

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121518\
 Data File : BF111489.D
 Acq On : 16 Dec 2018 2:10
 Operator : JU/SJ
 Sample : J6208-17DL 4X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-5DL

Manual Integrations
 APPROVED

Sohil
 12/17/2018 3:12:30 PM

Quant Time: Dec 16 03:02:21 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 14 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	153196	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	540361	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	205372	20.00	ng	0.00
64) Phenanthrene-d10	11.31	188	366679	20.00	ng	0.00
76) Chrysene-d12	13.96	240	355117	20.00	ng	0.00
87) Perylene-d12	15.39	264	358116	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	241943	26.28	ng	0.00
7) Phenol-d6	6.43	99	292009	23.85	ng	-0.01
23) Nitrobenzene-d5	7.35	82	160974	17.74	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	44767	24.33	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	208850	15.71	ng	0.00
79) Terphenyl-d14	12.90	244	187260	12.38	ng	0.00
Target Compounds						
49) Acenaphthylene	9.69	152	54125	2.757	ng	Qvalue # 92
52) Acenaphthene	9.86	154	43598	3.513	ng	97
55) Dibenzofuran	10.03	168	37595	2.087	ng	# 93
58) Fluorene	10.37	166	74328	5.689	ng	93
71) Phenanthrene	11.34	178	977121	51.715	ng	94
72) Anthracene	11.39	178	286583	14.831	ng	93
73) Carbazole	11.54	167	57149	2.860	ng	96
75) Fluoranthene	12.53	202	1663558	89.999	ng	96
78) Pyrene	12.76	202	1538516	61.450	ng	97
81) Benzo(a)anthracene	13.94	228	801396	41.504	ng	99
83) Chrysene	13.98	228	647810	31.847	ng	97
86) Indeno(1,2,3-cd)pyrene	16.81	276	269756	18.375	ng	92
88) Benzo(b)fluoranthene	14.98	252	807818m	38.691	ng	
89) Benzo(k)fluoranthene	15.00	252	247120m	12.387	ng	
90) Benzo(a)pyrene	15.33	252	534795	28.405	ng	99
91) Dibenzo(a,h)anthracene	16.82	278	69220m	4.661	ng	
92) Benzo(a,h,i)perylene	17.23	276	239277	16.413	ng	95

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

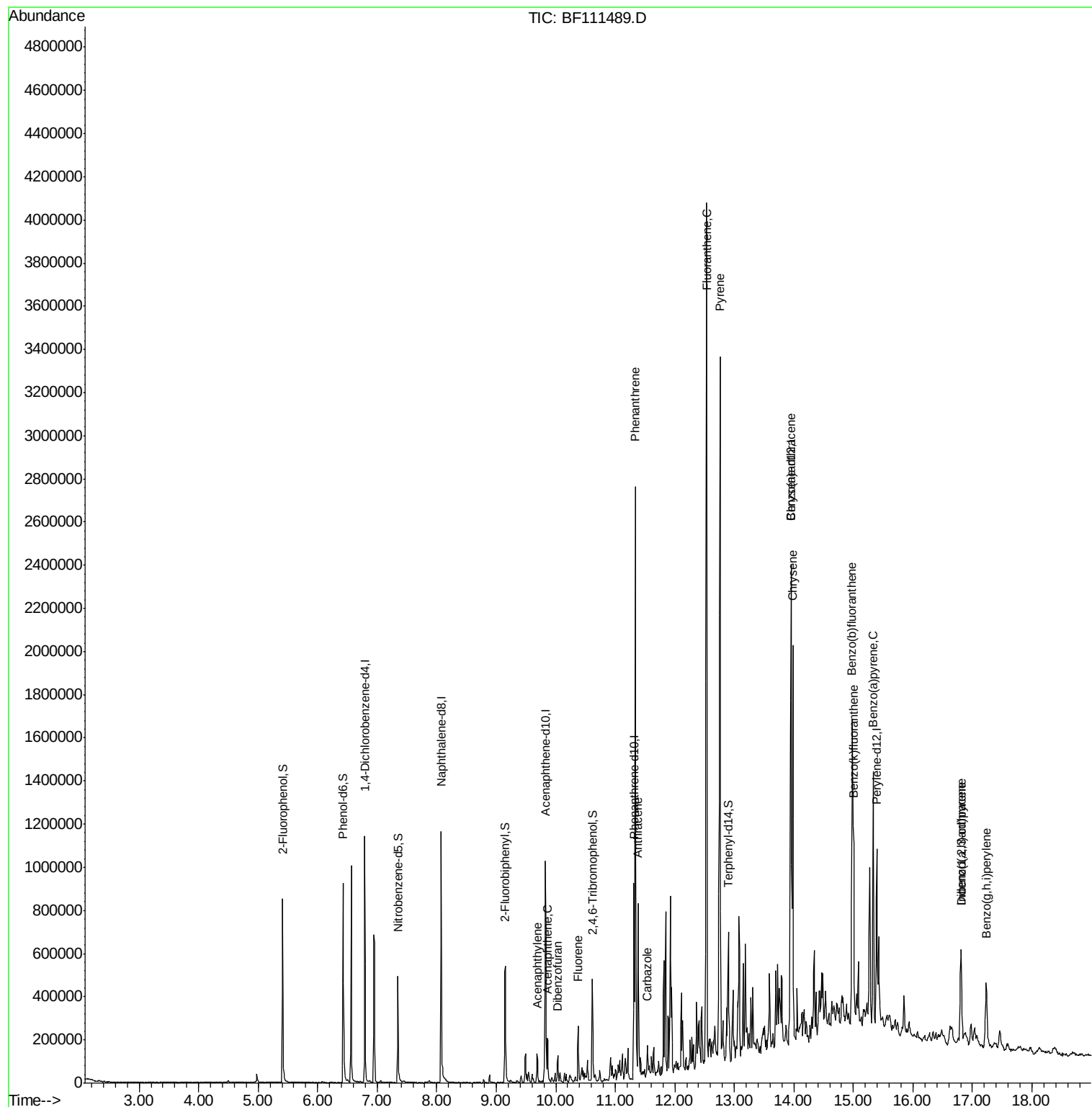
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121518\
Data File : BF111489.D
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ALS Vial : 31 Sample Multiplier: 1

