

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
 Data File : BF116757.D
 Acq On : 1 Sep 2019 21:51
 Operator : HP/JU
 Sample : K4618-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-18-20

Manual Integrations
 APPROVED

mohammad
 9/5/2019 9:54:59 AM

Quant Time: Sep 02 06:53:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	66409	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	285808	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	174162	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	305278	20.00	ng	0.00
76) Chrysene-d12	14.00	240	186030	20.00	ng	0.00
87) Perylene-d12	15.46	264	185734	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	495310	120.83	ng	0.00
7) Phenol-d6	6.47	99	673911	125.20	ng	0.00
23) Nitrobenzene-d5	7.40	82	415155	82.92	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	149800	128.66	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	682195	66.08	ng	0.00
79) Terphenyl-d14	12.94	244	643870	64.03	ng	0.00
Target Compounds						
10) Phenol	6.49	94	61441	10.308	ng	91
31) Naphthalene	8.15	128	35211	2.591	ng	97
50) Dimethylphthalate	9.59	163	94461	7.856	ng	98
71) Phenanthrene	11.39	178	79055	4.652	ng	97
75) Fluoranthene	12.57	202	76246	4.565	ng	95
78) Pyrene	12.80	202	221047	13.367	ng	98
81) Benzo(a)anthracene	13.99	228	352599	29.948	ng	# 95
83) Chrysene	14.02	228	375257	30.937	ng	# 90
86) Indeno(1,2,3-cd)pyrene	16.90	276	100024	10.266	ng	# 83
88) Benzo(b)fluoranthene	15.03	252	212968m	18.966	ng	
90) Benzo(a)pyrene	15.40	252	296557	30.355	ng	96
91) Dibenzo(a,h)anthracene	16.92	278	89819	10.503	ng	# 70
92) Benzo(a,h,i)perylene	17.35	276	199927	22.924	ng	# 91

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

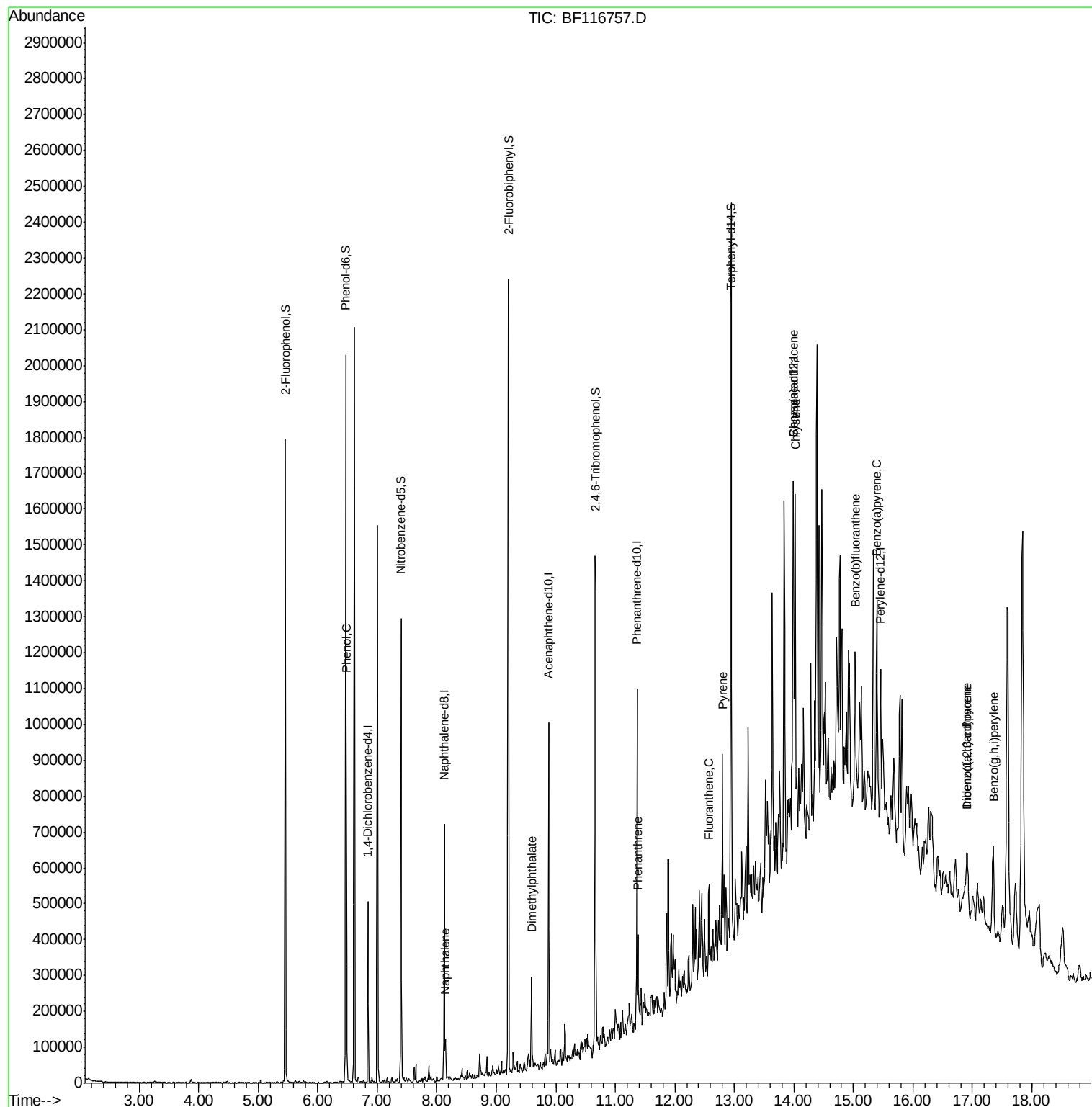
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090119\
Data File : BF116757.D
Acq On : 1 Sep 2019 21:51
Operator : HP/JU
Sample : K4618-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

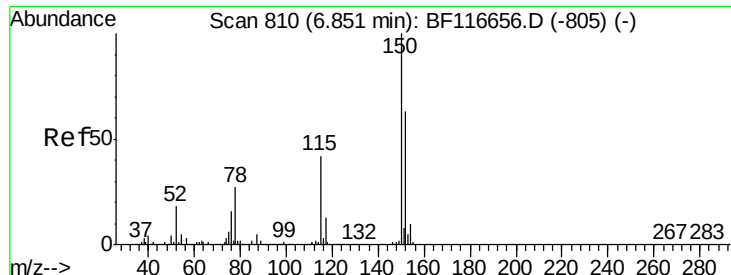
Instrument :
BNA_F
ClientSampled :
SB-4-18-20

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM

Quant Time: Sep 02 06:53:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 30 20:02:30 2019
Response via : Initial Calibration





#1

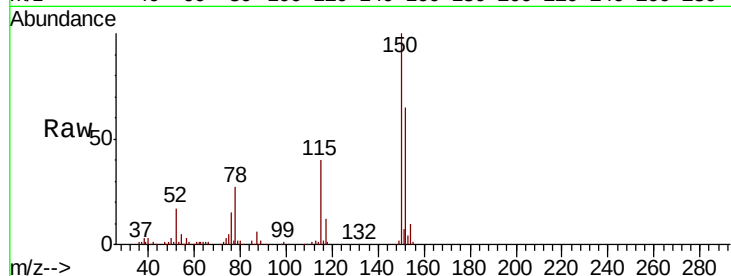
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :
SB-4-18-20

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.4	186.6
115	61.4	49.9	74.9

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM

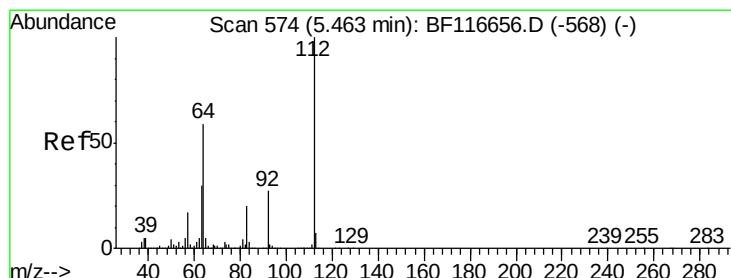
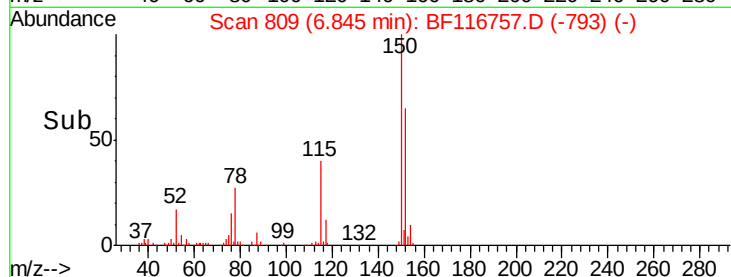
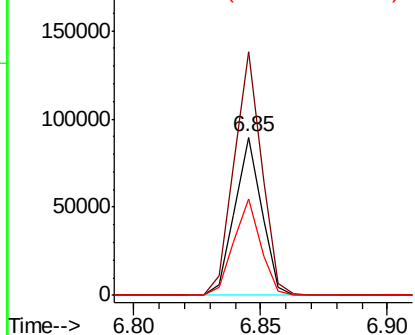


