

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
 Data File : BF113016.D
 Acq On : 12 Mar 2019 21:30
 Operator : JU/SJ
 Sample : K1847-15
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-7B-C-2-031119

Manual Integrations
 APPROVED

Sohil
 3/13/2019 11:40:40 AM

Quant Time: Mar 13 04:40:21 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	193088	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	693791	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	315883	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	579492	20.00	ng	0.00
76) Chrysene-d12	13.87	240	495217	20.00	ng	0.00
87) Perylene-d12	15.27	264	454712	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	1309958	105.53	ng	0.00
7) Phenol-d6	6.37	99	1695440	108.73	ng	0.00
23) Nitrobenzene-d5	7.29	82	1033263	89.12	ng	0.00
42) 2,4,6-Tribromophenol	10.55	330	453095	135.11	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	1666954	88.36	ng	0.00
79) Terphenyl-d14	12.82	244	1541190	60.33	ng	0.00
Target Compounds						
31) Naphthalene	8.03	128	79126	2.297	ng	99
50) Dimethylphthalate	9.48	163	157944	6.781	ng	98
52) Acenaphthene	9.79	154	88427	4.427	ng	99
58) Fluorene	10.30	166	79453	3.856	ng	96
71) Phenanthrene	11.26	178	1118369	38.789	ng	99
72) Anthracene	11.32	178	170929	5.663	ng	96
73) Carbazole	11.47	167	152987	5.196	ng	98
75) Fluoranthene	12.45	202	1531035	49.564	ng	97
78) Pyrene	12.67	202	1310397	31.388	ng	99
81) Benzo(a)anthracene	13.86	228	765438	22.302	ng	99
83) Chrysene	13.89	228	720635	21.435	ng	96
86) Indeno(1,2,3-cd)pyrene	16.63	276	245814m	8.576	ng	
88) Benzo(b)fluoranthene	14.88	252	775872m	26.379	ng	
89) Benzo(k)fluoranthene	14.90	252	283147m	10.628	ng	
90) Benzo(a)pyrene	15.22	252	502145	19.302	ng	98
91) Dibenzo(a,h)anthracene	16.63	278	72886m	3.283	ng	
92) Benzo(a,h,i)perylene	17.04	276	200994	9.017	ng	96

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

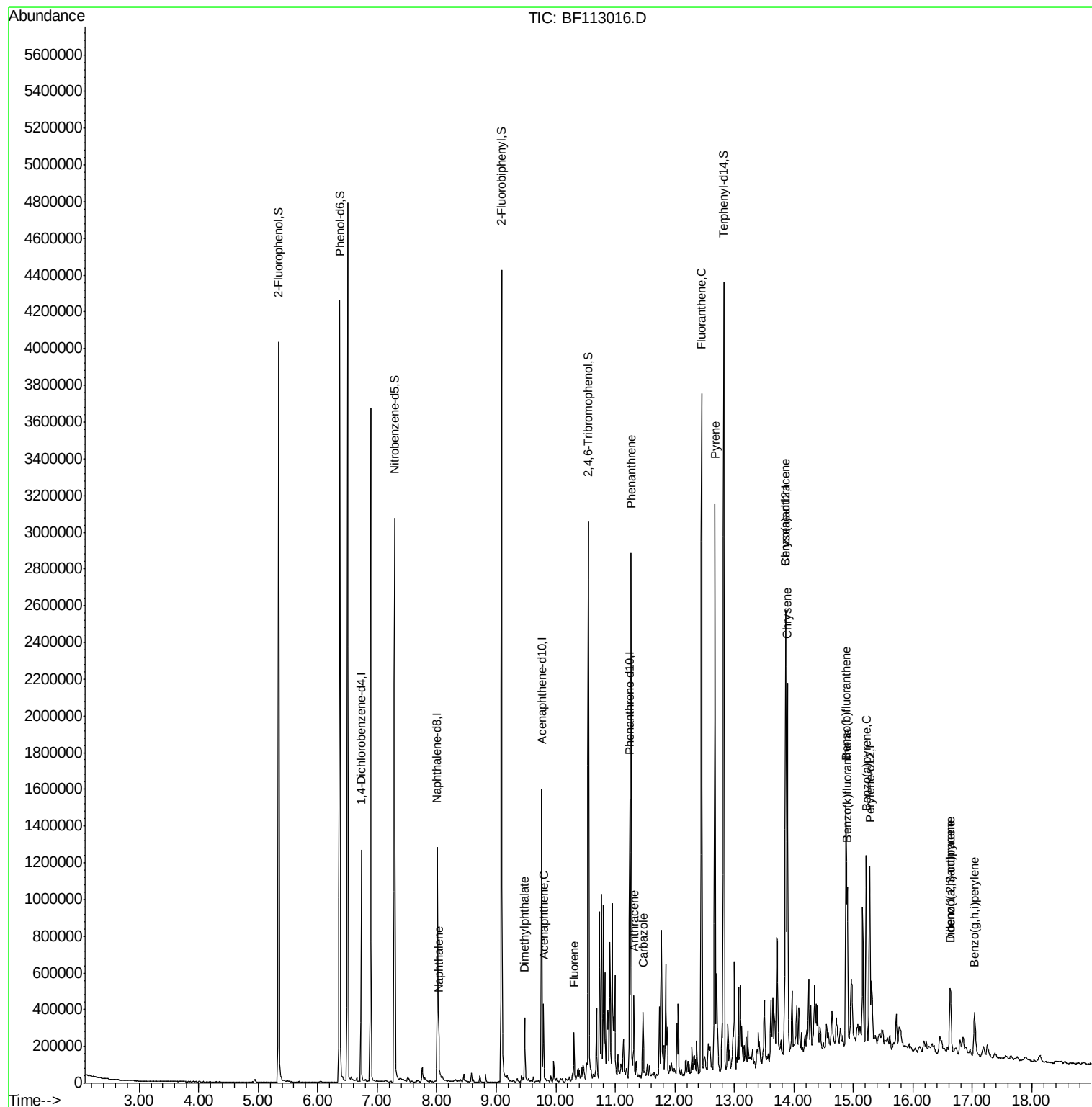
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
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ALS Vial : 19 Sample Multiplier: 1

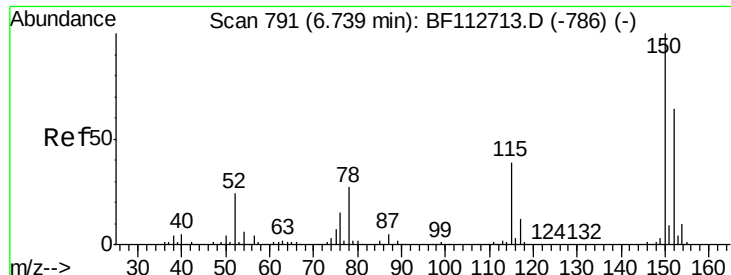
Instrument :
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SUP-7B-C-2-031119

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#1

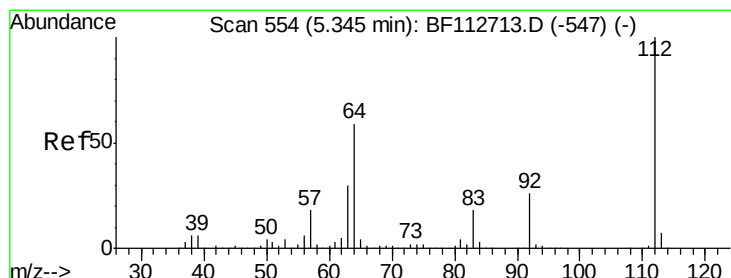
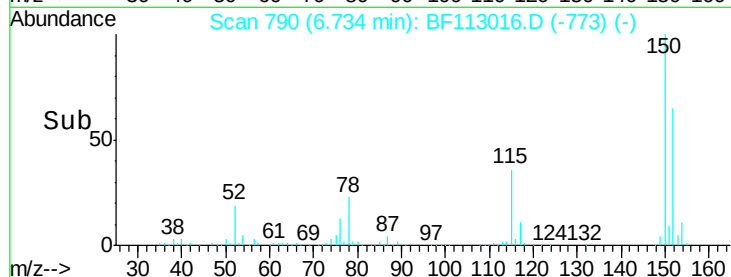
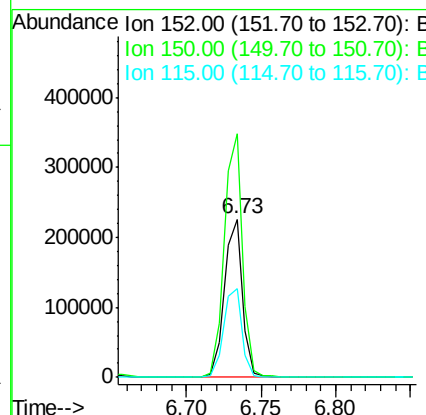
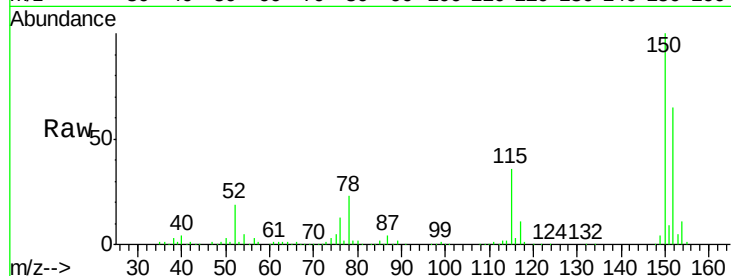
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 790
 Delta R.T. -0.00 min
 Lab File: BF113016.D
 Acq: 12 Mar 2019 21:30

Instrument :
 BNA_F
 ClientSampleId :
 SUP-7B-C-2-031119

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.2	186.2
115	55.9	48.2	72.4

Manual Integrations
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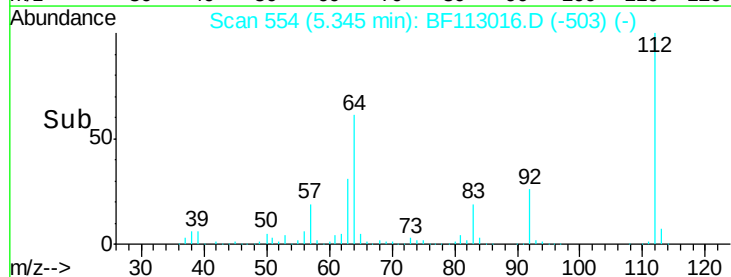
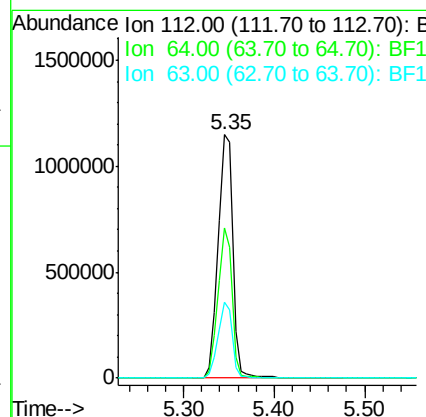
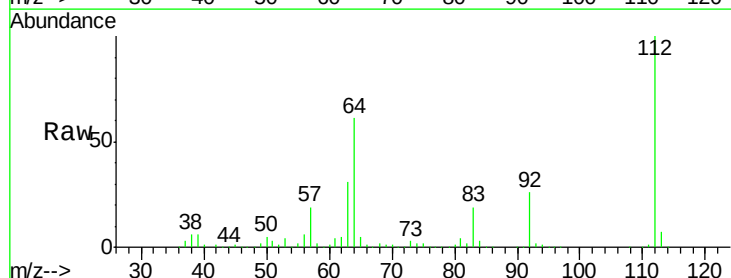
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 3/13/2019 11:40:40 AM