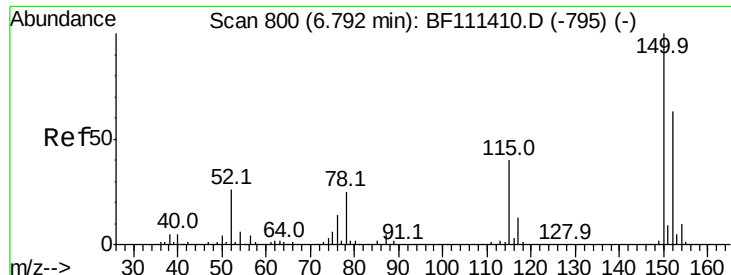
Instrument :
BNA_F
ClientSampleId :
TP-5DL

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Quant Time: Dec 16 03:02:21 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 14 13:26:17 2018
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#1

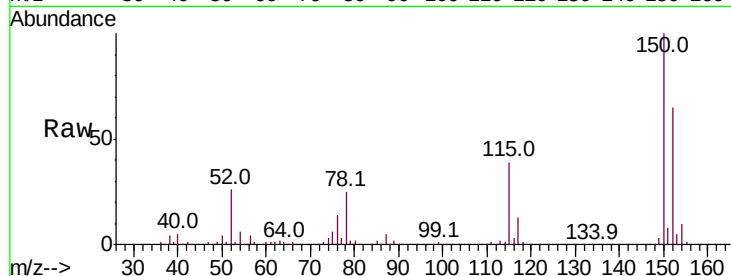
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Instrument :
BNA_F
ClientSampled :
TP-5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.2	126.6	189.8
115	60.4	50.7	76.1

