

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070219\
 Data File : BF115361.D
 Acq On : 2 Jul 2019 16:00
 Operator : HP/JU
 Sample : K3606-02DL 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-COMP-1DL

Manual Integrations
 APPROVED

mohammad
 7/3/2019 10:51:36 PM

Quant Time: Jul 02 16:33:59 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 02 16:24:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	192749	20.00	ng	0.00
21) Naphthalene-d8	7.89	136	779020	20.00	ng	0.00
39) Acenaphthene-d10	9.64	164	388667	20.00	ng	0.00
64) Phenanthrene-d10	11.11	188	763817	20.00	ng	0.00
76) Chrysene-d12	13.74	240	446114	20.00	ng	-0.01
87) Perylene-d12	15.12	264	503963	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	172377	13.80	ng	0.00
7) Phenol-d6	6.24	99	232370	15.33	ng	-0.02
23) Nitrobenzene-d5	7.16	82	128771	10.17	ng	-0.02
42) 2,4,6-Tribromophenol	10.42	330	59055	14.41	ng	-0.01
45) 2-Fluorobiphenyl	8.97	172	295393	12.91	ng	-0.01
79) Terphenyl-d14	12.70	244	313039	14.92	ng	0.00
Target Compounds						
71) Phenanthrene	11.14	178	791757	19.252	ng	97
72) Anthracene	11.19	178	270994	6.528	ng	97
75) Fluoranthene	12.32	202	1437317	35.029	ng	99
78) Pyrene	12.55	202	1399561	40.822	ng	98
81) Benzo(a)anthracene	13.74	228	582876	18.209	ng	99
83) Chrysene	13.77	228	505238	17.231	ng	97
86) Indeno(1,2,3-cd)pyrene	16.39	276	313840	9.045	ng	95
88) Benzo(b)fluoranthene	14.74	252	665004m	21.148	ng	
89) Benzo(k)fluoranthene	14.77	252	151676m	5.379	ng	
90) Benzo(a)pyrene	15.07	252	494211	17.437	ng	98
91) Dibenzo(a,h)anthracene	16.41	278	77454m	2.927	ng	
92) Benzo(a,h,i)perylene	16.78	276	283939	10.603	ng	99

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

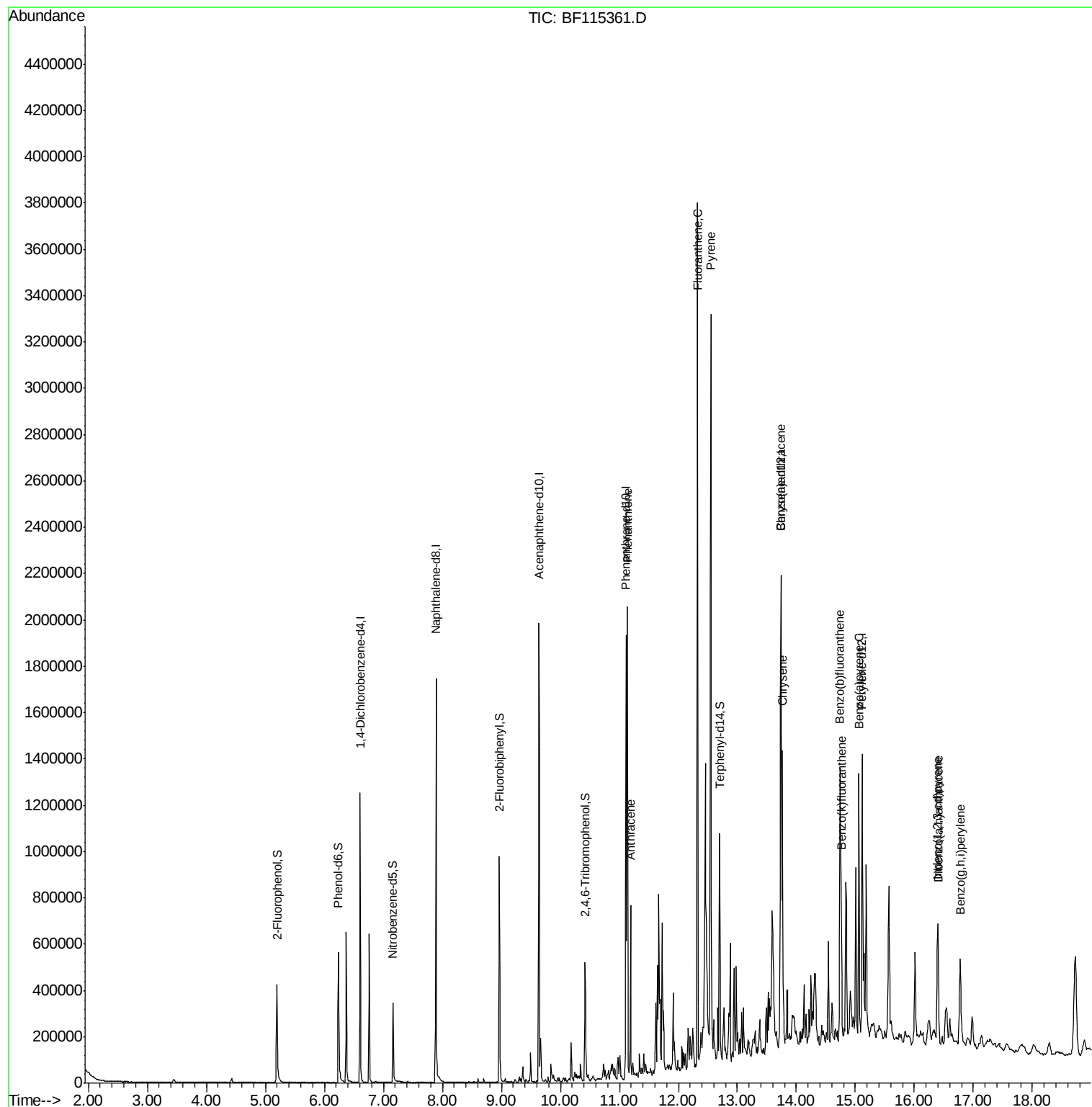
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070219\
Data File : BF115361.D
Acq On : 2 Jul 2019 16:00
Operator : HP/JU
Sample : K3606-02DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

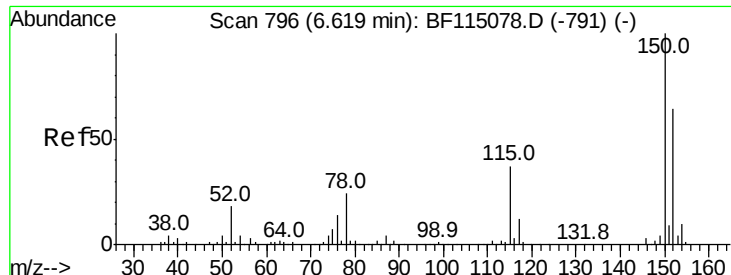
Instrument :
BNA_F
ClientSampleId :
HJDC-COMP-1DL

Manual Integrations
APPROVED

mohammad
7/3/2019 10:51:36 PM

Quant Time: Jul 02 16:33:59 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 02 16:24:08 2019
Response via : Initial Calibration





#1

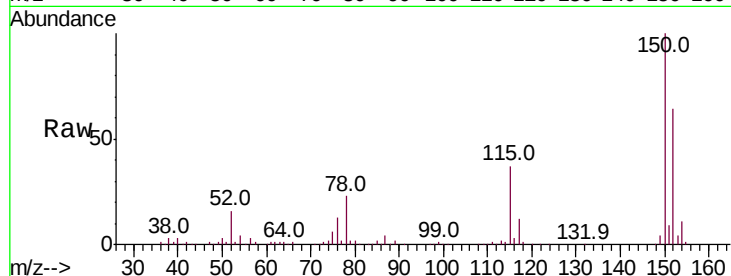
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.61 min Scan# 794
Delta R.T. 0.00 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Instrument :
BNA_F
ClientSampleId :
HJDC-COMP-1DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	125.1	187.7
115	57.0	47.3	70.9

Manual Integrations
APPROVED

mohammad
7/3/2019 10:51:36 PM

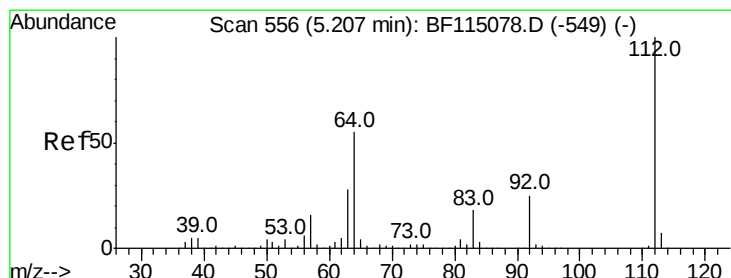
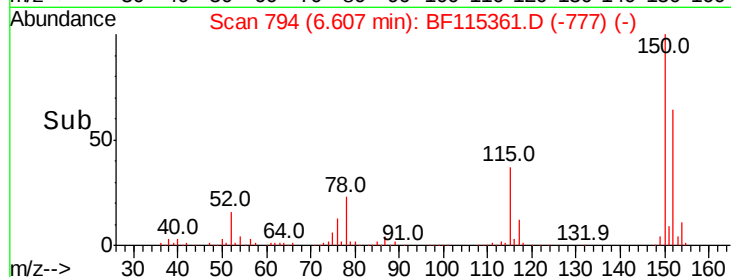
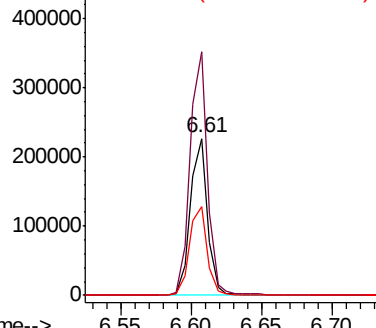


