

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
 Data File : BF111344.D
 Acq On : 13 Dec 2018 1:40
 Operator : JU/SJ
 Sample : J6214-19 10X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(0-2)

Manual Integrations
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 12/13/2018 6:06:56 PM

Quant Time: Dec 13 05:57:40 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 12 13:16:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	215785	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	791850	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	331237	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	588448	20.00	ng	0.00
76) Chrysene-d12	13.97	240	312230	20.00	ng	0.01
87) Perylene-d12	15.41	264	315107	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	102037	8.00	ng	0.00
7) Phenol-d6	6.42	99	129641	7.54	ng	-0.01
23) Nitrobenzene-d5	7.35	82	60820	4.33	ng	-0.02
42) 2,4,6-Tribromophenol	10.62	330	19135	6.55	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	129757	6.29	ng	0.00
79) Terphenyl-d14	12.90	244	108909	7.68	ng	0.00
Target Compounds						
31) Naphthalene	8.10	128	737965	20.003	ng	97
37) 2-Methylnaphthalene	8.79	142	185111	7.762	ng	97
38) 1-Methylnaphthalene	8.89	142	151718	6.591	ng	97
46) 1,1'-Biphenyl	9.25	154	80557	2.850	ng	93
52) Acenaphthene	9.87	154	1109511	55.629	ng	98
55) Dibenzofuran	10.04	168	746656	25.932	ng	93
58) Fluorene	10.38	166	1027533	49.887	ng	100
71) Phenanthrene	11.36	178	7451226	244.981	ng	96
72) Anthracene	11.40	178	2939397	94.910	ng	98
73) Carbazole	11.55	167	1382437	43.170	ng	96
75) Fluoranthene	12.56	202	9001703	303.164	ng	92
78) Pyrene	12.79	202	7298463	302.878	ng	94
81) Benzo(a)anthracene	13.96	228	3743619	214.292	ng	95
83) Chrysene	14.00	228	3100741	173.969	ng	97
86) Indeno(1,2,3-cd)pyrene	16.84	276	1599131m	114.714	ng	
88) Benzo(b)fluoranthene	15.00	252	4162685m	232.317	ng	
89) Benzo(k)fluoranthene	15.03	252	924739m	51.704	ng	
90) Benzo(a)pyrene	15.36	252	2634154	157.890	ng	97
91) Dibenzo(a,h)anthracene	16.84	278	397133m	28.611	ng	
92) Benzo(a,h,i)perylene	17.27	276	1378463	99.330	ng	96

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

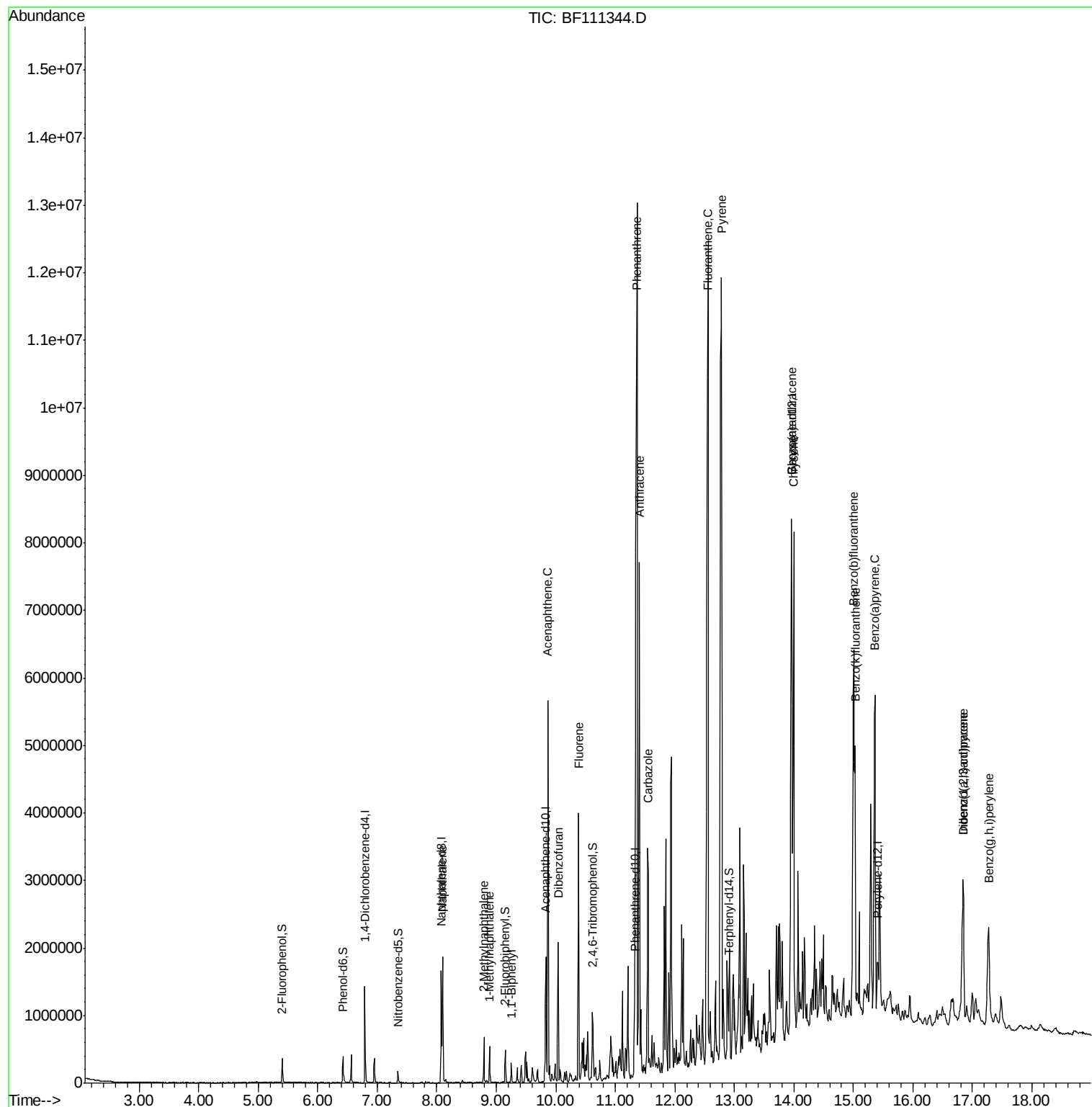
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

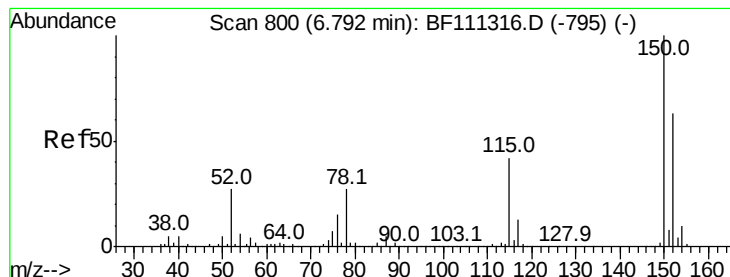
Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)

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Quant Time: Dec 13 05:57:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 12 13:16:52 2018
Response via : Initial Calibration





#1

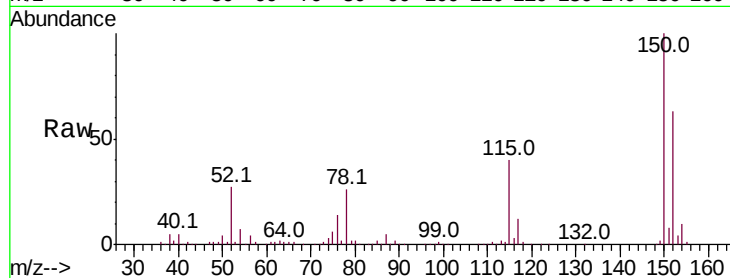
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampled :
SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	126.6	189.8
115	64.0	50.7	76.1

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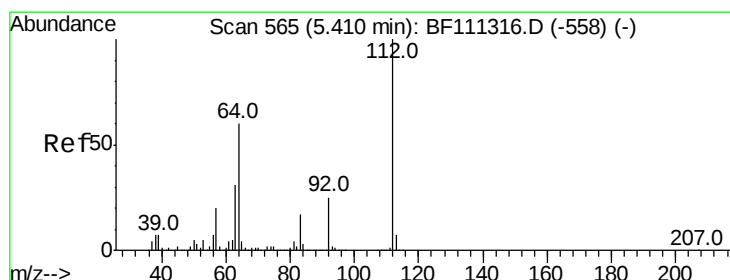
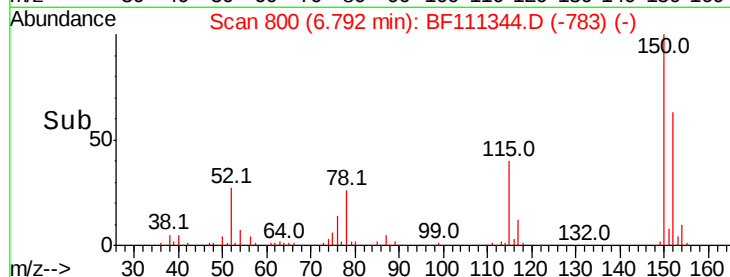
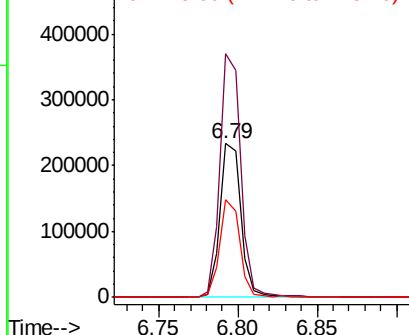


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

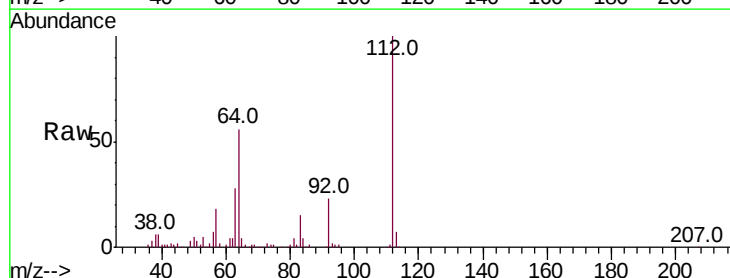
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 7.996 ng
RT: 5.40 min Scan# 564
Delta R.T. -0.01 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	51.8	77.6
63	28.3	26.8	40.2

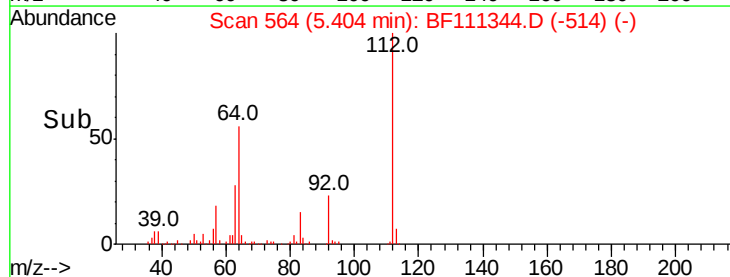
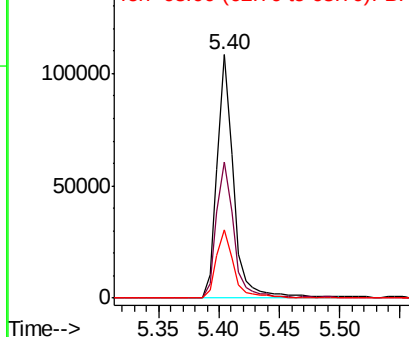


Abundance

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: 7.535 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

Instrument :