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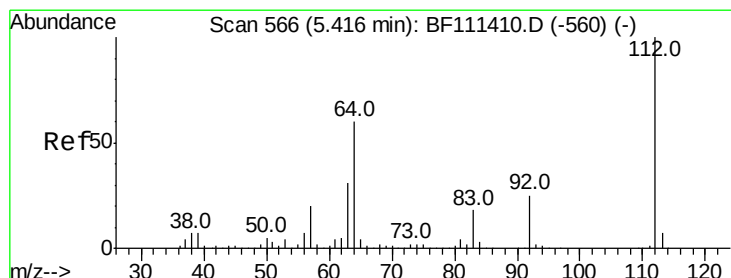
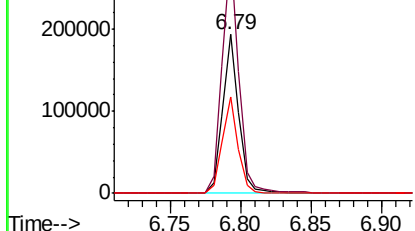
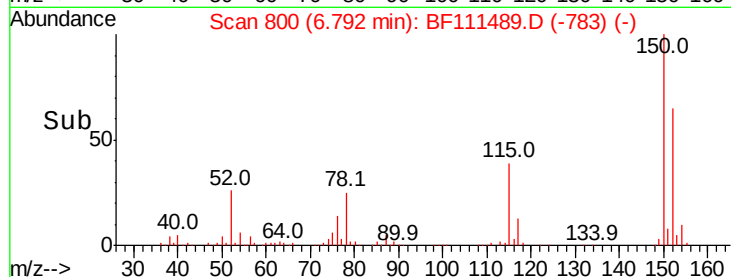


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

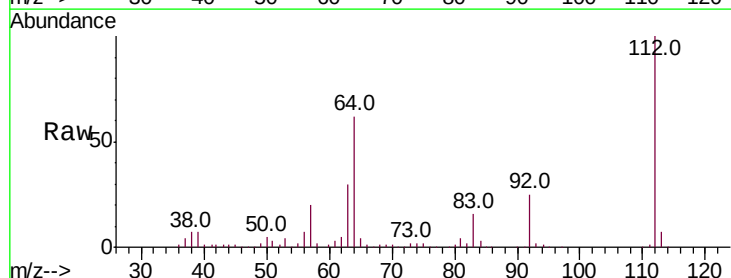
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 26.281 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.00 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.1	51.8	77.6
63	30.3	26.8	40.2

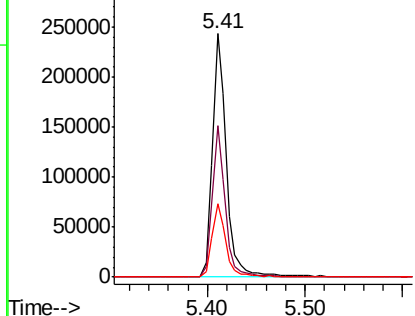
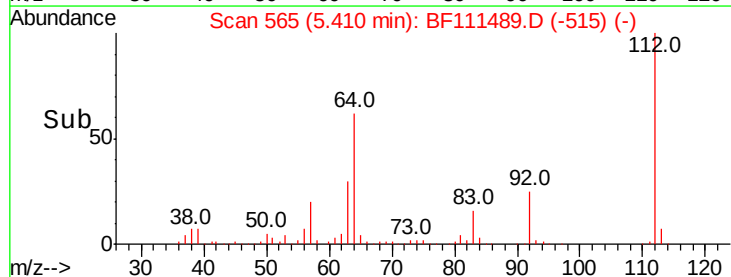


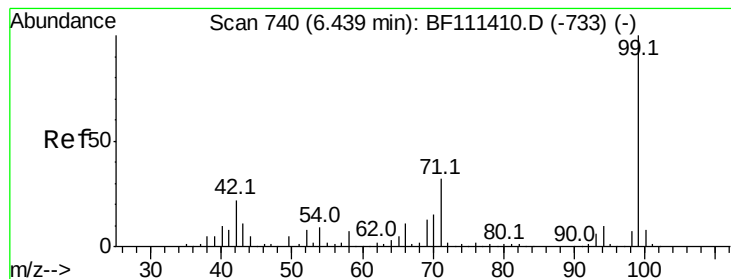
Abundance

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: 23.846 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

