

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090519\
 Data File : BF116850.D
 Acq On : 5 Sep 2019 20:41
 Operator : HP/JU
 Sample : K4692-08 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-29-COMP

Manual Integrations
 APPROVED

mohammad
 9/10/2019 9:55:30 AM

Quant Time: Sep 06 05:40:13 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	71519	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	296448	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	144767	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	205035	20.00	ng	0.00
76) Chrysene-d12	14.01	240	147306	20.00	ng	0.01
87) Perylene-d12	15.47	264	112283	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	147248	33.35	ng	0.00
7) Phenol-d6	6.47	99	275731	47.57	ng	0.00
23) Nitrobenzene-d5	7.40	82	164460	31.67	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	65256	67.43	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	404089	47.09	ng	-0.01
79) Terphenyl-d14	12.94	244	356084	44.72	ng	0.00
Target Compounds						
31) Naphthalene	8.15	128	80345	5.700	ng	Qvalue 98
37) 2-Methylnaphthalene	8.84	142	31011	3.306	ng	97
38) 1-Methylnaphthalene	8.94	142	25238	2.851	ng	98
49) Acenaphthylene	9.74	152	32645	2.482	ng	99
50) Dimethylphthalate	9.59	163	56137	5.617	ng	97
52) Acenaphthene	9.92	154	89439	11.068	ng	99
55) Dibenzofuran	10.09	168	88734	7.789	ng	99
58) Fluorene	10.43	166	101323	11.673	ng	99
71) Phenanthrene	11.40	178	1130646	99.062	ng	98
72) Anthracene	11.45	178	351800	30.620	ng	98
73) Carbazole	11.59	167	88843	8.118	ng	99
75) Fluoranthene	12.59	202	1513405	134.924	ng	98
78) Pvrene	12.82	202	1433677	109.487	ng	98
81) Benzo(a)anthracene	14.00	228	765630	82.123	ng	98
83) Chrysene	14.04	228	598831	62.346	ng	97
86) Indeno(1,2,3-cd)pyrene	16.93	276	219003	28.387	ng	98
88) Benzo(b)fluoranthene	15.05	252	613028m	90.304	ng	
89) Benzo(k)fluoranthene	15.07	252	212705m	34.365	ng	
90) Benzo(a)pvrene	15.41	252	414715	70.219	ng	98
91) Dibenzo(a,h)anthracene	16.93	278	52513	10.158	ng	# 79
92) Benzo(g,h,i)perylene	17.37	276	205702	39.015	ng	95

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

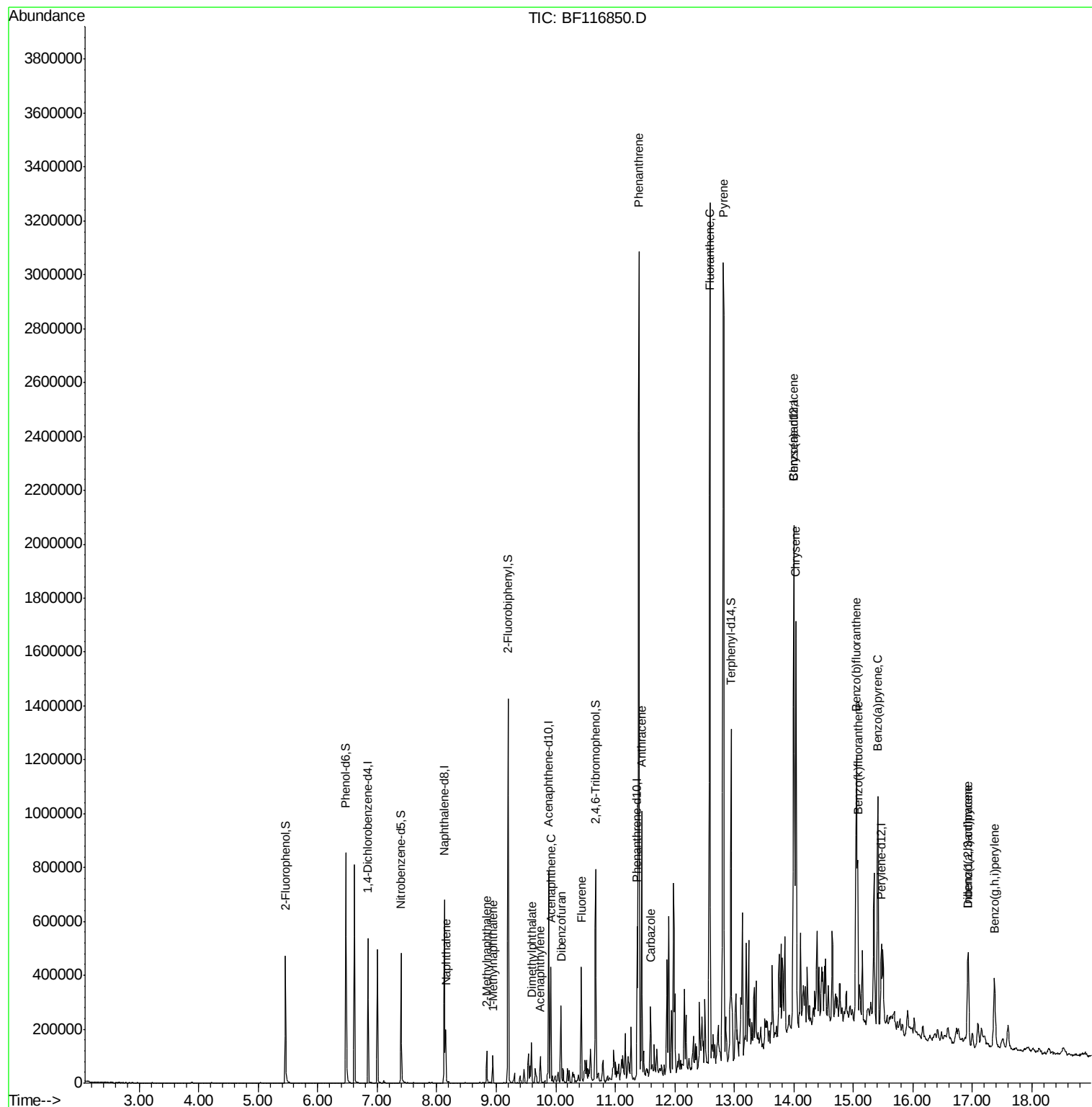
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090519\
Data File : BF116850.D
Acq On : 5 Sep 2019 20:41
Operator : HP/JU
Sample : K4692-08 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM

Quant Time: Sep 06 05:40:13 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

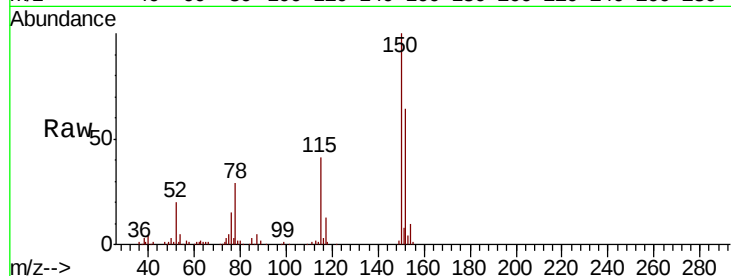
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.4	186.6
115	64.3	49.9	74.9

Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM

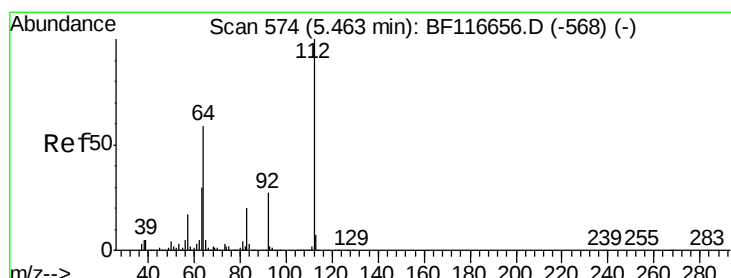
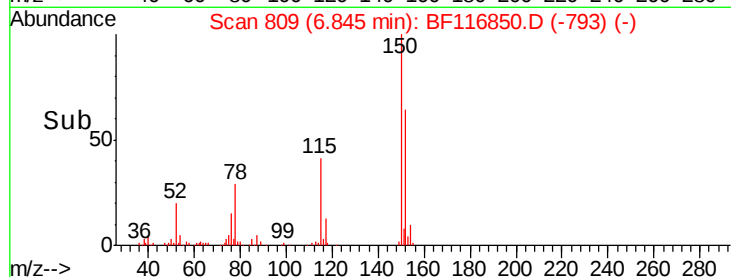
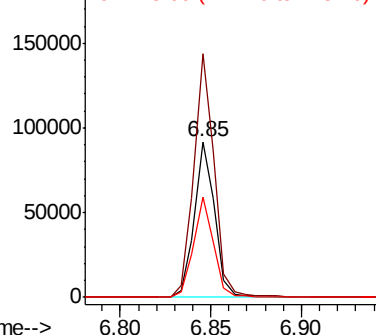


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

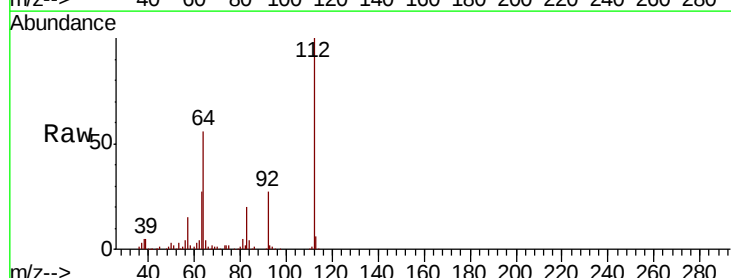
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 33.355 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	47.1	70.7
63	27.4	24.9	37.3

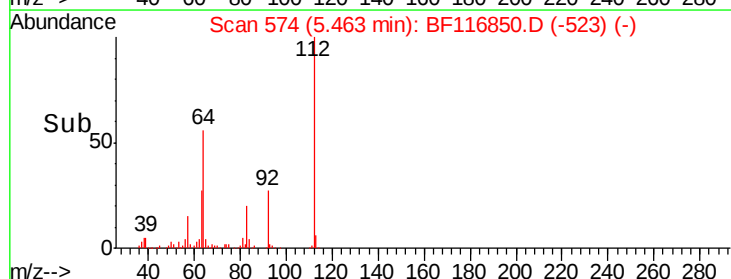
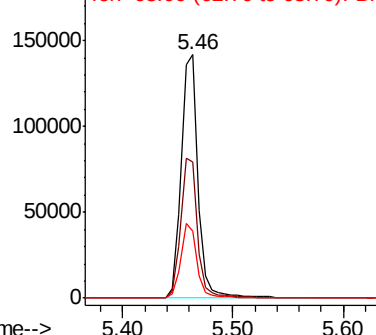


Abundance

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: 47.566 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116850.D

Acq: 5 Sep 2019 20:41

Instrument :