BNA_F

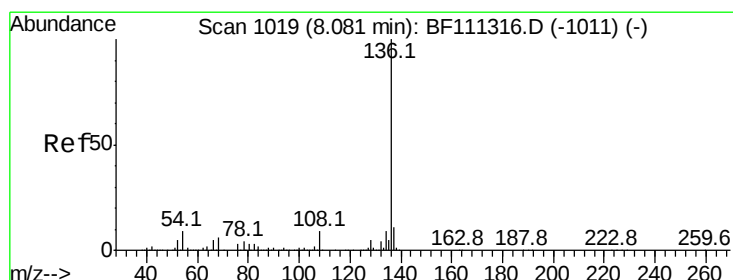
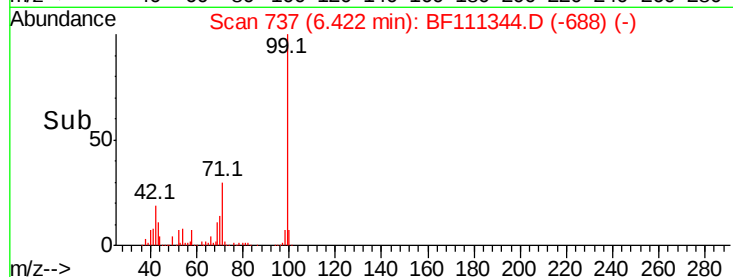
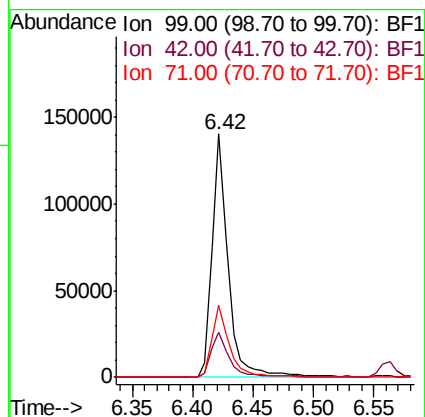
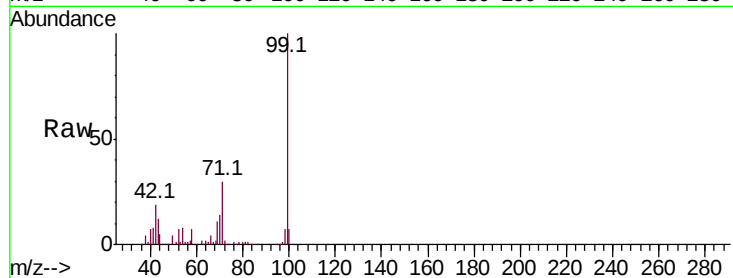
ClientSampleId :

SB-9(0-2)

Tot Ion:	99	Resp:	129641
Ion Ratio	Lower	Upper	
99	100		
42	18.6	17.4	26.0
71	29.9	26.1	39.1

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#21

Naphthalene-d8

Concen: 20.000 ng

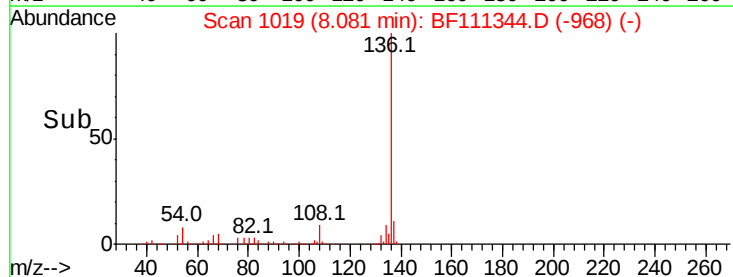
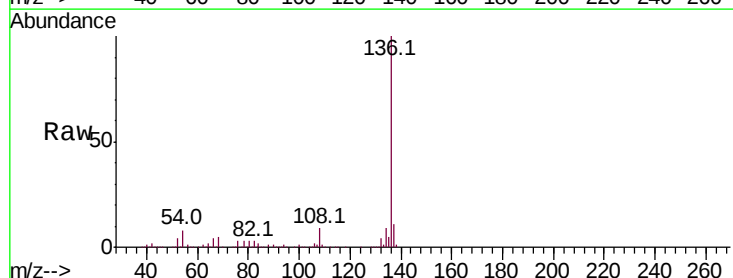
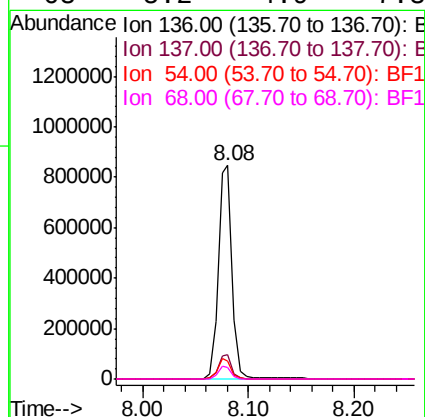
RT: 8.08 min Scan# 1019

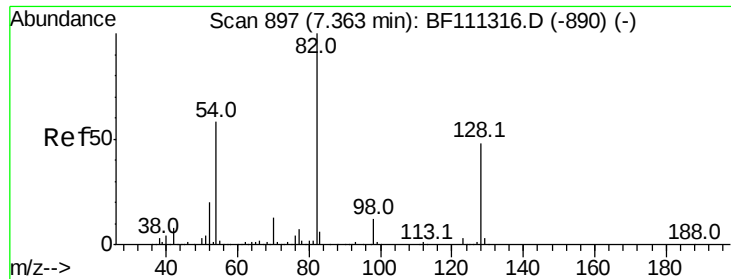
Delta R.T. 0.00 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

Tgt Ion:	136	Resp:	791850
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	8.3	7.7	11.5
68	5.2	4.9	7.3





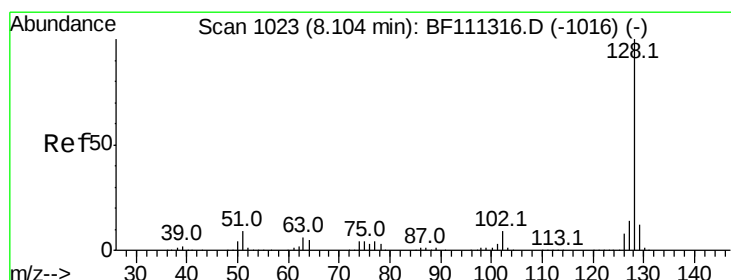
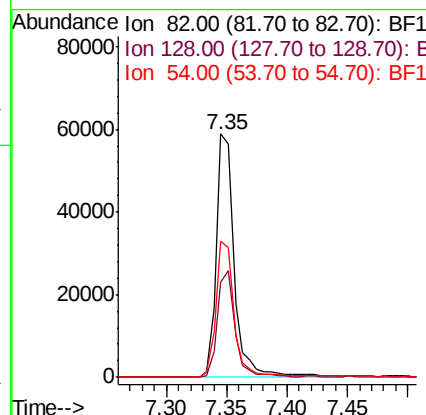
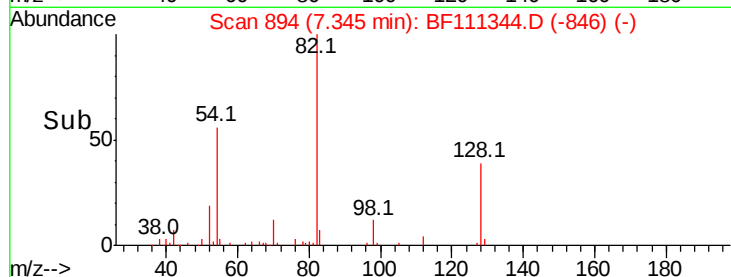
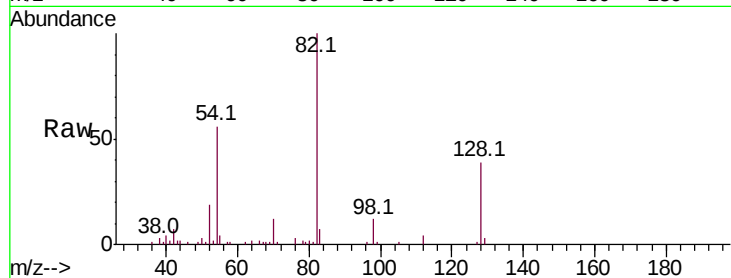
#23
Nitrobenzene-d5
Concen: 4.329 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.02 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.9	37.4	56.2
54	55.9	47.6	71.4

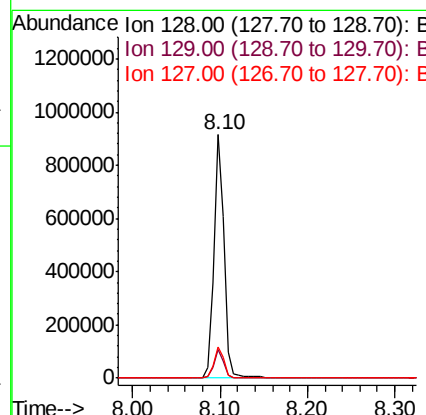
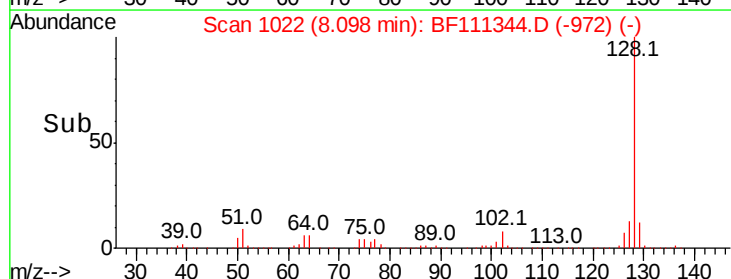
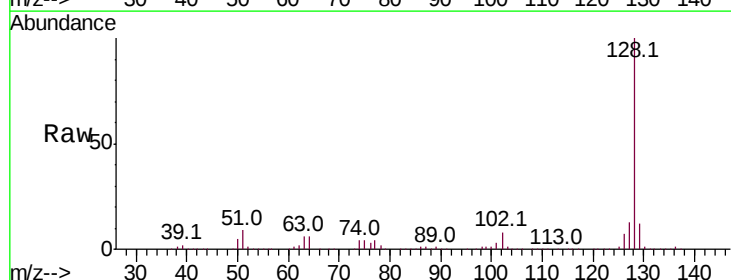
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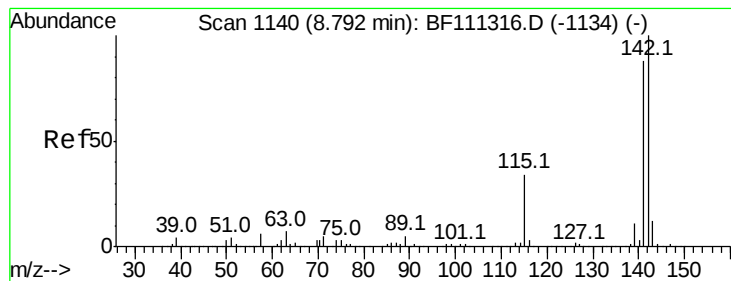
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#31
Naphthalene
Concen: 20.003 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.8
127	12.9	12.0	18.0





