

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030719\
 Data File : BF112935.D
 Acq On : 7 Mar 2019 21:34
 Operator : JU/SJ
 Sample : K1753-01DL 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-5DL

Manual Integrations
 APPROVED

Sohil
 3/8/2019 9:26:15 AM

Quant Time: Mar 08 01:19:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	200305	20.00	ng	-0.01
21) Naphthalene-d8	8.01	136	795780	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	370576	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	683614	20.00	ng	0.00
76) Chrysene-d12	13.86	240	496827	20.00	ng	-0.01
87) Perylene-d12	15.27	264	576692	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	567024	44.03	ng	-0.01
7) Phenol-d6	6.36	99	752628	46.53	ng	0.00
23) Nitrobenzene-d5	7.29	82	438682	32.99	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	214952	54.64	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	856533	32.27	ng	-0.01
79) Terphenyl-d14	12.82	244	689928	26.92	ng	-0.01
Target Compounds						
49) Acenaphthylene	9.62	152	105200	2.626	ng	97
55) Dibenzofuran	9.96	168	76794	2.255	ng	94
58) Fluorene	10.30	166	57475	2.378	ng	99
71) Phenanthrene	11.26	178	1165847	34.277	ng	99
73) Carbazole	11.46	167	98343	2.832	ng	99
75) Fluoranthene	12.44	202	1331350	36.535	ng	98
78) Pyrene	12.67	202	1021141	24.380	ng	100
81) Benzo(a)anthracene	13.85	228	437232m	12.698	ng	
83) Chrysene	13.89	228	559093	16.576	ng	97
86) Indeno(1,2,3-cd)pyrene	16.62	276	341669m	11.882	ng	
88) Benzo(b)fluoranthene	14.87	252	774099m	20.752	ng	
89) Benzo(k)fluoranthene	14.89	252	256154m	7.581	ng	
90) Benzo(a)pyrene	15.21	252	448088	13.581	ng	97
91) Dibenzo(a,h)anthracene	16.63	278	86003m	3.055	ng	
92) Benzo(a,h,i)perylene	17.02	276	282143	9.980	ng	97

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

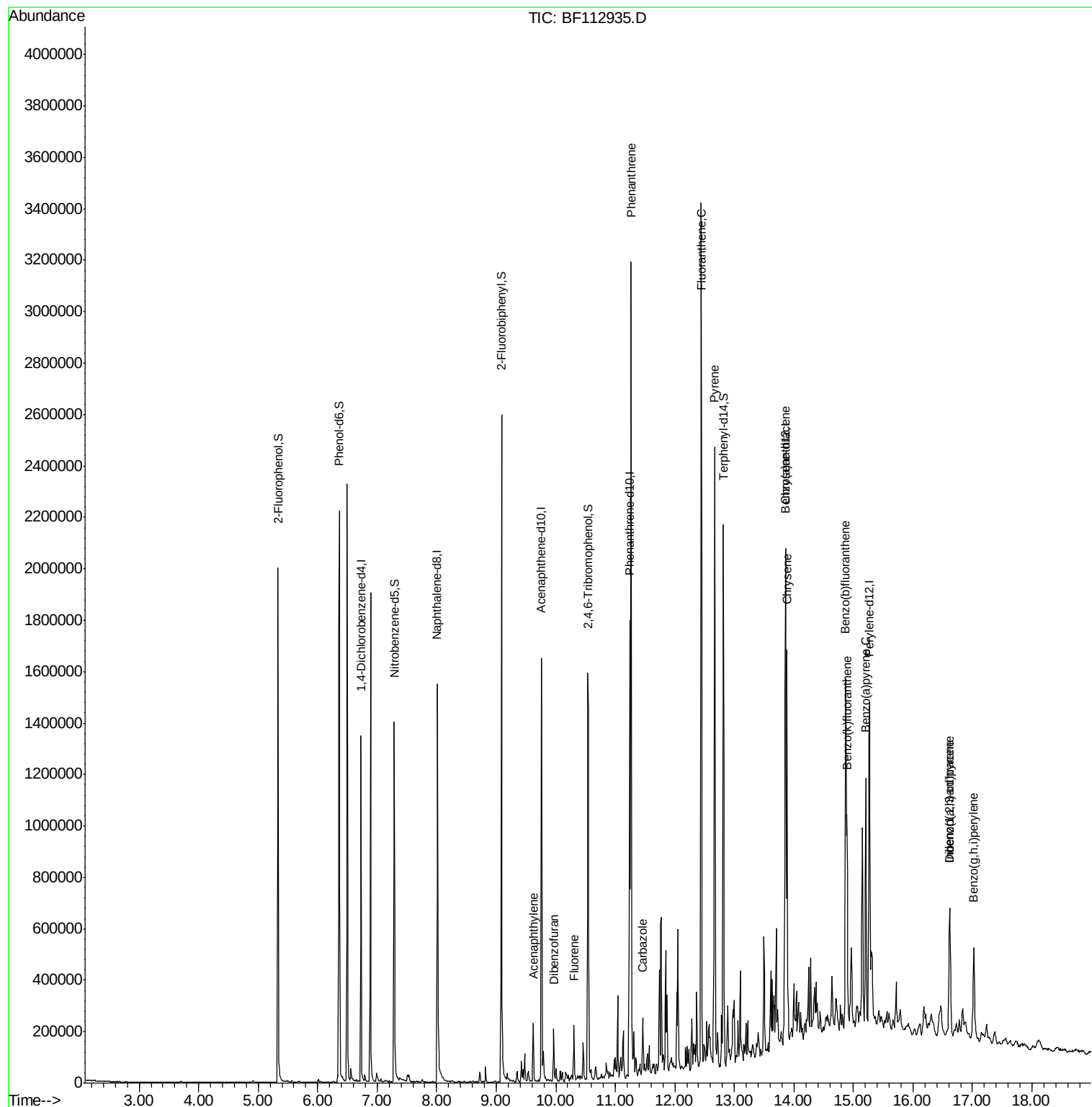
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030719\
Data File : BF112935.D
Acq On : 7 Mar 2019 21:34
Operator : JU/SJ
Sample : K1753-01DL 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

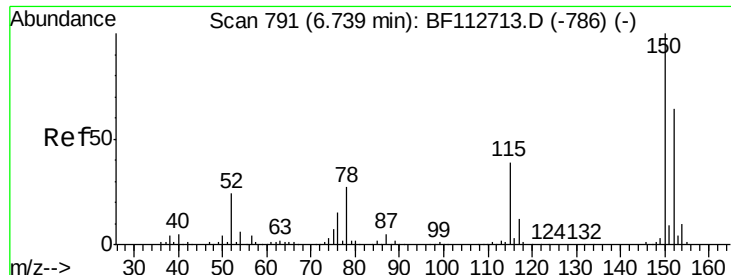
Instrument :
BNA_F
ClientSampled :
Z-2-5DL

Manual Integrations
APPROVED

Sohil
3/8/2019 9:26:15 AM

Quant Time: Mar 08 01:19:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 01 15:40:43 2019
Response via : Initial Calibration





#1

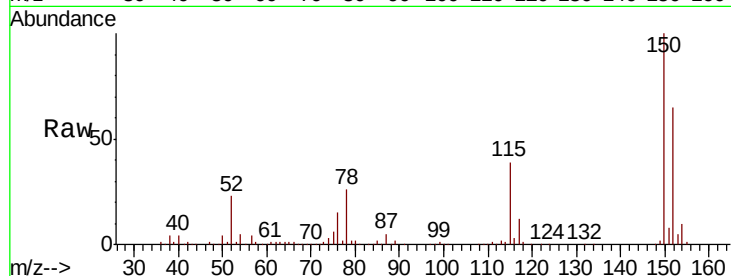
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampleId :
Z-2-5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.2	186.2
115	59.3	48.2	72.4

Manual Integrations
APPROVED

Sohil
3/8/2019 9:26:15 AM

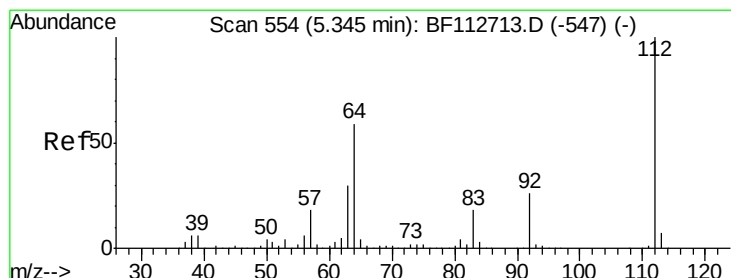
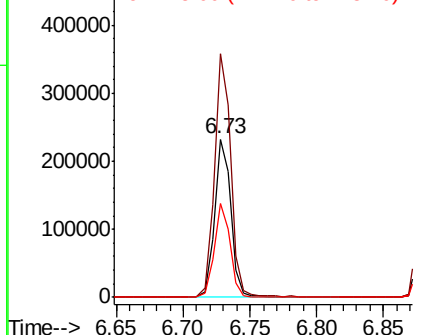
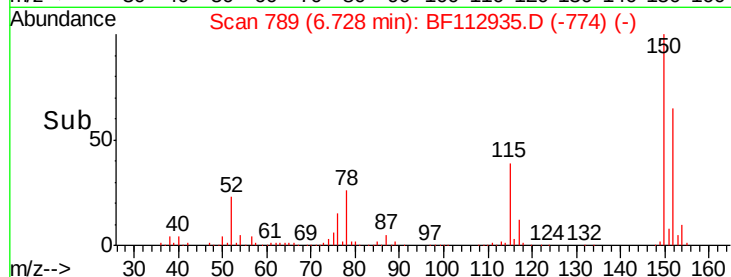


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

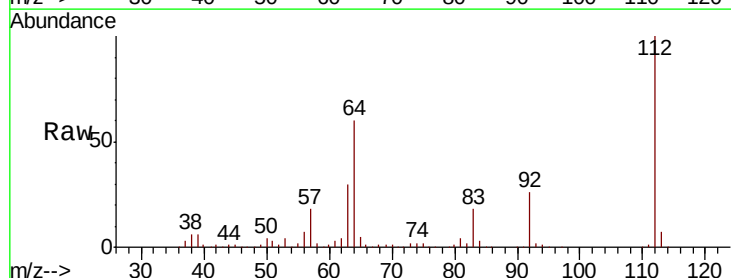
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 44.034 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.0	47.6	71.4
63	29.5	24.4	36.6