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

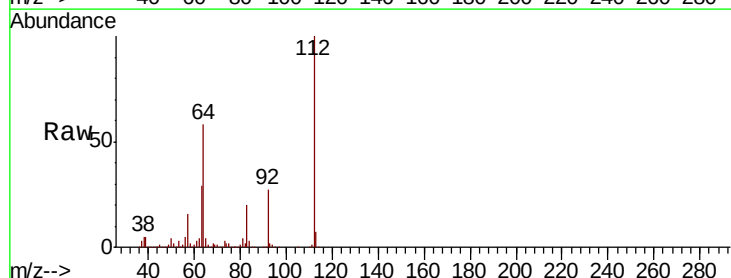
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 120.832 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.1	70.7
63	29.2	24.9	37.3

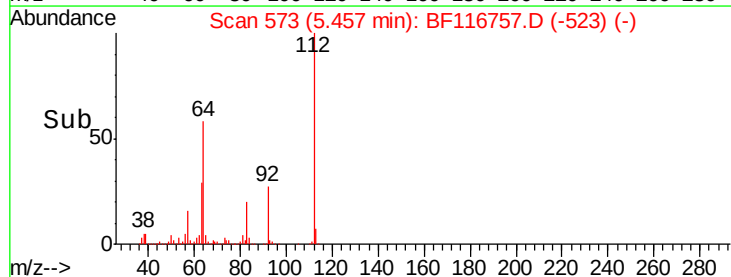
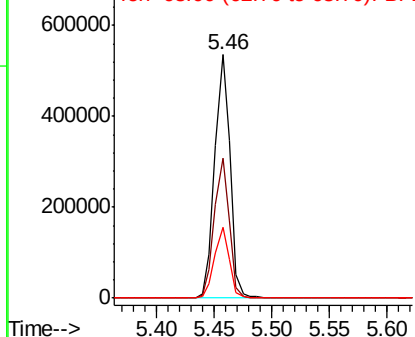


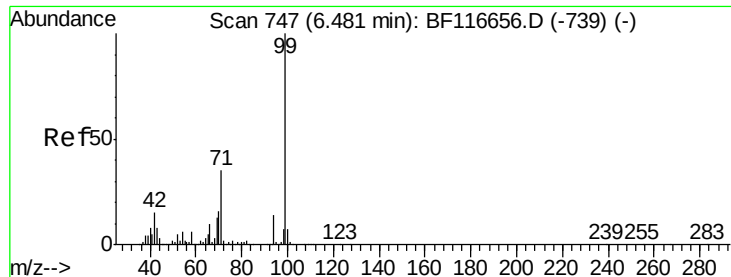
Abundance

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: 125.200 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

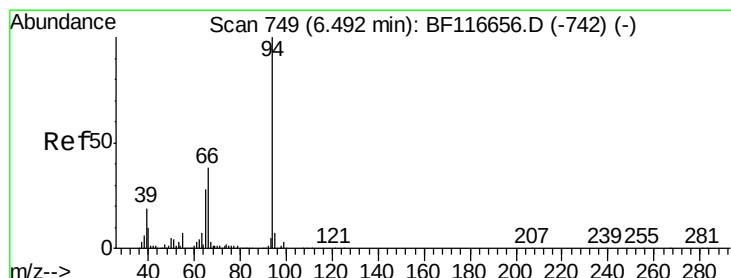
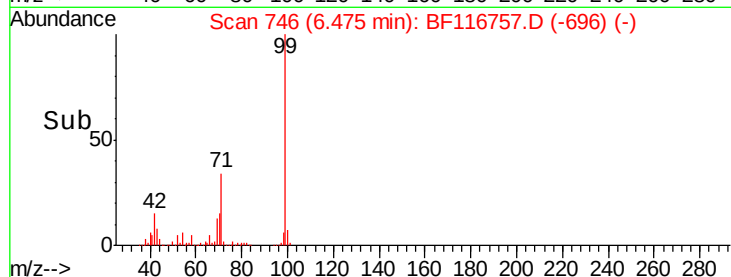
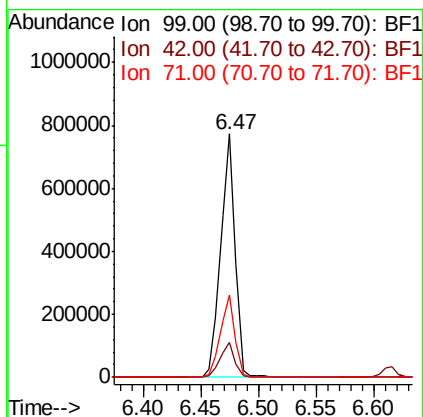
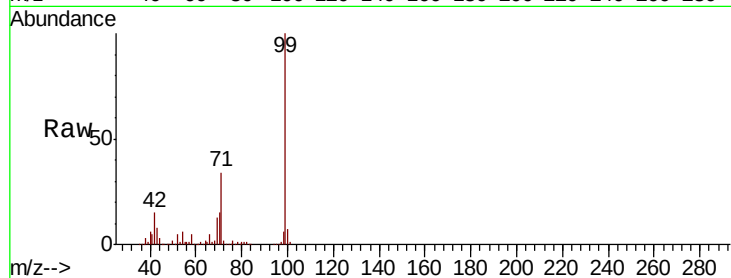
ClientSampleId :

SB-4-18-20

Tot Ion:	99	Resp:	673911
Ion Ratio	Lower	Upper	
99	100		
42	14.6	13.7	20.5
71	34.0	30.8	46.2

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM



#10

Phenol

Concen: 10.308 ng

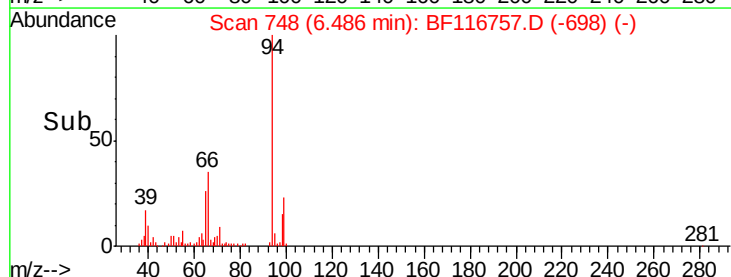
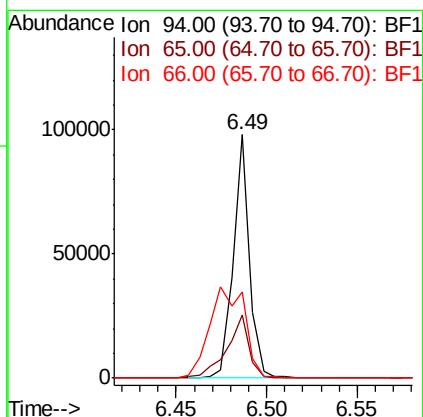
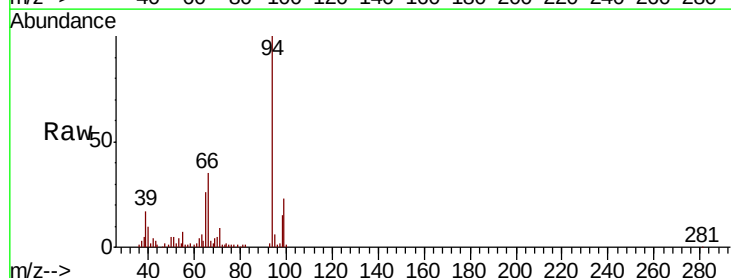
RT: 6.49 min Scan# 748

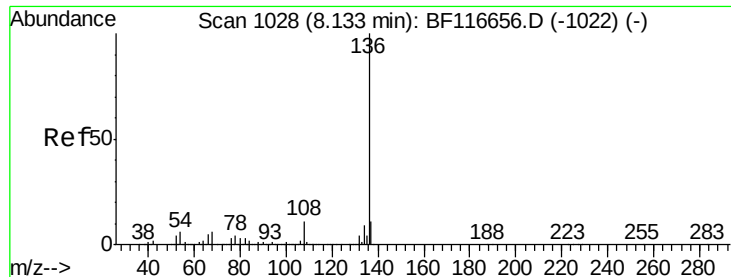
Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Tgt Ion:	94	Resp:	61441
Ion Ratio	Lower	Upper	
94	100		
65	26.1	10.8	50.8
66	35.2	21.1	61.1





