

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
 Data File : BF115616.D
 Acq On : 16 Jul 2019 23:44
 Operator : HP/JU
 Sample : K3740-04 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-23

Manual Integrations
 APPROVED

mohammad
 7/19/2019 2:26:36 PM

Quant Time: Jul 17 06:41:59 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 12 14:03:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	164974	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	624391	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	248780	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	454589	20.00	ng	0.00
76) Chrysene-d12	14.06	240	325512	20.00	ng	0.00
87) Perylene-d12	15.53	264	276074	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	482346	47.82	ng	0.00
7) Phenol-d6	6.51	99	641540	50.13	ng	0.00
23) Nitrobenzene-d5	7.44	82	362018	33.71	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	101537	34.97	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	725765	51.06	ng	-0.01
79) Terphenyl-d14	12.99	244	663484	37.61	ng	0.00
Target Compounds						
50) Dimethylphthalate	9.63	163	160452	8.572	ng	97
52) Acenaphthene	9.96	154	66385	4.285	ng	99
58) Fluorene	10.47	166	68351	4.346	ng	100
71) Phenanthrene	11.44	178	729113	31.290	ng	96
72) Anthracene	11.49	178	224883	9.338	ng	97
73) Carbazole	11.63	167	78539	3.719	ng	97
75) Fluoranthene	12.63	202	1184265	48.094	ng	99
78) Pyrene	12.86	202	1068903	38.758	ng	98
81) Benzo(a)anthracene	14.04	228	561516	26.184	ng	98
83) Chrysene	14.08	228	470760	21.868	ng	96
86) Indeno(1,2,3-cd)pyrene	17.02	276	190141	10.396	ng	94
88) Benzo(b)fluoranthene	15.10	252	553811m	31.153	ng	
89) Benzo(k)fluoranthene	15.13	252	151040m	9.530	ng	
90) Benzo(a)pyrene	15.47	252	342511	22.417	ng	97
91) Dibenzo(a,h)anthracene	17.03	278	48720	3.632	ng	# 79
92) Benzo(g,h,i)perylene	17.47	276	180180	13.469	ng	98

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

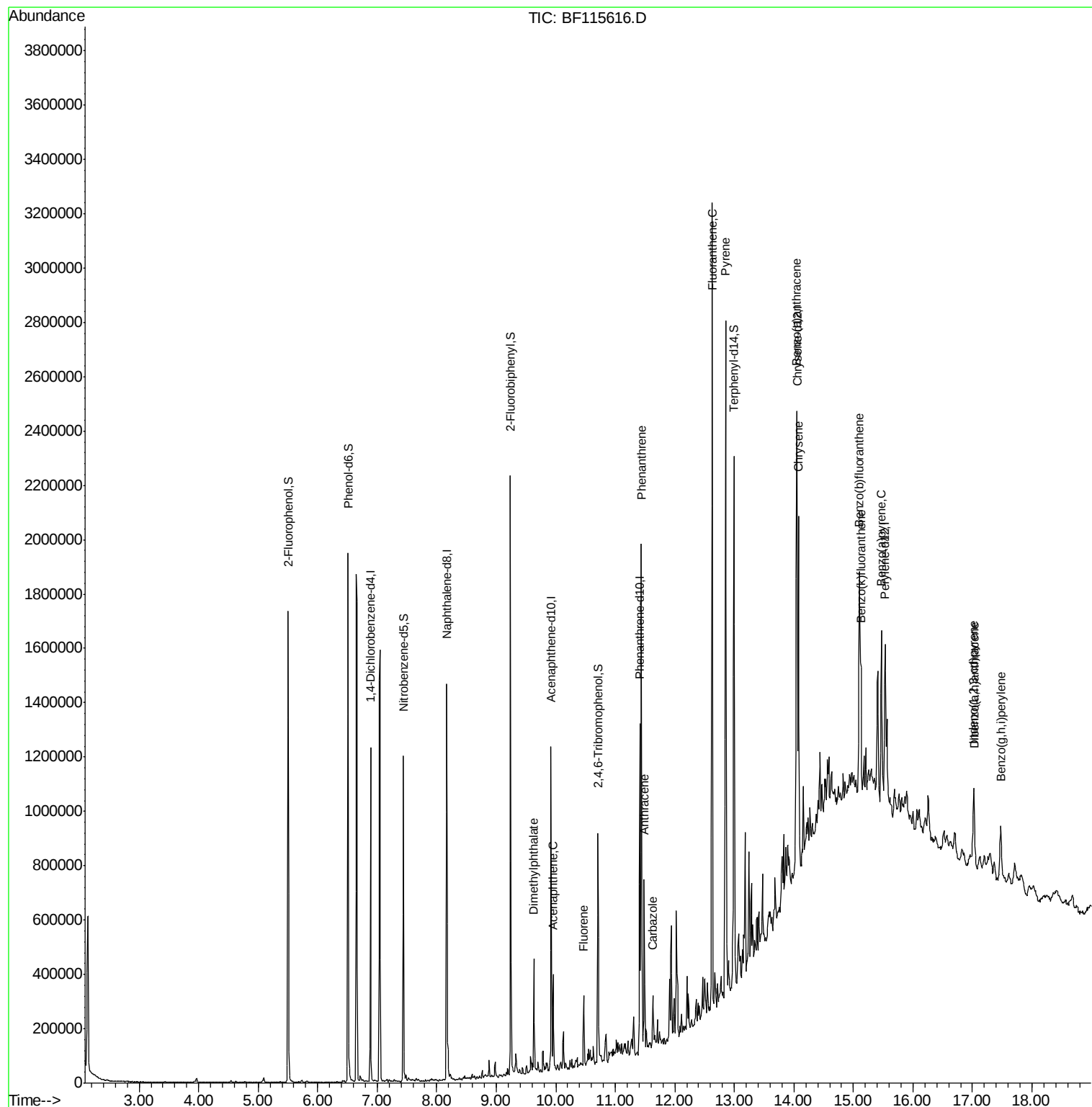
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
Data File : BF115616.D
Acq On : 16 Jul 2019 23:44
Operator : HP/JU
Sample : K3740-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
COMP-23

Manual Integrations
APPROVED

mohammad
7/19/2019 2:26:36 PM

Quant Time: Jul 17 06:41:59 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 14:03:52 2019
Response via : Initial Calibration





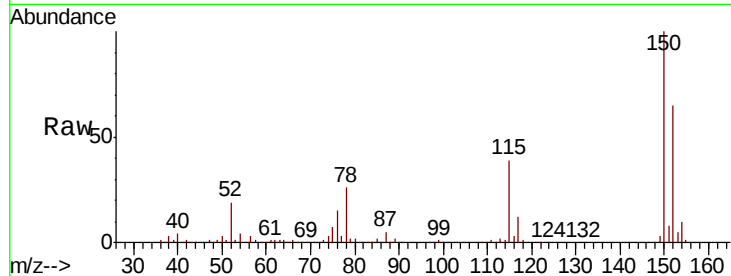
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.89 min Scan# 816
 Delta R.T. 0.00 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Instrument :
 BNA_F
 ClientSampleId :
 COMP-23

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	129.7	194.5
115	59.5	48.2	72.4

Manual Integrations
 APPROVED

mohammad
 7/19/2019 2:26:36 PM

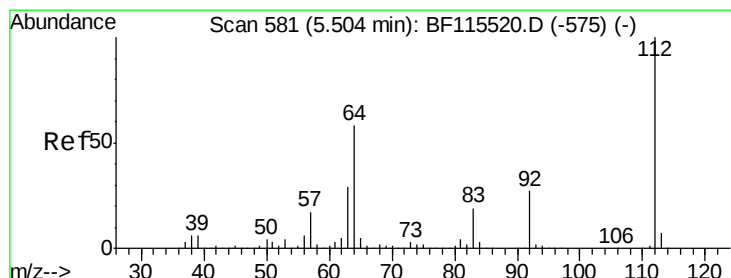
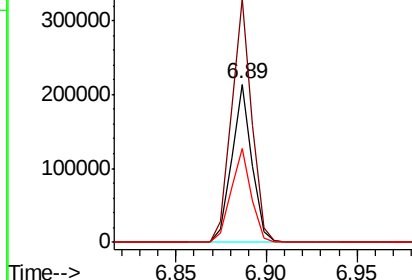
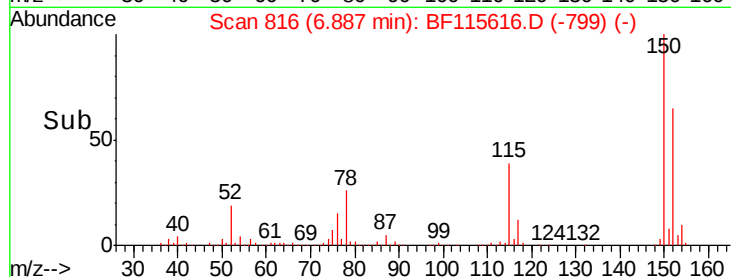


Abundance

Ion 152.00 (151.70 to 152.70): E

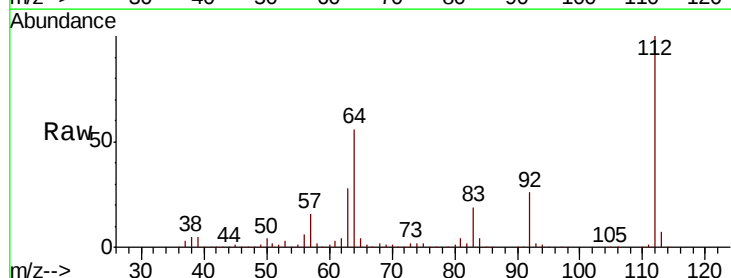
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 47.824 ng
 RT: 5.50 min Scan# 581
 Delta R.T. 0.00 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	46.8	70.2
63	28.1	24.1	36.1