BNA_F

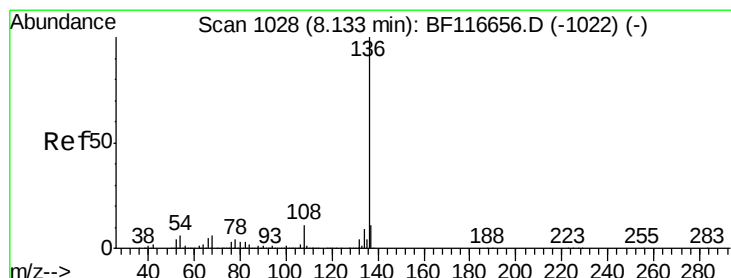
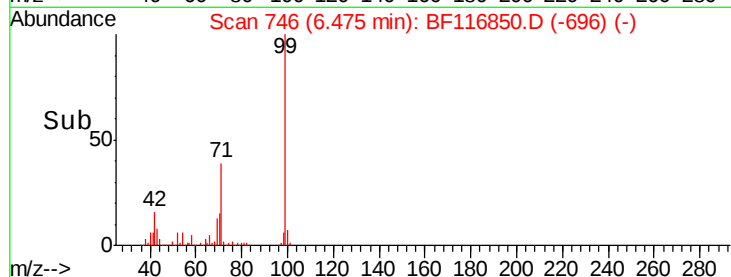
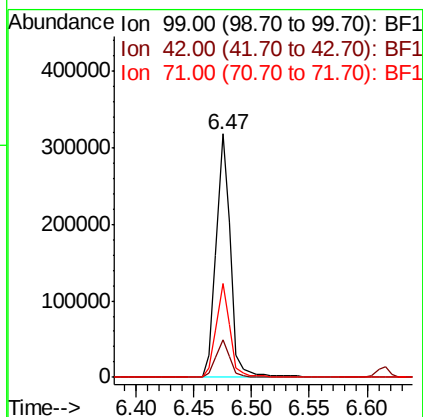
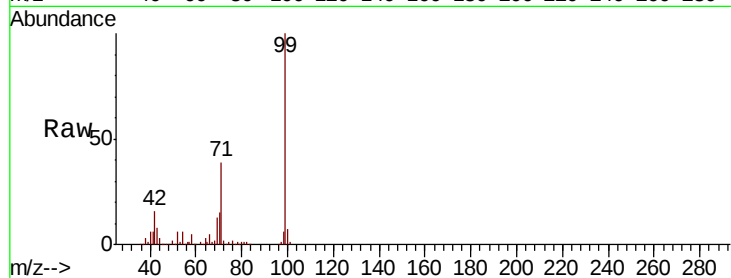
ClientSampleId :

SB-29-COMP

Tot Ion:	99	Resp:	275731
Ion Ratio	Lower	Upper	
99	100		
42	15.6	13.7	20.5
71	38.5	30.8	46.2

Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM



#21

Naphthalene-d8

Concen: 20.000 ng

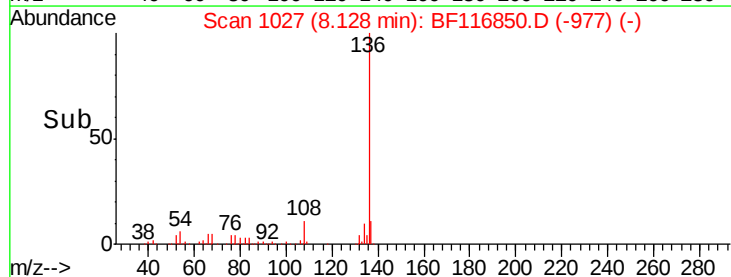
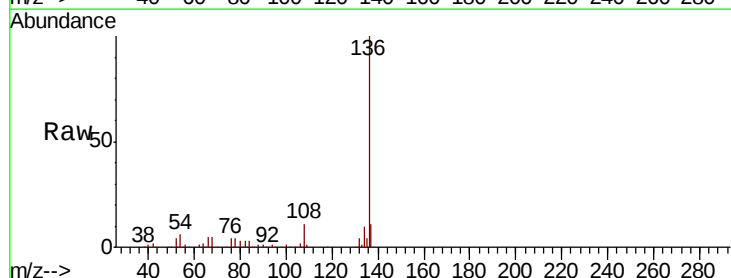
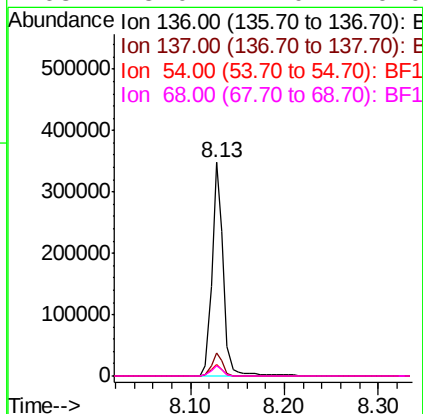
RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF116850.D

Acq: 5 Sep 2019 20:41

Tgt Ion:	136	Resp:	296448
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	5.7	4.8	7.2
68	5.0	4.0	6.0





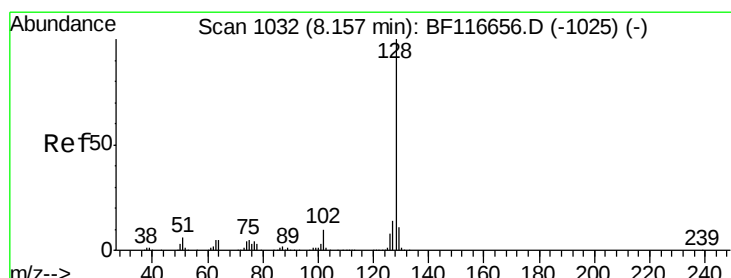
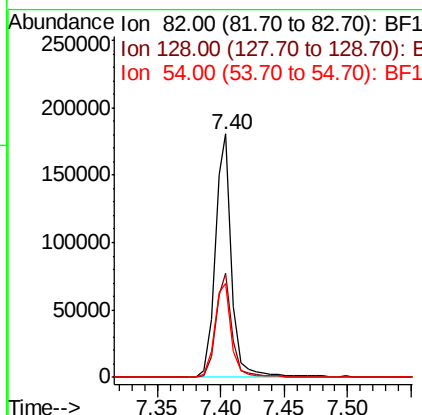
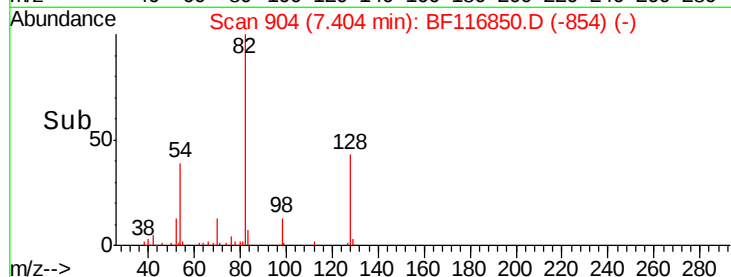
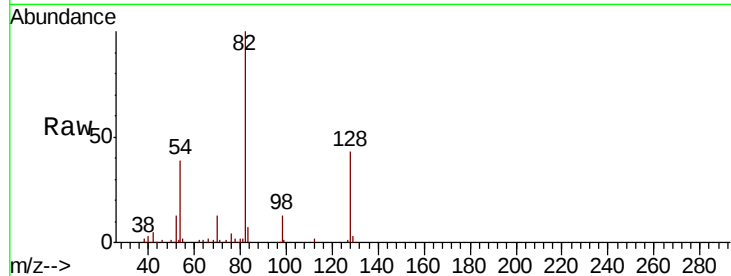
#23
Nitrobenzene-d5
Concen: 31.670 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.5	32.8	49.2
54	38.8	36.9	55.3

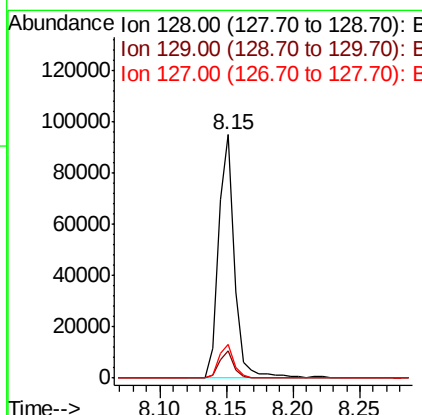
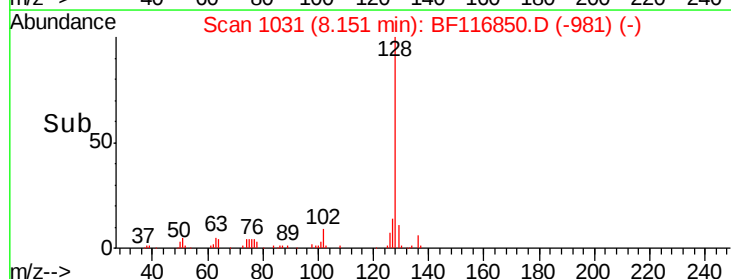
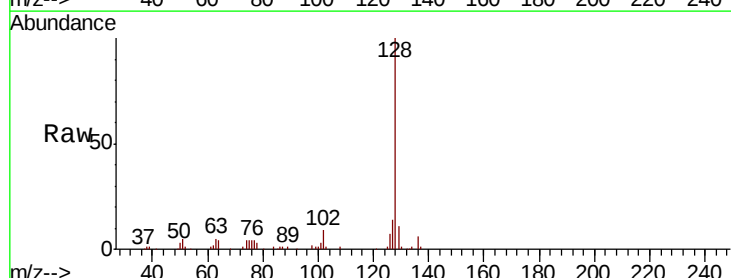
Manual Integrations
APPROVED

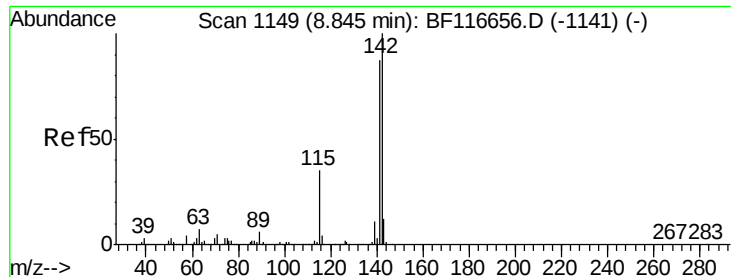
mohammad
9/10/2019 9:55:30 AM



#31
Naphthalene
Concen: 5.700 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.6	13.0
127	14.0	10.4	15.6





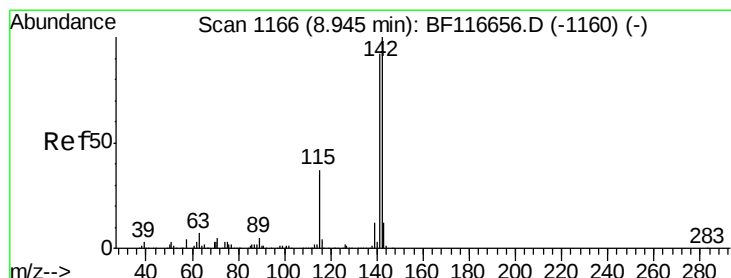
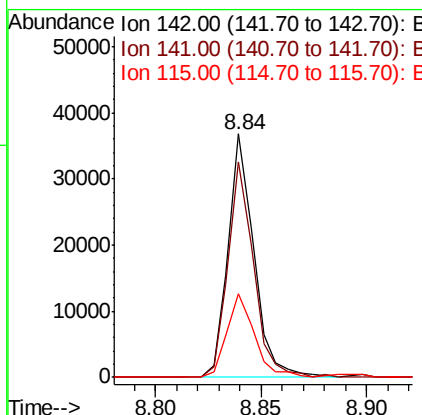
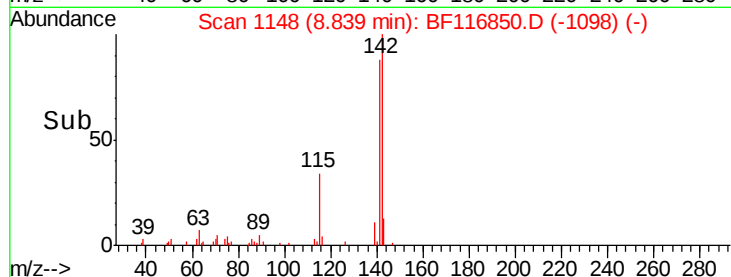
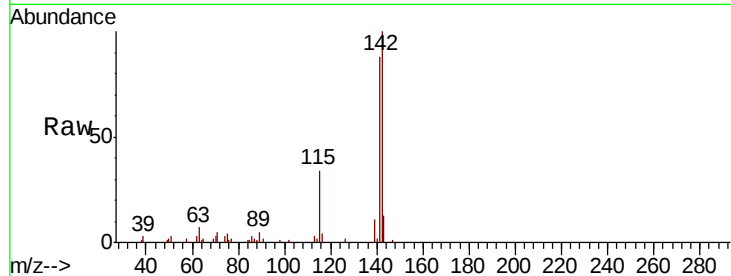
#37
2-Methylnaphthalene
Concen: 3.306 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.3	72.6	109.0
115	34.5	29.8	44.6