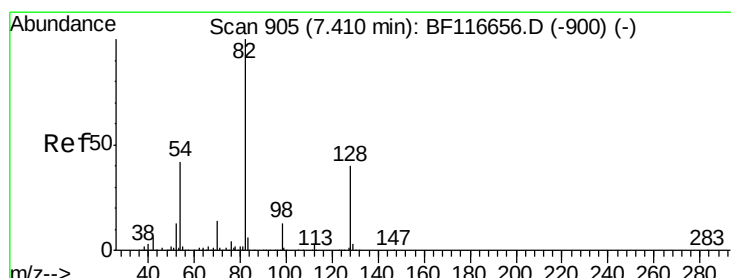
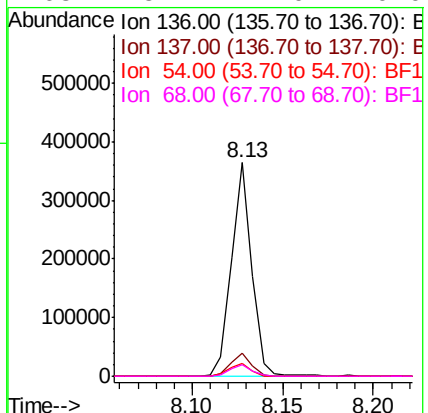
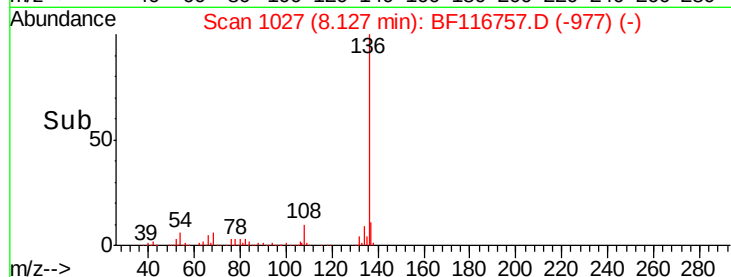
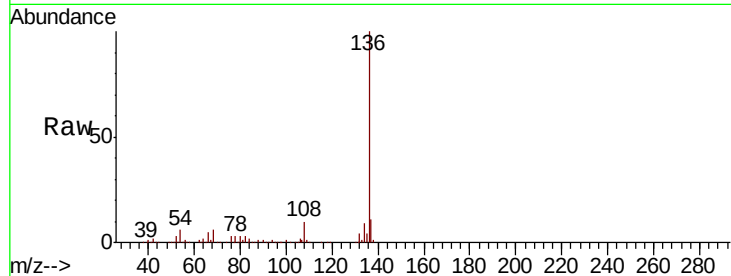
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampled :
SB-4-18-20

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.1	8.9	13.3
54	6.2	4.8	7.2
68	5.7	4.0	6.0

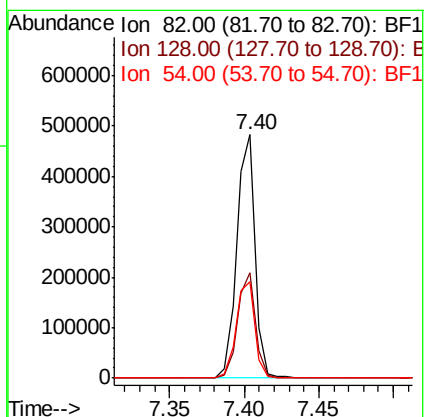
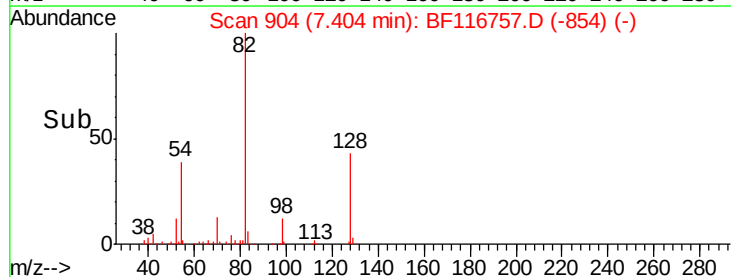
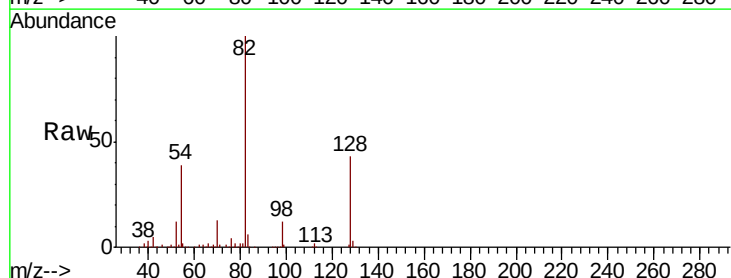
Manual Integrations
APPROVED

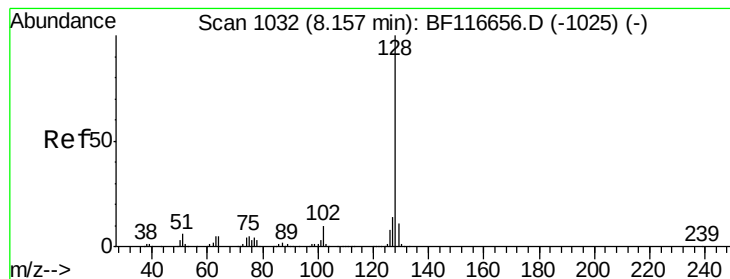
mohammad
9/5/2019 9:54:59 AM



#23
Nitrobenzene-d5
Concen: 82.923 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	43.0	32.8	49.2
54	39.4	36.9	55.3





#31

Naphthalene

Concen: 2.591 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

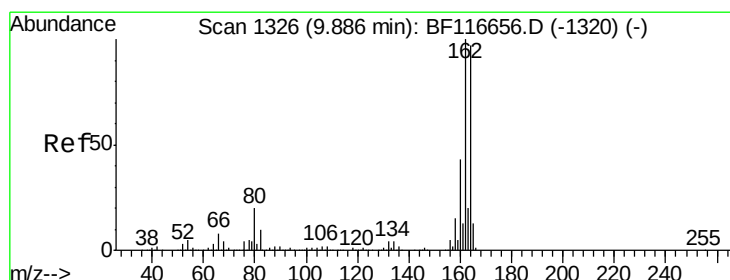
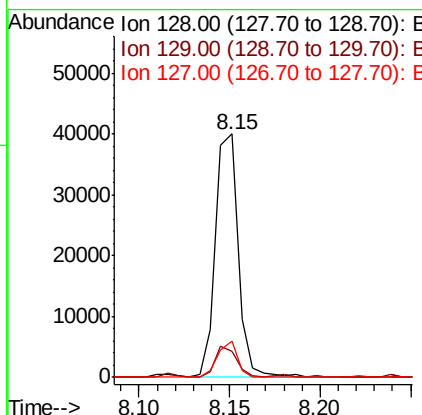
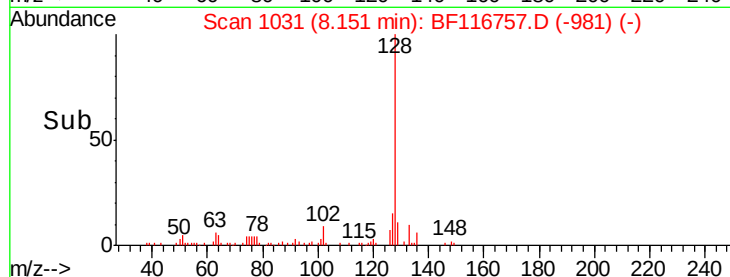
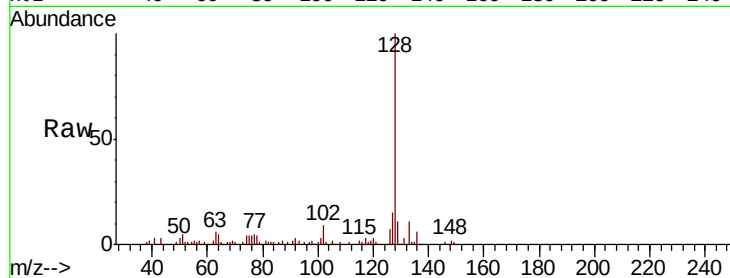
ClientSampled :

SB-4-18-20

Tot Ion:	128	Resp:	35211
Ion Ratio	Lower	Upper	
128	100		
129	10.5	8.6	13.0
127	15.0	10.4	15.6

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM



#39

Acenaphthene-d10

Concen: 20.000 ng

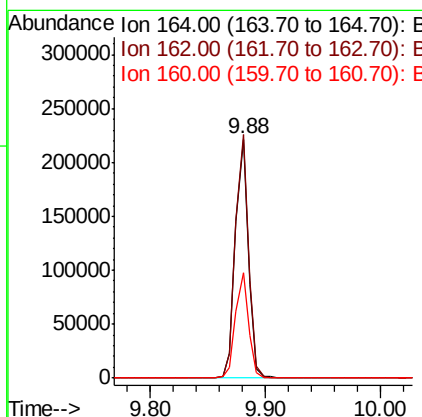
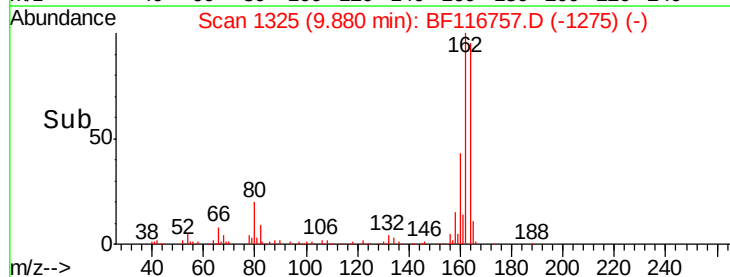
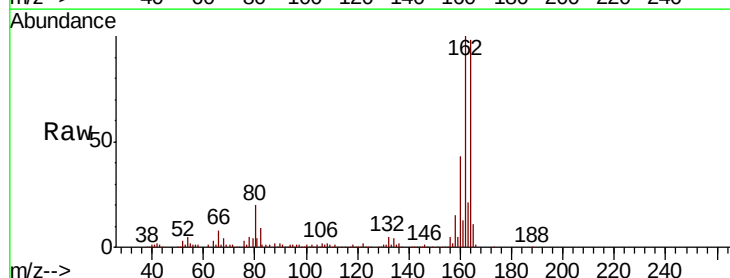
RT: 9.88 min Scan# 1325

