

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
 Data File : BF117234.D
 Acq On : 24 Sep 2019 23:40
 Operator : JU
 Sample : K4668-12 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-092319

Manual Integrations
 APPROVED

mohammad
 9/26/2019 8:24:31 AM

Quant Time: Sep 25 08:06:03 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	26769	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	111505	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	56440	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	84141	20.00	ng	0.00
76) Chrysene-d12	13.98	240	68509	20.00	ng	0.00
87) Perylene-d12	15.43	264	63111	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	78850	45.99	ng	0.00
7) Phenol-d6	6.45	99	108555	48.99	ng	0.00
23) Nitrobenzene-d5	7.37	82	69436	32.72	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	21004	44.53	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	129338	35.83	ng	0.00
79) Terphenyl-d14	12.92	244	111998	30.56	ng	0.00
Target Compounds						
31) Naphthalene	8.12	128	42085	7.848	ng	99
37) 2-Methylnaphthalene	8.81	142	21096	5.842	ng	96
38) 1-Methylnaphthalene	8.91	142	17413	5.148	ng	99
50) Dimethylphthalate	9.56	163	12385	3.099	ng	98
52) Acenaphthene	9.88	154	41991	13.534	ng	96
55) Dibenzofuran	10.05	168	64084	13.999	ng	97
58) Fluorene	10.40	166	91668	24.858	ng	97
71) Phenanthrene	11.36	178	515898	107.947	ng	100
72) Anthracene	11.41	178	169803	34.802	ng	99
73) Carbazole	11.57	167	50819	10.973	ng	99
75) Fluoranthene	12.56	202	435928	88.773	ng	99
78) Pyrene	12.79	202	348699	60.660	ng	98
81) Benzo(a)anthracene	13.97	228	181977	39.757	ng	97
83) Chrysene	14.00	228	136110	30.489	ng	98
86) Indeno(1,2,3-cd)pyrene	16.89	276	40312	12.377	ng	98
88) Benzo(b)fluoranthene	15.02	252	146042m	38.202	ng	
89) Benzo(k)fluoranthene	15.04	252	41009m	11.324	ng	
90) Benzo(a)pyrene	15.37	252	97111	28.948	ng	96
91) Dibenzo(a,h)anthracene	16.89	278	13432m	5.026	ng	
92) Benzo(a,h,i)perylene	17.33	276	35305	13.257	ng	95

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

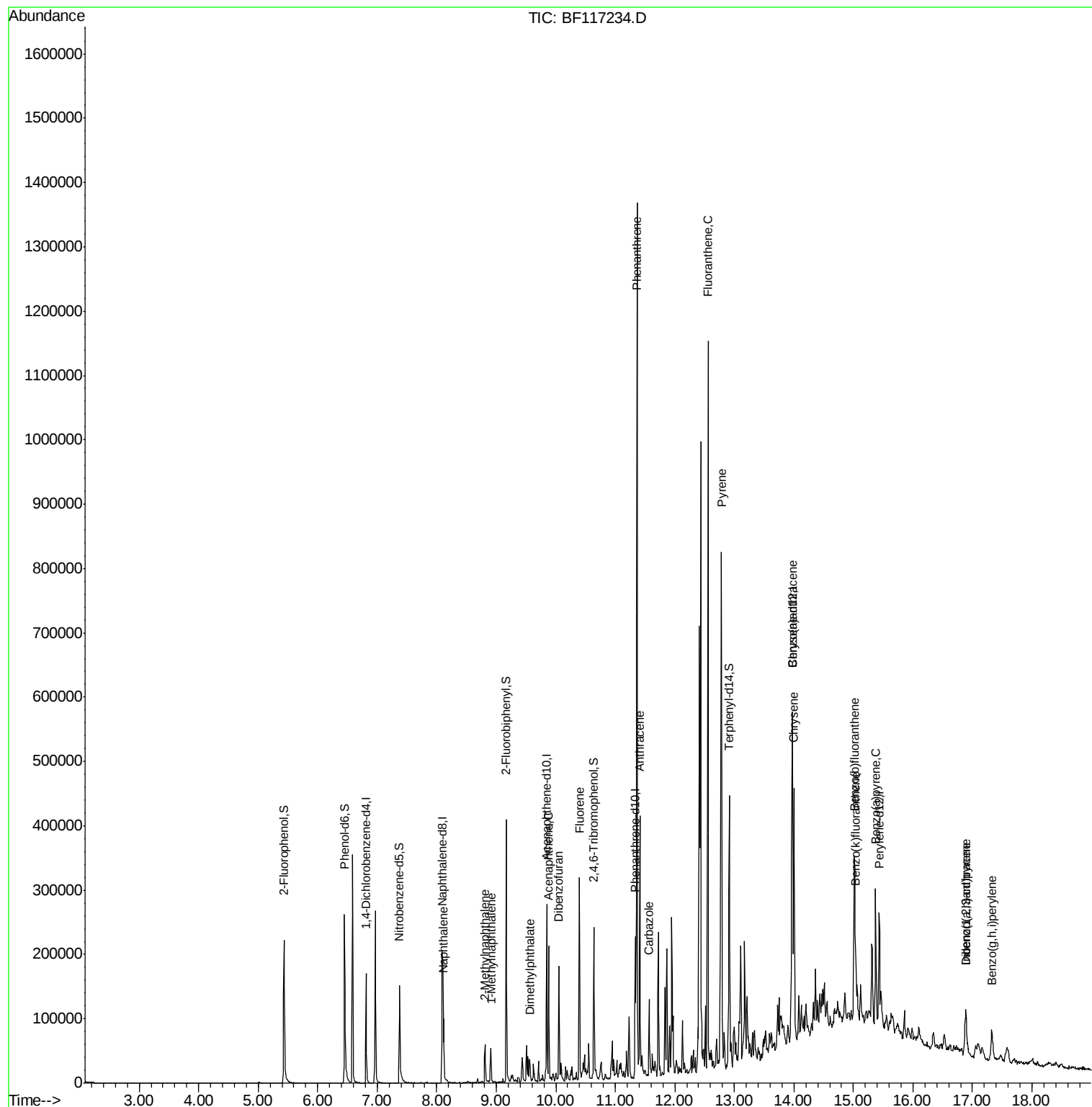
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
Operator : JU
Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

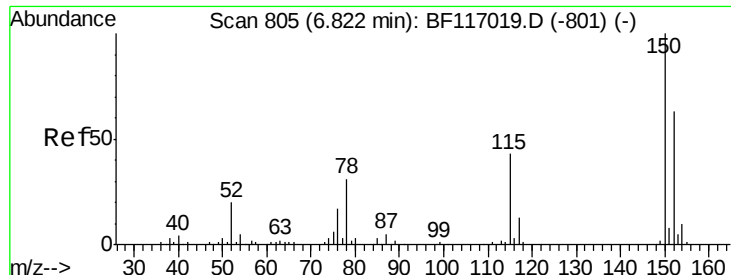
Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM

Quant Time: Sep 25 08:06:03 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 13 16:23:17 2019
Response via : Initial Calibration





#1

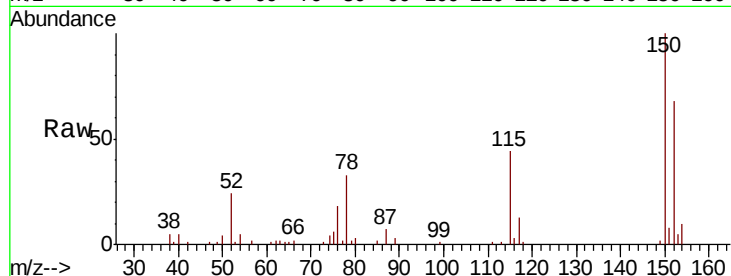
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Tot Ion	Ratio	Lower	Upper
152	100		
150	146.5	127.5	191.3
115	63.8	55.0	82.4

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM

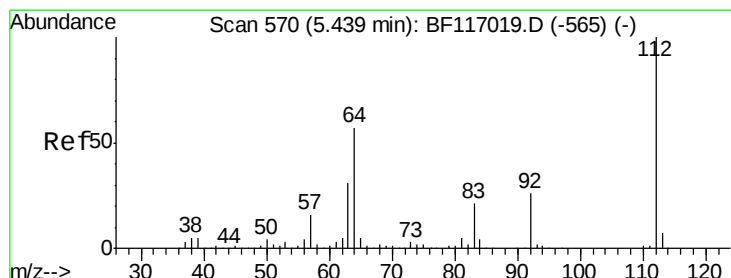
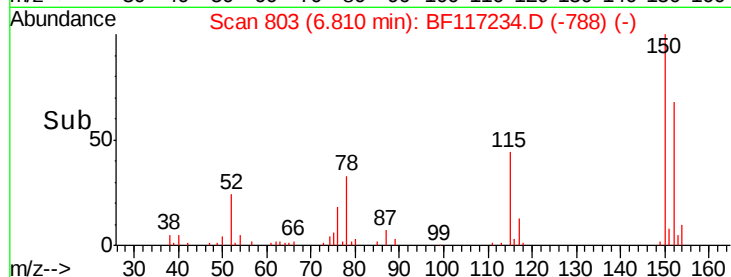
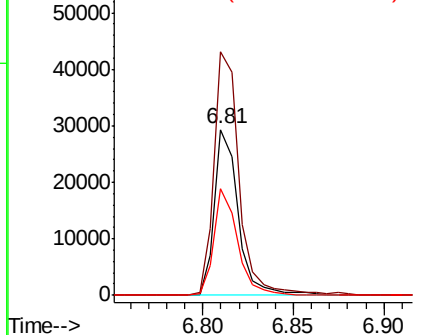


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

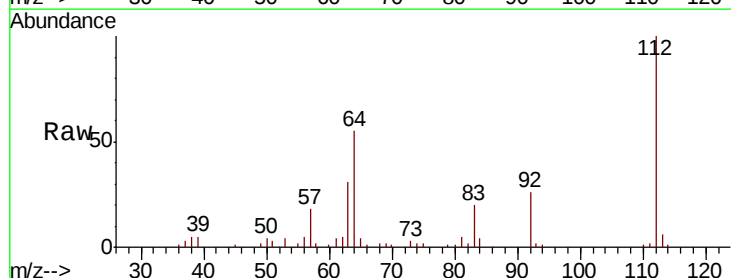
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 45.988 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	45.7	68.5
63	30.8	24.9	37.3

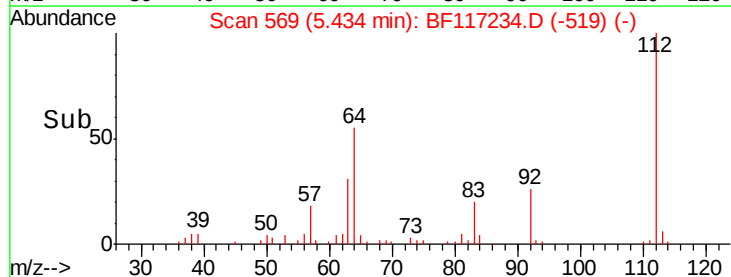
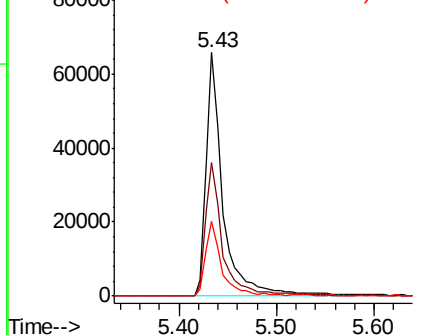