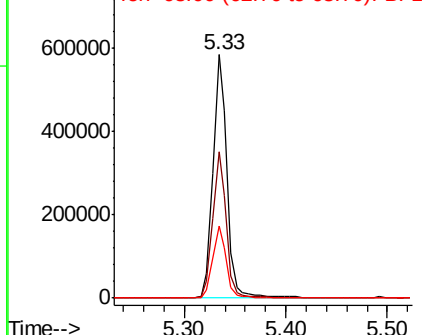
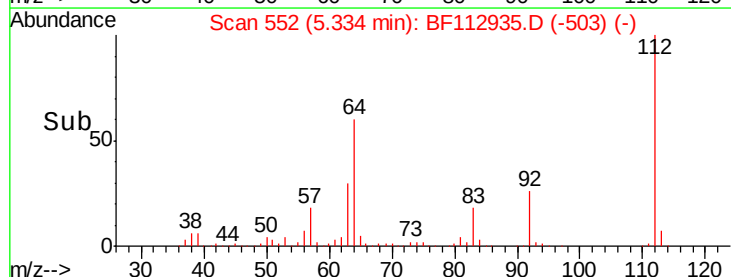


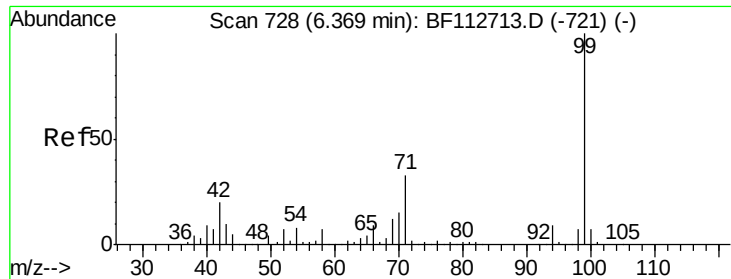
Abundance

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: 46.529 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF112935.D

Acq: 7 Mar 2019 21:34

Instrument :

BNA_F

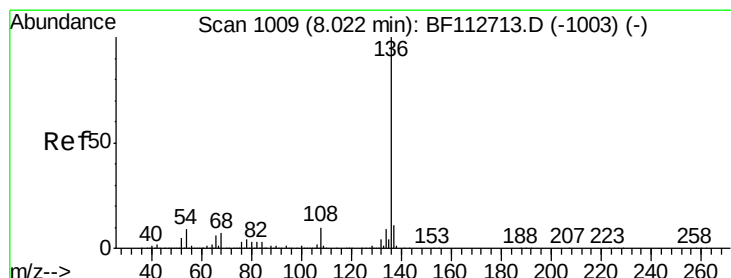
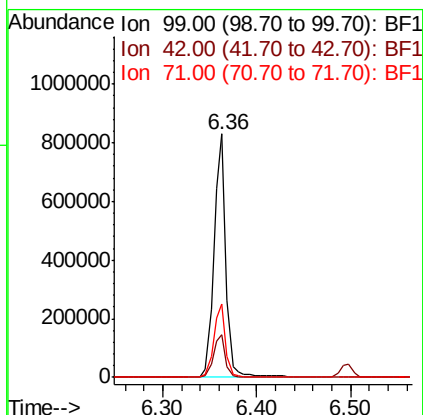
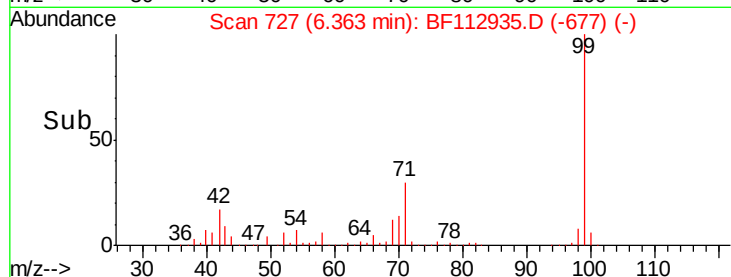
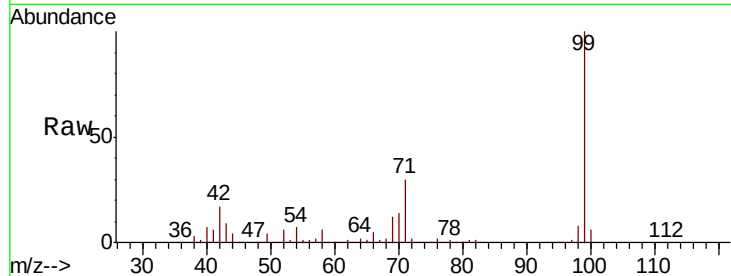
ClientSampled :

Z-2-5DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		752628		
42	17.3	16.3	24.5		
71	29.9	26.2	39.4		

Manual Integrations
APPROVED

Sohil
3/8/2019 9:26:15 AM



#21

Naphthalene-d8

Concen: 20.000 ng

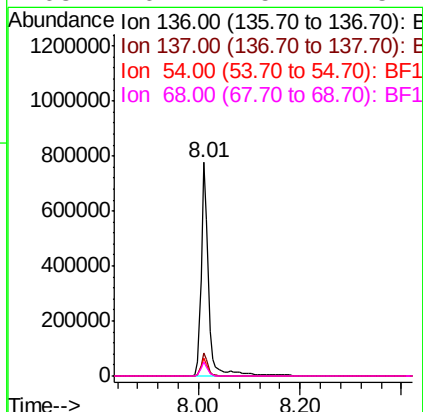
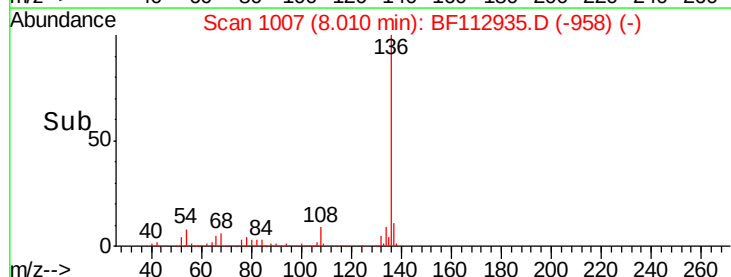
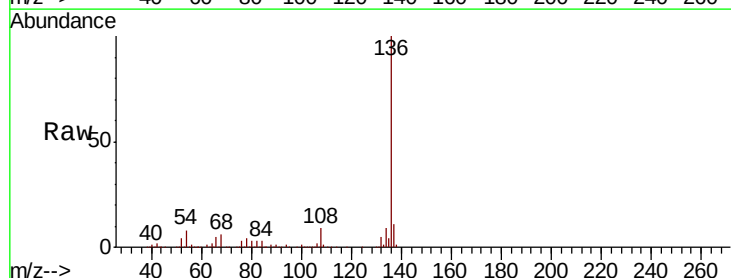
RT: 8.01 min Scan# 1007

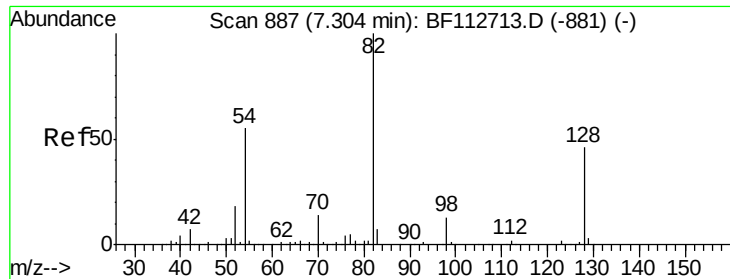
Delta R.T. -0.01 min

Lab File: BF112935.D

Acq: 7 Mar 2019 21:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		795780		
137	11.1	8.9	13.3		
54	8.4	7.3	10.9		
68	6.4	5.4	8.2		





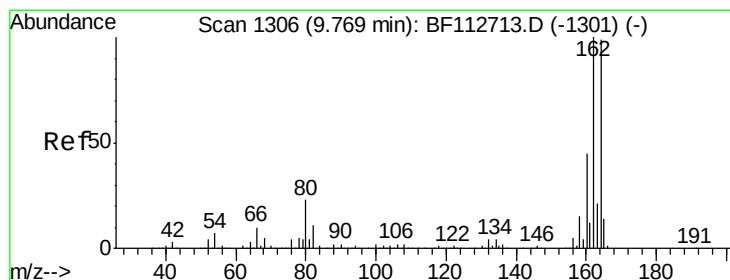
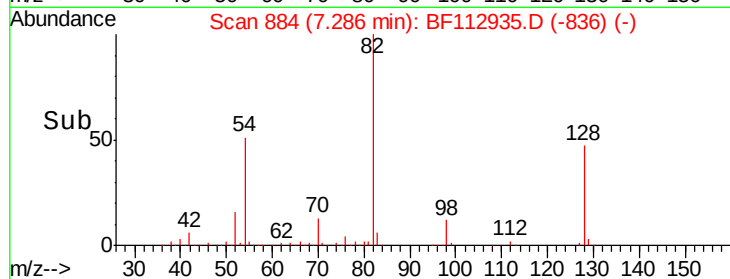
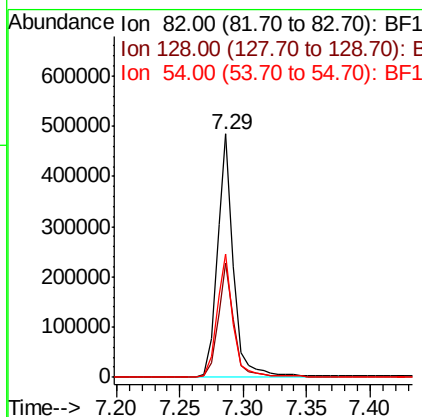
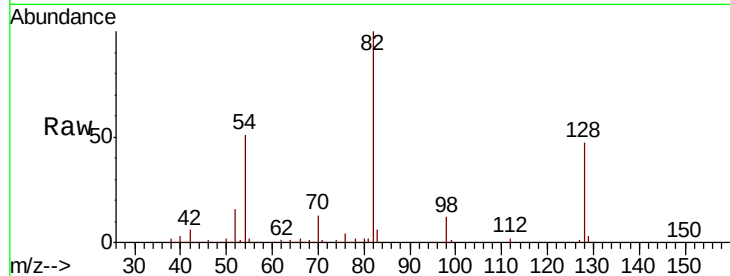
#23
Nitrobenzene-d5
Concen: 32.986 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.02 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampled :
Z-2-5DL