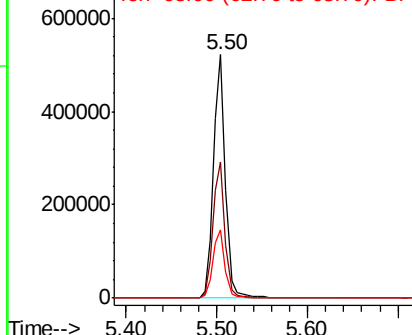
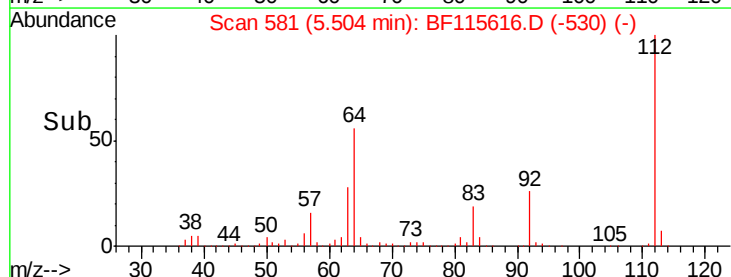


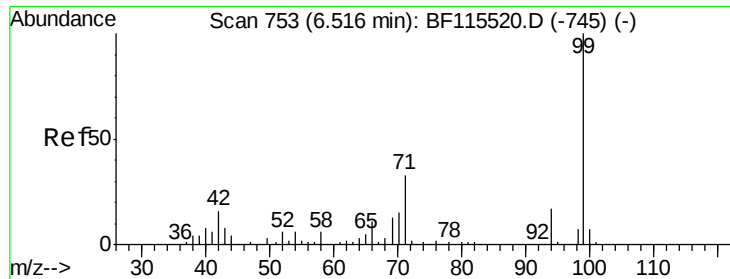
Abundance

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: 50.129 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF115616.D

Acq: 16 Jul 2019 23:44

Instrument :

BNA_F

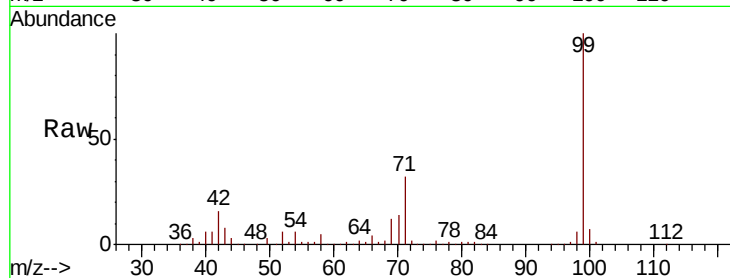
ClientSampleId :

COMP-23

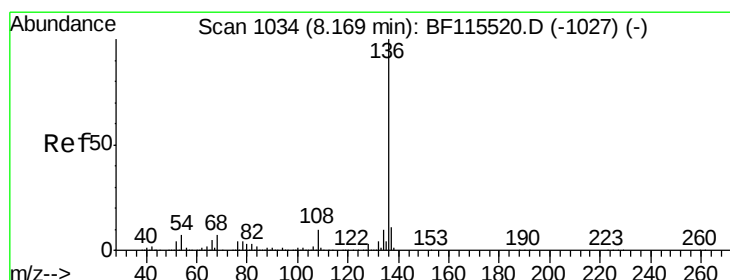
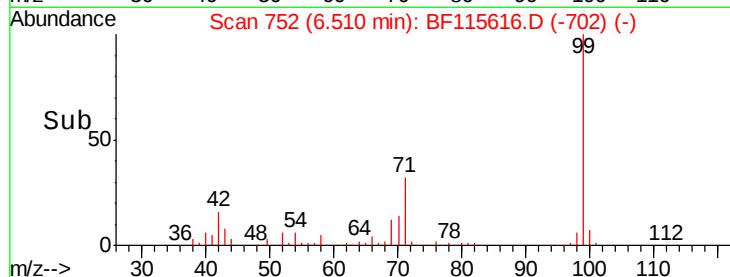
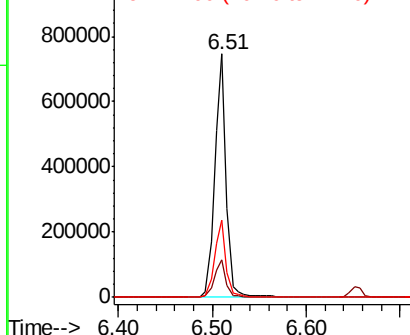
Tot Ion:	99	Resp:	641540
Ion Ratio	Lower	Upper	
99	100		
42	15.7	13.6	20.4
71	31.9	28.5	42.7

Manual Integrations
APPROVED

mohammad
7/19/2019 2:26:36 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: 8.17 min Scan# 1034

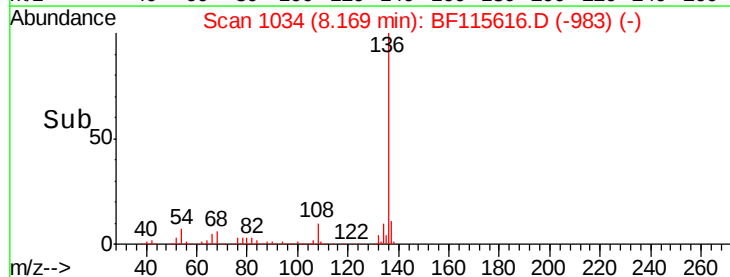
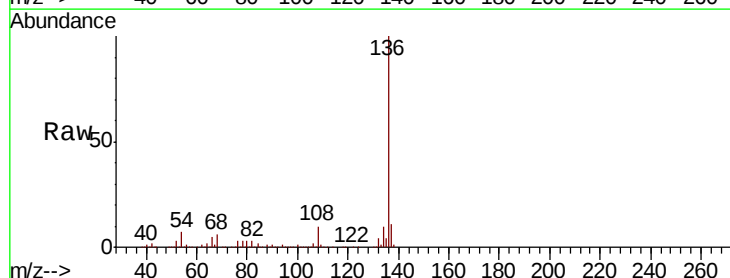
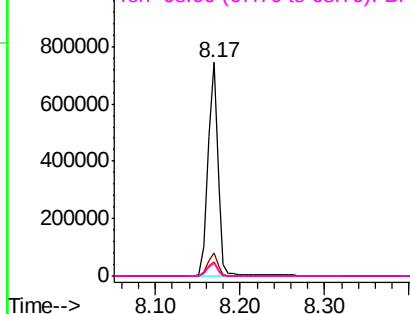
Delta R.T. 0.00 min

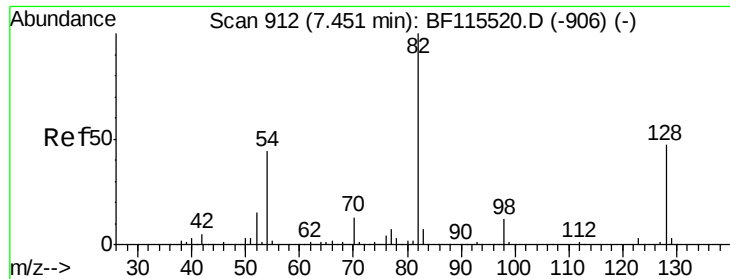
Lab File: BF115616.D

Acq: 16 Jul 2019 23:44

Tgt Ion:	136	Resp:	624391
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.0	13.4
54	6.6	5.6	8.4
68	6.3	5.0	7.6

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





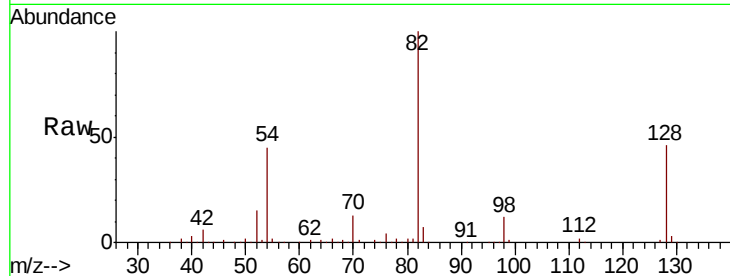
#23
Nitrobenzene-d5
Concen: 33.713 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Instrument :
BNA_F
ClientSampleId :
COMP-23

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.8	38.6	57.8
54	44.7	35.6	53.4

Manual Integrations
APPROVED

mohammad
7/19/2019 2:26:36 PM

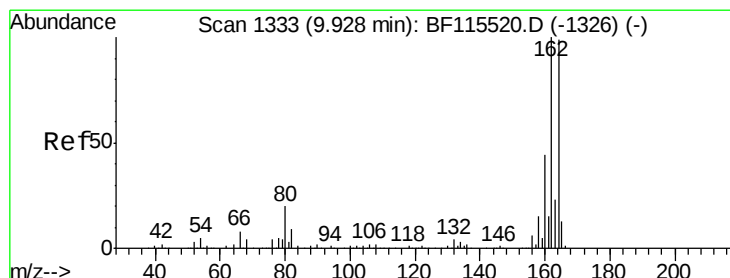
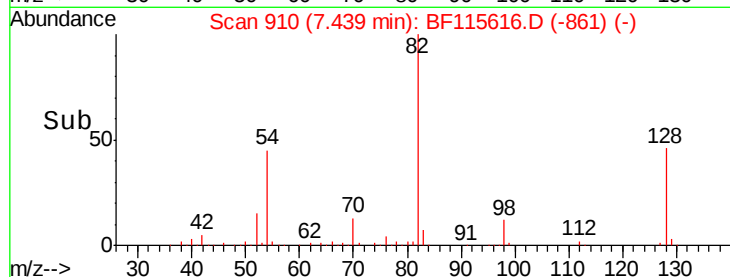
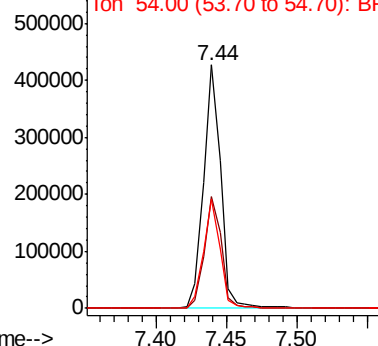


