

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\
 Data File : BF115774.D
 Acq On : 25 Jul 2019 22:40
 Operator : HP/JU
 Sample : K3983-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-1

Manual Integrations
 APPROVED

mohammad
 7/26/2019 3:23:16 PM

Quant Time: Jul 26 07:36:42 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 25 13:16:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	140206	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	508530	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	294688	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	513454	20.00	ng	0.00
76) Chrysene-d12	14.03	240	339908	20.00	ng	0.00
87) Perylene-d12	15.50	264	417541	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	839152	97.90	ng	0.00
7) Phenol-d6	6.50	99	1112240	102.26	ng	0.00
23) Nitrobenzene-d5	7.43	82	702057	80.27	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	325362	94.59	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	1220818	72.51	ng	0.00
79) Terphenyl-d14	12.97	244	1206747	65.51	ng	0.00
Target Compounds						
50) Dimethylphthalate	9.62	163	335497	15.132	ng	Qvalue 100
58) Fluorene	10.45	166	38009	2.040	ng	98
71) Phenanthrene	11.42	178	735372	27.941	ng	100
72) Anthracene	11.46	178	177232	6.516	ng	98
73) Carbazole	11.62	167	92230	3.867	ng	98
75) Fluoranthene	12.60	202	1120143	40.275	ng	98
78) Pyrene	12.83	202	968060	33.615	ng	99
81) Benzo(a)anthracene	14.02	228	501705	22.404	ng	98
83) Chrysene	14.06	228	454399	20.214	ng	97
84) Bis(2-ethylhexyl)phthalate	14.00	149	69987	4.602	ng	# 100
86) Indeno(1,2,3-cd)pyrene	16.97	276	284624	14.903	ng	95
88) Benzo(b)fluoranthene	15.07	252	595418m	22.146	ng	
89) Benzo(k)fluoranthene	15.09	252	218637m	9.121	ng	
90) Benzo(a)pyrene	15.43	252	427868	18.516	ng	97
91) Dibenzo(a,h)anthracene	16.97	278	76106m	3.751	ng	
92) Benzo(g,h,i)perylene	17.42	276	254604	12.584	ng	98

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

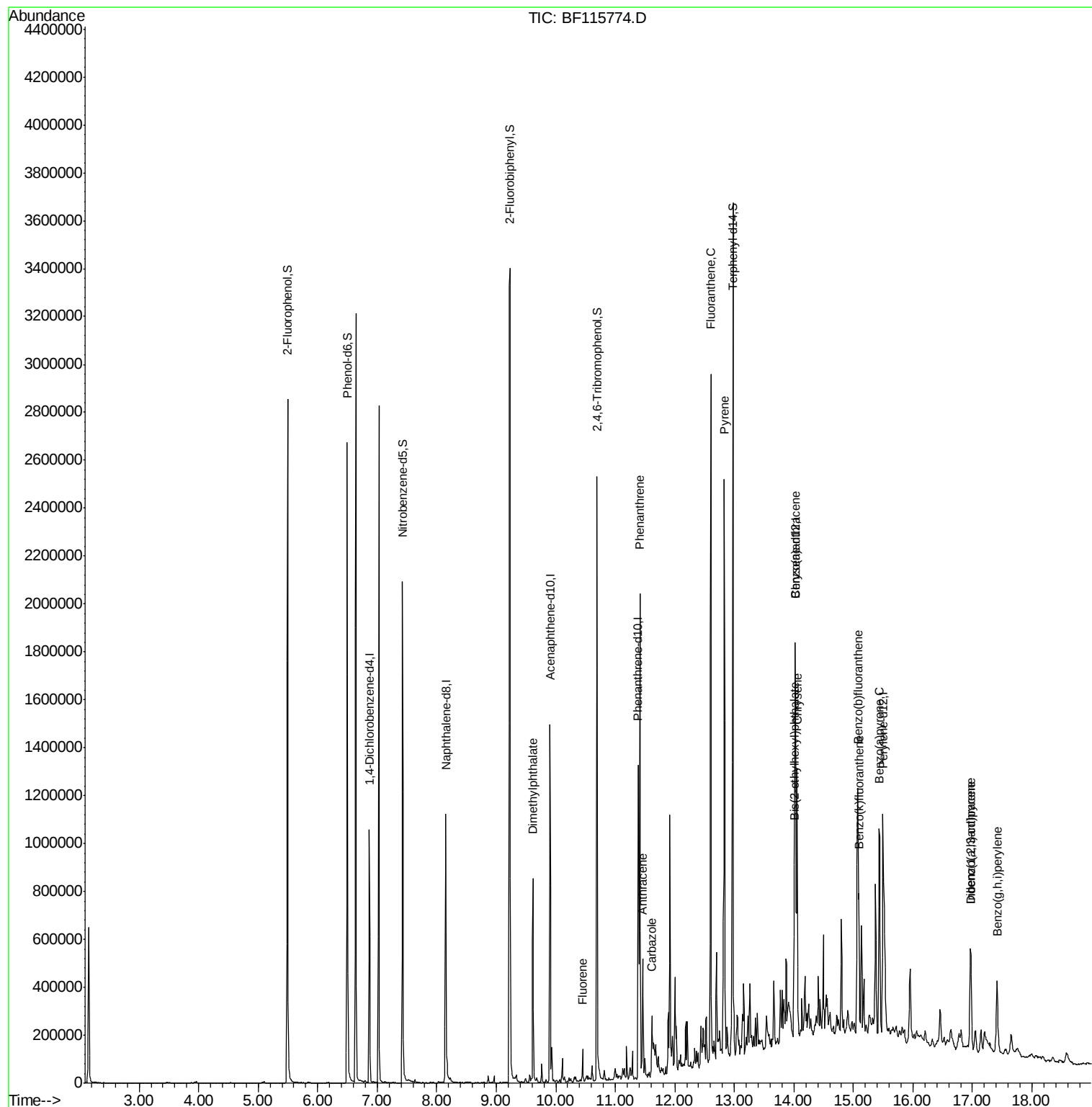
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\
Data File : BF115774.D
Acq On : 25 Jul 2019 22:40
Operator : HP/JU
Sample : K3983-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

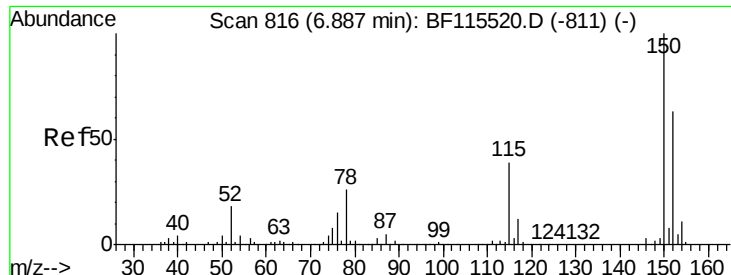
Instrument :
BNA_F
ClientSampled :
SP-1

Manual Integrations
APPROVED

mohammad
7/26/2019 3:23:16 PM

Quant Time: Jul 26 07:36:42 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 25 13:16:07 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.87 min Scan# 813

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Instrument :

BNA_F

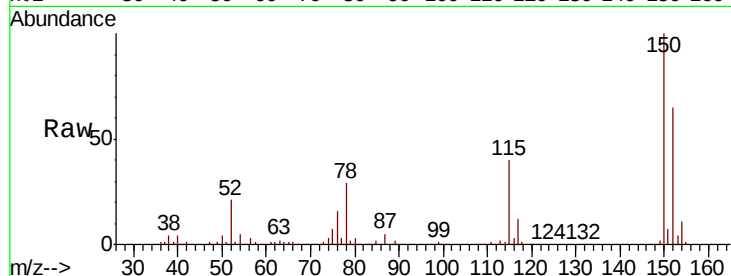
ClientSampleId :

SP-1

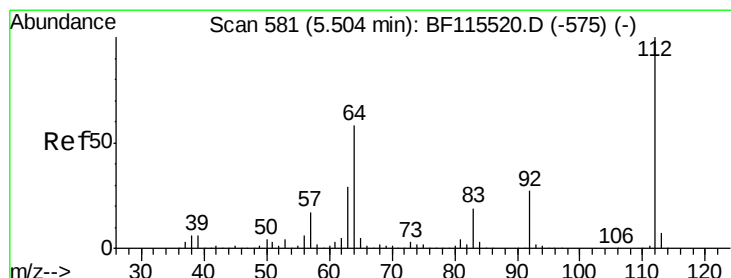
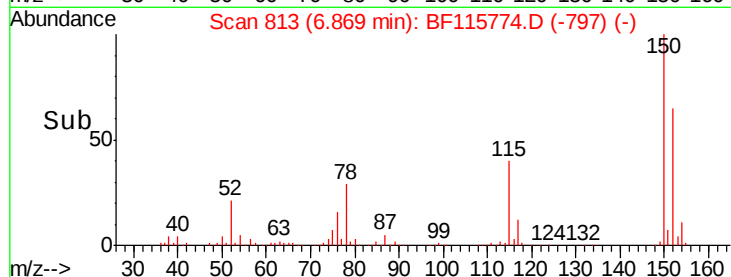
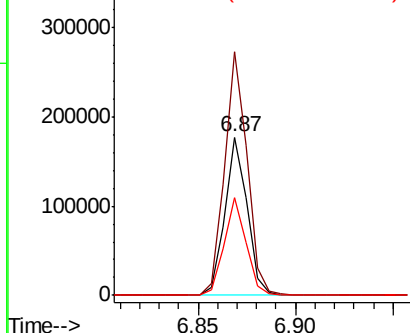
Tot Ion:	152	Resp:	140206
Ion Ratio	Lower	Upper	
152	100		
150	154.0	126.6	189.8
115	61.5	47.8	71.6