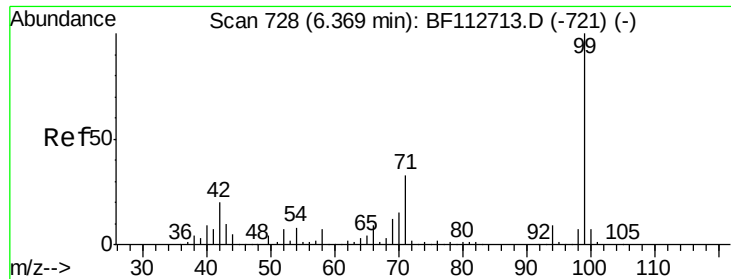


#5

2-Fluorophenol
 Concen: 105.532 ng
 RT: 5.35 min Scan# 554
 Delta R.T. -0.00 min
 Lab File: BF113016.D
 Acq: 12 Mar 2019 21:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	47.6	71.4
63	31.1	24.4	36.6





#7

Phenol-d6

Concen: 108.733 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.00 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Instrument :

BNA_F

ClientSampleId :

SUP-7B-C-2-031119

Tot Ion: 99 Resp: 1695440

Ion Ratio Lower Upper

99 100

42 18.8 16.3 24.5

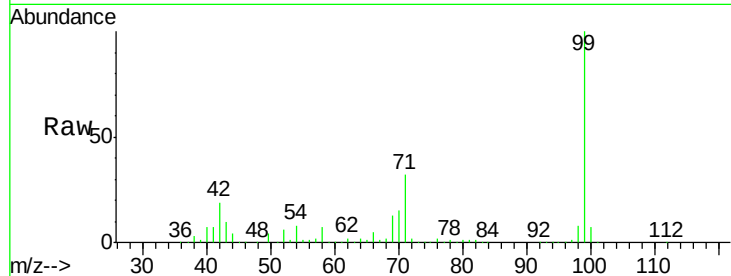
71 32.5 26.2 39.4

Manual Integrations

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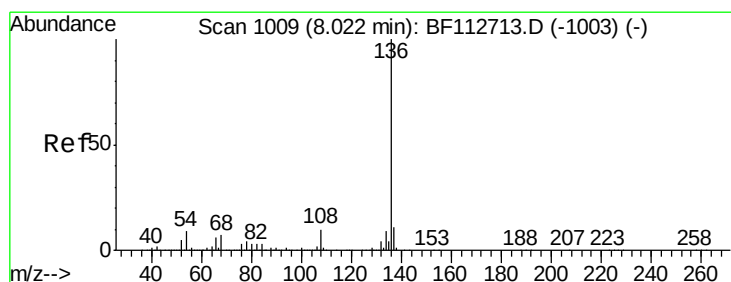
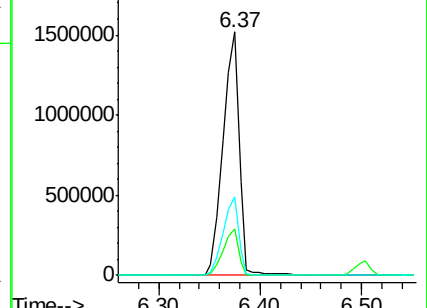
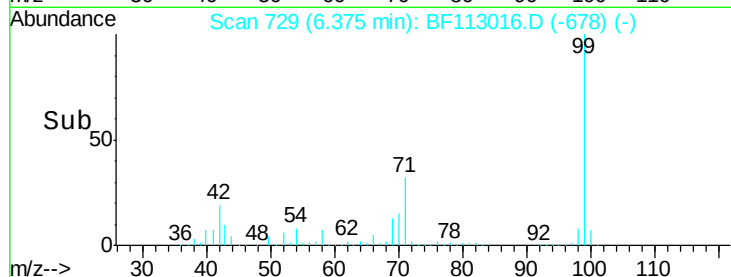
3/13/2019 11:40:40 AM



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Tgt Ion: 136 Resp: 693791

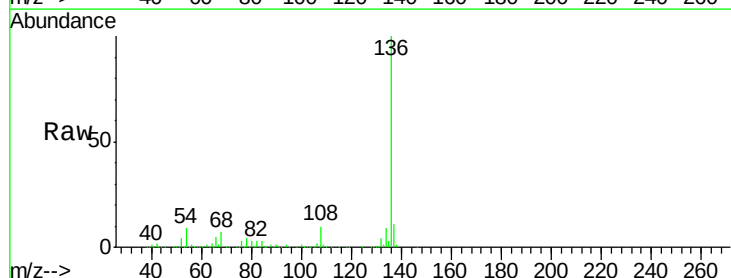
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 8.7 7.3 10.9

68 6.7 5.4 8.2

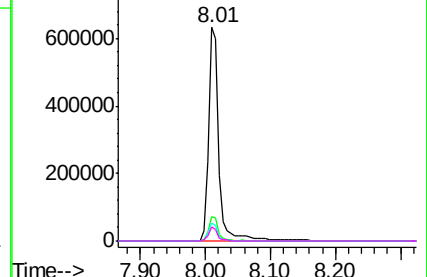
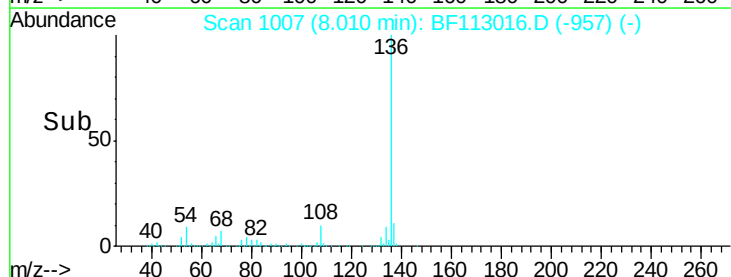


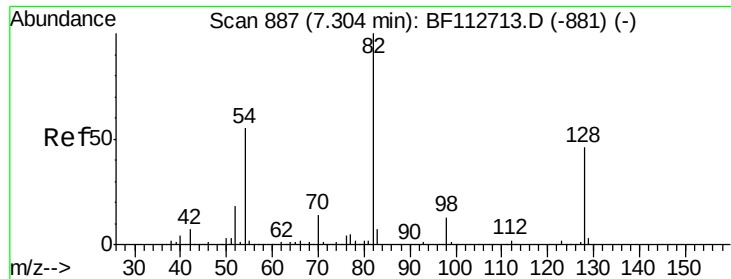
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





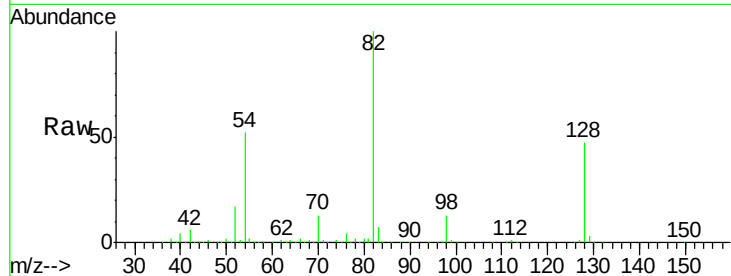
#23
Nitrobenzene-d5
Concen: 89.117 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Instrument :
BNA_F
ClientSampleId :
SUP-7B-C-2-031119

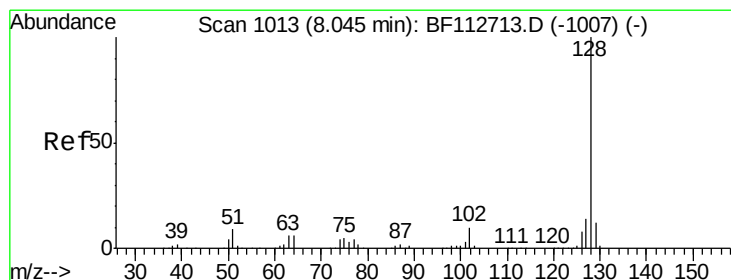
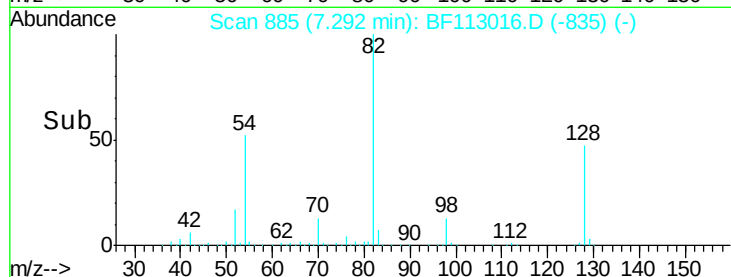
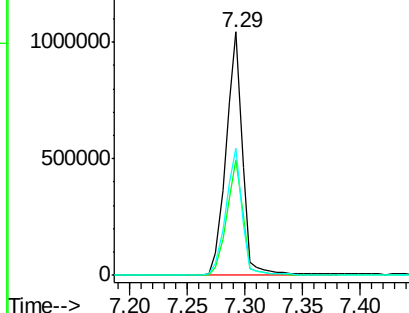
Tot Ion: 82 Resp: 1033263
Ion Ratio Lower Upper
82 100
128 47.3 36.3 54.5
54 52.3 43.7 65.5

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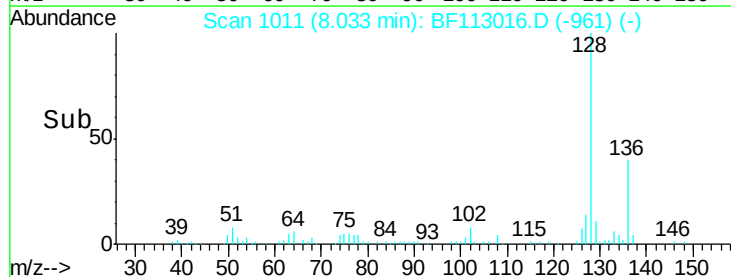
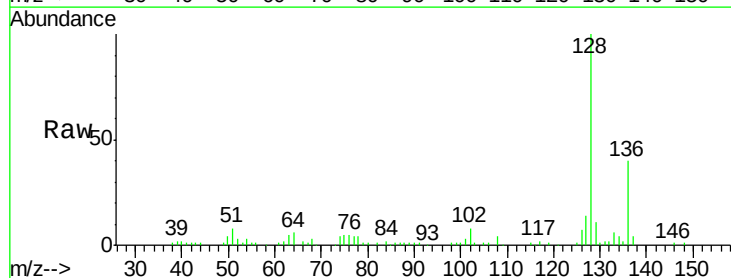
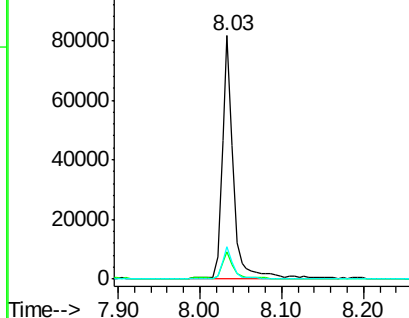
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