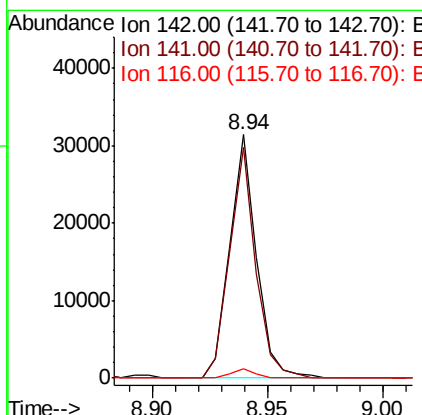
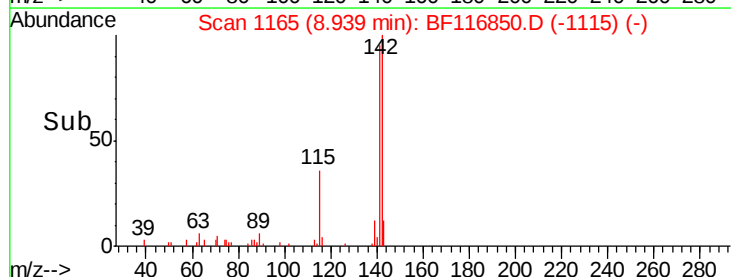
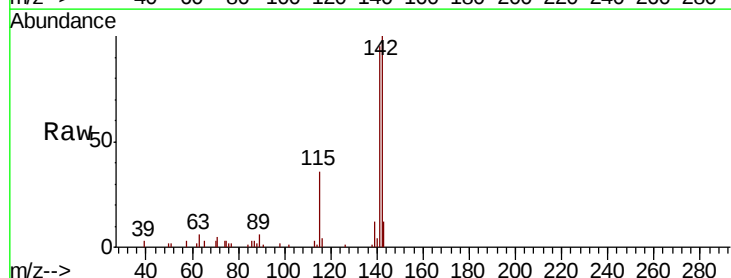
Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM



#38
1-Methylnaphthalene
Concen: 2.851 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.6	73.9	110.9
116	3.8	3.0	4.6





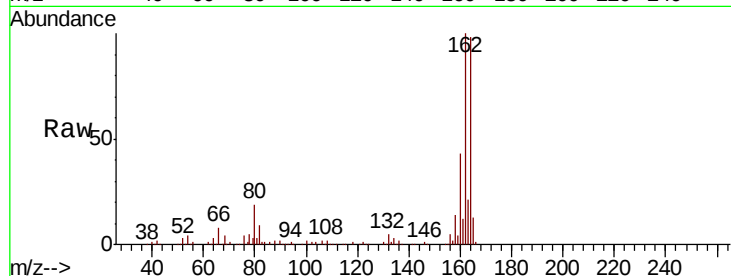
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.3	81.4	122.0	
160	44.3	35.4	53.2	

Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM

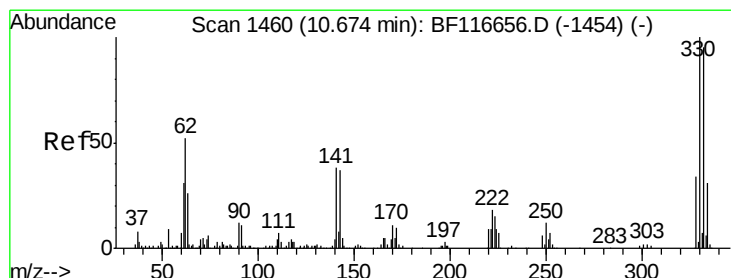
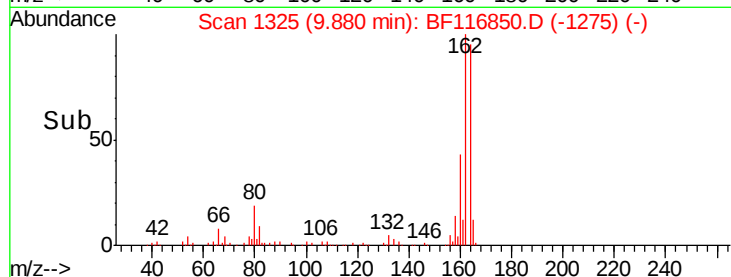
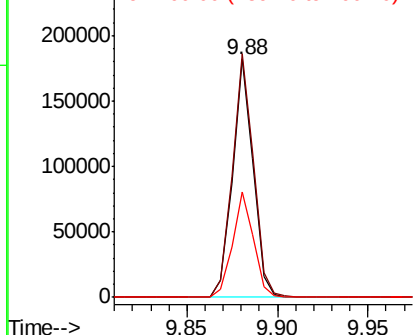


Abundance

Ion 164.00 (163.70 to 164.70): E

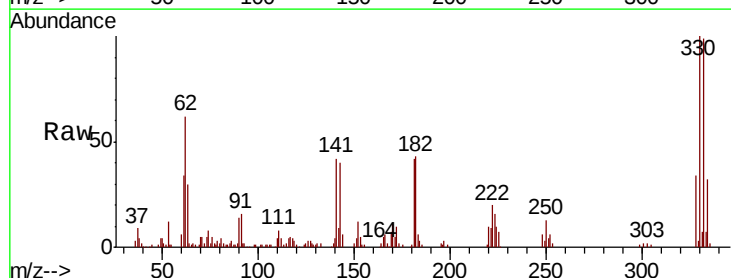
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 67.427 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.0	76.9	115.3	
141	46.2	31.4	47.2	

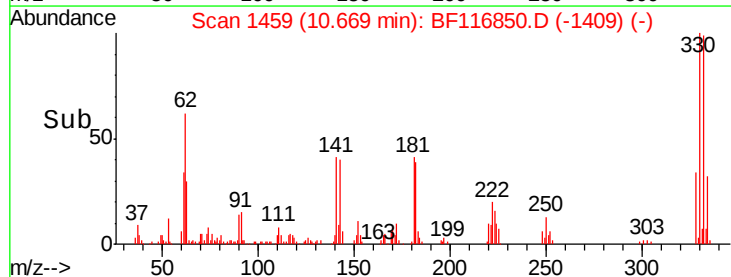
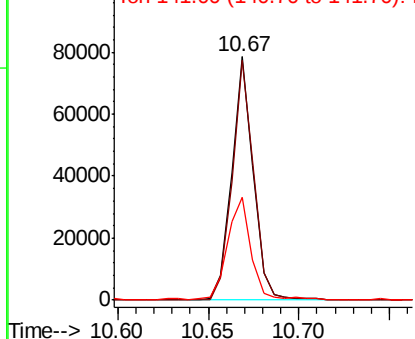


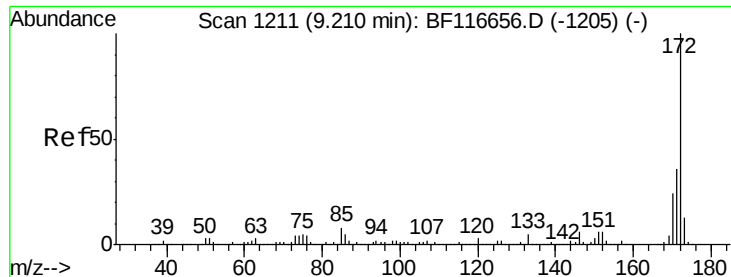
Abundance

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





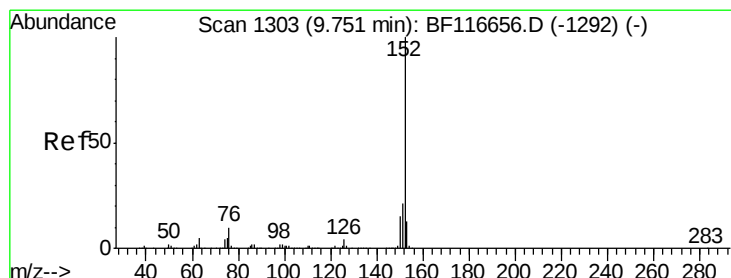
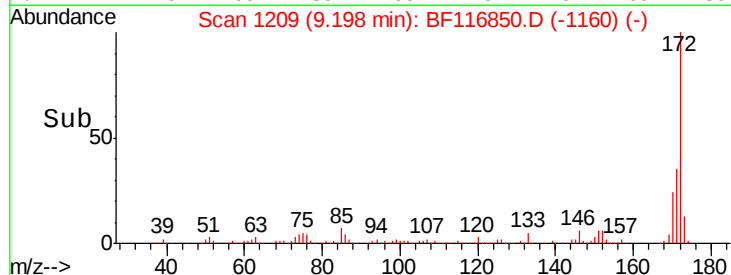
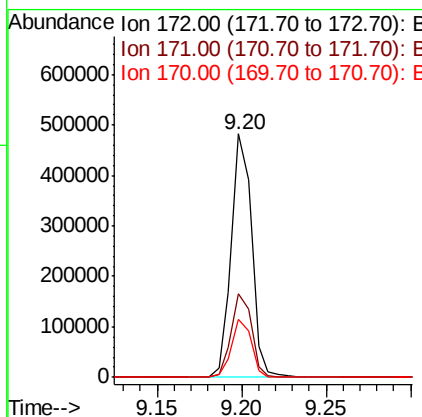
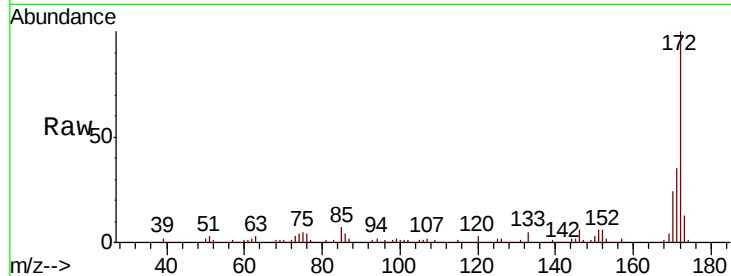
#45
2-Fluorobiphenyl
Concen: 47.086 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Resp	Lower	Upper
172	100	404089		
171	34.6		27.8	41.6
170	23.7		18.9	28.3