Manual Integrations
APPROVED

mohammad
7/26/2019 3:23:16 PM



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 97.899 ng

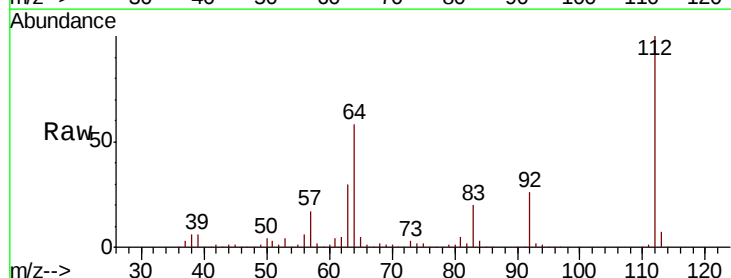
RT: 5.49 min Scan# 579

Delta R.T. -0.00 min

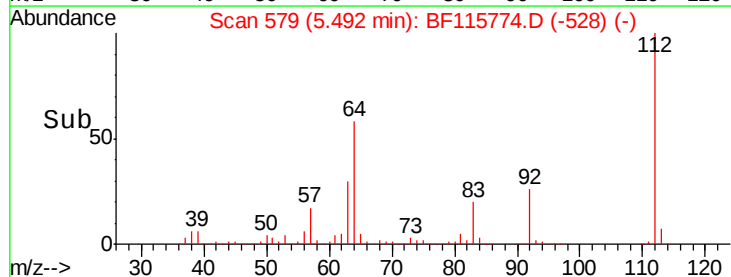
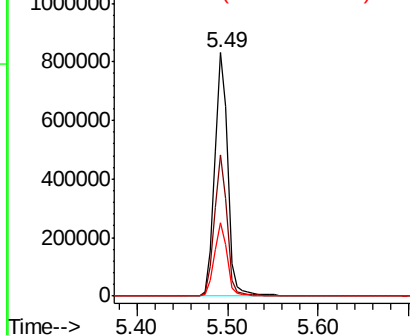
Lab File: BF115774.D

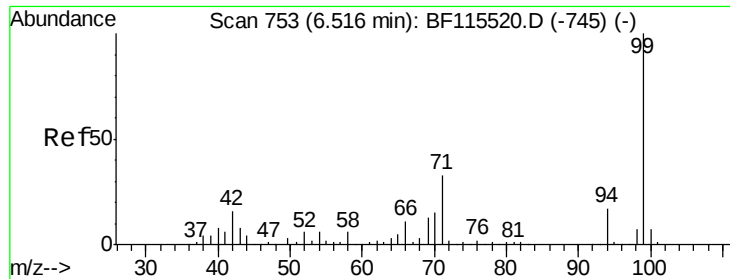
Acq: 25 Jul 2019 22:40

Tgt Ion:	112	Resp:	839152
Ion Ratio	Lower	Upper	
112	100		
64	58.2	45.8	68.8
63	29.9	23.6	35.4



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 102.262 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Instrument :

BNA_F

ClientSampled :

SP-1

Tot Ion: 99 Resp: 1112240

Ion Ratio Lower Upper

99 100

42 16.9 13.4 20.2

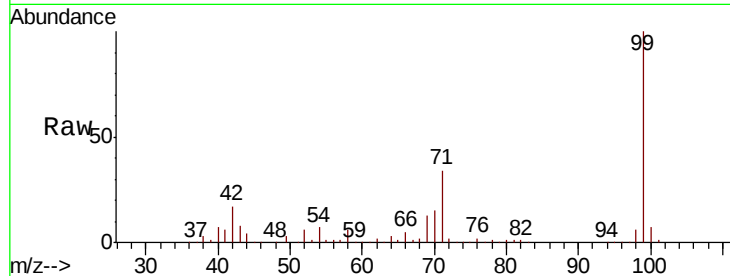
71 33.8 26.7 40.1

Manual Integrations

APPROVED

mohammad

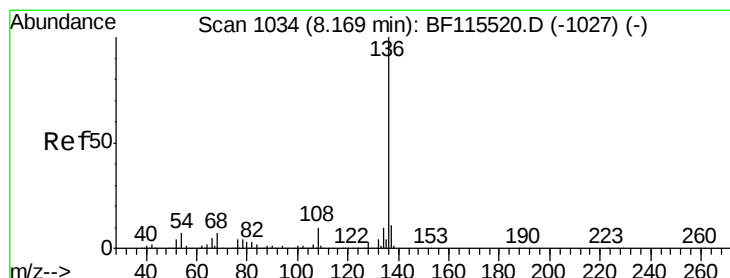
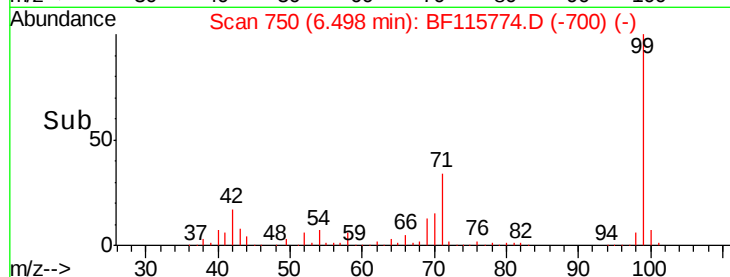
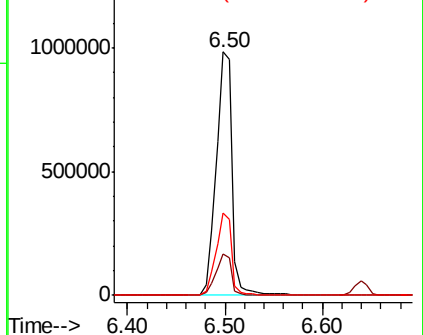
7/26/2019 3:23:16 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Tgt Ion: 136 Resp: 508530

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 6.8 5.0 7.6

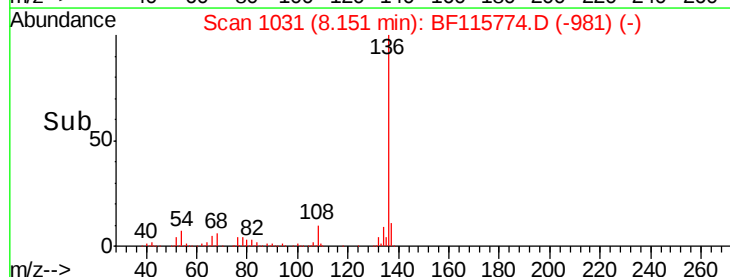
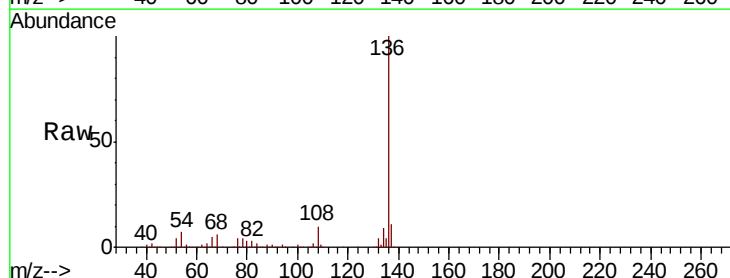
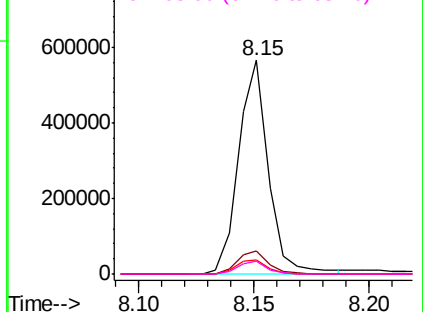
68 5.8 4.7 7.1

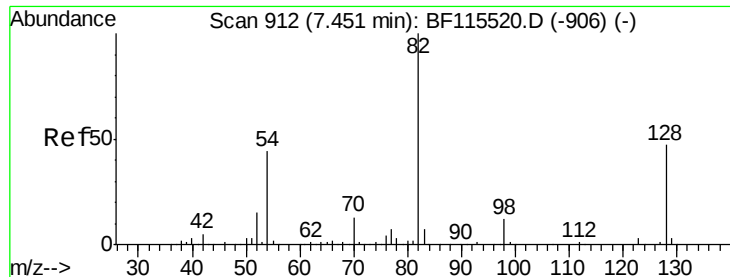
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





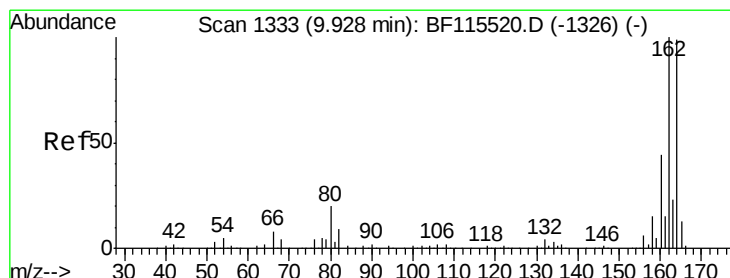
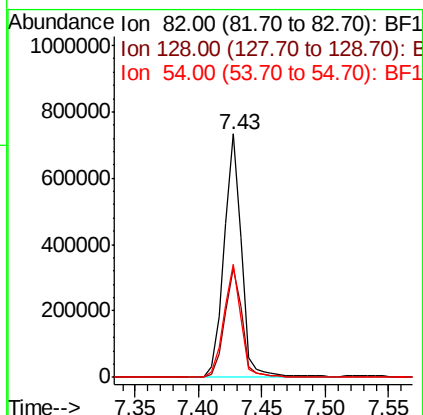
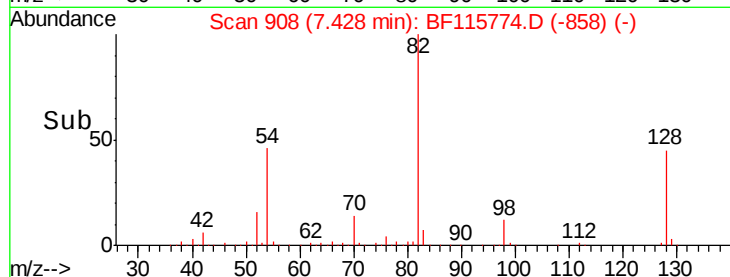
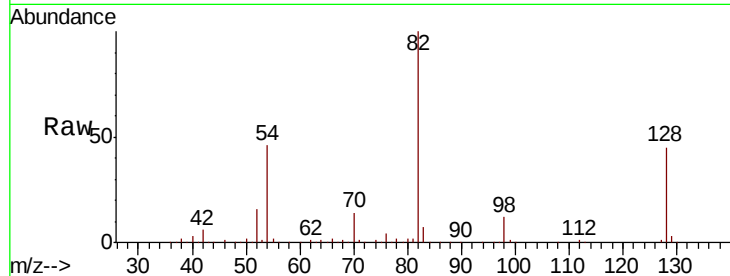
#23
 Nitrobenzene-d5
 Concen: 80.275 ng
 RT: 7.43 min Scan# 908
 Delta R.T. -0.01 min
 Lab File: BF115774.D
 Acq: 25 Jul 2019 22:40