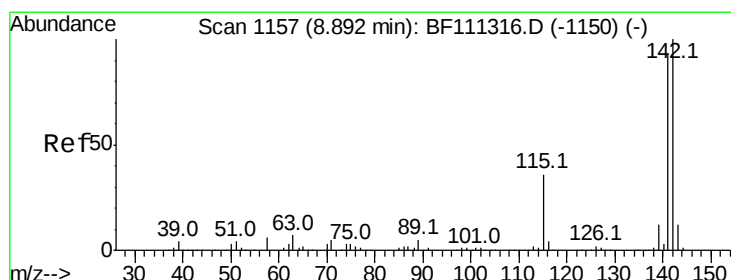
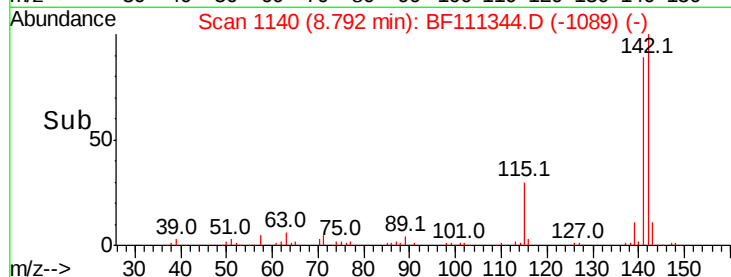
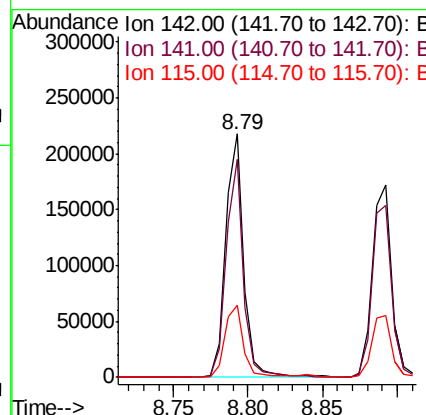
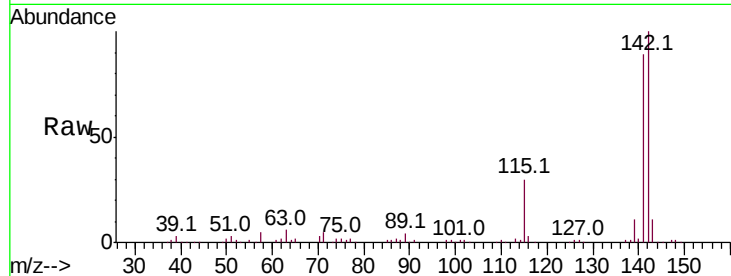
#37
2-Methylnaphthalene
Concen: 7.762 ng
RT: 8.79 min Scan# 1140
Delta R.T. 0.00 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampled :
SB-9(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	185111		
141	89.3	70.6	105.8	
115	29.6	27.0	40.6	

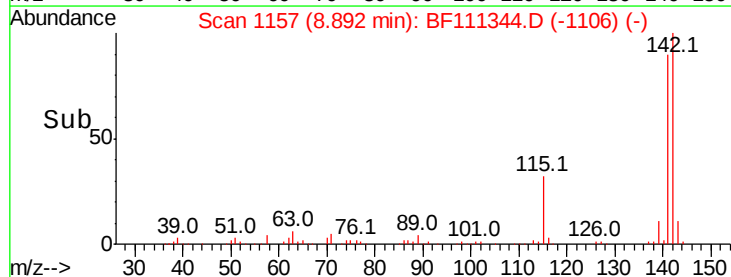
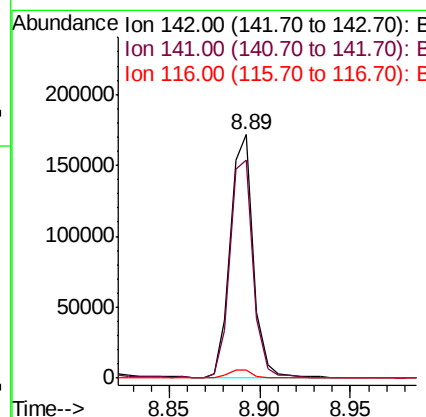
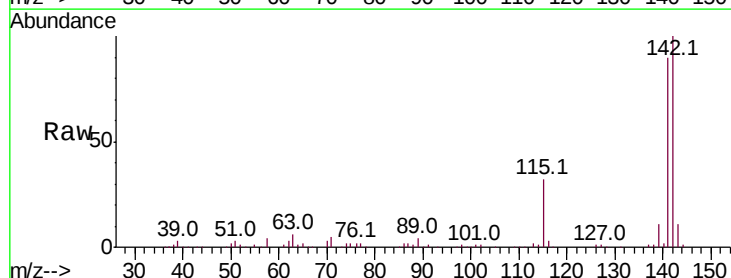
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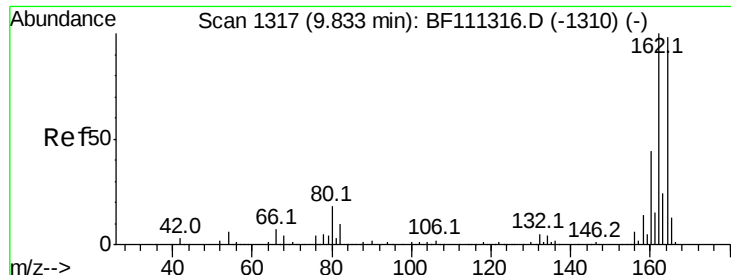
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#38
1-Methylnaphthalene
Concen: 6.591 ng
RT: 8.89 min Scan# 1157
Delta R.T. 0.00 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	151718		
141	89.6	74.2	111.4	
116	3.2	2.9	4.3	





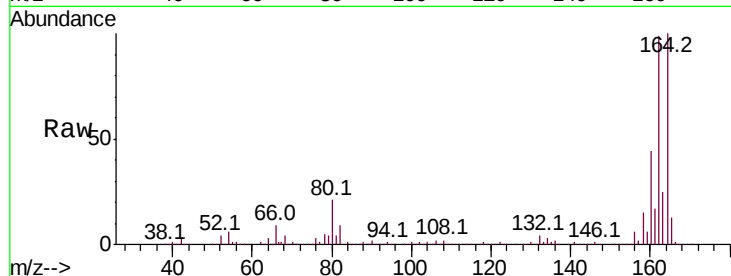
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.00 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)

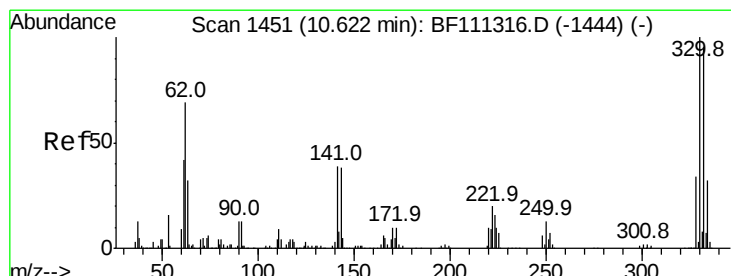
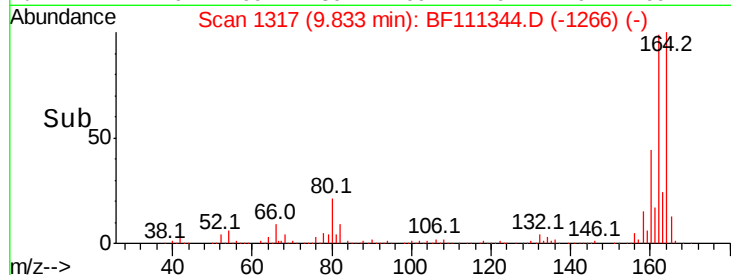
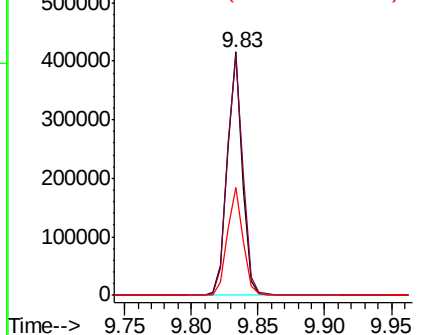
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	98.7	81.4	122.0	
160	44.2	35.7	53.5	

Manual Integrations
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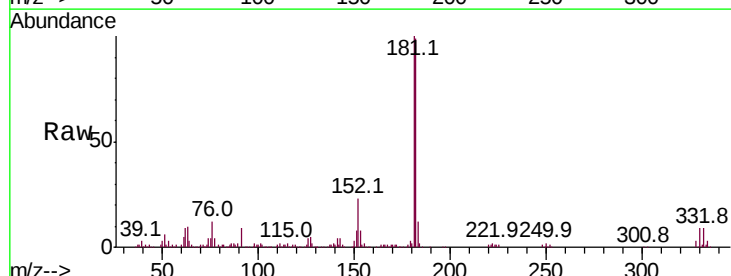


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

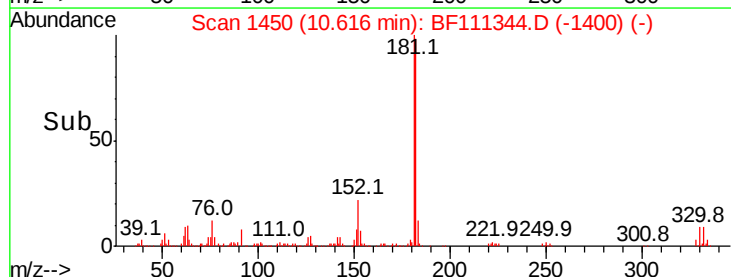
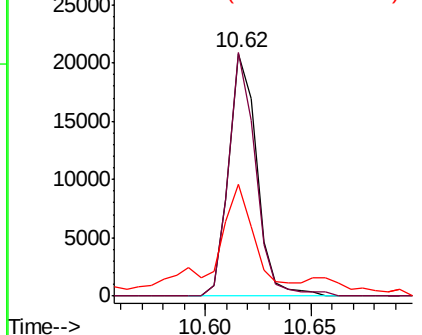


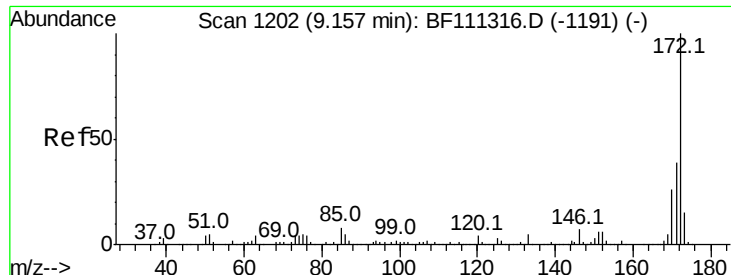
#42
2,4,6-Tribromophenol
Concen: 6.553 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	76.0	114.0	
141	56.5	31.0	46.6#	



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





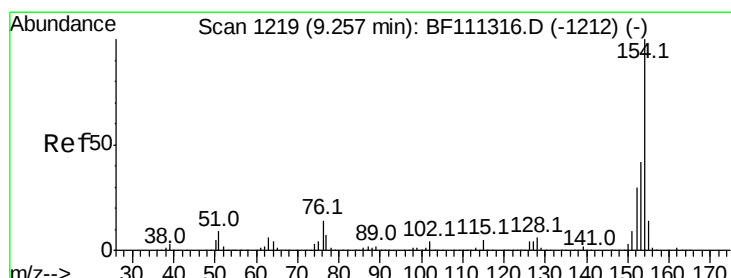
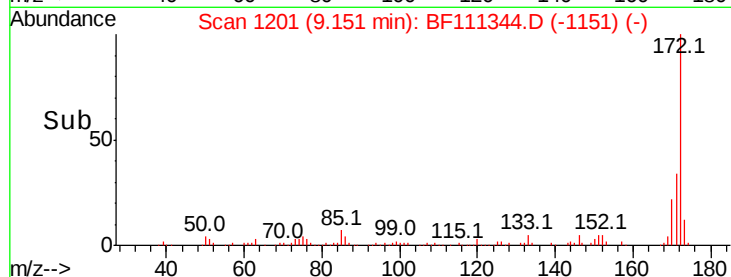
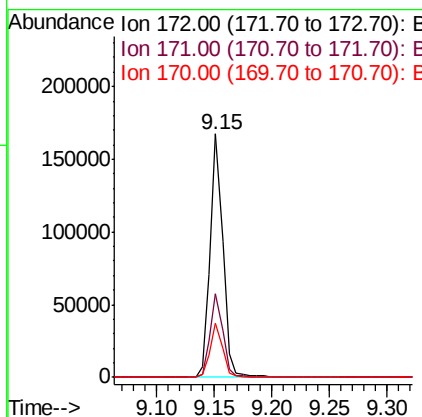
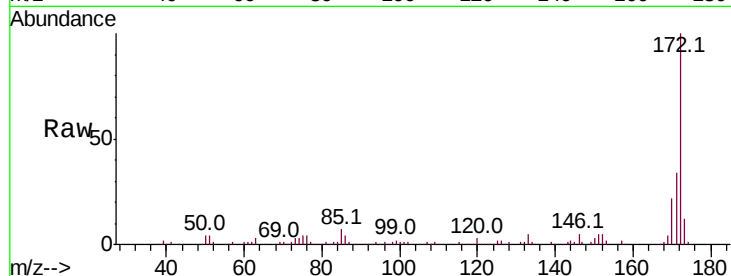
#45
2-Fluorobiphenyl
Concen: 6.289 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)

Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	34.4	33.0	49.4
170	22.1	22.3	33.5#

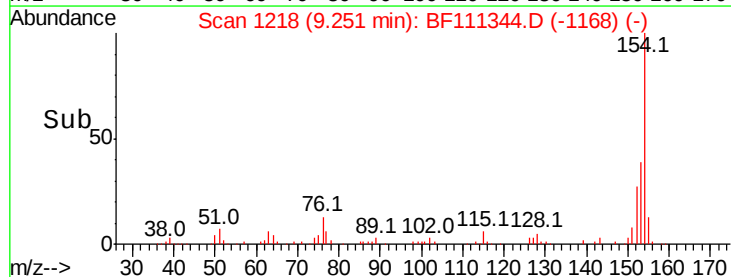
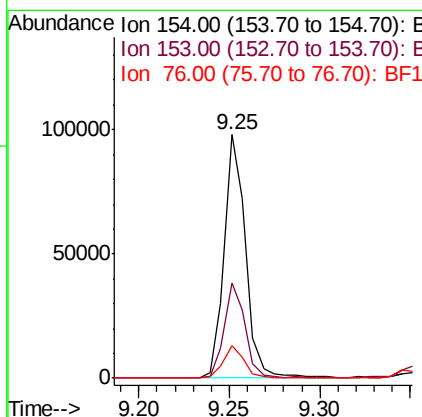
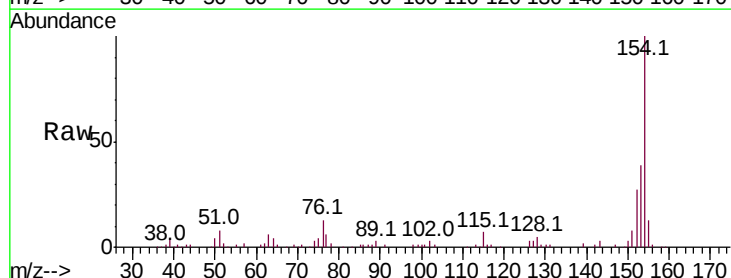
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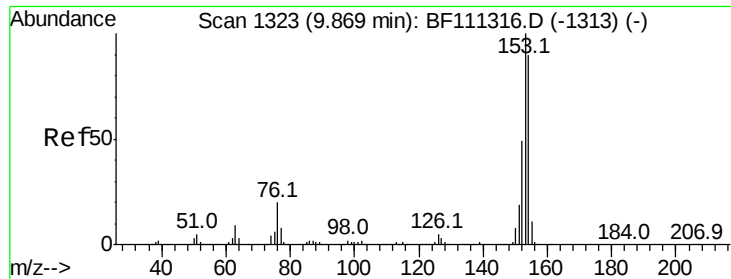
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#46
1,1'-Biphenyl
Concen: 2.850 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	38.9	23.7	63.7
76	13.5	0.0	35.0





#52

Acenaphthene

Concen: 55.629 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.00 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

Instrument :

BNA_F

ClientSampleId :

SB-9(0-2)

Tot Ion:154 Resp: 1109511

Ion Ratio Lower Upper

154 100

153 113.1 87.8 131.8

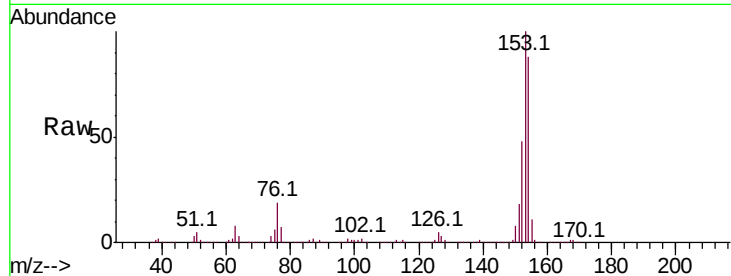
152 54.6 43.4 65.2

Manual Integrations

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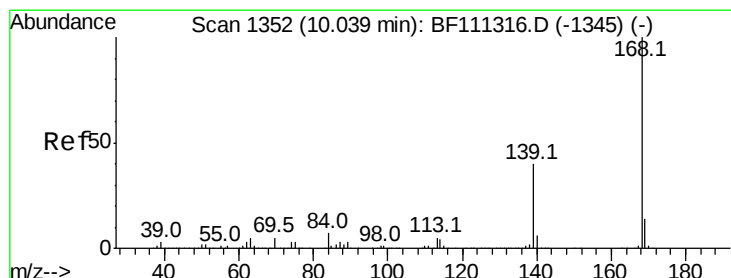
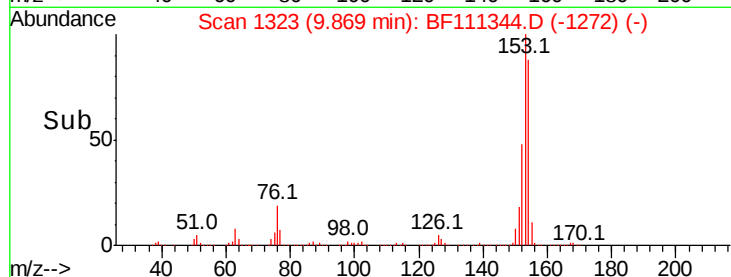
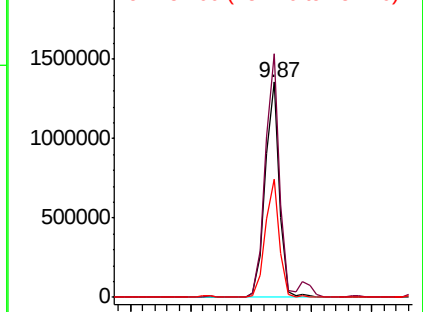


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 25.932 ng

RT: 10.04 min Scan# 1352

Delta R.T. 0.00 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

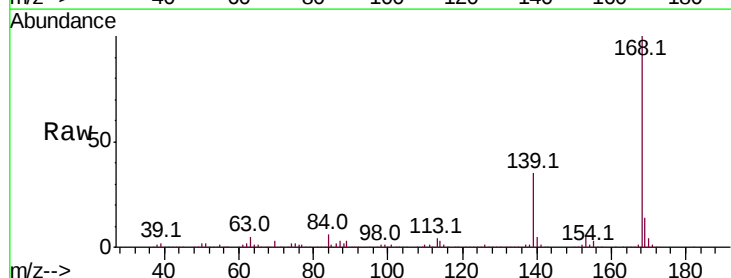
Tgt Ion:168 Resp: 746656

Ion Ratio Lower Upper

168 100

139 35.5 32.6 49.0

169 14.3 11.8 17.6

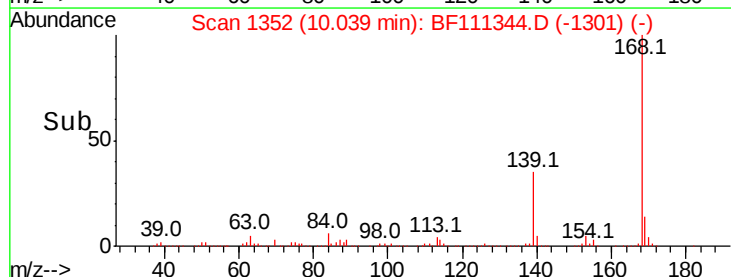
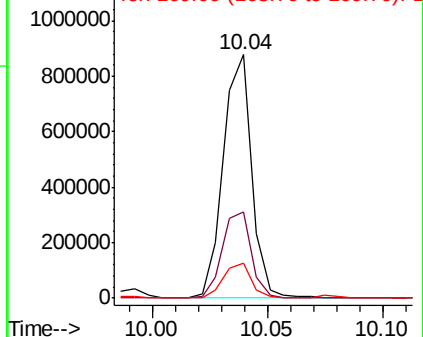


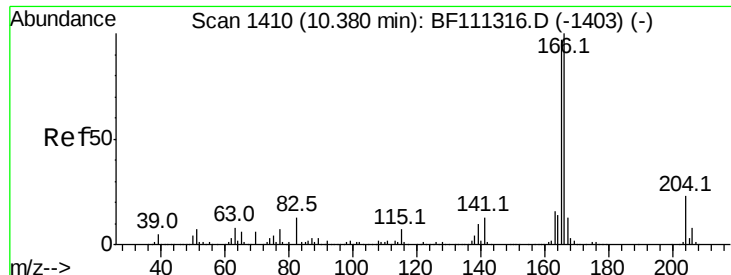
Abundance

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





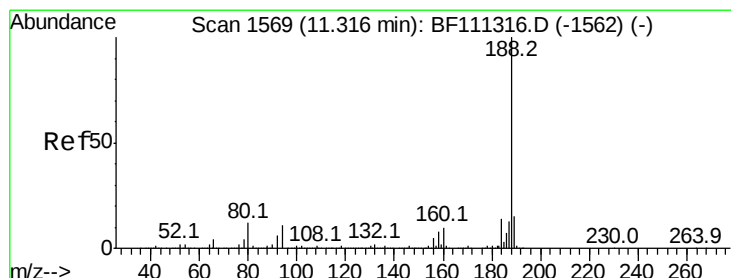
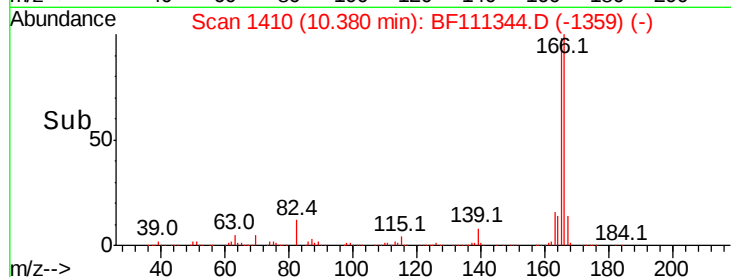
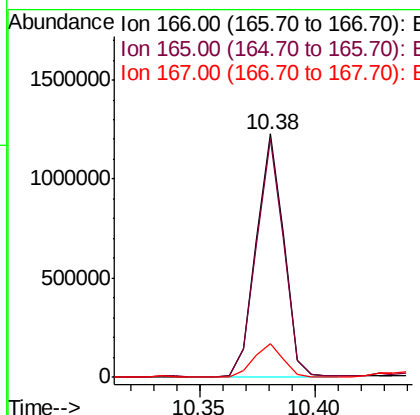
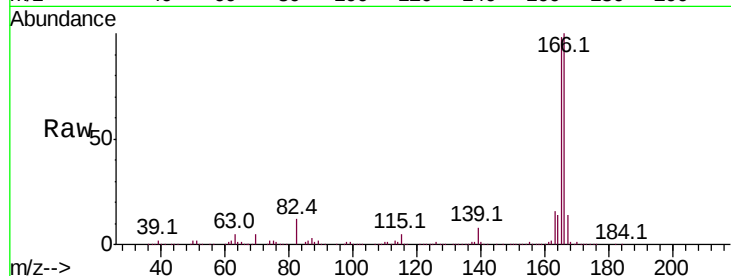
#58
 Fluorene
 Concen: 49.887 ng
 RT: 10.38 min Scan# 1410
 Delta R.T. 0.00 min
 Lab File: BF111344.D
 Acq: 13 Dec 2018 1:40