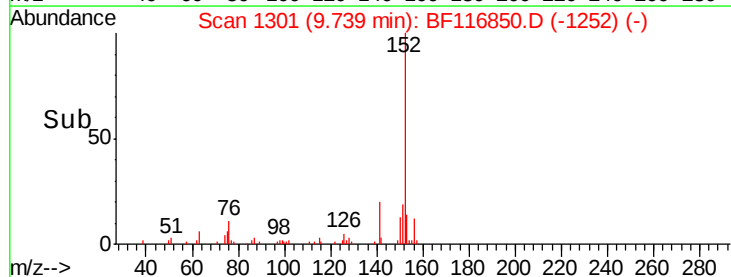
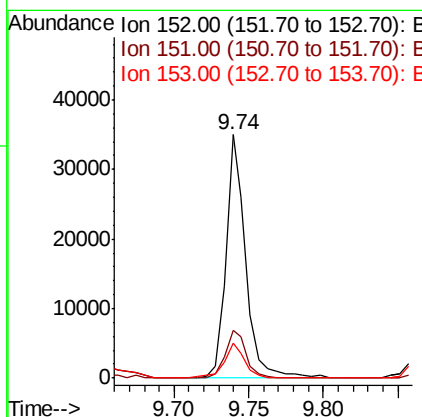
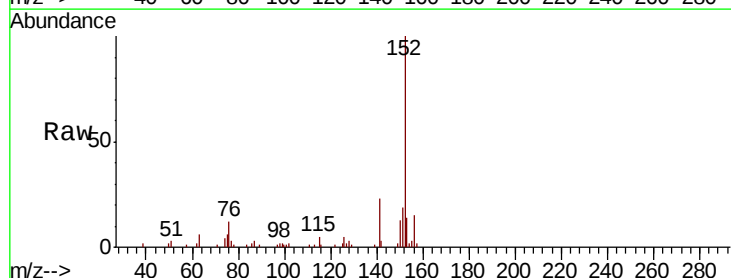
Manual Integrations
APPROVED

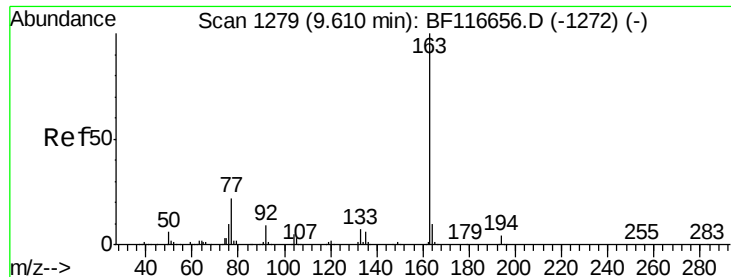
mohammad
9/10/2019 9:55:30 AM



#49
Acenaphthylene
Concen: 2.482 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	32645		
151	19.5		15.9	23.9
153	14.5		10.9	16.3





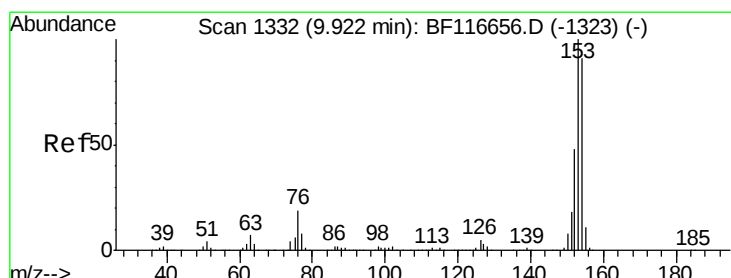
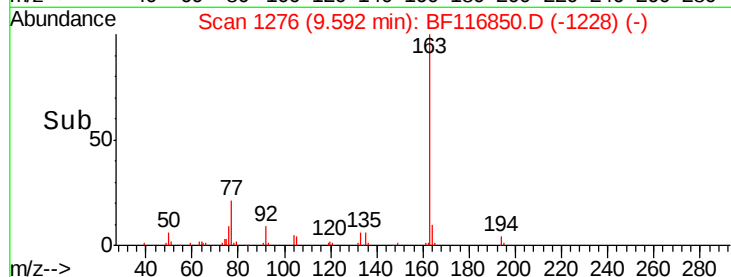
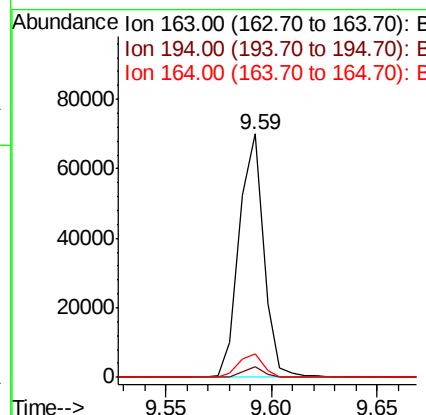
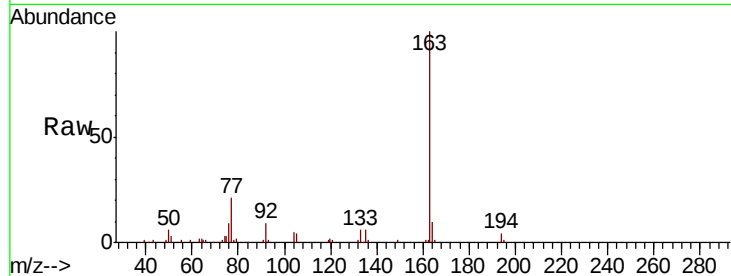
#50
Dimethylphthalate
Concen: 5.617 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion:	163	Resp:	56137
Ion Ratio	Lower	Upper	
163	100		
194	4.1	2.8	4.2
164	9.6	8.6	12.8

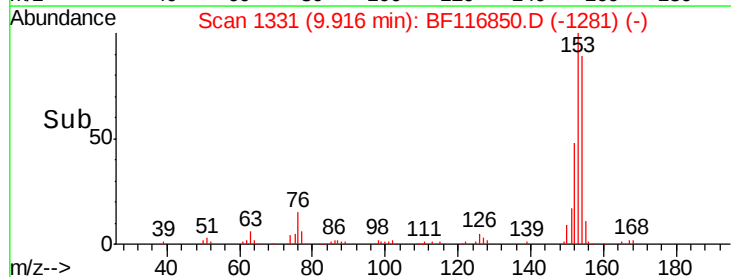
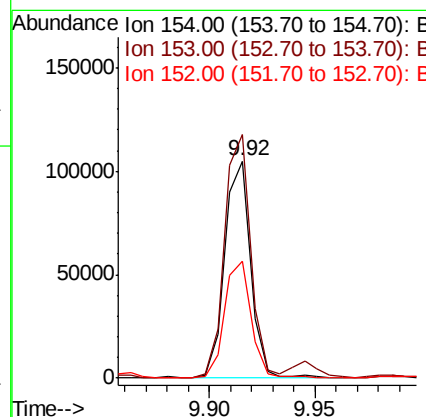
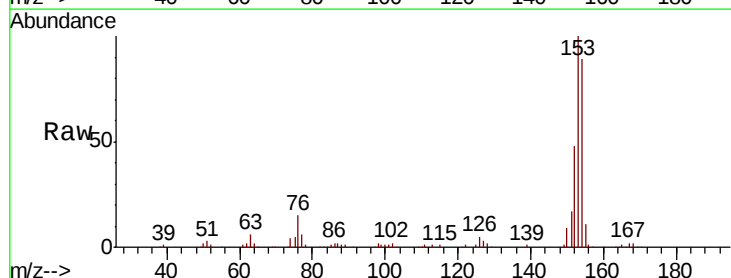
Manual Integrations
APPROVED

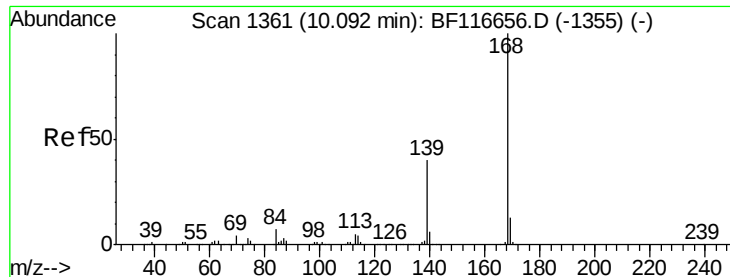
mohammad
9/10/2019 9:55:30 AM



#52
Acenaphthene
Concen: 11.068 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion:	154	Resp:	89439
Ion Ratio	Lower	Upper	
154	100		
153	112.2	89.5	134.3
152	54.1	41.9	62.9





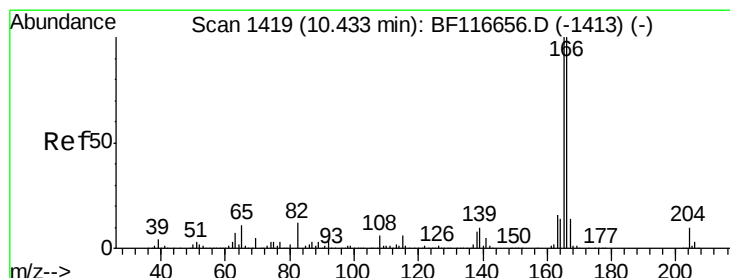
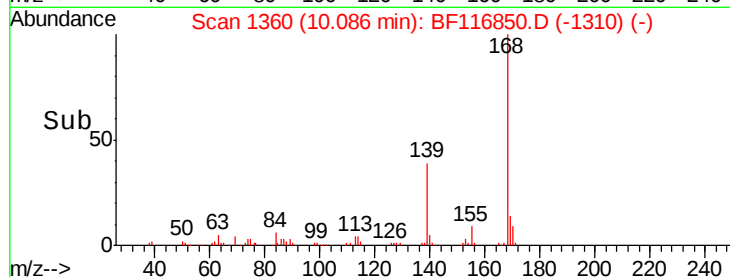
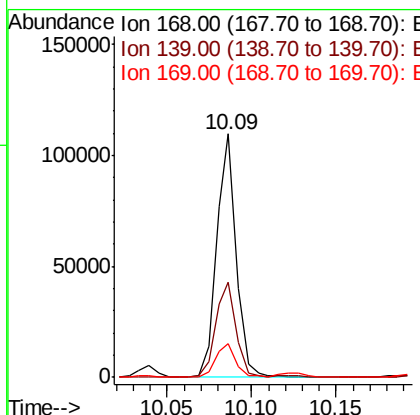
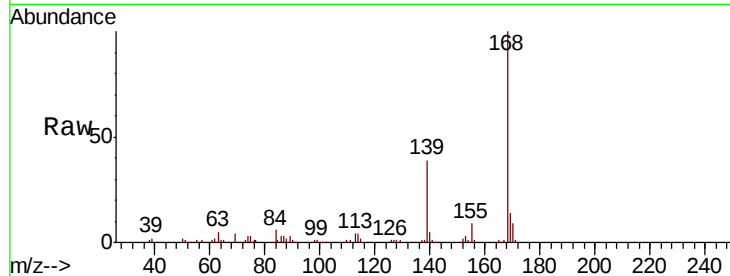
#55
Dibenzenofuran
Concen: 7.789 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.1	31.5	47.3
169	14.1	10.3	15.5

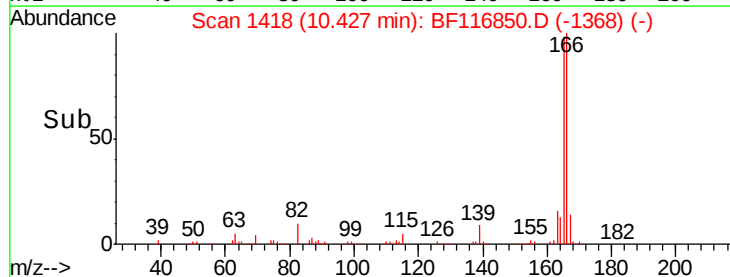
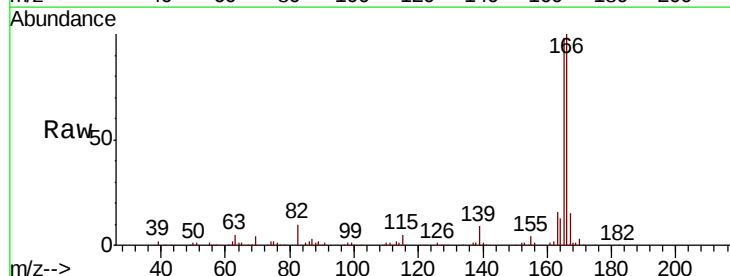
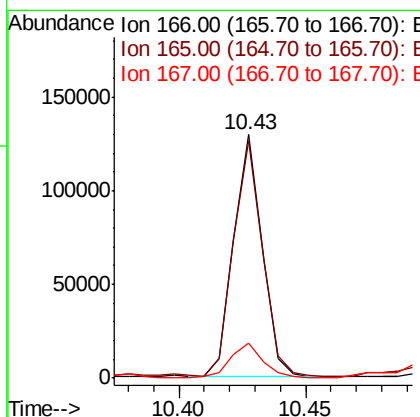
Manual Integrations
APPROVED