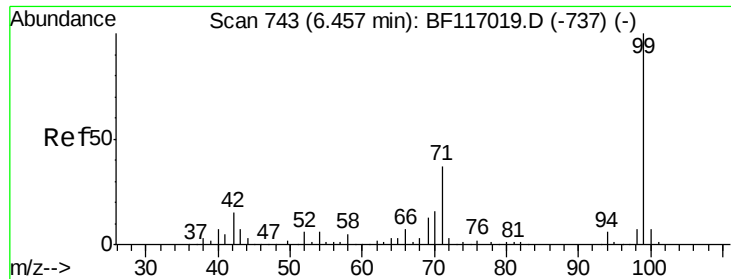
Abundance

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: 48.990 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117234.D

Acq: 24 Sep 2019 23:40

Instrument :

BNA_F

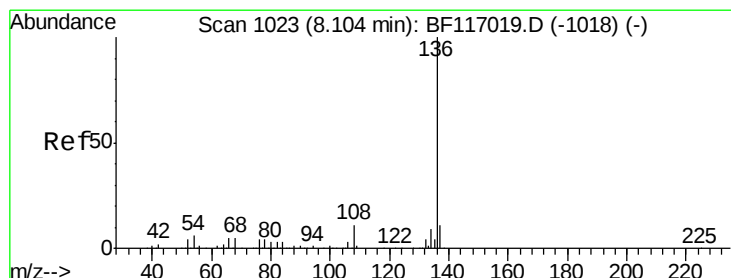
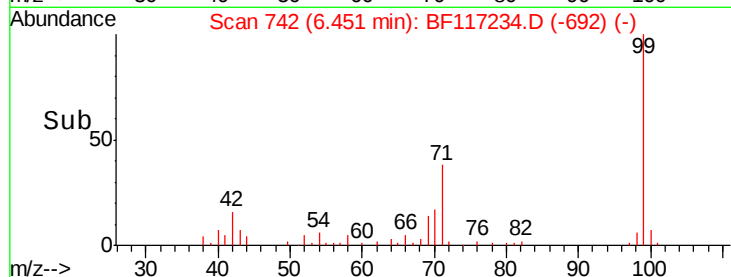
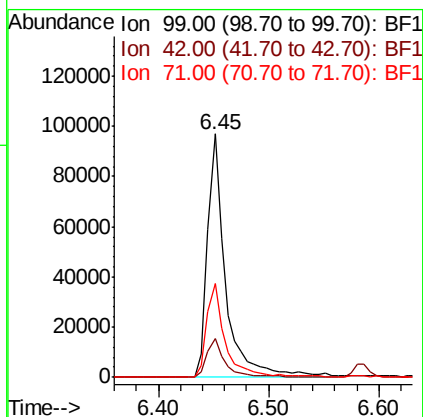
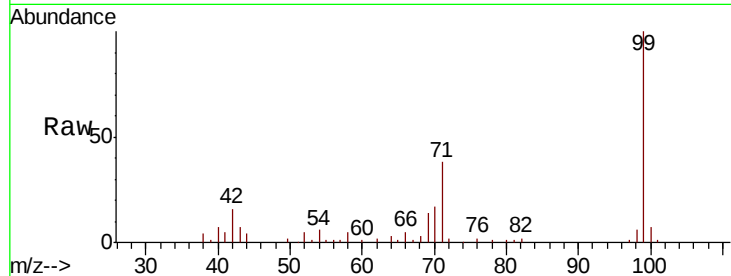
ClientSampleId :

SU-03-092319

Tot Ion:	99	Resp:	108555
Ion	Ratio	Lower	Upper
99	100		
42	16.0	12.2	18.2
71	38.4	29.8	44.8

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM



#21

Naphthalene-d8

Concen: 20.000 ng

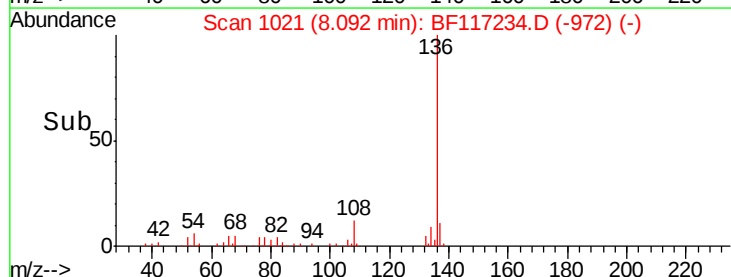
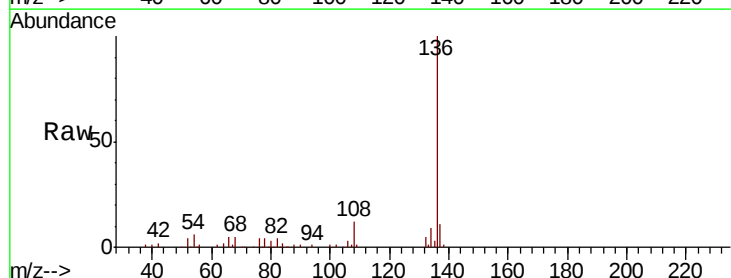
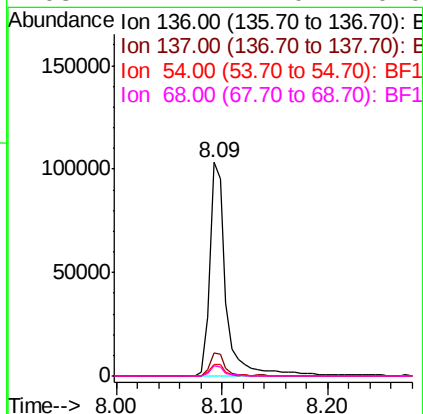
RT: 8.09 min Scan# 1021

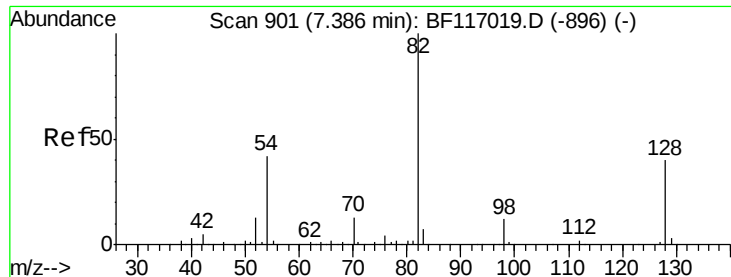
Delta R.T. -0.01 min

Lab File: BF117234.D

Acq: 24 Sep 2019 23:40

Tgt Ion:	136	Resp:	111505
Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.0	13.4
54	5.6	4.5	6.7
68	4.7	4.0	6.0





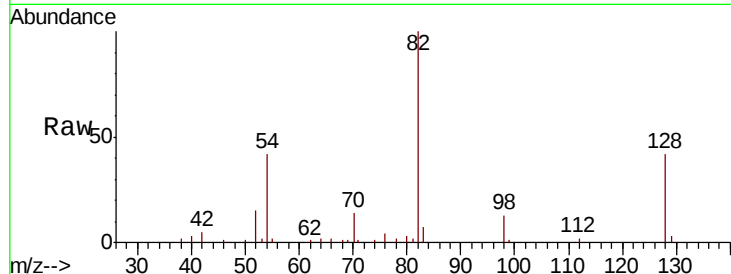
#23
Nitrobenzene-d5
Concen: 32.719 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

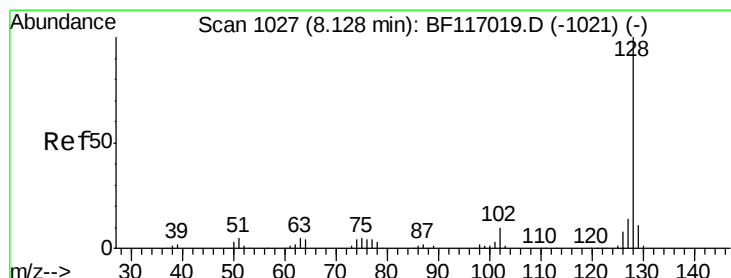
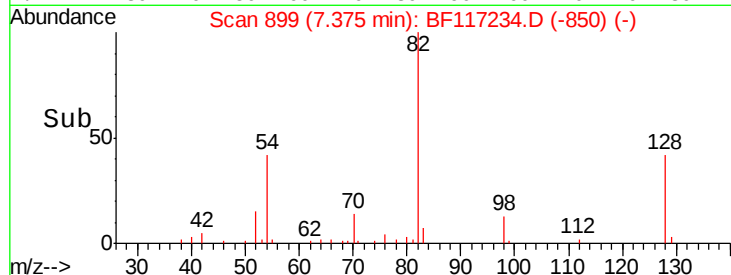
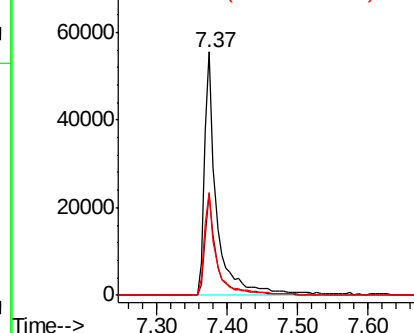
Tot Ion	82	Resp	69436
Ion Ratio	100	Lower	Upper
128	41.7	32.3	48.5
54	42.3	33.3	49.9

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM



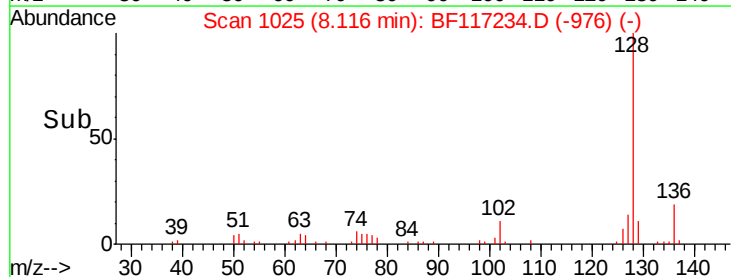
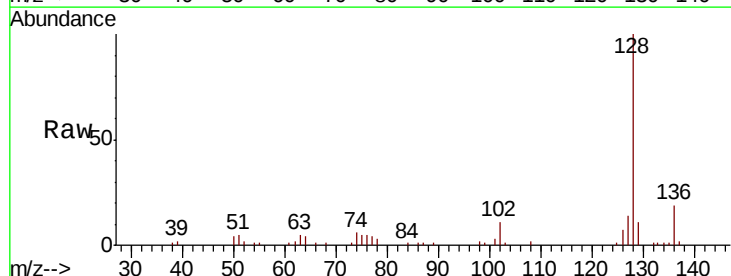
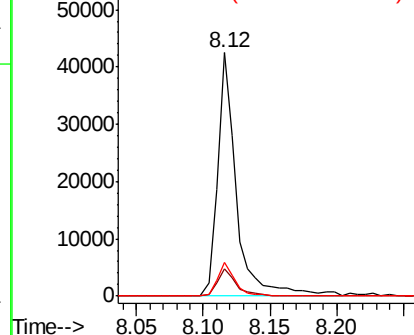
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

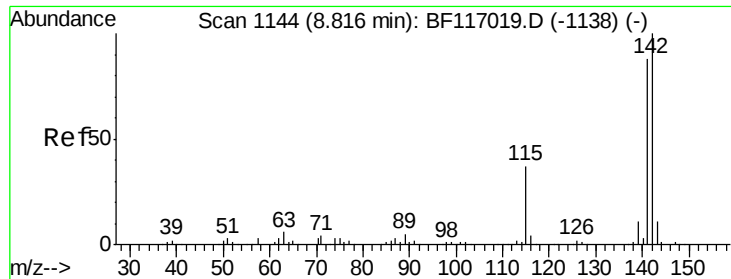


#31
Naphthalene
Concen: 7.848 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	128	Resp	42085
Ion Ratio	100	Lower	Upper
129	11.3	9.0	13.4
127	13.9	10.8	16.2