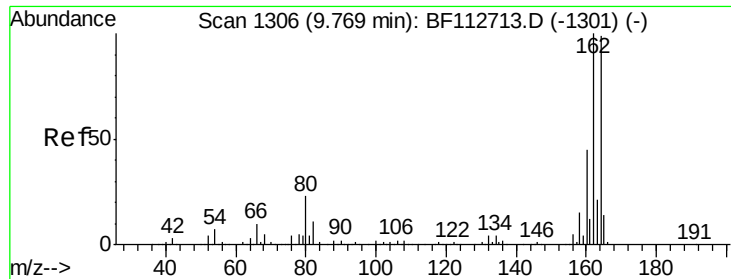


#31
Naphthalene
Concen: 2.297 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Tgt Ion: 128 Resp: 79126
Ion Ratio Lower Upper
128 100
129 11.1 9.3 13.9
127 13.6 10.9 16.3

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





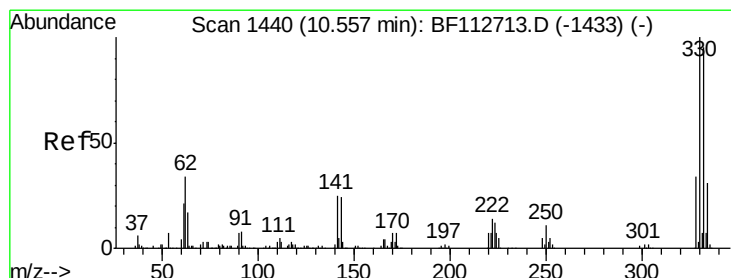
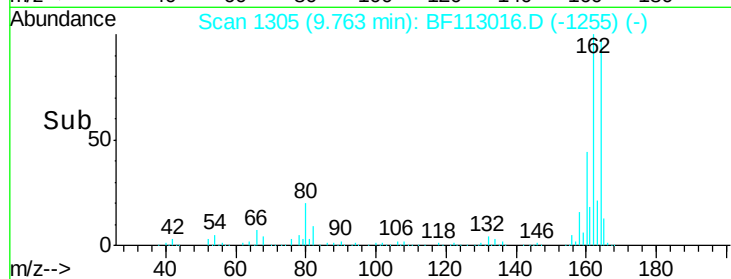
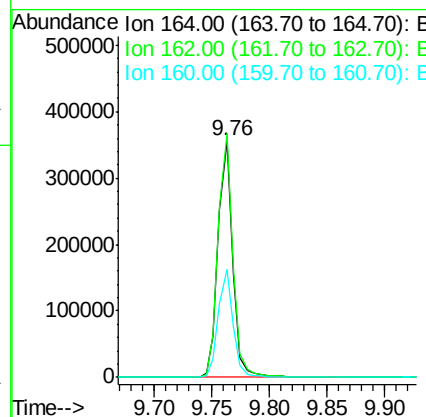
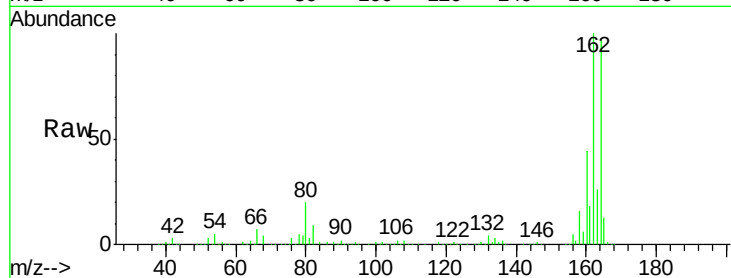
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BF113016.D
 Acq: 12 Mar 2019 21:30

Instrument :
 BNA_F
 ClientSampleId :
 SUP-7B-C-2-031119

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.9	80.6	120.8	
160	45.6	36.0	54.0	

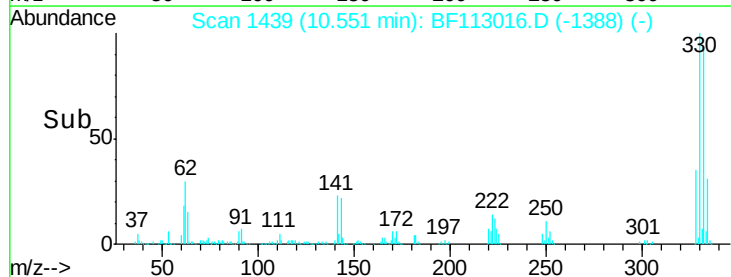
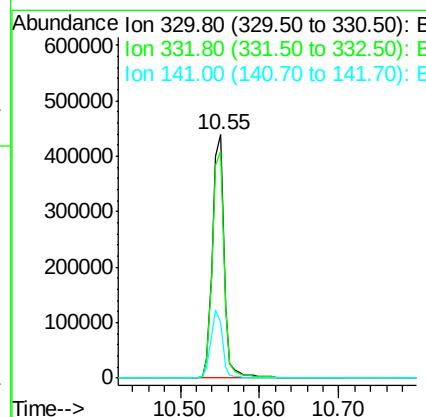
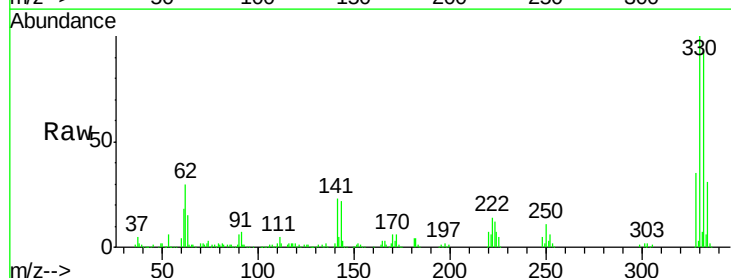
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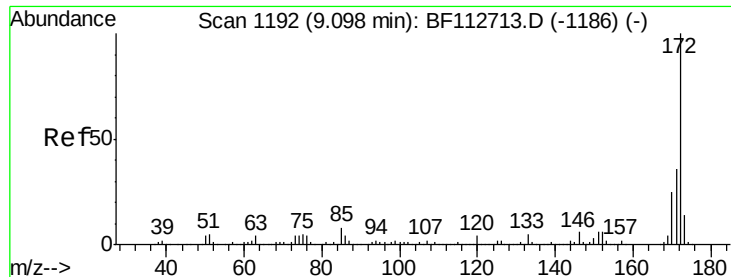
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#42
 2,4,6-Tribromophenol
 Concen: 135.111 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.00 min
 Lab File: BF113016.D
 Acq: 12 Mar 2019 21:30

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.0	76.2	114.4	
141	28.4	27.0	40.6	





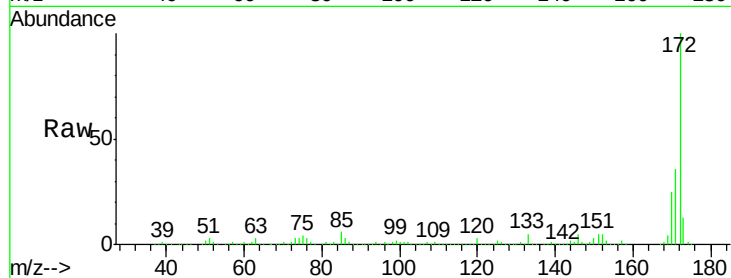
#45
2-Fluorobiphenyl
Concen: 88.356 ng
RT: 9.09 min Scan# 1191
Delta R.T. -0.00 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Instrument :
BNA_F
ClientSampleId :
SUP-7B-C-2-031119

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.5	20.0	30.0

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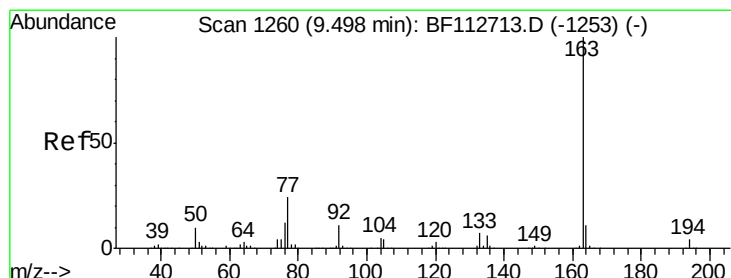
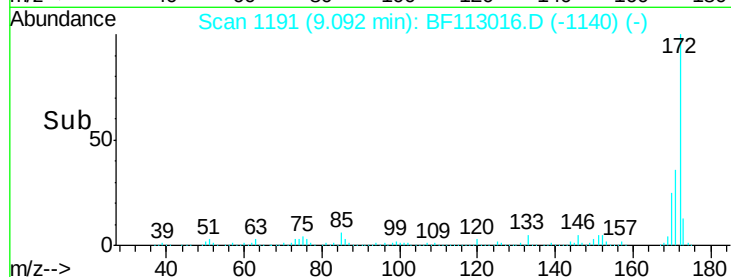
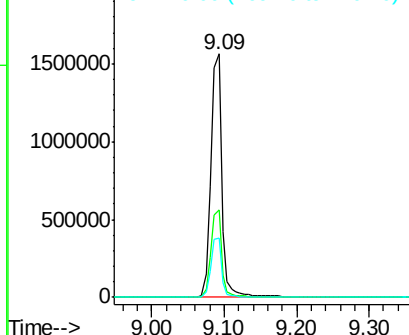


Abundance

Ion 172.00 (171.70 to 172.70): E

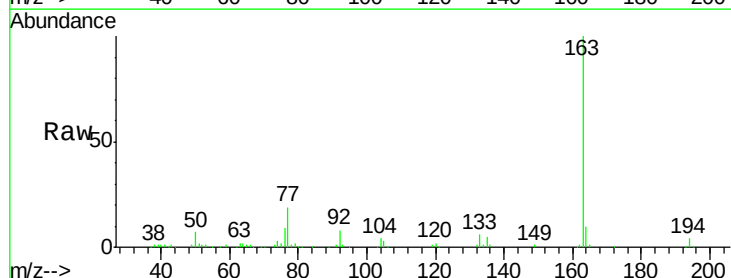
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50
Dimethylphthalate
Concen: 6.781 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.4
164	9.7	8.4	12.6