Tot Ion	82	Resp	438682
Ion Ratio	100	Lower	Upper
128	47.2	36.3	54.5
54	50.7	43.7	65.5

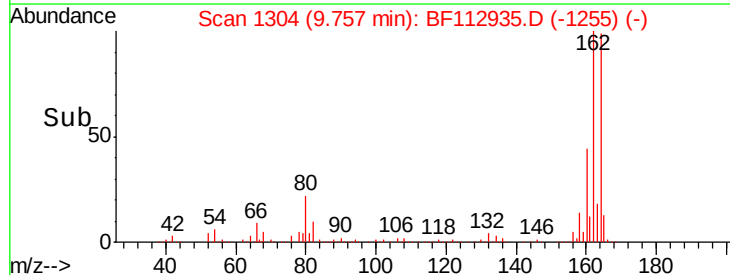
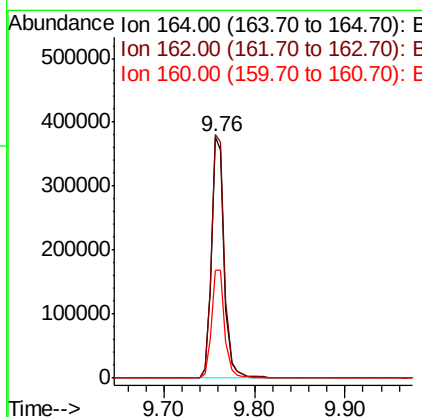
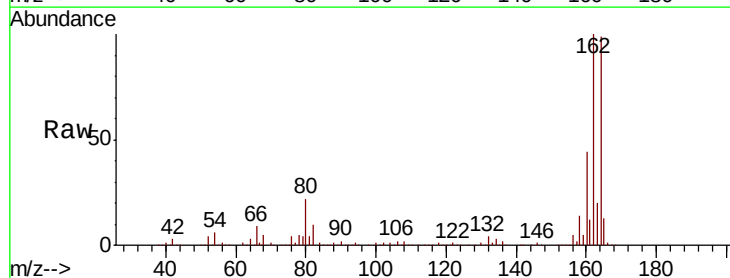
Manual Integrations
APPROVED

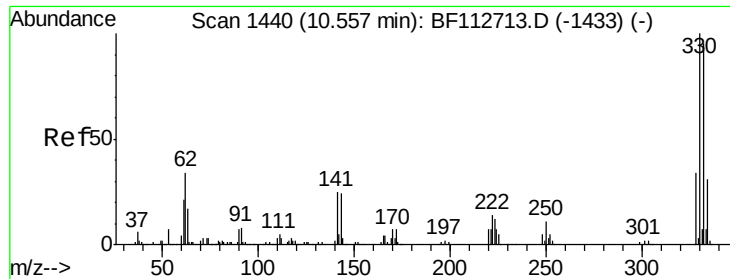
Sohil
3/8/2019 9:26:15 AM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	164	Resp	370576
Ion Ratio	100	Lower	Upper
162	100.9	80.6	120.8
160	44.6	36.0	54.0





#42

2,4,6-Tribromophenol

Concen: 54.638 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF112935.D

Acq: 7 Mar 2019 21:34

Instrument :

BNA_F

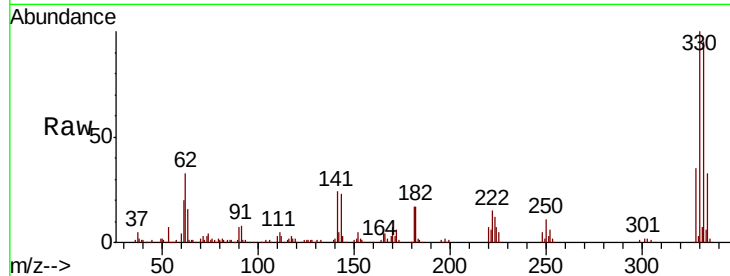
ClientSampled :

Z-2-5DL

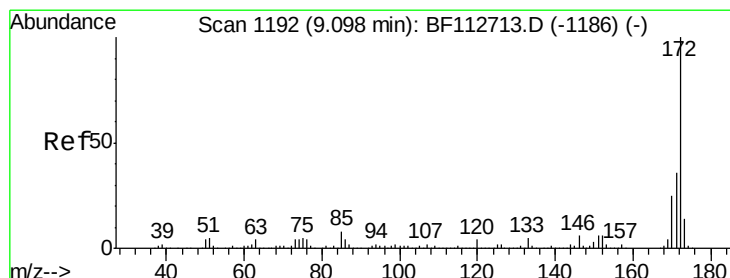
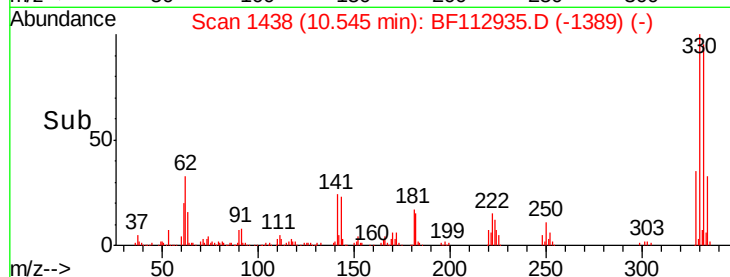
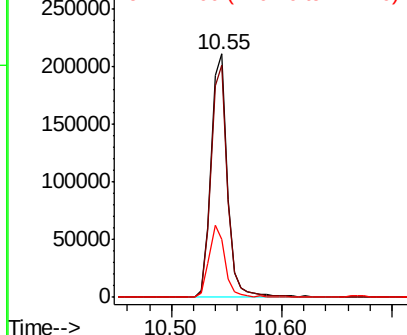
Tot Ion:	330	Resp:	214952
Ion Ratio	Lower	Upper	
330	100		
332	95.8	76.2	114.4
141	29.2	27.0	40.6

Manual Integrations
APPROVED

Sohil
3/8/2019 9:26:15 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: 32.266 ng

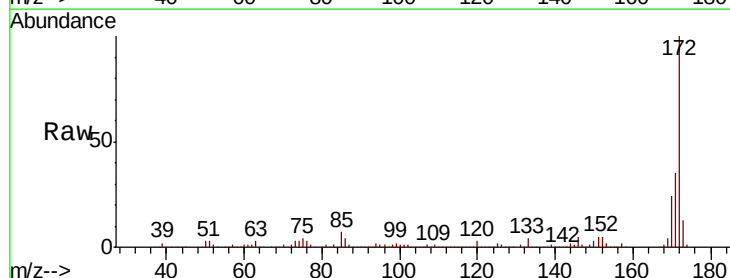
RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

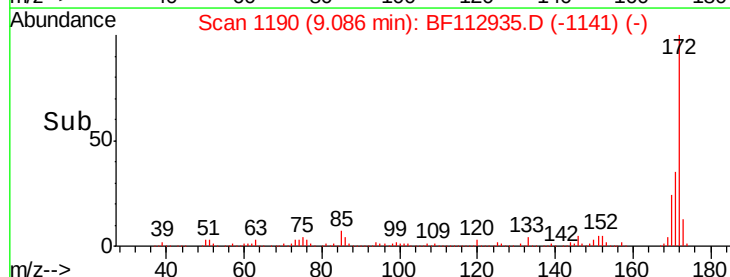
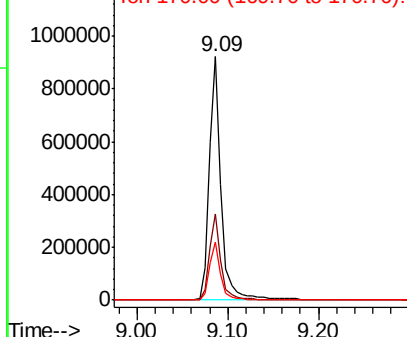
Lab File: BF112935.D

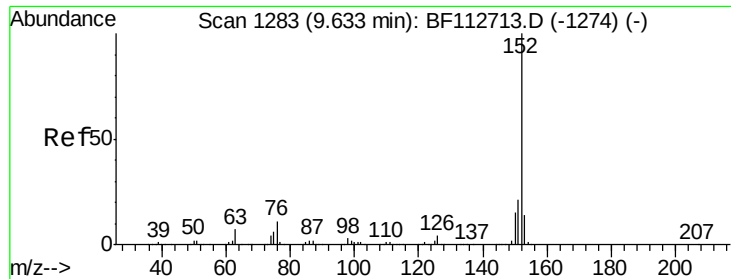
Acq: 7 Mar 2019 21:34

Tgt Ion:	172	Resp:	856533
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.0	43.4
170	23.7	20.0	30.0



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





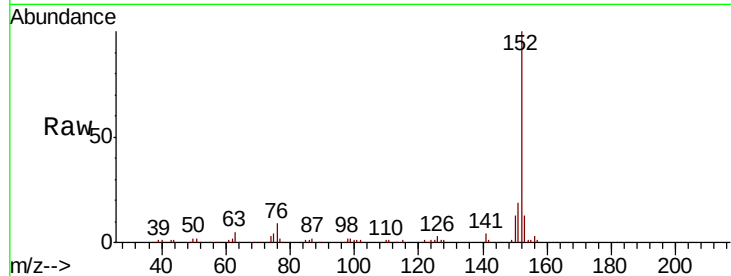
#49
Acenaphthylene
Concen: 2.626 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampled :
Z-2-5DL