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





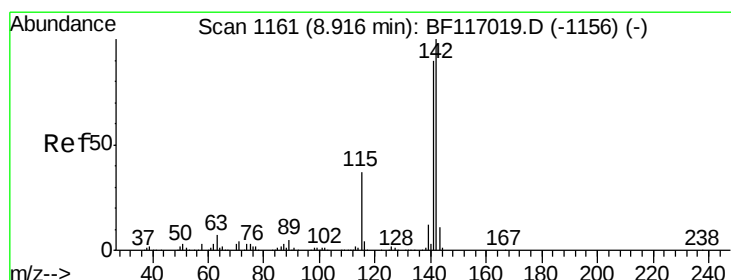
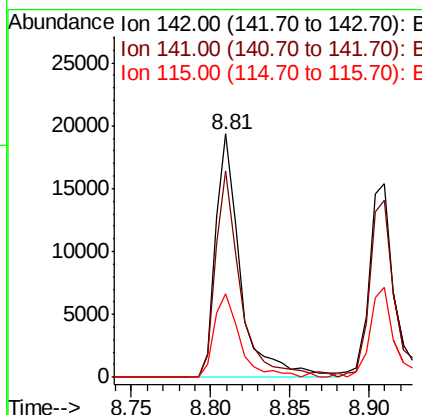
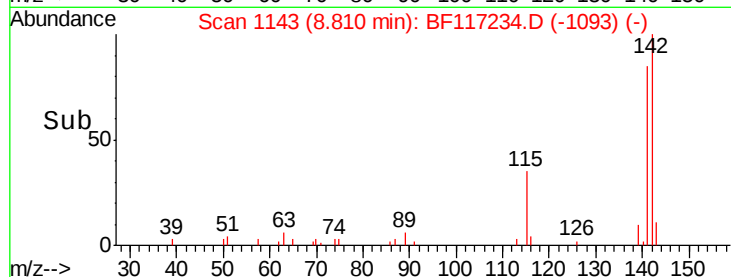
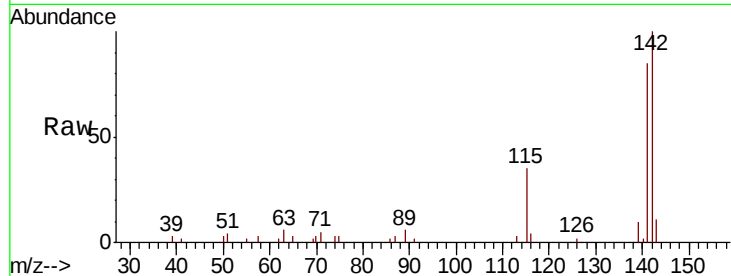
#37
2-Methylnaphthalene
Concen: 5.842 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampled :
SU-03-092319

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.9	70.7	106.1
115	34.5	29.4	44.0

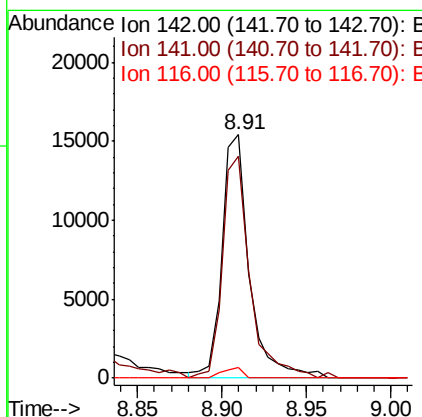
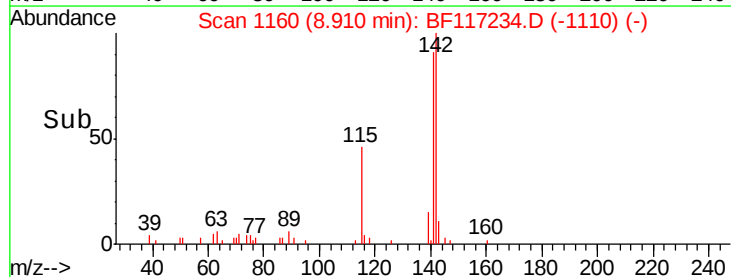
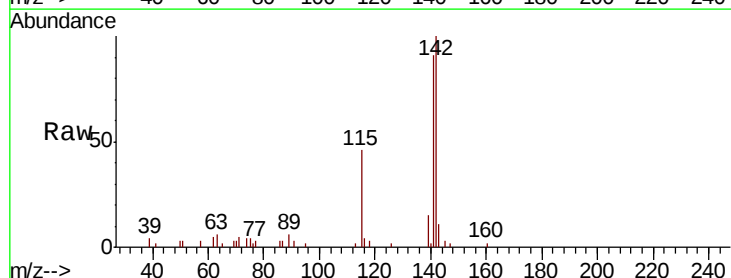
Manual Integrations
APPROVED

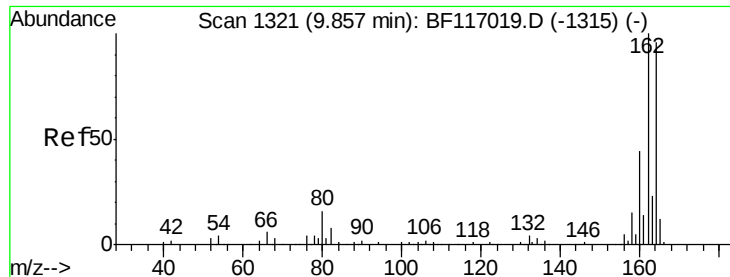
mohammad
9/26/2019 8:24:31 AM



#38
1-Methylnaphthalene
Concen: 5.148 ng
RT: 8.91 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.9	107.9
116	4.4	3.2	4.8





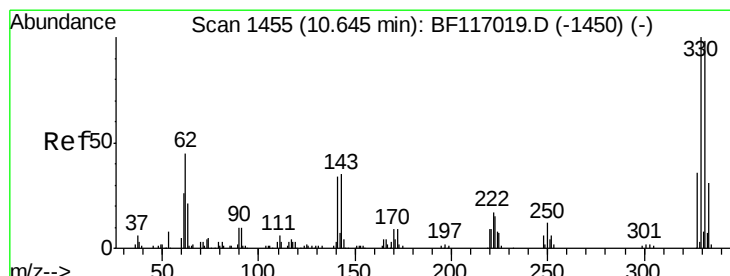
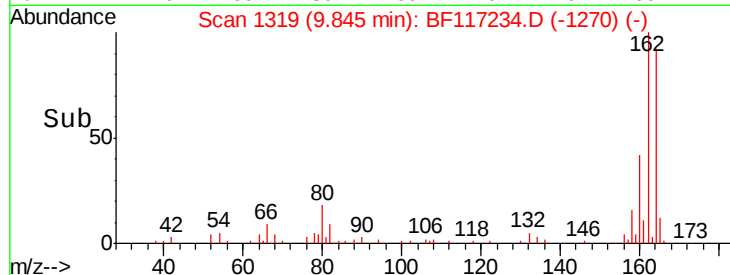
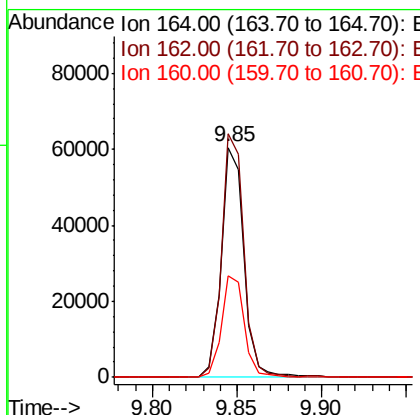
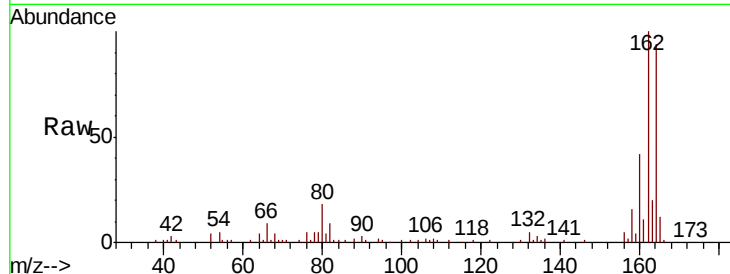
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	106.1	83.4	125.2	
160	44.5	36.4	54.6	

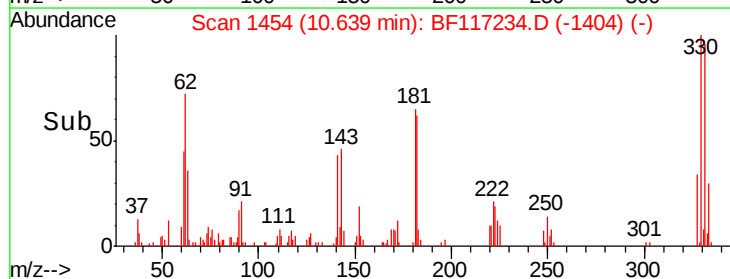
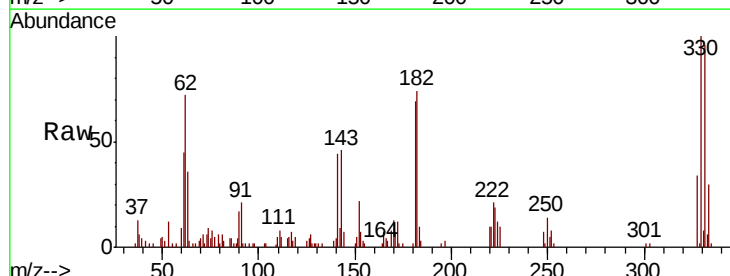
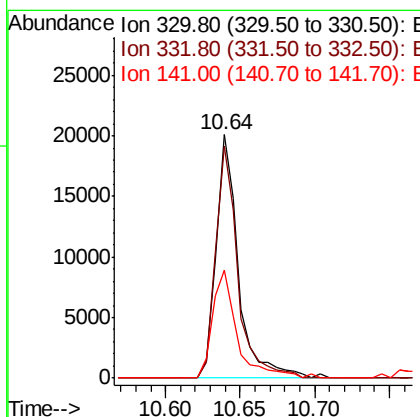
Manual Integrations
APPROVED

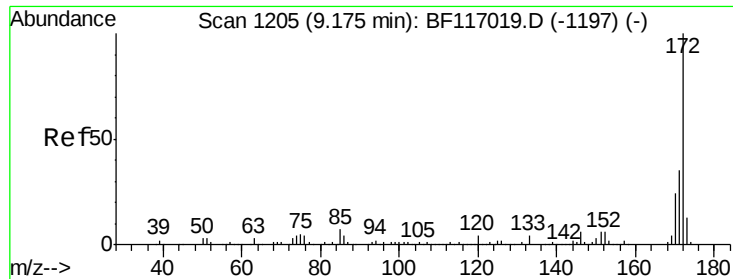
mohammad
9/26/2019 8:24:31 AM



#42
2,4,6-Tribromophenol
Concen: 44.527 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.9	78.0	117.0	
141	48.4	35.8	53.6	





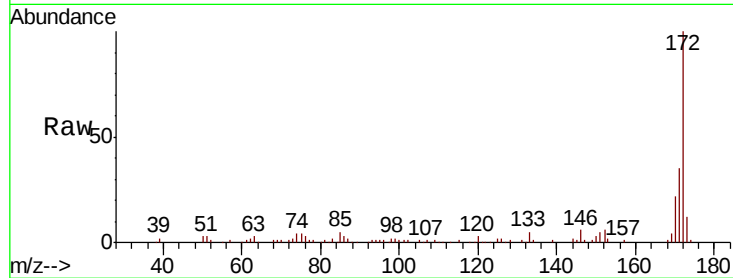
#45
2-Fluorobiphenyl
Concen: 35.831 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