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

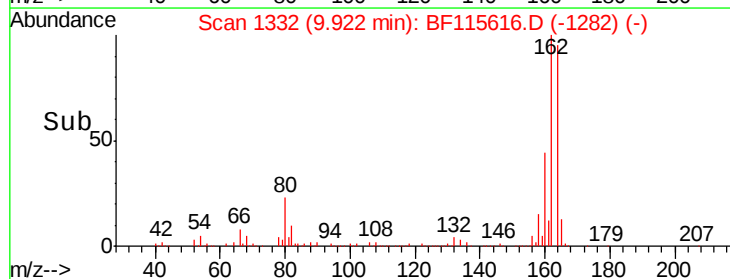
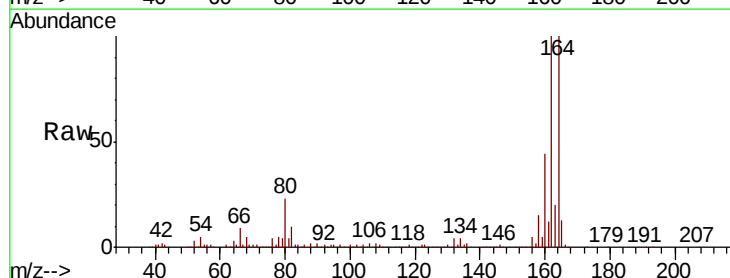
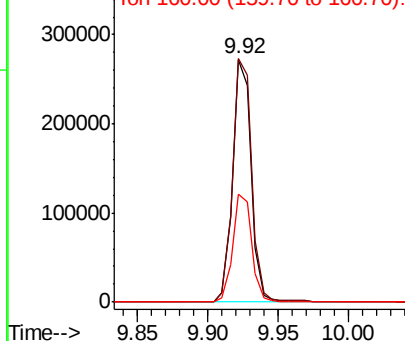
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.3	82.9	124.3
160	44.2	36.8	55.2

Abundance

Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





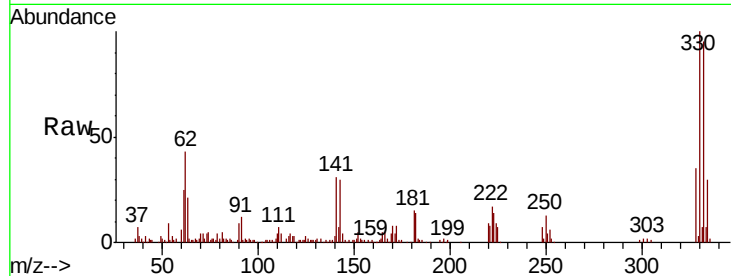
#42
 2,4,6-Tribromophenol
 Concen: 34.966 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Instrument :
 BNA_F
 ClientSampleId :
 COMP-23

Tot Ion	Ratio	Resp	Lower	Upper
330	100	101537		
332	95.9	77.4	116.2	
141	31.0	22.4	33.6	

Manual Integrations
 APPROVED

mohammad
 7/19/2019 2:26:36 PM

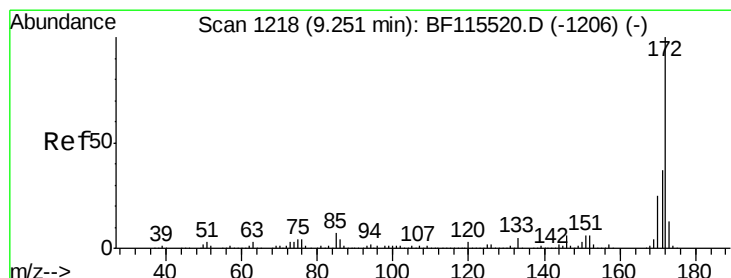
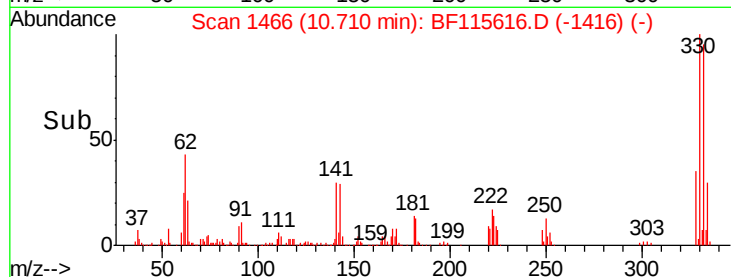
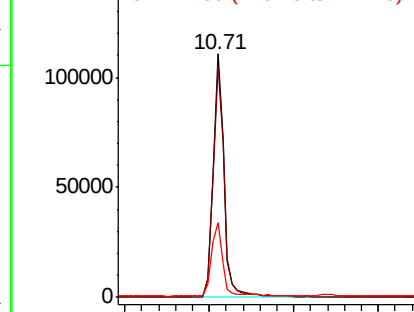


Abundance

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: 51.061 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

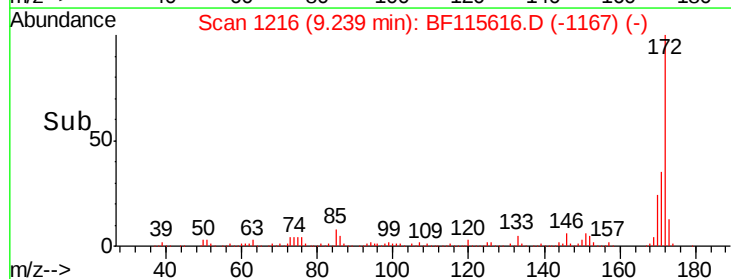
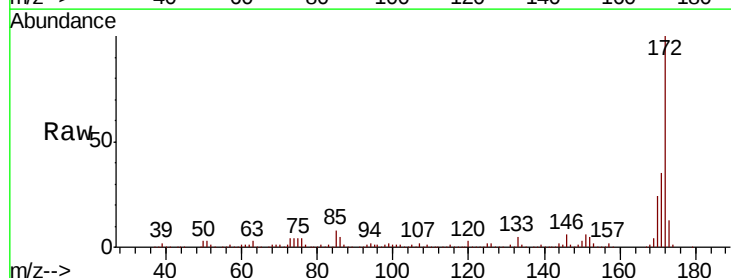
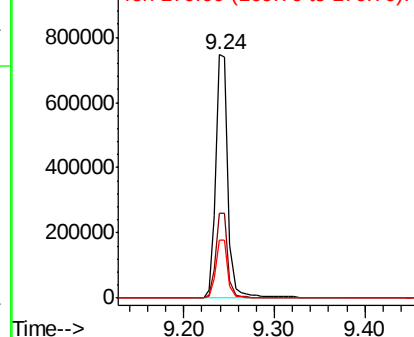
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	725765		
171	34.9	30.6	46.0	
170	23.6	20.5	30.7	

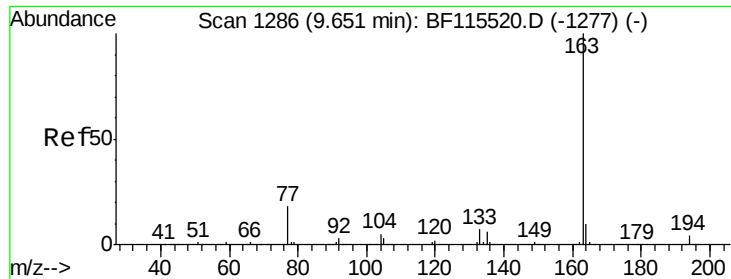
Abundance

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





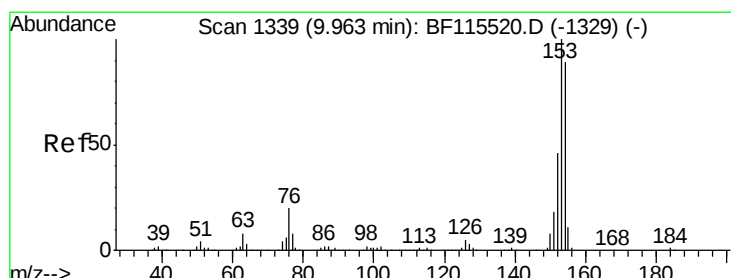
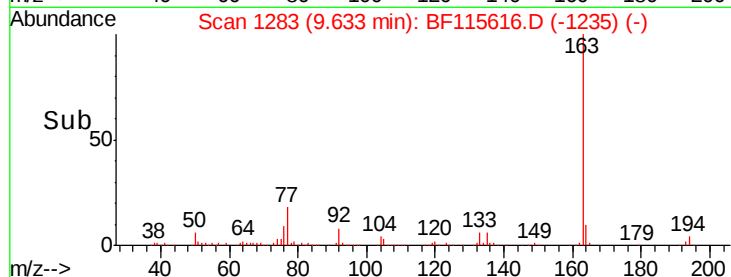
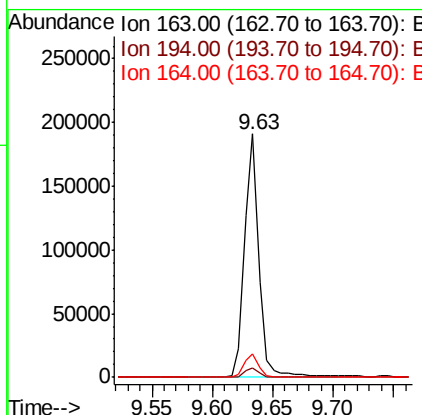
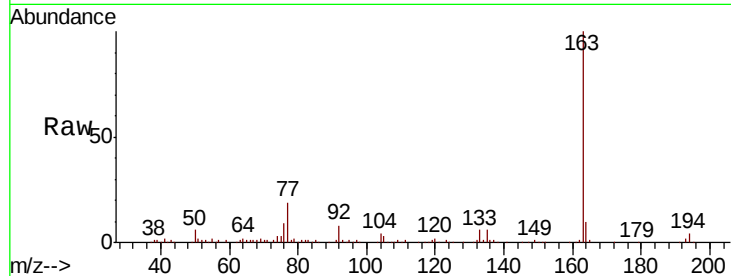
#50
Dimethylphthalate
Concen: 8.572 ng
RT: 9.63 min Scan# 1283
Delta R.T. -0.02 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Instrument :
BNA_F
ClientSampleId :
COMP-23

Tot Ion	Ratio	Resp	Lower	Upper
163	100	160452		
194	4.0		3.3	4.9
164	9.6		8.7	13.1

