99	252	7959	0.63	ng	# 80
36) Benzo(a)pyrene	23.58	252	1686	0.16	ng	# 81
37) Dibenzo(a,h)anthracene	26.25	278	9773	0.83	ng	# 73
38) Benzo(g,h,i)perylene	27.00	276	28709	0.58	ng	# 78

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

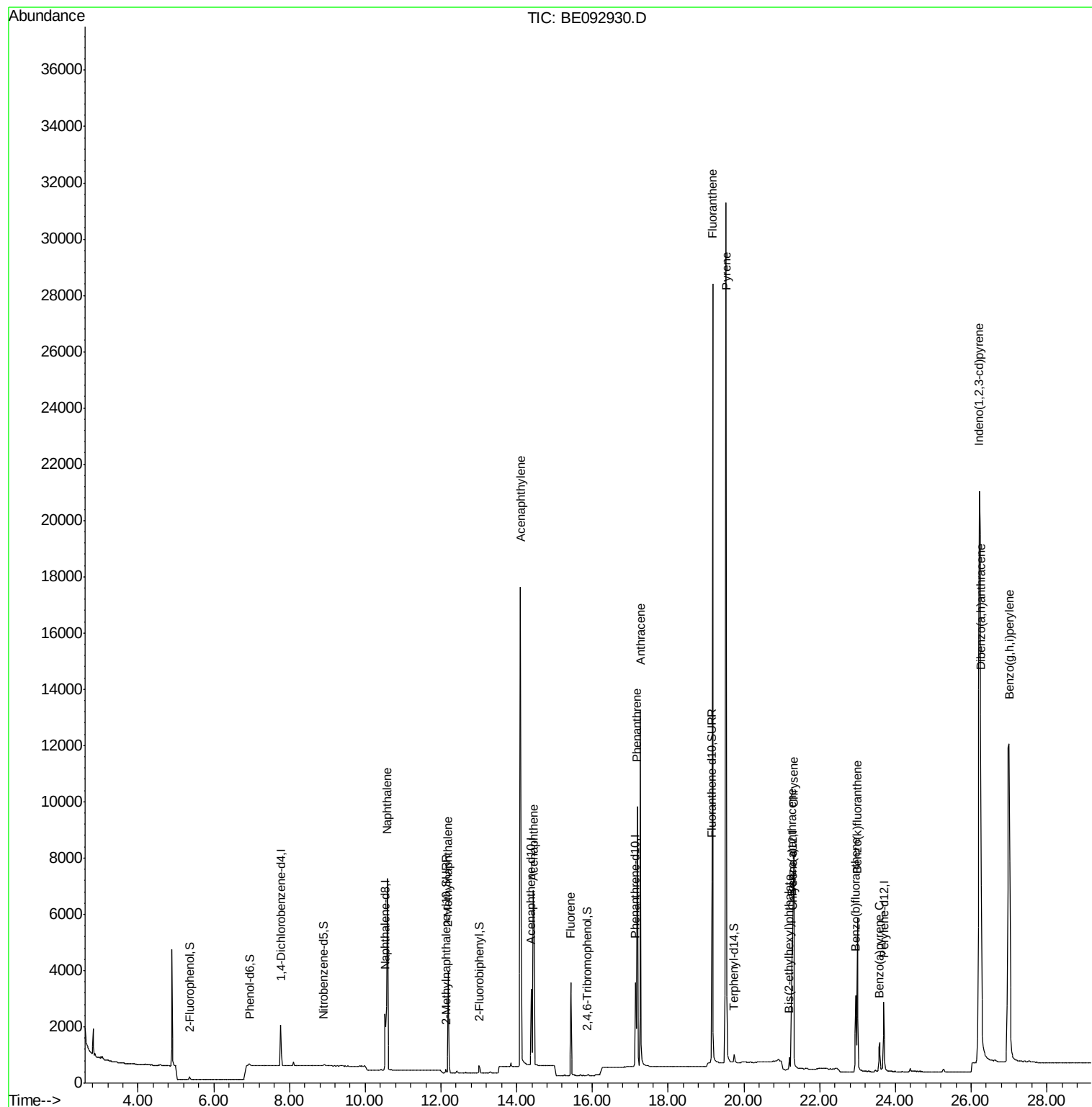
Data Path : S:\HPCHEM1\BNA_E\DATA\BE050517\
Data File : BE092930.D
Acq On : 5 May 2017 15:00
Operator : SJ/MA
Sample : I2872-16DL 10X
Misc :
ALS Vial : 10 Sample Multiplier: 1

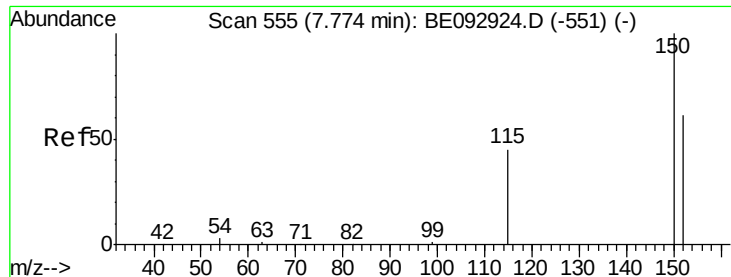
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM

Quant Time: May 05 16:00:36 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE050517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 05 14:05:07 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.77 min Scan# 555

Delta R.T. 0.00 min

Lab File: BE092930.D

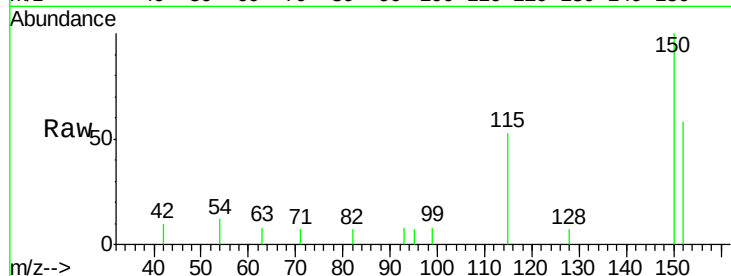
Acq: 5 May 2017 15:00

Instrument :

BNA_E

ClientSampleId :

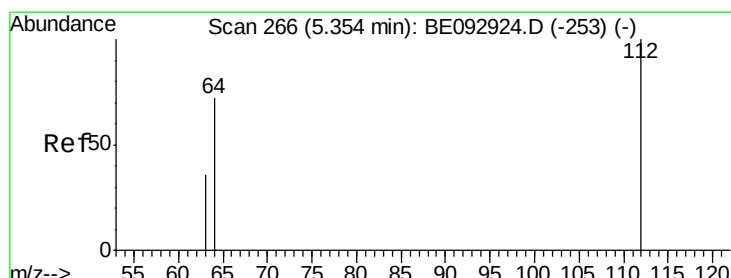
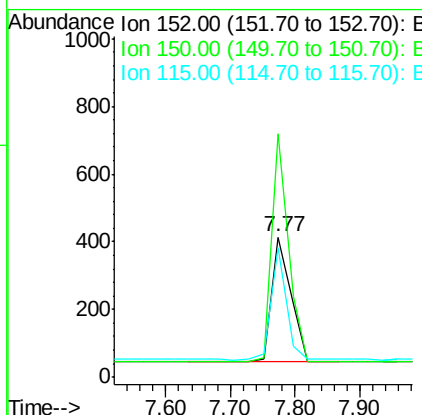
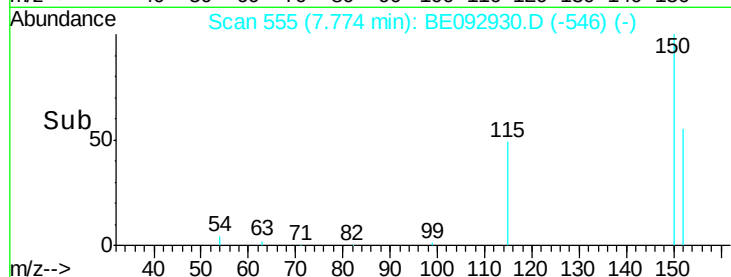
PT-PAH-SOILDL



Tgt Ion:	152	Resp:	774
Ion Ratio	Lower	Upper	
152	100		
150	173.3	129.9	194.9
115	92.0	62.6	93.8

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM



#4

2-Fluorophenol

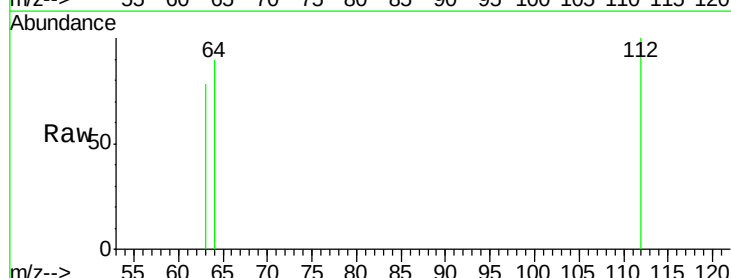
Concen: 0.03 ng

RT: 5.36 min Scan# 267

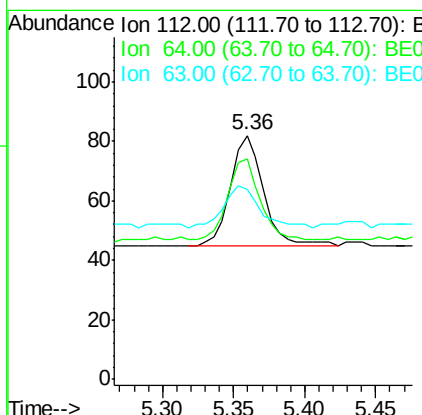
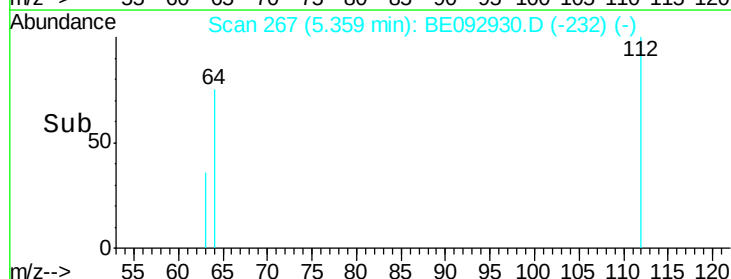
Delta R.T. 0.01 min

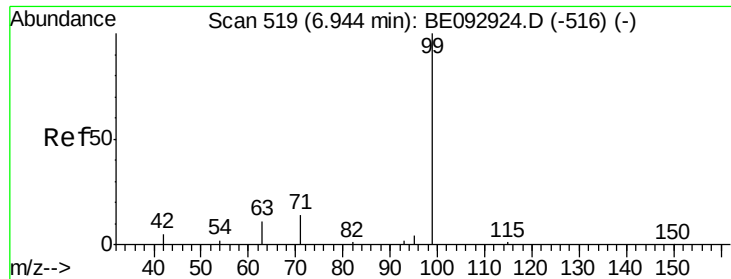
Lab File: BE092930.D

Acq: 5 May 2017 15:00



Tgt Ion:	112	Resp:	59
Ion Ratio	Lower	Upper	
112	100		
64	71.2	52.6	79.0
63	40.7	29.0	43.4





#5

Phenol-d6

Concen: 0.04 ng

RT: 6.94 min Scan# 519

Delta R.T. 0.00 min

Lab File: BE092930.D

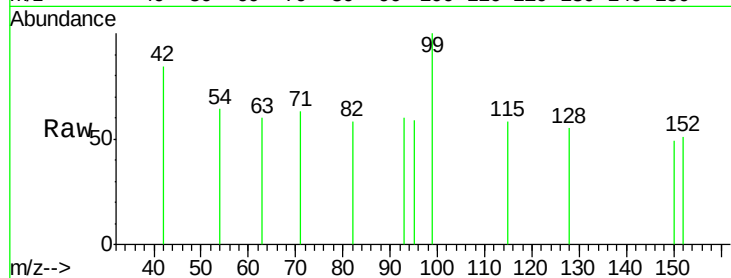
Acq: 5 May 2017 15:00

Instrument :