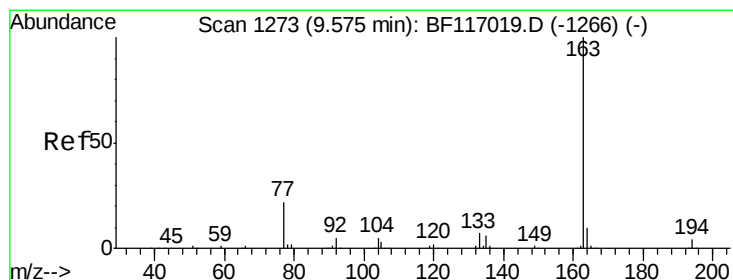
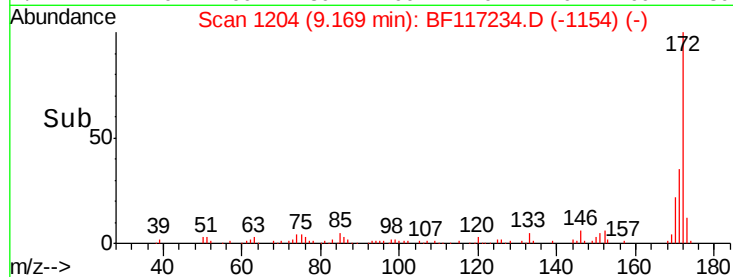
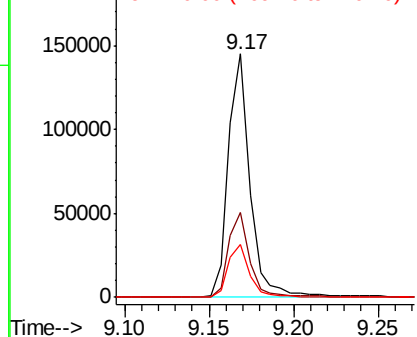
Tot Ion:	172	Resp:	129338
Ion Ratio	Lower	Upper	
172	100		
171	35.1	28.2	42.2
170	21.9	18.9	28.3

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM

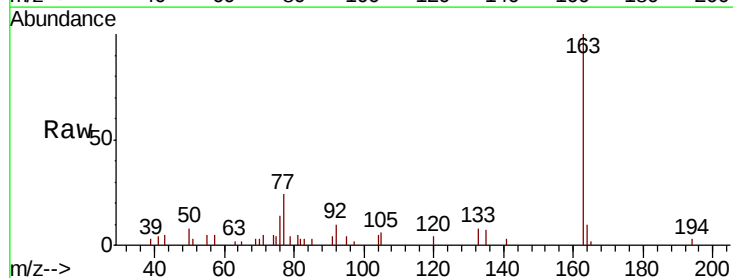


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

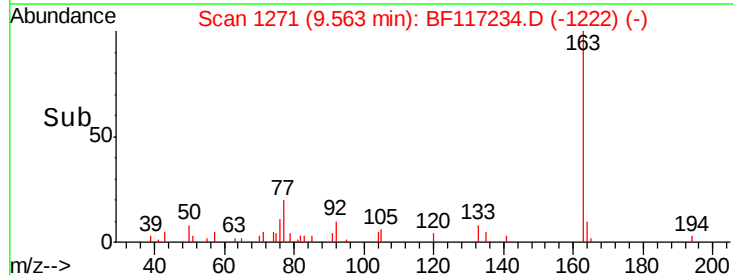
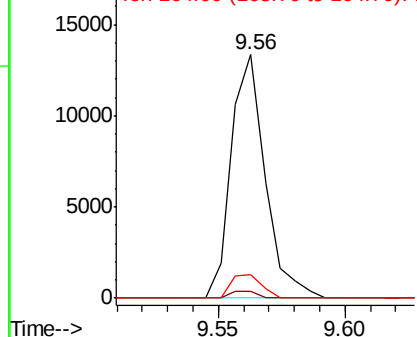


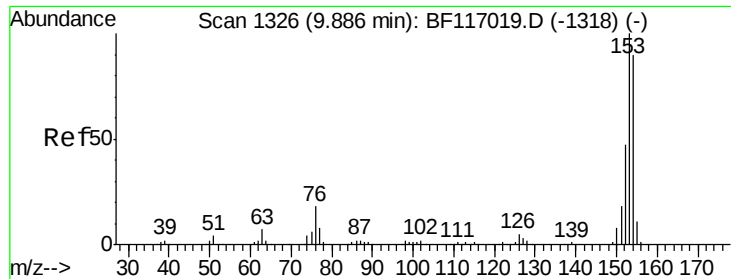
#50
Dimethylphthalate
Concen: 3.099 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion:	163	Resp:	12385
Ion Ratio	Lower	Upper	
163	100		
194	2.9	2.9	4.3
164	9.5	8.2	12.4



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 13.534 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF117234.D

Acq: 24 Sep 2019 23:40

Instrument :

BNA_F

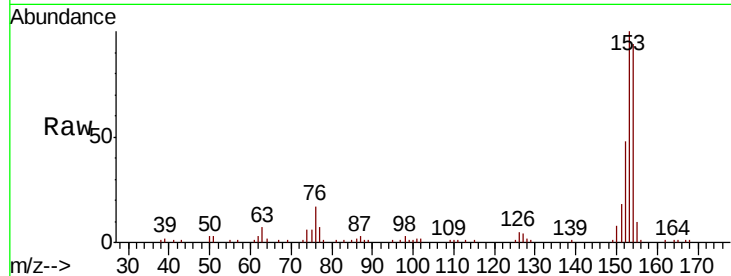
ClientSampleId :

SU-03-092319

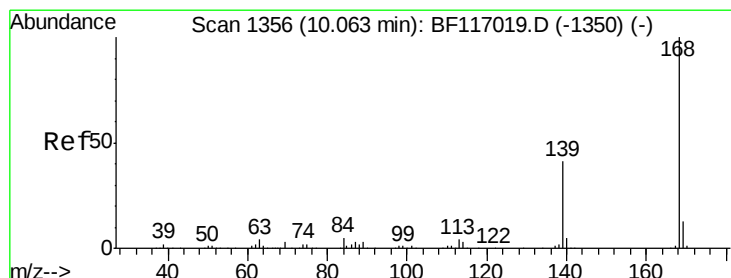
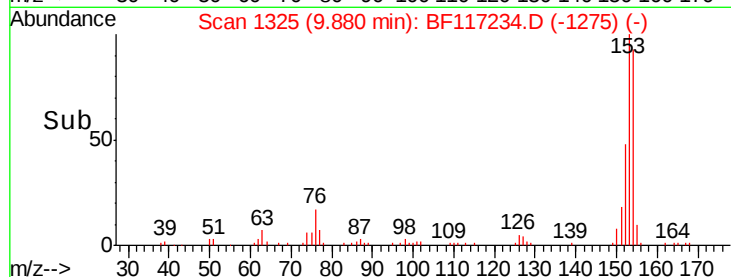
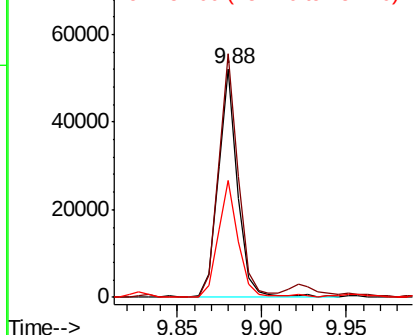
Tot Ion:	154	Resp:	41991
Ion Ratio	Lower	Upper	
154	100		
153	106.6	89.0	133.6
152	51.2	41.9	62.9

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 13.999 ng

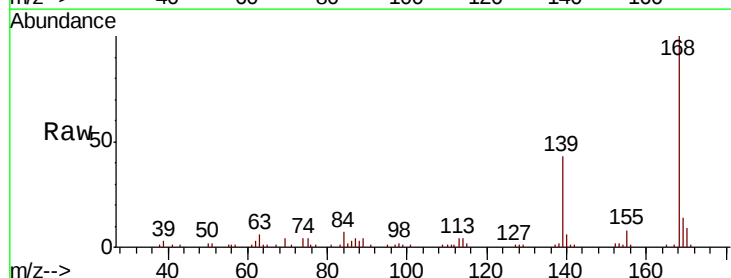
RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

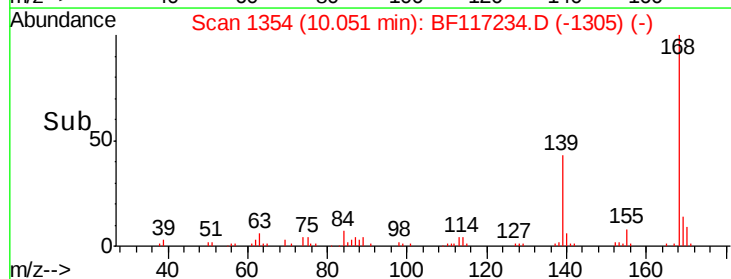
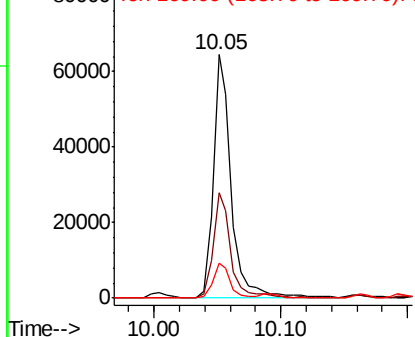
Lab File: BF117234.D

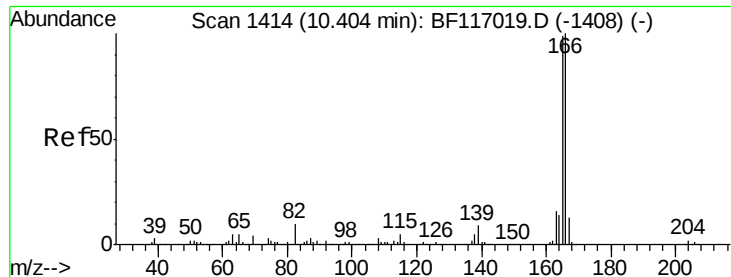
Acq: 24 Sep 2019 23:40

Tgt Ion:	168	Resp:	64084
Ion Ratio	Lower	Upper	
168	100		
139	43.1	32.8	49.2
169	14.3	10.5	15.7