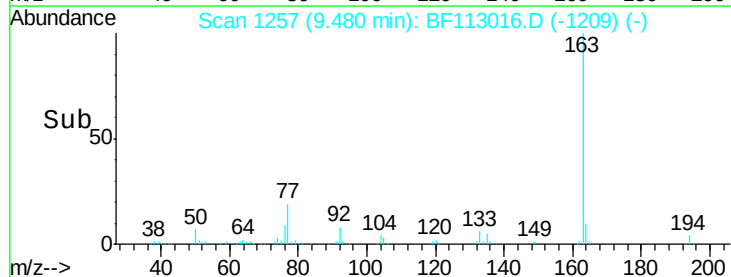
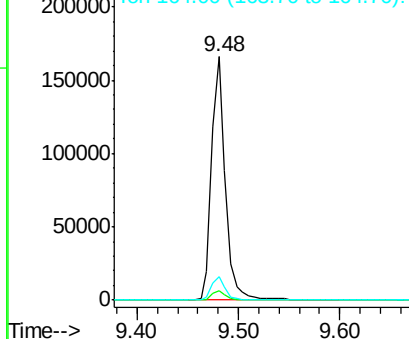


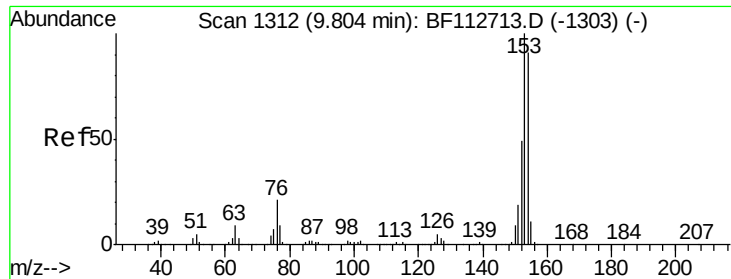
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 4.427 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Instrument :

BNA_F

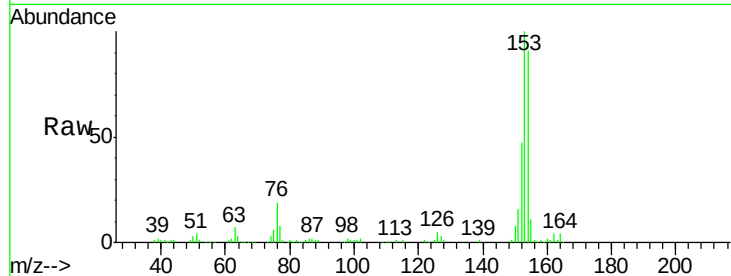
ClientSampleId :

SUP-7B-C-2-031119

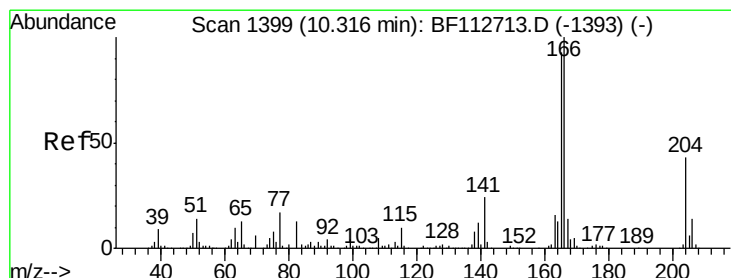
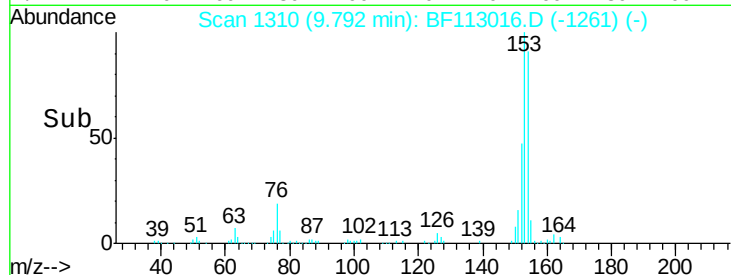
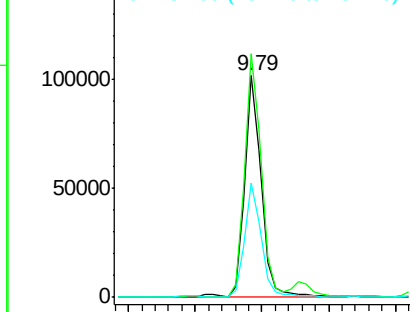
Tot Ion:	154	Resp:	88427
Ion Ratio	Lower	Upper	
154	100		
153	109.9	87.8	131.8
152	51.9	43.0	64.6

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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



#58

Fluorene

Concen: 3.856 ng

RT: 10.30 min Scan# 1397

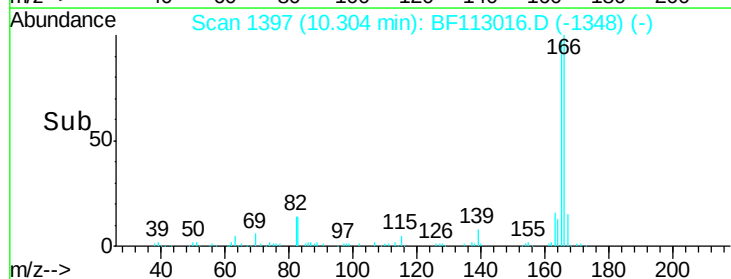
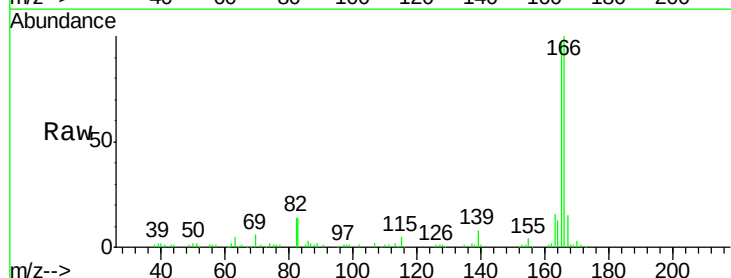
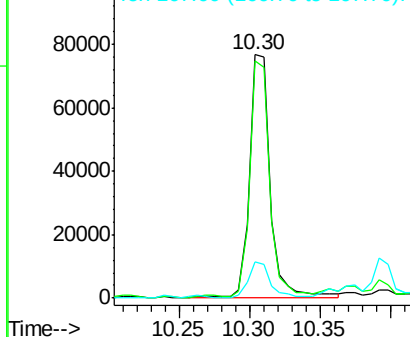
Delta R.T. -0.01 min

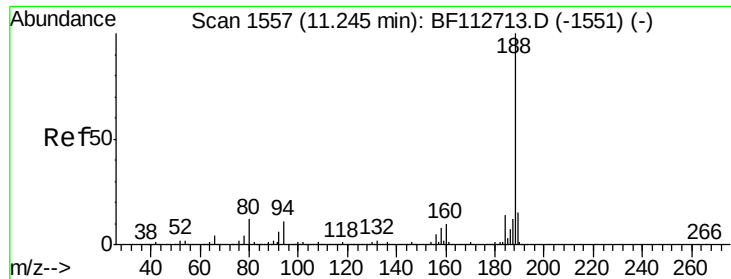
Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Tgt Ion:	166	Resp:	79453
Ion Ratio	Lower	Upper	
166	100		
165	97.2	74.7	112.1
167	14.9	11.0	16.6

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





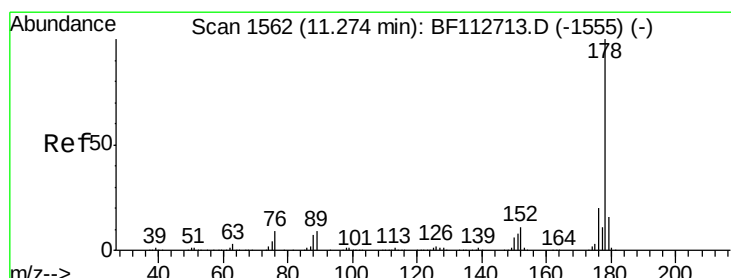
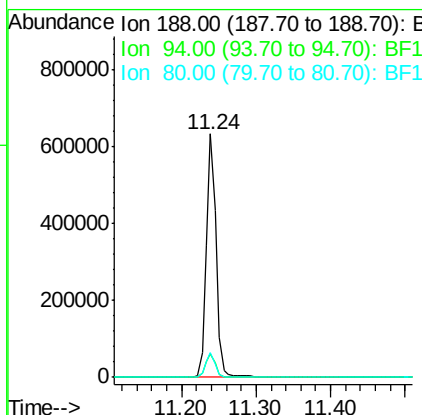
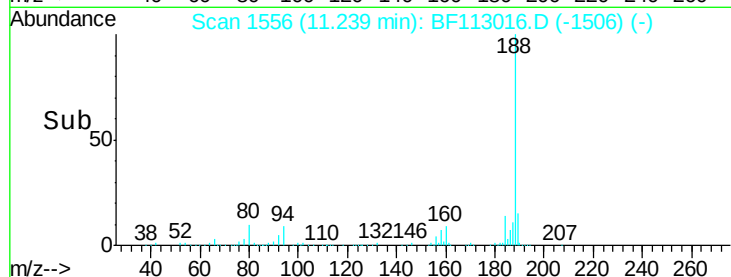
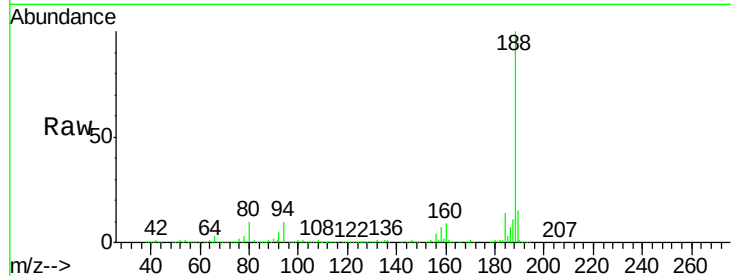
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Instrument :
BNA_F
ClientSampleId :
SUP-7B-C-2-031119

Tot Ion	Ratio	Resp	Lower	Upper
188	100	579492		
94	9.7		9.0	13.4
80	10.1		9.2	13.8