BNA_E

ClientSampled :

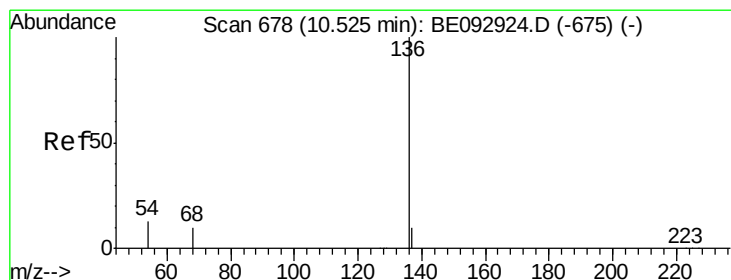
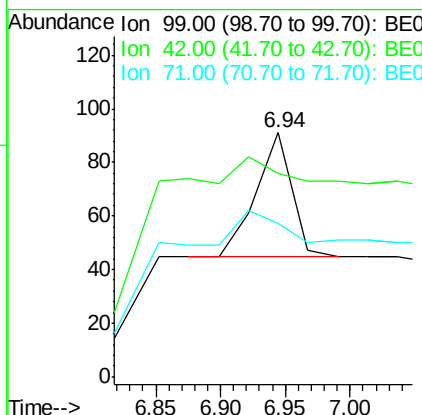
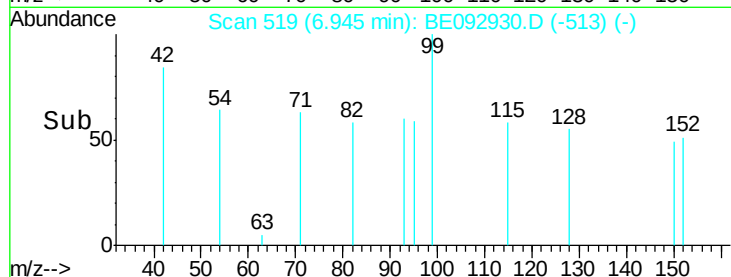
PT-PAH-SOILD



Tgt Ion	Ratio	Lower	Upper
99	100		
42	0.0	0.0	0.0
71	0.0	0.0	0.0

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM



#7

Naphthalene-d8

Concen: 0.40 ng

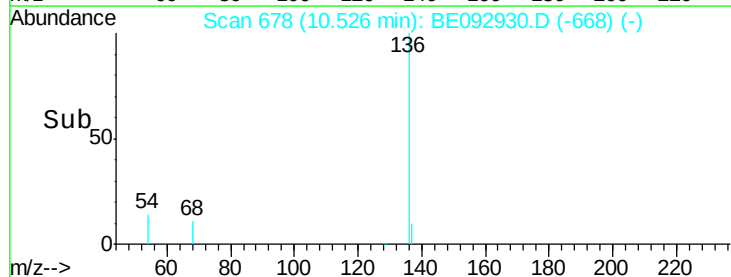
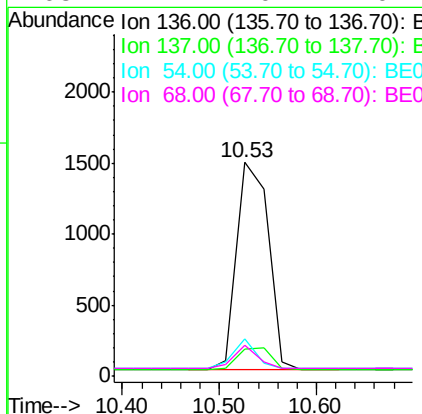
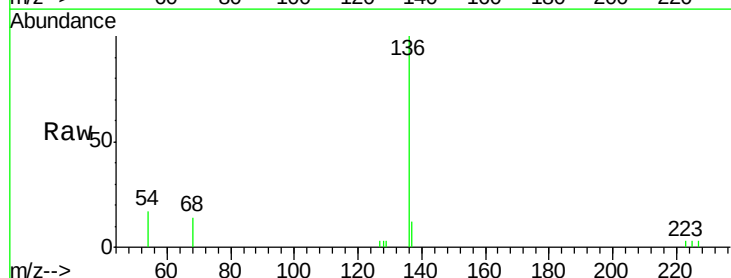
RT: 10.53 min Scan# 678

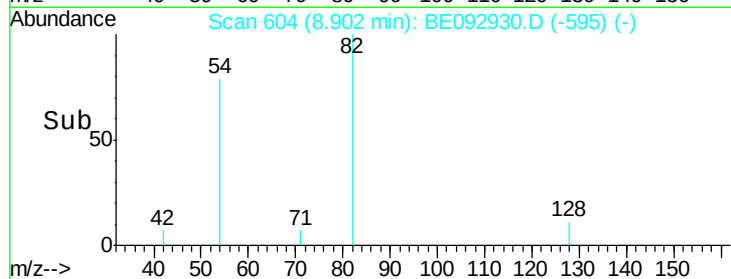
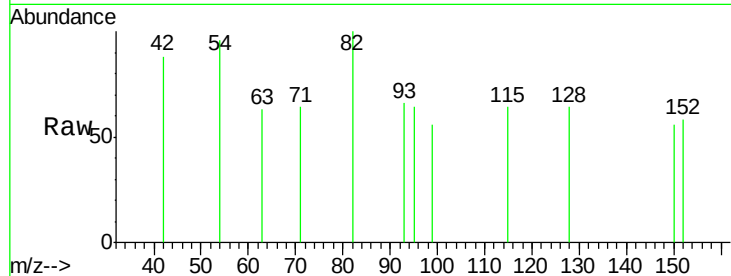
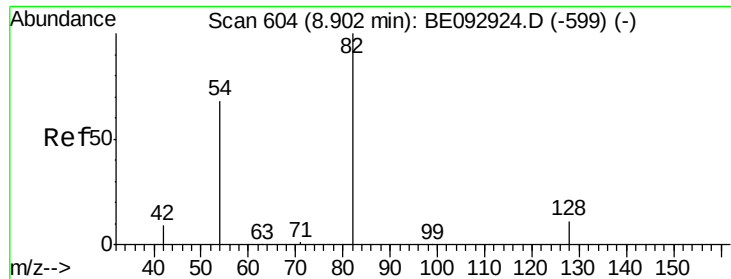
Delta R.T. 0.00 min

Lab File: BE092930.D

Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	17.1	12.6	18.8
68	14.4	10.7	16.1





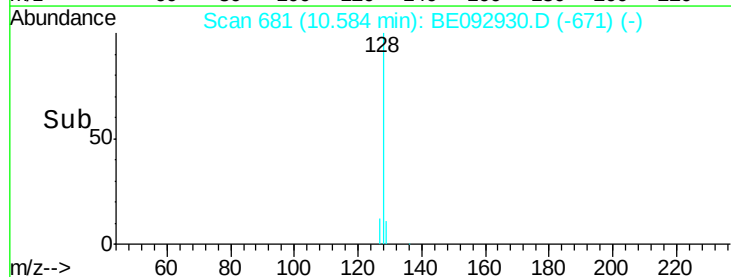
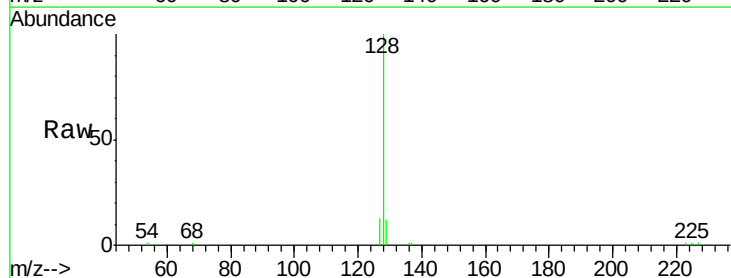
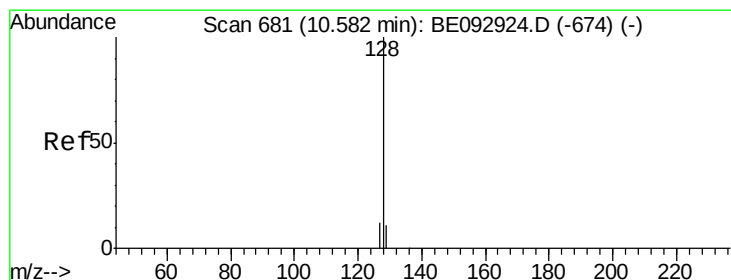
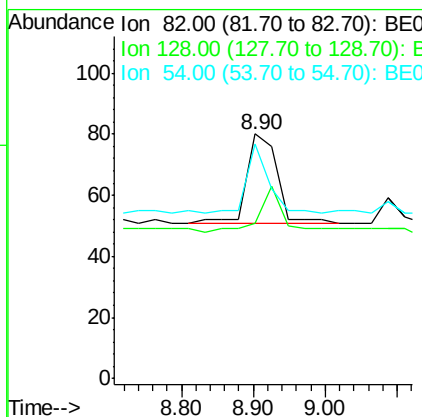
#8
Nitrobenzene-d5
Concen: 0.04 ng
RT: 8.90 min Scan# 604
Delta R.T. 0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
82	100		
128	63.8	35.3	52.9#
54	96.3	65.1	97.7

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

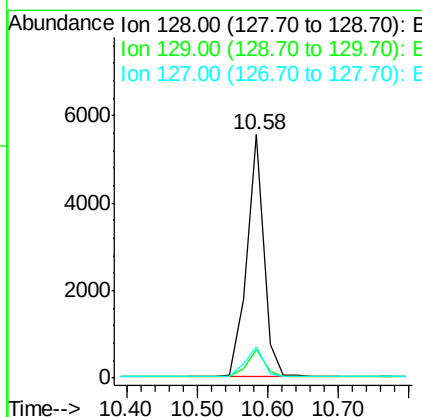
Manual Integrations
APPROVED

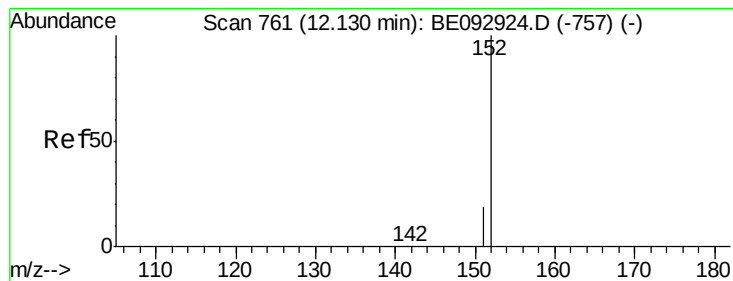
mohammad
5/8/2017 2:46:58 PM



#9
Naphthalene
Concen: 1.05 ng
RT: 10.58 min Scan# 681
Delta R.T. 0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	15.8	23.8#
127	12.8	16.0	24.0#