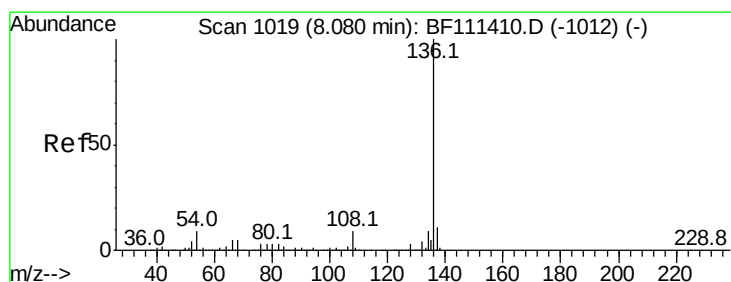
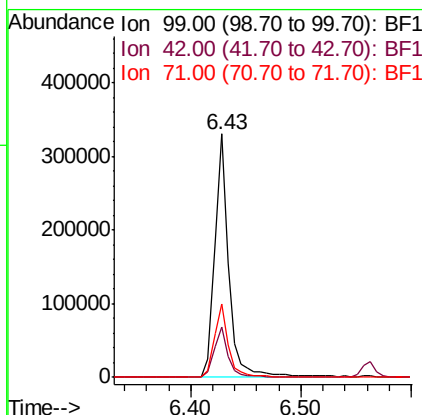
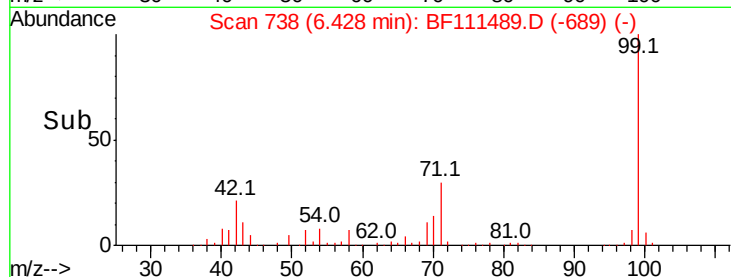
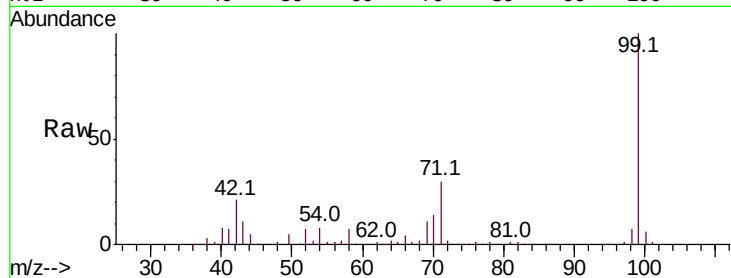
ClientSampled :

TP-5DL

Tot Ion:	99	Resp:	292009
Ion Ratio	Lower	Upper	
99	100		
42	20.7	17.4	26.0
71	30.4	26.1	39.1

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#21

Naphthalene-d8

Concen: 20.000 ng

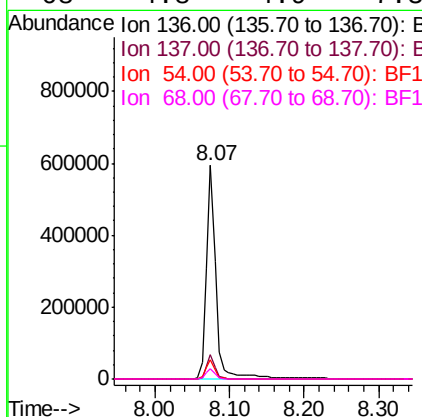
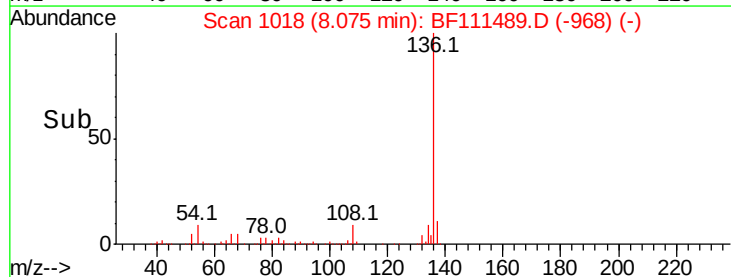
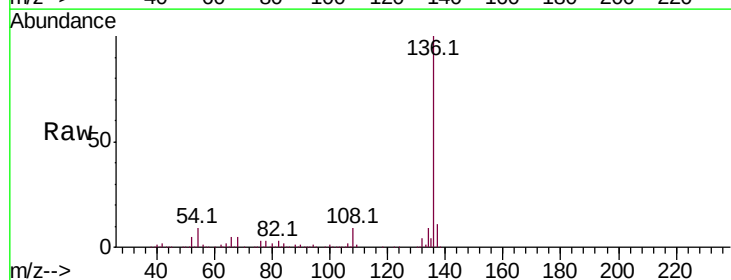
RT: 8.07 min Scan# 1018