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(0-2)

Tot Ion:166 Resp: 1027533
 Ion Ratio Lower Upper
 166 100
 165 97.7 78.4 117.6
 167 14.1 11.2 16.8

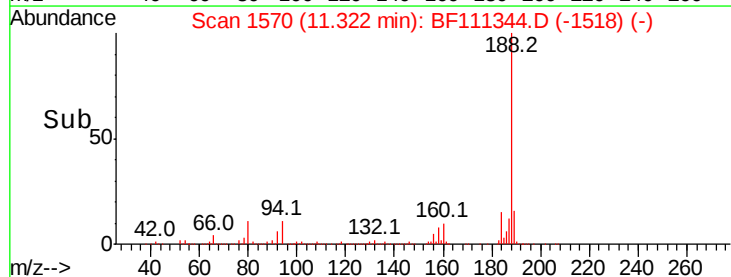
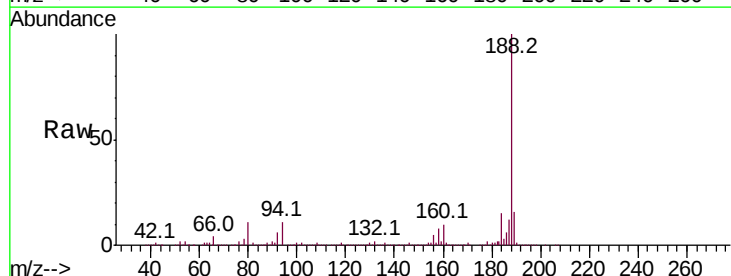
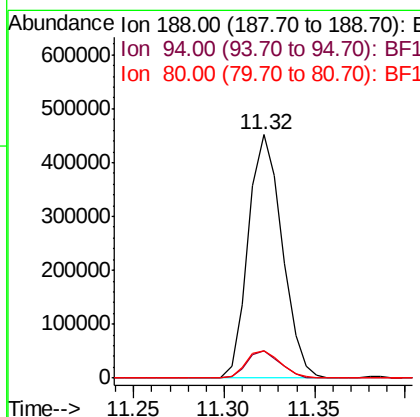
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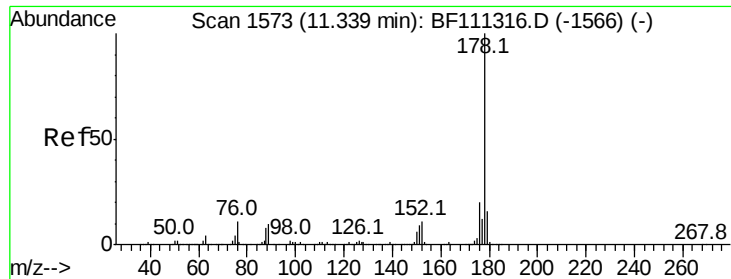
Sohil
 12/13/2018 6:06:56 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: BF111344.D
 Acq: 13 Dec 2018 1:40

Tgt Ion:188 Resp: 588448
 Ion Ratio Lower Upper
 188 100
 94 11.0 9.6 14.4
 80 11.4 9.8 14.6





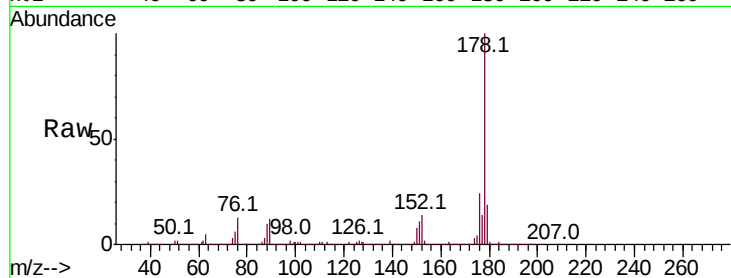
#71
Phenanthrene
Concen: 244.981 ng
RT: 11.36 min Scan# 1577
Delta R.T. 0.02 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)

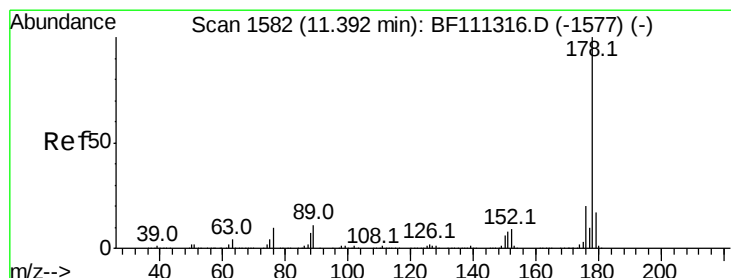
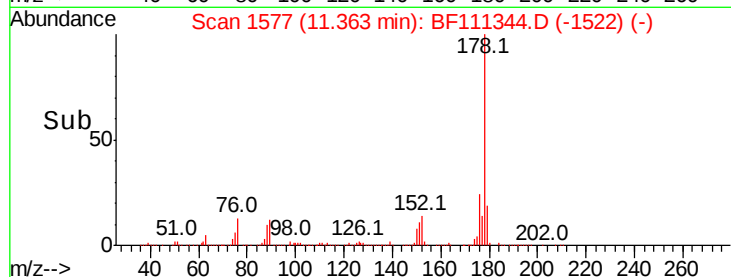
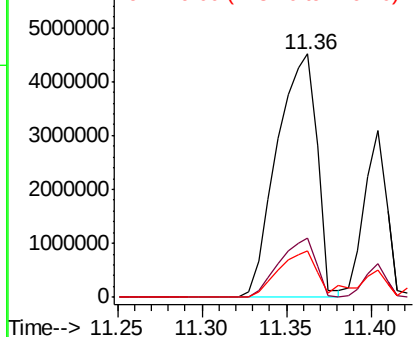
Tot Ion:178 Resp: 7451226
Ion Ratio Lower Upper
178 100
176 24.4 18.1 27.1
179 19.2 14.0 21.0

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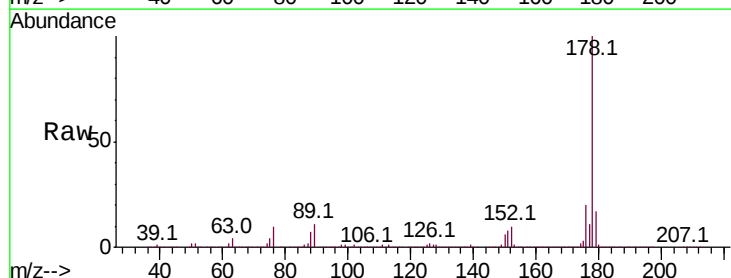


Abundance Ion 178.00 (177.70 to 178.70): E
6000000 Ion 176.00 (175.70 to 176.70): E
5000000 Ion 179.00 (178.70 to 179.70): E

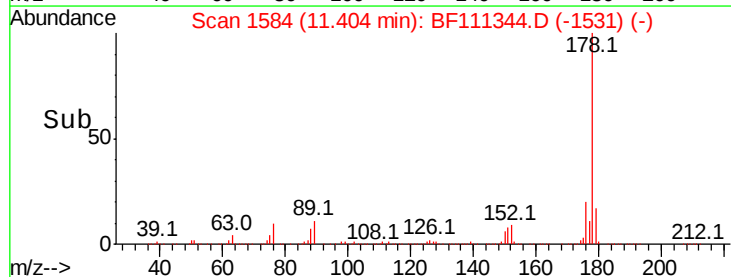
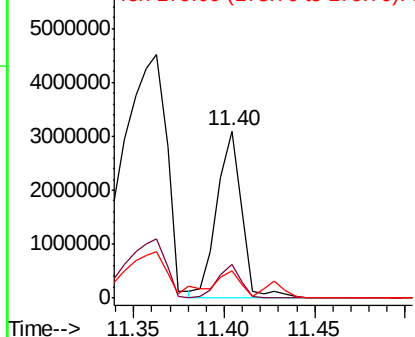


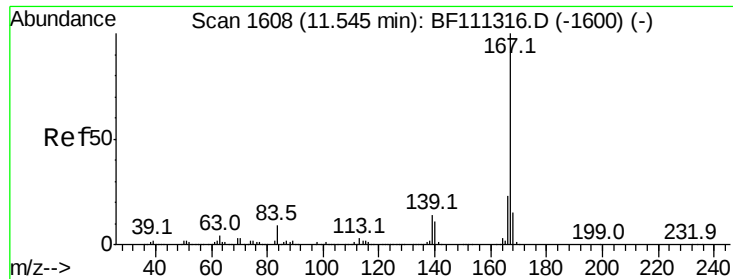
#72
Anthracene
Concen: 94.910 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.01 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion:178 Resp: 2939397
Ion Ratio Lower Upper
178 100
176 20.5 17.2 25.8
179 16.7 13.8 20.8



Abundance Ion 178.00 (177.70 to 178.70): E
6000000 Ion 176.00 (175.70 to 176.70): E
5000000 Ion 179.00 (178.70 to 179.70): E





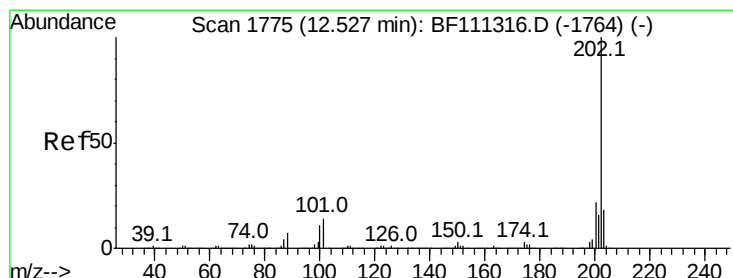
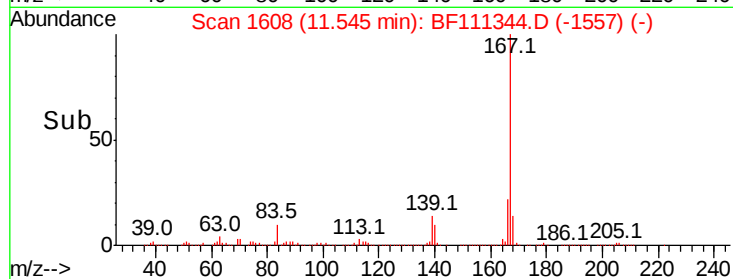
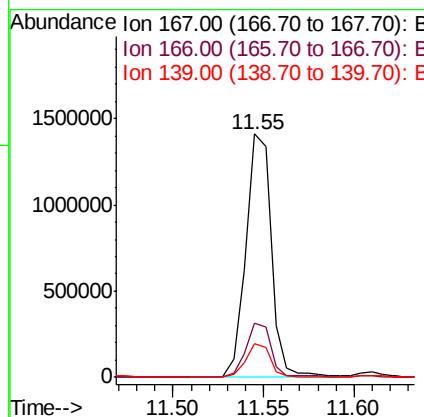
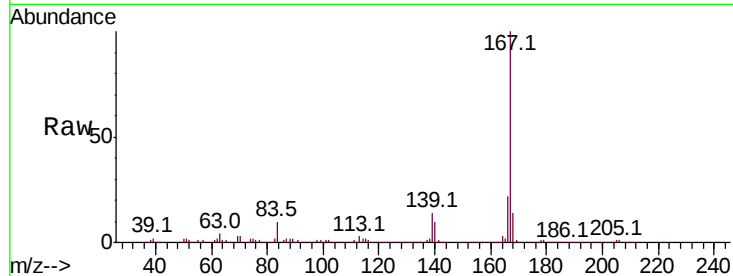
#73
 Carbazole
 Concen: 43.170 ng
 RT: 11.55 min Scan# 1608
 Delta R.T. 0.00 min
 Lab File: BF111344.D
 Acq: 13 Dec 2018 1:40