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

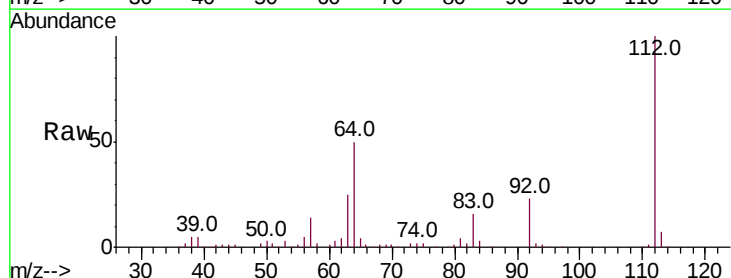
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 13.801 ng
RT: 5.20 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.3	43.8	65.6
63	24.9	22.5	33.7

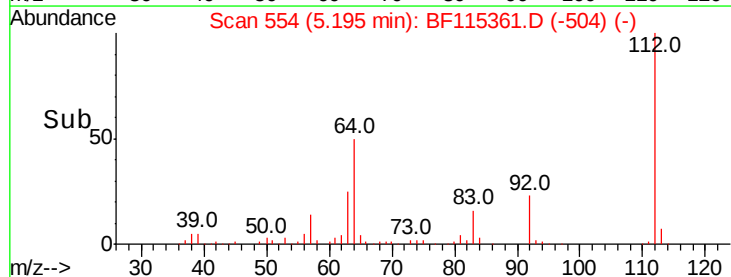
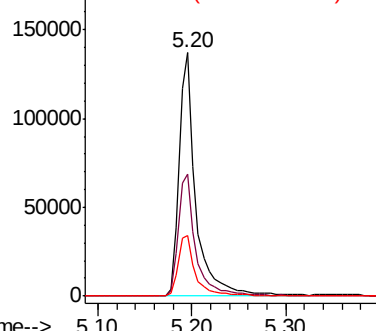


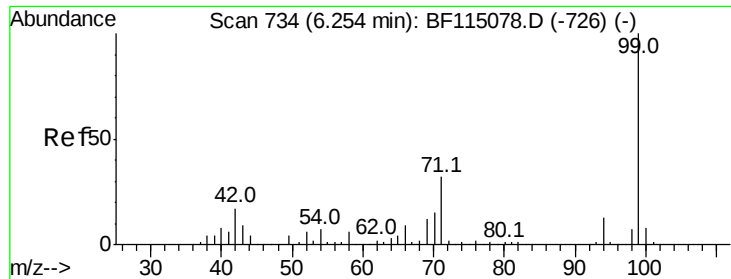
Abundance

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: 15.327 ng

RT: 6.24 min Scan# 731

Delta R.T. -0.02 min

Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Instrument :

BNA_F

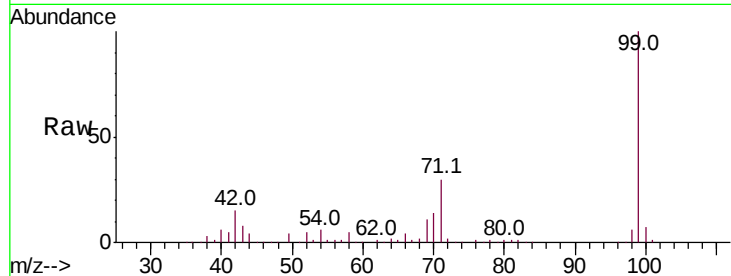
ClientSampleId :

HJDC-COMP-1DL

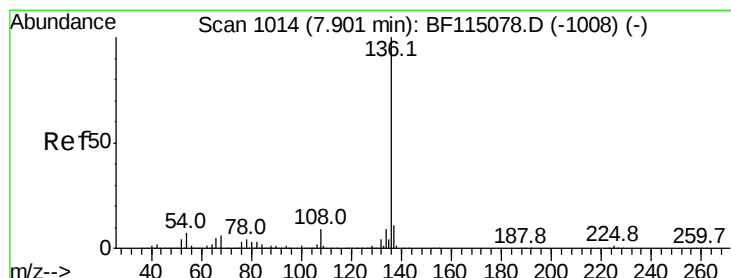
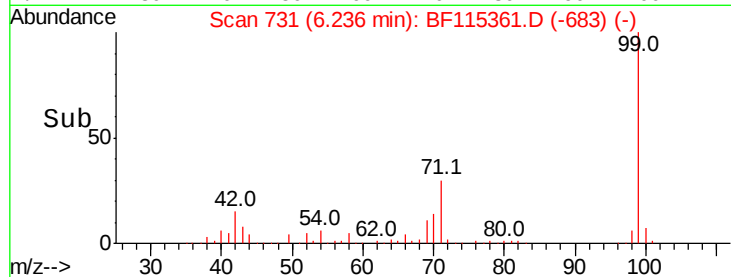
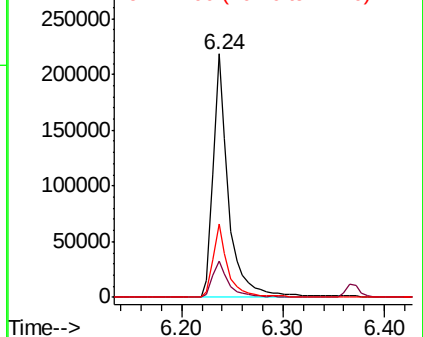
Tot Ion:	99	Resp:	232370
Ion Ratio	Lower	Upper	
99	100		
42	15.2	13.2	19.8
71	30.2	25.7	38.5

Manual Integrations
APPROVED

mohammad
7/3/2019 10:51:36 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: 7.89 min Scan# 1012

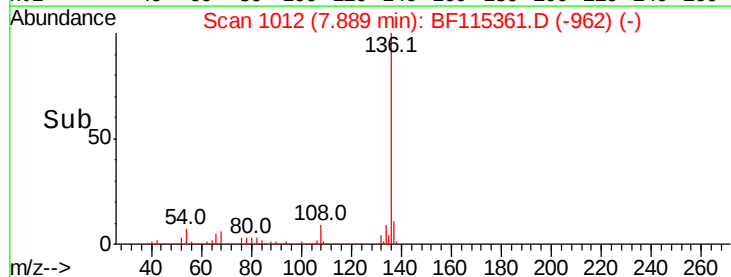
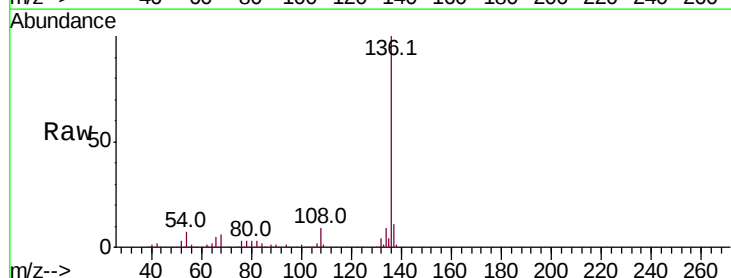
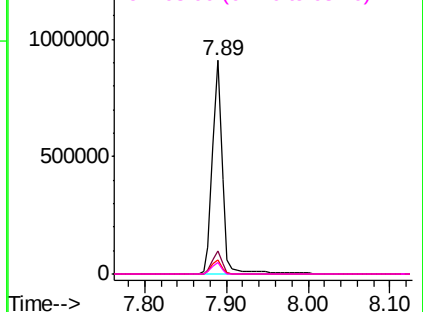
Delta R.T. -0.01 min

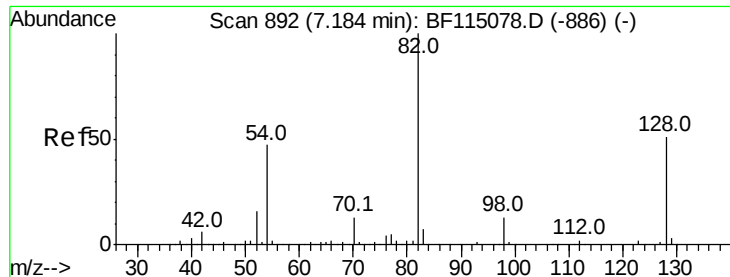
Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Tgt Ion:	136	Resp:	779020
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.0	13.4
54	6.6	5.4	8.2
68	5.7	4.6	7.0