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





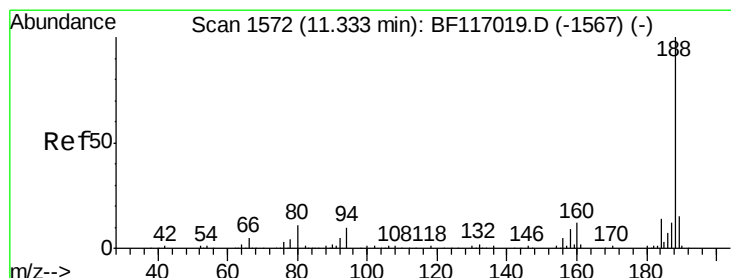
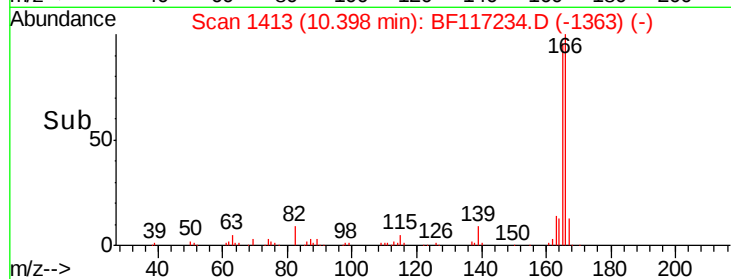
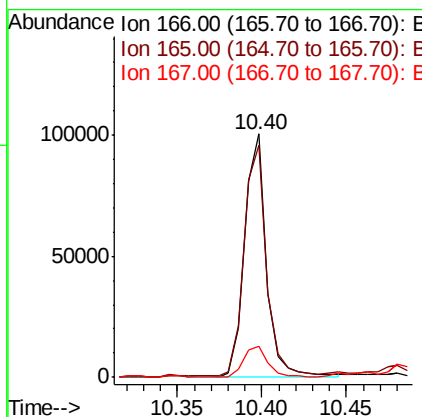
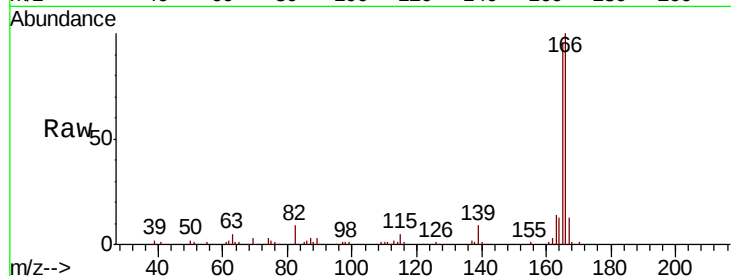
#58
 Fluorene
 Concen: 24.858 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.01 min
 Lab File: BF117234.D
 Acq: 24 Sep 2019 23:40

Instrument :
 BNA_F
 ClientSampled :
 SU-03-092319

Tot Ion	Ratio	Lower	Upper
166	100		
165	95.5	78.9	118.3
167	12.9	10.6	15.8

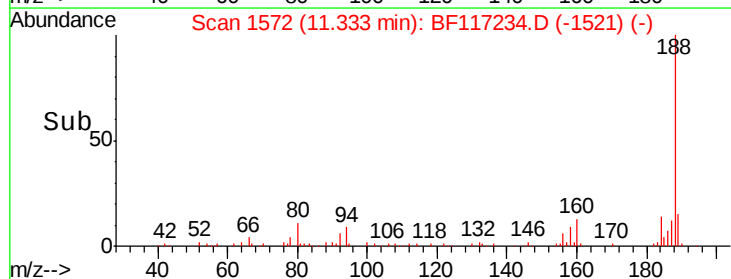
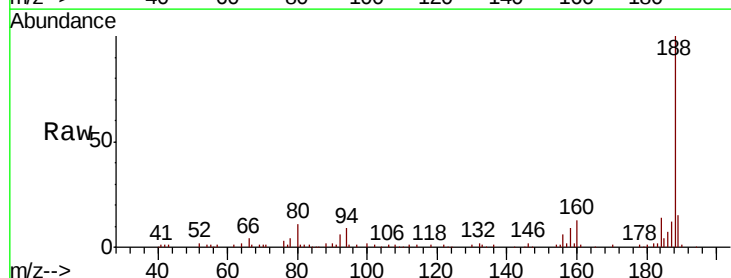
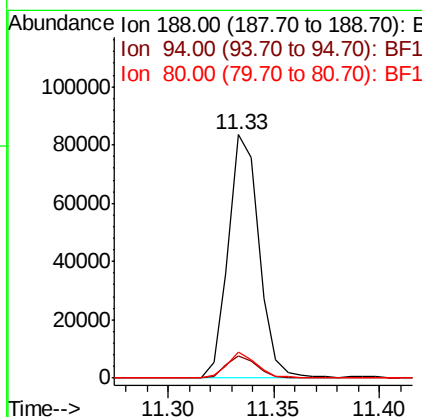
Manual Integrations
 APPROVED

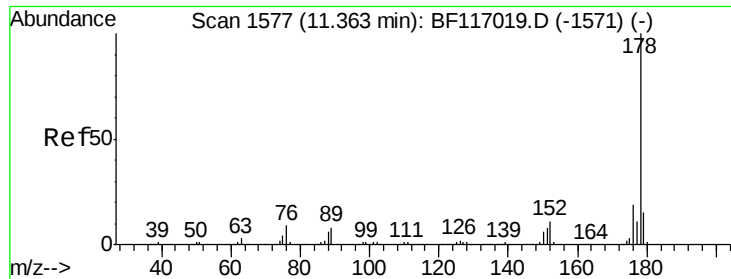
mohammad
 9/26/2019 8:24:31 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: BF117234.D
 Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.2	12.2
80	10.8	9.0	13.6





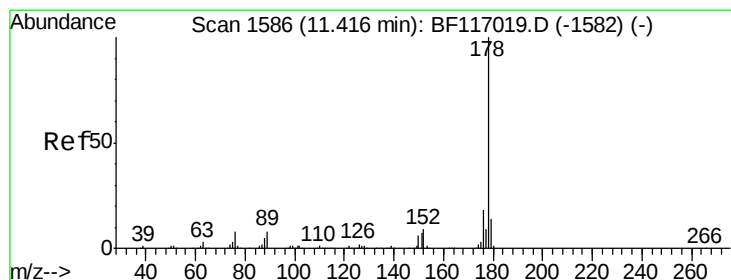
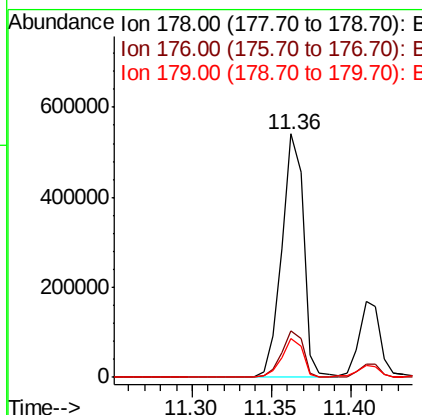
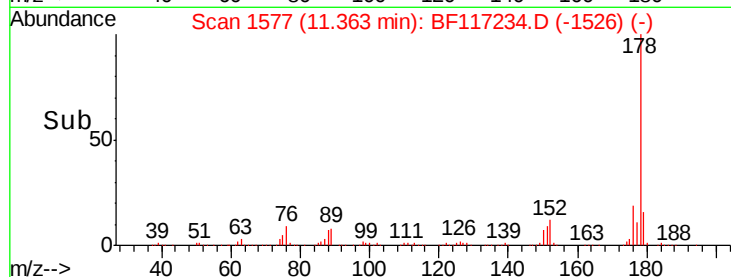
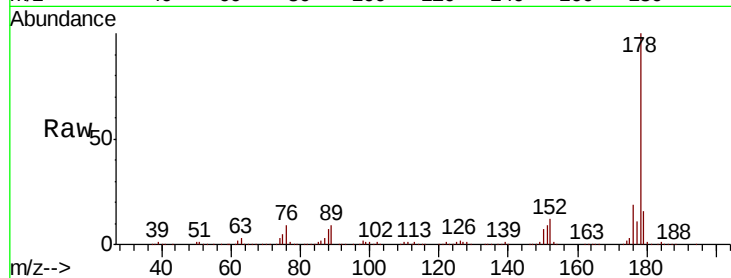
#71
Phenanthrene
Concen: 107.947 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.7	12.4	18.6

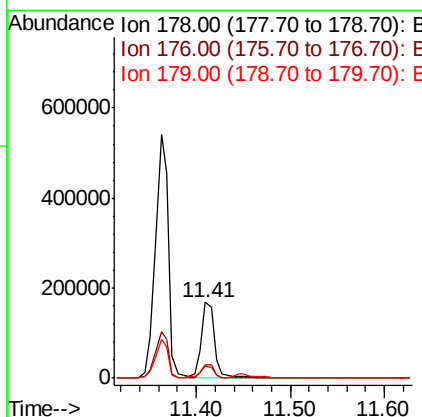
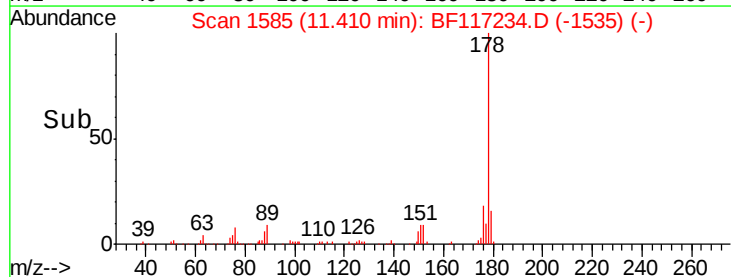
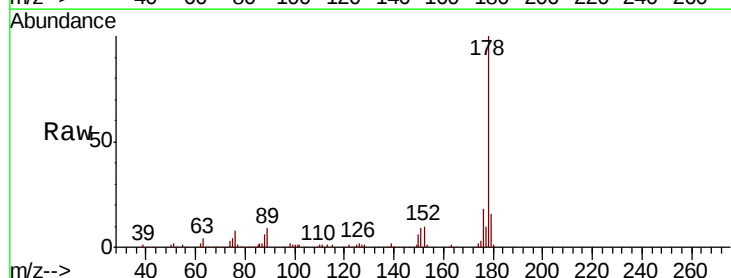
Manual Integrations
APPROVED

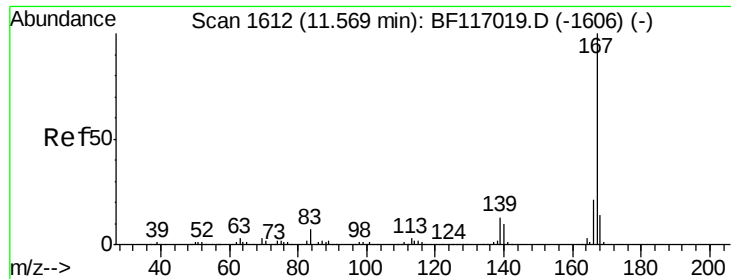
mohammad
9/26/2019 8:24:31 AM



#72
Anthracene
Concen: 34.802 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	21.8
179	15.8	11.6	17.4





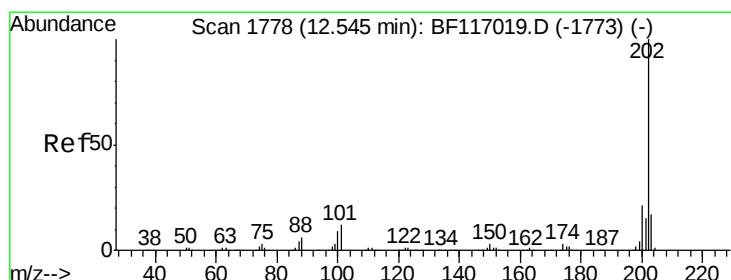
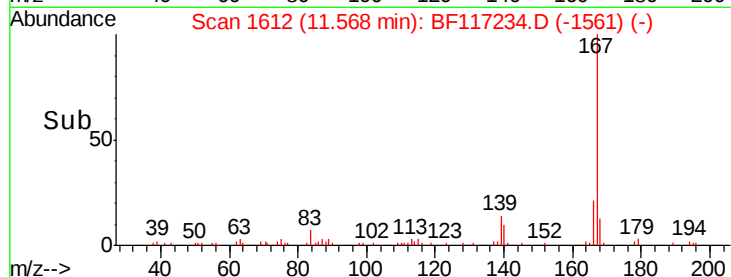
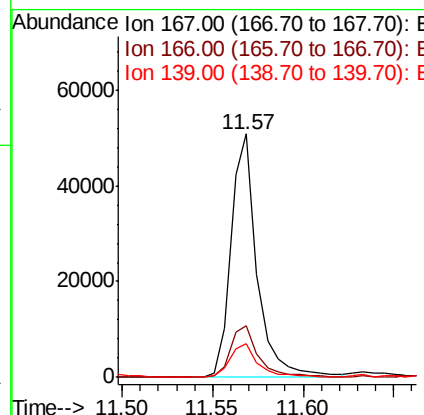
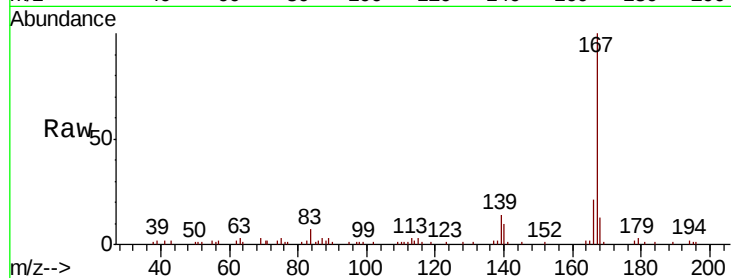
#73
 Carbazole
 Concen: 10.973 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. -0.00 min
 Lab File: BF117234.D
 Acq: 24 Sep 2019 23:40