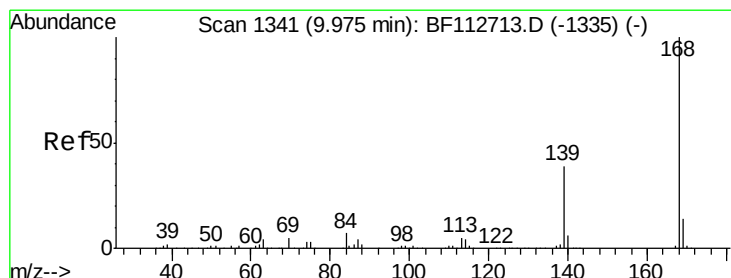
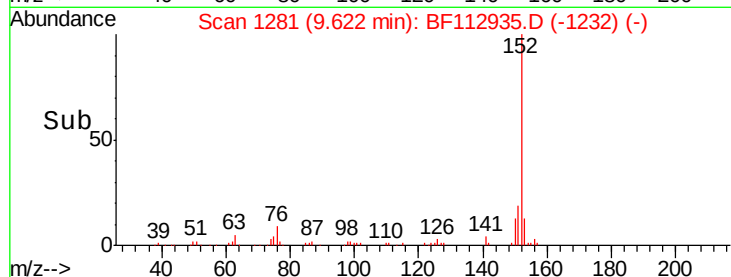
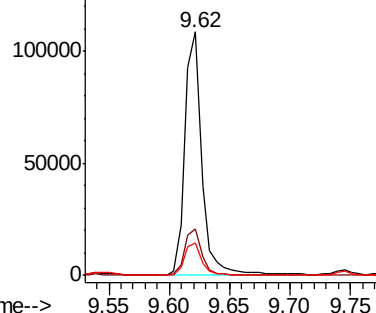
Tot Ion:	152	Resp:	105200
Ion Ratio	Lower	Upper	
152	100		
151	19.2	16.9	25.3
153	13.1	11.0	16.6

Manual Integrations
APPROVED

Sohil
3/8/2019 9:26:15 AM



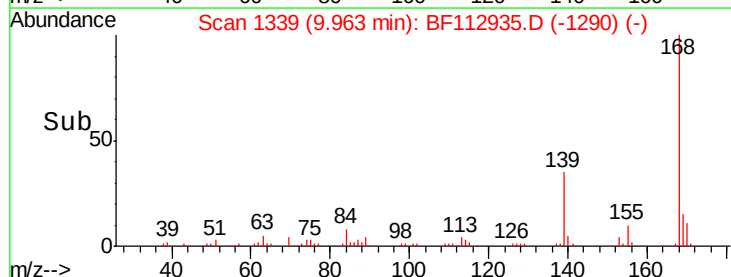
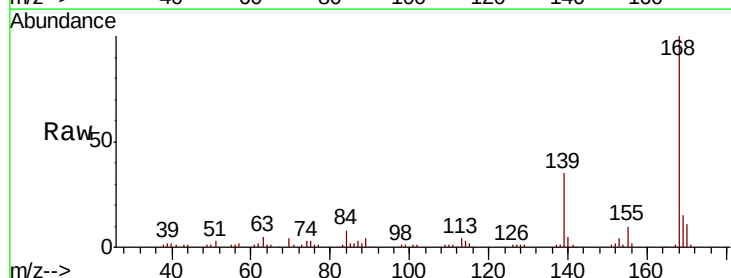
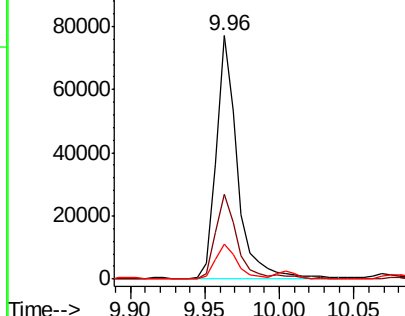
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

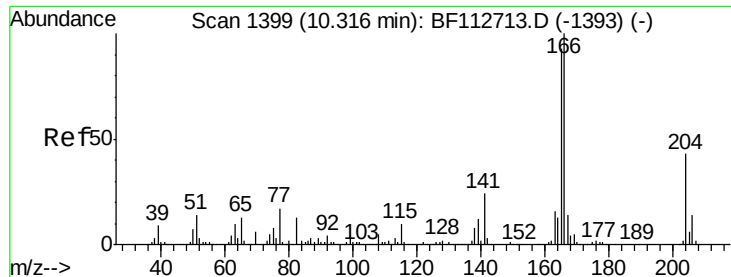


#55
Dibenzofuran
Concen: 2.255 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion:	168	Resp:	76794
Ion Ratio	Lower	Upper	
168	100		
139	34.7	31.3	46.9
169	14.5	11.3	16.9

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





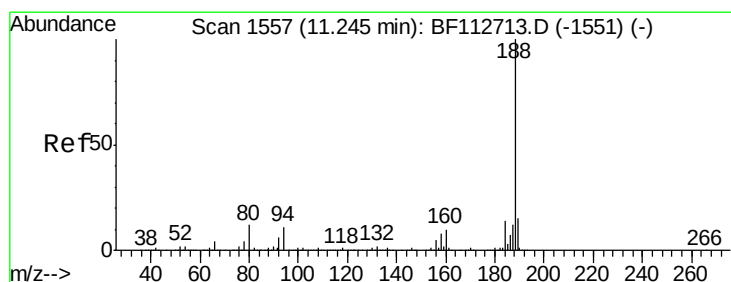
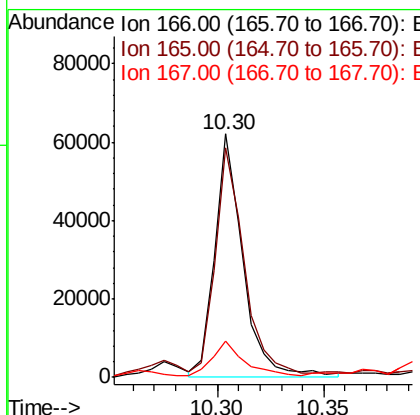
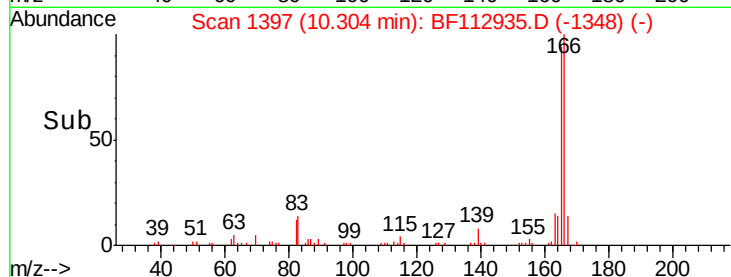
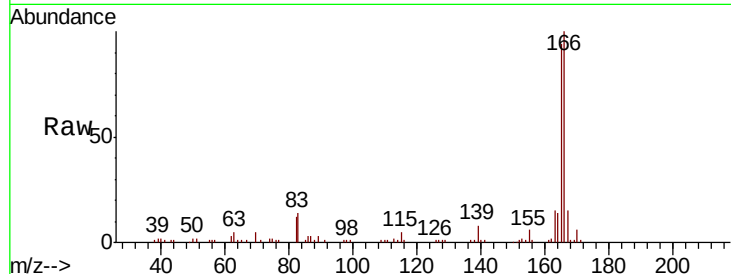
#58
 Fluorene
 Concen: 2.378 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF112935.D
 Acq: 7 Mar 2019 21:34

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-5DL

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	94.1	74.7	112.1	
167	14.9	11.0	16.6	

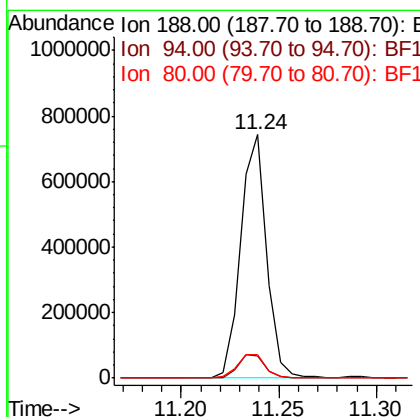
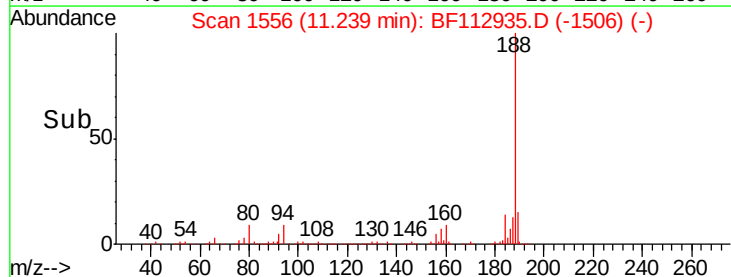
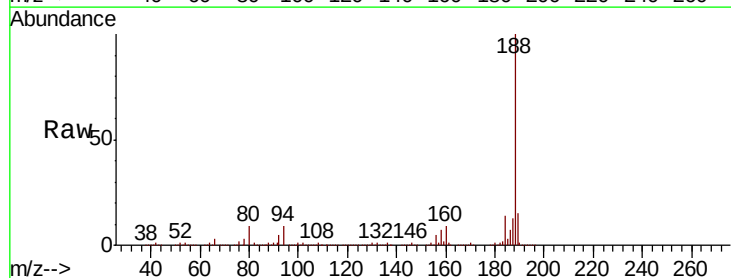
Manual Integrations
 APPROVED

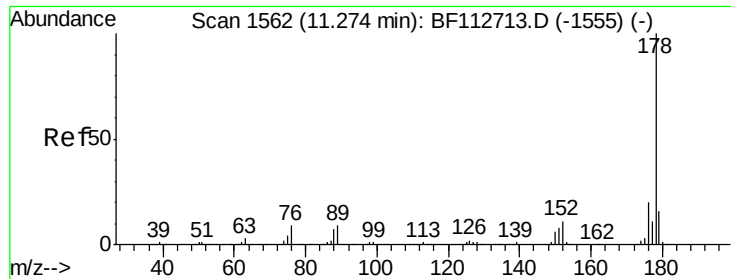
Sohil
 3/8/2019 9:26:15 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: BF112935.D
 Acq: 7 Mar 2019 21:34