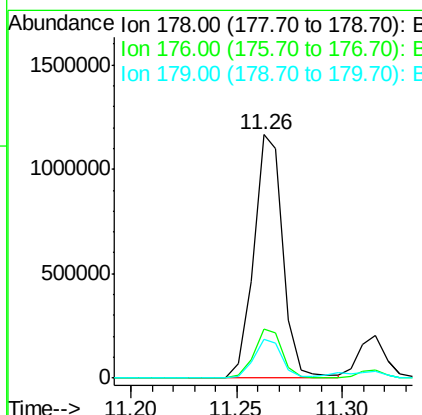
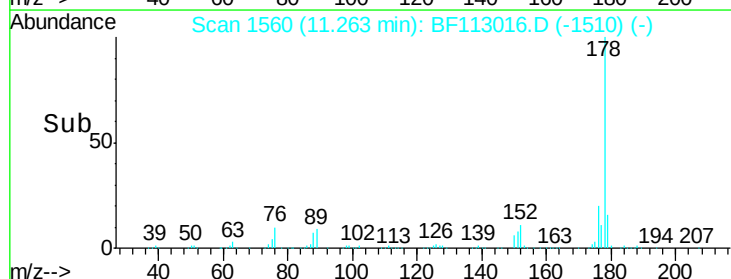
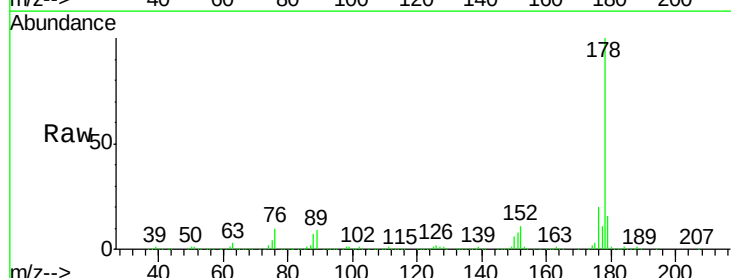
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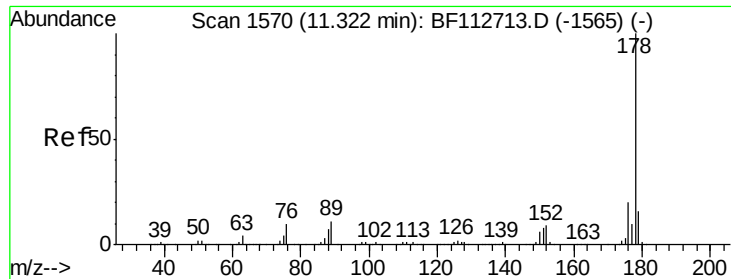
Sohil
3/13/2019 11:40:40 AM



#71
Phenanthrene
Concen: 38.789 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1118369		
176	20.0		16.3	24.5
179	16.2		12.7	19.1





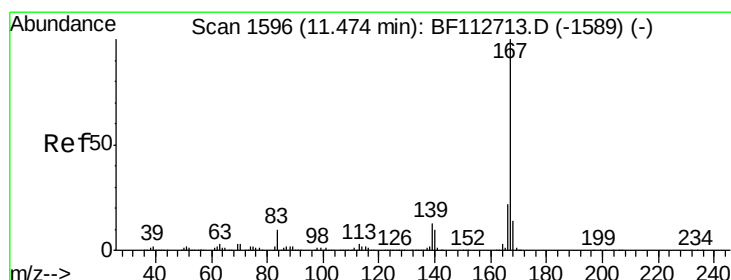
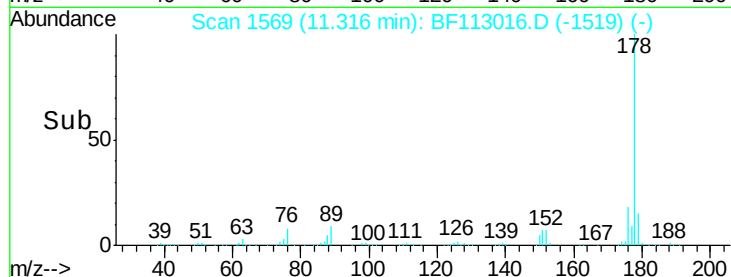
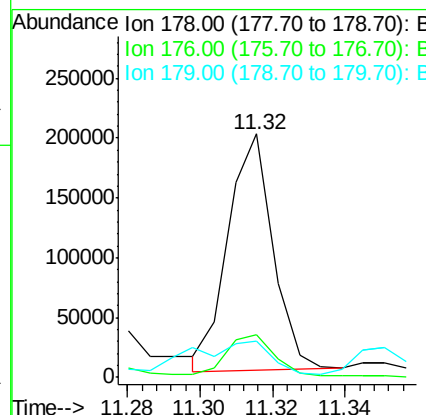
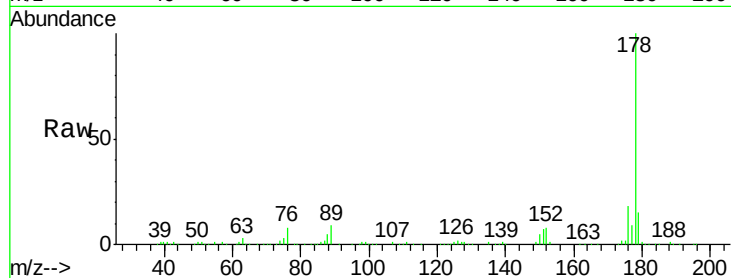
#72
 Anthracene
 Concen: 5.663 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF113016.D
 Acq: 12 Mar 2019 21:30

Instrument :
 BNA_F
 ClientSampleId :
 SUP-7B-C-2-031119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
178	100		170929		
176	17.6	15.8	23.6		
179	15.1	13.0	19.6		

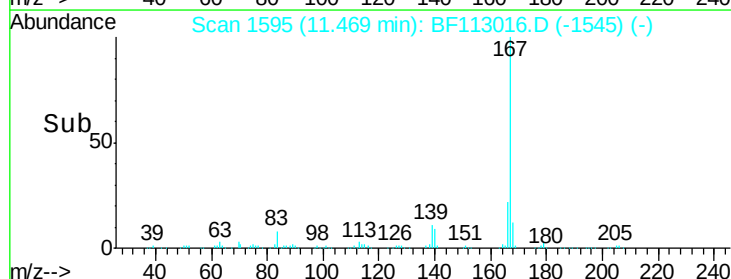
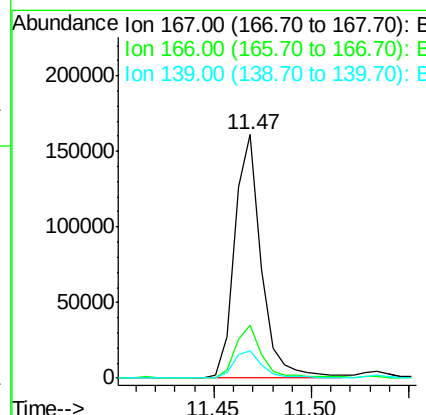
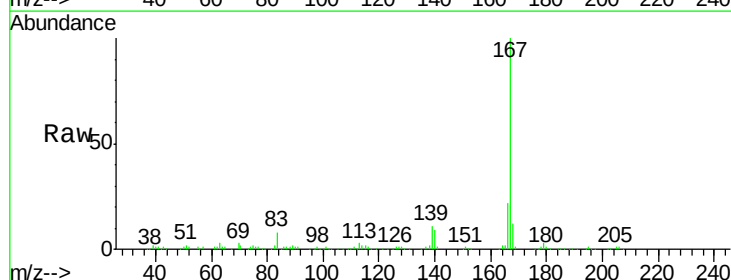
Manual Integrations
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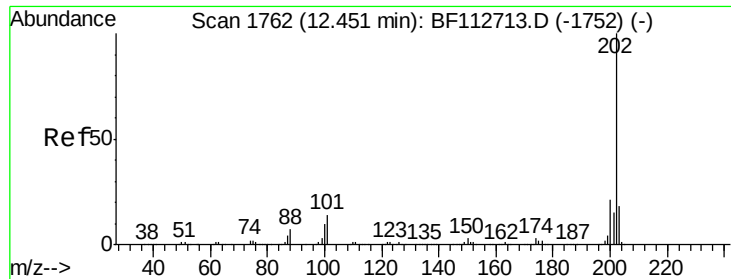
Sohil
 3/13/2019 11:40:40 AM



#73
 Carbazole
 Concen: 5.196 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: BF113016.D
 Acq: 12 Mar 2019 21:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
167	100		152987		
166	21.7	17.5	26.3		
139	11.3	10.8	16.2		





#75

Fluoranthene

Concen: 49.564 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Instrument :

BNA_F

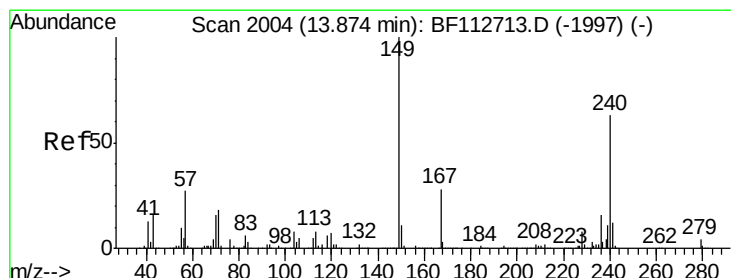
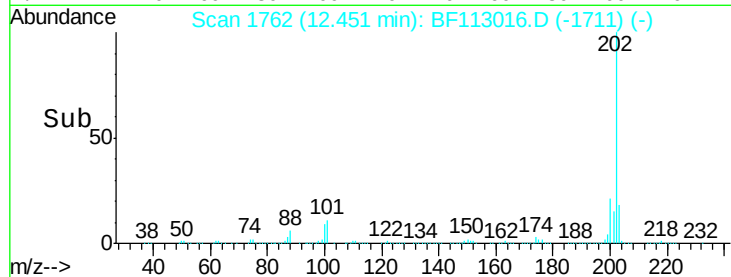
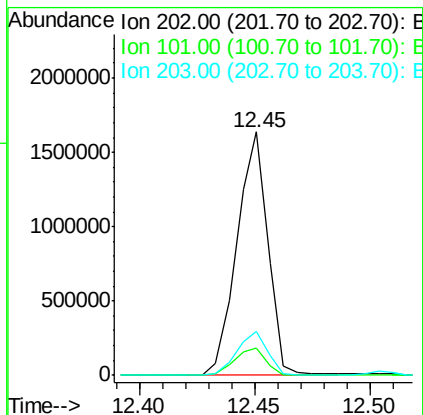
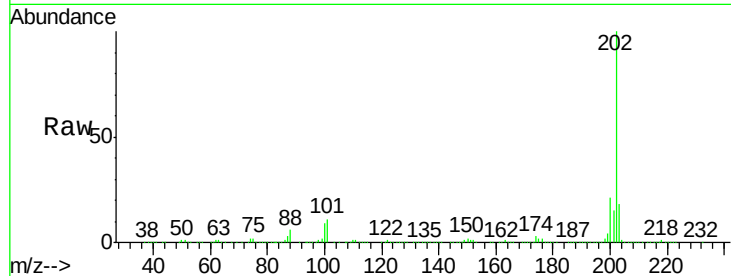
ClientSampleId :

SUP-7B-C-2-031119

Tot Ion:	202	Resp:	1531035
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	33.8
203	18.1	0.0	38.4