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





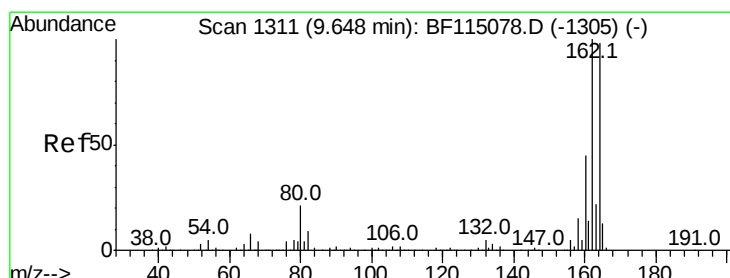
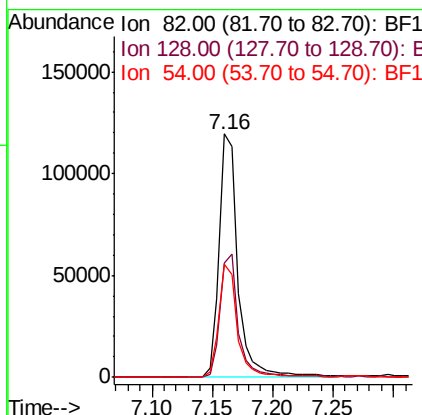
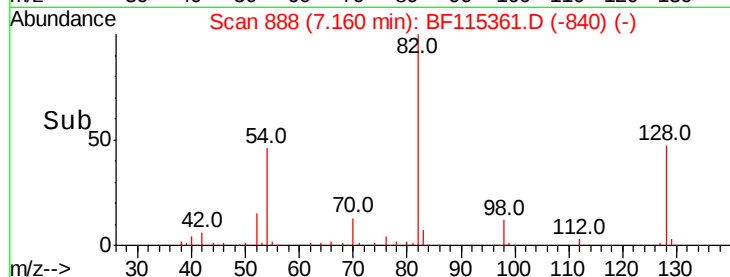
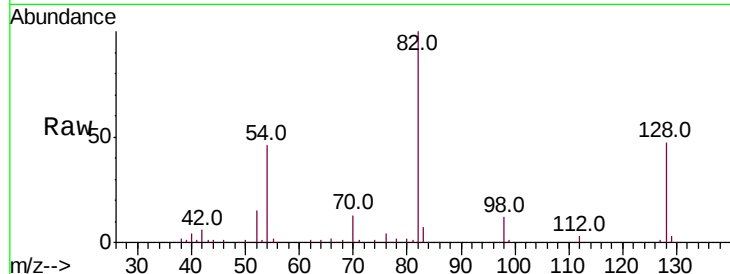
#23
 Nitrobenzene-d5
 Concen: 10.168 ng
 RT: 7.16 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF115361.D
 Acq: 2 Jul 2019 16:00

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-COMP-1DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.1	40.7	61.1
54	46.3	37.5	56.3

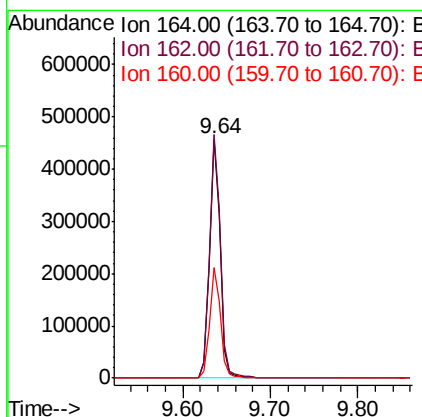
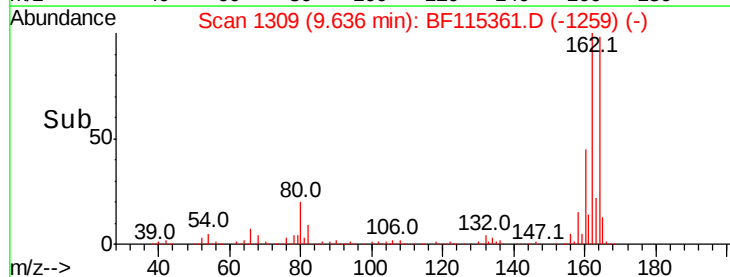
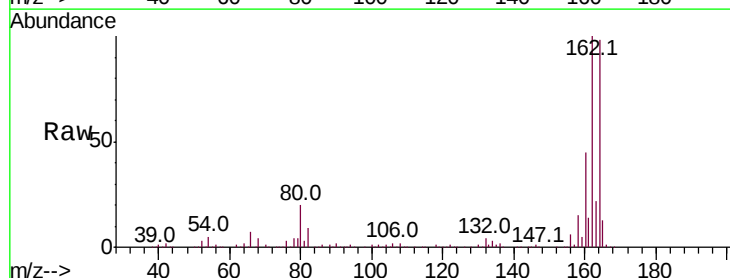
Manual Integrations
 APPROVED

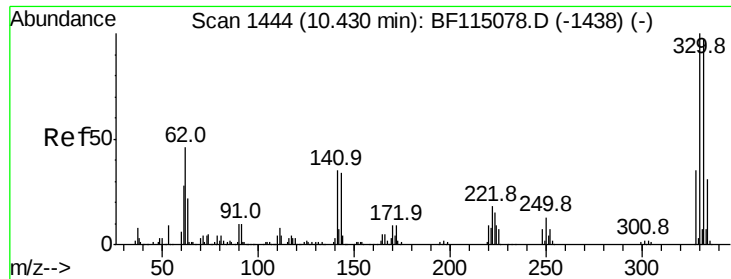
mohammad
 7/3/2019 10:51:36 PM



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.64 min Scan# 1309
 Delta R.T. -0.01 min
 Lab File: BF115361.D
 Acq: 2 Jul 2019 16:00

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.0	123.0
160	46.1	35.8	53.8





#42

2,4,6-Tribromophenol

Concen: 14.408 ng

RT: 10.42 min Scan# 1442

Delta R.T. -0.01 min

Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Instrument :

BNA_F

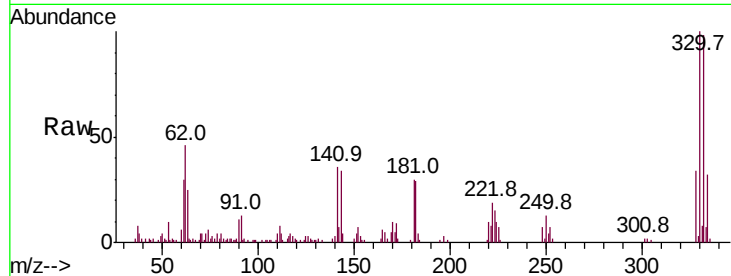
ClientSampleId :

HJDC-COMP-1DL

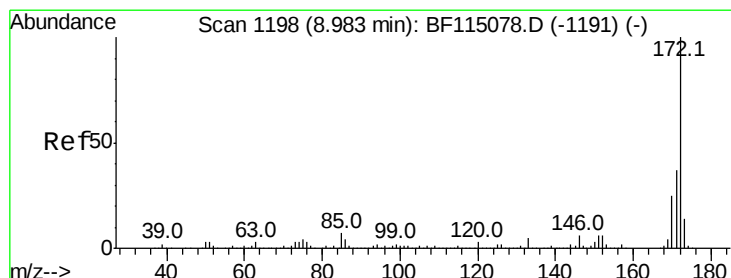
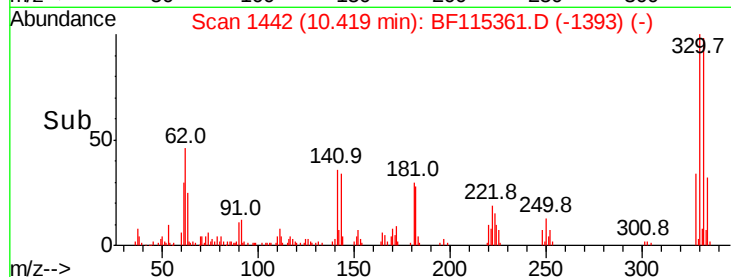
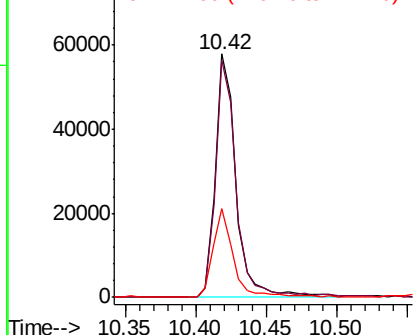
Tot Ion:	330	Resp:	59055
Ion Ratio	Lower	Upper	
330	100		
332	98.6	78.2	117.2
141	35.6	25.7	38.5

Manual Integrations
APPROVED

mohammad
7/3/2019 10:51:36 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: 12.910 ng