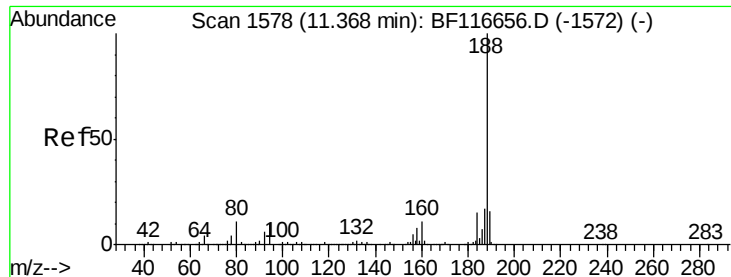
mohammad
9/10/2019 9:55:30 AM



#58
Fluorene
Concen: 11.673 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.8	118.2
167	14.6	10.0	15.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1578

Delta R.T. 0.00 min

Lab File: BF116850.D

Acq: 5 Sep 2019 20:41

Instrument :

BNA_F

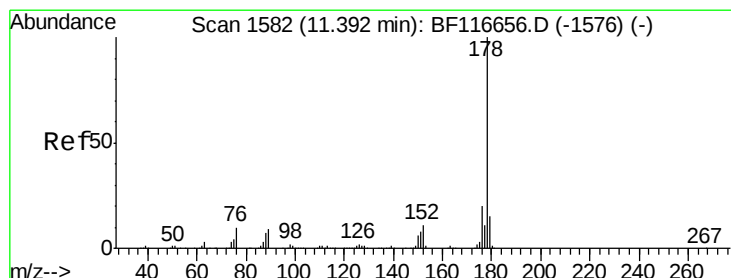
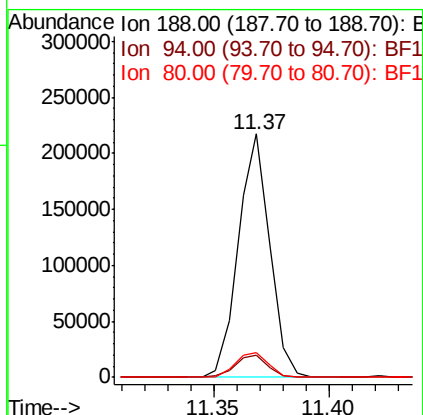
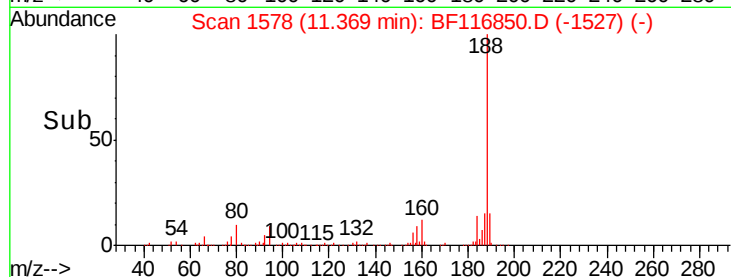
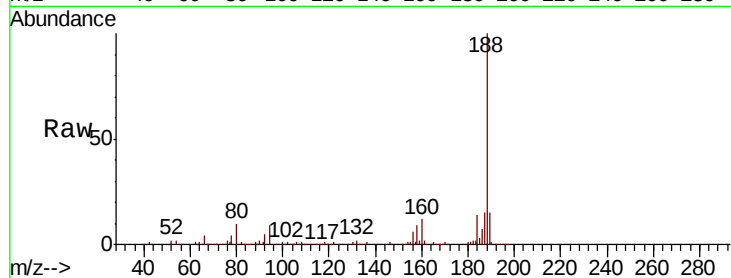
ClientSampleId :

SB-29-COMP

Tot Ion:	188	Resp:	205035
Ion Ratio	Lower	Upper	
188	100		
94	9.0	7.3	10.9
80	10.4	8.4	12.6

Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM



#71

Phenanthrene

Concen: 99.062 ng

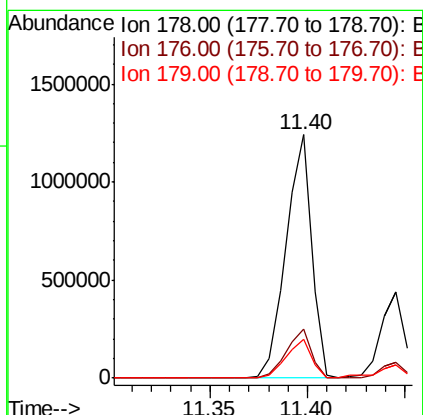
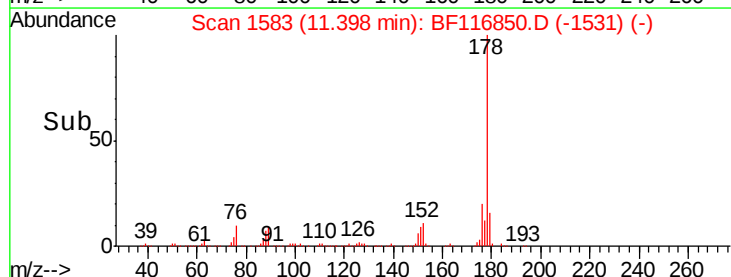
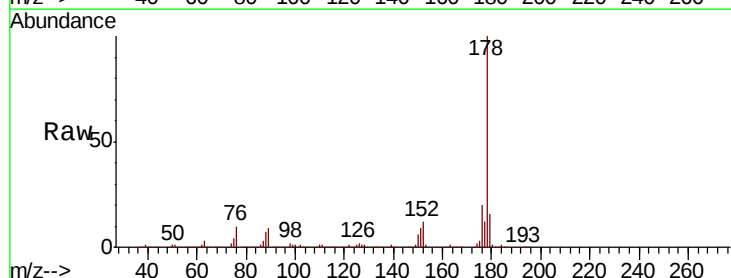
RT: 11.40 min Scan# 1583

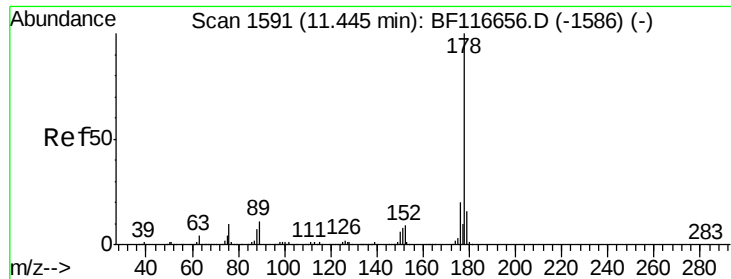
Delta R.T. 0.01 min

Lab File: BF116850.D

Acq: 5 Sep 2019 20:41

Tgt Ion:	178	Resp:	1130646
Ion Ratio	Lower	Upper	
178	100		
176	20.1	15.4	23.0
179	15.8	12.2	18.2





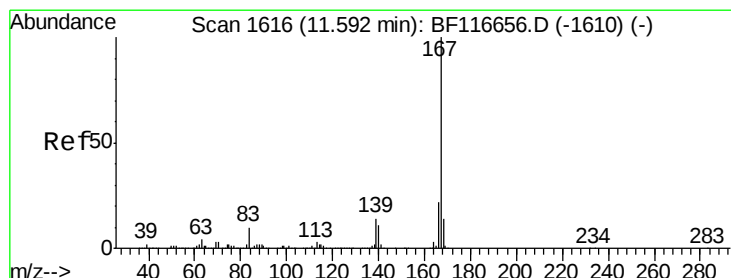
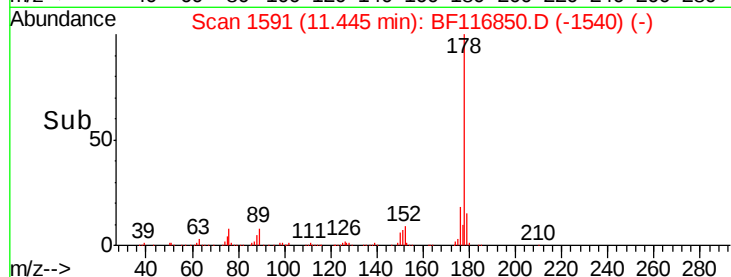
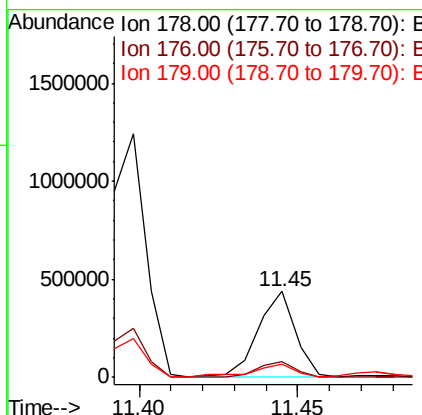
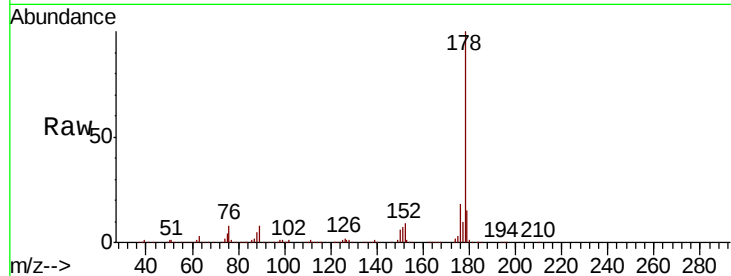
#72
 Anthracene
 Concen: 30.620 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BF116850.D
 Acq: 5 Sep 2019 20:41

Instrument :
 BNA_F
 ClientSampleId :
 SB-29-COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.0
179	15.1	12.5	18.7

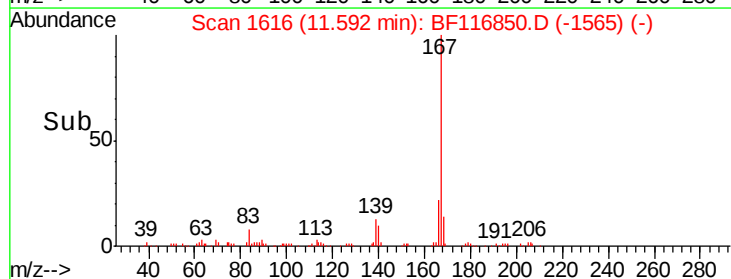
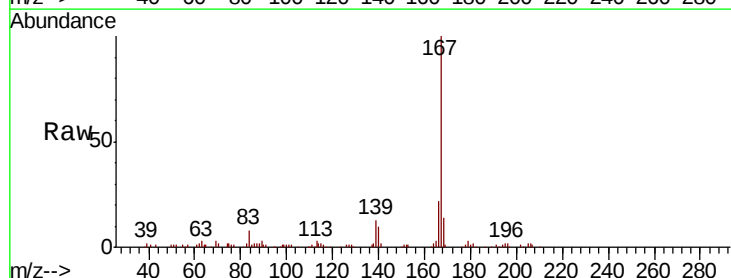
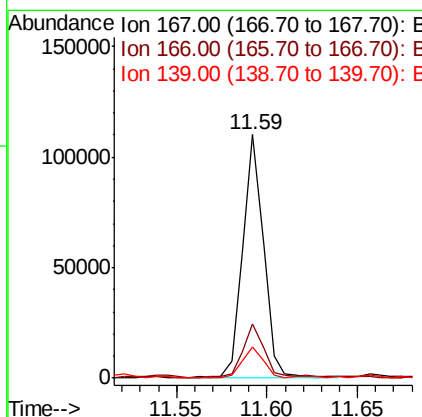
Manual Integrations
 APPROVED