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-092319

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.2	25.8
139	13.7	10.6	16.0

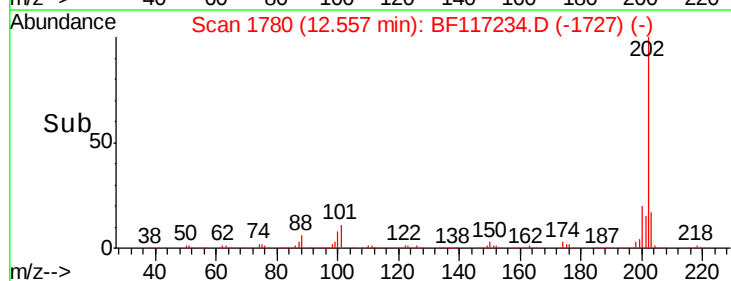
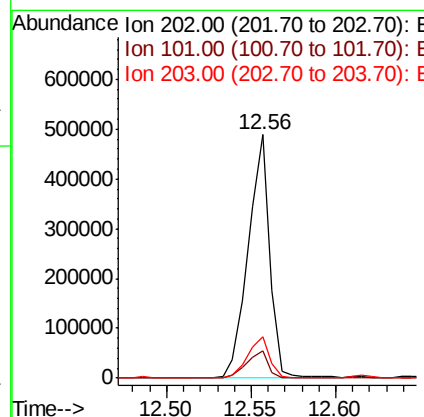
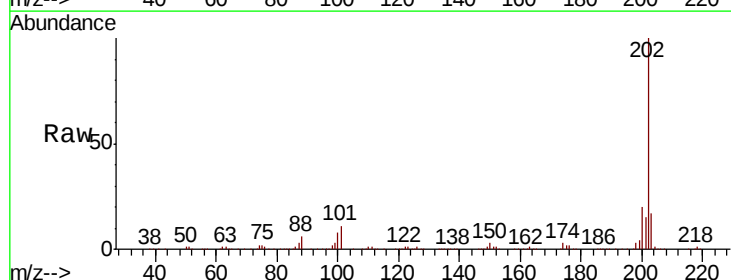
Manual Integrations
 APPROVED

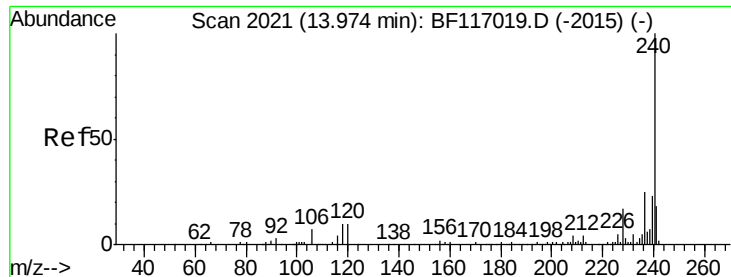
mohammad
 9/26/2019 8:24:31 AM



#75
 Fluoranthene
 Concen: 88.773 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. 0.01 min
 Lab File: BF117234.D
 Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	32.3
203	17.1	0.0	37.1





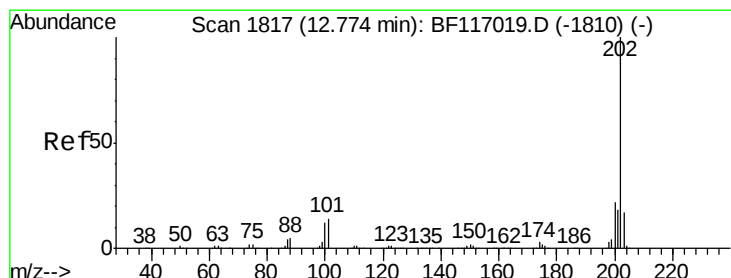
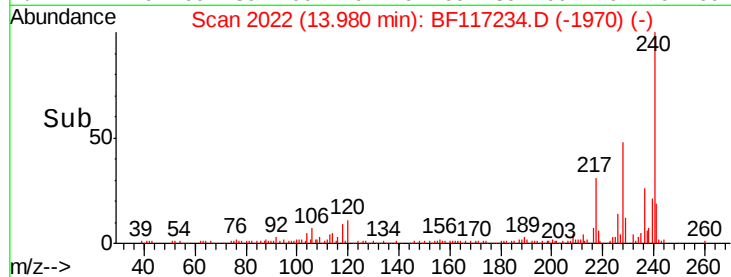
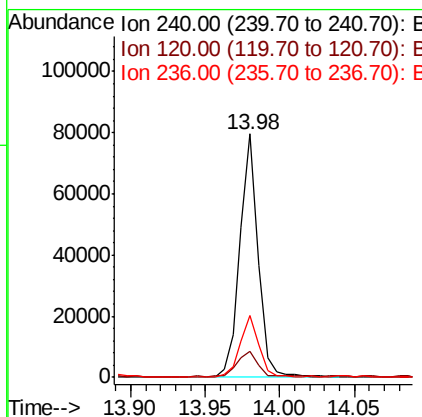
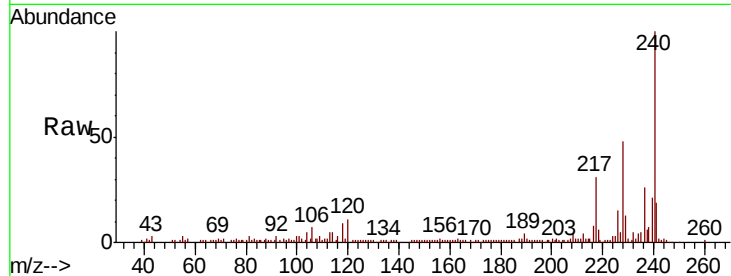
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampled :
SU-03-092319

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.3	12.5
236	25.6	20.3	30.5

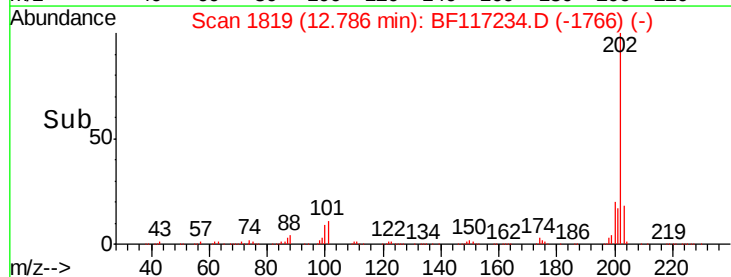
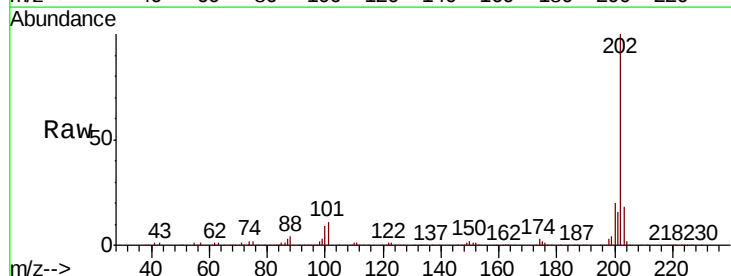
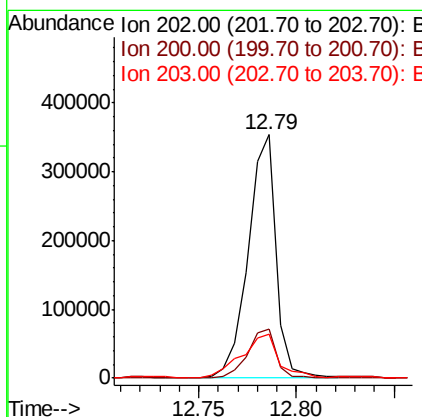
Manual Integrations
APPROVED

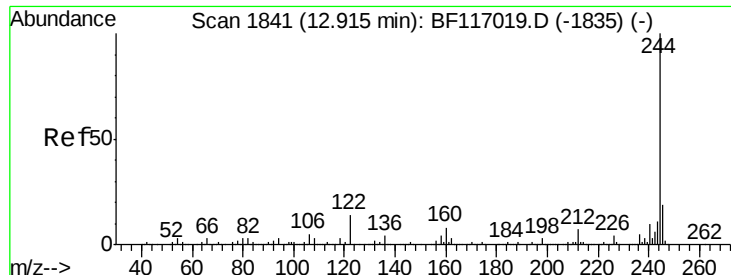
mohammad
9/26/2019 8:24:31 AM



#78
Pyrene
Concen: 60.660 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.2	25.8
203	17.9	14.0	21.0





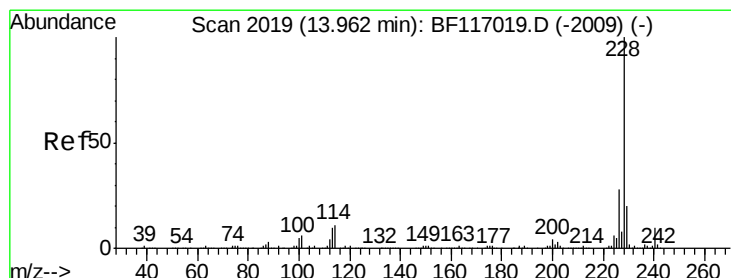
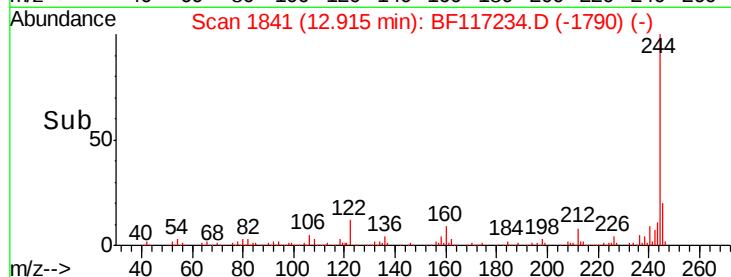
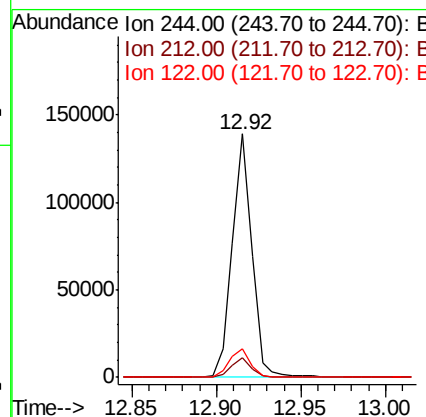
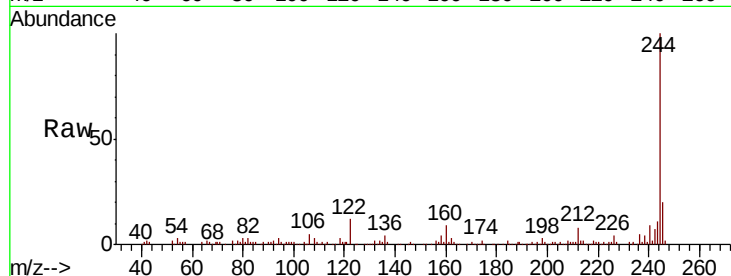
#79
 Terphenyl-d14
 Concen: 30.558 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: BF117234.D
 Acq: 24 Sep 2019 23:40