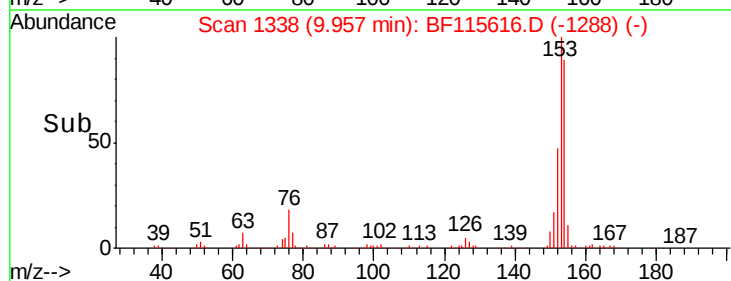
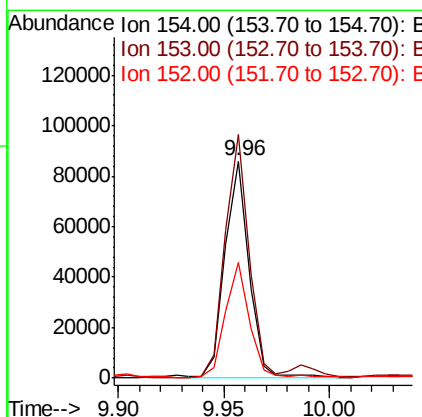
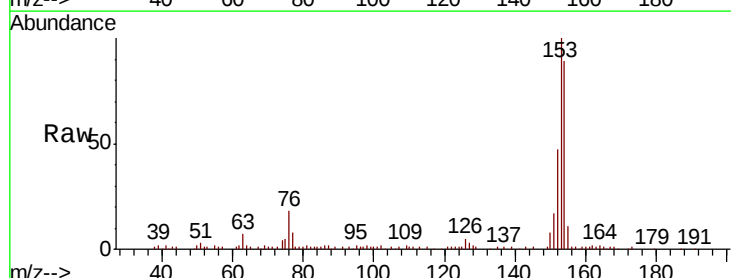
Manual Integrations
APPROVED

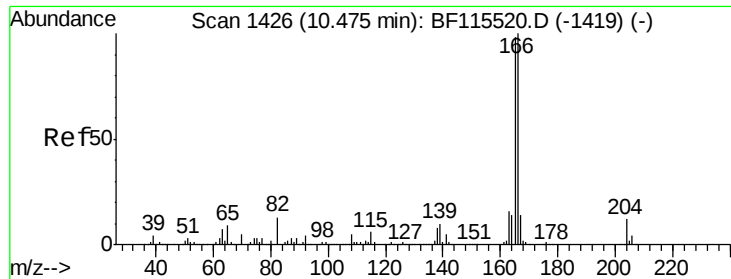
mohammad
7/19/2019 2:26:36 PM



#52
Acenaphthene
Concen: 4.285 ng
RT: 9.96 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	66385		
153	112.1		88.6	133.0
152	53.2		42.3	63.5





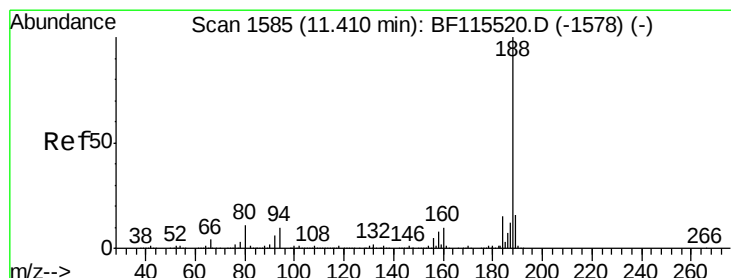
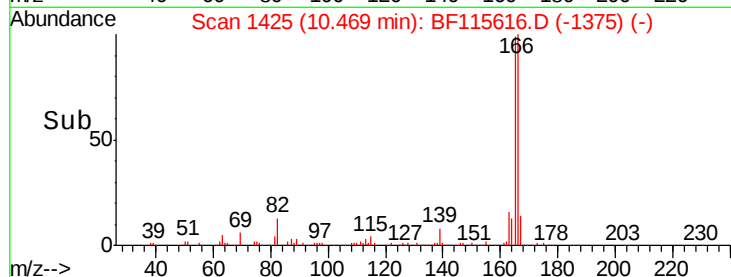
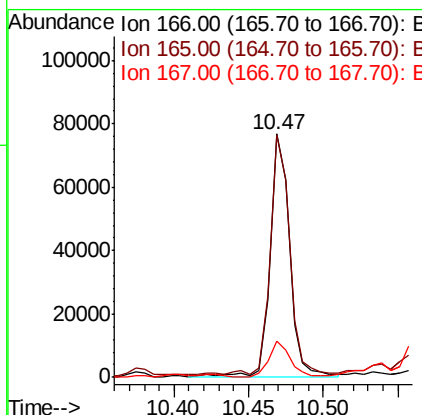
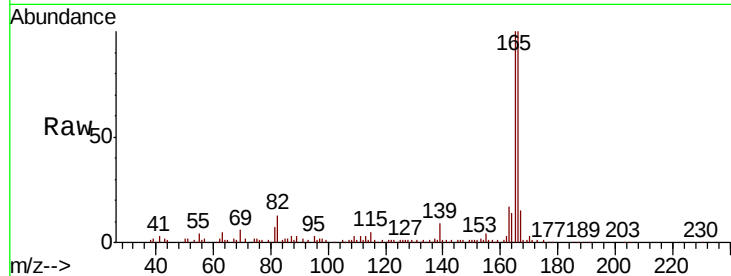
#58
 Fluorene
 Concen: 4.346 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Instrument :
 BNA_F
 ClientSampled :
 COMP-23

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.8	119.6
167	14.8	11.2	16.8

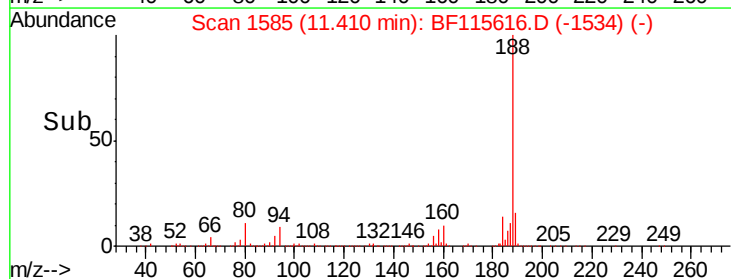
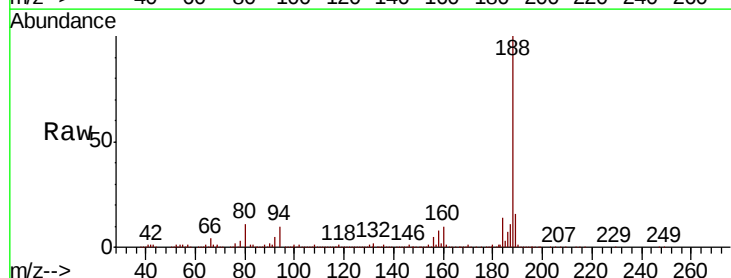
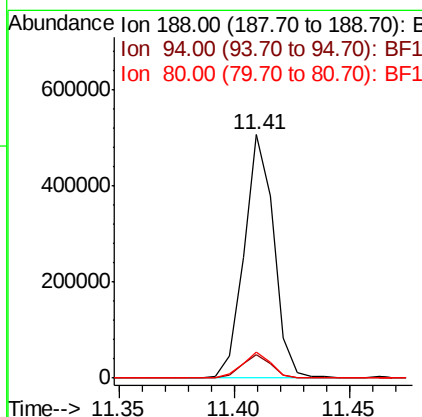
Manual Integrations
 APPROVED

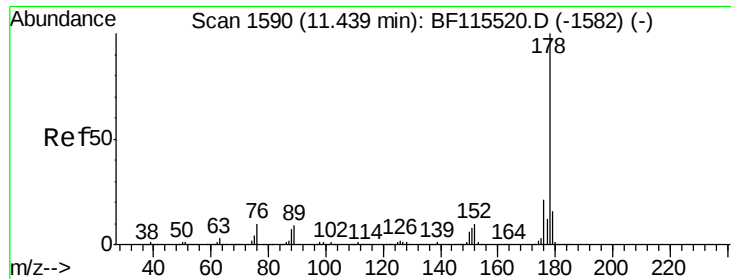
mohammad
 7/19/2019 2:26:36 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.8	11.6
80	10.8	8.6	13.0





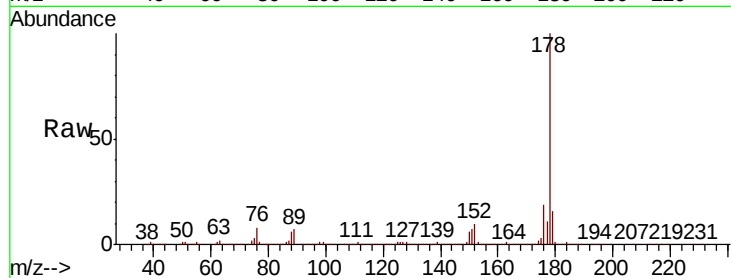
#71
Phenanthrene
Concen: 31.290 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.00 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Instrument :
BNA_F
ClientSampled :
COMP-23

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	17.2	25.8
179	15.6	13.5	20.3

Manual Integrations
APPROVED

mohammad
7/19/2019 2:26:36 PM

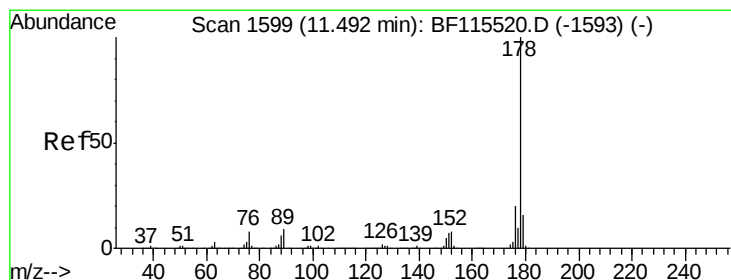
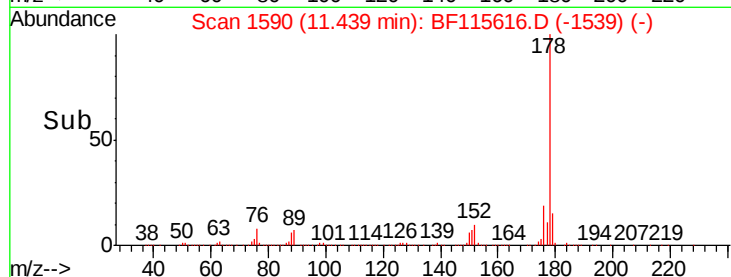
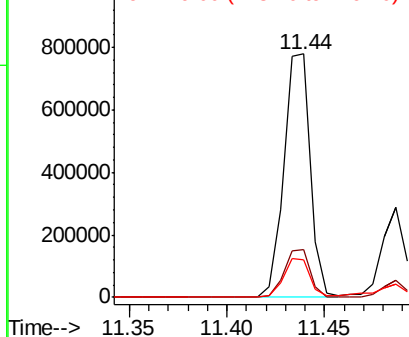