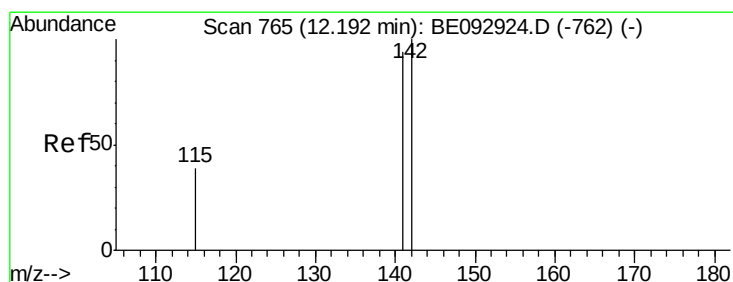
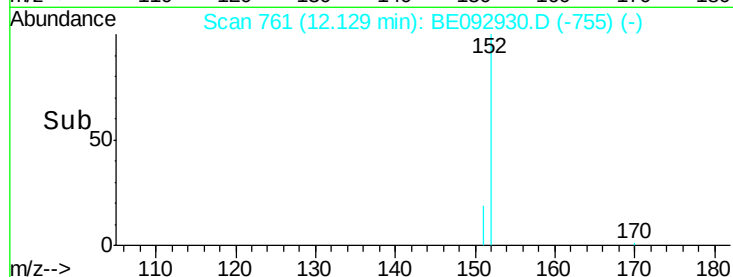
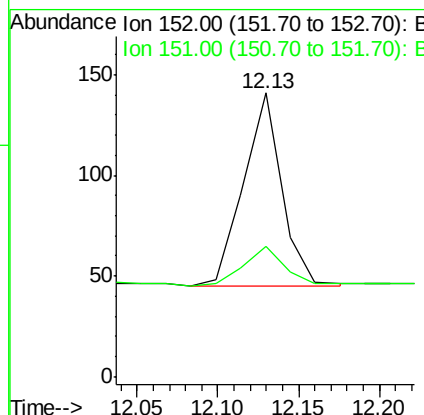
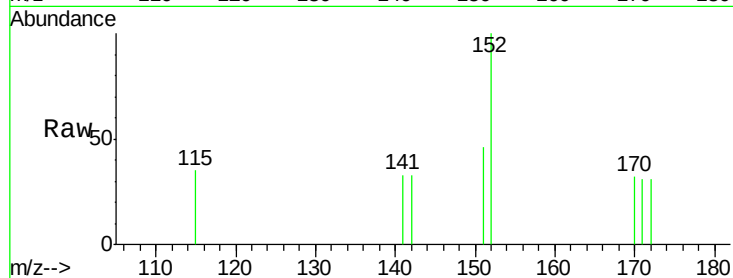
#11
 2-Methylnaphthalene-d10
 Concen: 0.03 ng
 RT: 12.13 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BE092930.D
 Acq: 5 May 2017 15:00

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILD

Tgt Ion:152 Resp: 158
 Ion Ratio Lower Upper
 152 100
 151 22.2 15.7 23.5

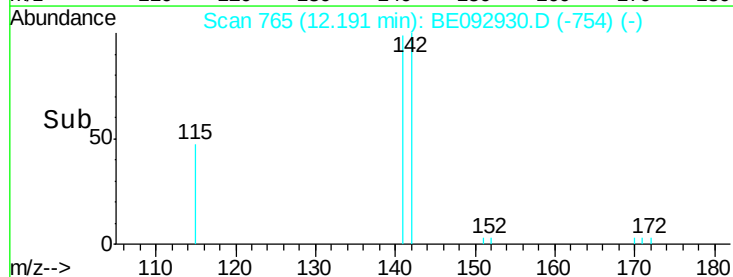
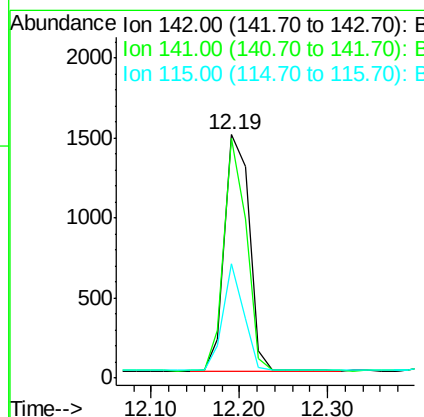
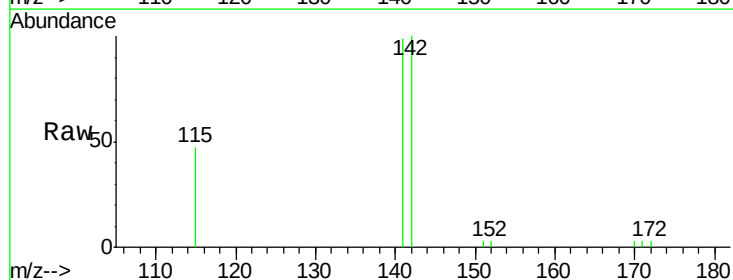
Manual Integrations
 APPROVED

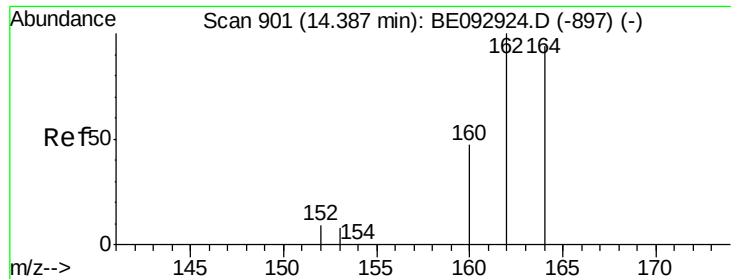
mohammad
 5/8/2017 2:46:58 PM



#12
 2-Methylnaphthalene
 Concen: 0.53 ng
 RT: 12.19 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: BE092930.D
 Acq: 5 May 2017 15:00

Tgt Ion:142 Resp: 2857
 Ion Ratio Lower Upper
 142 100
 141 98.6 76.0 114.0
 115 46.9 41.6 62.4





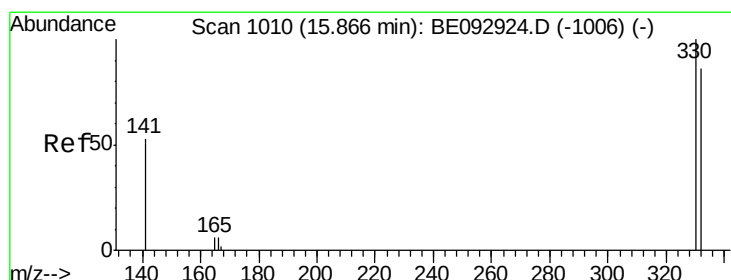
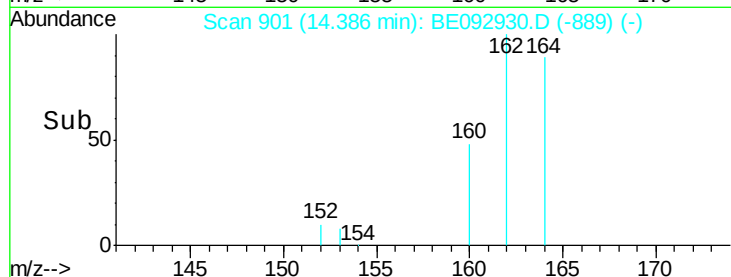
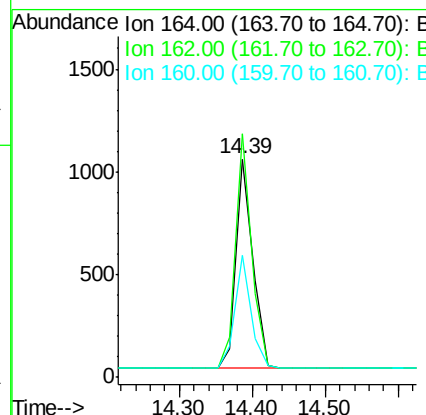
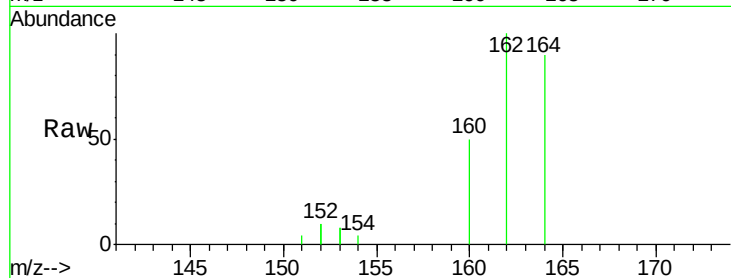
#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.39 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion:164 Resp: 1588
Ion Ratio Lower Upper
164 100
162 111.7 86.6 130.0
160 55.8 44.5 66.7

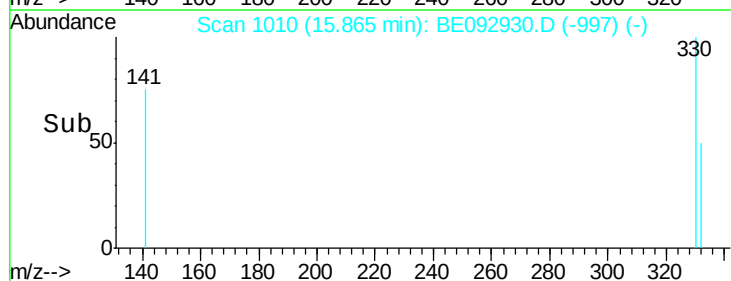
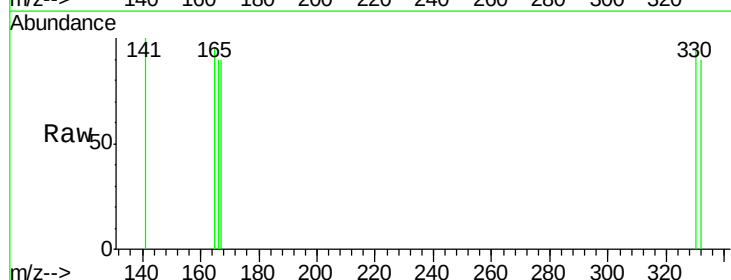
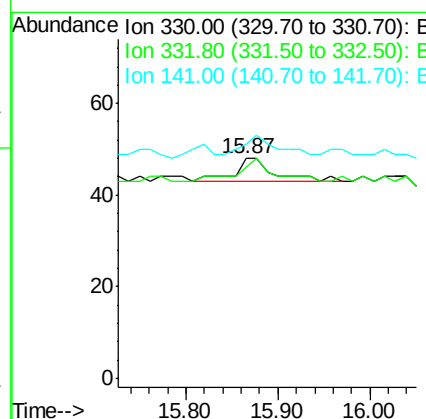
Manual Integrations
APPROVED

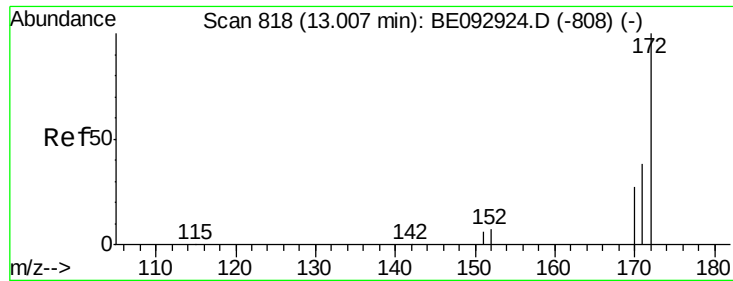
mohammad
5/8/2017 2:46:58 PM



#14
2,4,6-Tribromophenol
Concen: 0.06 ng
RT: 15.87 min Scan# 1010
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion:330 Resp: 15
Ion Ratio Lower Upper
330 100
332 86.7 69.1 103.7
141 53.3 54.6 81.8#