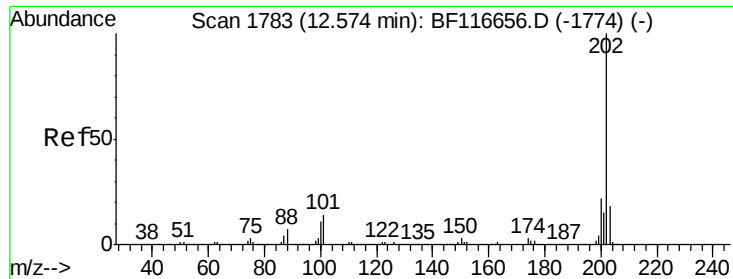
mohammad
 9/10/2019 9:55:30 AM



#73
 Carbazole
 Concen: 8.118 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. 0.00 min
 Lab File: BF116850.D
 Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.8	26.6
139	12.8	11.1	16.7





#75

Fluoranthene

Concen: 134.924 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.02 min

Lab File: BF116850.D

Acq: 5 Sep 2019 20:41

Instrument :

BNA_F

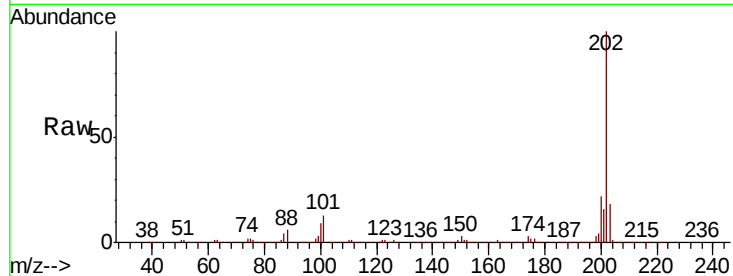
ClientSampleId :

SB-29-COMP

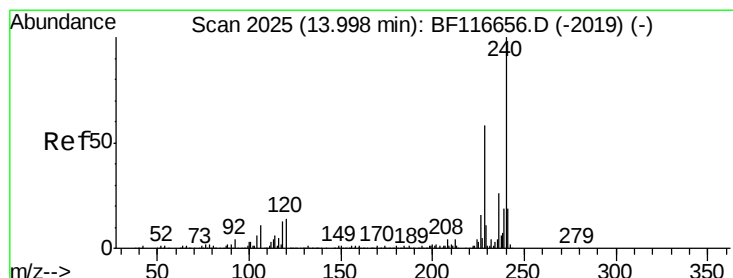
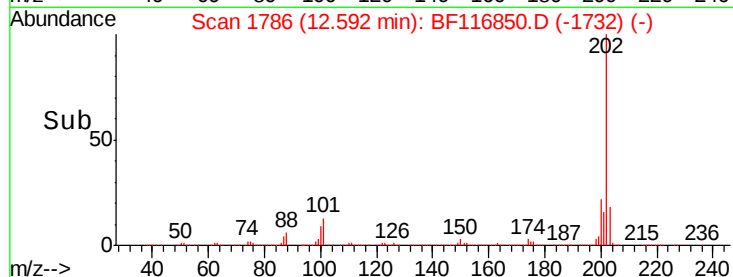
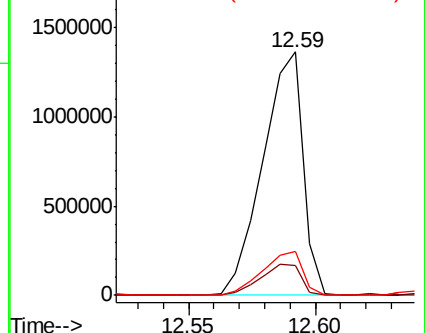
Tot Ion:	202	Resp:	1513405
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	31.3
203	18.0	0.0	37.6

Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM



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

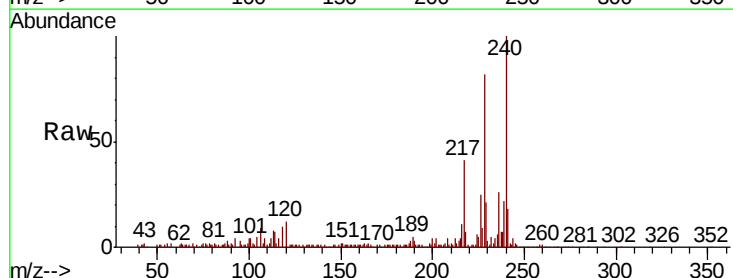
RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

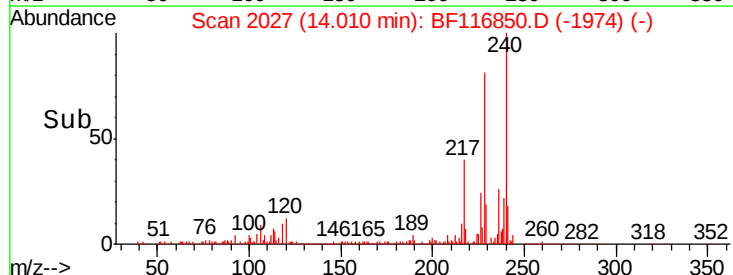
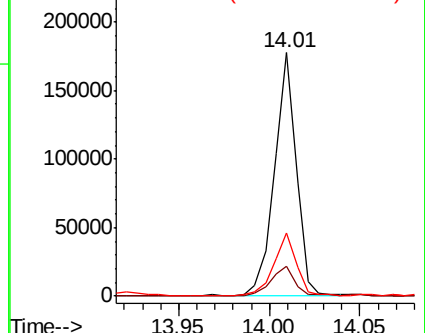
Lab File: BF116850.D

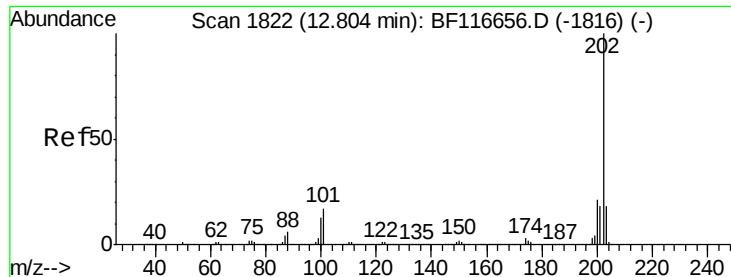
Acq: 5 Sep 2019 20:41

Tgt Ion:	240	Resp:	147306
Ion Ratio	Lower	Upper	
240	100		
120	12.0	9.1	13.7
236	26.1	21.1	31.7



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





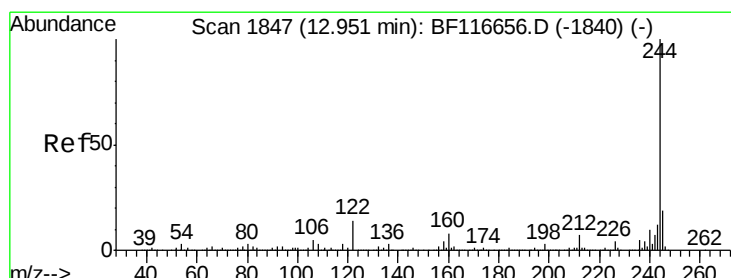
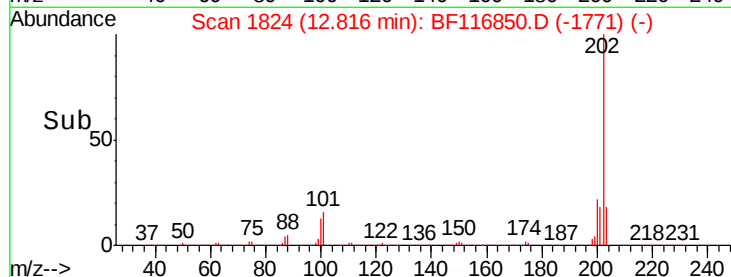
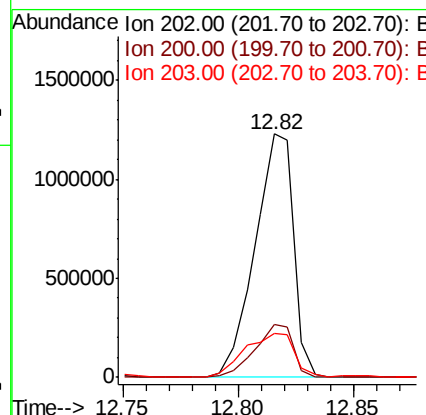
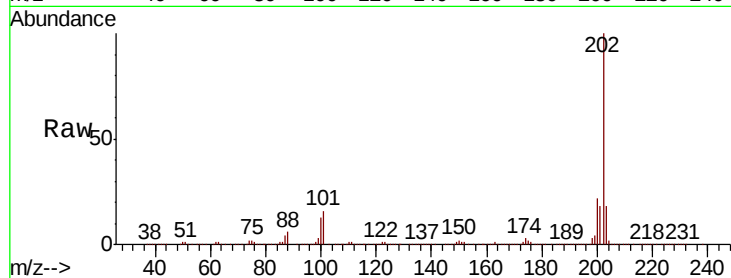
#78
Pvrene
Concen: 109.487 ng
RT: 12.82 min Scan# 1824
Delta R.T. 0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.5	24.7
203	18.1	13.7	20.5

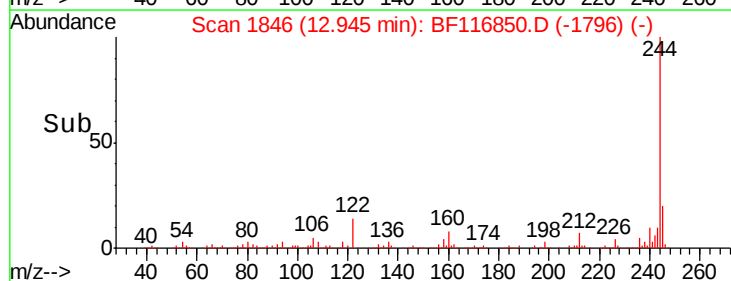
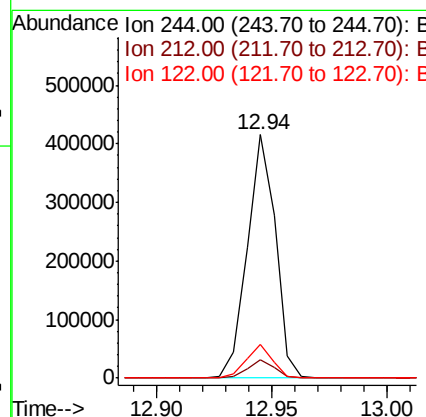
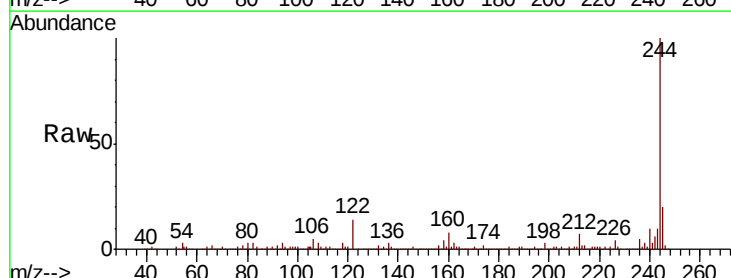
Manual Integrations
APPROVED