Instrument :
 BNA_F
 ClientSampled :
 SP-1

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.6	55.0
54	46.4	36.6	54.8

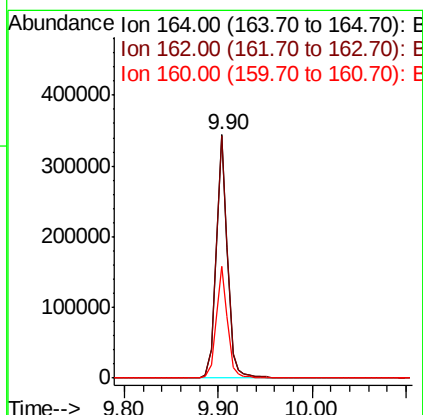
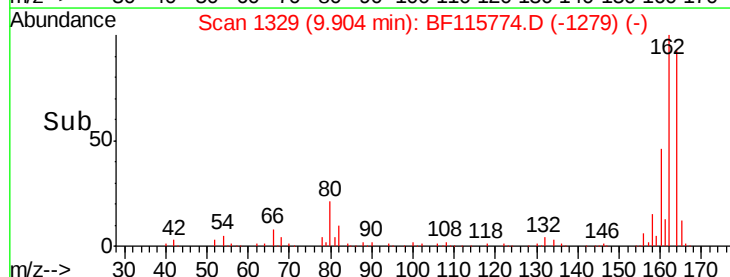
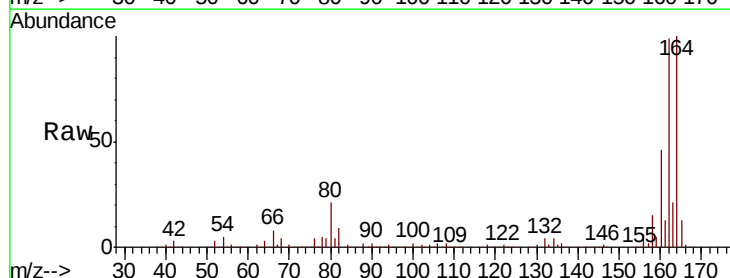
Manual Integrations
 APPROVED

mohammad
 7/26/2019 3:23:16 PM



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.90 min Scan# 1329
 Delta R.T. -0.01 min
 Lab File: BF115774.D
 Acq: 25 Jul 2019 22:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.3	81.8	122.6
160	45.8	37.5	56.3





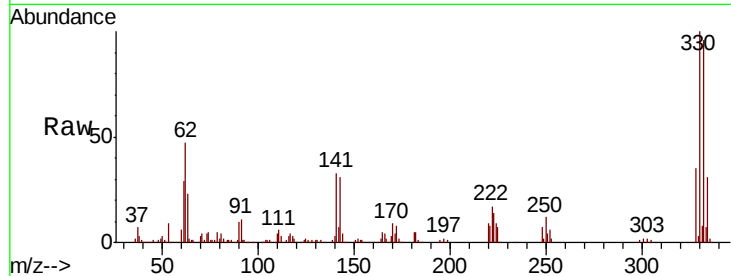
#42
 2,4,6-Tribromophenol
 Concen: 94.590 ng
 RT: 10.69 min Scan# 1463
 Delta R.T. -0.01 min
 Lab File: BF115774.D
 Acq: 25 Jul 2019 22:40

Instrument :
 BNA_F
 ClientSampled :
 SP-1

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.0	76.1	114.1	
141	33.2	25.9	38.9	

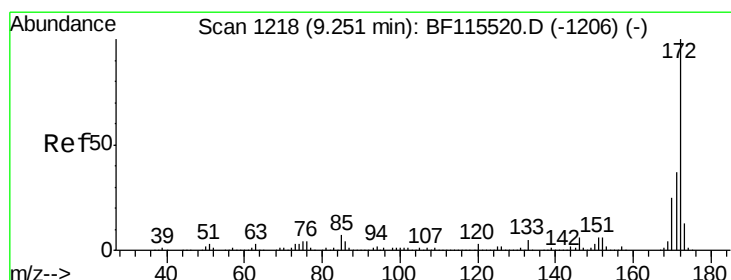
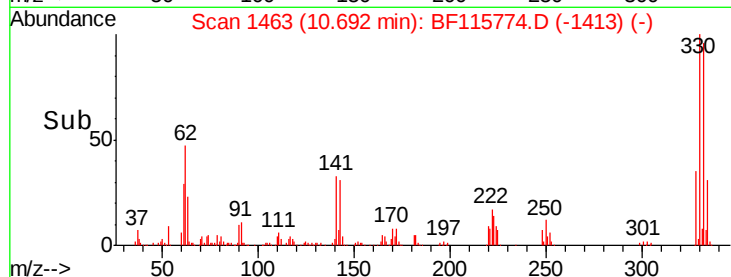
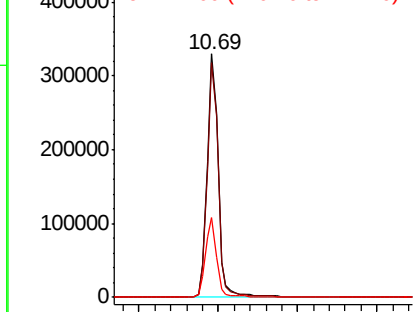
Manual Integrations
 APPROVED

mohammad
 7/26/2019 3:23:16 PM



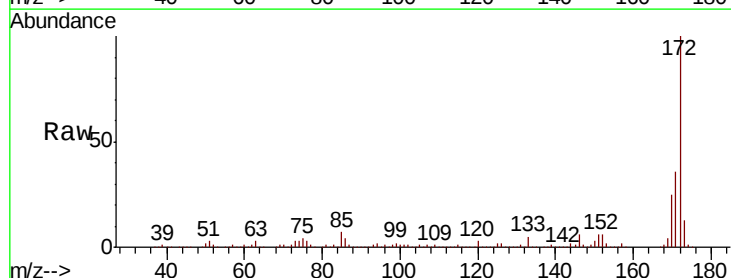
Abundance

Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E



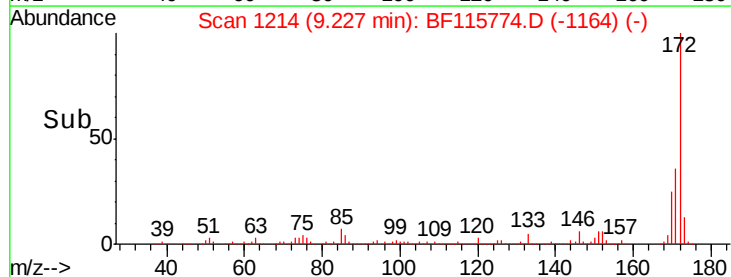
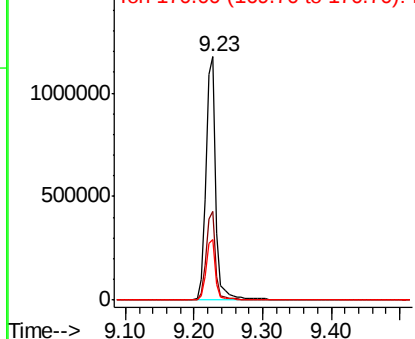
#45
 2-Fluorobiphenyl
 Concen: 72.510 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.01 min
 Lab File: BF115774.D
 Acq: 25 Jul 2019 22:40

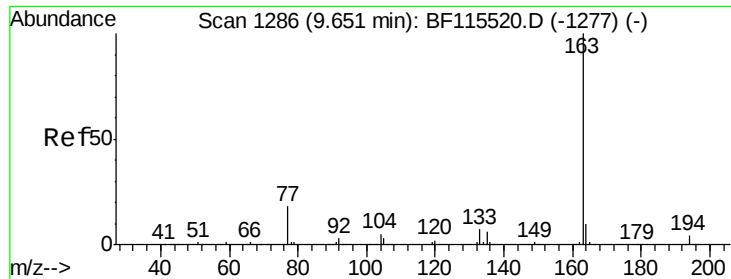
Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.2	29.0	43.4	
170	24.8	20.1	30.1	



Abundance

Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





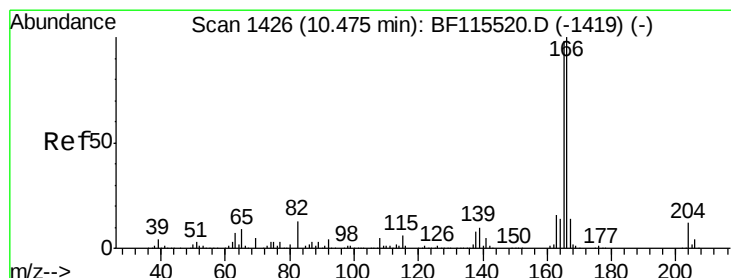
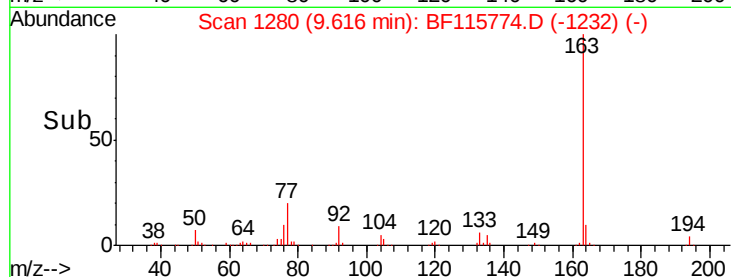
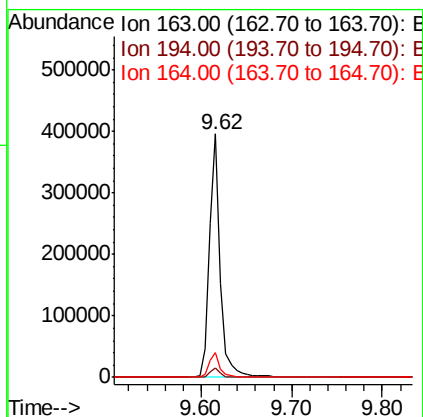
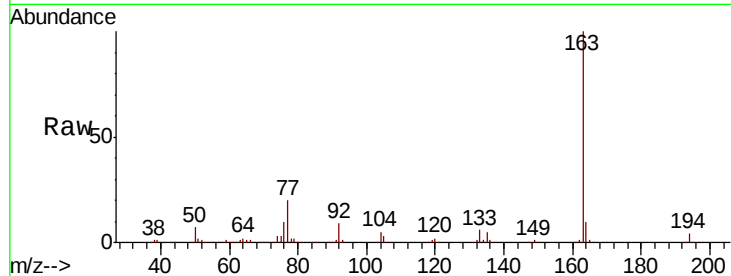
#50
Dimethylphthalate
Concen: 15.132 ng
RT: 9.62 min Scan# 1280
Delta R.T. -0.02 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Instrument :
BNA_F
ClientSampled :
SP-1