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
Anthracene
Concen: 9.338 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

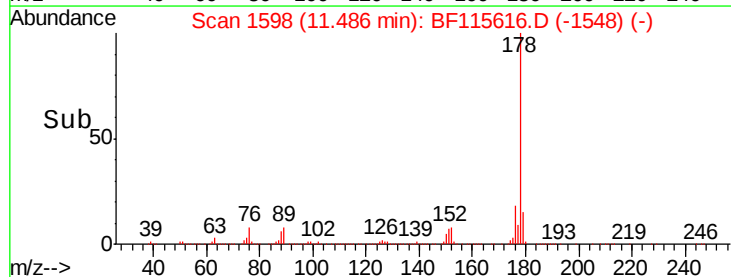
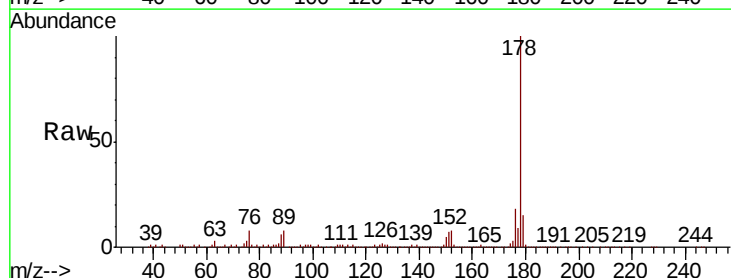
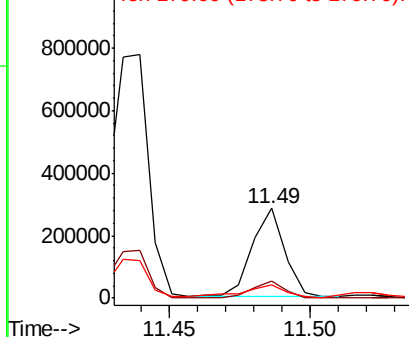
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.9	23.9
179	14.8	12.7	19.1

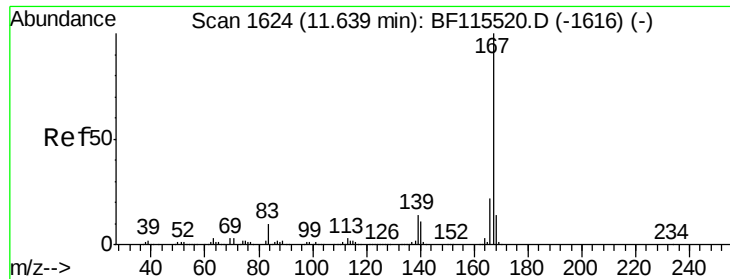
Abundance

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





#73

Carbazole

Concen: 3.719 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF115616.D

Acq: 16 Jul 2019 23:44

Instrument :

BNA_F

ClientSampleId :

COMP-23

Tot Ion:167 Resp: 78539

Ion Ratio Lower Upper

167 100

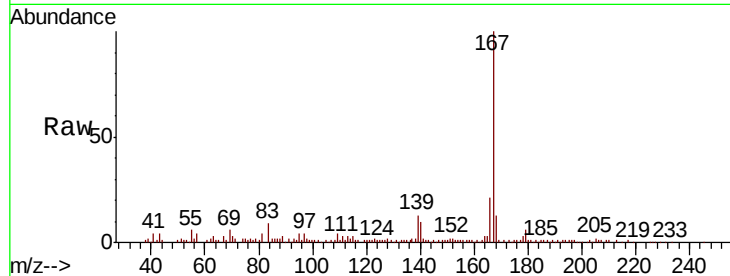
166 21.5 18.1 27.1

139 12.8 11.3 16.9

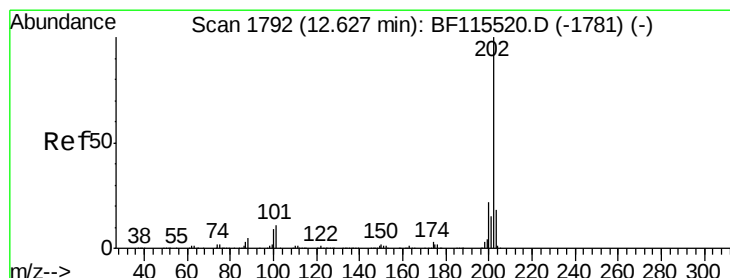
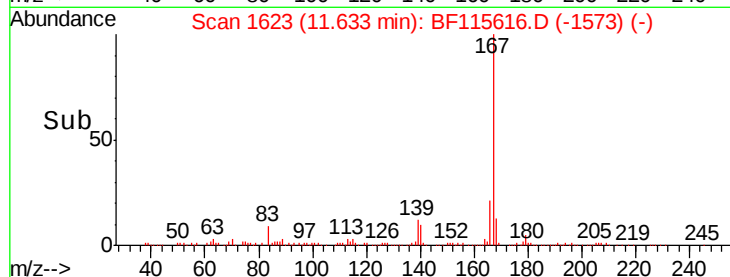
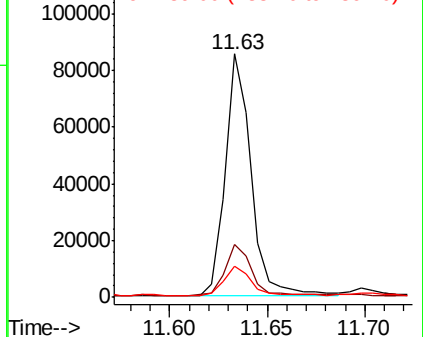
Manual Integrations
APPROVED

mohammad

7/19/2019 2:26:36 PM



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 48.094 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.00 min

Lab File: BF115616.D

Acq: 16 Jul 2019 23:44

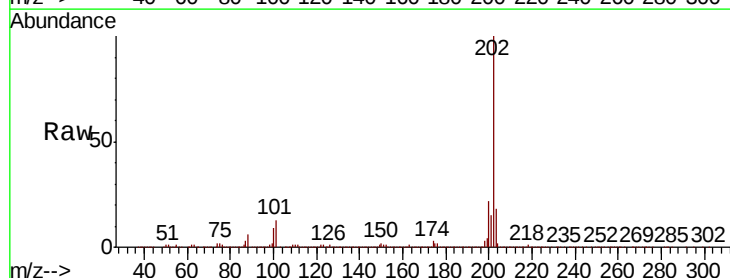
Tgt Ion:202 Resp: 1184265

Ion Ratio Lower Upper

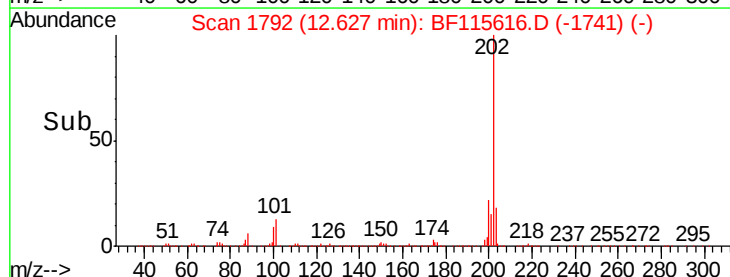
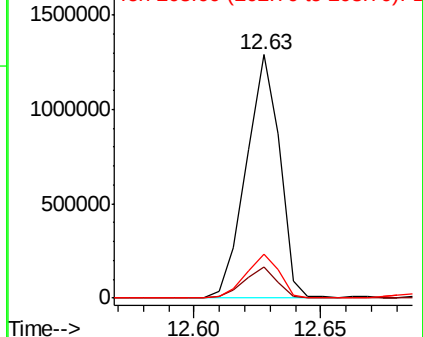
202 100