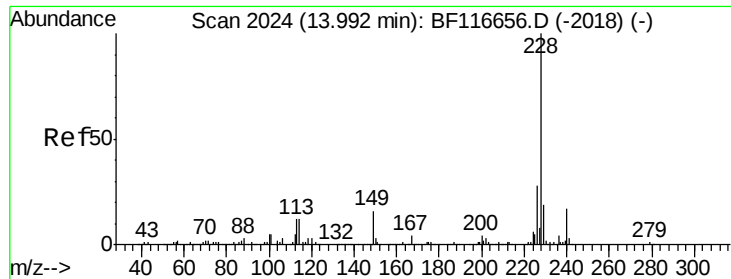
mohammad
9/10/2019 9:55:30 AM



#79
Terphenyl-d14
Concen: 44.719 ng
RT: 12.94 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.1	9.1
122	13.8	10.2	15.4





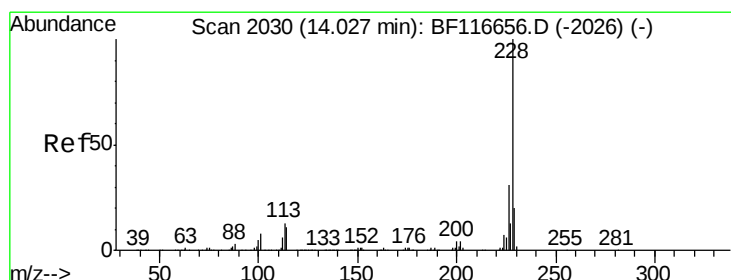
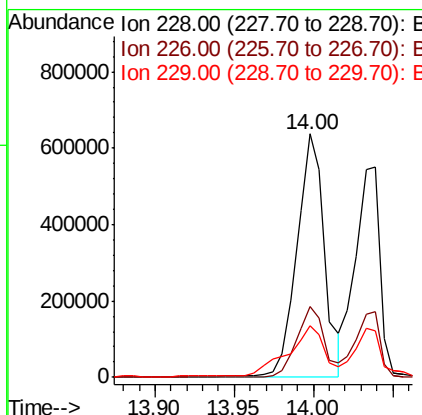
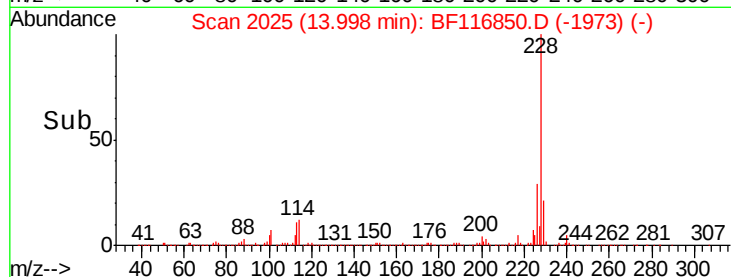
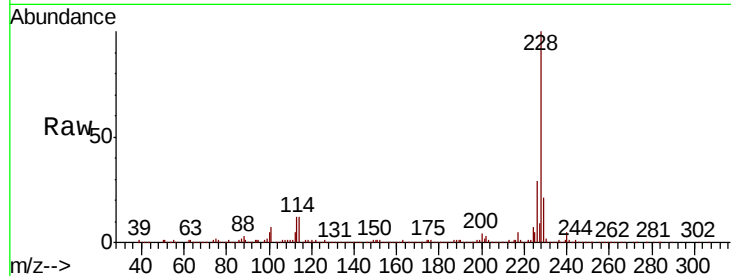
#81
Benzo(a)anthracene
Concen: 82.123 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.0	33.0
229	21.3	16.4	24.6

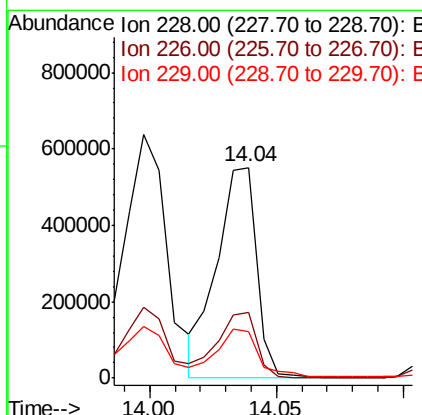
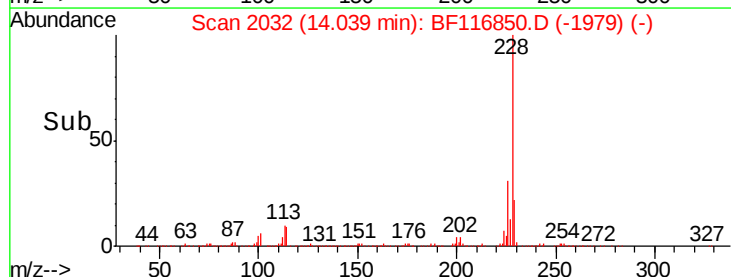
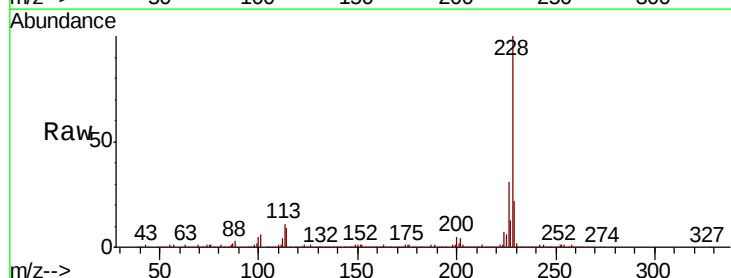
Manual Integrations
APPROVED

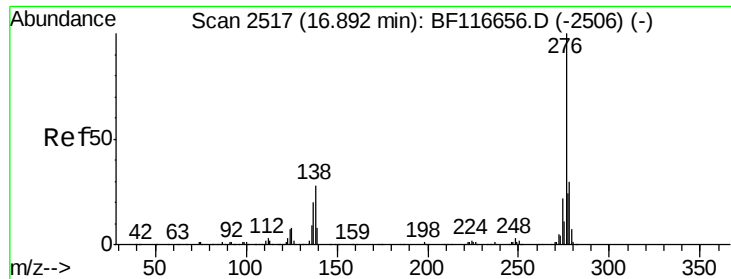
mohammad
9/10/2019 9:55:30 AM



#83
Chrysene
Concen: 62.346 ng
RT: 14.04 min Scan# 2032
Delta R.T. 0.01 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.0	36.0
229	21.9	15.4	23.0





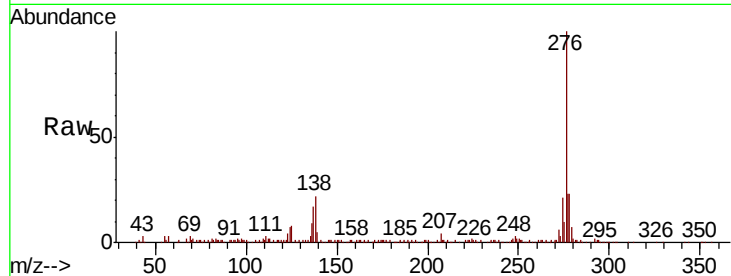
#86
Indeno(1,2,3-cd)pyrene
Concen: 28.387 ng
RT: 16.93 min Scan# 2523
Delta R.T. 0.04 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.0	19.4	29.2
277	24.2	20.5	30.7

Manual Integrations
APPROVED

mohammad
9/10/2019 9:55:30 AM

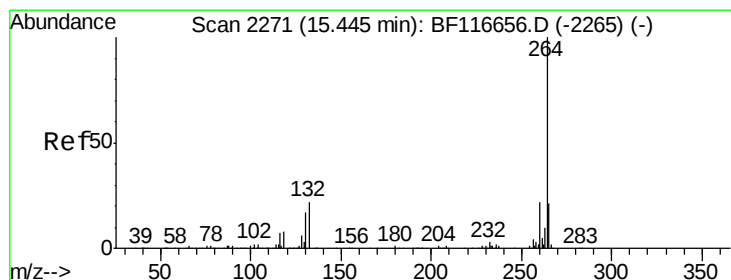
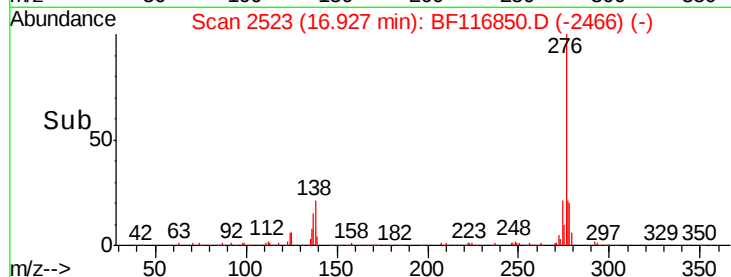
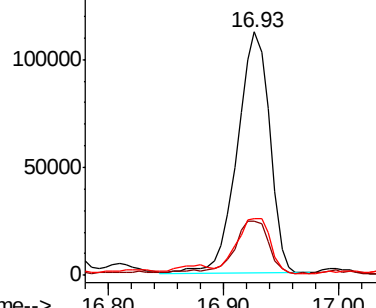


Abundance

Ion 276.00 (275.70 to 276.70): E

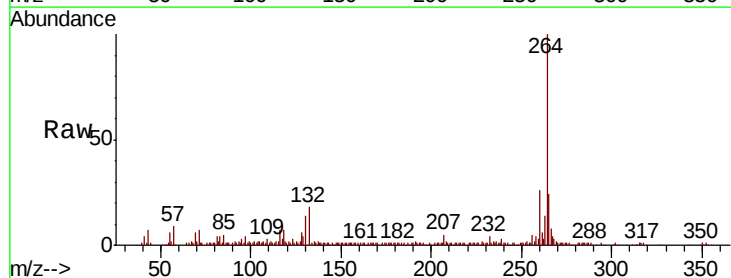
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.02 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.6	18.3	27.5
265	24.3	16.5	24.7

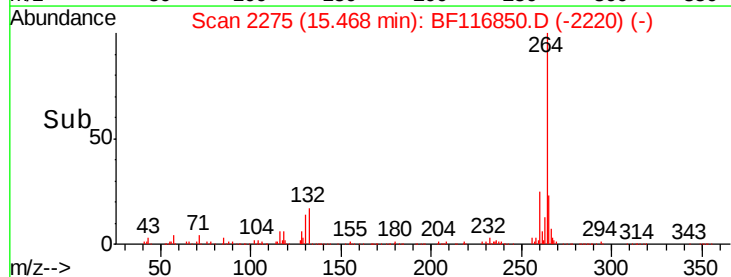
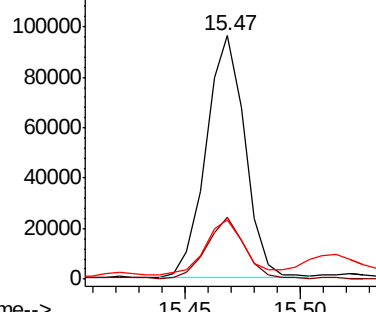


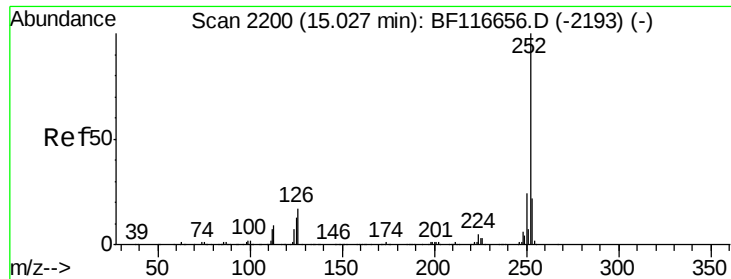
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