Tot Ion	Ratio	Resp	Lower	Upper
163	100	335497		
194	3.9		3.2	4.8
164	10.2		8.3	12.5

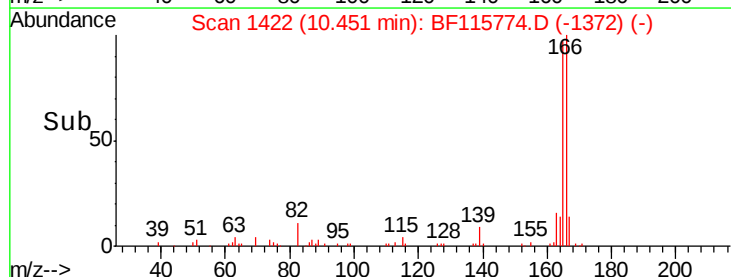
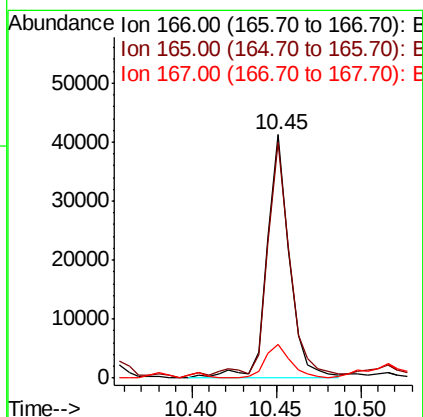
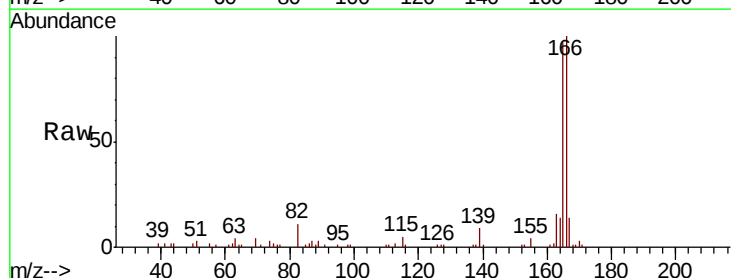
Manual Integrations
APPROVED

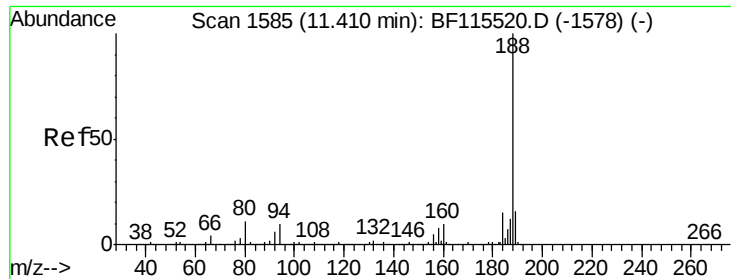
mohammad
7/26/2019 3:23:16 PM



#58
Fluorene
Concen: 2.040 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	38009		
165	97.0		79.0	118.4
167	13.6		11.0	16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Instrument :

BNA_F

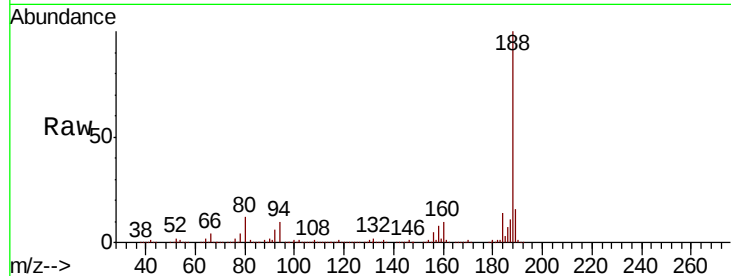
ClientSampleId :

SP-1

Tot Ion:	188	Resp:	513454
Ion Ratio	Lower	Upper	
188	100		
94	10.3	8.2	12.2
80	11.5	9.0	13.6

Manual Integrations
APPROVED

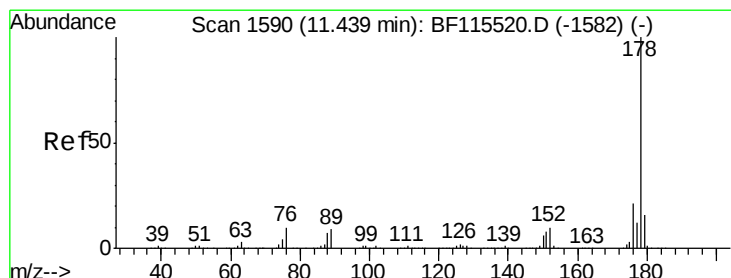
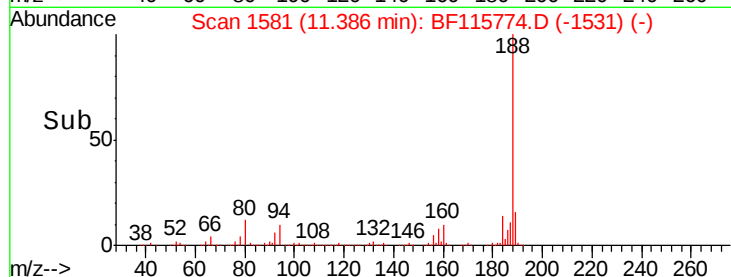
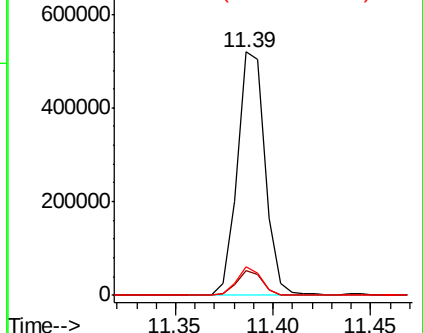
mohammad
7/26/2019 3:23:16 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 27.941 ng

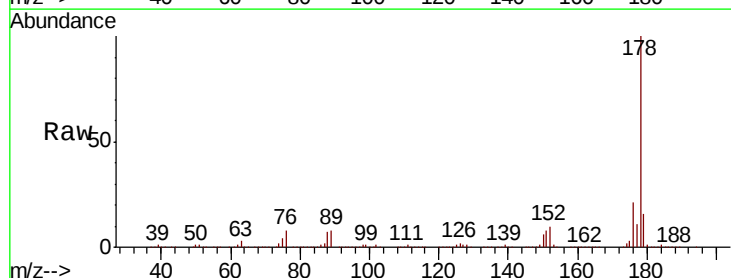
RT: 11.42 min Scan# 1586

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

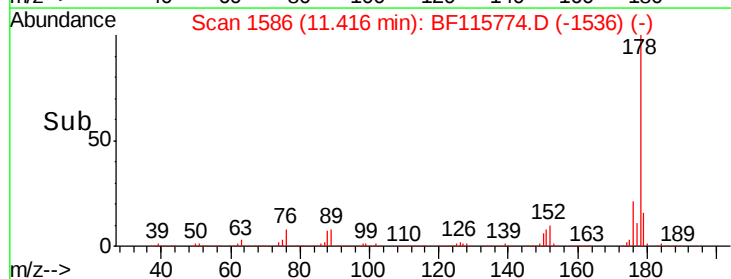
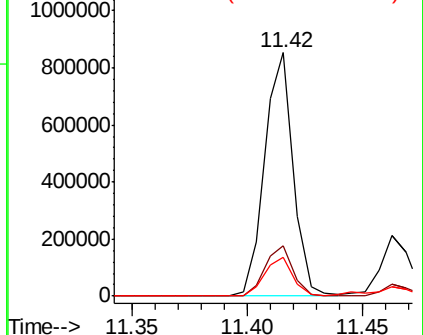
Tgt Ion:	178	Resp:	735372
Ion Ratio	Lower	Upper	
178	100		
176	20.6	16.4	24.6
179	15.9	12.7	19.1

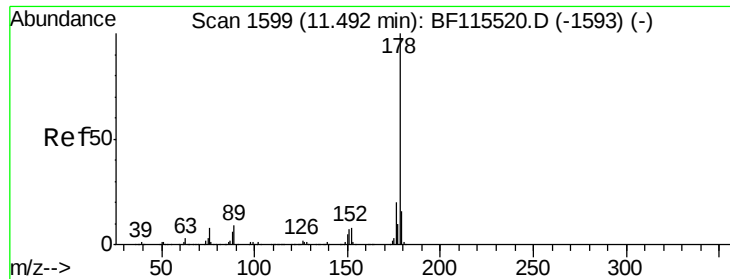


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 6.516 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Instrument :