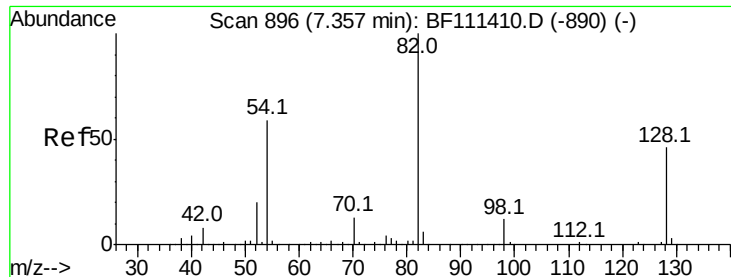
Delta R.T. -0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Tgt Ion:	136	Resp:	540361
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	8.8	7.7	11.5
68	4.8	4.9	7.3#





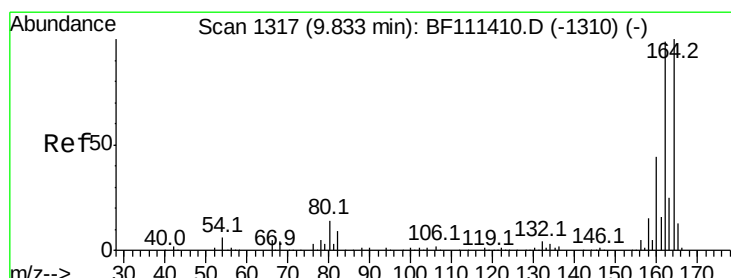
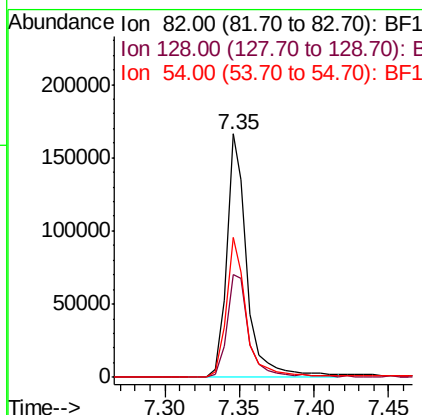
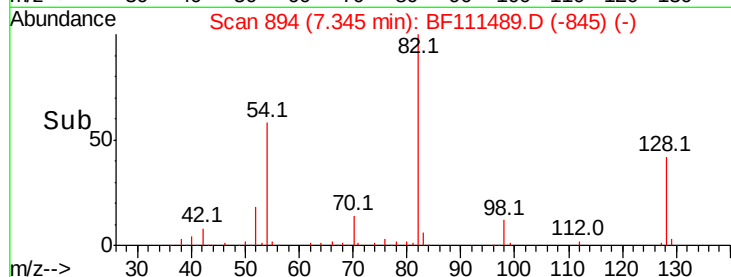
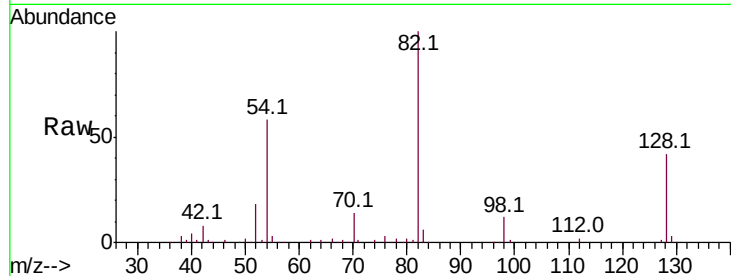
#23
Nitrobenzene-d5
Concen: 17.740 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.01 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Instrument :
BNA_F
ClientSampled :
TP-5DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.4	37.4	56.2
54	57.6	47.6	71.4