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	9.3	9.0	13.4	
80	9.4	9.2	13.8	





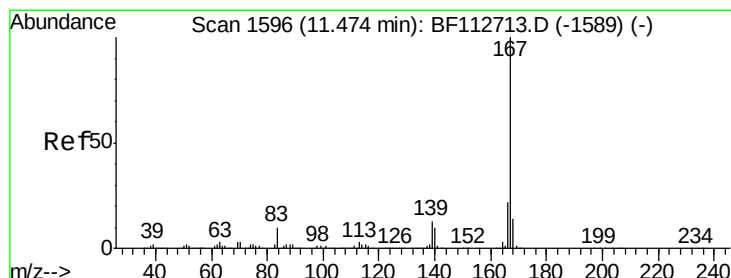
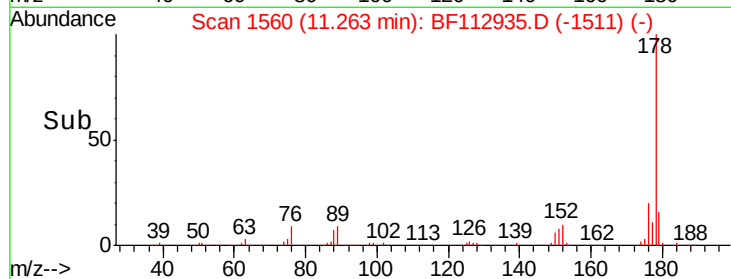
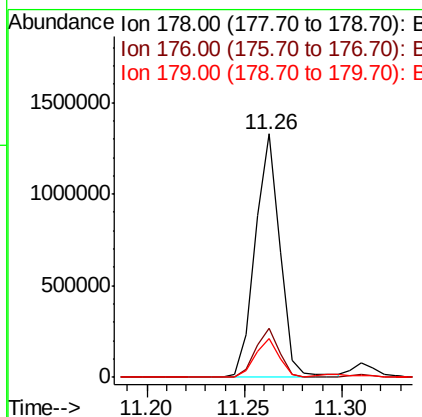
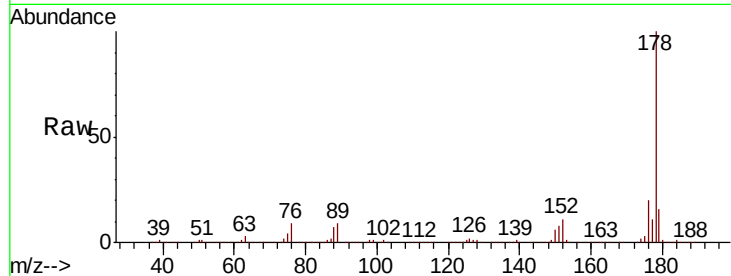
#71
Phenanthrene
Concen: 34.277 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampled :
Z-2-5DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.3	24.5
179	15.8	12.7	19.1

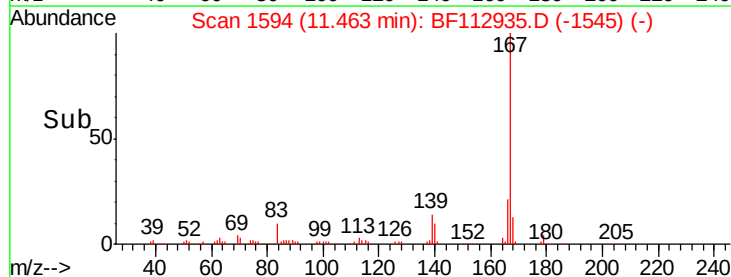
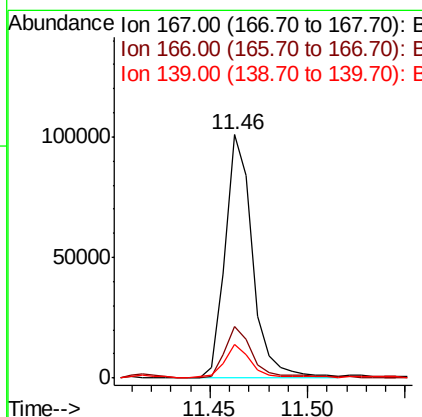
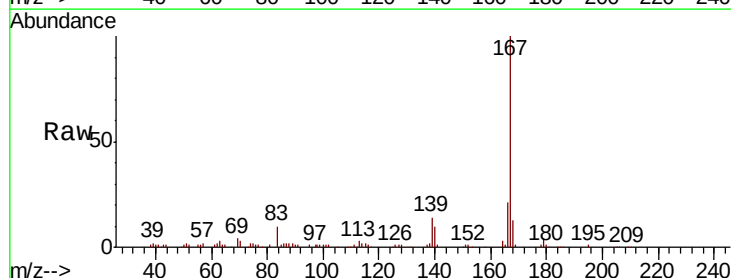
Manual Integrations
APPROVED

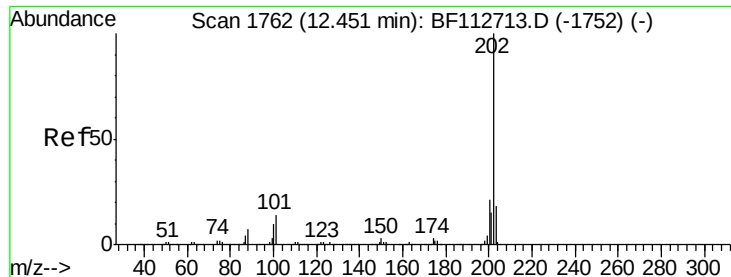
Sohil
3/8/2019 9:26:15 AM



#73
Carbazole
Concen: 2.832 ng
RT: 11.46 min Scan# 1594
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.6	10.8	16.2





#75

Fluoranthene

Concen: 36.535 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF112935.D

Acq: 7 Mar 2019 21:34

Instrument :

BNA_F

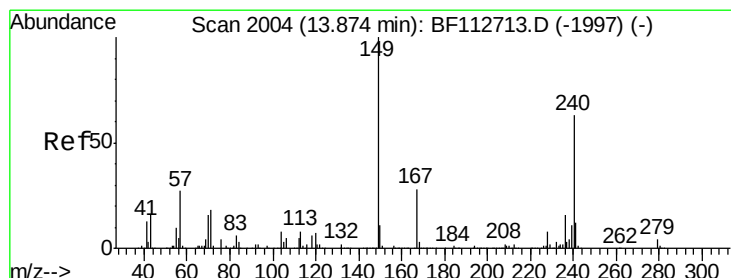
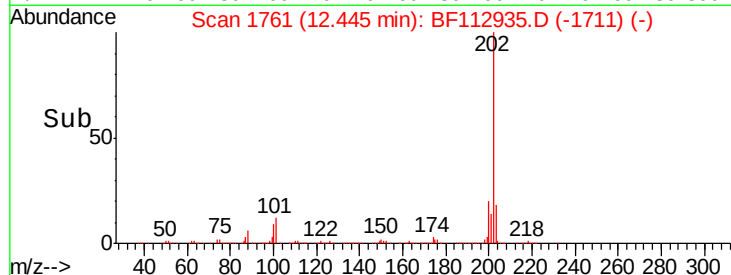
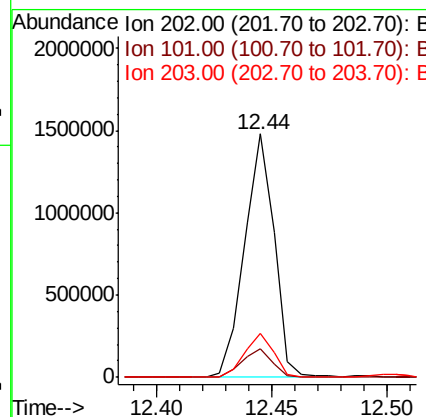
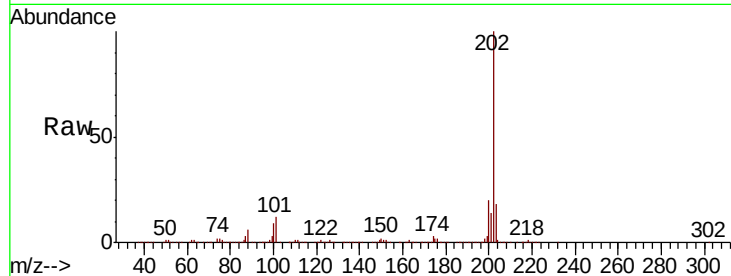
ClientSampled :

Z-2-5DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	12.0	0.0	33.8		
203	18.3	0.0	38.4		

Manual Integrations
APPROVED

Sohil
3/8/2019 9:26:15 AM



#76

Chrysene-d12

Concen: 20.000 ng

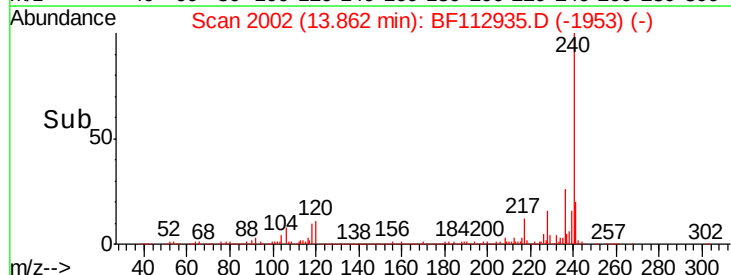
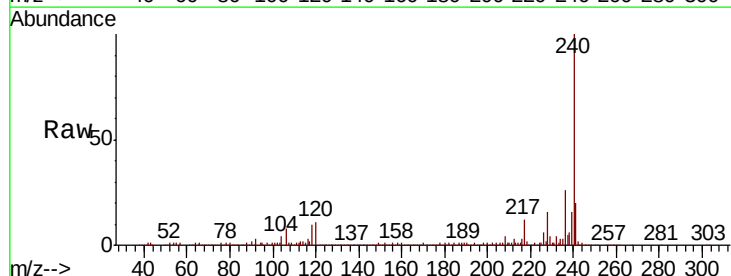
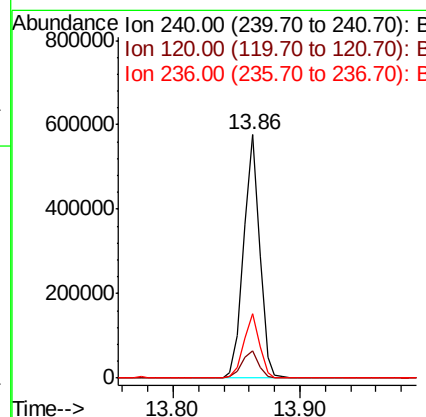
RT: 13.86 min Scan# 2002