BNA_F

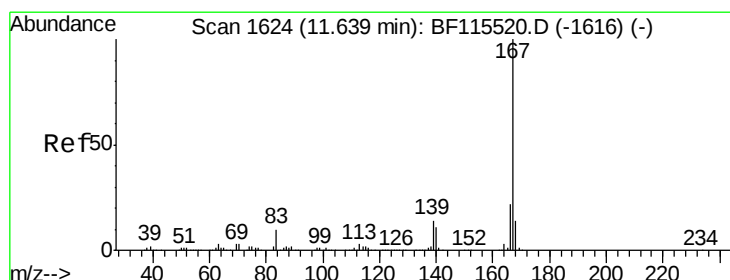
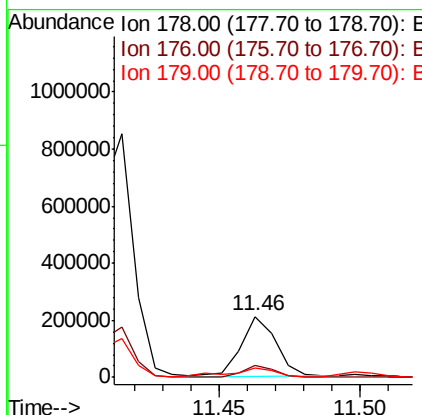
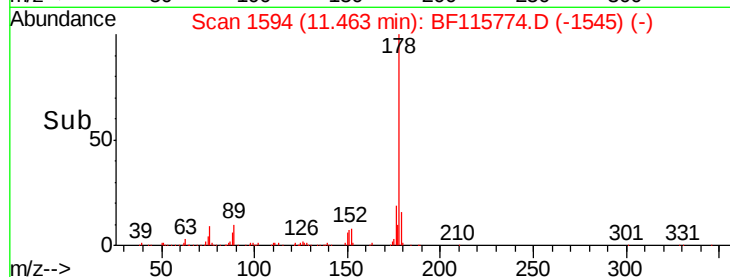
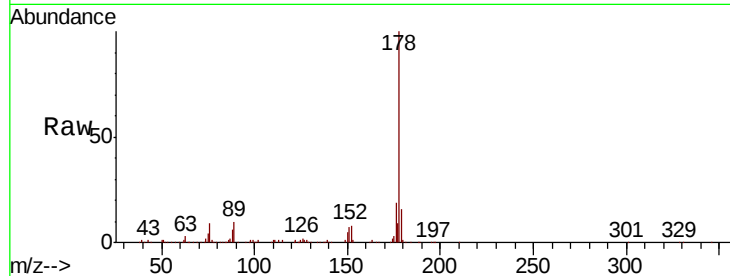
ClientSampled :

SP-1

Tot Ion:	178	Resp:	177232
Ion Ratio	Lower	Upper	
178	100		
176	18.7	16.1	24.1
179	15.6	12.6	18.8

Manual Integrations
APPROVED

mohammad
7/26/2019 3:23:16 PM



#73

Carbazole

Concen: 3.867 ng

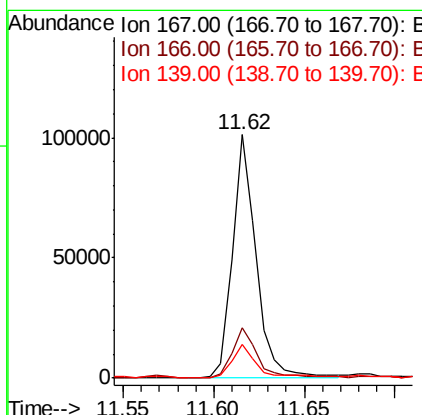
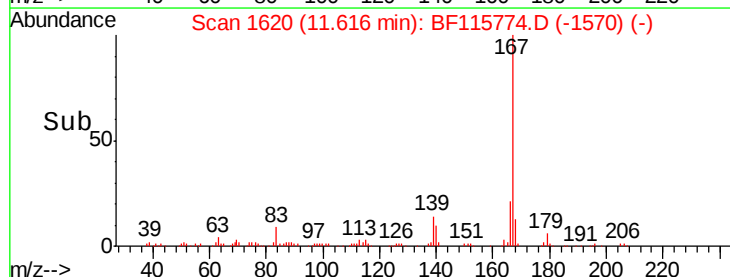
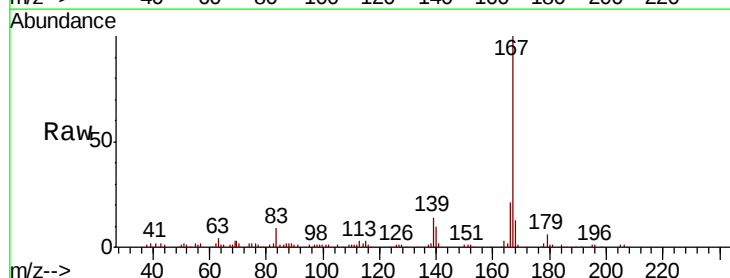
RT: 11.62 min Scan# 1620

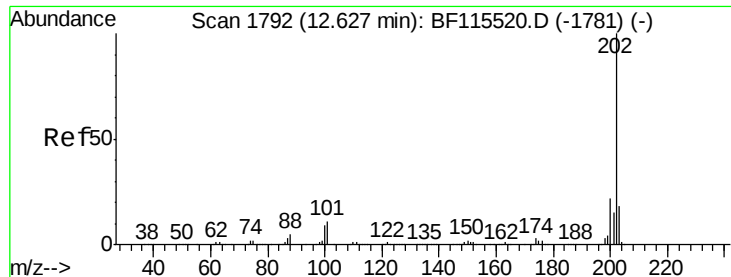
Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Tgt Ion:	167	Resp:	92230
Ion Ratio	Lower	Upper	
167	100		
166	20.8	18.0	27.0
139	13.8	11.1	16.7





#75

Fluoranthene

Concen: 40.275 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Instrument :

BNA_F

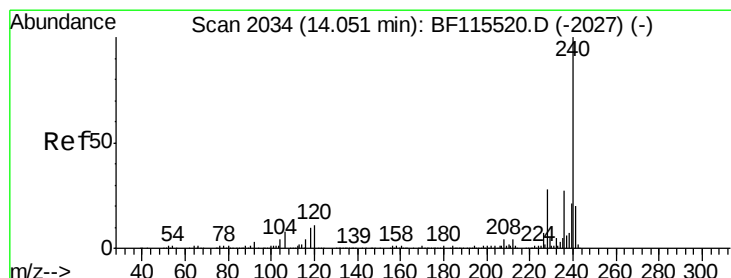
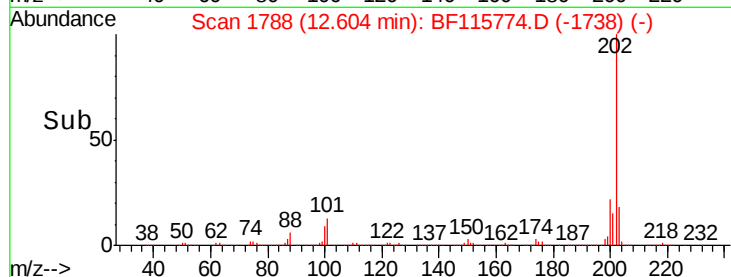
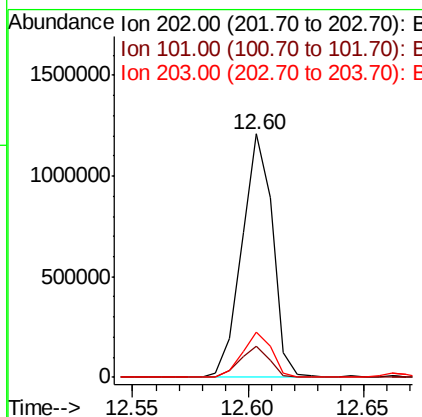
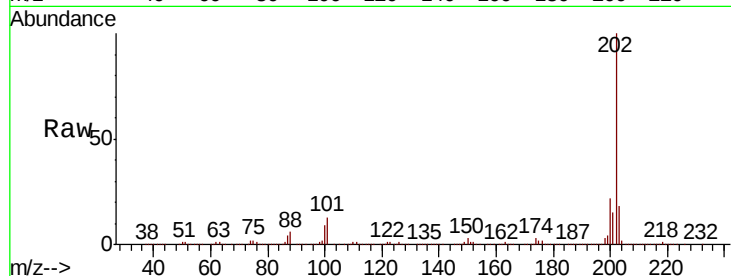
ClientSampleId :

SP-1

Tot Ion:	202	Resp:	1120143
Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	31.6
203	18.5	0.0	38.0

Manual Integrations
APPROVED

mohammad
7/26/2019 3:23:16 PM



#76

Chrysene-d12

Concen: 20.000 ng

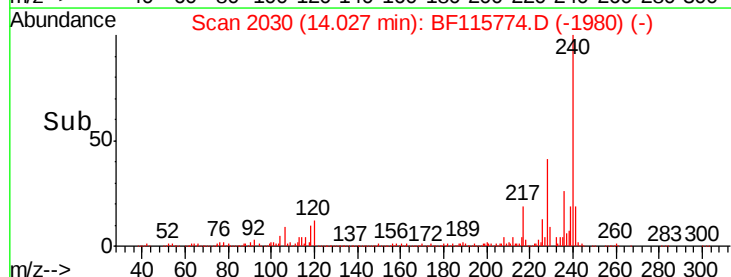
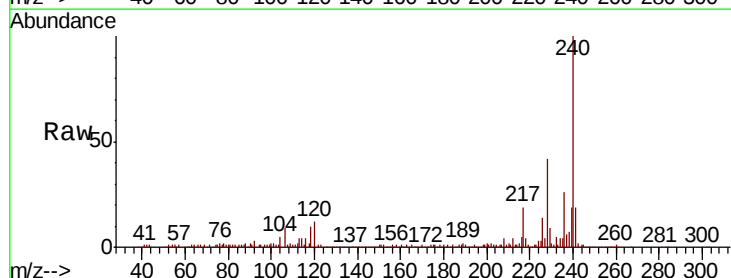
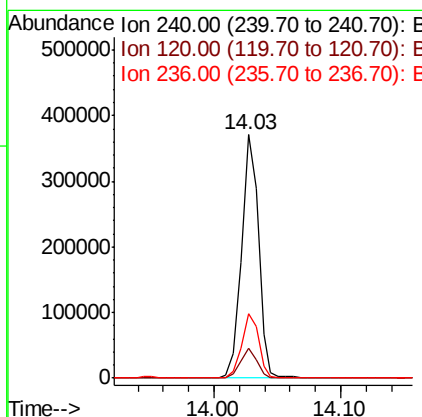
RT: 14.03 min Scan# 2030

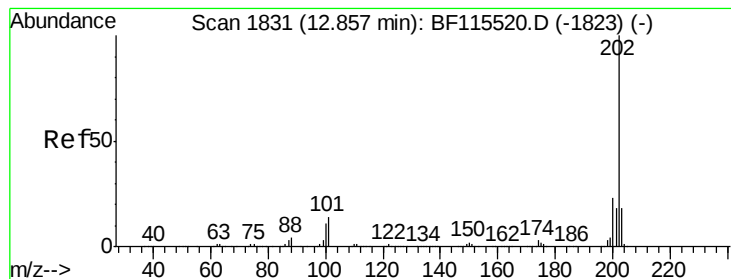
Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Tgt Ion:	240	Resp:	339908
Ion	Ratio	Lower	Upper
240	100		
120	12.2	10.0	15.0
236	26.5	21.8	32.6





#78

Pvrene

Concen: 33.615 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Instrument :