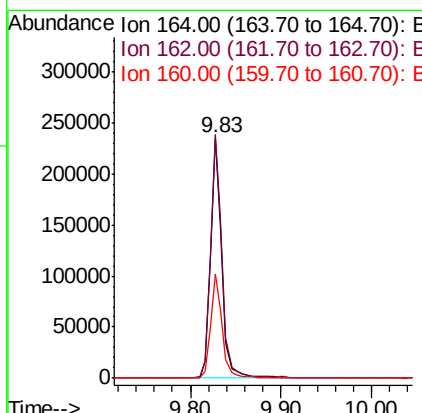
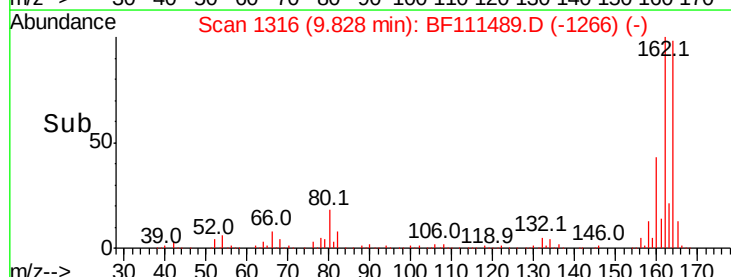
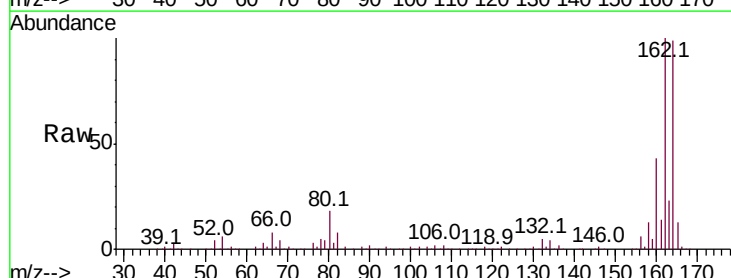
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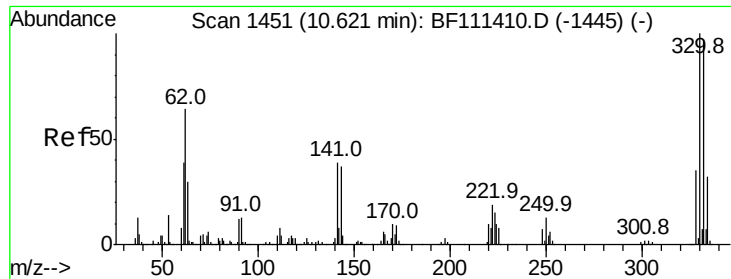
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.4	122.0
160	43.6	35.7	53.5





#42

2,4,6-Tribromophenol

Concen: 24.334 ng

RT: 10.62 min Scan# 1450

Delta R.T. -0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

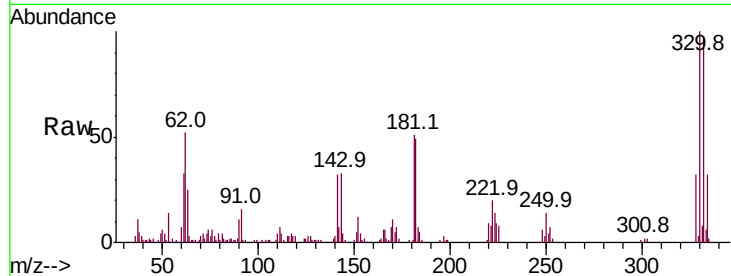
ClientSampled :

TP-5DL

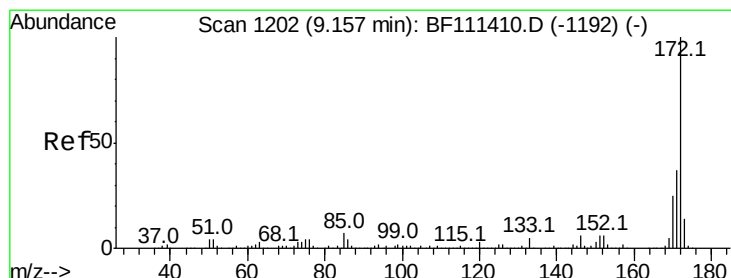
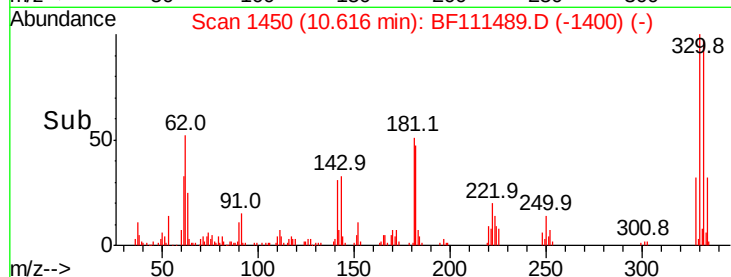
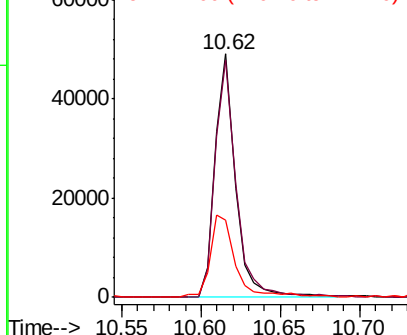
Tot Ion:	330	Resp:	44767
Ion Ratio	Lower	Upper	
330	100		
332	99.9	76.0	114.0
141	41.4	31.0	46.6