RT: 8.97 min Scan# 1195

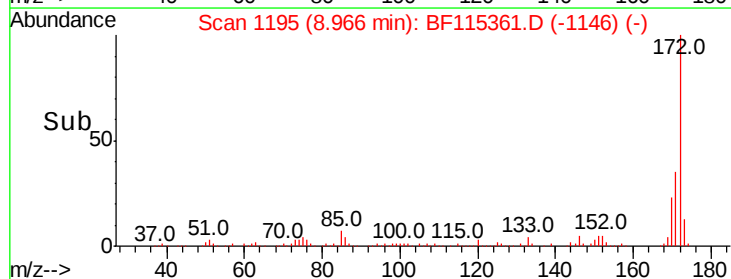
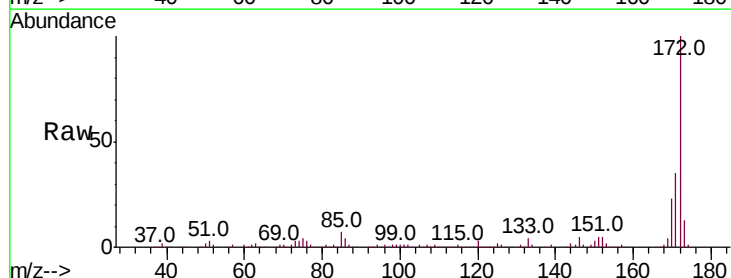
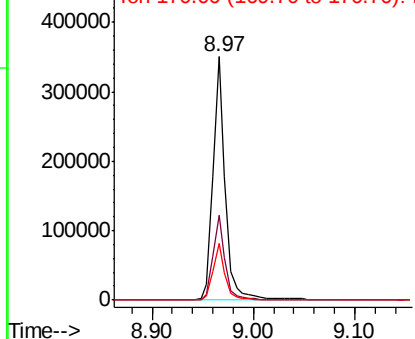
Delta R.T. -0.01 min

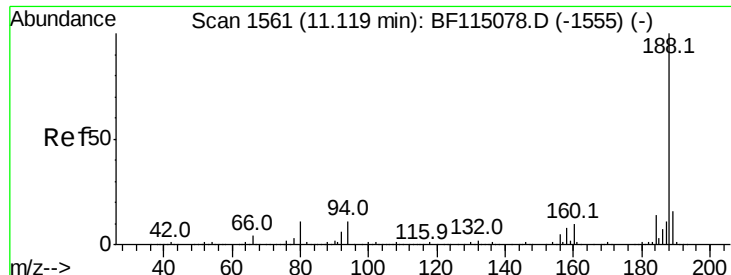
Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Tgt Ion:	172	Resp:	295393
Ion Ratio	Lower	Upper	
172	100		
171	34.9	30.2	45.2
170	23.4	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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.11 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Instrument :

BNA_F

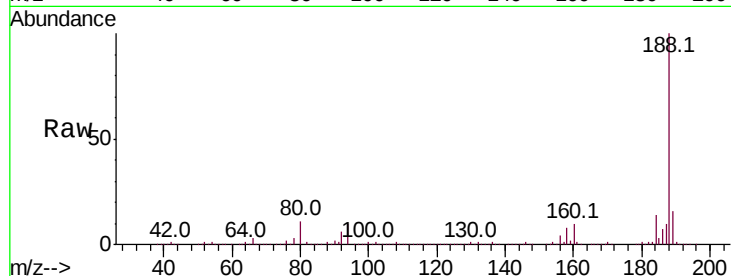
ClientSampleId :

HJDC-COMP-1DL

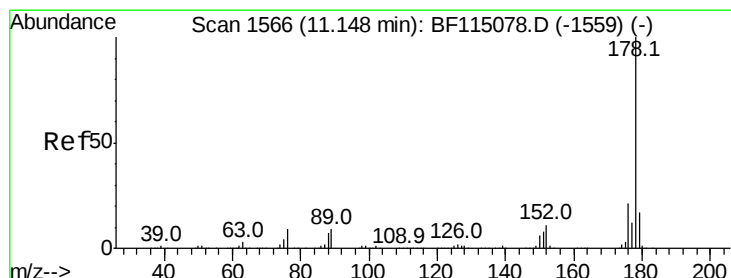
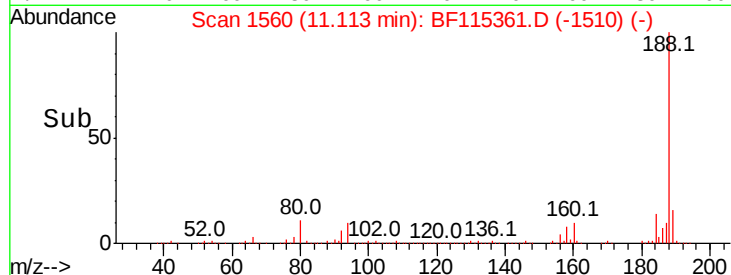
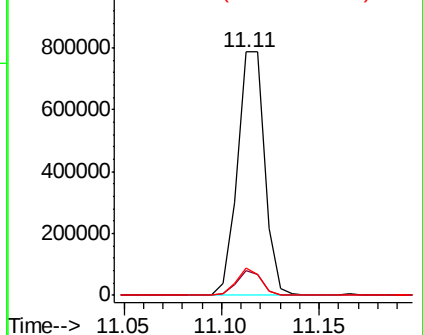
Tot Ion:	188	Resp:	763817
Ion Ratio	Lower	Upper	
188	100		
94	10.3	8.1	12.1
80	11.0	8.6	12.8

Manual Integrations
APPROVED

mohammad
7/3/2019 10:51:36 PM



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 19.252 ng

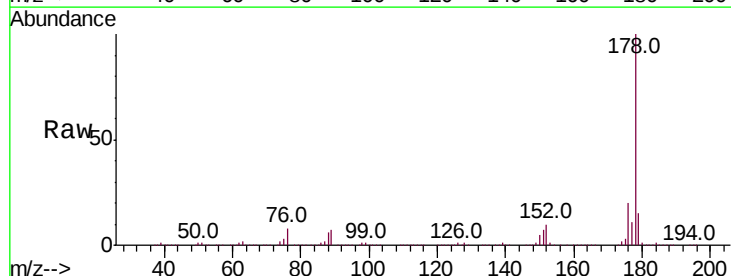
RT: 11.14 min Scan# 1565

Delta R.T. -0.01 min

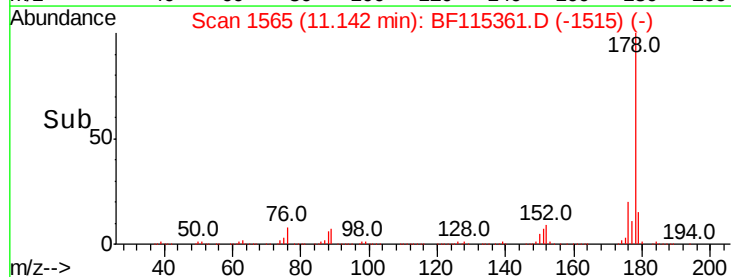
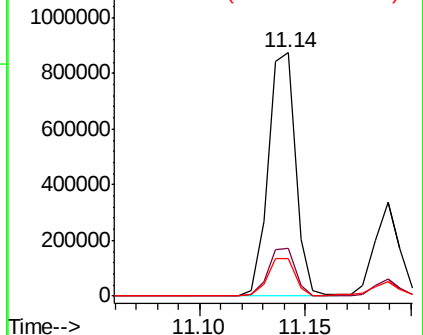
Lab File: BF115361.D

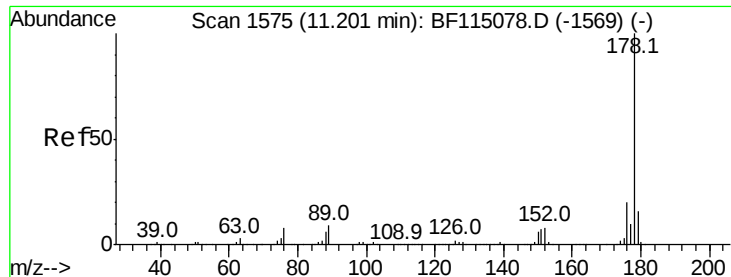
Acq: 2 Jul 2019 16:00

Tgt Ion:	178	Resp:	791757
Ion Ratio	Lower	Upper	
178	100		
176	19.6	16.7	25.1
179	15.3	13.0	19.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 6.528 ng

RT: 11.19 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Instrument :

BNA_F

ClientSampleId :