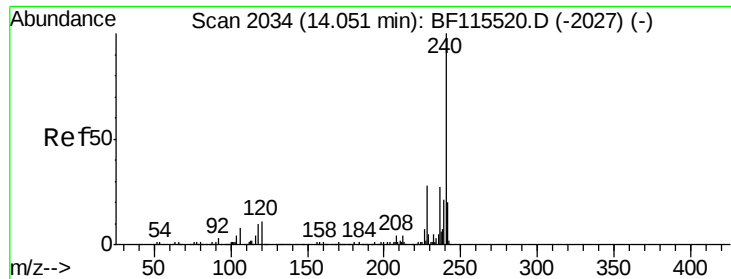
101 12.6 0.0 31.4

203 18.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





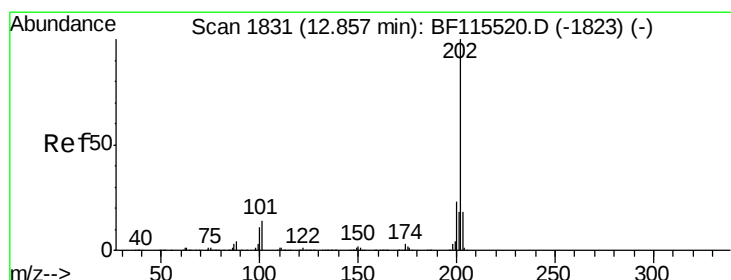
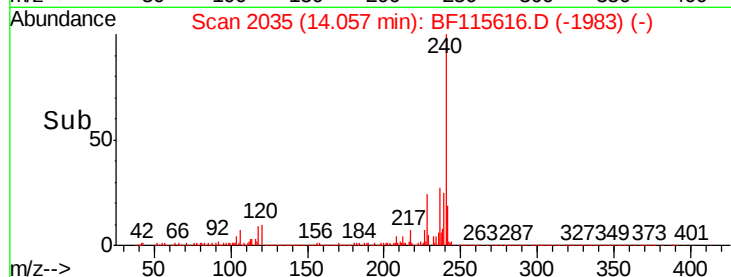
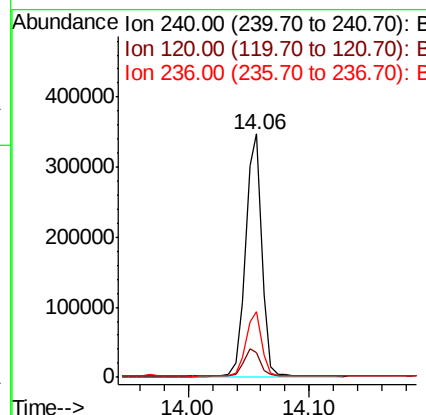
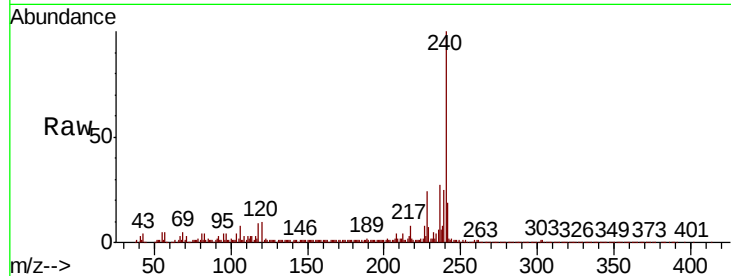
#76
 Chrvsene-d12
 Concen: 20.000 ng
 RT: 14.06 min Scan# 2035
 Delta R.T. 0.01 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Instrument :
 BNA_F
 ClientSampleId :
 COMP-23

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.6	13.0
236	27.2	21.3	31.9

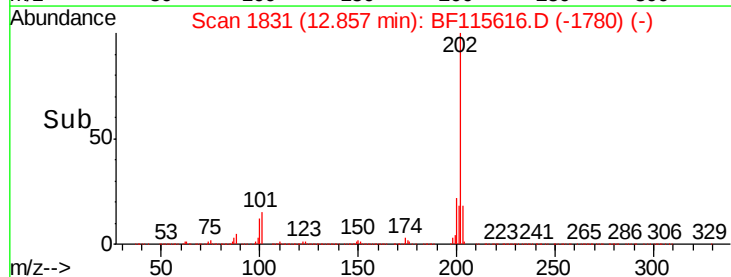
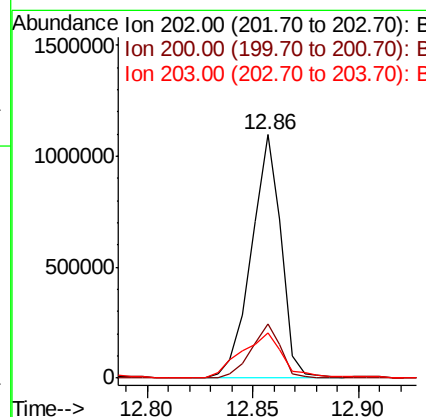
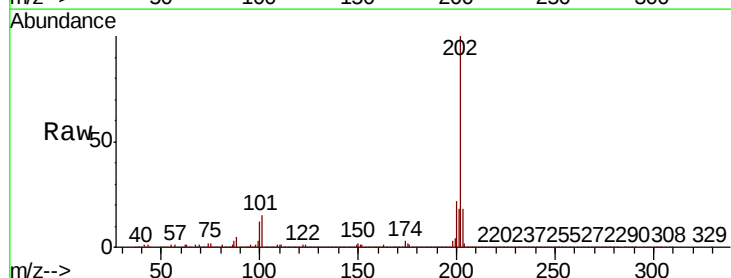
Manual Integrations
 APPROVED

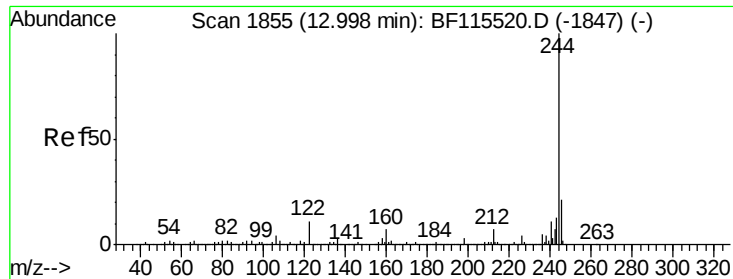
mohammad
 7/19/2019 2:26:36 PM



#78
 Pyrene
 Concen: 38.758 ng
 RT: 12.86 min Scan# 1831
 Delta R.T. 0.00 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	18.7	28.1
203	18.5	15.2	22.8





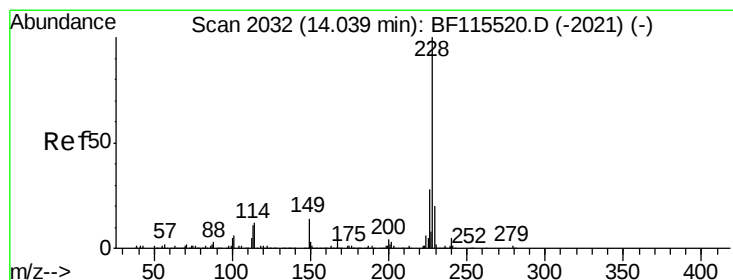
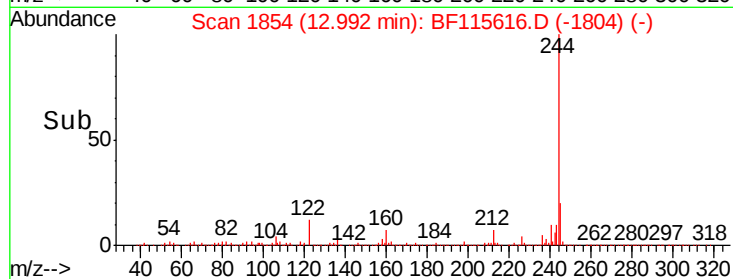
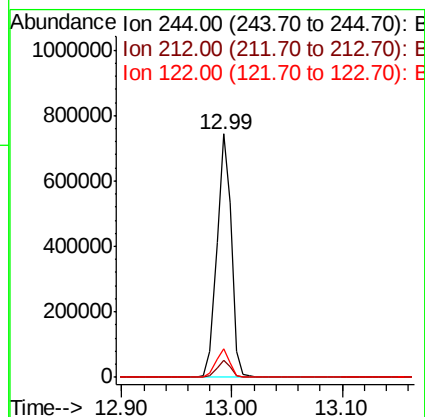
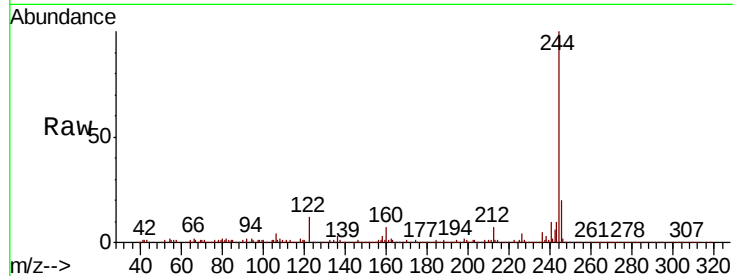
#79
 Terphenyl-d14
 Concen: 37.610 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Instrument :
 BNA_F
 ClientSampleId :
 COMP-23

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	11.7	8.6	12.8

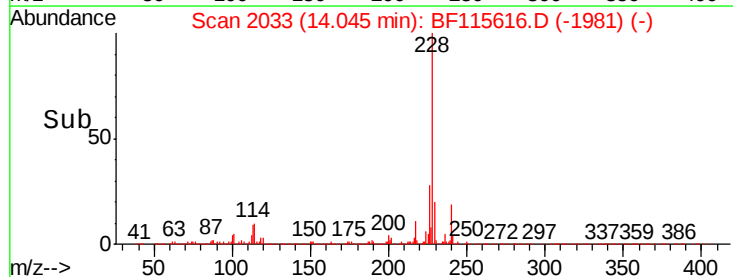
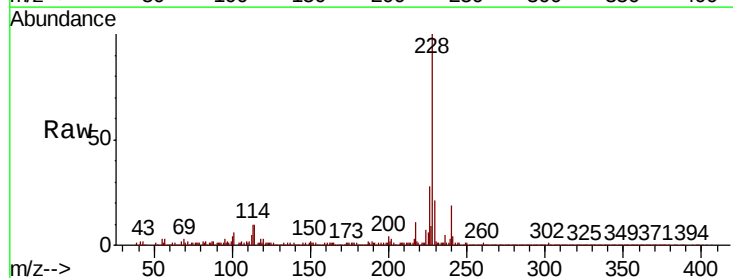
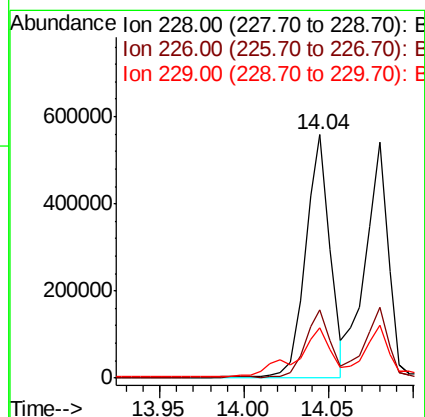
Manual Integrations
 APPROVED

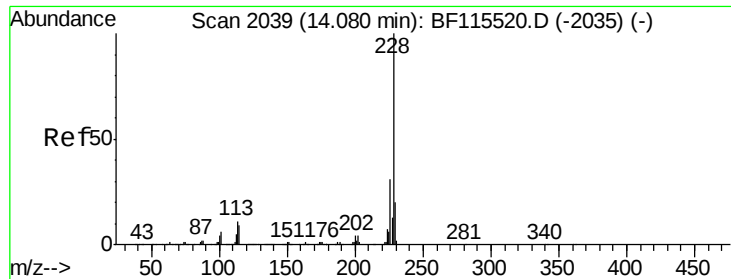
mohammad
 7/19/2019 2:26:36 PM



#81
 Benzo(a)anthracene
 Concen: 26.184 ng
 RT: 14.04 min Scan# 2033
 Delta R.T. 0.01 min
 Lab File: BF115616.D
 Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	23.4	35.0
229	20.8	17.2	25.8