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#76

Chrysene-d12

Concen: 20.000 ng

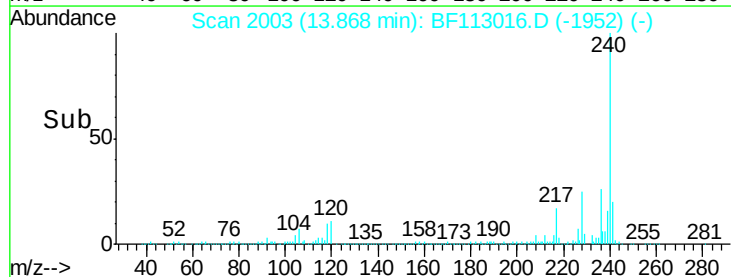
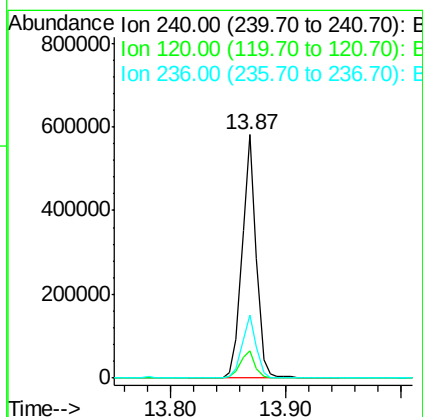
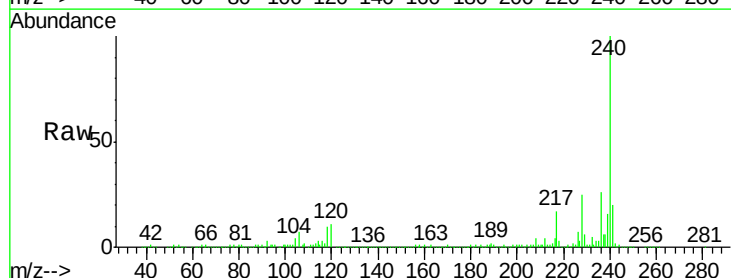
RT: 13.87 min Scan# 2003

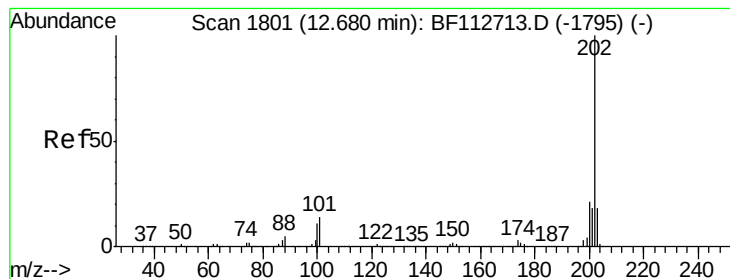
Delta R.T. -0.00 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Tgt Ion:	240	Resp:	495217
Ion Ratio	Lower	Upper	
240	100		
120	11.1	8.9	13.3
236	26.2	20.7	31.1





#78

Pvrene

Concen: 31.388 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.00 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Instrument :

BNA_F

ClientSampleId :

SUP-7B-C-2-031119

Tot Ion:202 Resp: 1310397

Ion Ratio Lower Upper

202 100

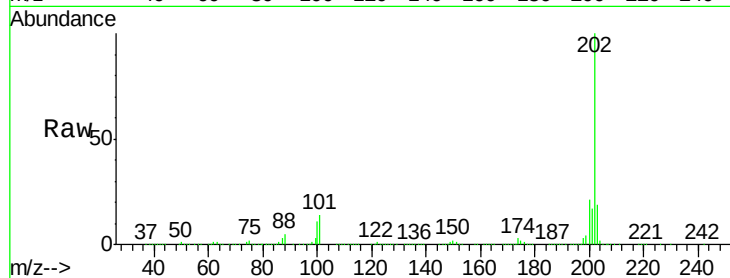
200 20.9 17.0 25.4

203 18.6 14.4 21.6

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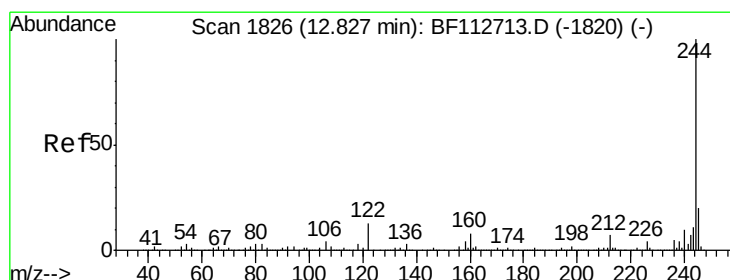
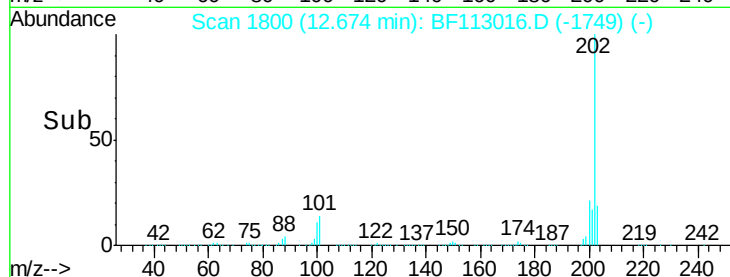
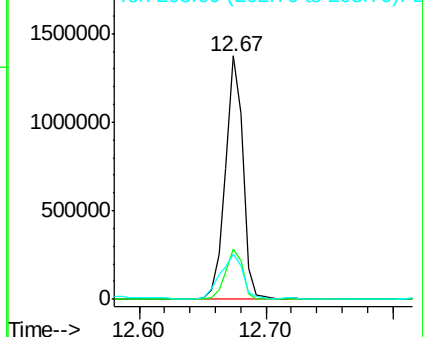
3/13/2019 11:40:40 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 60.329 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.00 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

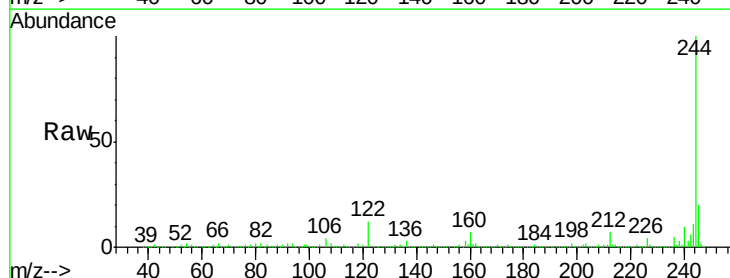
Tgt Ion:244 Resp: 1541190

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

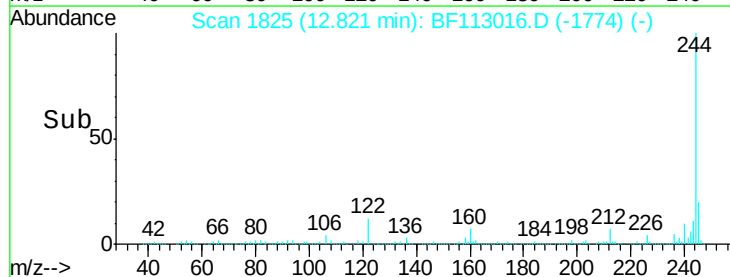
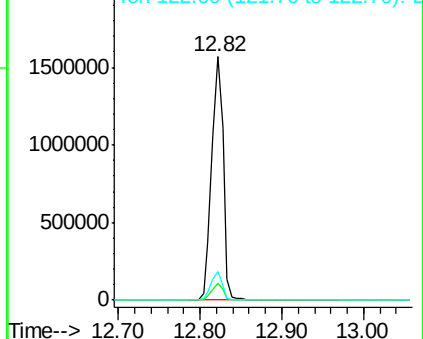
122 11.7 10.5 15.7

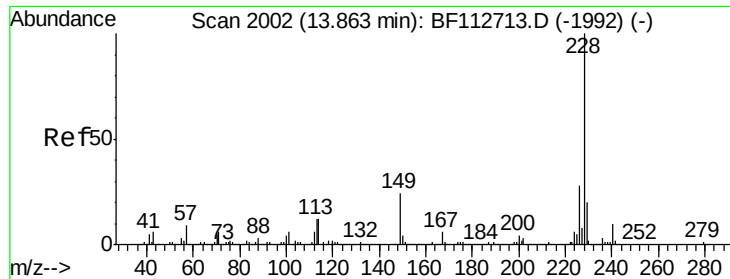


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 22.302 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Instrument :

BNA_F

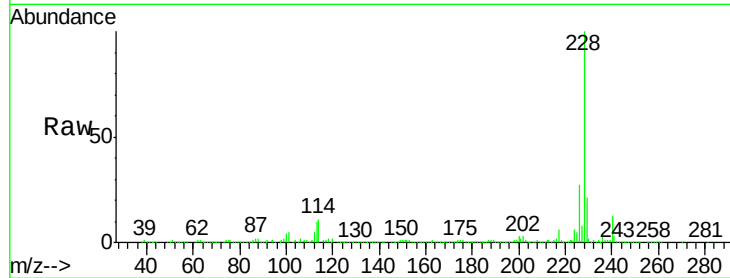
ClientSampleId :

SUP-7B-C-2-031119

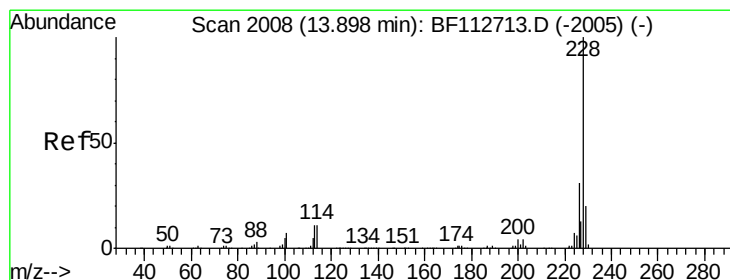
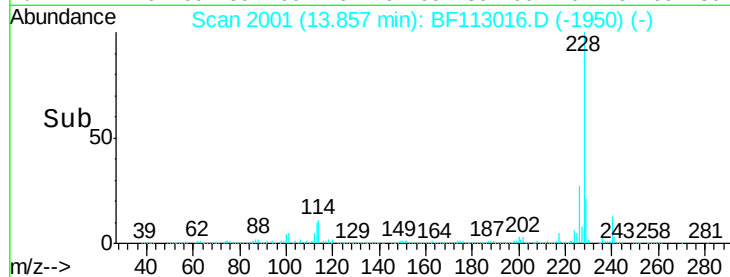
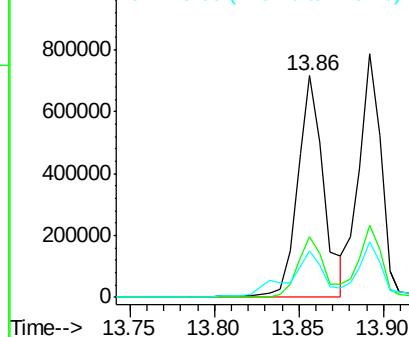
Tot Ion:228	Resp:	765438
Ion Ratio	Lower	Upper
228 100		
226 27.4	22.2	33.4
229 20.8	16.0	24.0