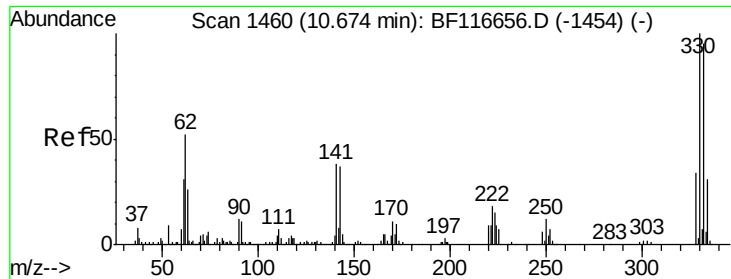
Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Tgt Ion:	164	Resp:	174162
Ion Ratio	Lower	Upper	
164	100		
162	101.8	81.4	122.0
160	44.1	35.4	53.2





#42

2,4,6-Tribromophenol

Concen: 128.660 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

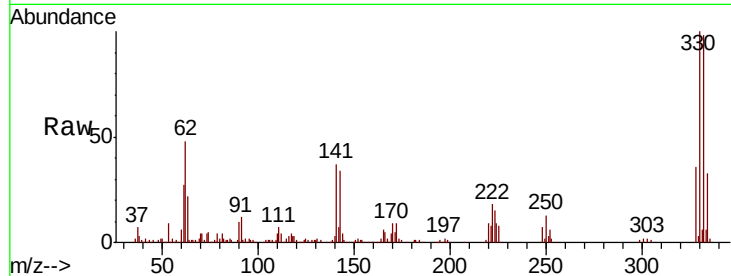
ClientSampleId :

SB-4-18-20

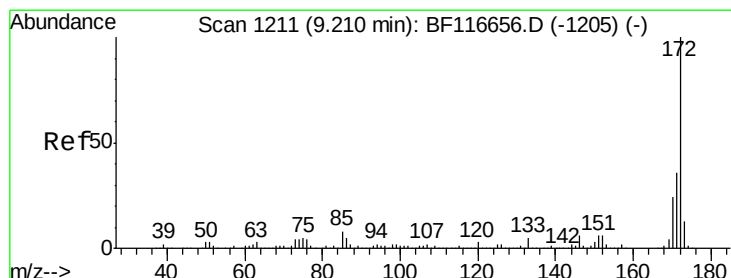
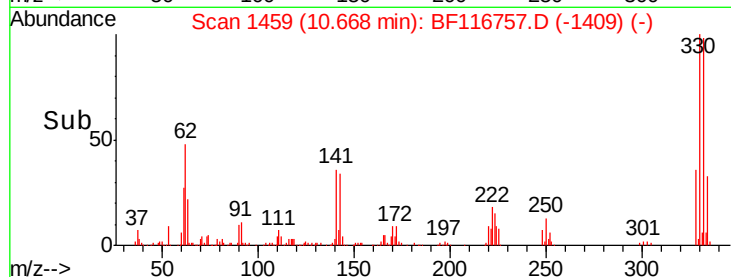
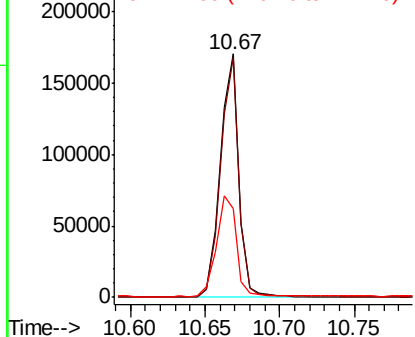
Tot Ion:	330	Resp:	149800
Ion Ratio	Lower	Upper	
330	100		
332	97.2	76.9	115.3
141	44.5	31.4	47.2

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM



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: 66.076 ng

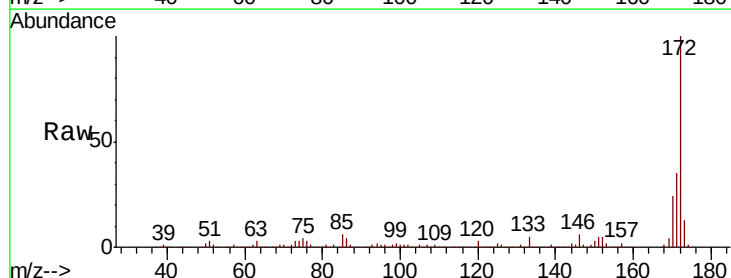
RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

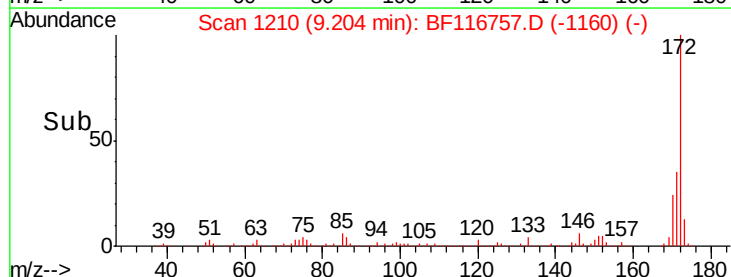
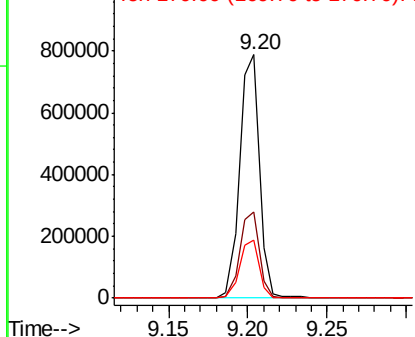
Lab File: BF116757.D

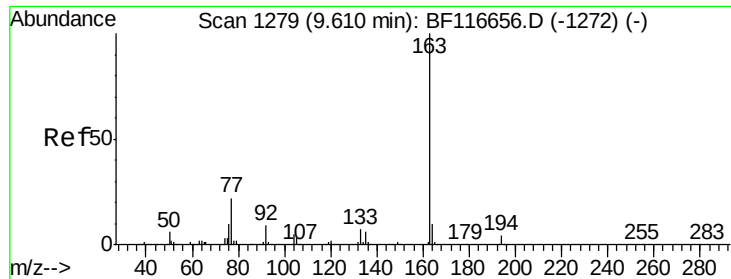
Acq: 1 Sep 2019 21:51

Tgt Ion:	172	Resp:	682195
Ion Ratio	Lower	Upper	
172	100		
171	35.2	27.8	41.6
170	23.8	18.9	28.3



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





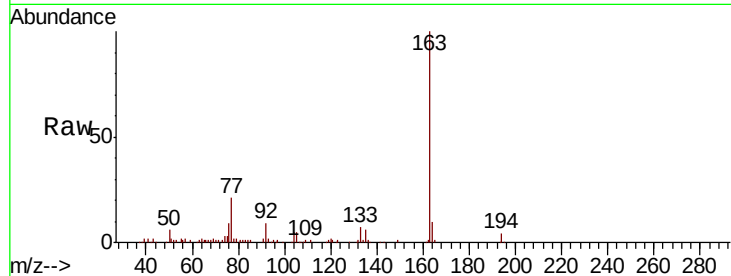
#50
Dimethylphthalate
Concen: 7.856 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :
SB-4-18-20

Tot Ion	Ratio	Resp	Lower	Upper
163	100	94461		
194	3.6	2.8	4.2	
164	9.7	8.6	12.8	

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM

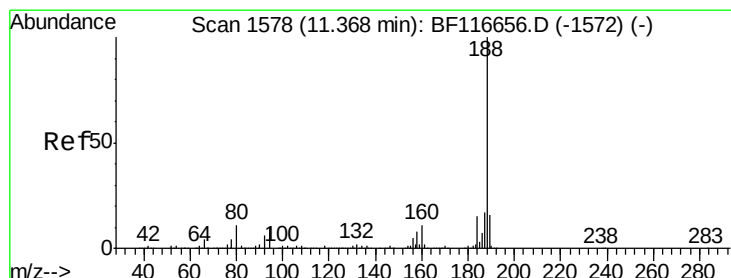
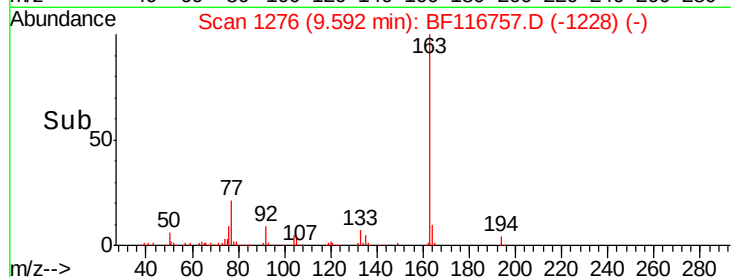
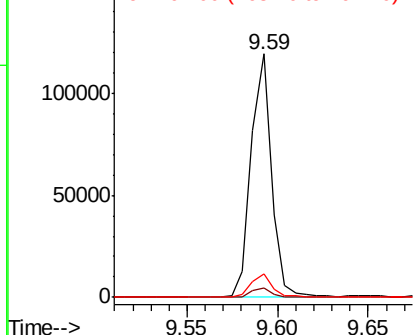