HJDC-COMP-1DL

Tot Ion:178 Resp: 270994

Ion Ratio Lower Upper

178 100

176 18.0 16.1 24.1

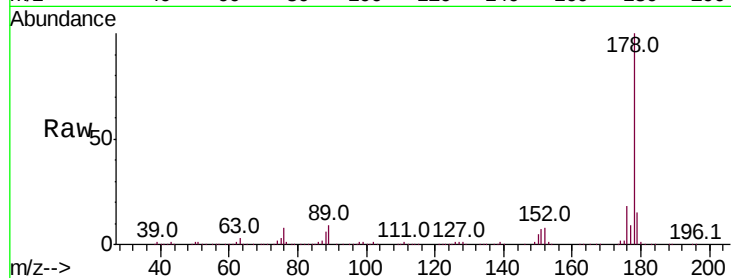
179 15.4 13.0 19.4

Manual Integrations

APPROVED

mohammad

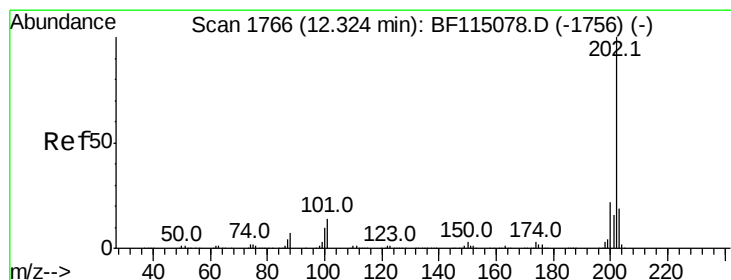
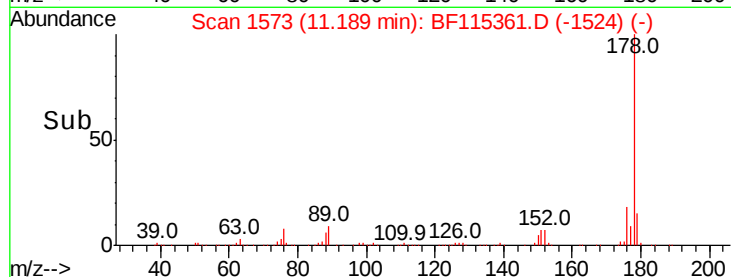
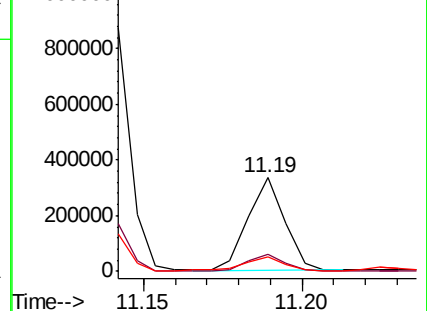
7/3/2019 10:51:36 PM



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



#75

Fluoranthene

Concen: 35.029 ng

RT: 12.32 min Scan# 1766

Delta R.T. -0.01 min

Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

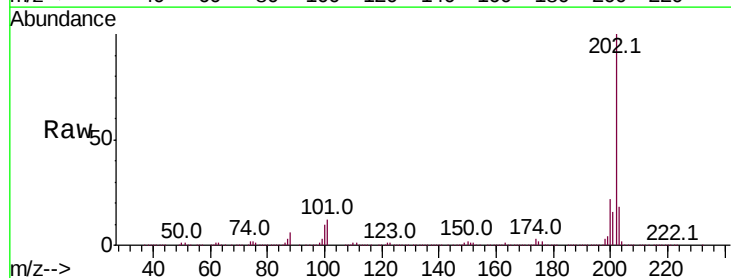
Tgt Ion:202 Resp: 1437317

Ion Ratio Lower Upper

202 100

101 12.5 0.0 32.9

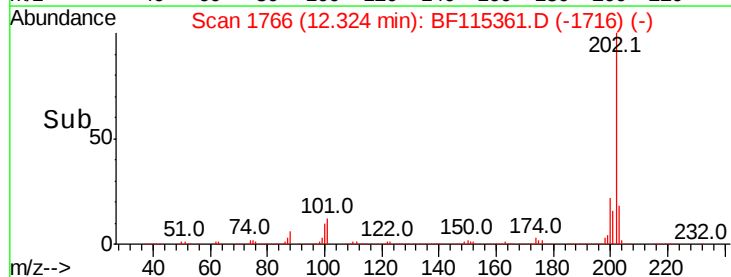
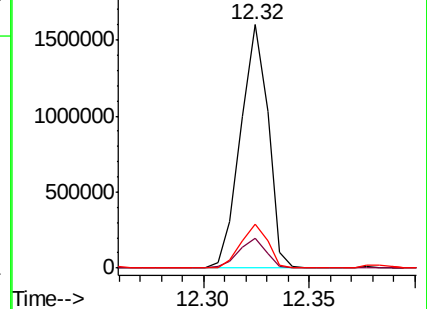
203 18.3 0.0 38.6

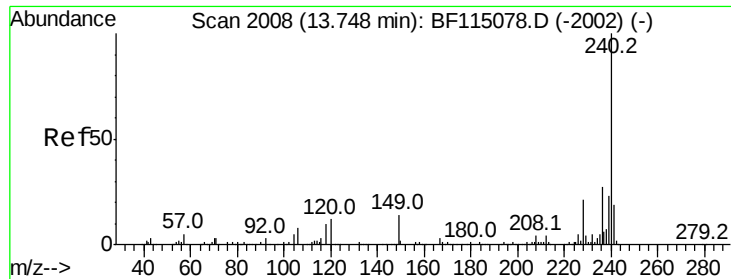


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





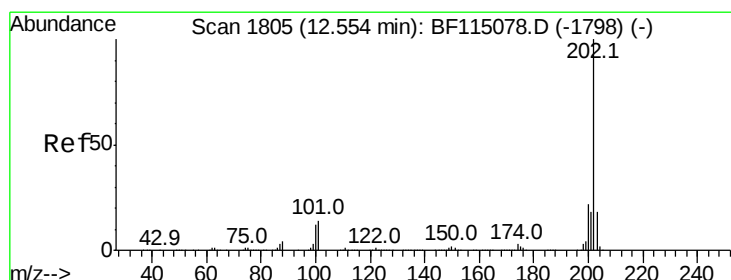
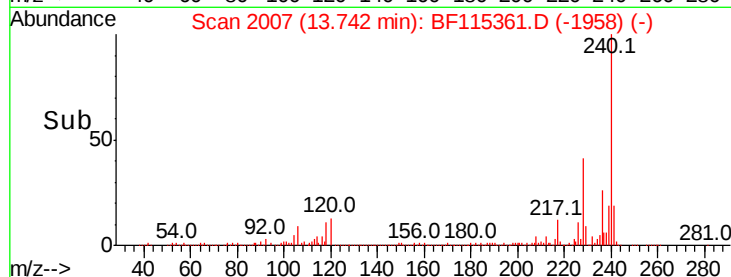
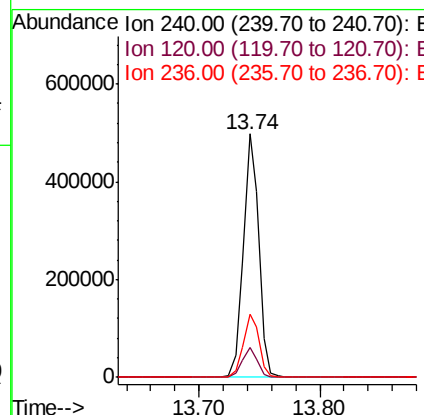
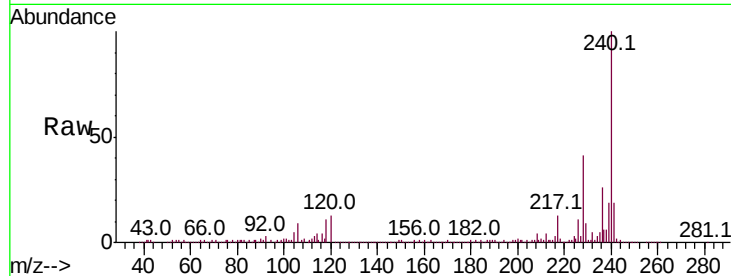
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.74 min Scan# 2007
 Delta R.T. -0.01 min
 Lab File: BF115361.D
 Acq: 2 Jul 2019 16:00

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-COMP-1DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.5	8.9	13.3
236	26.1	21.4	32.2

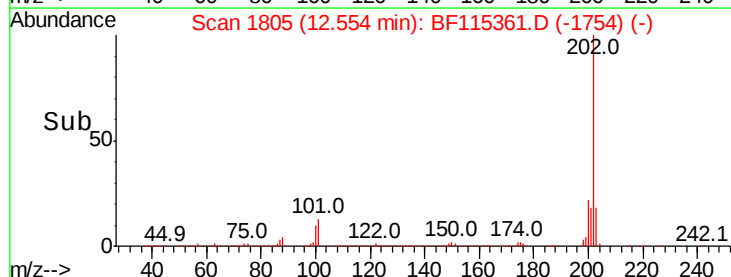
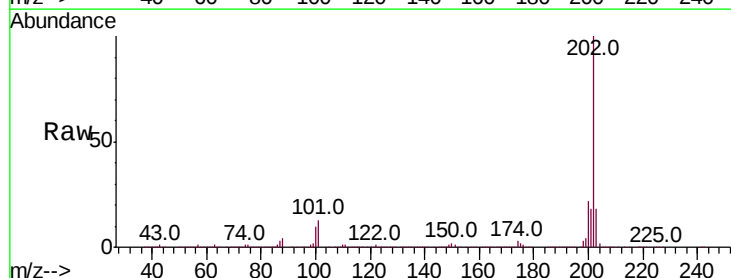
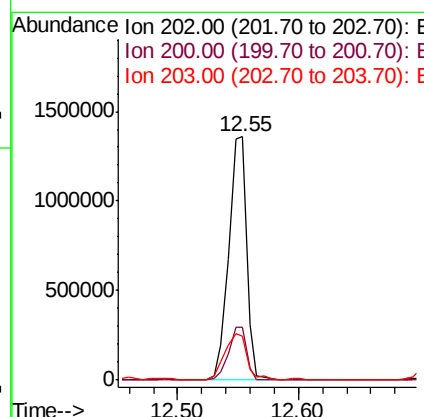
Manual Integrations
 APPROVED