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.1	19.3	28.9
139	13.7	11.9	17.9

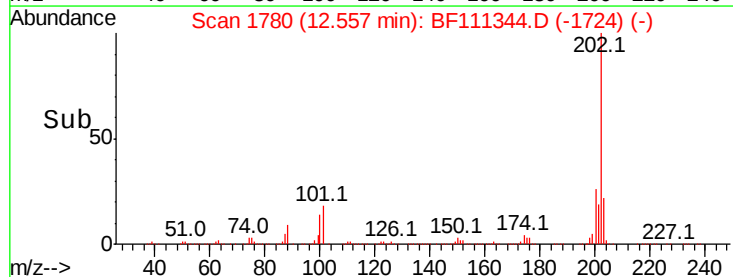
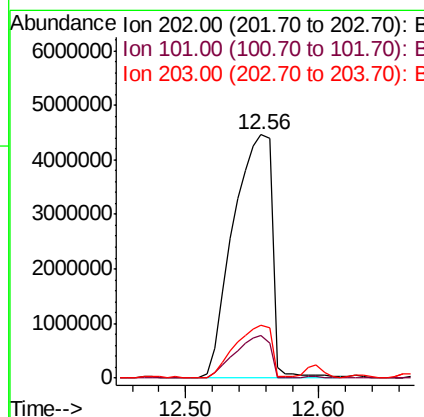
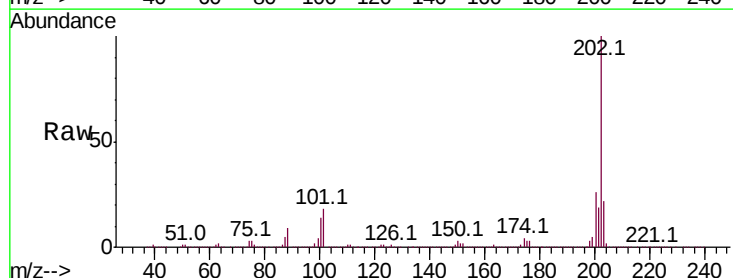
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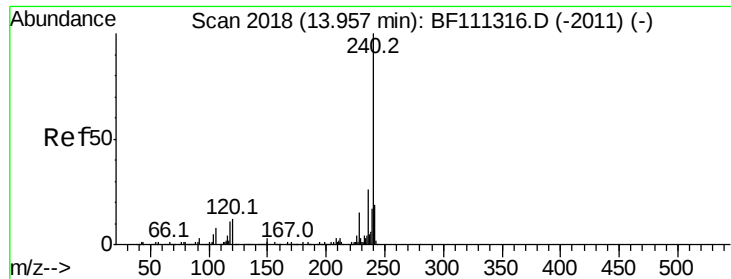
Sohil
 12/13/2018 6:06:56 PM



#75
 Fluoranthene
 Concen: 303.164 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. 0.03 min
 Lab File: BF111344.D
 Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.7	0.0	33.8
203	21.7	0.0	38.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

Instrument :

BNA_F

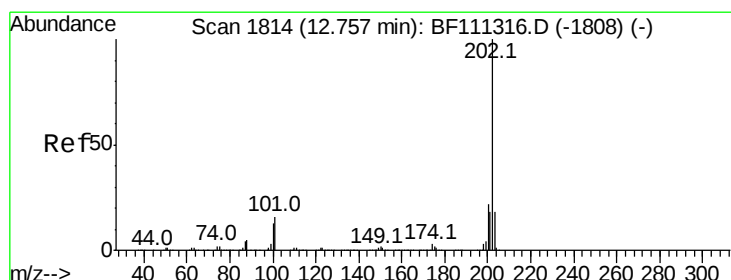
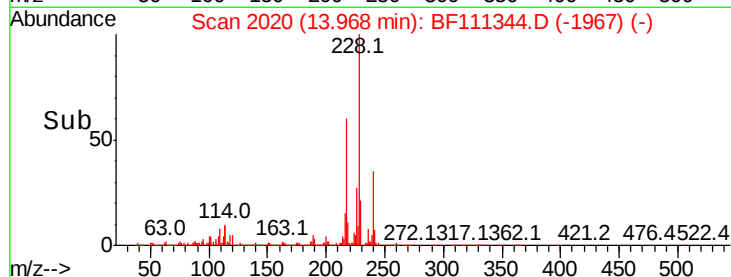
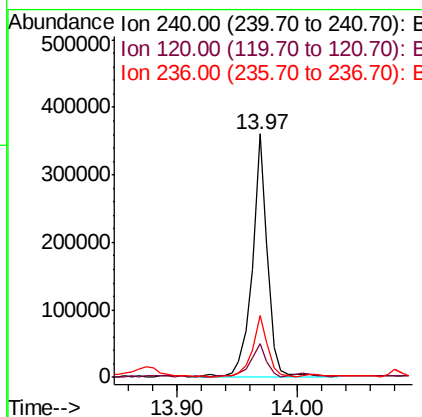
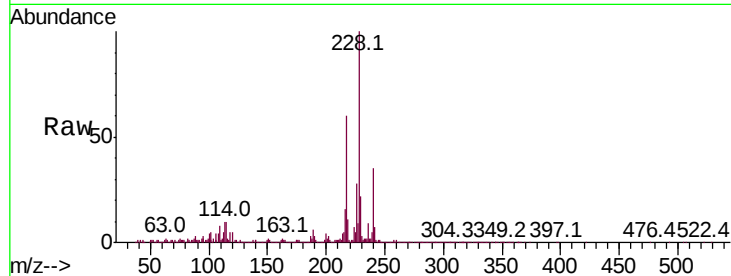
ClientSampled :

SB-9(0-2)

Tot Ion:	240	Resp:	312230
Ion Ratio	Lower	Upper	
240	100		
120	13.7	12.2	18.2
236	25.5	20.2	30.2

Manual Integrations
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#78

Pyrene

Concen: 302.878 ng

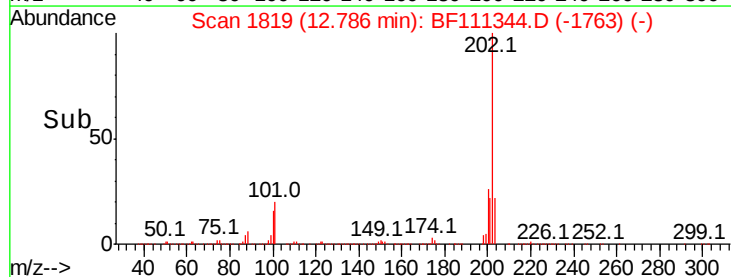
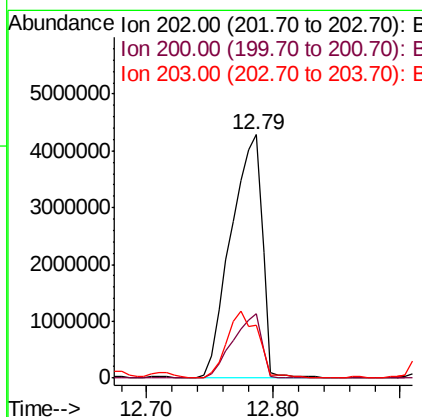
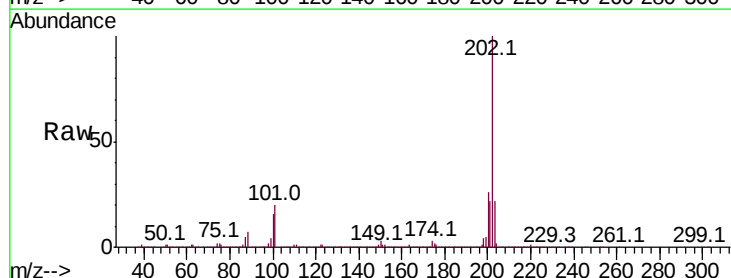
RT: 12.79 min Scan# 1819

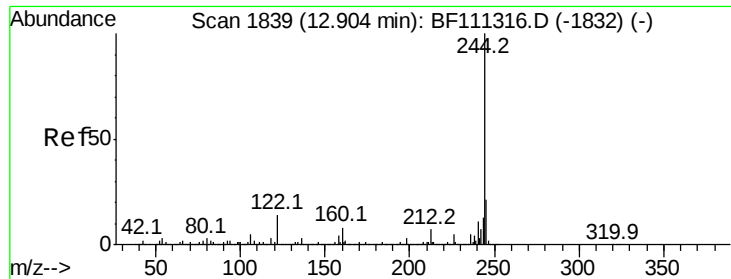
Delta R.T. 0.03 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

Tgt Ion:	202	Resp:	7298463
Ion Ratio	Lower	Upper	
202	100		
200	26.5	19.0	28.4
203	21.8	15.2	22.8





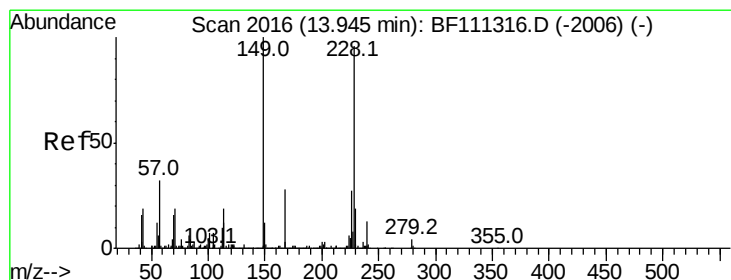
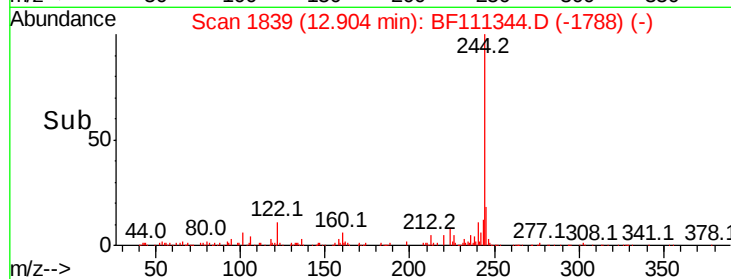
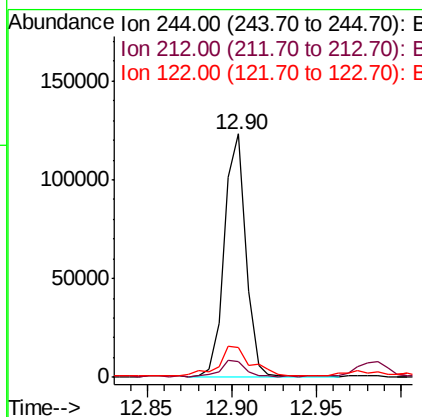
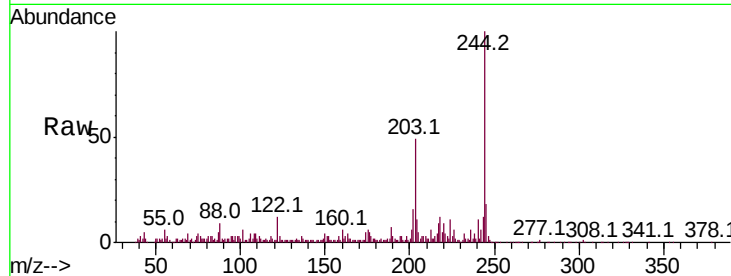
#79
 Terphenyl-d14
 Concen: 7.677 ng
 RT: 12.90 min Scan# 1839
 Delta R.T. 0.00 min
 Lab File: BF111344.D
 Acq: 13 Dec 2018 1:40