Abundance

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



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

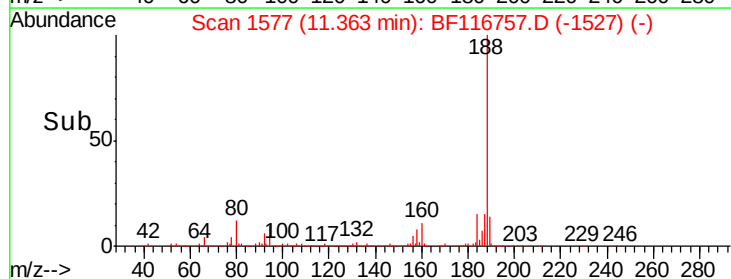
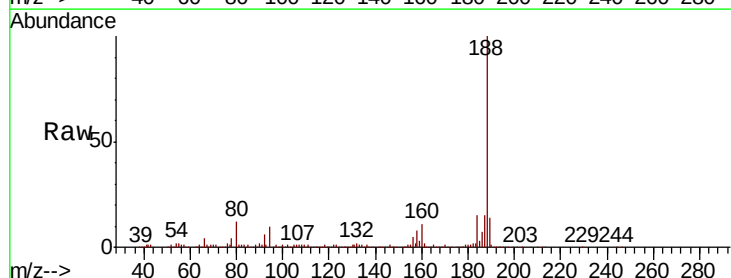
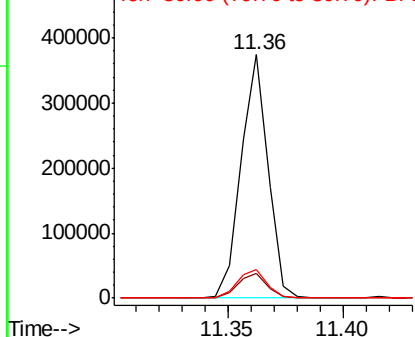
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	305278		
94	10.0	7.3	10.9	
80	12.0	8.4	12.6	

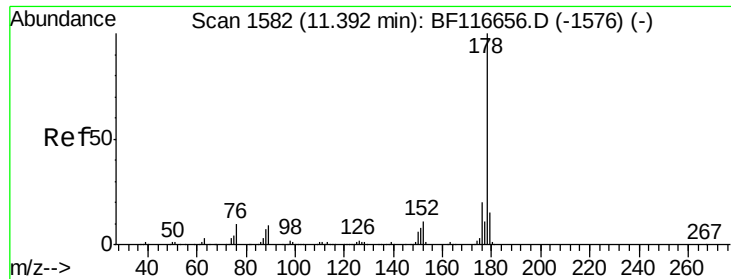
Abundance

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





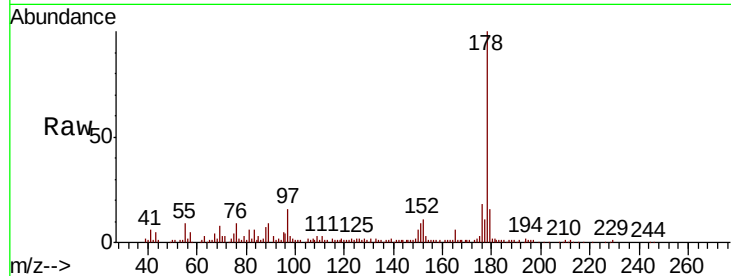
#71
Phenanthrene
Concen: 4.652 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :
SB-4-18-20

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.0
179	16.4	12.2	18.2

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM

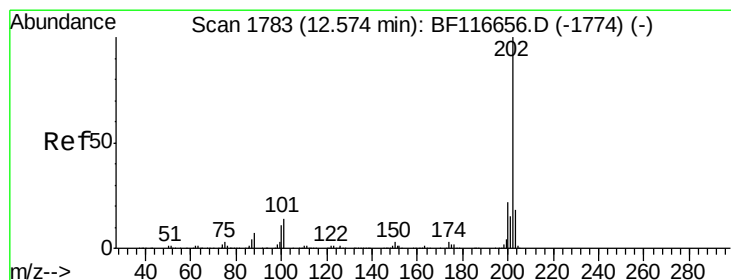
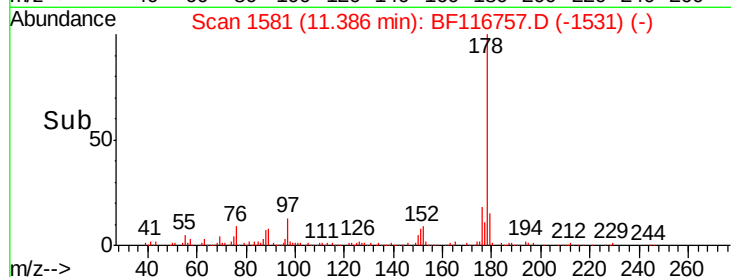
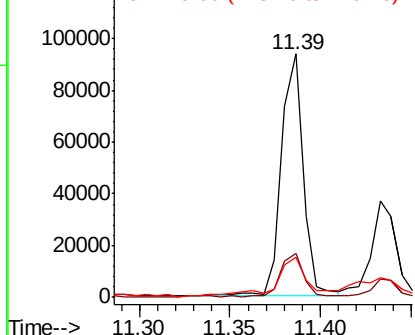


Abundance

Ion 178.00 (177.70 to 178.70): E

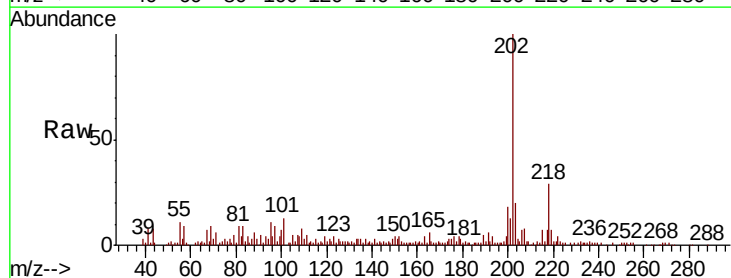
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75
Fluoranthene
Concen: 4.565 ng
RT: 12.57 min Scan# 1783
Delta R.T. 0.00 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	31.3
203	20.2	0.0	37.6

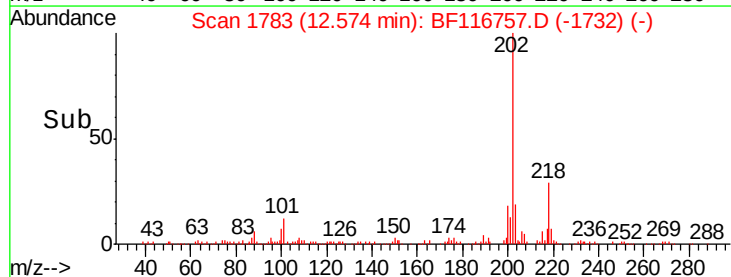
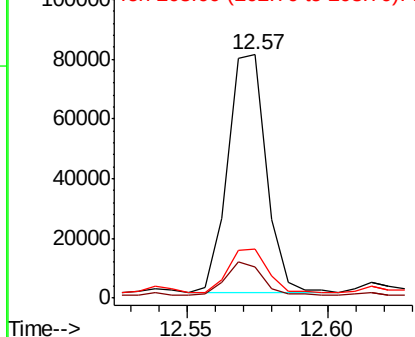


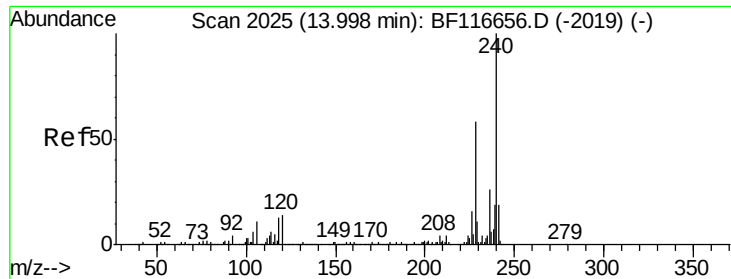
Abundance

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





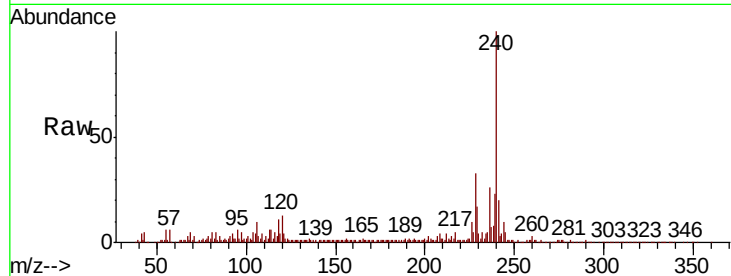
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :
SB-4-18-20