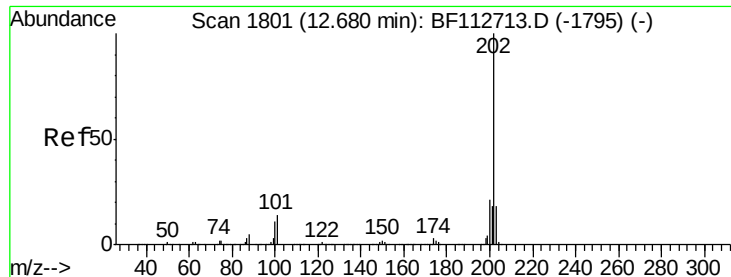
Delta R.T. -0.01 min

Lab File: BF112935.D

Acq: 7 Mar 2019 21:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	11.2	8.9	13.3		
236	26.2	20.7	31.1		





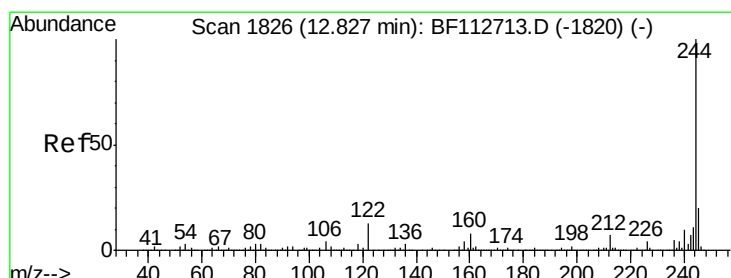
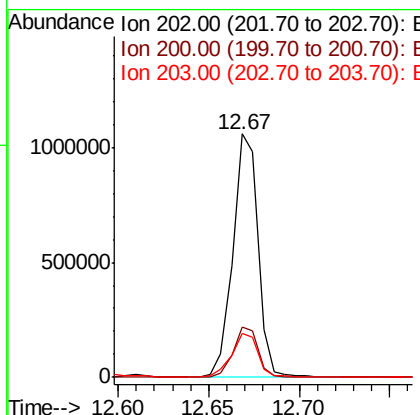
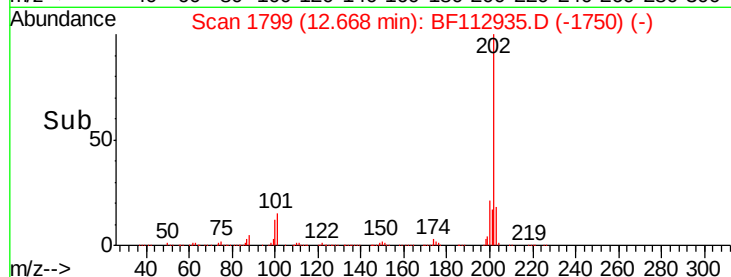
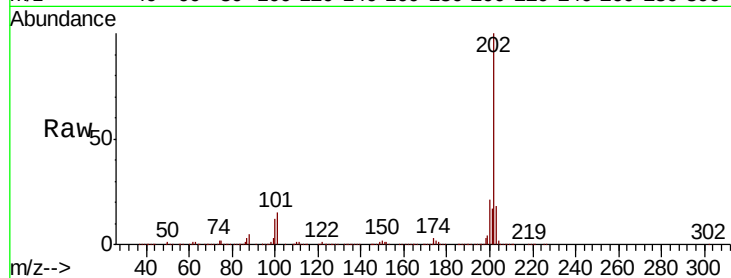
#78
Pvrene
Concen: 24.380 ng
RT: 12.67 min Scan# 1799
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampleId :
Z-2-5DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	18.0	14.4	21.6

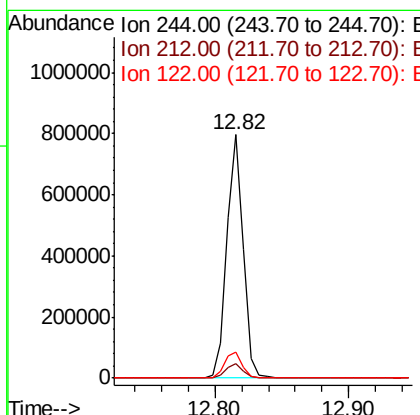
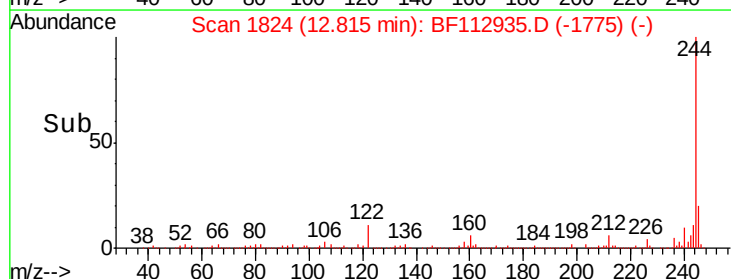
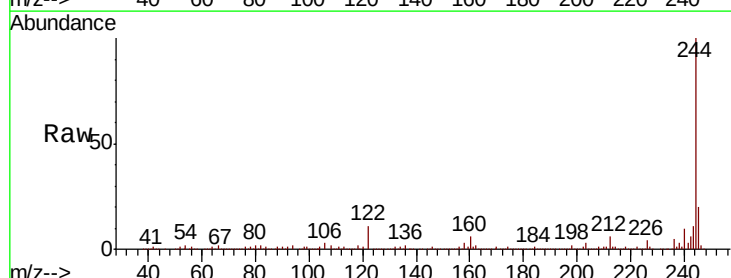
Manual Integrations
APPROVED

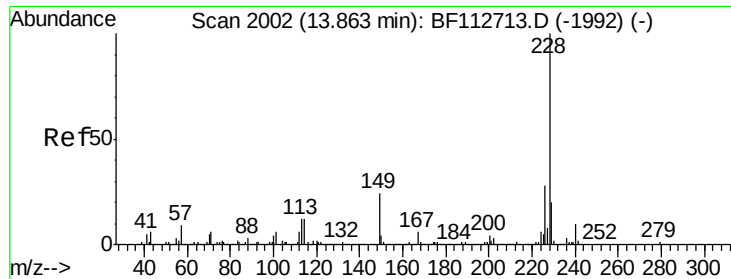
Sohil
3/8/2019 9:26:15 AM



#79
Terphenyl-d14
Concen: 26.919 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.0	5.6	8.4
122	10.8	10.5	15.7





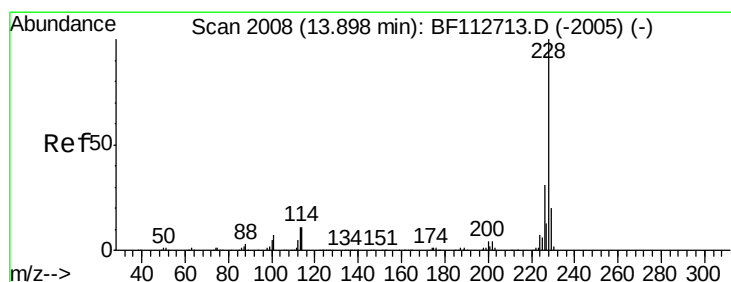
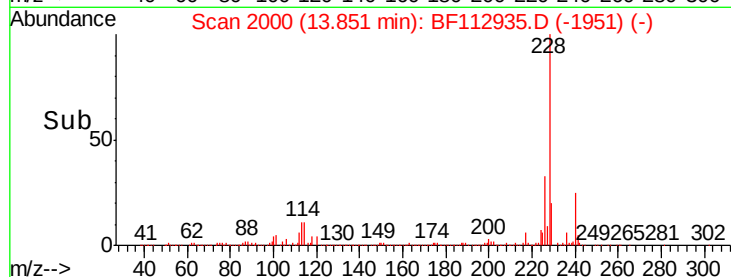
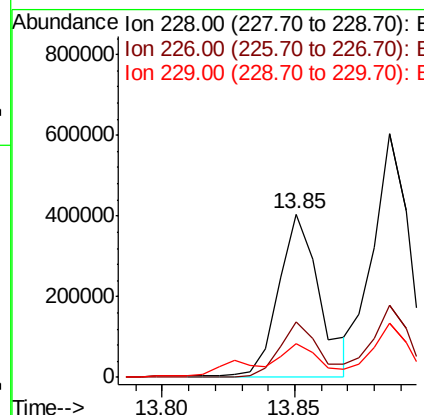
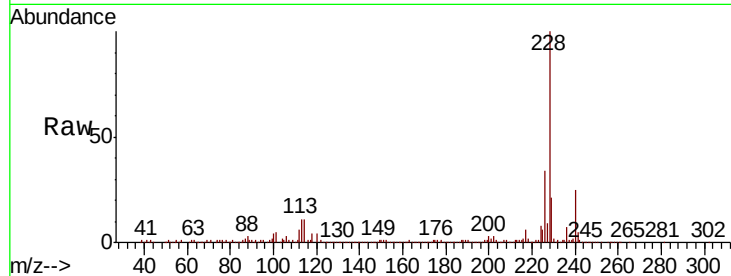
#81
Benzo(a)anthracene
Concen: 12.698 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampleId :
Z-2-5DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.7	22.2	33.4#
229	21.0	16.0	24.0