BNA_F

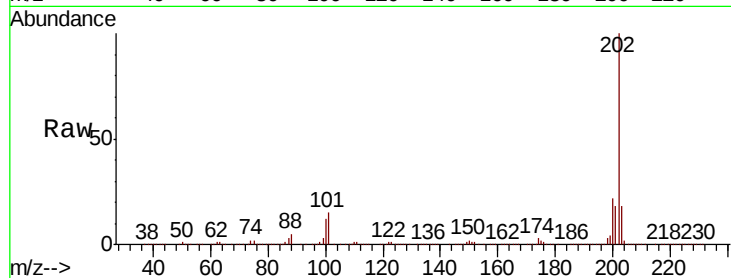
ClientSampled :

SP-1

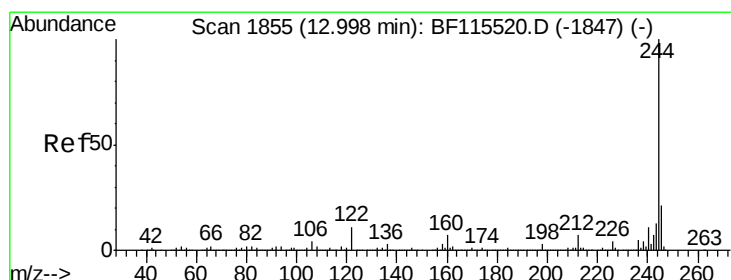
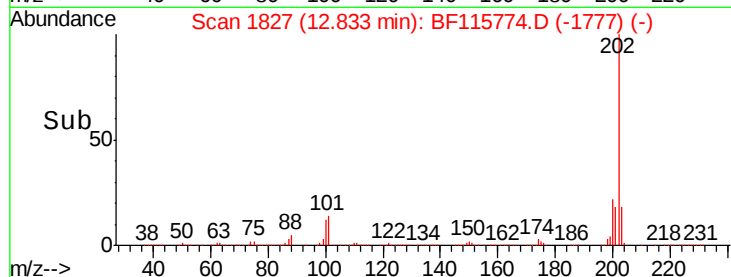
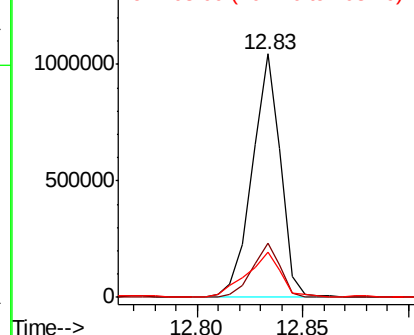
Tot Ion:	202	Resp:	968060
Ion Ratio	Lower	Upper	
202	100		
200	22.4	18.2	27.4
203	18.3	14.6	21.8

Manual Integrations
APPROVED

mohammad
7/26/2019 3:23:16 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 65.507 ng

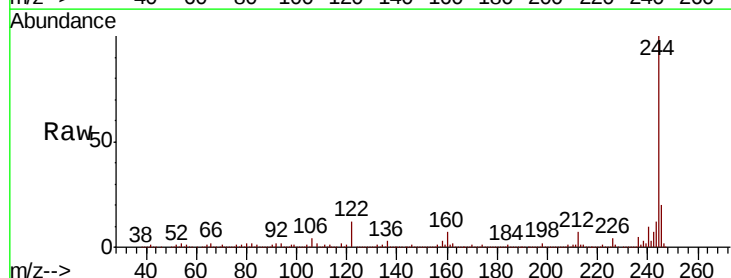
RT: 12.97 min Scan# 1851

Delta R.T. -0.01 min

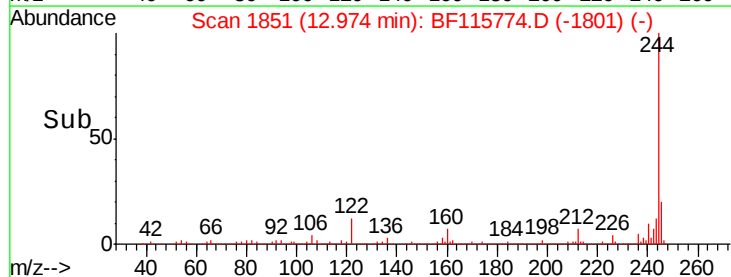
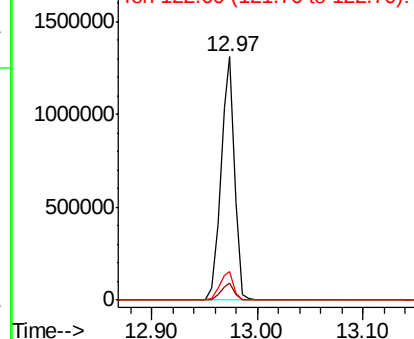
Lab File: BF115774.D

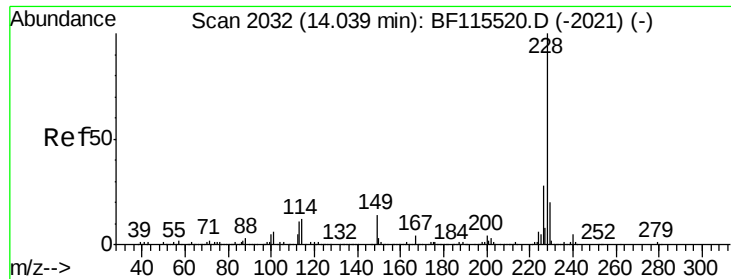
Acq: 25 Jul 2019 22:40

Tgt Ion:	244	Resp:	1206747
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.5	8.3
122	11.5	8.2	12.4



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





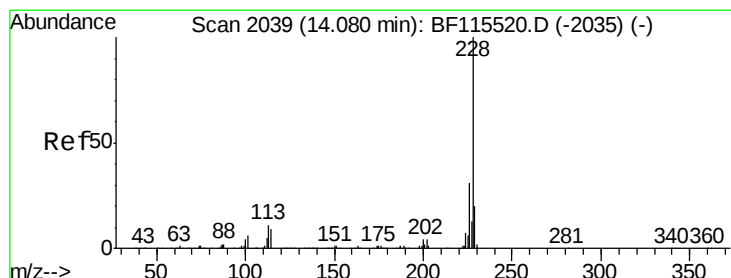
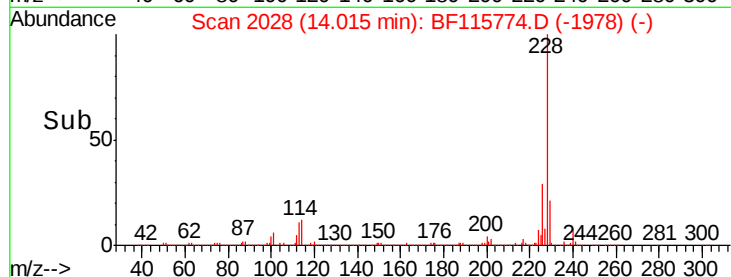
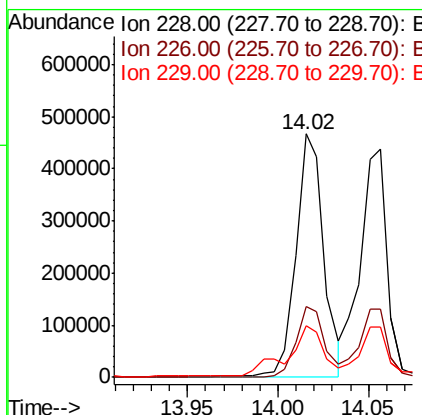
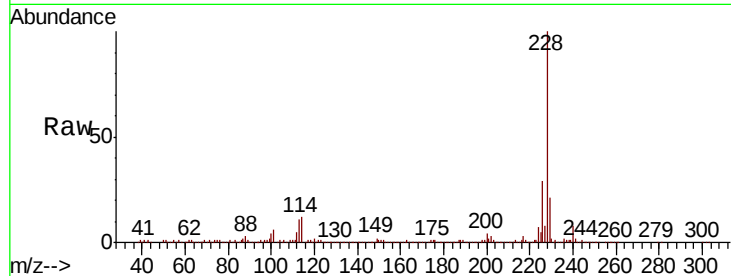
#81
Benzo(a)anthracene
Concen: 22.404 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Instrument :
BNA_F
ClientSampleId :
SP-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.2	33.2
229	21.0	16.1	24.1

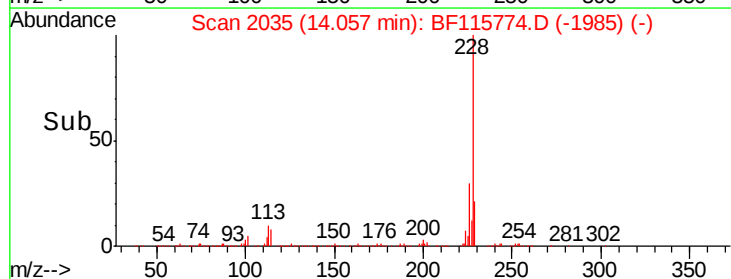
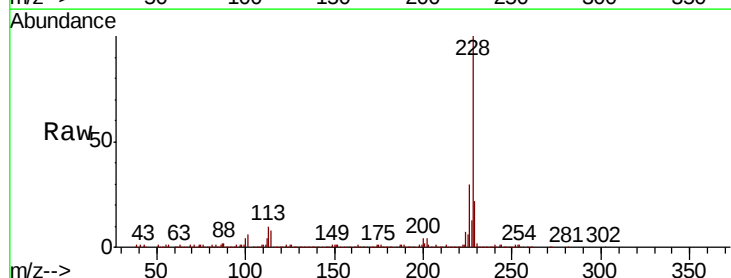
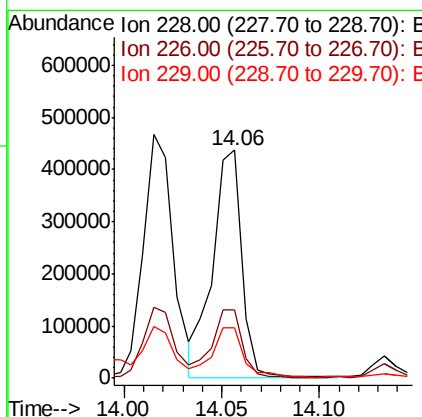
Manual Integrations
APPROVED