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.1	13.7
236	26.2	21.1	31.7

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM

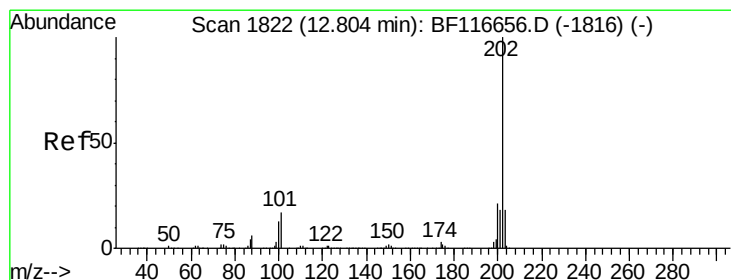
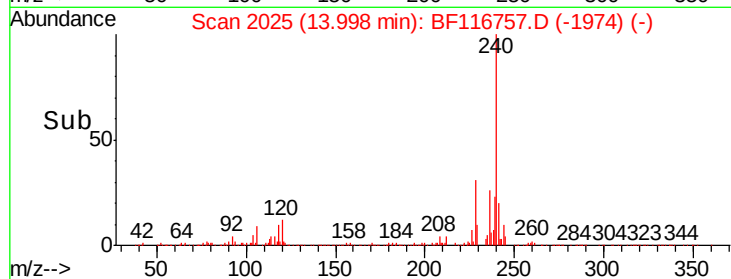
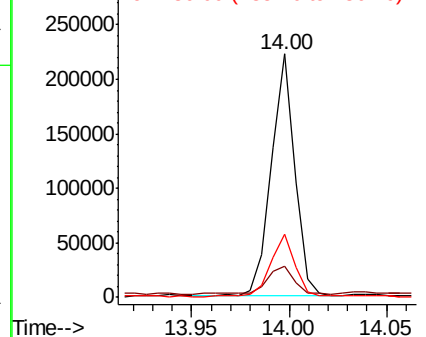


Abundance

Ion 240.00 (239.70 to 240.70): E

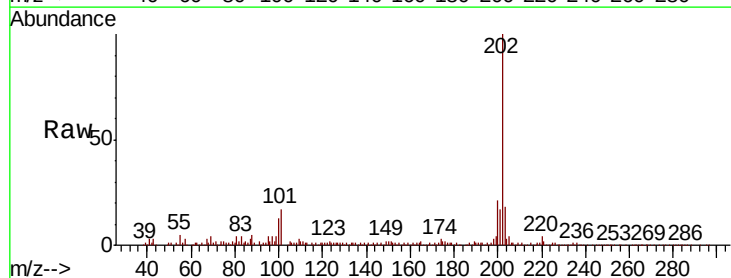
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 13.367 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.5	24.7
203	18.4	13.7	20.5

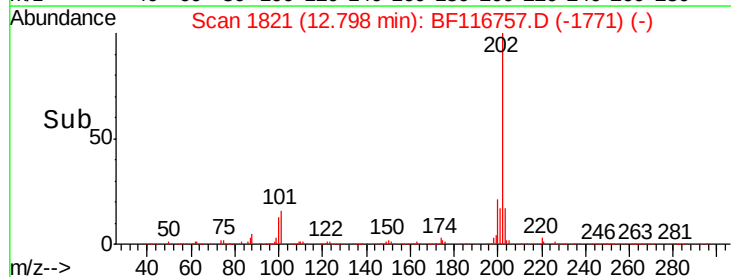
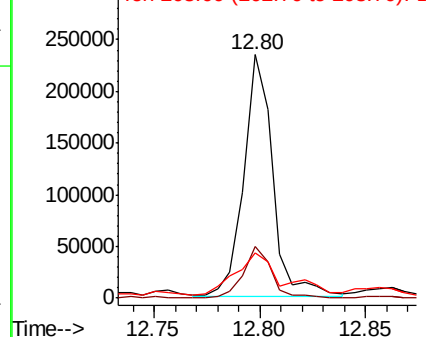


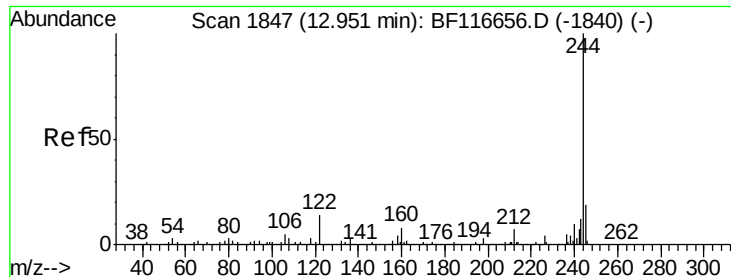
Abundance

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





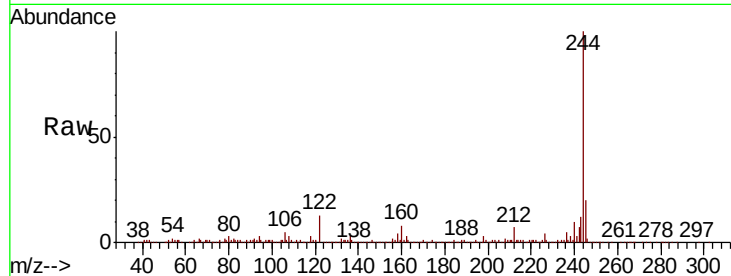
#79
 Terphenyl-d14
 Concen: 64.028 ng
 RT: 12.94 min Scan# 1846
 Delta R.T. -0.01 min
 Lab File: BF116757.D
 Acq: 1 Sep 2019 21:51

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-18-20

Tot Ion	Ratio	Resp	Lower	Upper
244	100	643870		
212	7.1		6.1	9.1
122	13.0		10.2	15.4

Manual Integrations
 APPROVED

mohammad
 9/5/2019 9:54:59 AM

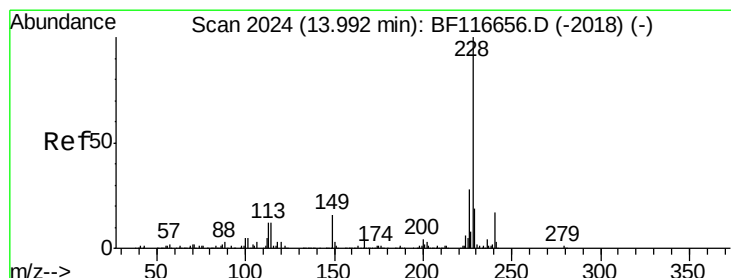
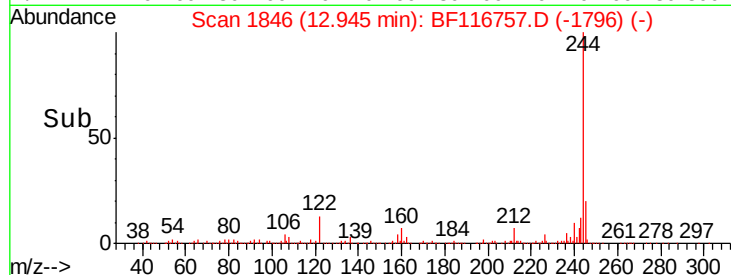
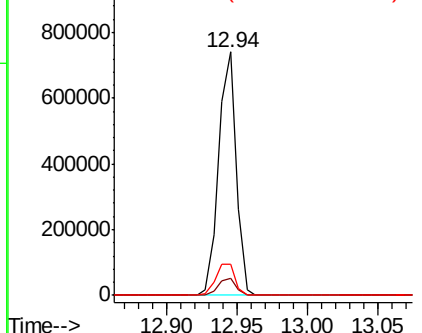


Abundance

Ion 244.00 (243.70 to 244.70): E

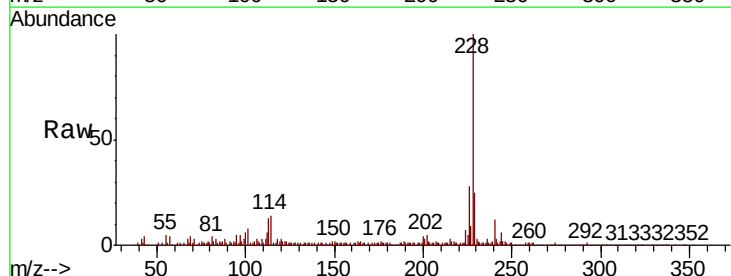
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81
 Benzo(a)anthracene
 Concen: 29.948 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: BF116757.D
 Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	352599		
226	28.0		22.0	33.0
229	25.1		16.4	24.6

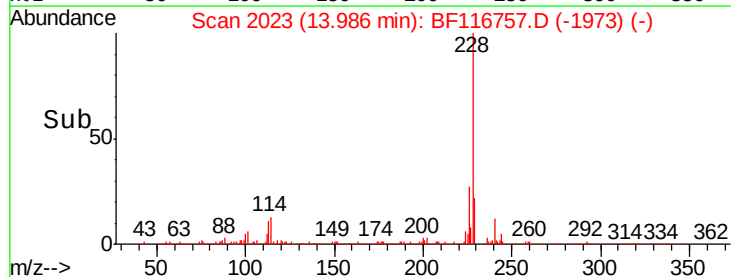
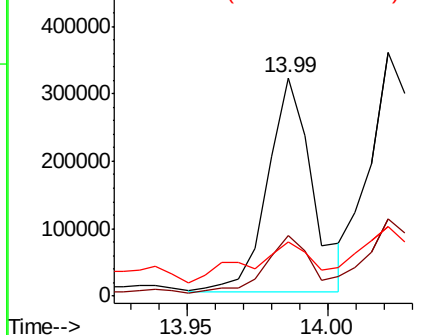


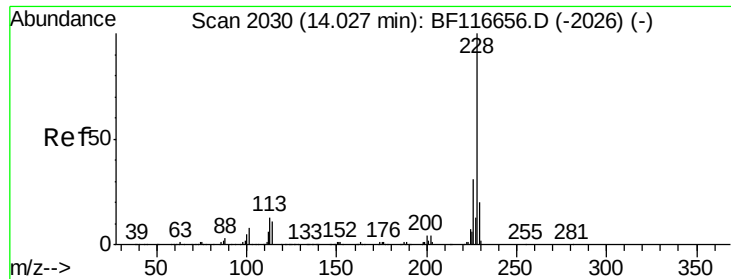
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