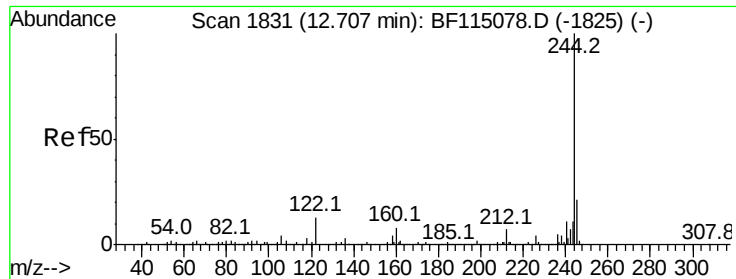
mohammad
 7/3/2019 10:51:36 PM



#78
 Pyrene
 Concen: 40.822 ng
 RT: 12.55 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: BF115361.D
 Acq: 2 Jul 2019 16:00

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	18.4	27.6
203	18.1	15.0	22.6





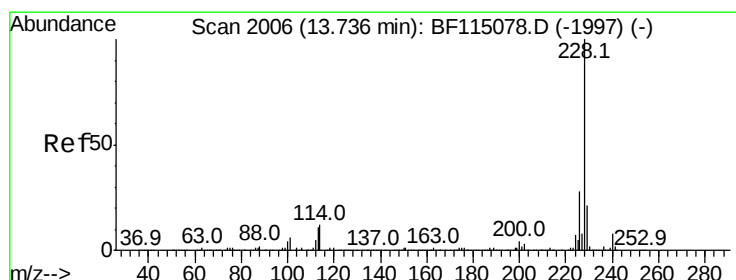
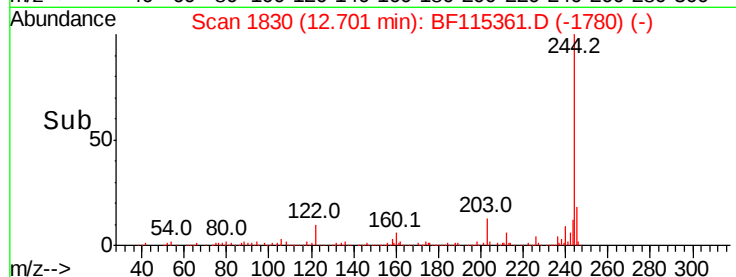
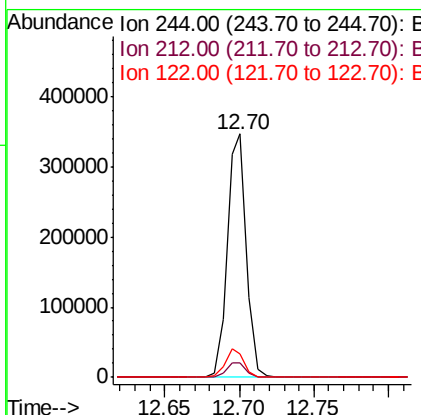
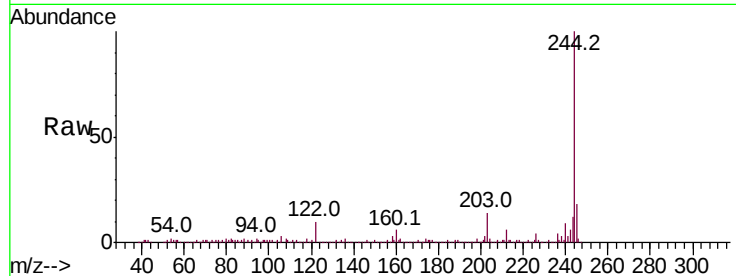
#79
 Terphenyl-d14
 Concen: 14.919 ng
 RT: 12.70 min Scan# 1830
 Delta R.T. -0.01 min
 Lab File: BF115361.D
 Acq: 2 Jul 2019 16:00

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-COMP-1DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.0	5.8	8.6
122	9.7	9.8	14.6

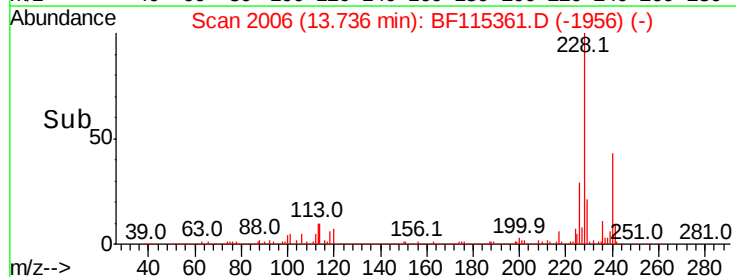
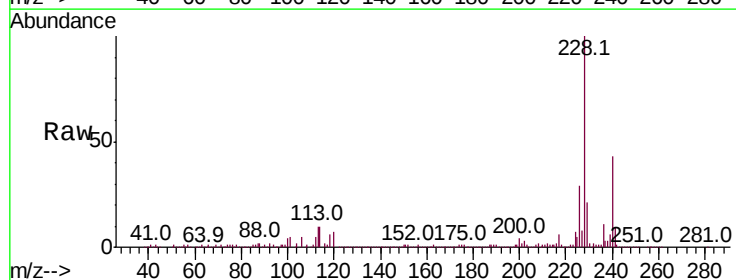
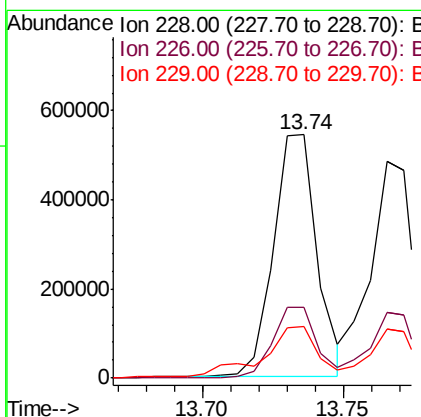
Manual Integrations
 APPROVED

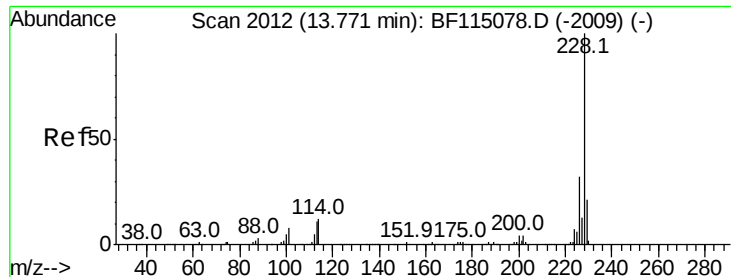
mohammad
 7/3/2019 10:51:36 PM



#81
 Benzo(a)anthracene
 Concen: 18.209 ng
 RT: 13.74 min Scan# 2006
 Delta R.T. -0.01 min
 Lab File: BF115361.D
 Acq: 2 Jul 2019 16:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	21.1	16.6	24.8





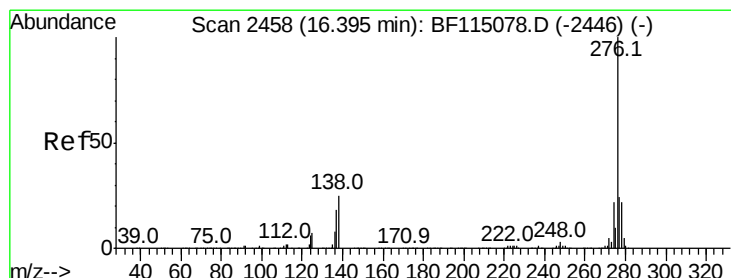
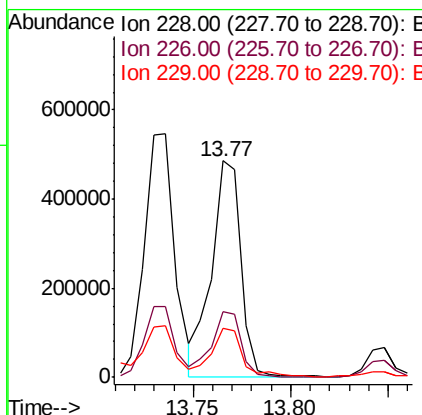
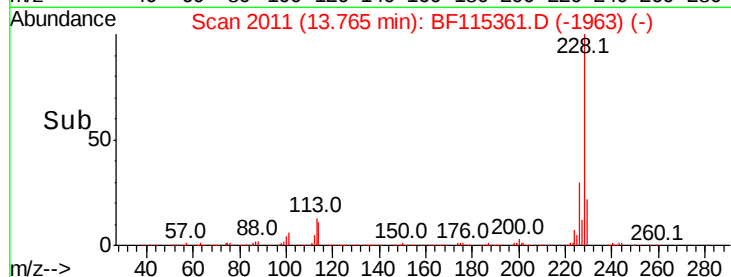
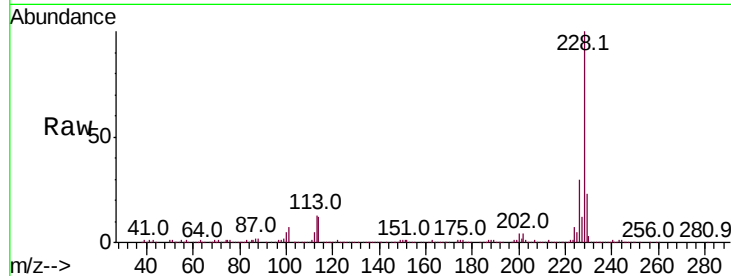
#83
Chrysene
Concen: 17.231 ng
RT: 13.77 min Scan# 2011
Delta R.T. -0.02 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Instrument :
BNA_F
ClientSampleId :
HJDC-COMP-1DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.1	37.7
229	22.9	16.3	24.5