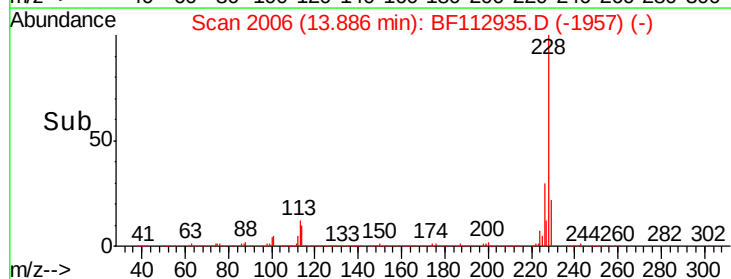
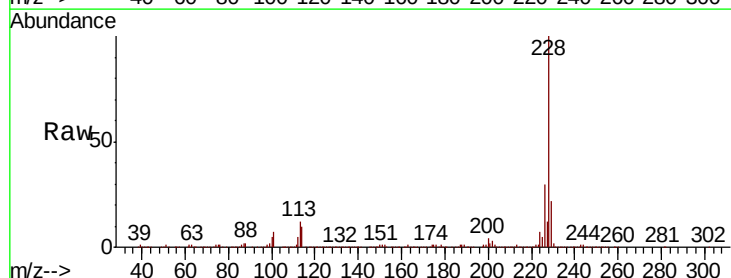
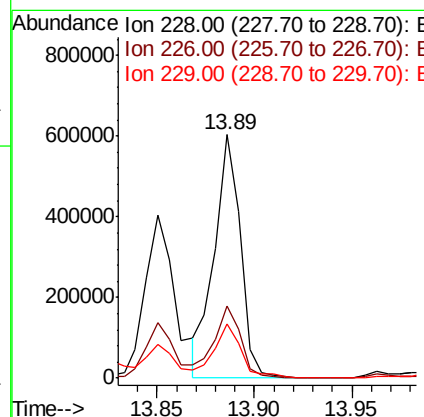
Manual Integrations
APPROVED

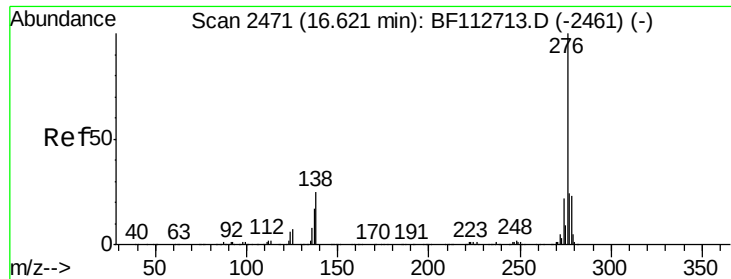
Sohil
3/8/2019 9:26:15 AM



#83
Chrysene
Concen: 16.576 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.9	37.3
229	22.2	16.3	24.5





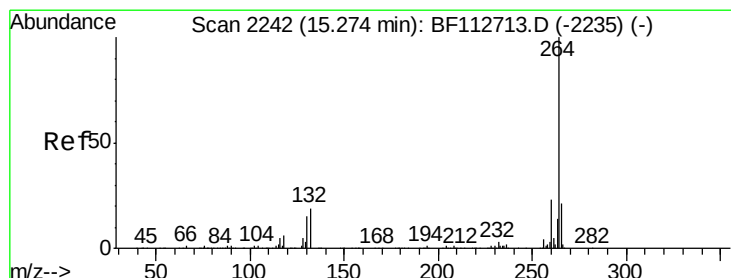
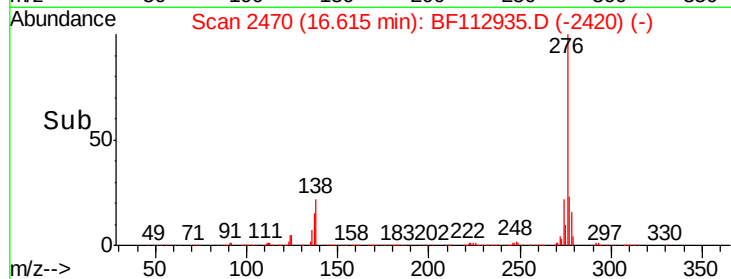
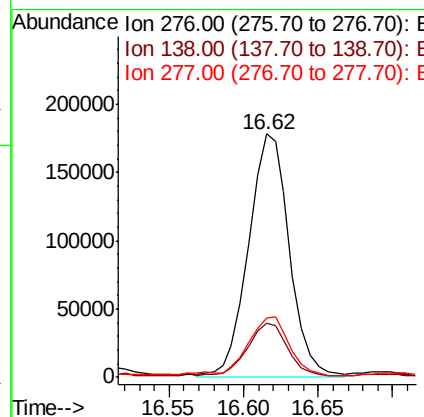
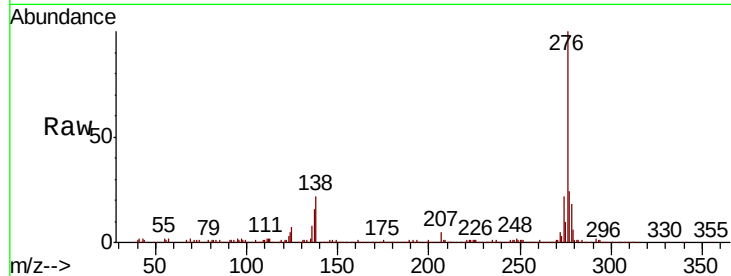
#86
Indeno(1,2,3-cd)pyrene
Concen: 11.882 ng
RT: 16.62 min Scan# 2470
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampleId :
Z-2-5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	4.6	23.2	34.8#
277	4.9	19.9	29.9#

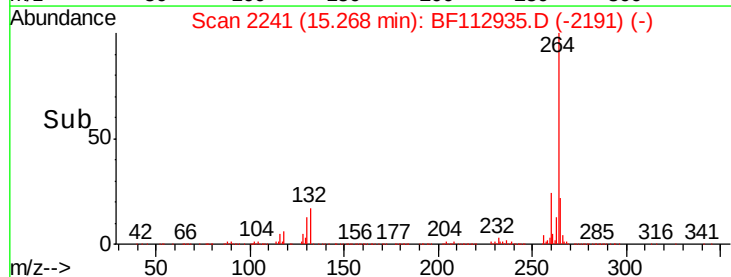
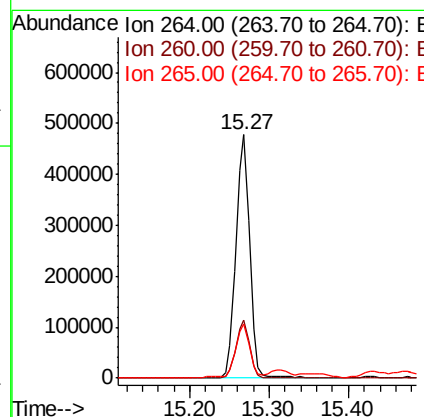
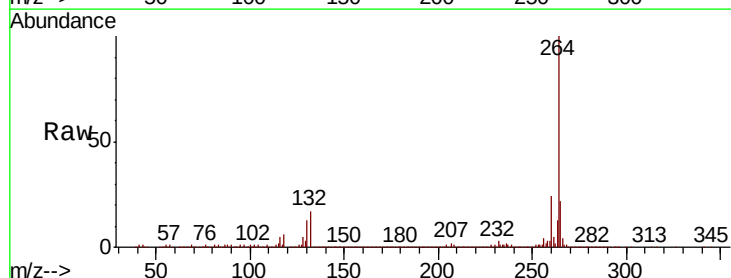
Manual Integrations
APPROVED

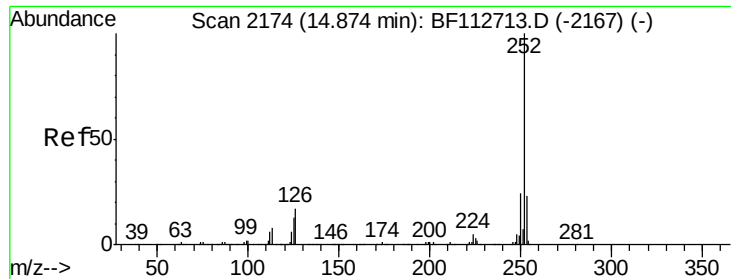
Sohil
3/8/2019 9:26:15 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2241
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.7	28.1
265	22.2	17.2	25.8





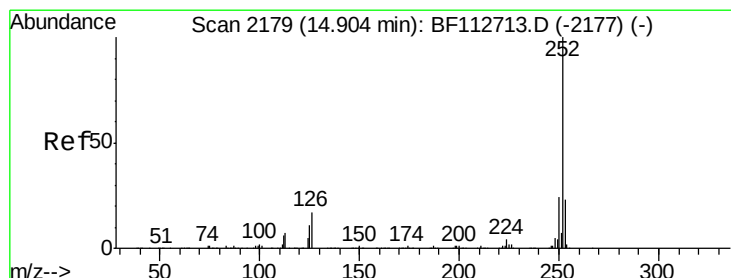
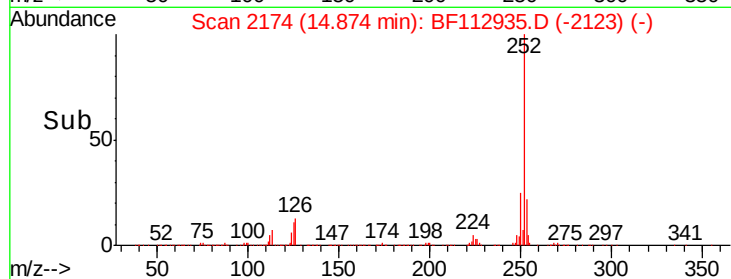
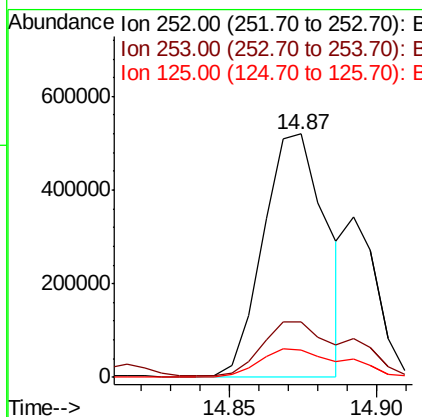
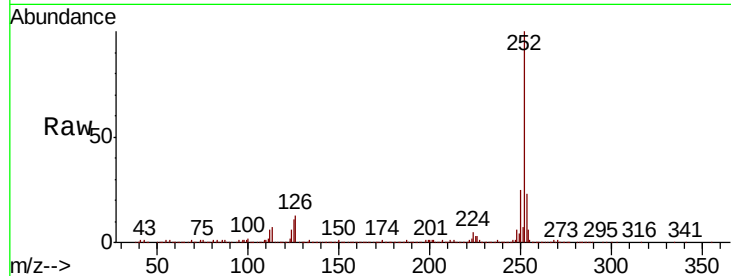
#88
Benzo(b)fluoranthene
Concen: 20.752 ng m
RT: 14.87 min Scan# 2174
Delta R.T. -0.00 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampleId :
Z-2-5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.0	27.0
125	11.4	10.2	15.2