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 21.435 ng

RT: 13.89 min Scan# 2007

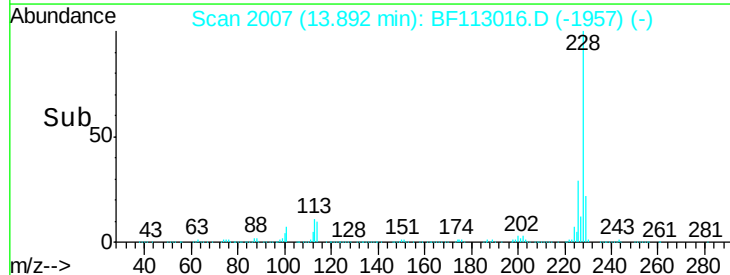
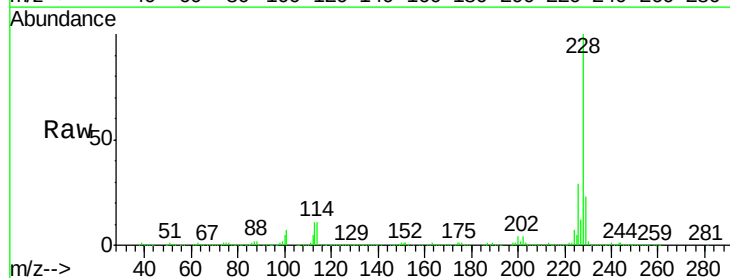
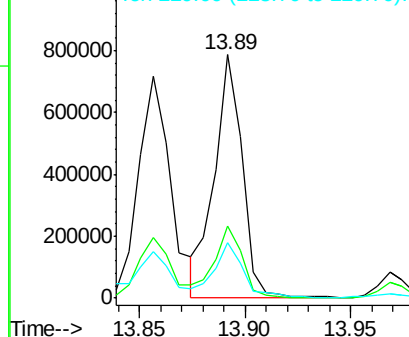
Delta R.T. -0.01 min

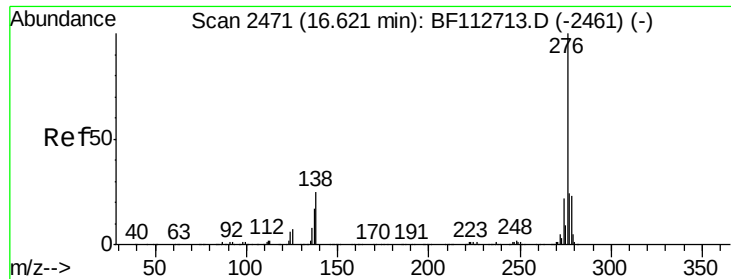
Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Tgt Ion:228	Resp:	720635
Ion Ratio	Lower	Upper
228 100		
226 29.4	24.9	37.3
229 22.7	16.3	24.5

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





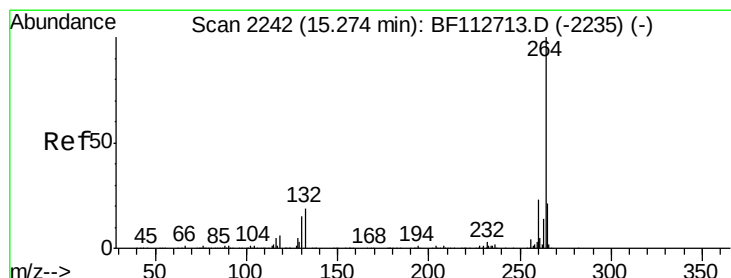
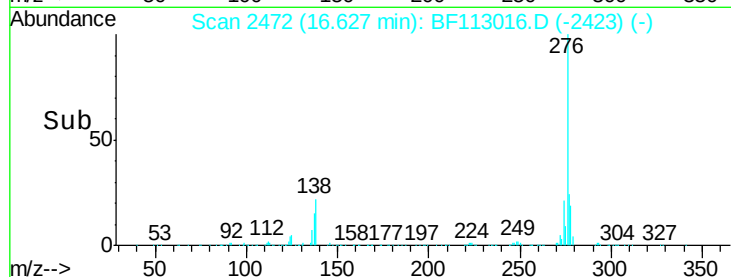
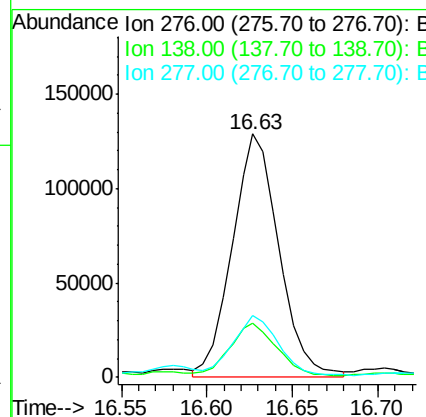
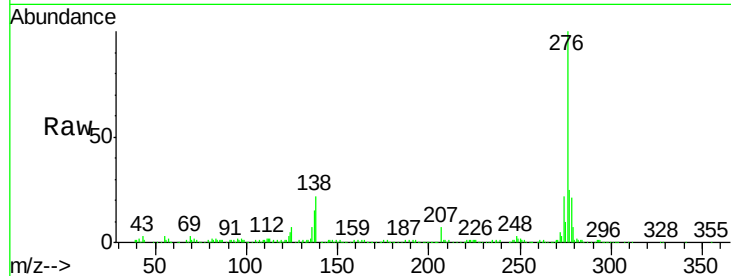
#86
Indeno(1,2,3-cd)pyrene
Concen: 8.576 ng
RT: 16.63 min Scan# 2472
Delta R.T. -0.01 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Instrument :
BNA_F
ClientSampleId :
SUP-7B-C-2-031119

Tot Ion	Ratio	Lower	Upper
276	100		
138	6.1	23.2	34.8#
277	4.5	19.9	29.9#

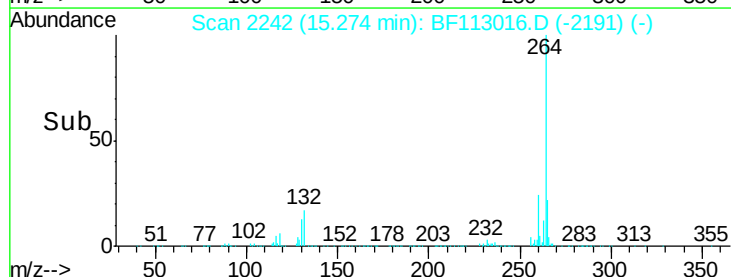
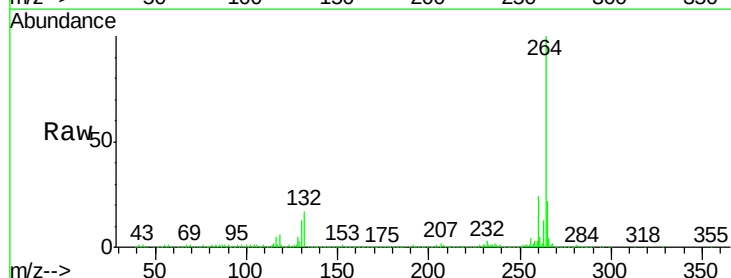
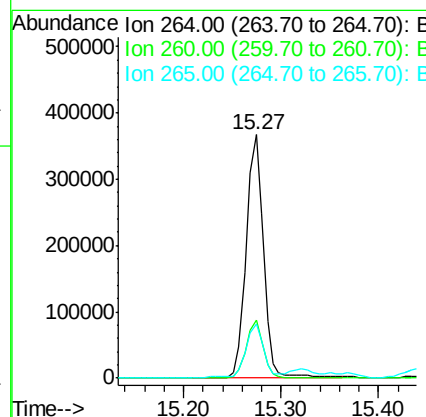
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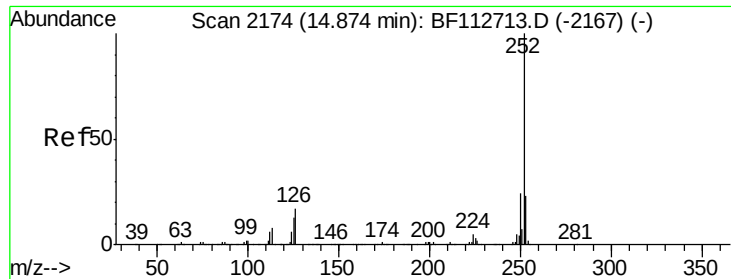
Sohil
3/13/2019 11:40:40 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2242
Delta R.T. -0.00 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.7	28.1
265	22.5	17.2	25.8





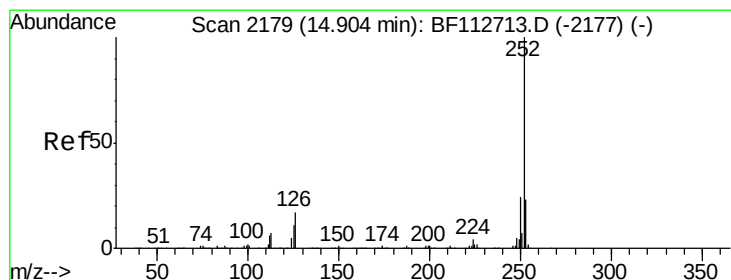
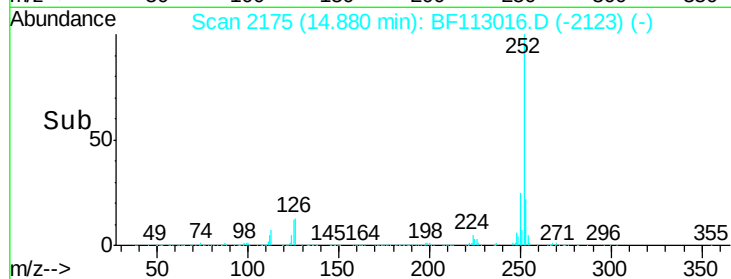
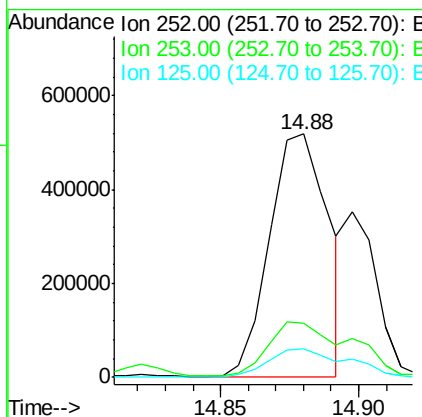
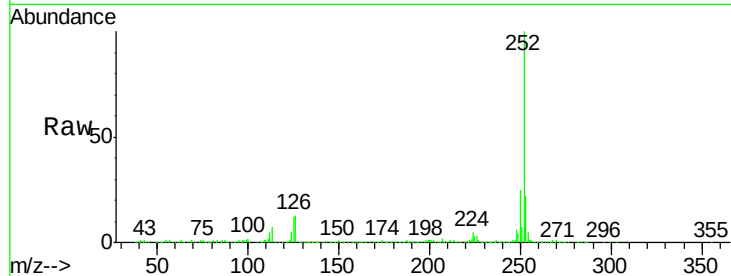
#88
Benzo(b)fluoranthene
Concen: 26.379 ng m
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Instrument :
BNA_F
ClientSampleId :
SUP-7B-C-2-031119