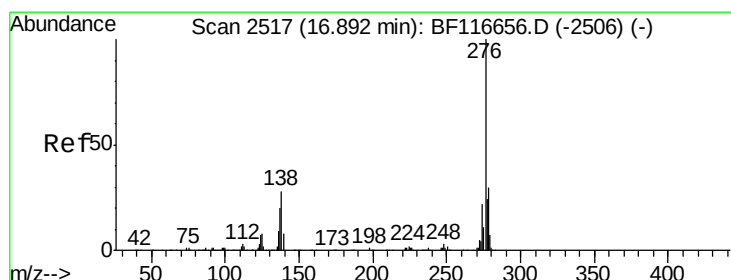
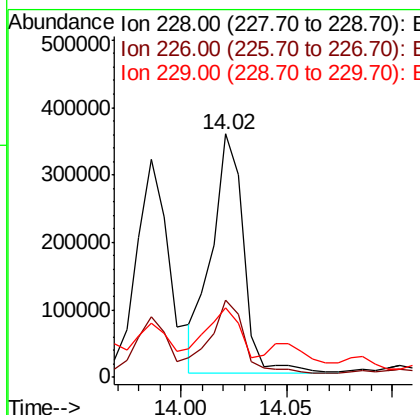
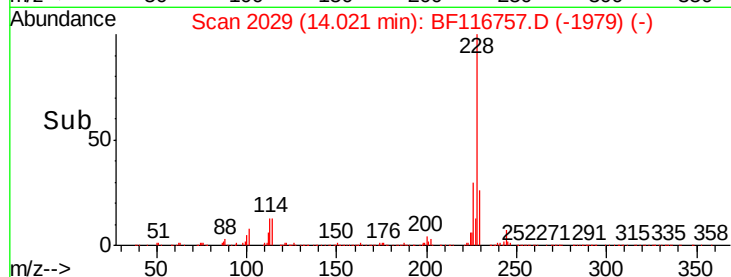
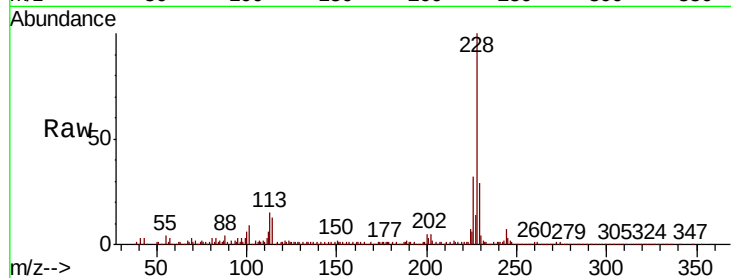
#83
Chrysene
Concen: 30.937 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :
SB-4-18-20

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.0	36.0
229	28.5	15.4	23.0

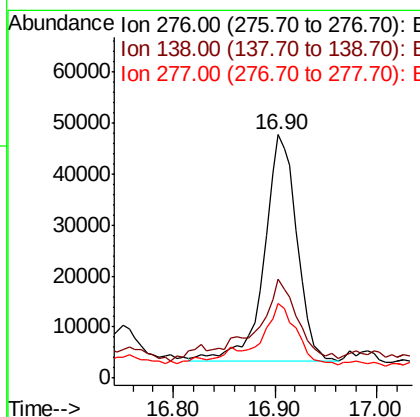
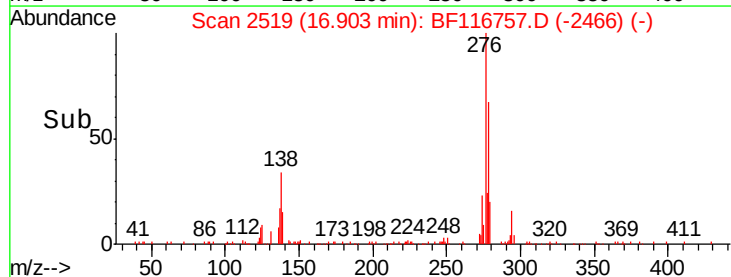
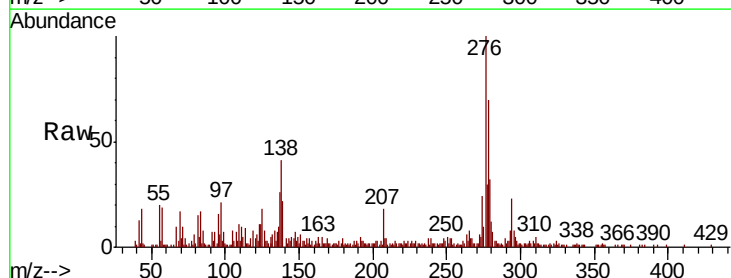
Manual Integrations
APPROVED

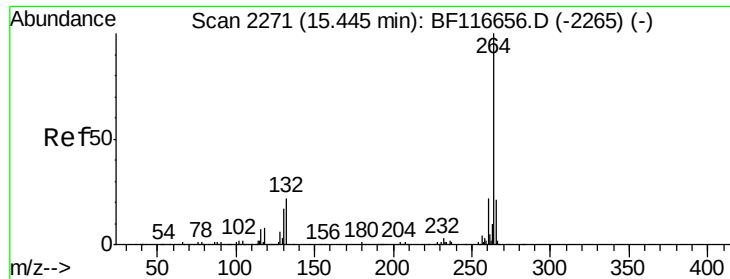
mohammad
9/5/2019 9:54:59 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 10.266 ng
RT: 16.90 min Scan# 2519
Delta R.T. 0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Lower	Upper
276	100		
138	41.4	19.4	29.2
277	26.1	20.5	30.7





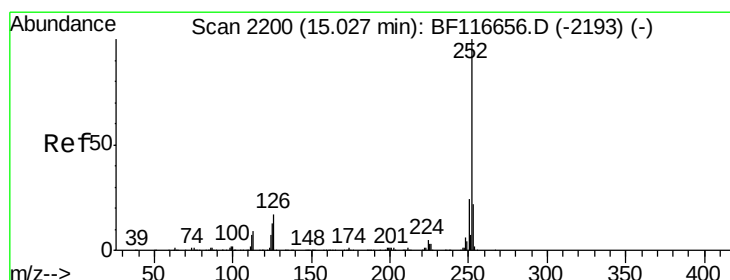
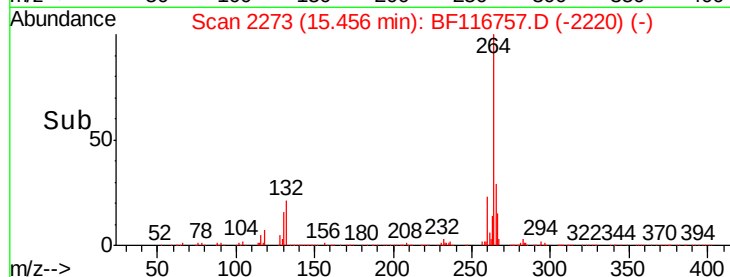
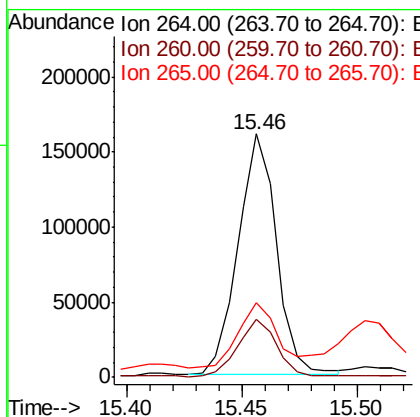
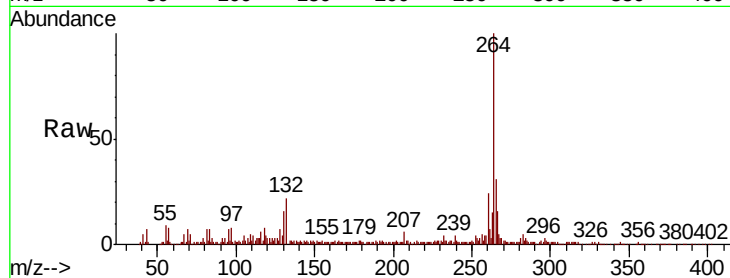
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :
SB-4-18-20