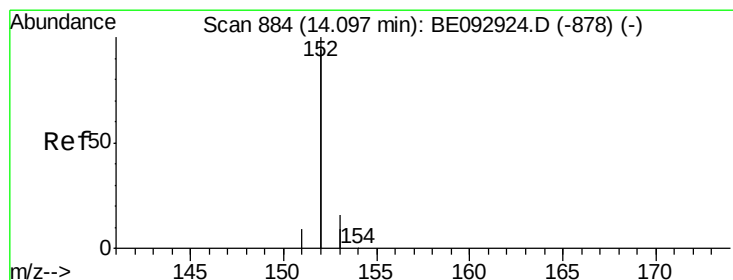
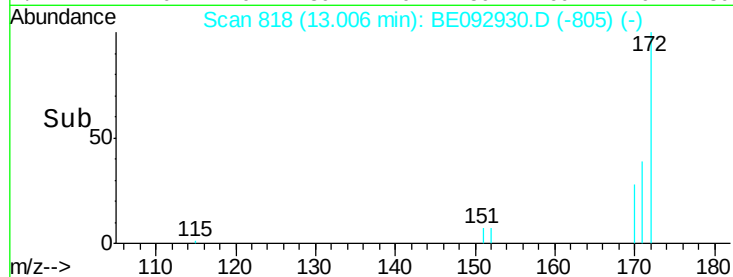
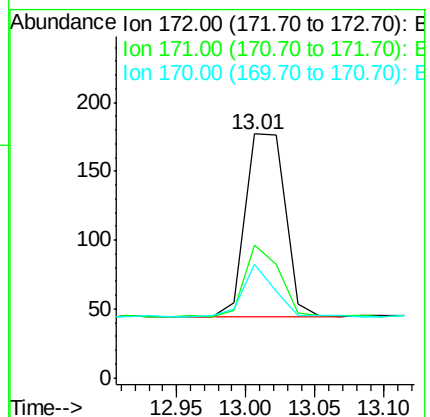
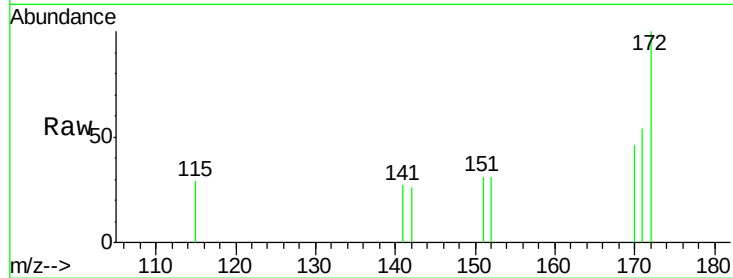
#15
2-Fluorobiphenyl
Concen: 0.04 ng
RT: 13.01 min Scan# 818
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	54.2	35.8	53.6#
170	46.3	28.5	42.7#

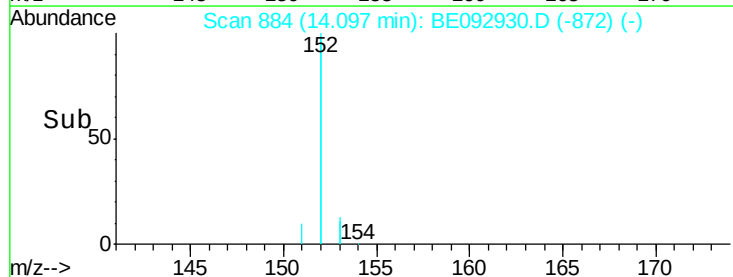
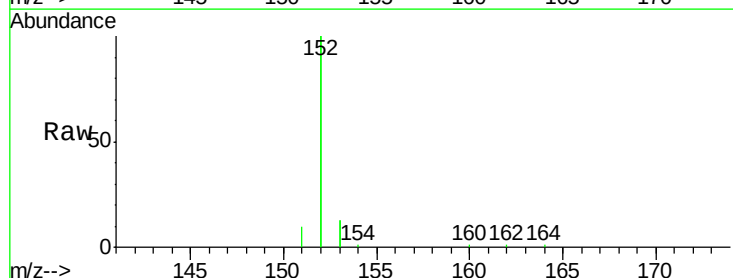
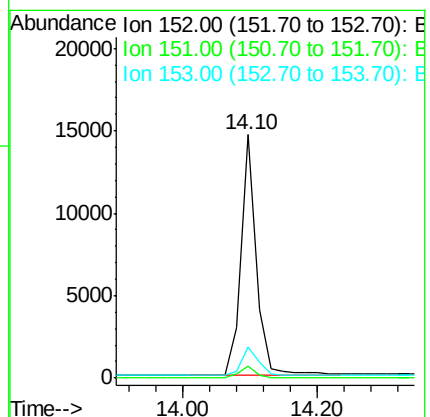
Manual Integrations
APPROVED

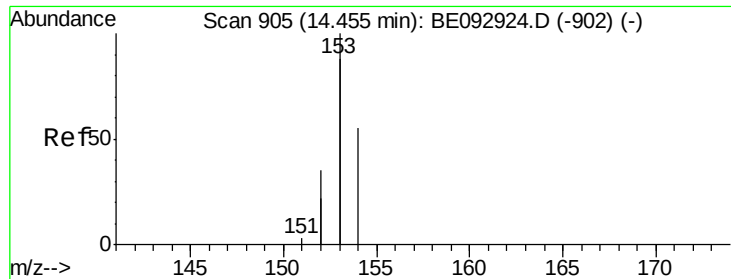
mohammad
5/8/2017 2:46:58 PM



#16
Acenaphthylene
Concen: 0.92 ng
RT: 14.10 min Scan# 884
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.8	5.8
153	12.8	10.0	15.0





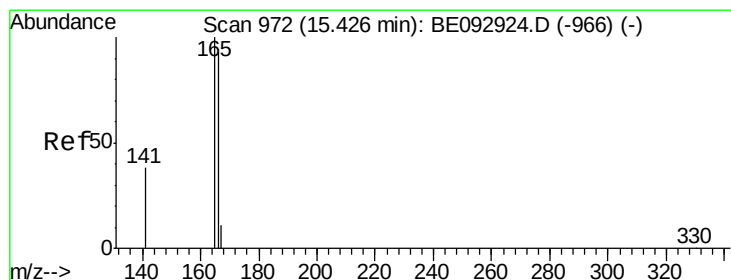
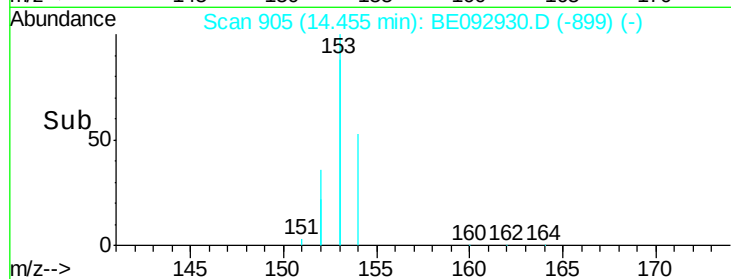
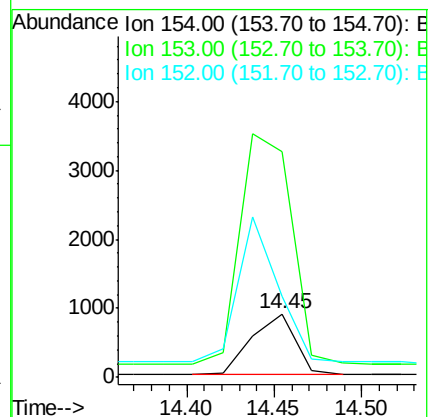
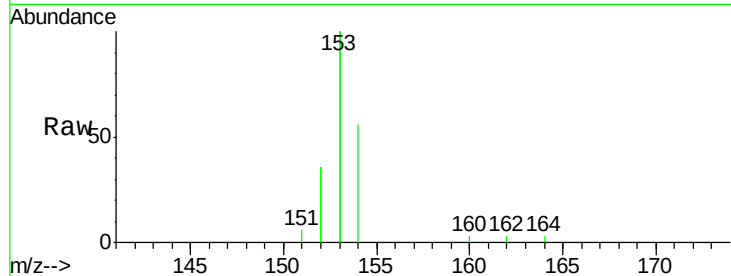
#17
Acenaphthene
Concen: 0.30 ng
RT: 14.45 min Scan# 905
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion	Ratio	Lower	Upper
154	100		
153	451.6	355.6	533.4
152	221.3	177.8	266.8

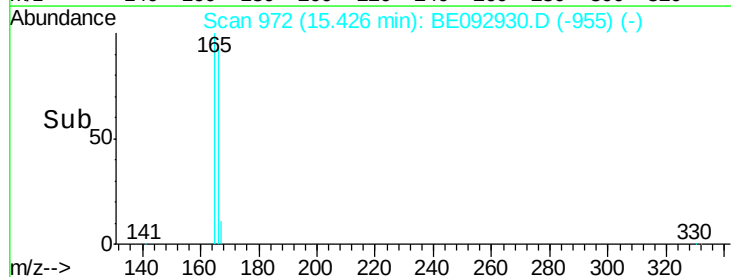
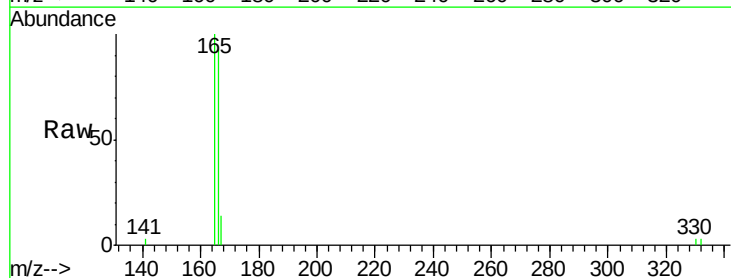
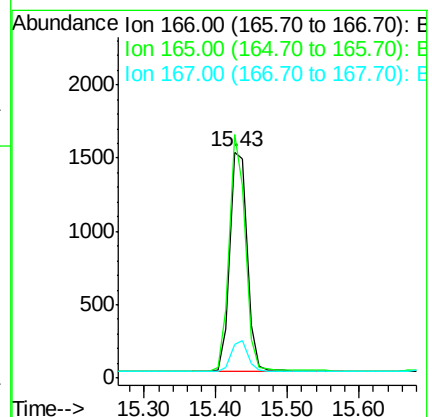
Manual Integrations
APPROVED

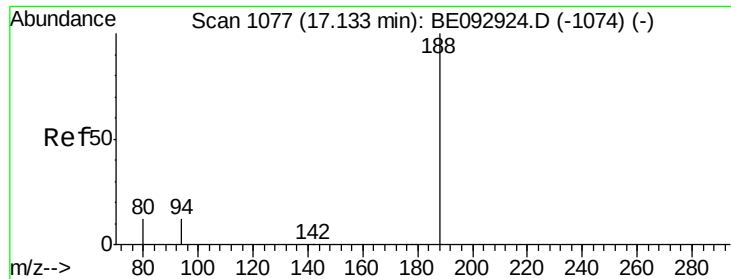
mohammad
5/8/2017 2:46:58 PM



#18
Fluorene
Concen: 0.41 ng
RT: 15.43 min Scan# 972
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.2	80.7	121.1
167	13.5	11.3	16.9





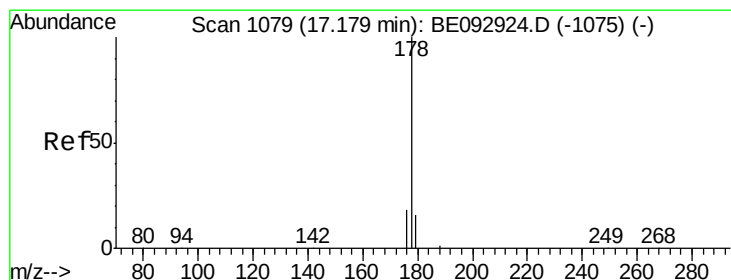
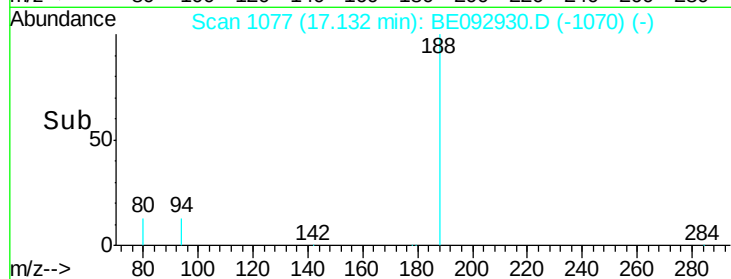
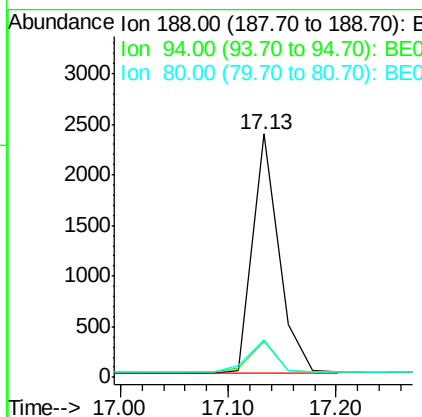
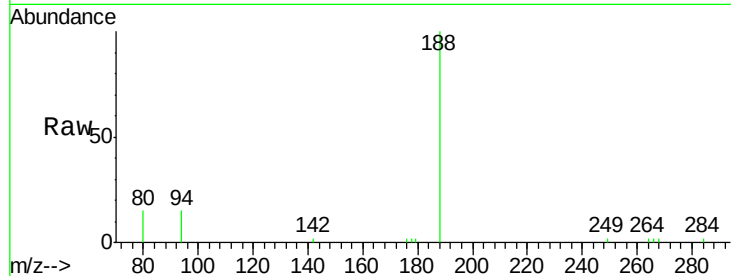
#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.13 min Scan# 1077
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	3992		
94	15.0		10.2	15.4
80	15.3		10.6	15.8