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0
125	11.9	10.2	15.2

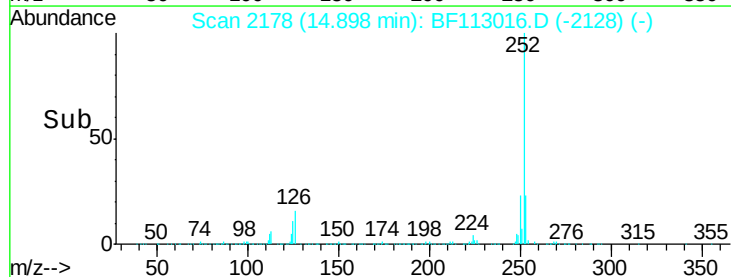
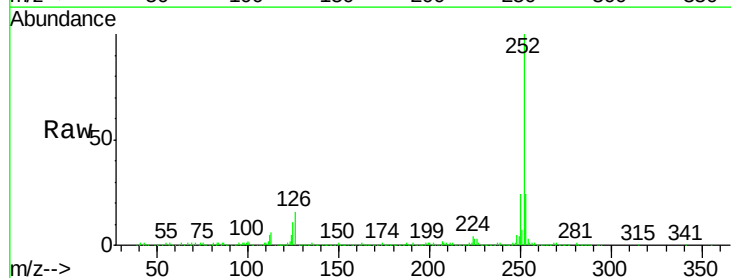
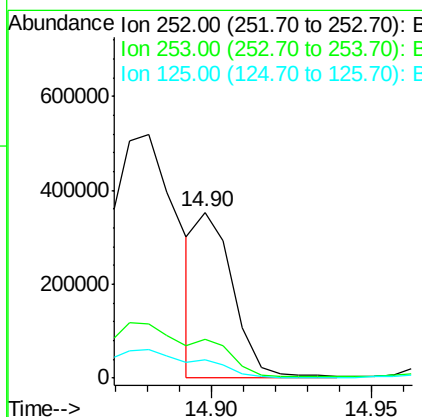
Manual Integrations
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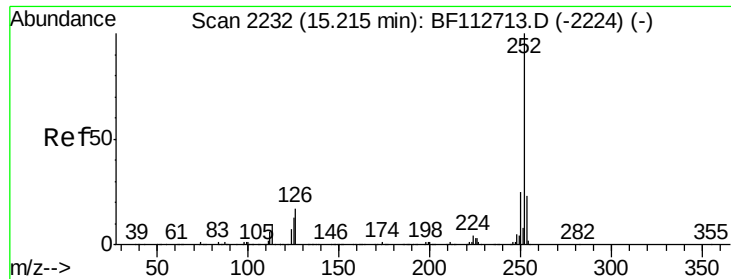
Sohil
3/13/2019 11:40:40 AM



#89
Benzo(k)fluoranthene
Concen: 10.628 ng m
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	11.1	9.8	14.6





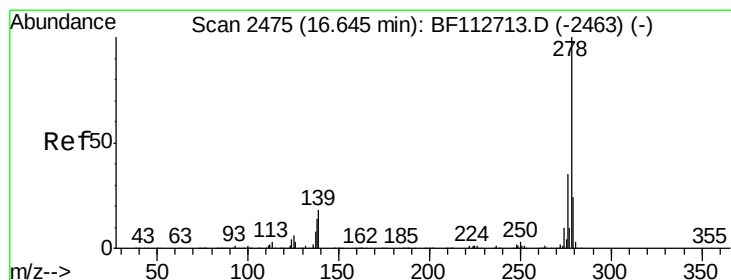
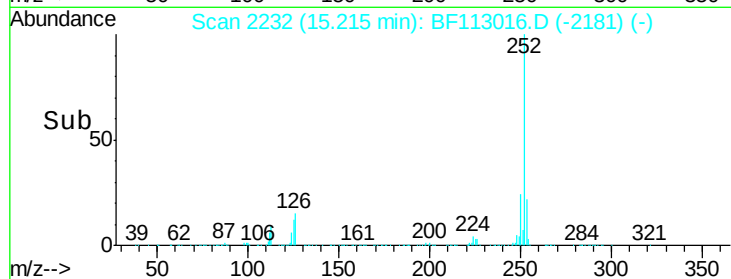
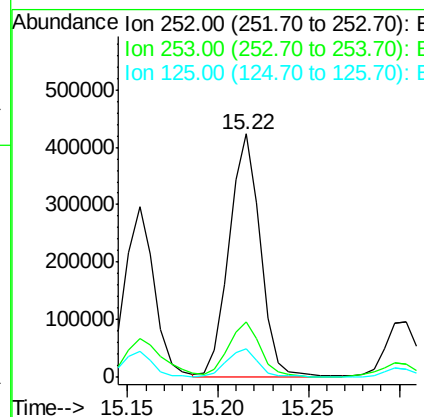
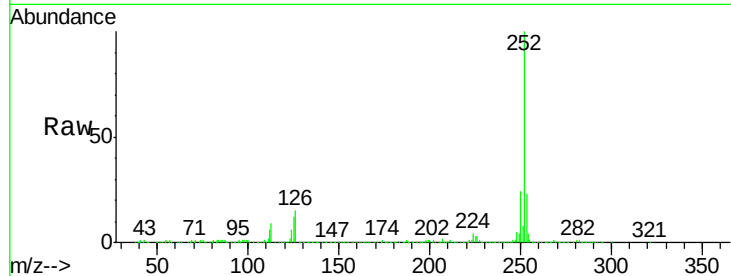
#90
Benzo(a)pyrene
Concen: 19.302 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.00 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Instrument :
BNA_F
ClientSampleId :
SUP-7B-C-2-031119

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	11.7	10.7	16.1

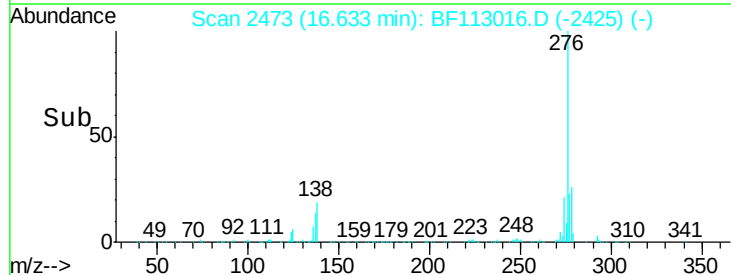
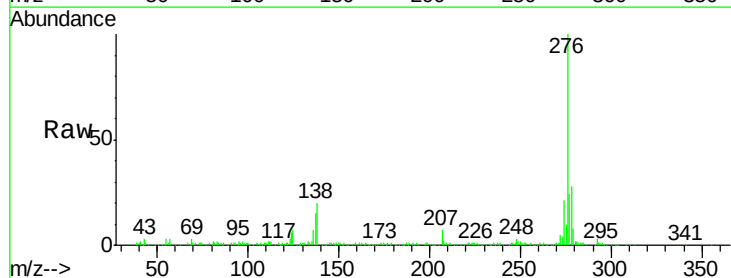
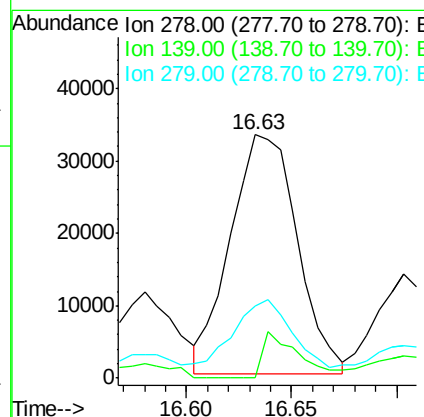
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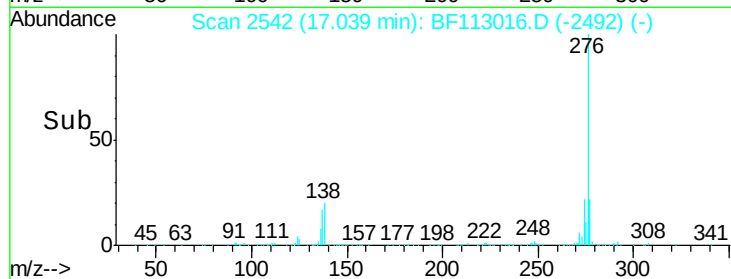
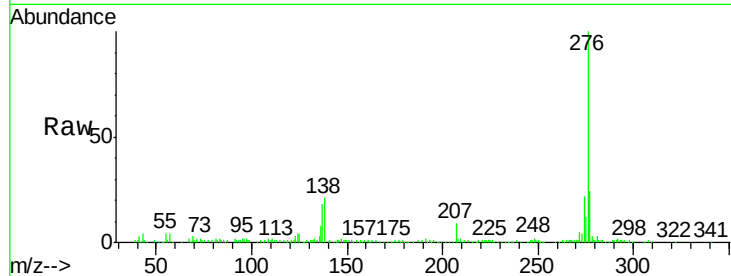
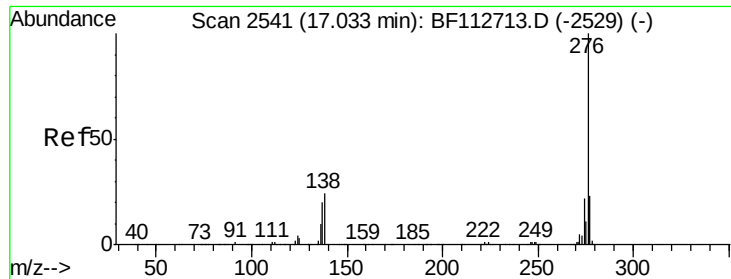
Sohil
3/13/2019 11:40:40 AM



#91
Dibenzo(a,h)anthracene
Concen: 3.283 ng m
RT: 16.63 min Scan# 2473
Delta R.T. -0.02 min
Lab File: BF113016.D
Acq: 12 Mar 2019 21:30

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.3	21.5#
279	29.6	19.4	29.0#





#92

Benzo(a,h,i)perylene

Concen: 9.017 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.01 min

Lab File: BF113016.D

Acq: 12 Mar 2019 21:30

Tot Ion:	276	Resp:	200994
Ion Ratio	Lower	Upper	
276	100		
277	23.6	18.6	27.8
138	20.7	19.4	29.0

Instrument :

BNA_F

ClientSampleId :

SUP-7B-C-2-031119

Manual Integrations
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