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.7	8.5
122	12.1	13.1	19.7

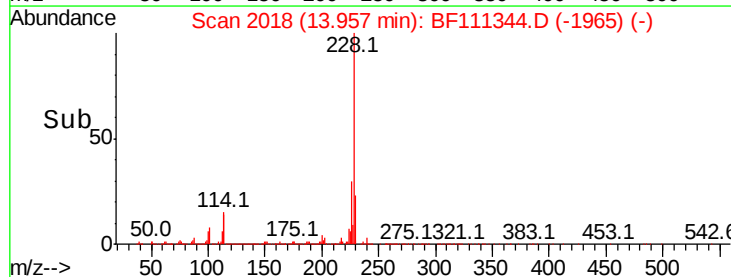
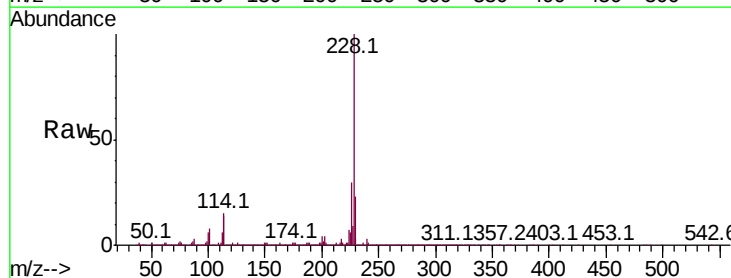
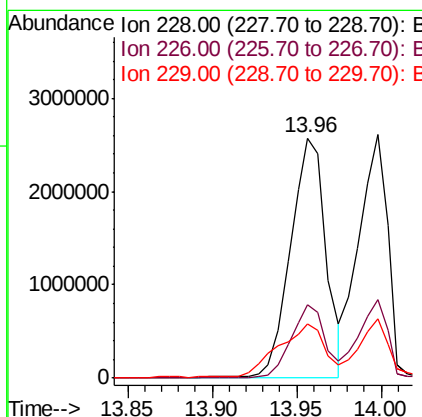
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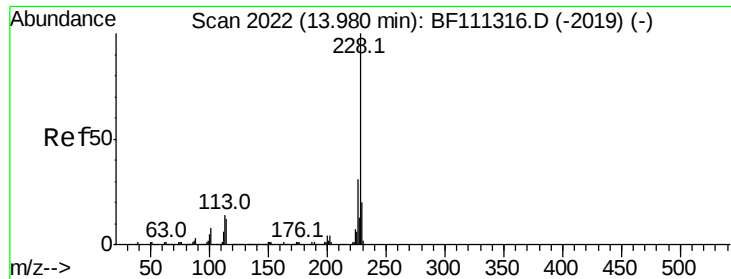
Sohil
 12/13/2018 6:06:56 PM



#81
 Benzo(a)anthracene
 Concen: 214.292 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. 0.01 min
 Lab File: BF111344.D
 Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	22.6	34.0
229	22.8	16.3	24.5





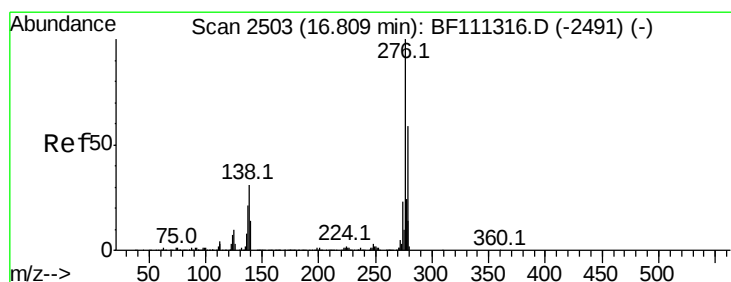
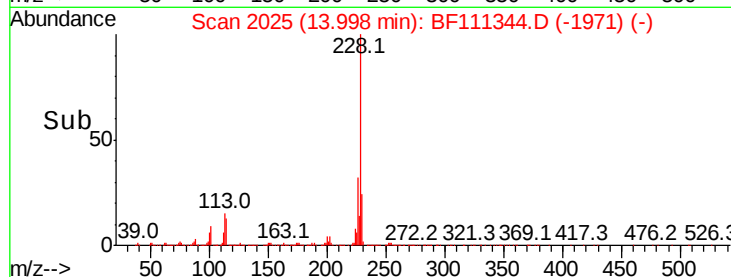
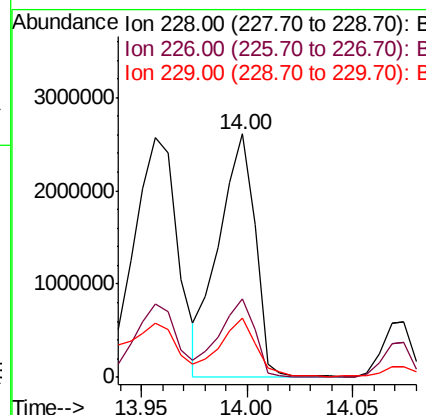
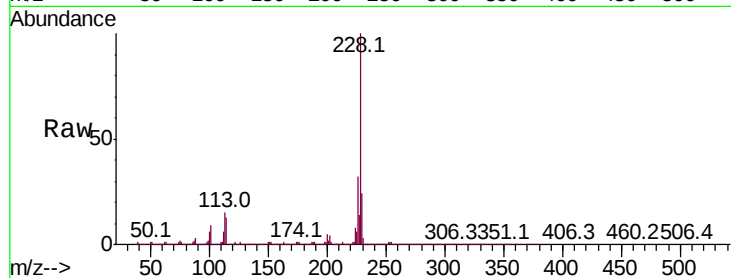
#83
Chrysene
Concen: 173.969 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.02 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.3	37.9
229	24.2	17.2	25.8

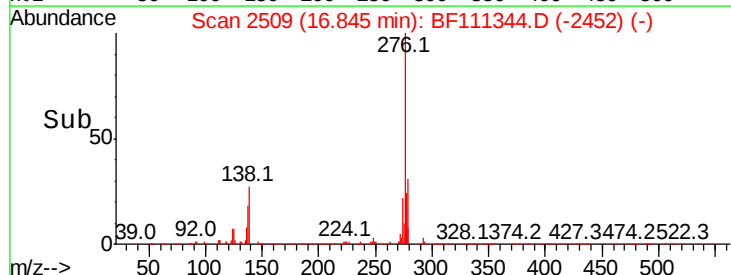
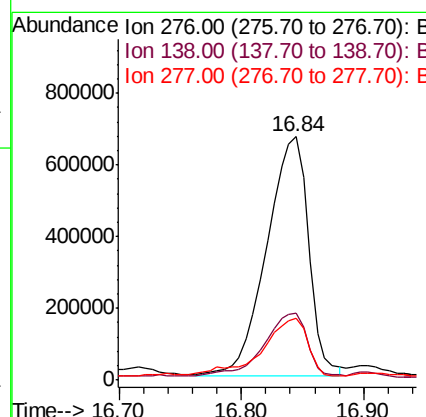
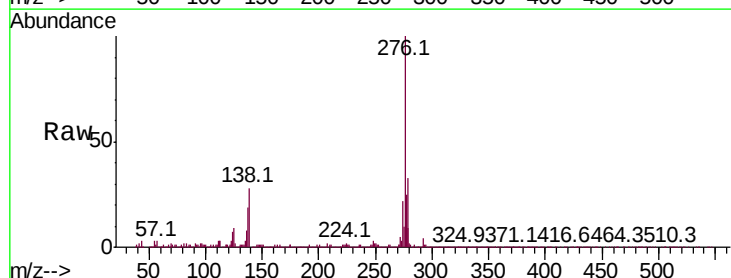
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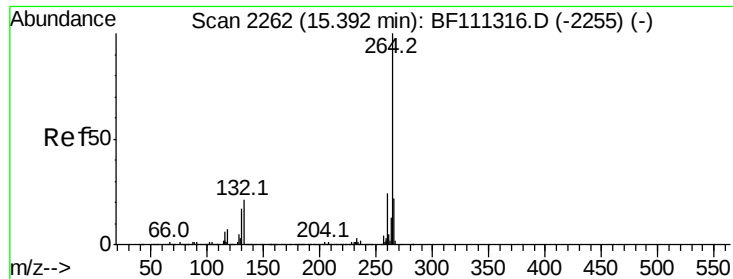
Sohil
12/13/2018 6:06:56 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 114.714 ng m
RT: 16.84 min Scan# 2509
Delta R.T. 0.04 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	6.1	27.8	41.6#
277	4.4	20.1	30.1#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.41 min Scan# 2265

Delta R.T. 0.02 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

Instrument :

BNA_F

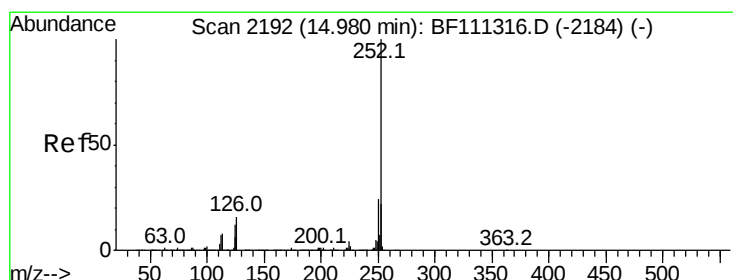
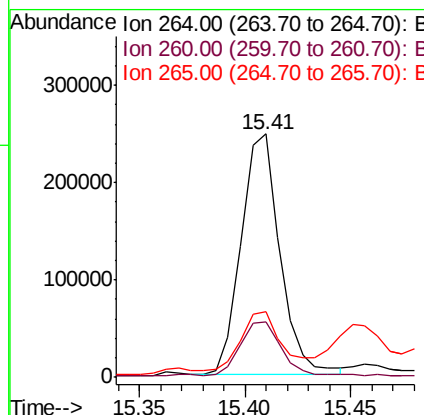
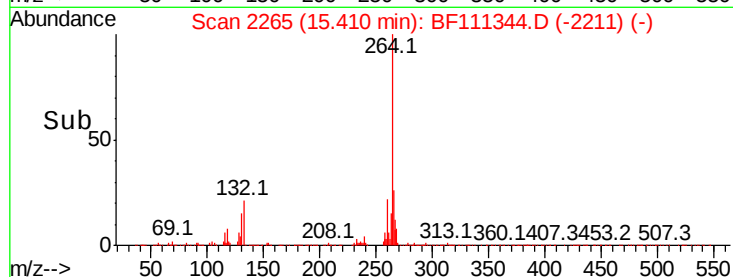
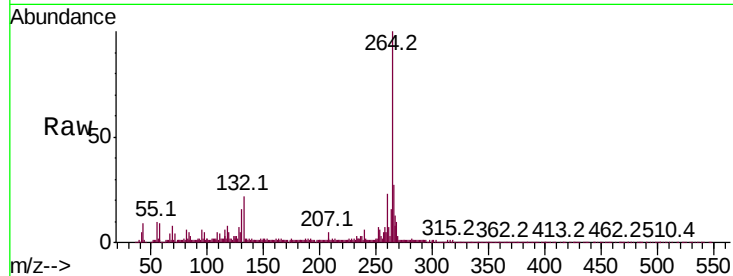
ClientSampleId :

SB-9(0-2)

Tot Ion:	264	Resp:	315107
Ion Ratio	Lower	Upper	
264	100		
260	22.9	18.3	27.5
265	27.2	17.7	26.5#