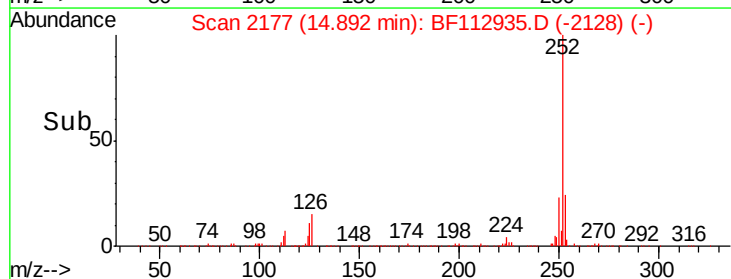
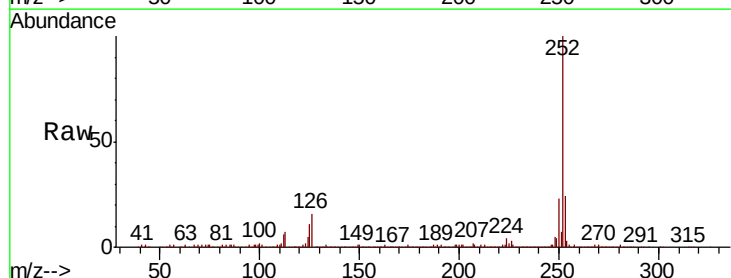
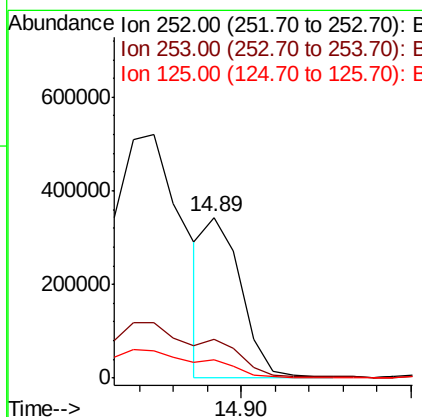
Manual Integrations
APPROVED

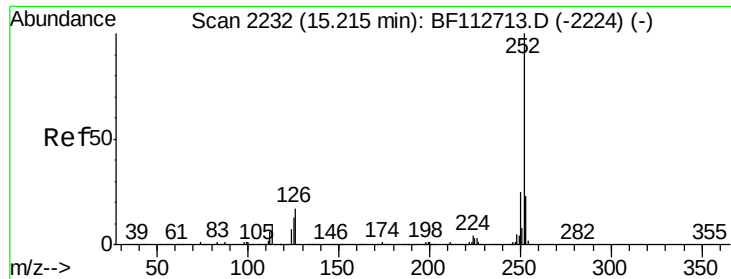
Sohil
3/8/2019 9:26:15 AM



#89
Benzo(k)fluoranthene
Concen: 7.581 ng m
RT: 14.89 min Scan# 2177
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.2
125	11.2	9.8	14.6





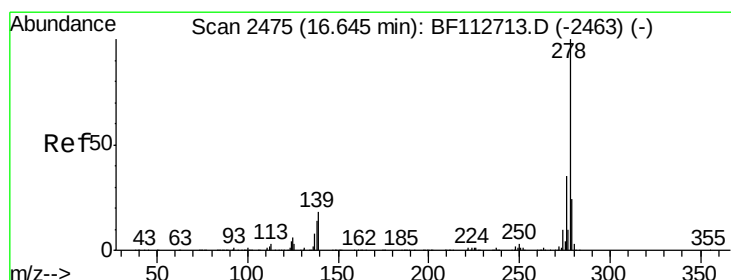
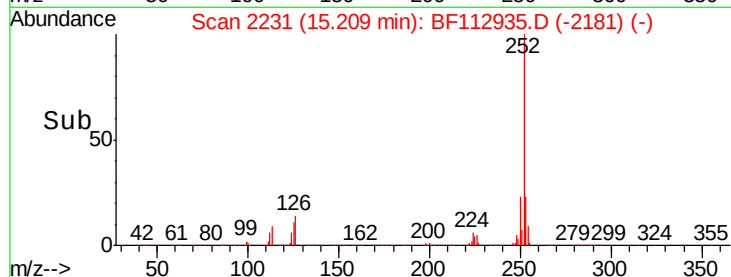
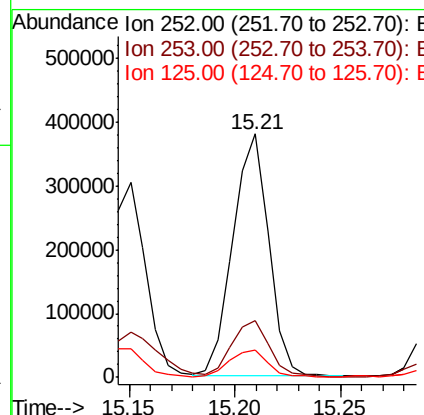
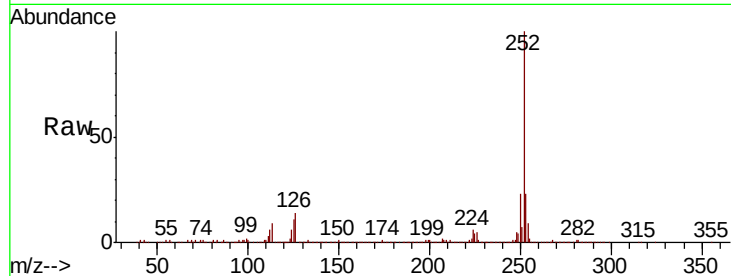
#90
Benzo(a)pyrene
Concen: 13.581 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Instrument :
BNA_F
ClientSampled :
Z-2-5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	11.3	10.7	16.1

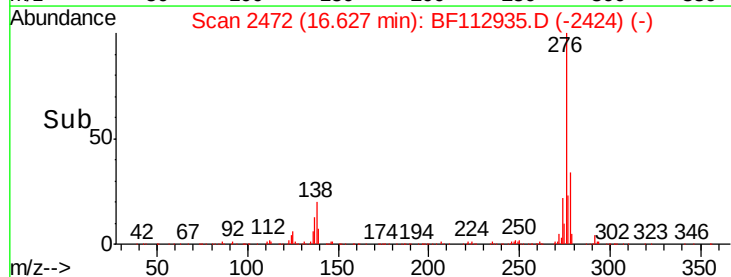
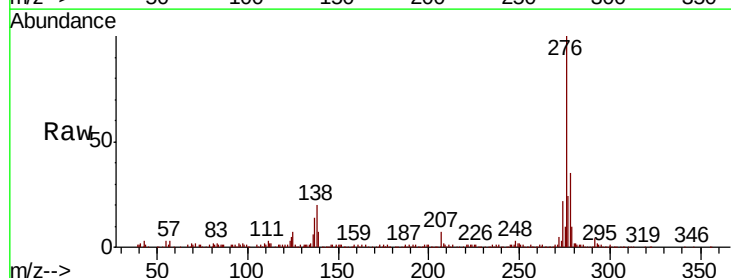
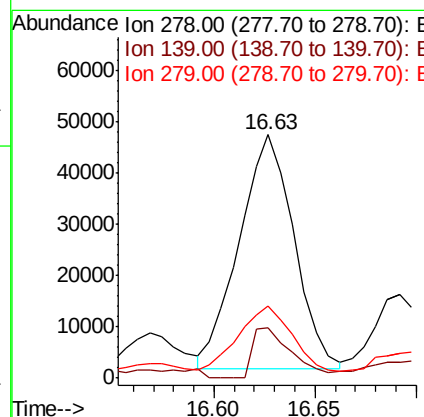
Manual Integrations
APPROVED

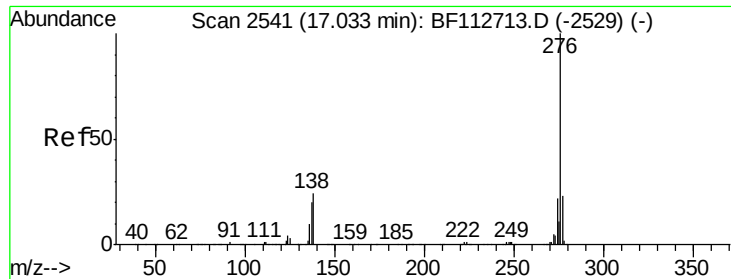
Sohil
3/8/2019 9:26:15 AM



#91
Dibenzo(a,h)anthracene
Concen: 3.055 ng m
RT: 16.63 min Scan# 2472
Delta R.T. -0.02 min
Lab File: BF112935.D
Acq: 7 Mar 2019 21:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.7	14.3	21.5
279	29.6	19.4	29.0





#92
 Benzo(a,h,i)perylene
 Concen: 9.980 ng
 RT: 17.02 min Scan# 2539
 Delta R.T. -0.01 min
 Lab File: BF112935.D
 Acq: 7 Mar 2019 21:34

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-5DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.6	27.8
138	23.2	19.4	29.0

Manual Integrations
 APPROVED

Sohil
 3/8/2019 9:26:15 AM