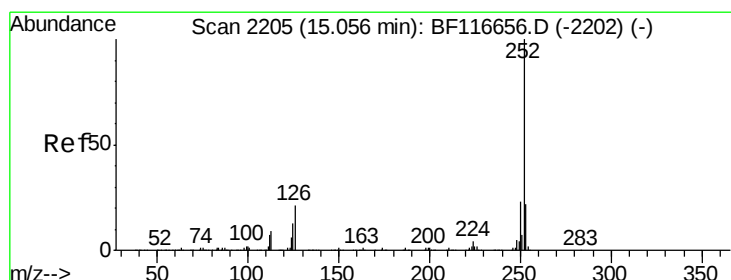
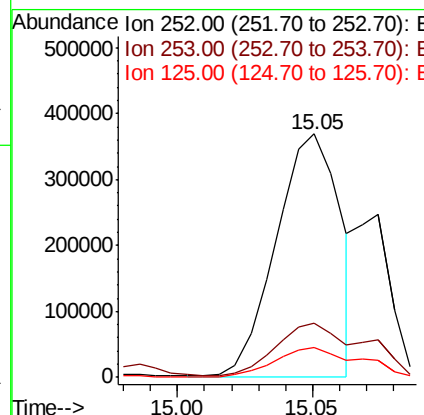
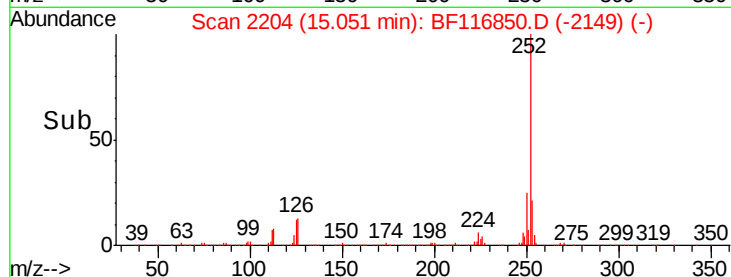
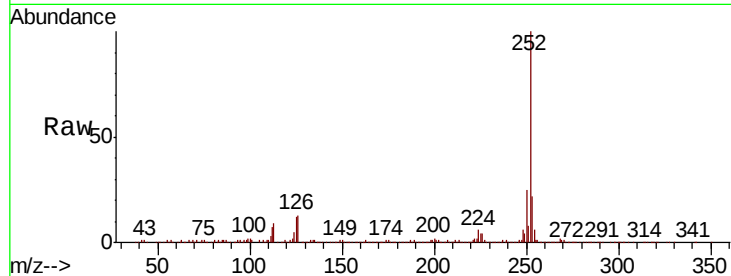
#88
Benzo(b)fluoranthene
Concen: 90.304 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.02 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	12.2	8.2	12.2

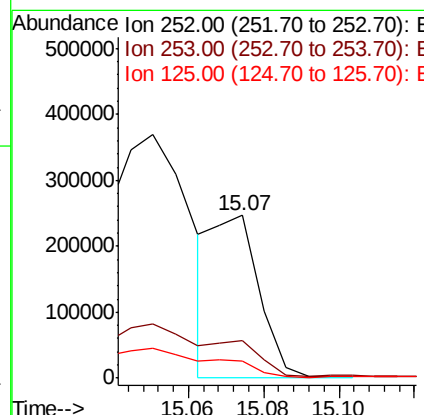
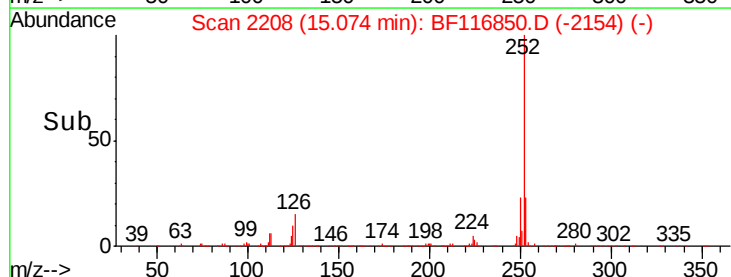
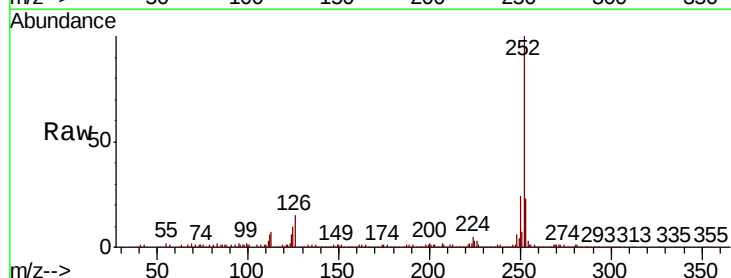
Manual Integrations
APPROVED

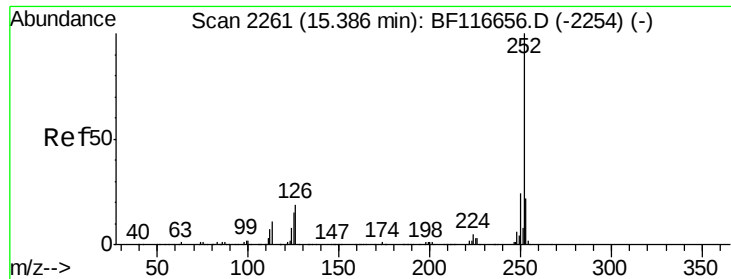
mohammad
9/10/2019 9:55:30 AM



#89
Benzo(k)fluoranthene
Concen: 34.365 ng m
RT: 15.07 min Scan# 2208
Delta R.T. 0.02 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.7	26.5
125	10.2	8.6	13.0





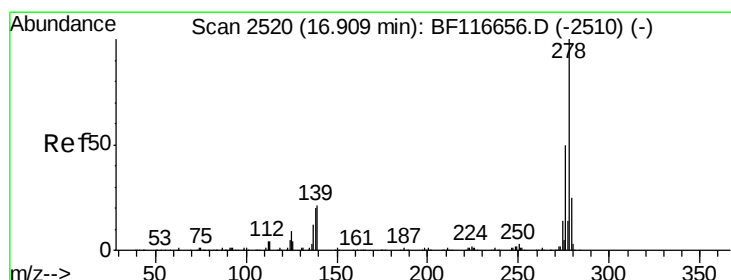
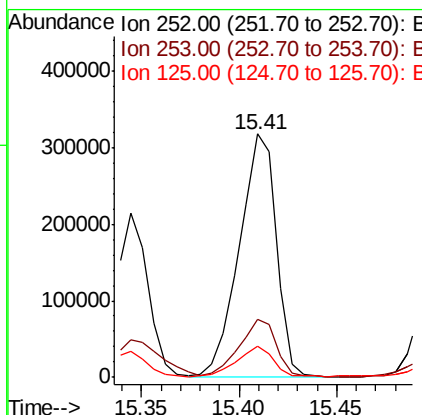
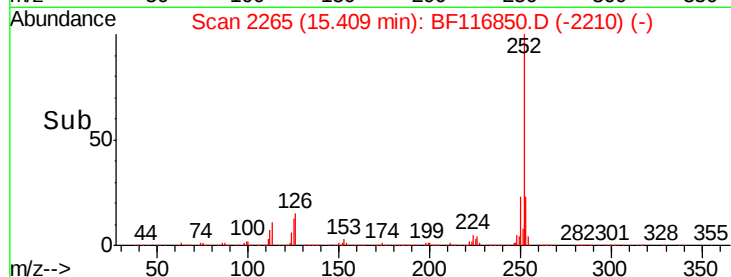
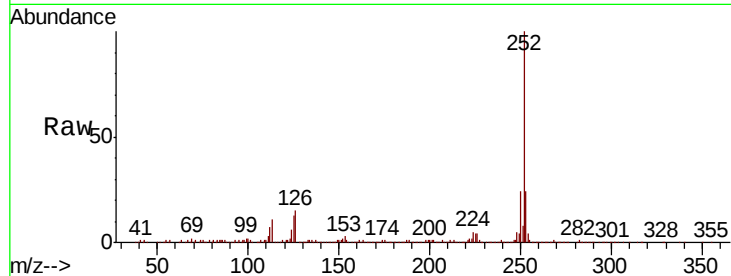
#90
Benzo(a)pyrene
Concen: 70.219 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Instrument :
BNA_F
ClientSampleId :
SB-29-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	12.8	9.8	14.8

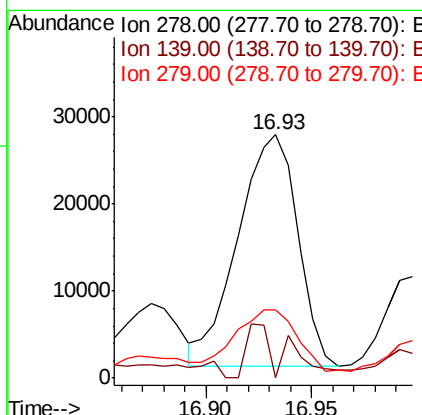
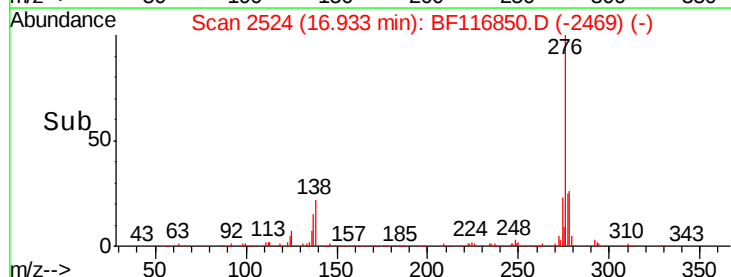
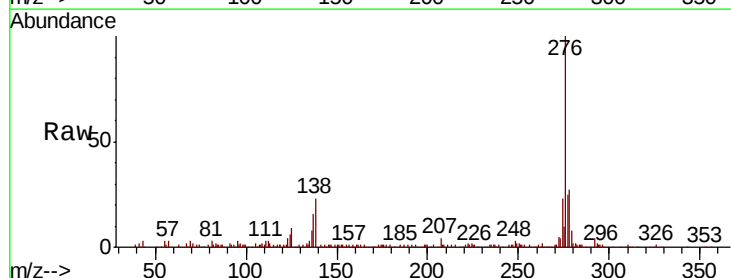
Manual Integrations
APPROVED

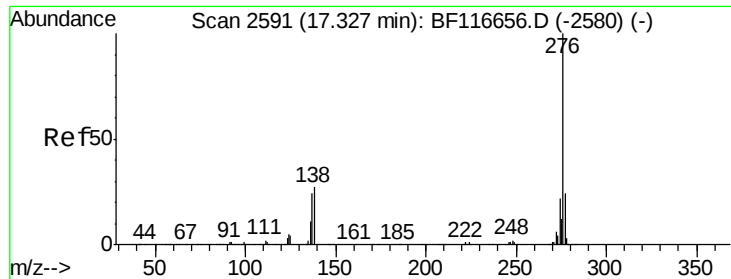
mohammad
9/10/2019 9:55:30 AM



#91
Dibenzo(a,h)anthracene
Concen: 10.158 ng
RT: 16.93 min Scan# 2524
Delta R.T. 0.02 min
Lab File: BF116850.D
Acq: 5 Sep 2019 20:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.4	18.6#
279	28.1	18.2	27.4#





#92
 Benzo(a,h,i)perylene
 Concen: 39.015 ng
 RT: 17.37 min Scan# 2599
 Delta R.T. 0.05 min
 Lab File: BF116850.D
 Acq: 5 Sep 2019 20:41

Instrument :
 BNA_F
 ClientSampleId :
 SB-29-COMP

Tot Ion:	276	Resp:	205702
Ion Ratio	Lower	Upper	
276	100		
277	25.5	18.5	27.7
138	22.8	16.2	24.2

Manual Integrations
 APPROVED

mohammad
 9/10/2019 9:55:30 AM