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-092319

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.9	5.8	8.8
122	11.9	11.3	16.9

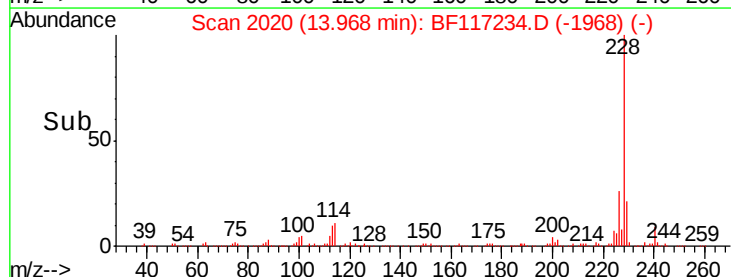
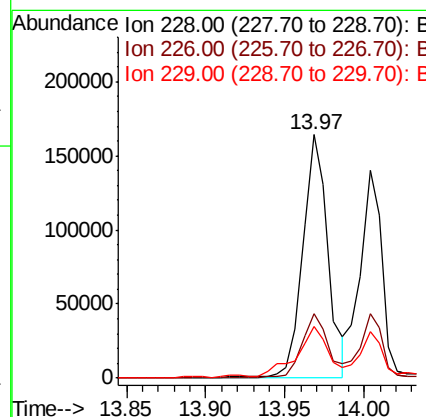
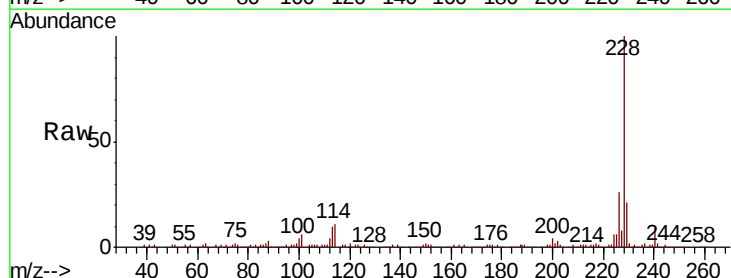
Manual Integrations
 APPROVED

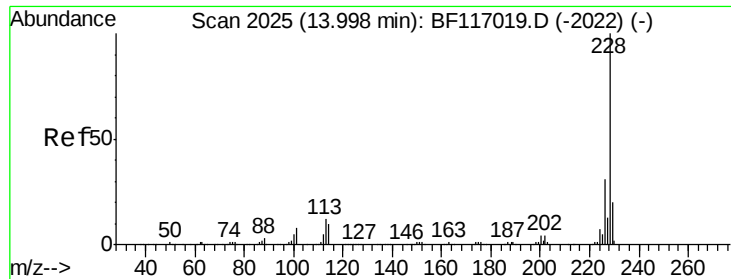
mohammad
 9/26/2019 8:24:31 AM



#81
 Benzo(a)anthracene
 Concen: 39.757 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. 0.01 min
 Lab File: BF117234.D
 Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.4	22.3	33.5
229	21.0	15.9	23.9





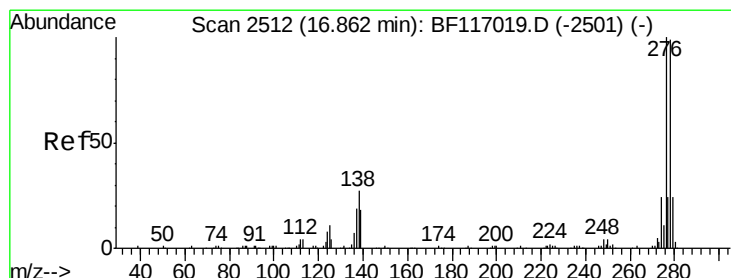
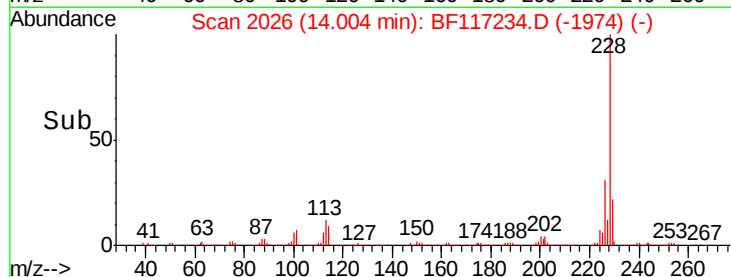
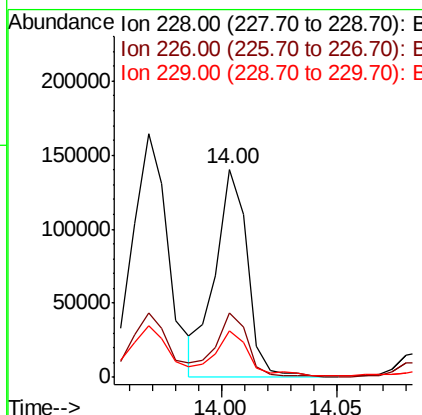
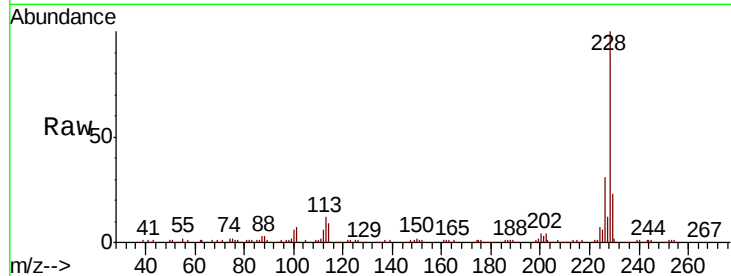
#83
Chrysene
Concen: 30.489 ng
RT: 14.00 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.8	37.2
229	22.6	15.8	23.8

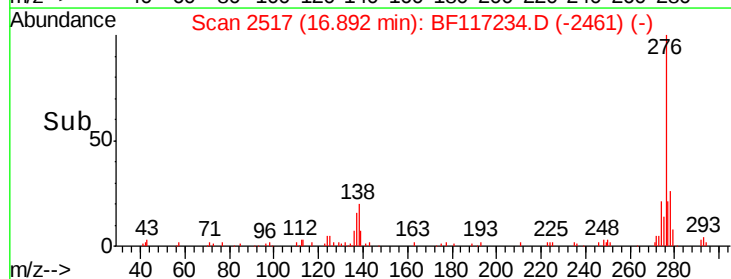
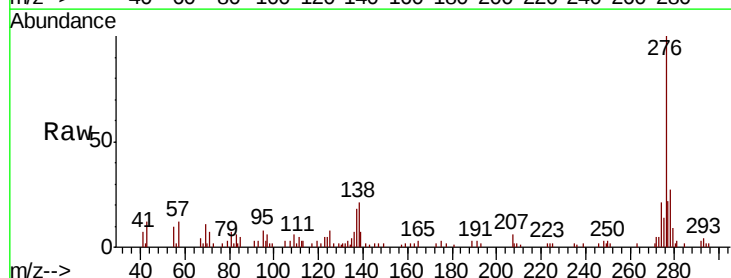
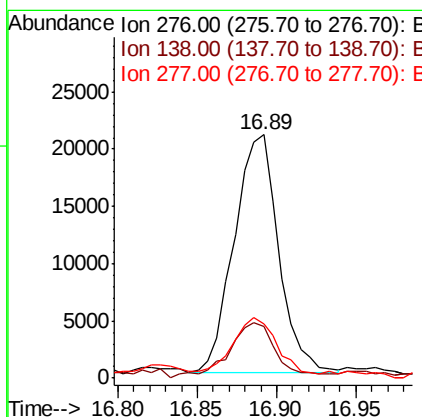
Manual Integrations
APPROVED

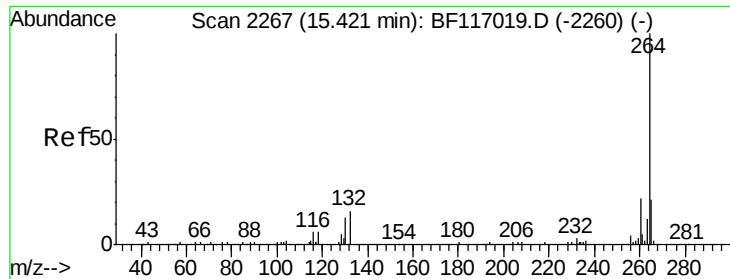
mohammad
9/26/2019 8:24:31 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 12.377 ng
RT: 16.89 min Scan# 2517
Delta R.T. 0.03 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.9	20.7	31.1
277	23.6	19.8	29.8





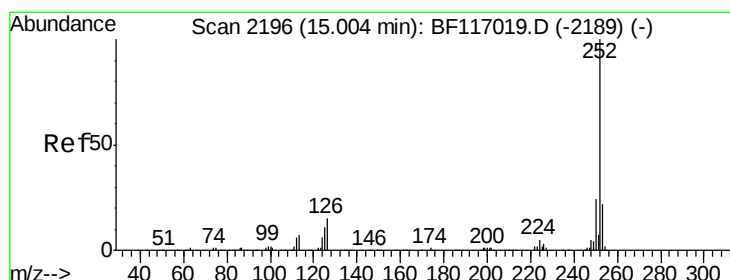
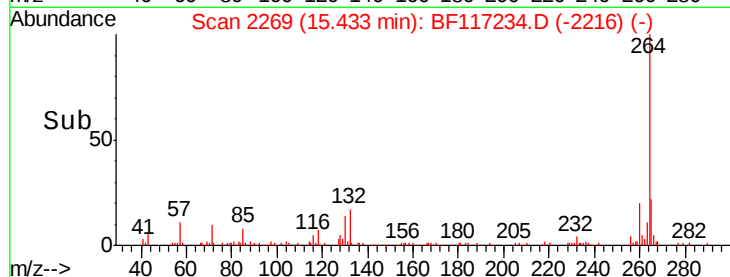
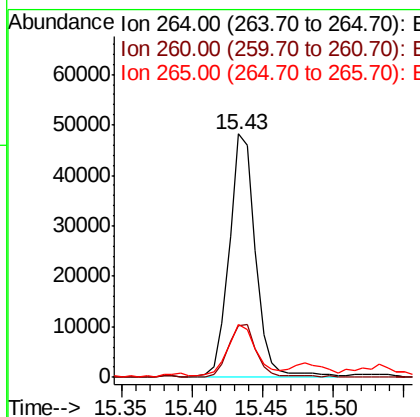
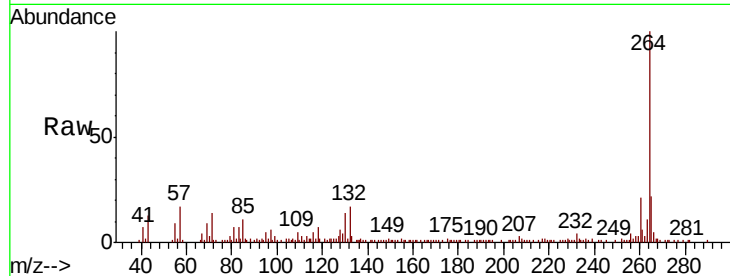
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Tot Ion:	264	Resp:	63111
Ion Ratio	Lower	Upper	
264	100		
260	21.0	17.6	26.4
265	21.6	16.6	24.8