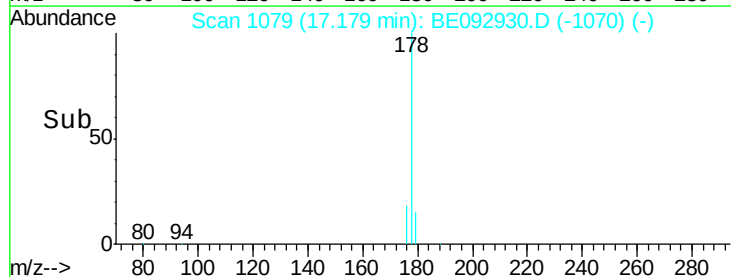
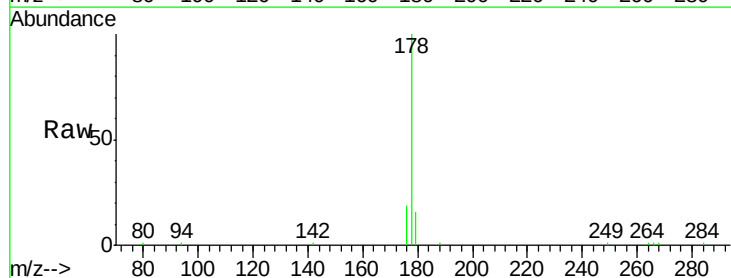
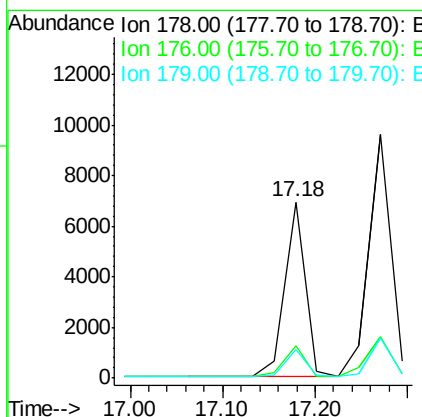
Manual Integrations
APPROVED

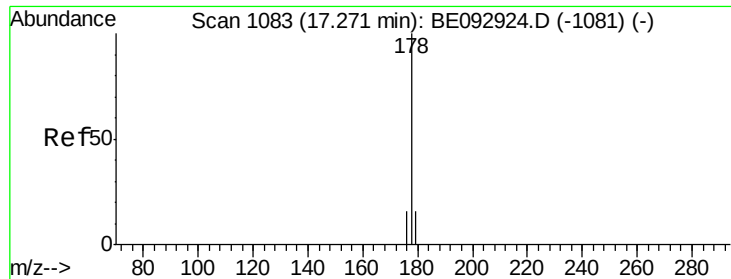
mohammad
5/8/2017 2:46:58 PM



#22
Phenanthrene
Concen: 0.96 ng
RT: 17.18 min Scan# 1079
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	10779		
176	18.9		14.2	21.4
179	15.2		13.6	20.4





#23

Anthracene

Concen: 1.87 ng

RT: 17.27 min Scan# 1083

Delta R.T. -0.00 min

Lab File: BE092930.D

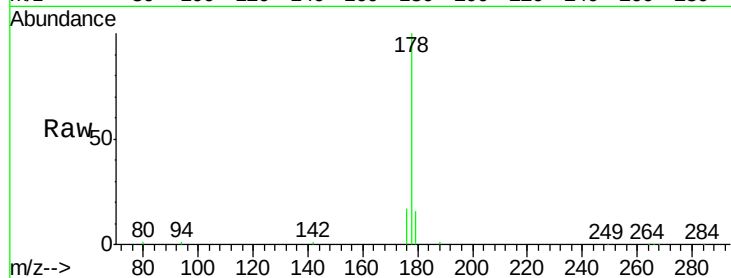
Acq: 5 May 2017 15:00

Instrument :

BNA_E

ClientSampleId :

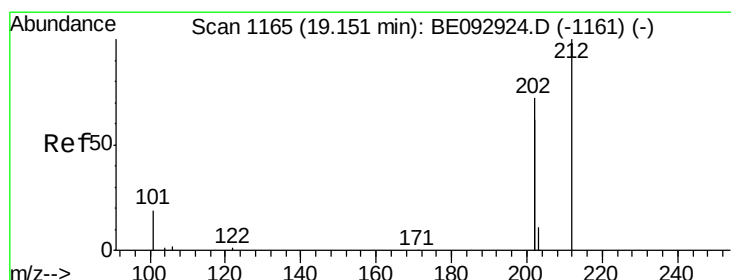
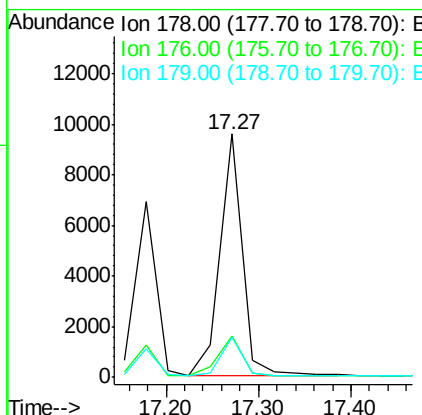
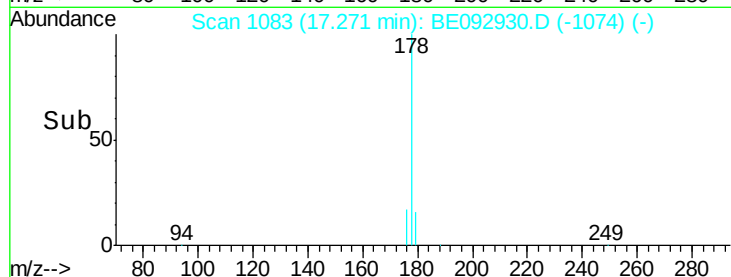
PT-PAH-SOILDL



Tgt Ion:	178	Resp:	16044
Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.7	22.1
179	15.6	12.8	19.2

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM



#24

Fluoranthene-d10

Concen: 0.03 ng

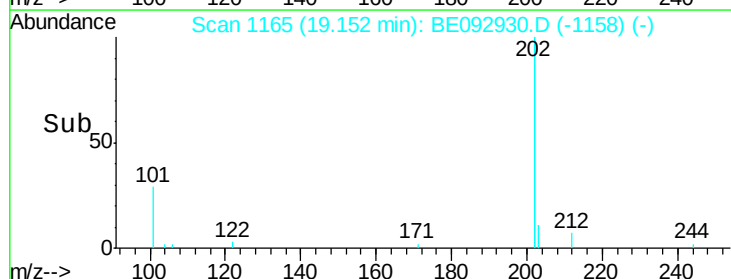
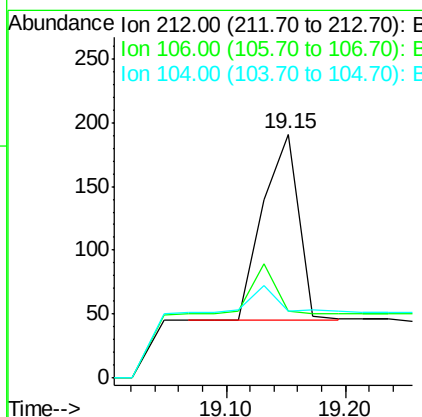
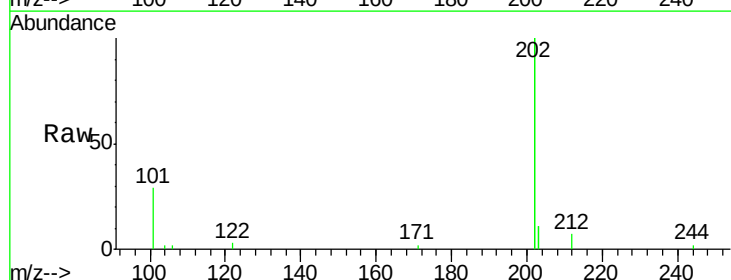
RT: 19.15 min Scan# 1165

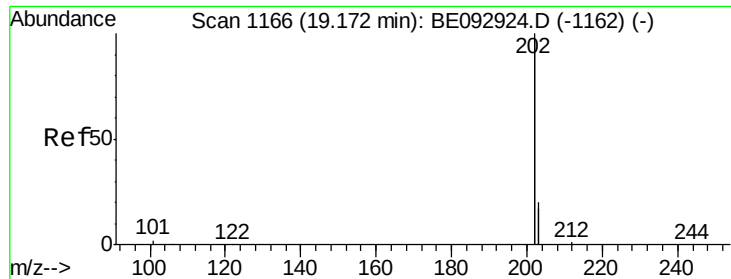
Delta R.T. 0.00 min

Lab File: BE092930.D

Acq: 5 May 2017 15:00

Tgt Ion:	212	Resp:	307
Ion	Ratio	Lower	Upper
212	100		
106	0.0	0.0	0.0
104	0.0	0.0	0.0





#25

Fluoranthene

Concen: 0.75 ng

RT: 19.17 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BE092930.D

Acq: 5 May 2017 15:00

Instrument :

BNA_E

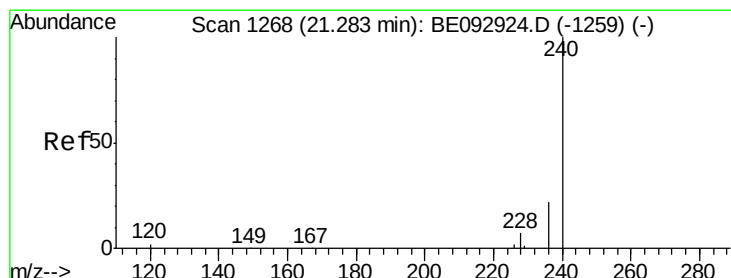
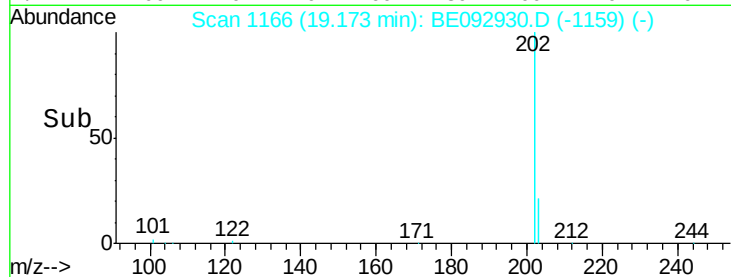
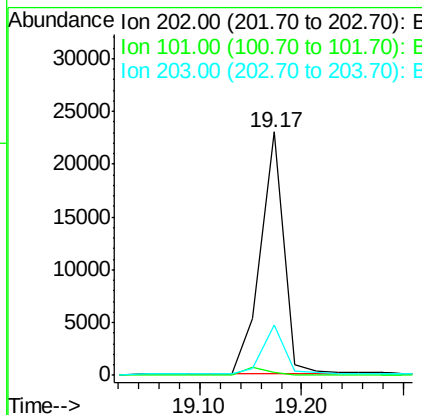
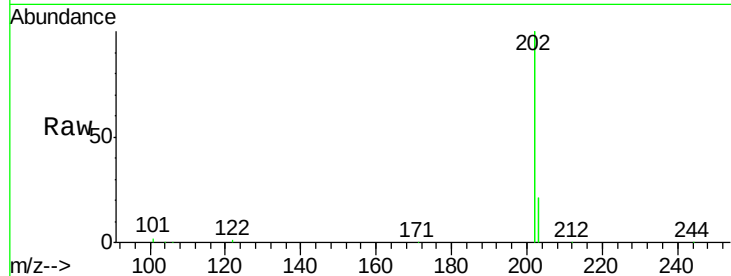
ClientSampleId :