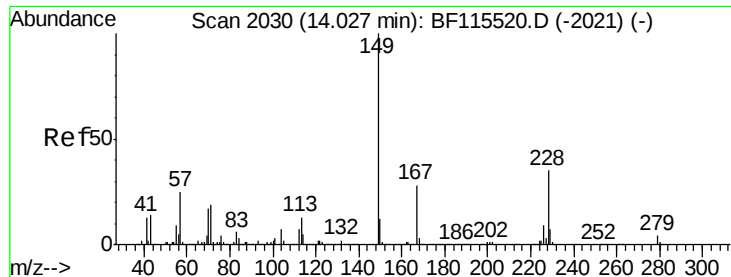
mohammad
7/26/2019 3:23:16 PM



#83
Chrysene
Concen: 20.214 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.01 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.0	37.4
229	22.0	16.2	24.2





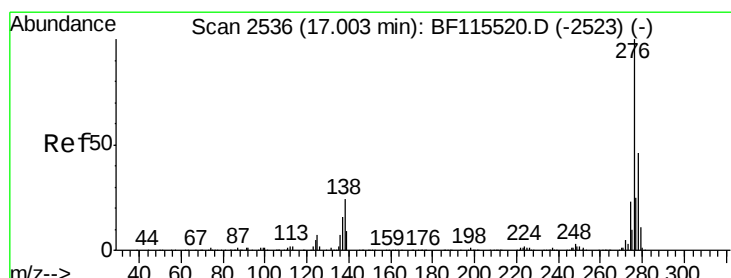
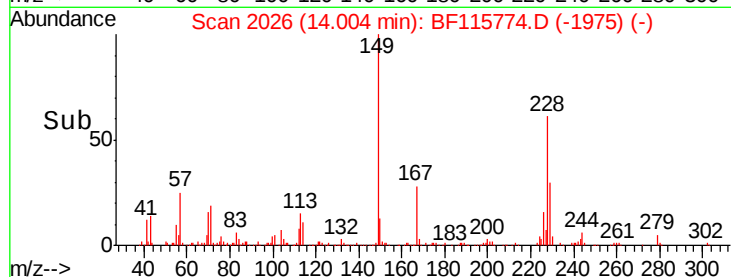
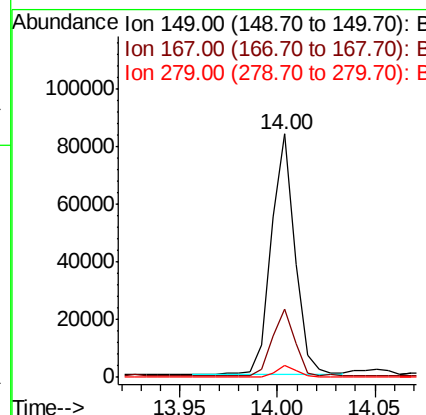
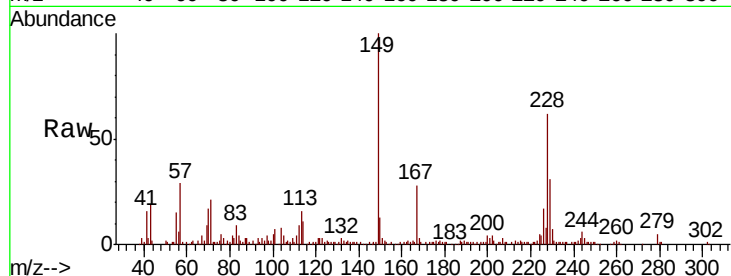
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.602 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.00 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Instrument :
BNA_F
ClientSampled :
SP-1

Tot Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.5	33.7
228	4.8	3.1	4.7

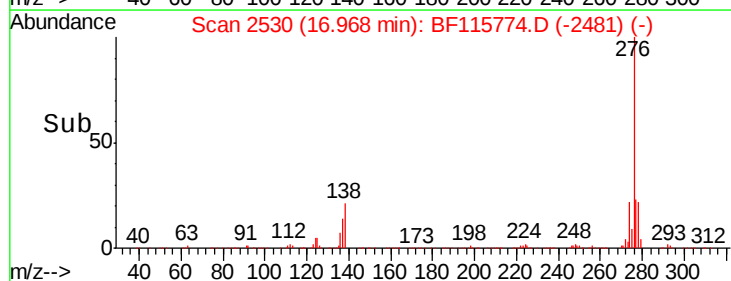
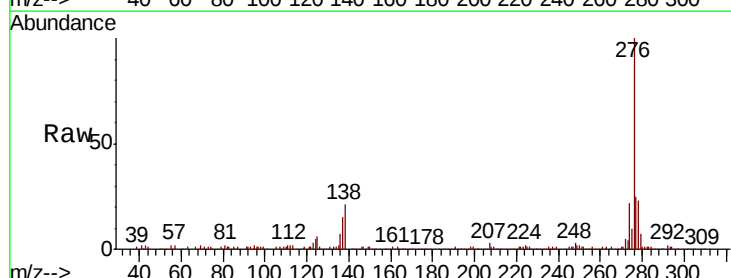
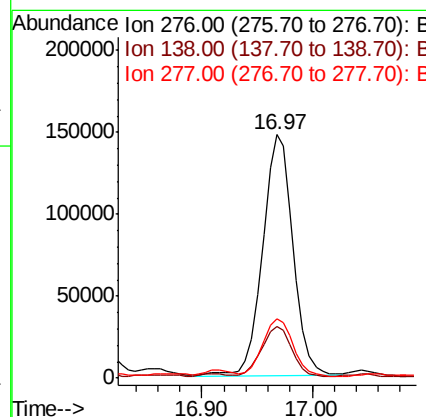
Manual Integrations
APPROVED

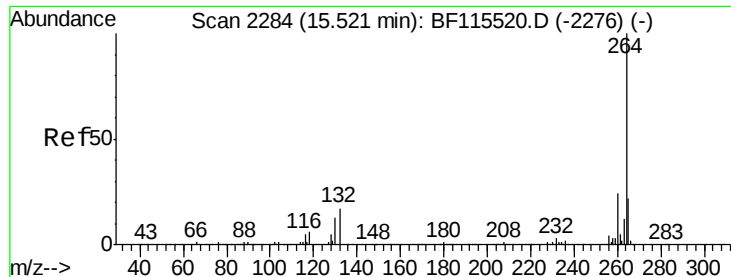
mohammad
7/26/2019 3:23:16 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 14.903 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.7	20.1	30.1
277	23.7	19.8	29.8





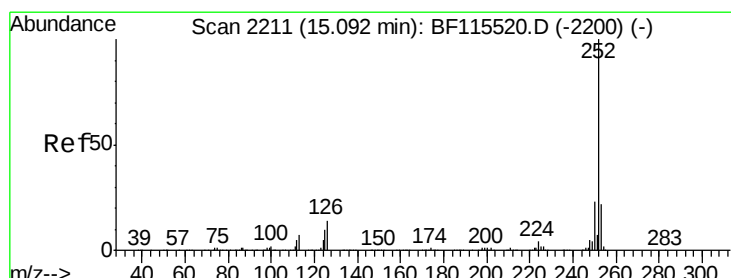
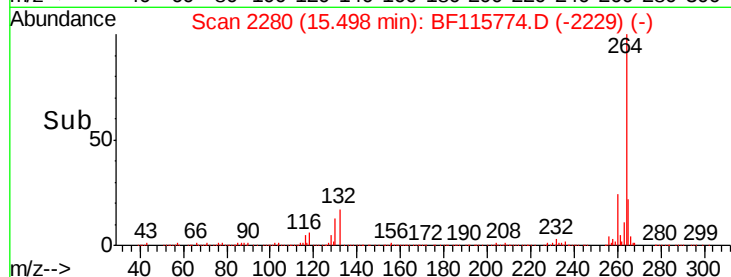
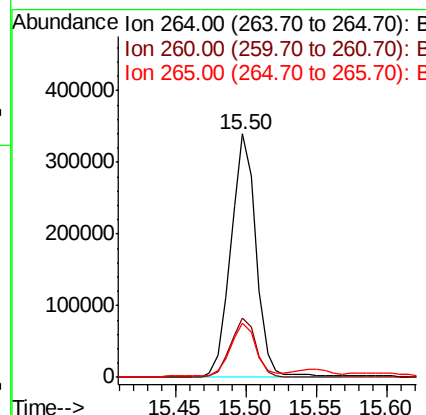
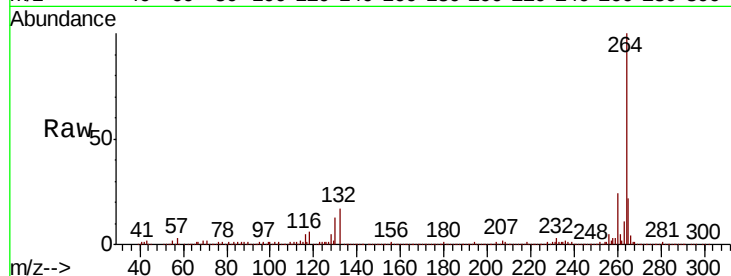
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. -0.00 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Instrument :
BNA_F
ClientSampleId :
SP-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.8	29.6
265	22.3	17.5	26.3

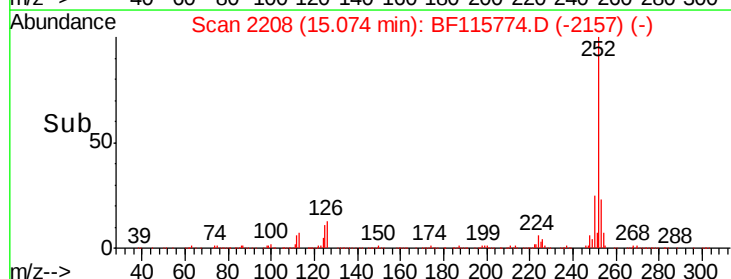
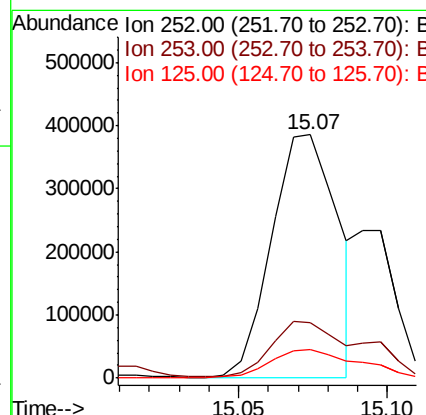
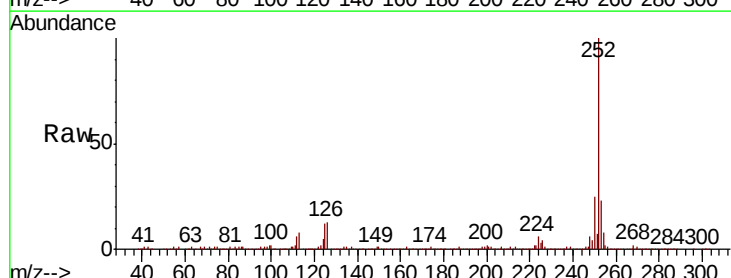
Manual Integrations
APPROVED