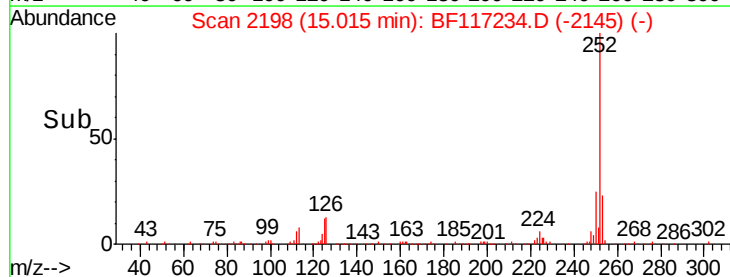
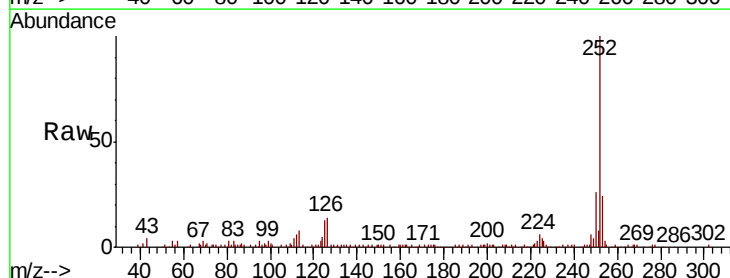
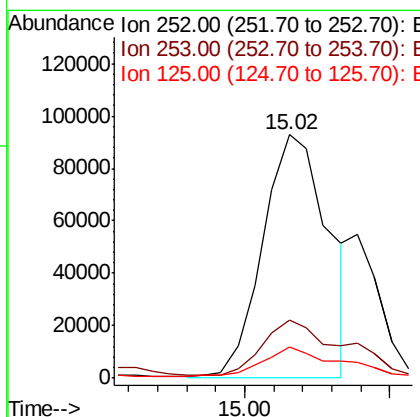
Manual Integrations
APPROVED

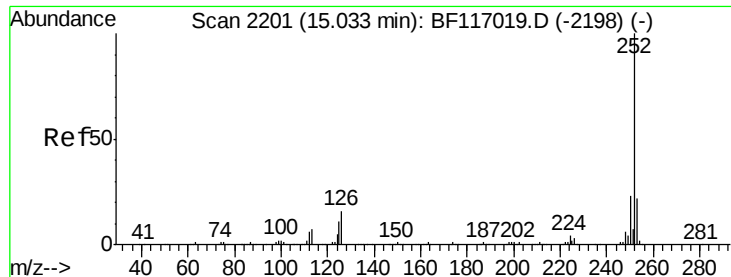
mohammad
9/26/2019 8:24:31 AM



#88
Benzo(b)fluoranthene
Concen: 38.202 ng m
RT: 15.02 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion:	252	Resp:	146042
Ion Ratio	Lower	Upper	
252	100		
253	24.1	17.6	26.4
125	12.6	8.6	12.8





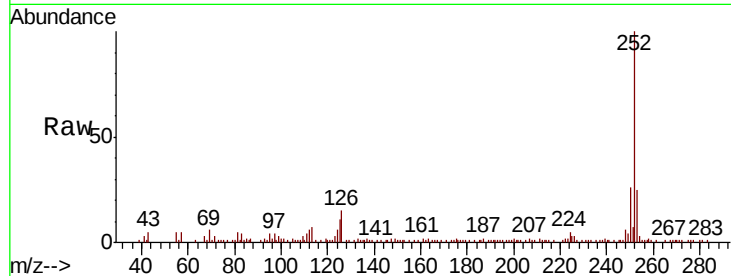
#89
Benzo(k)fluoranthene
Concen: 11.324 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.4	26.2
125	11.2	8.8	13.2

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM

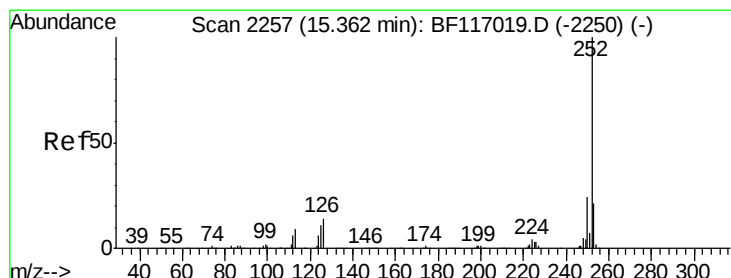
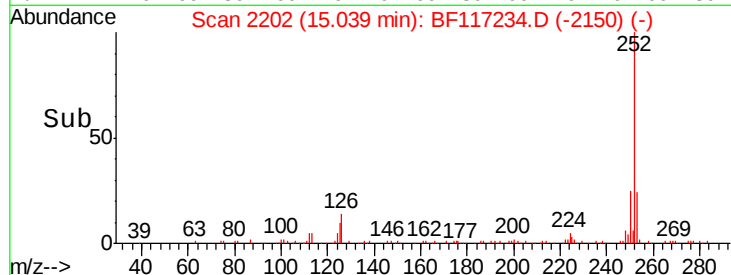
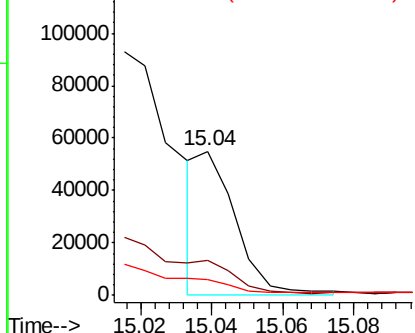


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 28.948 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.01 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

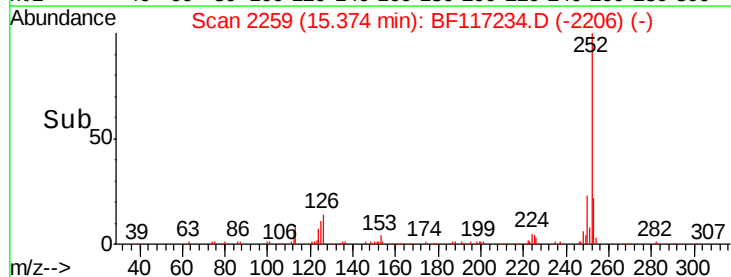
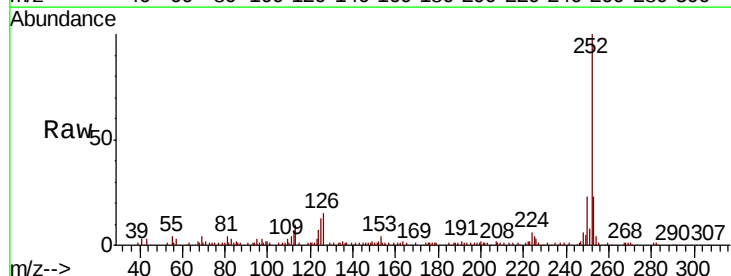
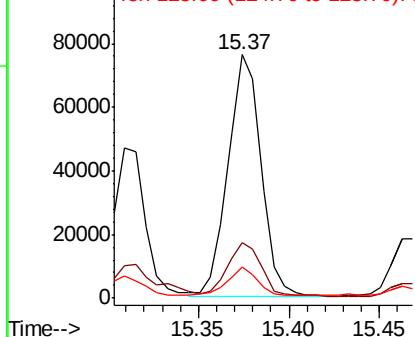
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	16.6	25.0
125	12.8	8.9	13.3

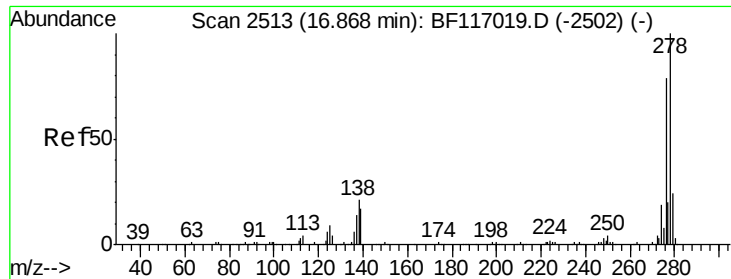
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

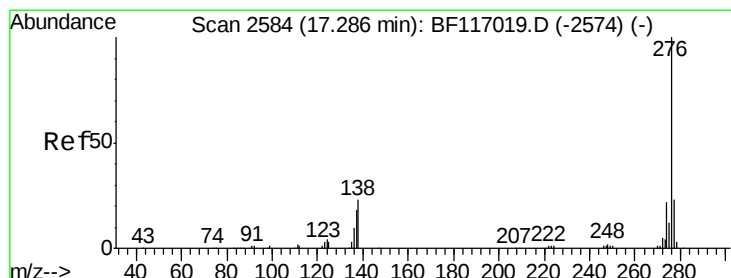
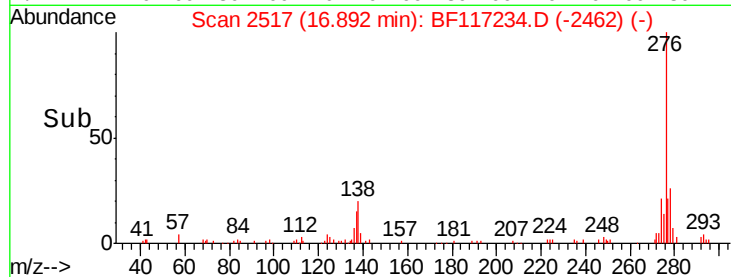
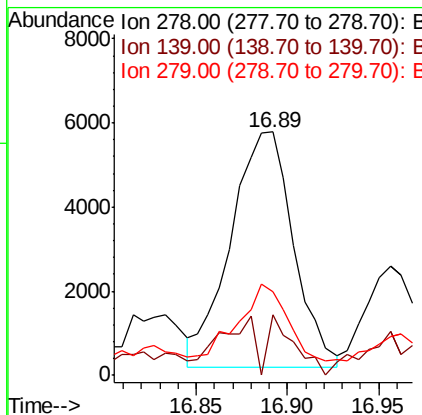
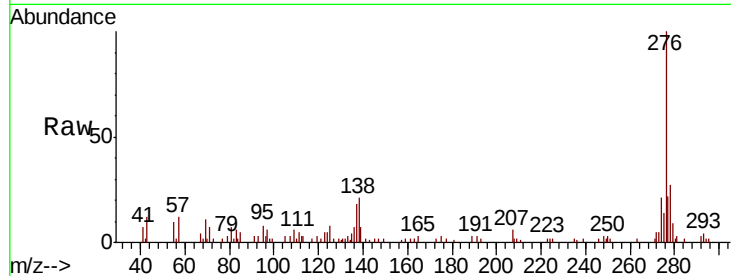
Dibenzo(a,h)anthracene
Concen: 5.026 ng
RT: 16.89 min Scan# 2517
Delta R.T. 0.02 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.9	13.5	20.3
279	34.2	18.8	28.2

Manual Integrations
APPROVED

mohammad
9/26/2019 8:24:31 AM



#92

Benzo(g,h,i)perylene
Concen: 13.257 ng
RT: 17.33 min Scan# 2591
Delta R.T. 0.04 min
Lab File: BF117234.D
Acq: 24 Sep 2019 23:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.9	18.6	27.8
138	21.1	18.0	27.0