PT-PAH-SOILDL

Tgt Ion:	202	Resp:	36427
Ion Ratio	Lower	Upper	
202	100		
101	0.0	0.0	0.0
203	18.2	15.3	22.9

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM



#26

Chrysene-d12

Concen: 0.40 ng

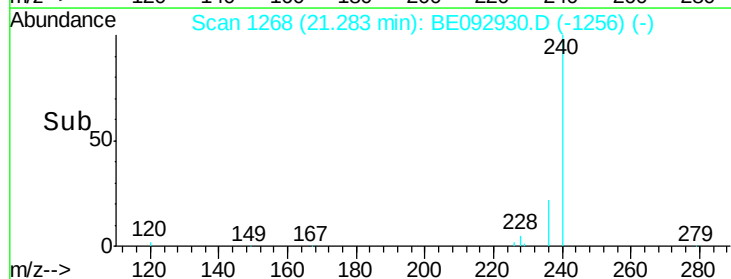
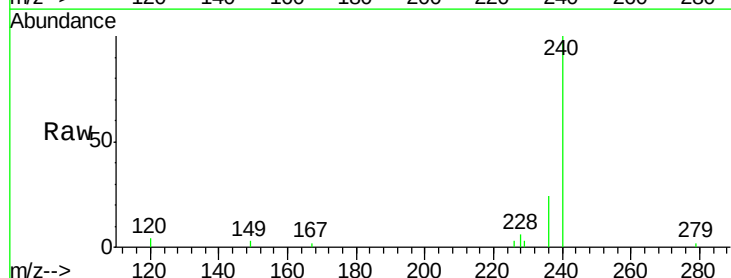
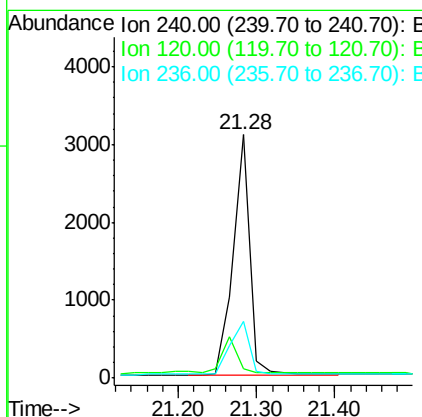
RT: 21.28 min Scan# 1268

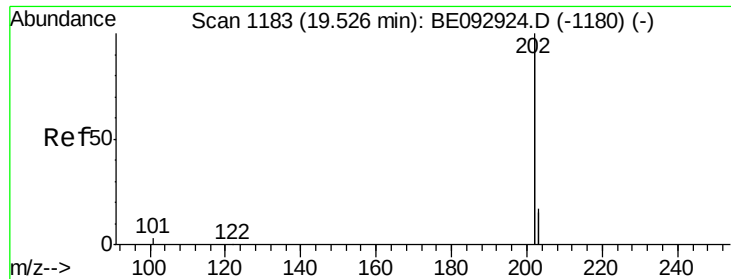
Delta R.T. -0.00 min

Lab File: BE092930.D

Acq: 5 May 2017 15:00

Tgt Ion:	240	Resp:	4528
Ion Ratio	Lower	Upper	
240	100		
120	3.8	4.6	6.8#
236	23.5	19.8	29.8





#27

Pyrene

Concen: 0.63 ng

RT: 19.53 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE092930.D

Acq: 5 May 2017 15:00

Instrument :

BNA_E

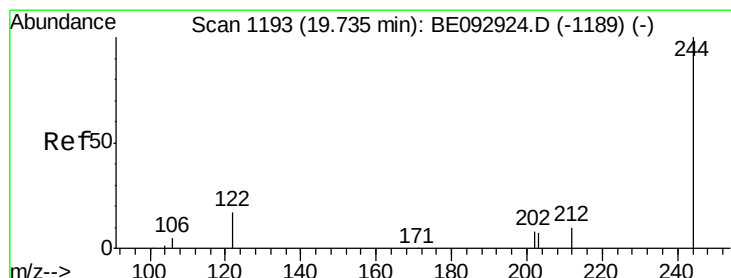
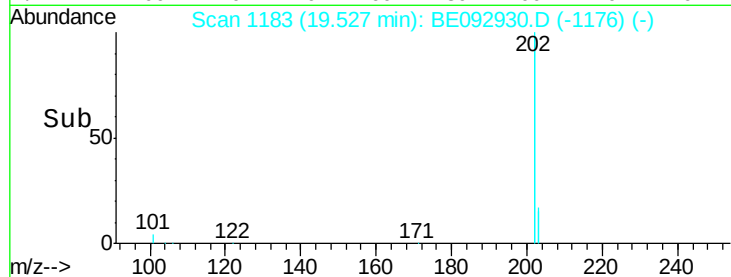
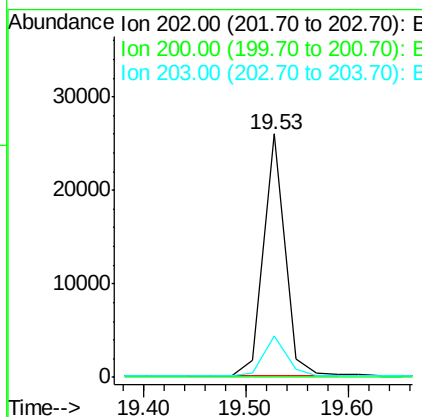
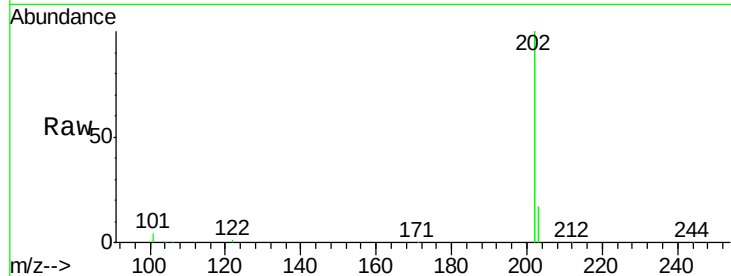
ClientSampleId :

PT-PAH-SOILDL

Tgt Ion:	202	Resp:	36897
Ion Ratio	Lower	Upper	
202	100		
200	0.0	0.0	0.0
203	17.6	13.5	20.3

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM



#28

Terphenyl-d14

Concen: 0.04 ng

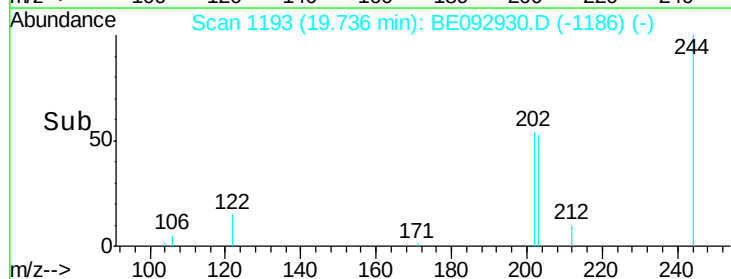
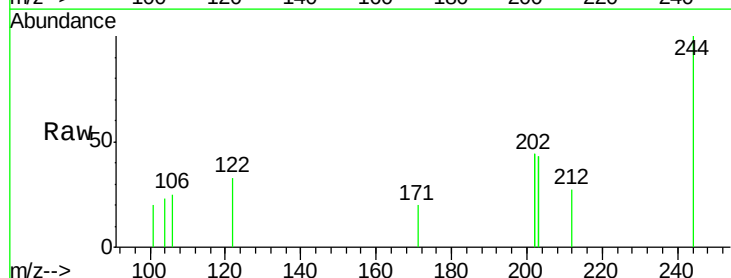
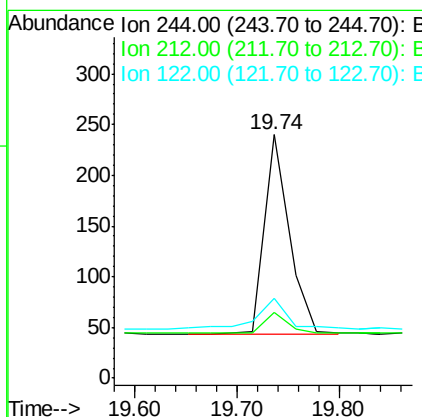
RT: 19.74 min Scan# 1193

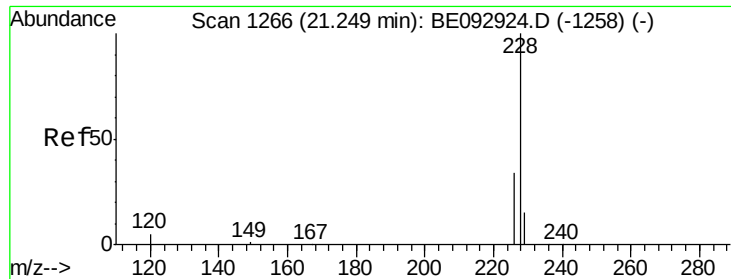
Delta R.T. 0.00 min

Lab File: BE092930.D

Acq: 5 May 2017 15:00

Tgt Ion:	244	Resp:	325
Ion Ratio	Lower	Upper	
244	100		
212	27.1	18.4	27.6
122	32.9	23.3	34.9





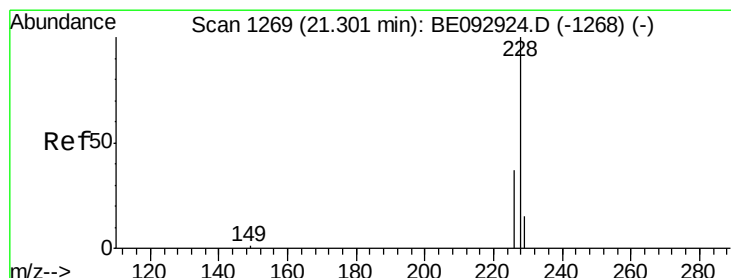
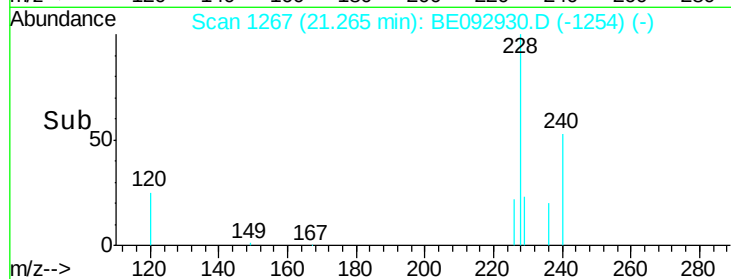
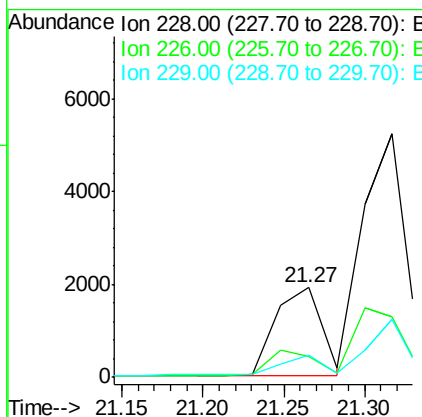
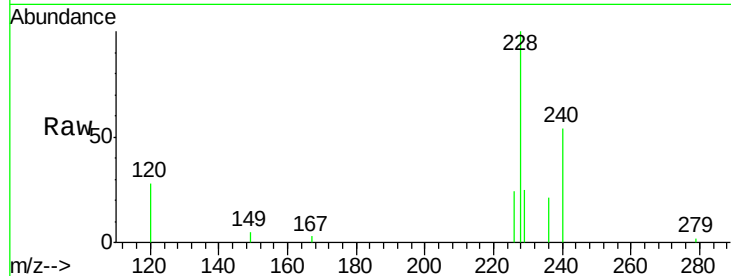
#29
Benzo(a)anthracene
Concen: 0.35 ng m
RT: 21.27 min Scan# 1267
Delta R.T. 0.02 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