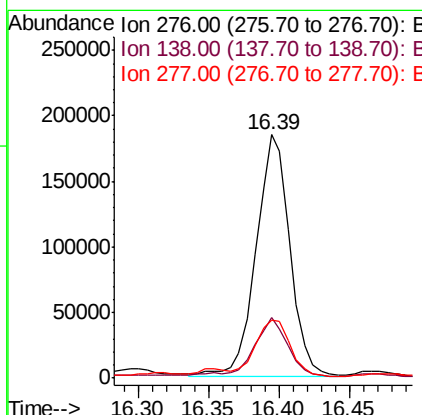
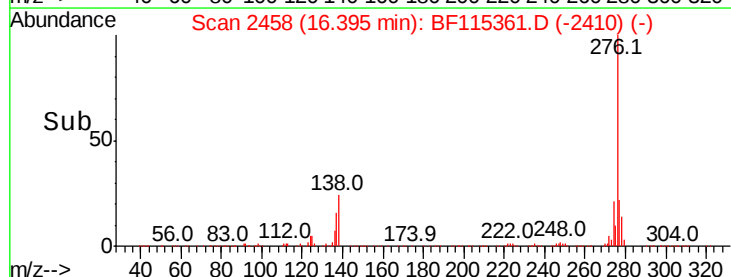
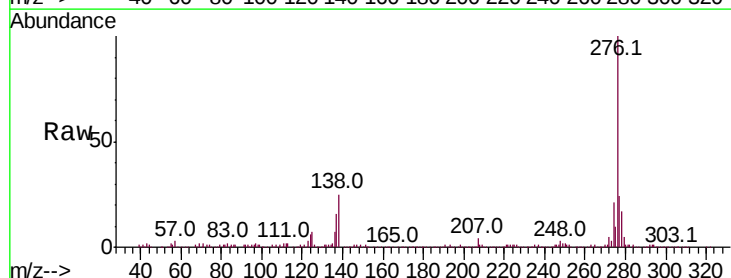
Manual Integrations
APPROVED

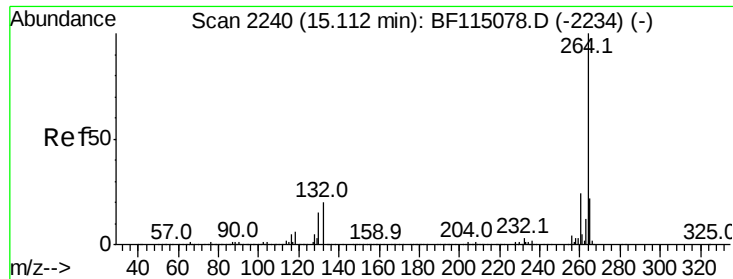
mohammad
7/3/2019 10:51:36 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 9.045 ng
RT: 16.39 min Scan# 2458
Delta R.T. -0.02 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.9	22.2	33.4
277	24.3	20.2	30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.12 min Scan# 2241

Delta R.T. -0.01 min

Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Instrument :

BNA_F

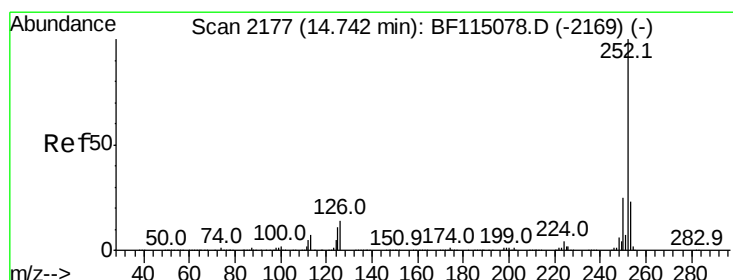
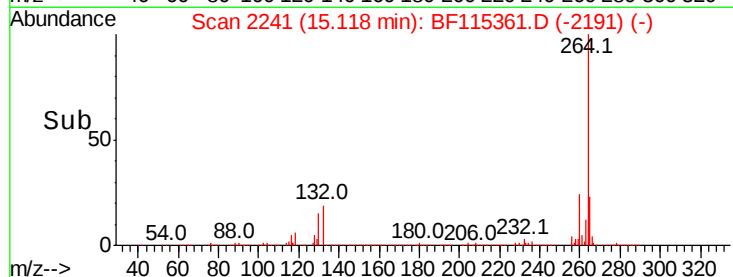
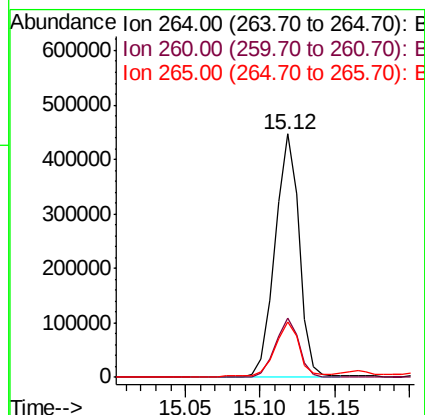
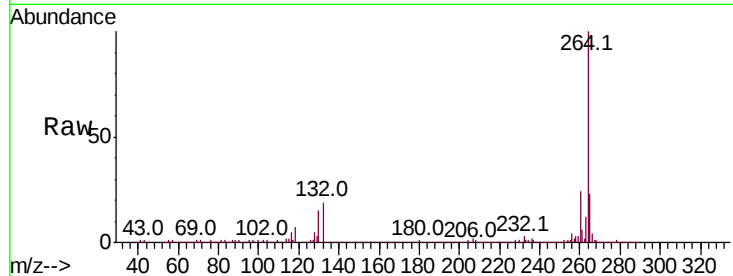
ClientSampleId :

HJDC-COMP-1DL

Tot Ion:	264	Resp:	503963
Ion Ratio	Lower	Upper	
264	100		
260	24.3	19.8	29.8
265	22.8	17.2	25.8

Manual Integrations
APPROVED

mohammad
7/3/2019 10:51:36 PM



#88

Benzo(b)fluoranthene

Concen: 21.148 ng m

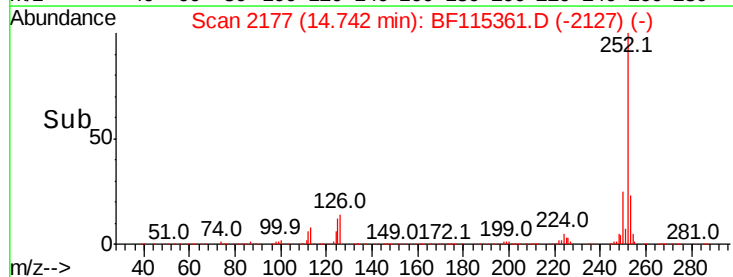
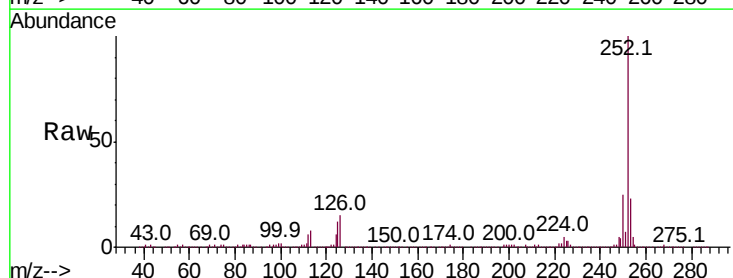
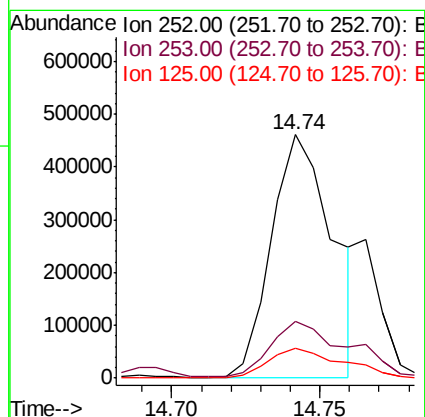
RT: 14.74 min Scan# 2177

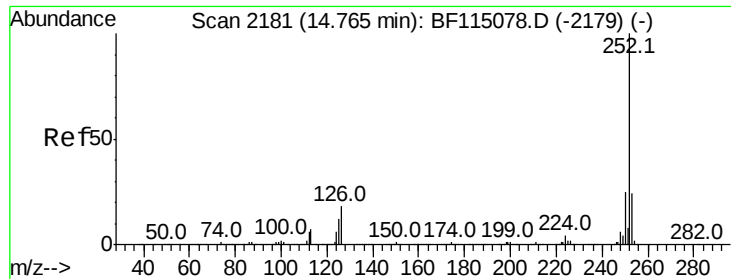
Delta R.T. -0.01 min

Lab File: BF115361.D

Acq: 2 Jul 2019 16:00

Tgt Ion:	252	Resp:	665004
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.3	27.5
125	12.5	9.4	14.0