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.3	27.5
265	30.8	16.5	24.7

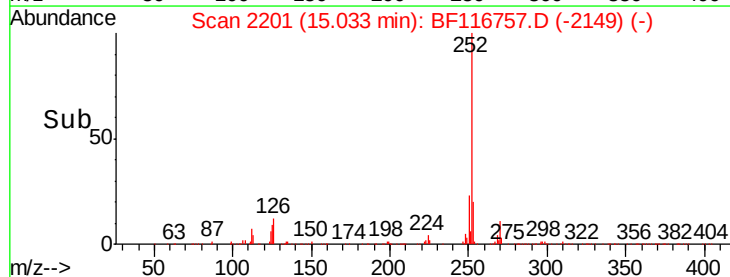
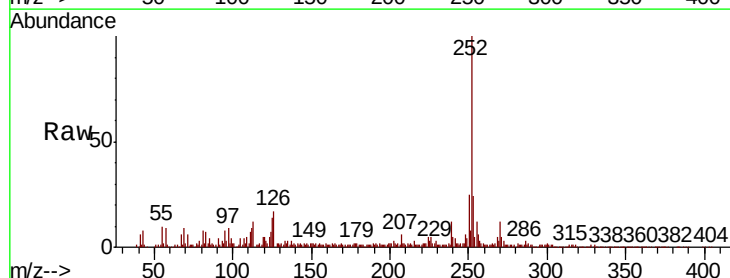
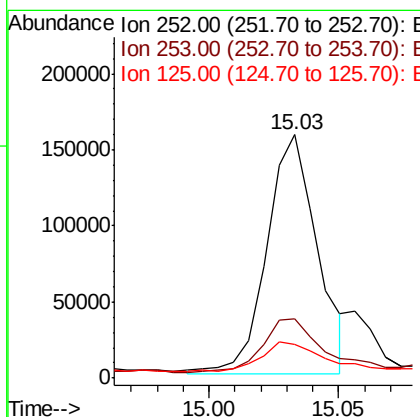
Manual Integrations
APPROVED

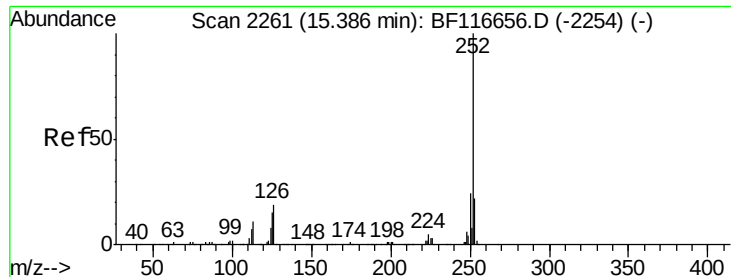
mohammad
9/5/2019 9:54:59 AM



#88
Benzo(b)fluoranthene
Concen: 18.966 ng m
RT: 15.03 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.7	26.5
125	13.8	8.2	12.2





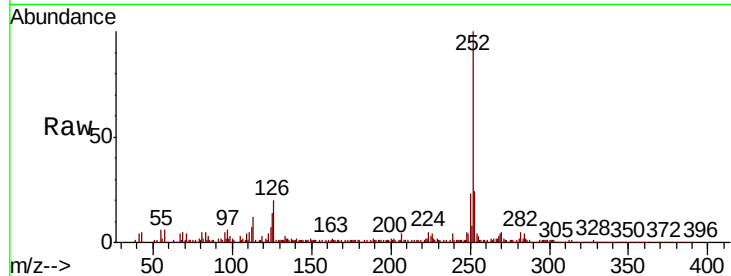
#90
Benzo(a)pyrene
Concen: 30.355 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

Instrument :
BNA_F
ClientSampleId :
SB-4-18-20

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.2	18.1	27.1
125	14.4	9.8	14.8

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM

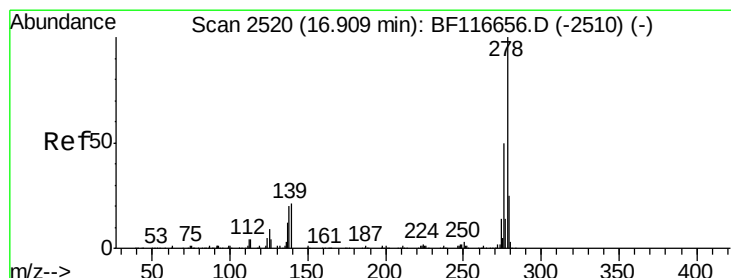
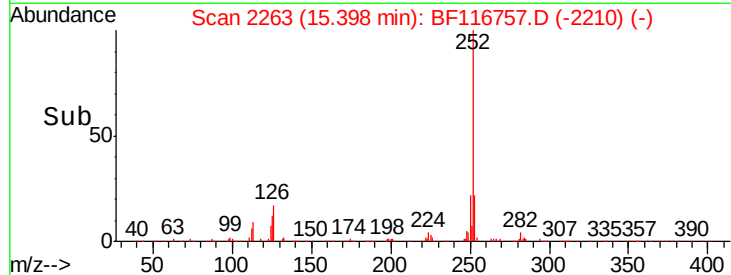
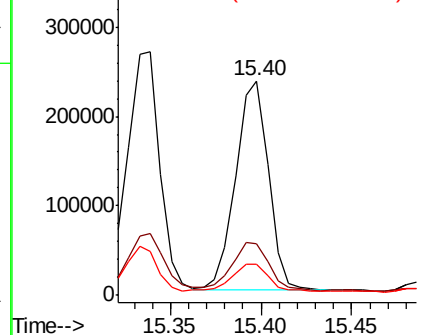


Abundance

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



#91
Dibenzo(a,h)anthracene
Concen: 10.503 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.01 min
Lab File: BF116757.D
Acq: 1 Sep 2019 21:51

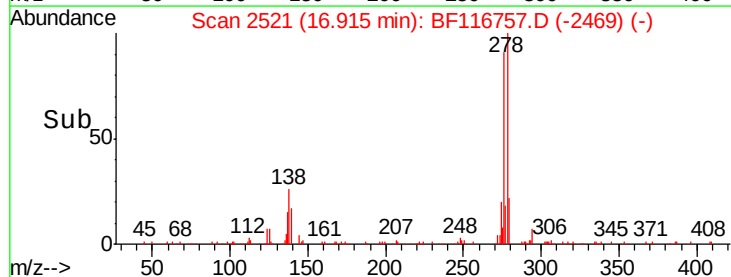
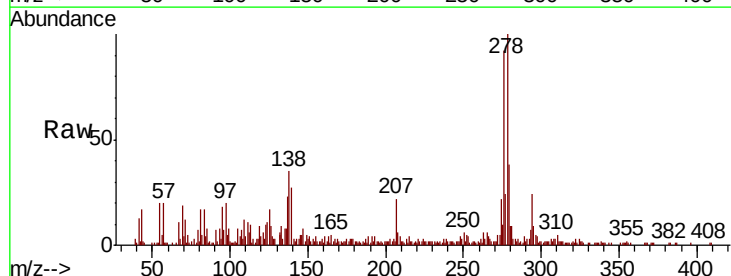
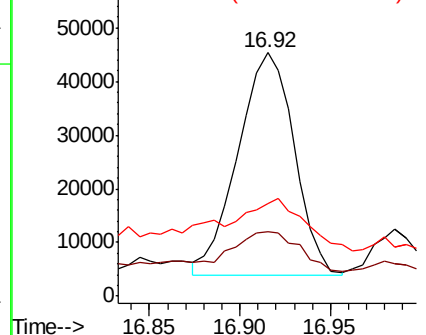
Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	26.7	12.4	18.6#
279	38.2	18.2	27.4#

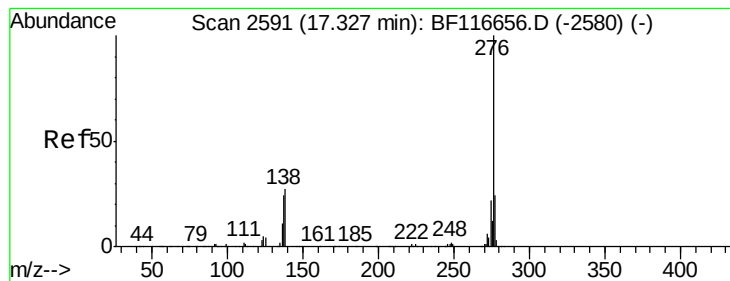
Abundance

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(a,h,i)perylene

Concen: 22.924 ng

RT: 17.35 min Scan# 2595

Delta R.T. 0.02 min

Lab File: BF116757.D

Acq: 1 Sep 2019 21:51

Instrument :

BNA_F

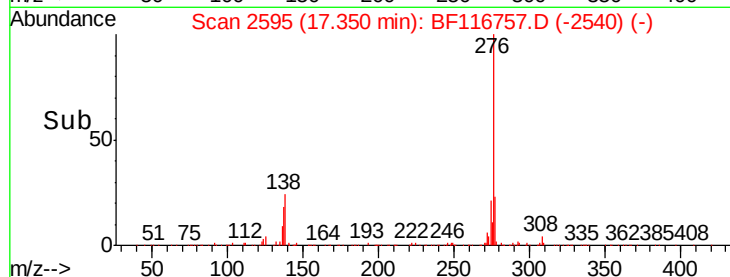
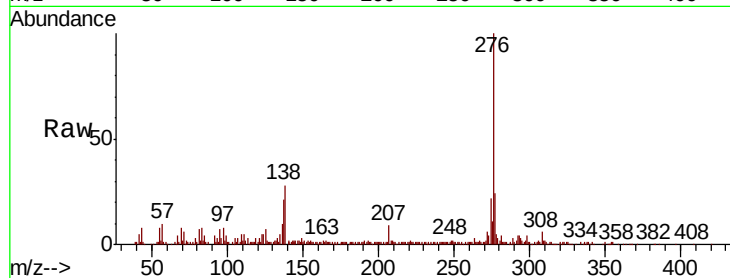
ClientSampleId :

SB-4-18-20

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.5	27.7
138	27.7	16.2	24.2

Manual Integrations
APPROVED

mohammad
9/5/2019 9:54:59 AM



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