Tgt Ion	Ratio	Lower	Upper
228	100		
226	23.8	32.0	48.0#
229	25.0	21.4	32.0

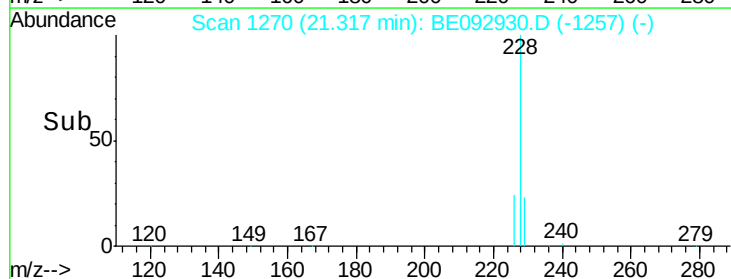
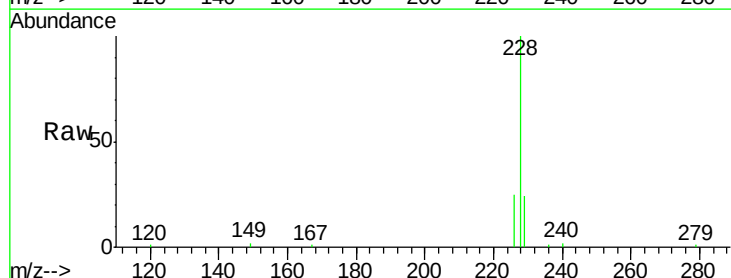
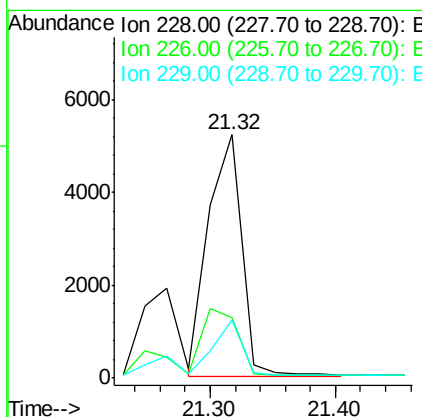
Manual Integrations
APPROVED

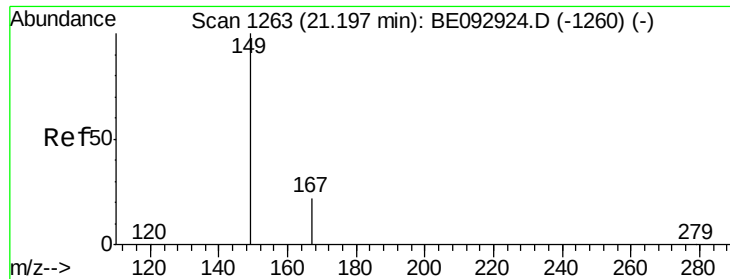
mohammad
5/8/2017 2:46:58 PM



#30
Chrysene
Concen: 0.72 ng m
RT: 21.32 min Scan# 1270
Delta R.T. 0.02 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.0	34.2	51.2#
229	23.9	18.6	28.0





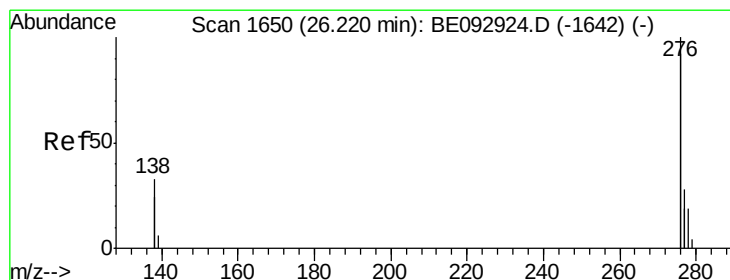
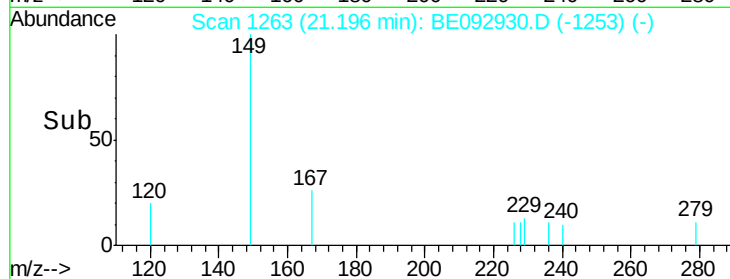
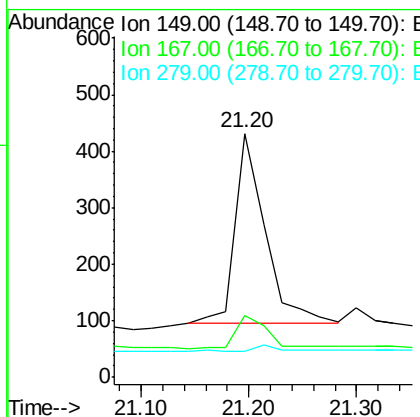
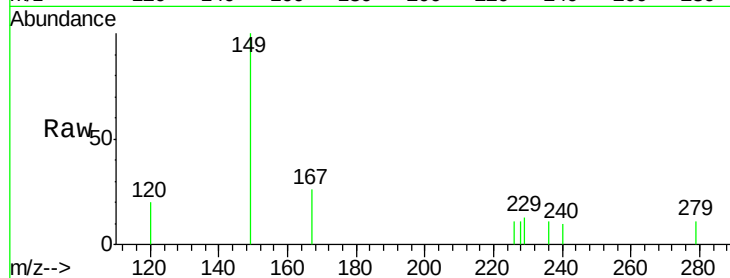
#31
 Bis(2-ethylhexyl)phthalate
 Concen: 0.22 ng
 RT: 21.20 min Scan# 1263
 Delta R.T. -0.00 min
 Lab File: BE092930.D
 Acq: 5 May 2017 15:00

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILDL

Tgt Ion	Ratio	Lower	Upper
149	100		
167	17.8	20.9	31.3#
279	0.0	0.0	0.0

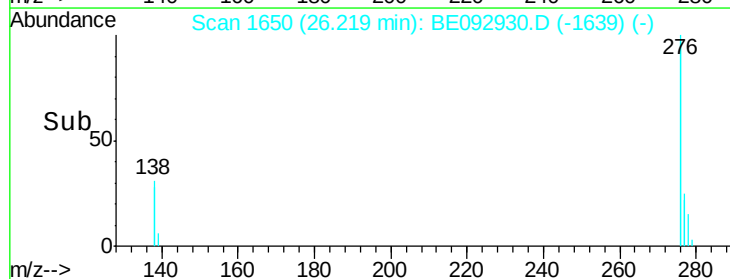
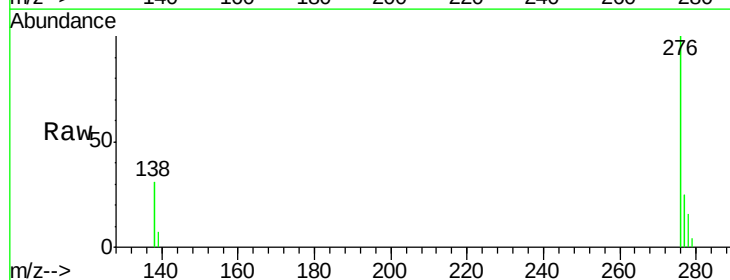
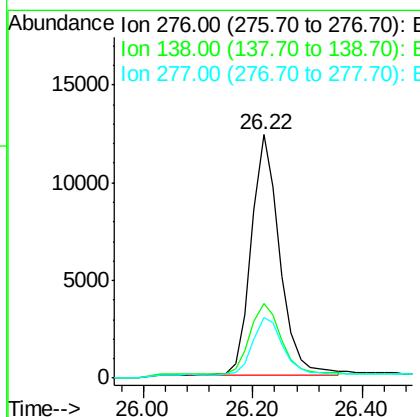
Manual Integrations
 APPROVED

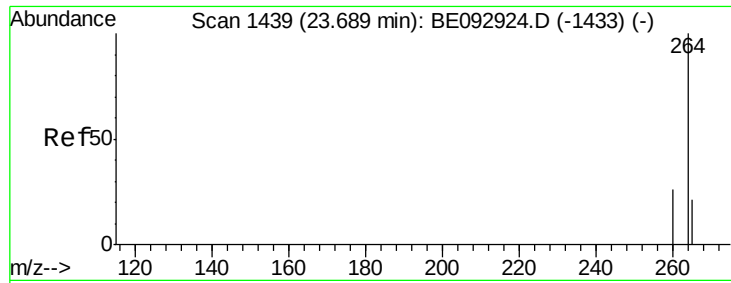
mohammad
 5/8/2017 2:46:58 PM



#32
 Indeno(1,2,3-cd)pyrene
 Concen: 0.90 ng
 RT: 26.22 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: BE092930.D
 Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.7	25.8	38.6
277	25.1	20.2	30.4





#33

Perylene-d12

Concen: 0.40 ng

RT: 23.69 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BE092930.D

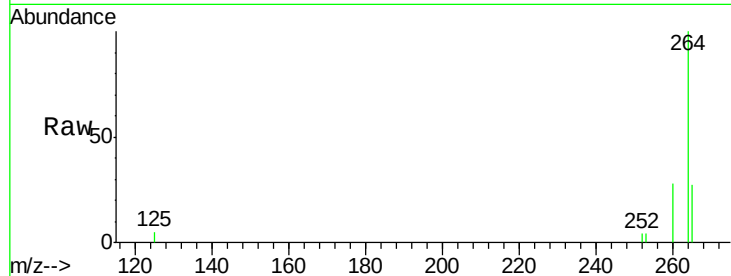
Acq: 5 May 2017 15:00

Instrument :

BNA_E

ClientSampleId :

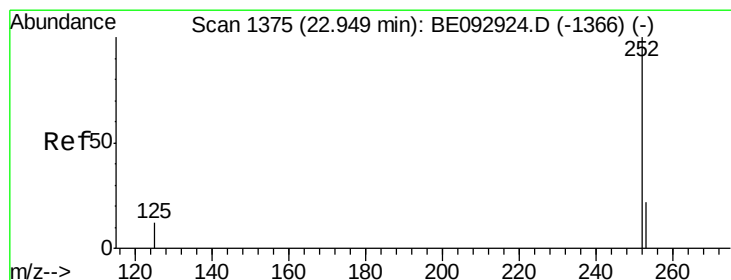
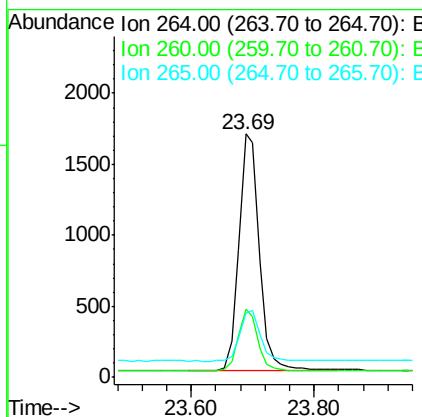
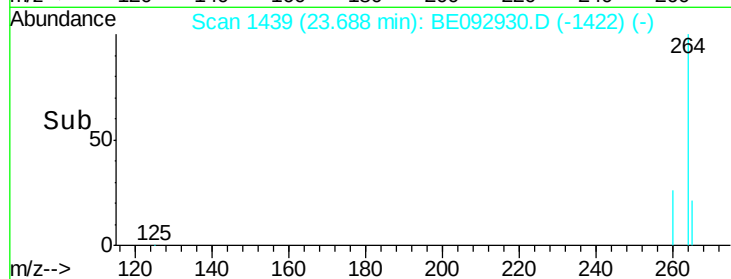
PT-PAH-SOILDL



Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.1	23.5	35.3
265	26.7	27.2	40.8

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM



#34

Benzo(b)fluoranthene

Concen: 0.30 ng

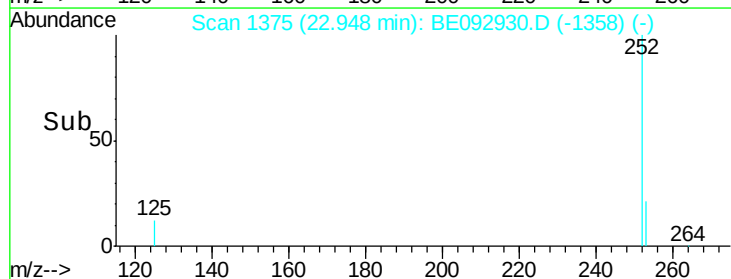
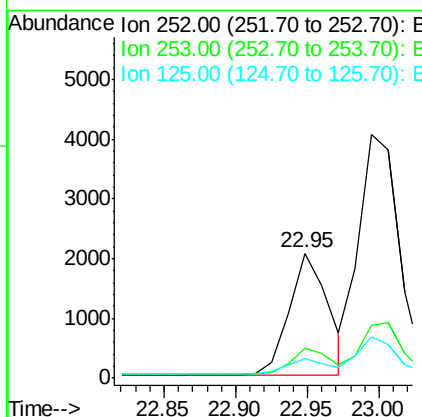
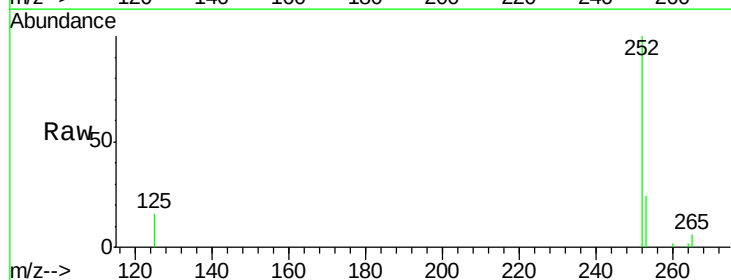
RT: 22.95 min Scan# 1375

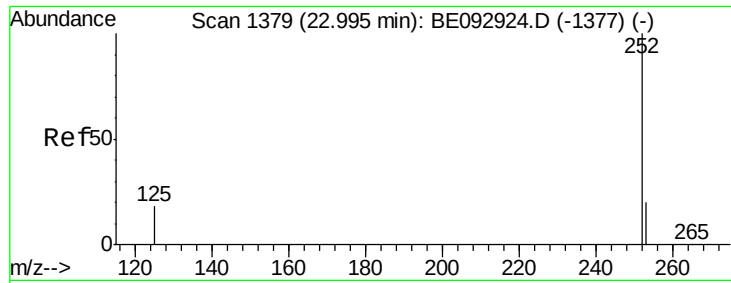
Delta R.T. -0.00 min

Lab File: BE092930.D

Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	24.7	37.1
125	15.7	20.3	30.5





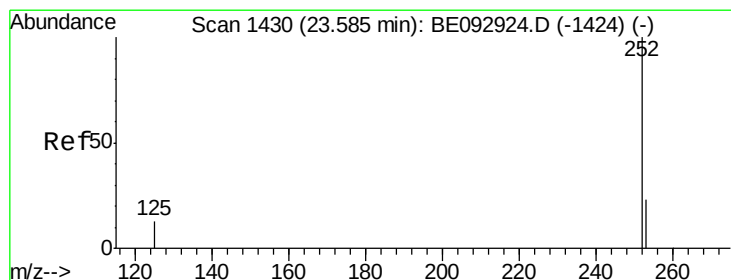
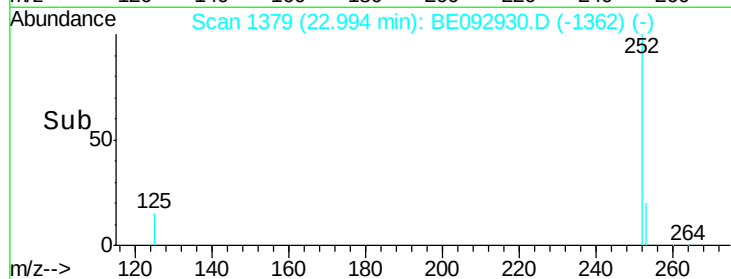
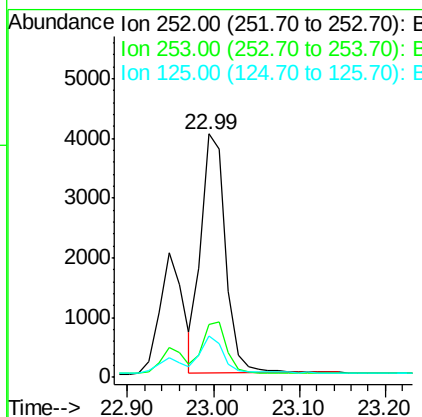
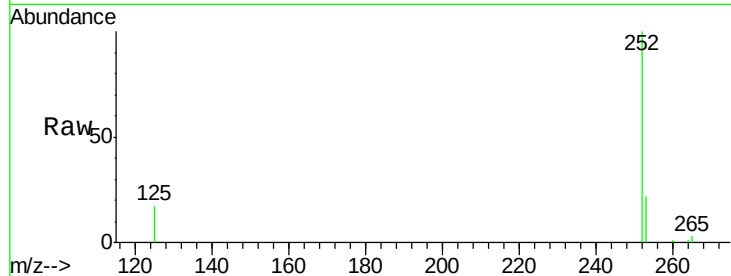
#35
Benzo(k)fluoranthene
Concen: 0.63 ng
RT: 22.99 min Scan# 1379
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	25.8	38.8#
125	17.1	22.9	34.3#

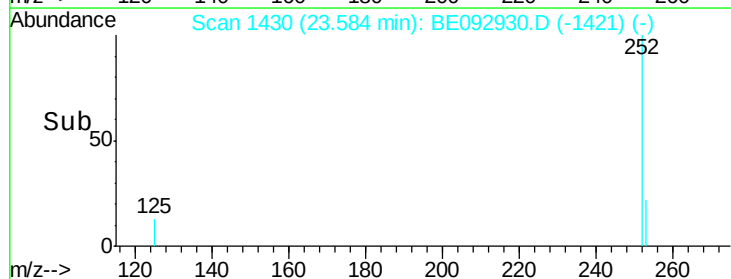
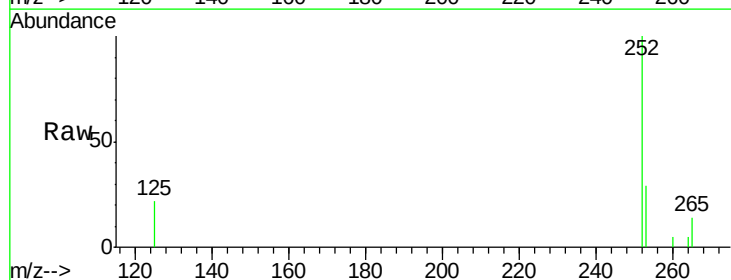
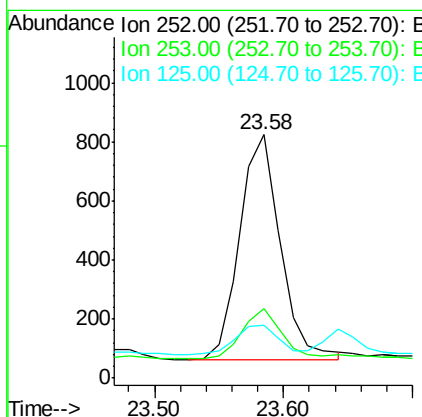
Manual Integrations
APPROVED

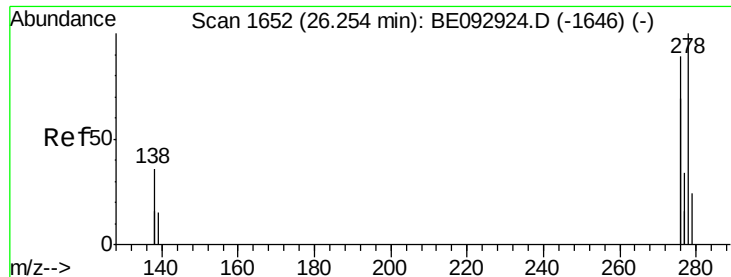
mohammad
5/8/2017 2:46:58 PM



#36
Benzo(a)pyrene
Concen: 0.16 ng
RT: 23.58 min Scan# 1430
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.5	31.3	46.9#
125	21.6	26.4	39.6#





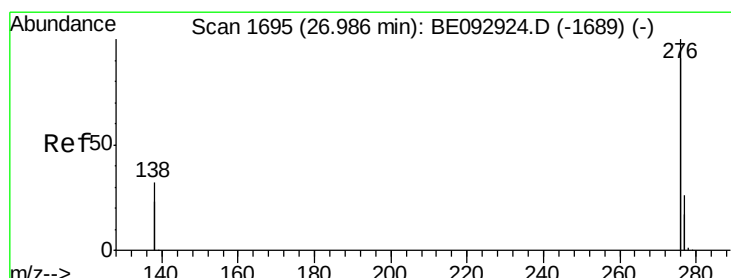
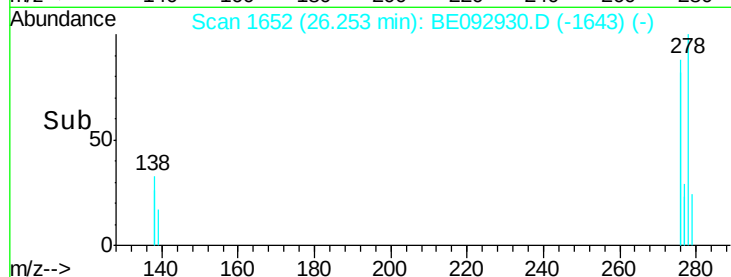
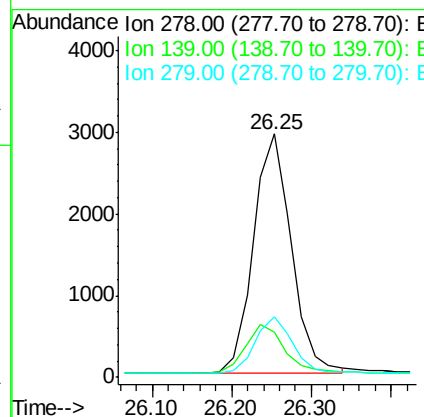
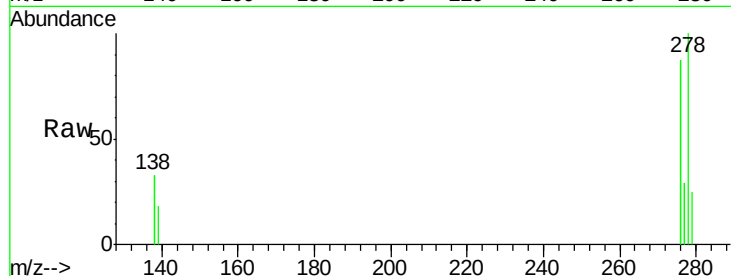
#37
Dibenzo(a,h)anthracene
Concen: 0.83 ng
RT: 26.25 min Scan# 1652
Delta R.T. -0.00 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.5	27.4	41.2#
279	25.1	33.3	49.9#

Manual Integrations
APPROVED

mohammad
5/8/2017 2:46:58 PM



#38
Benzo(g,h,i)perylene
Concen: 0.58 ng
RT: 27.00 min Scan# 1696
Delta R.T. 0.02 min
Lab File: BE092930.D
Acq: 5 May 2017 15:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	29.9	44.9#
138	27.3	34.6	51.8#