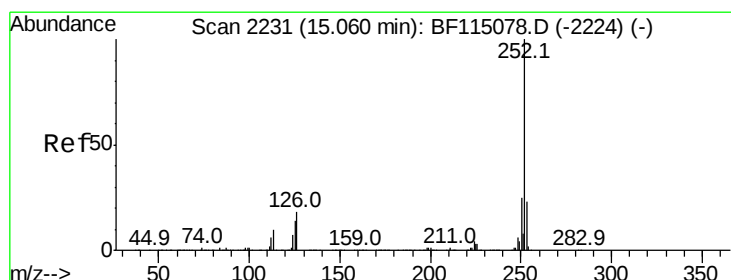
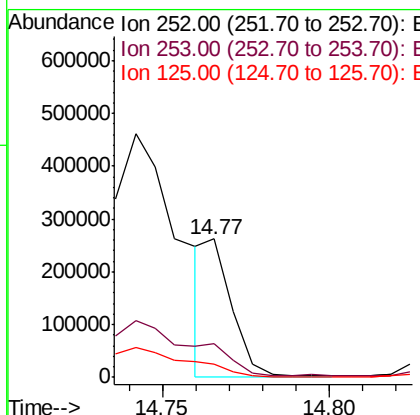
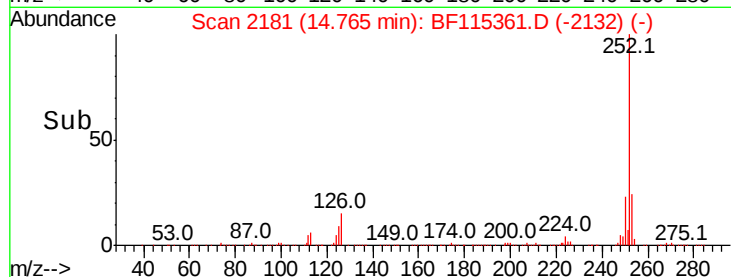
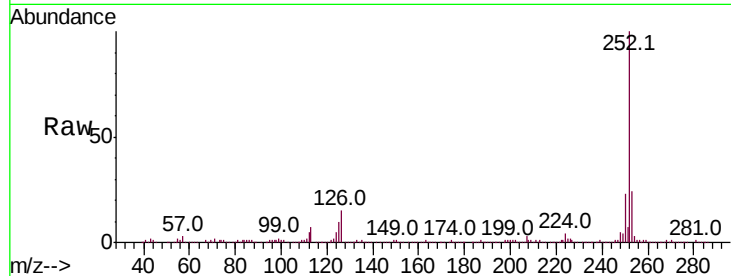
#89
Benzo(k)fluoranthene
Concen: 5.379 ng m
RT: 14.77 min Scan# 2181
Delta R.T. -0.01 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Instrument :
BNA_F
ClientSampleId :
HJDC-COMP-1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.6
125	9.6	9.2	13.8

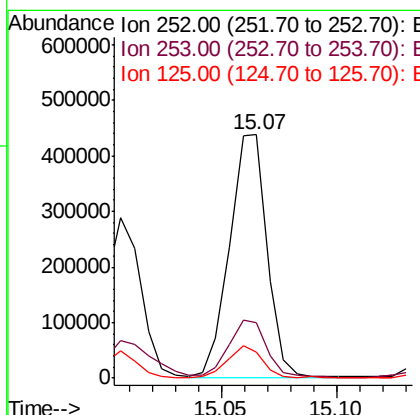
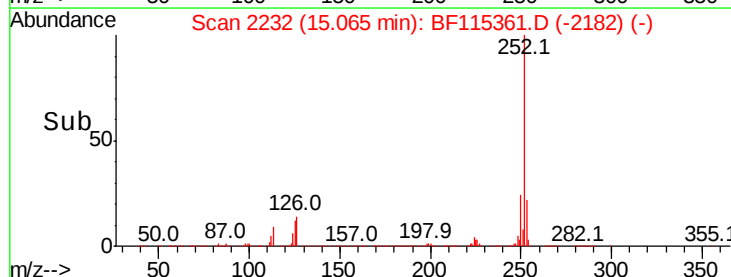
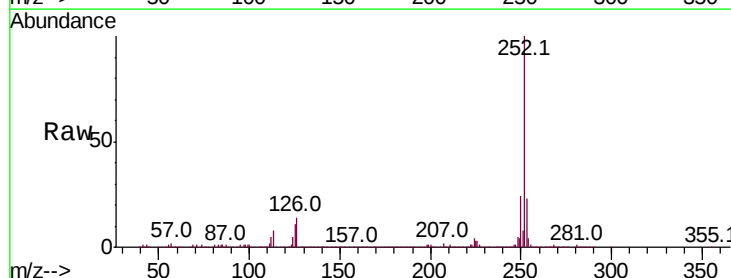
Manual Integrations
APPROVED

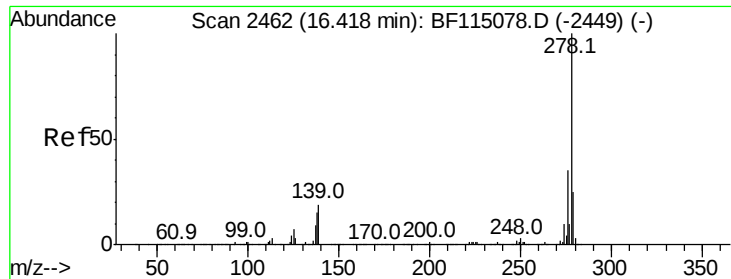
mohammad
7/3/2019 10:51:36 PM



#90
Benzo(a)pyrene
Concen: 17.437 ng
RT: 15.07 min Scan# 2232
Delta R.T. -0.01 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.3	27.5
125	10.8	10.3	15.5





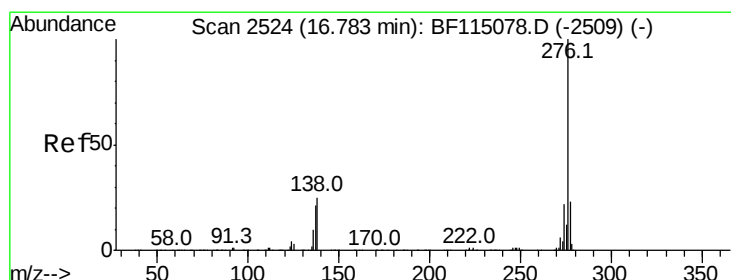
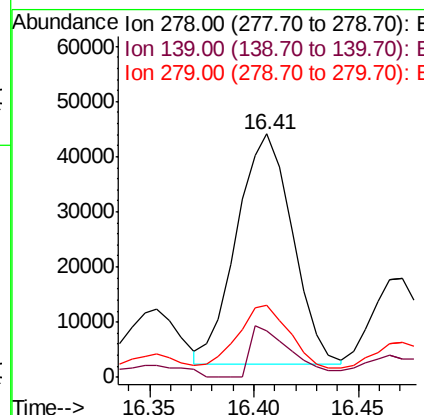
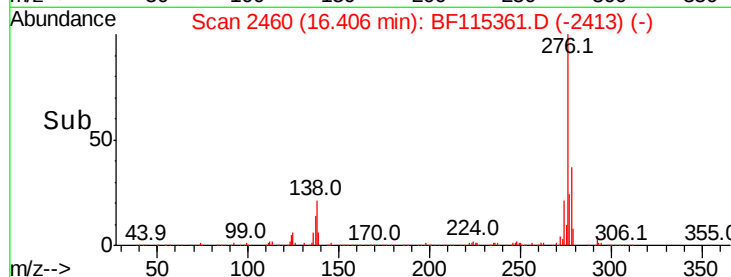
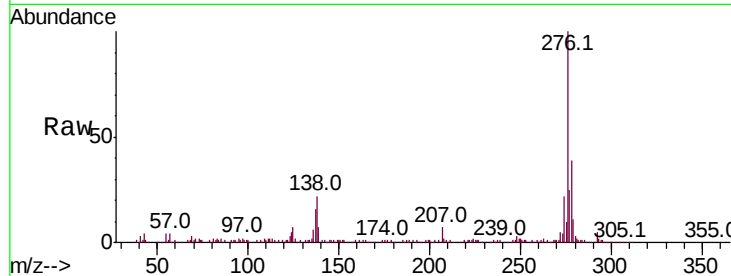
#91
Dibenzo(a,h)anthracene
Concen: 2.927 ng
RT: 16.41 min Scan# 2460
Delta R.T. -0.02 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Instrument :
BNA_F
ClientSampleId :
HJDC-COMP-1DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.8	14.9	22.3
279	29.5	19.4	29.0

Manual Integrations
APPROVED

mohammad
7/3/2019 10:51:36 PM



#92
Benzo(g,h,i)perylene
Concen: 10.603 ng
RT: 16.78 min Scan# 2523
Delta R.T. -0.02 min
Lab File: BF115361.D
Acq: 2 Jul 2019 16:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.1	28.7
138	23.5	19.0	28.6