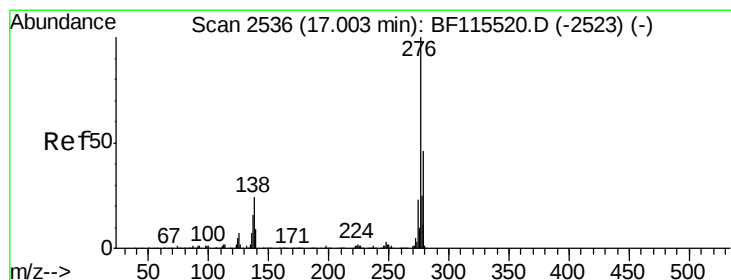
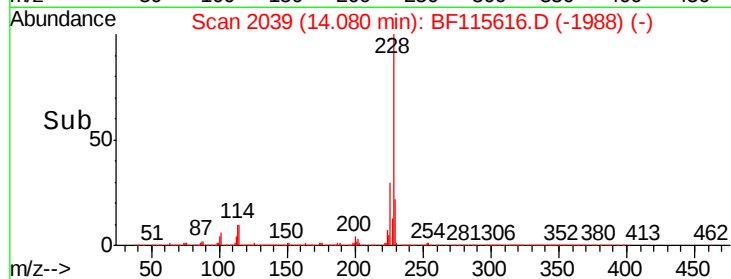
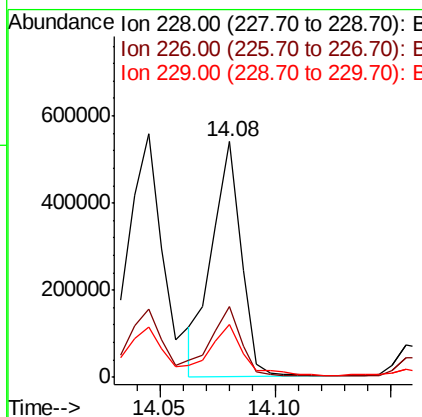
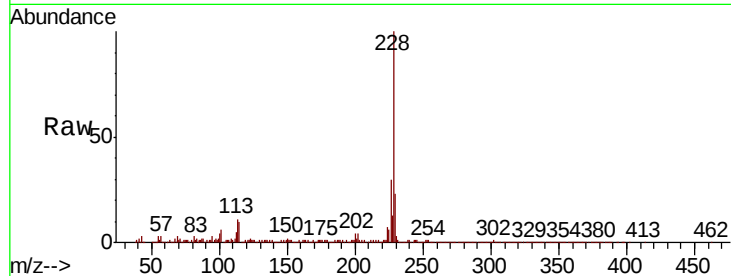
#83
Chrysene
Concen: 21.868 ng
RT: 14.08 min Scan# 2039
Delta R.T. 0.00 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Instrument :
BNA_F
ClientSampleId :
COMP-23

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.7	38.5
229	22.7	16.6	25.0

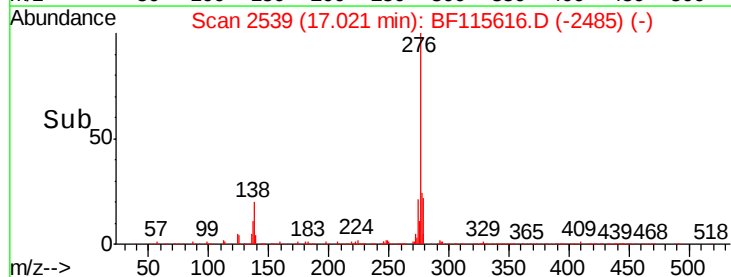
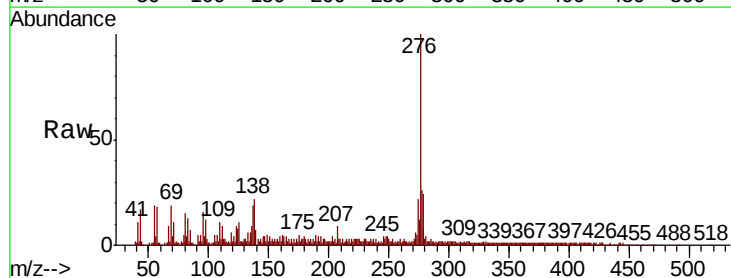
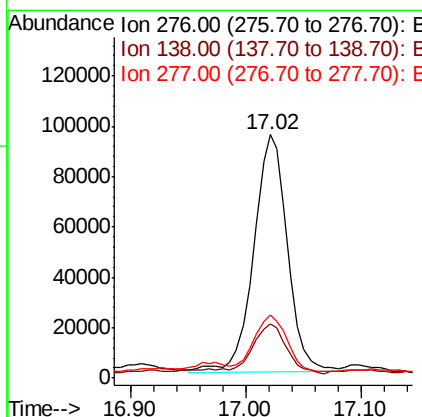
Manual Integrations
APPROVED

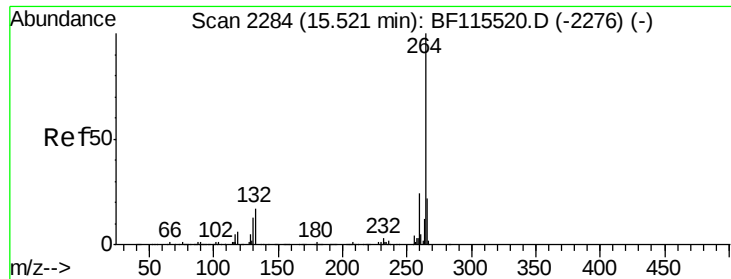
mohammad
7/19/2019 2:26:36 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 10.396 ng
RT: 17.02 min Scan# 2539
Delta R.T. 0.02 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.6	20.2	30.2
277	23.6	20.4	30.6





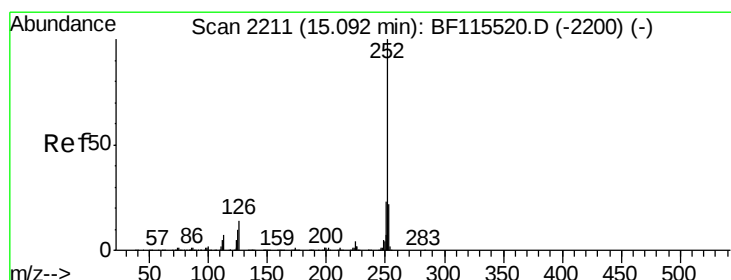
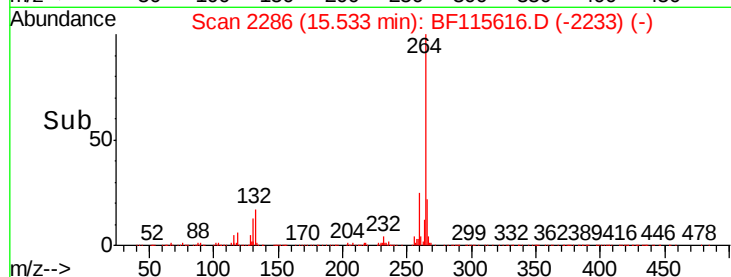
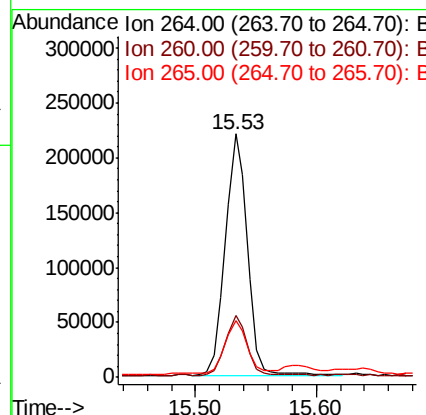
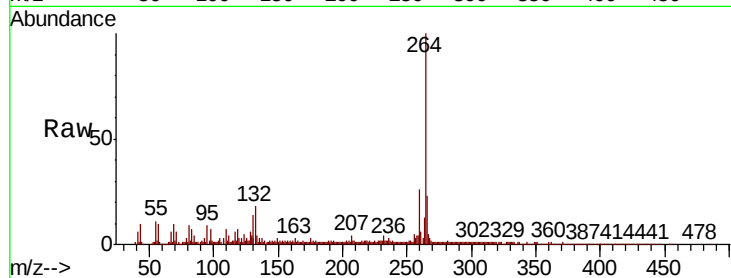
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2286
Delta R.T. 0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Instrument :
BNA_F
ClientSampleId :
COMP-23

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.8	29.8
265	23.4	17.7	26.5

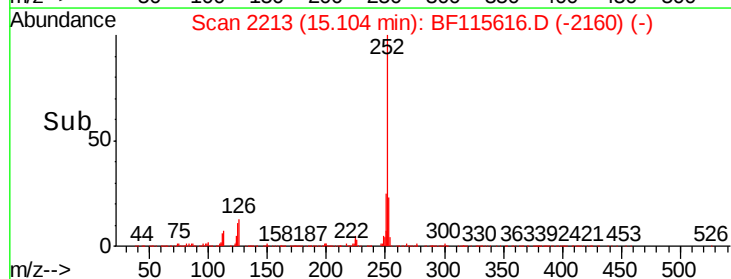
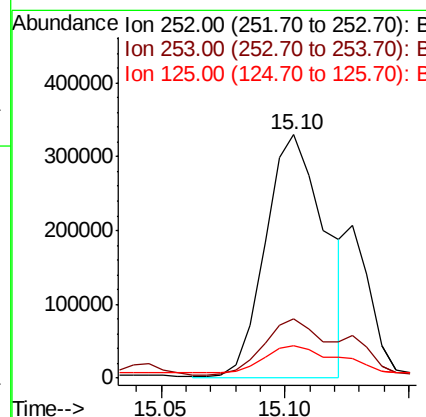
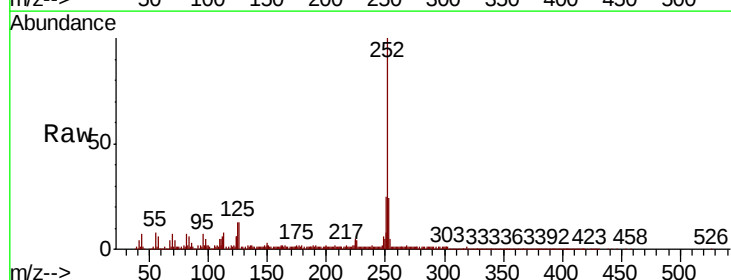
Manual Integrations
APPROVED