Manual Integrations
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12/13/2018 6:06:56 PM



#88

Benzo(b)fluoranthene

Concen: 232.317 ng m

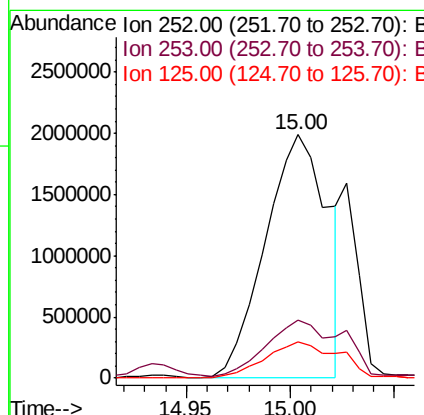
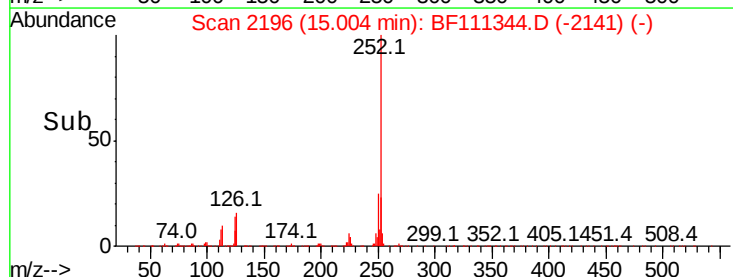
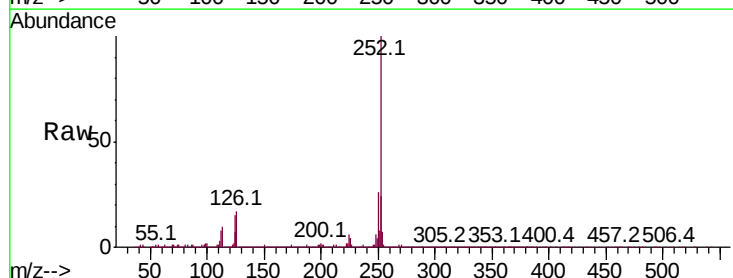
RT: 15.00 min Scan# 2196

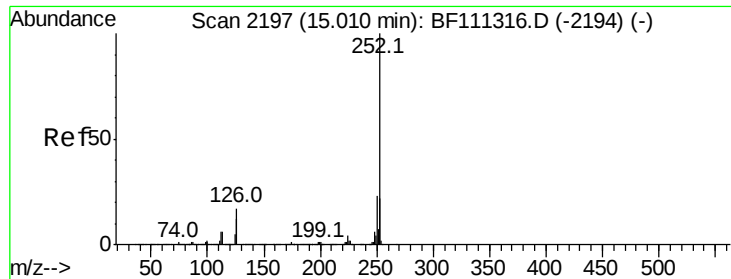
Delta R.T. 0.02 min

Lab File: BF111344.D

Acq: 13 Dec 2018 1:40

Tgt Ion:	252	Resp:	4162685
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.2	27.2
125	14.8	10.4	15.6





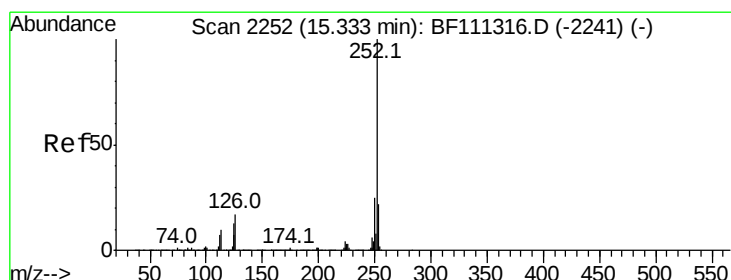
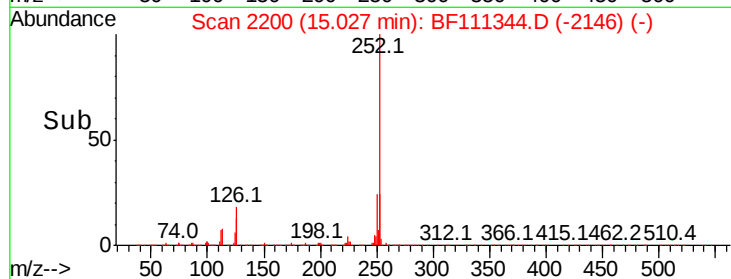
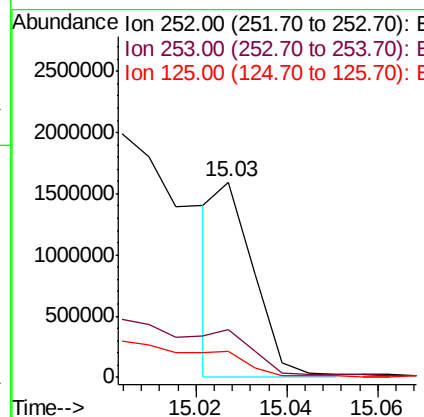
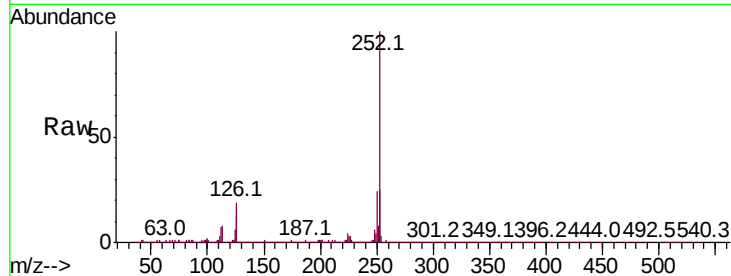
#89
Benzo(k)fluoranthene
Concen: 51.704 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.02 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampled :
SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.1	27.1
125	13.1	9.8	14.8

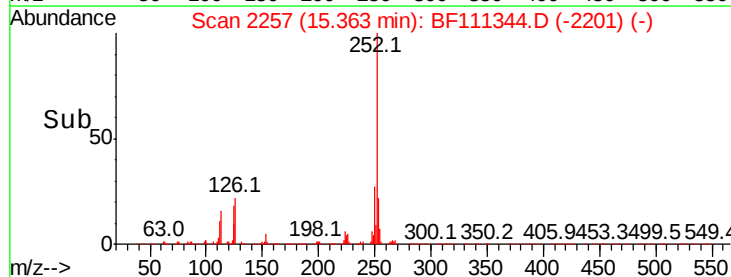
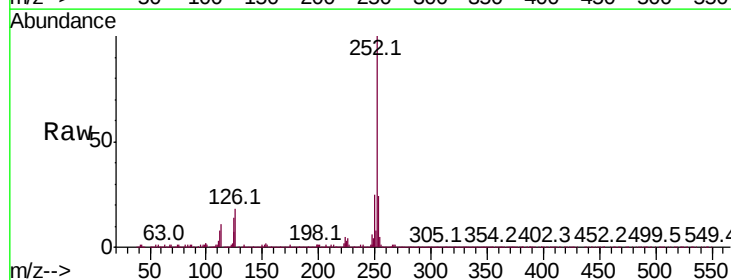
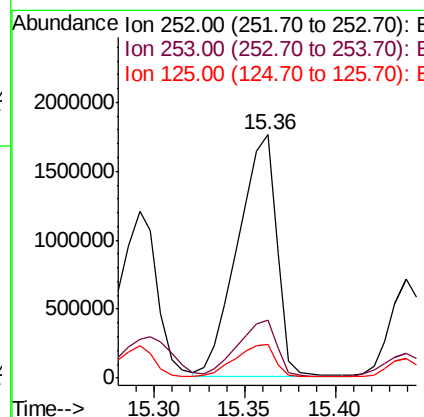
Manual Integrations
APPROVED

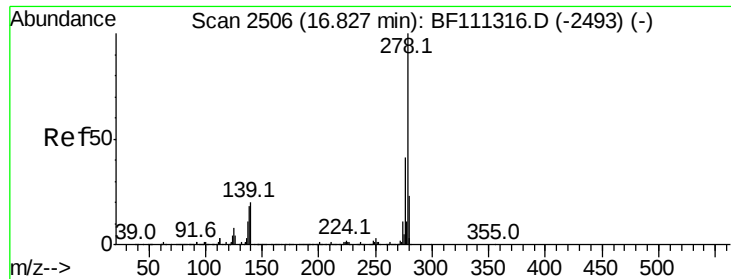
Sohil
12/13/2018 6:06:56 PM



#90
Benzo(a)pyrene
Concen: 157.890 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.03 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	13.7	12.3	18.5





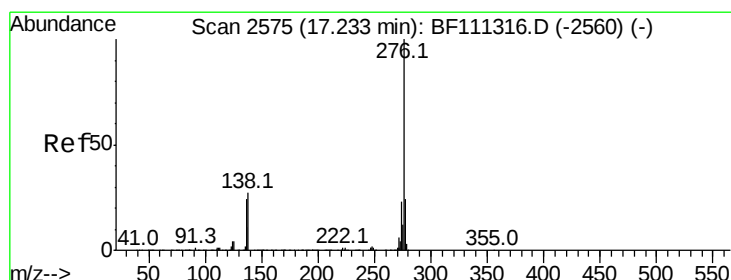
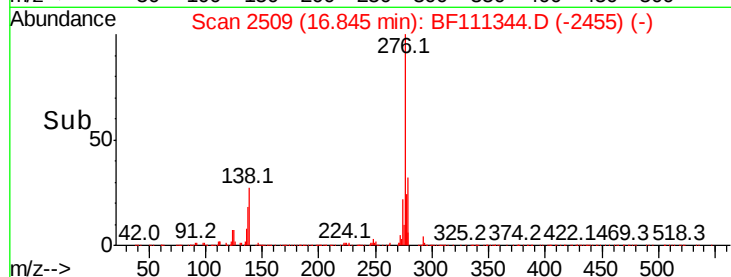
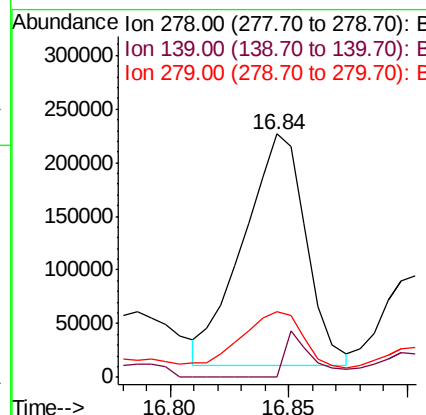
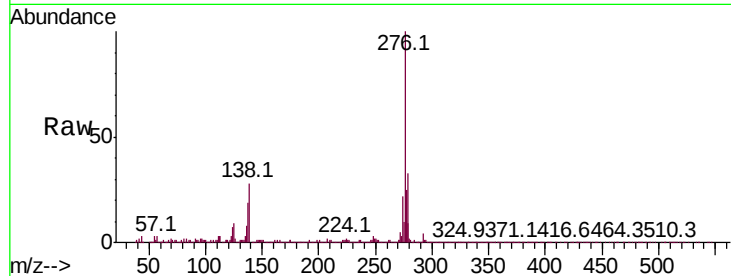
#91
Dibenzo(a,h)anthracene
Concen: 28.611 ng m
RT: 16.84 min Scan# 2509
Delta R.T. 0.02 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	18.2	27.4#
279	27.2	19.0	28.6

Manual Integrations
APPROVED

Sohil
12/13/2018 6:06:56 PM



#92
Benzo(g,h,i)perylene
Concen: 99.330 ng
RT: 17.27 min Scan# 2582
Delta R.T. 0.04 min
Lab File: BF111344.D
Acq: 13 Dec 2018 1:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.2	28.8
138	28.3	24.9	37.3