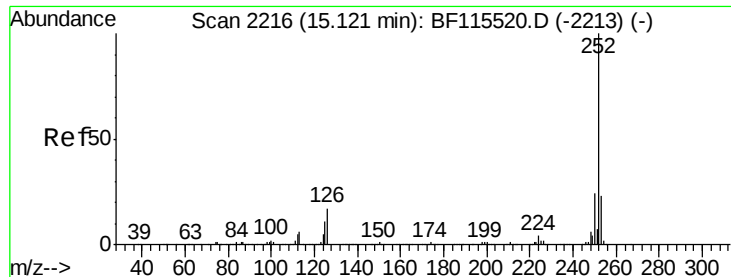
mohammad
7/26/2019 3:23:16 PM



#88
Benzo(b)fluoranthene
Concen: 22.146 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.00 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	11.7	8.4	12.6





#89

Benzo(k)fluoranthene

Concen: 9.121 ng/mL

RT: 15.09 min Scan# 2211

Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Instrument :

BNA_F

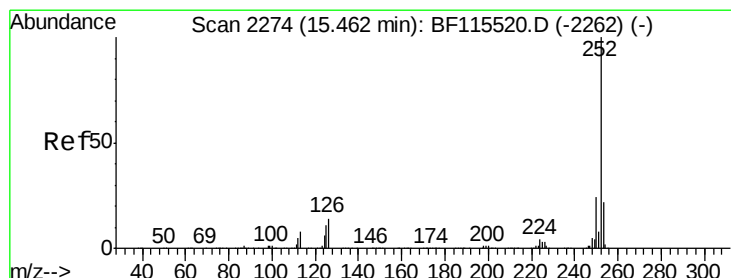
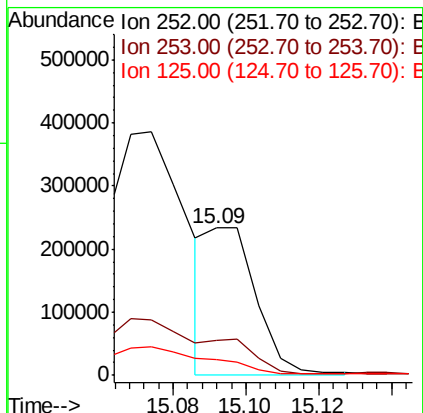
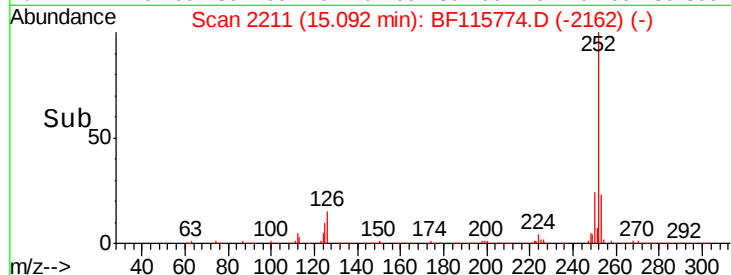
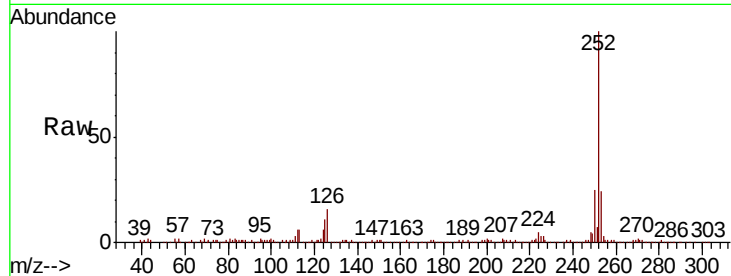
ClientSampled :

SP-1

Tot Ion:	252	Resp:	218637
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.1	27.1
125	11.1	8.6	13.0

Manual Integrations
APPROVED

mohammad
7/26/2019 3:23:16 PM



#90

Benzo(a)pyrene

Concen: 18.516 ng/mL

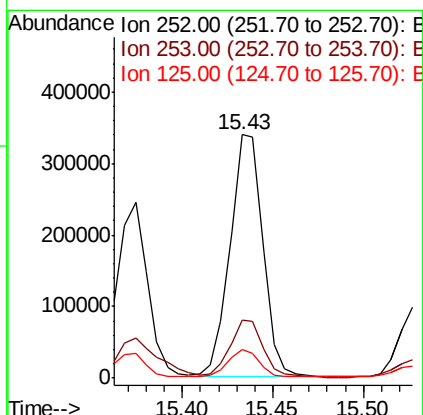
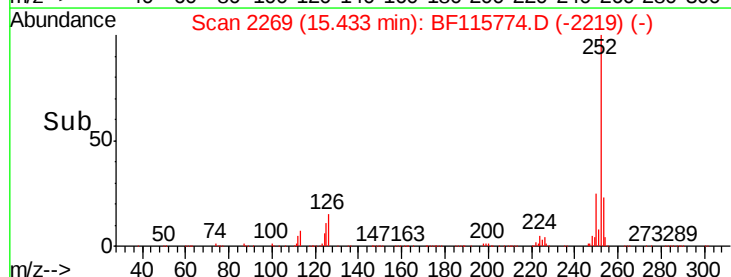
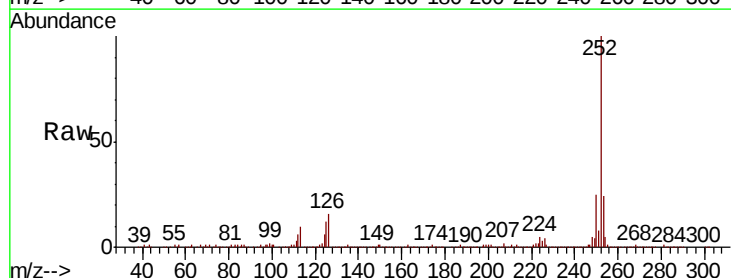
RT: 15.43 min Scan# 2269

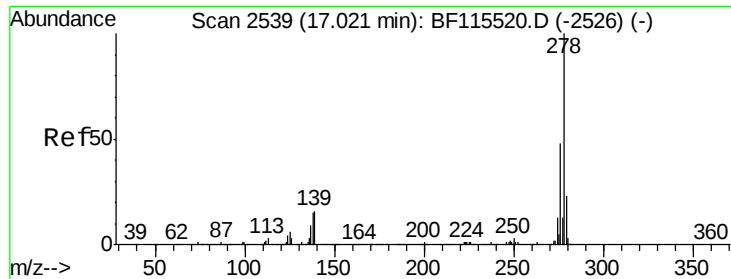
Delta R.T. -0.01 min

Lab File: BF115774.D

Acq: 25 Jul 2019 22:40

Tgt Ion:	252	Resp:	427868
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.3	25.9
125	11.8	9.4	14.2





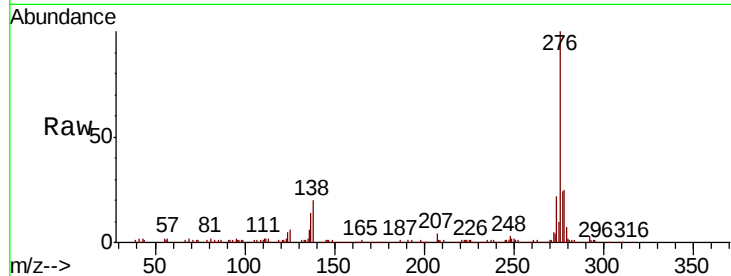
#91
Dibenzo(a,h)anthracene
Concen: 3.751 ng m
RT: 16.97 min Scan# 2531
Delta R.T. -0.02 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Instrument :
BNA_F
ClientSampleId :
SP-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.6	20.4#
279	28.0	19.6	29.4

Manual Integrations
APPROVED

mohammad
7/26/2019 3:23:16 PM

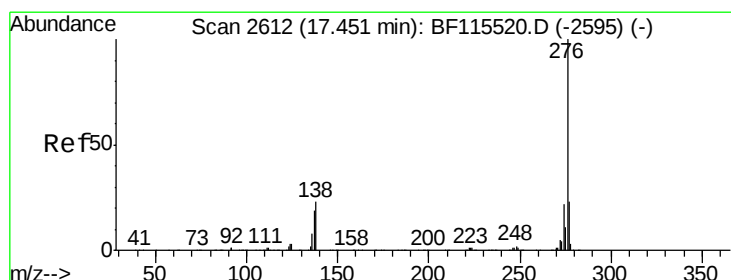
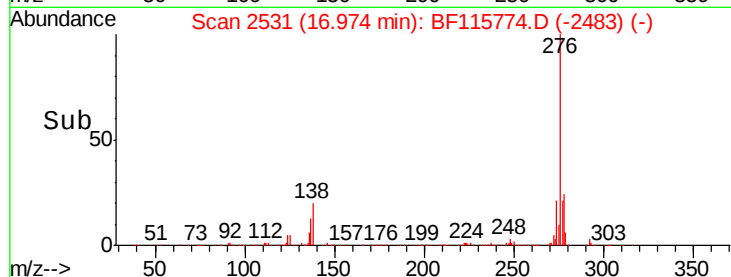
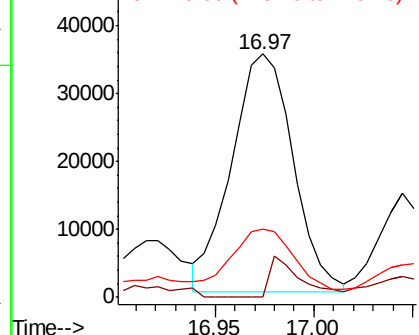


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 12.584 ng
RT: 17.42 min Scan# 2606
Delta R.T. -0.01 min
Lab File: BF115774.D
Acq: 25 Jul 2019 22:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.1	27.1
138	20.8	16.6	24.8

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