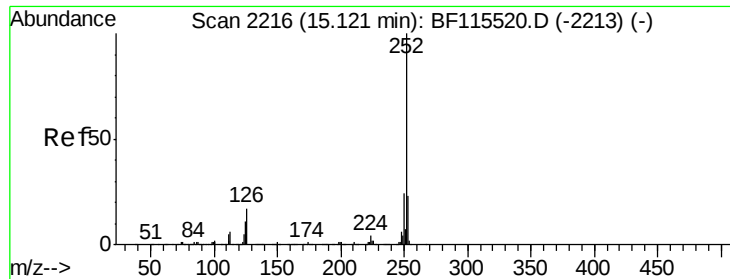
mohammad
7/19/2019 2:26:36 PM



#88
Benzo(b)fluoranthene
Concen: 31.153 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.1	27.1
125	13.3	9.0	13.4





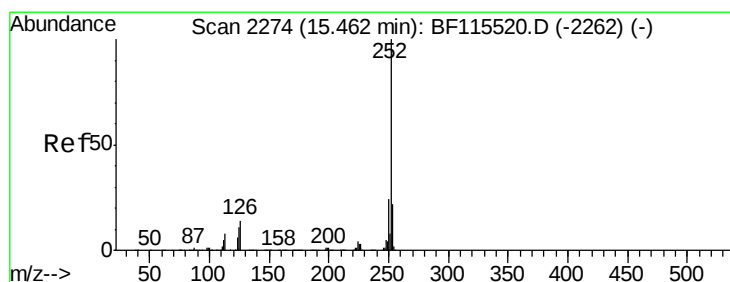
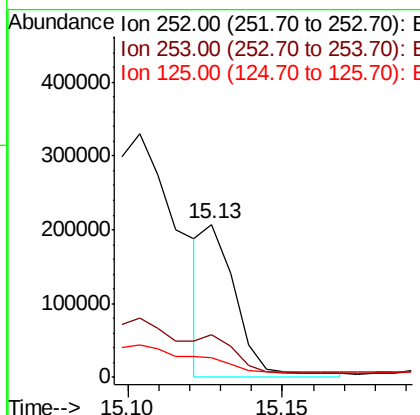
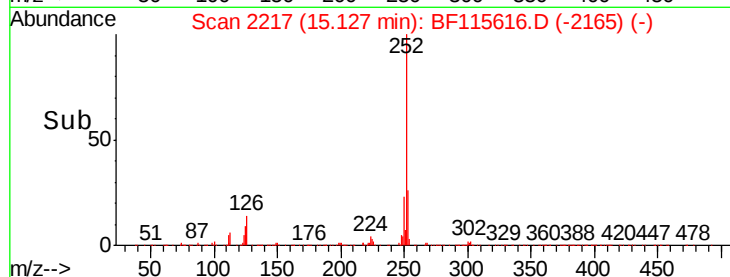
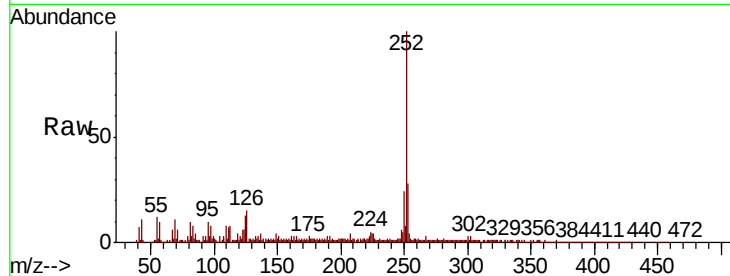
#89
Benzo(k)fluoranthene
Concen: 9.530 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Instrument :
BNA_F
ClientSampleId :
COMP-23

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.7	18.6	28.0
125	13.0	9.0	13.6

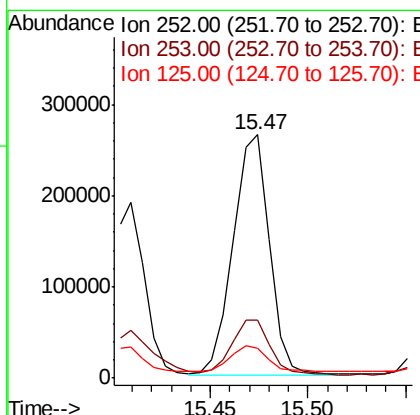
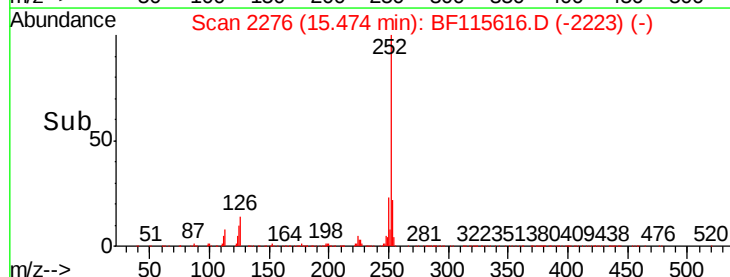
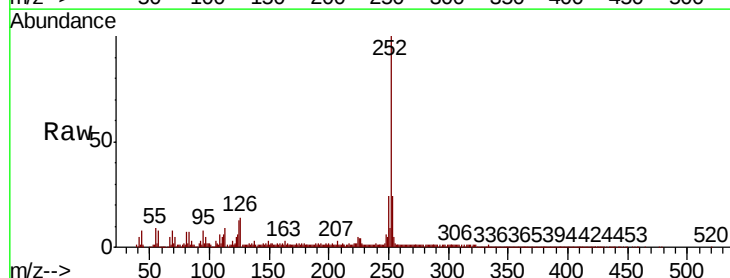
Manual Integrations
APPROVED

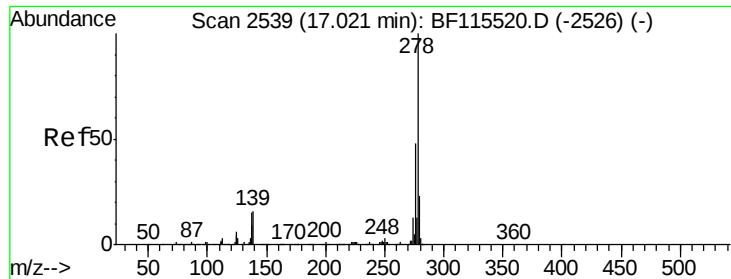
mohammad
7/19/2019 2:26:36 PM



#90
Benzo(a)pyrene
Concen: 22.417 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.6
125	12.5	9.1	13.7





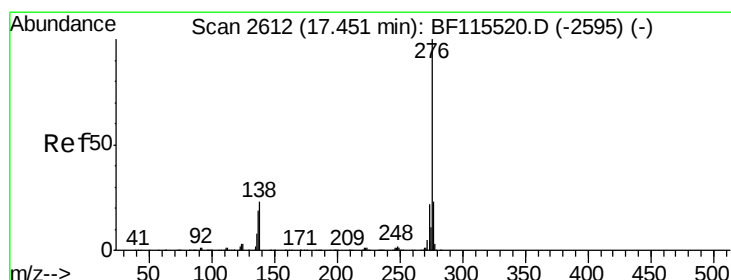
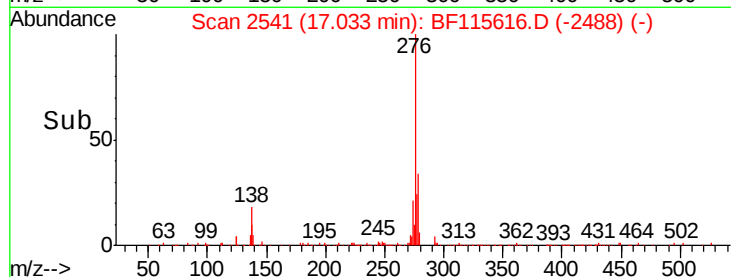
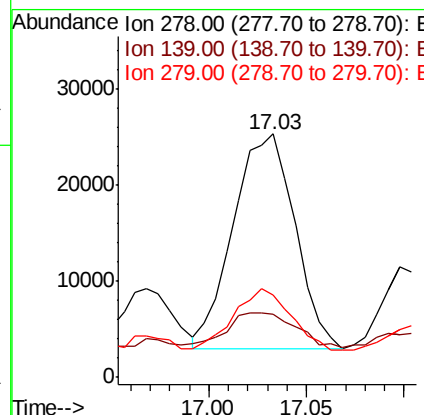
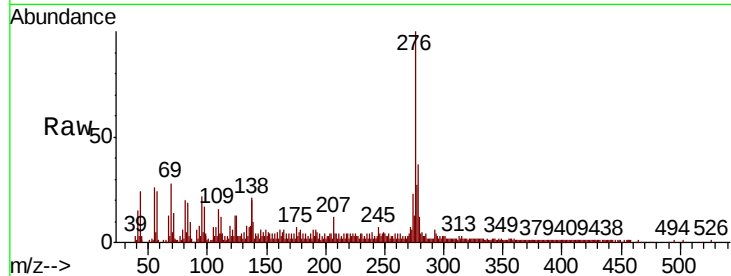
#91
Dibenzo(a,h)anthracene
Concen: 3.632 ng
RT: 17.03 min Scan# 2541
Delta R.T. 0.01 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Instrument :
BNA_F
ClientSampleId :
COMP-23

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.2	13.1	19.7#
279	34.1	19.6	29.4#

Manual Integrations
APPROVED

mohammad
7/19/2019 2:26:36 PM



#92
Benzo(g,h,i)perylene
Concen: 13.469 ng
RT: 17.47 min Scan# 2616
Delta R.T. 0.02 min
Lab File: BF115616.D
Acq: 16 Jul 2019 23:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.0	28.4
138	22.4	17.2	25.8