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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: 15.708 ng

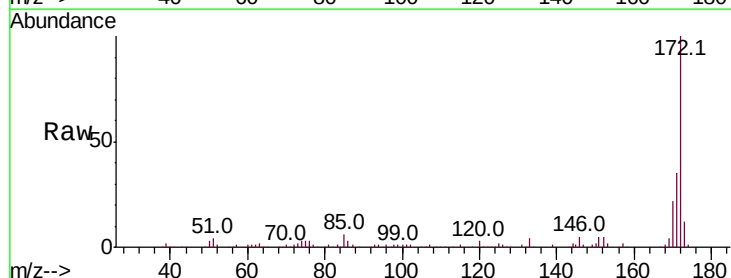
RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

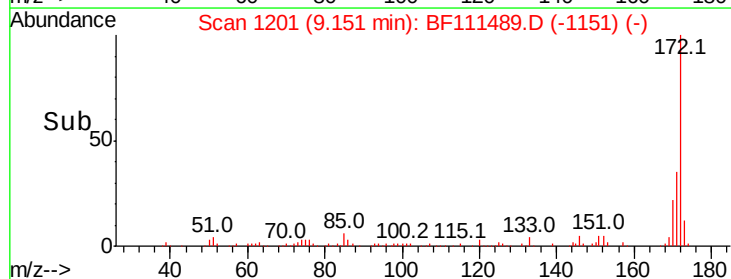
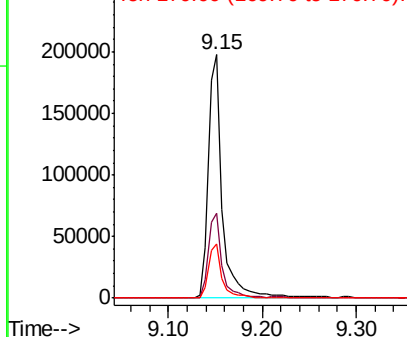
Lab File: BF111489.D

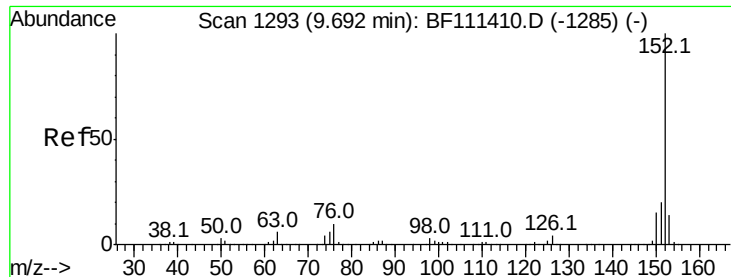
Acq: 16 Dec 2018 2:10

Tgt Ion:	172	Resp:	208850
Ion Ratio	Lower	Upper	
172	100		
171	34.8	33.0	49.4
170	22.5	22.3	33.5



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: 2.757 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

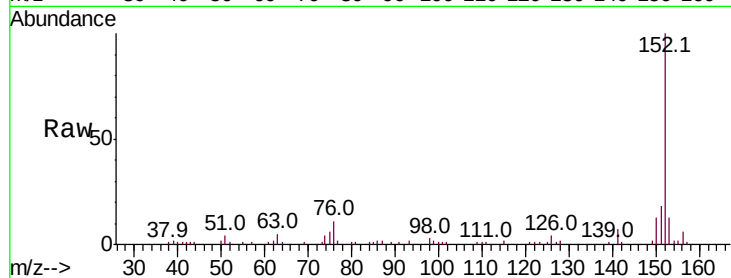
ClientSampled :

TP-5DL

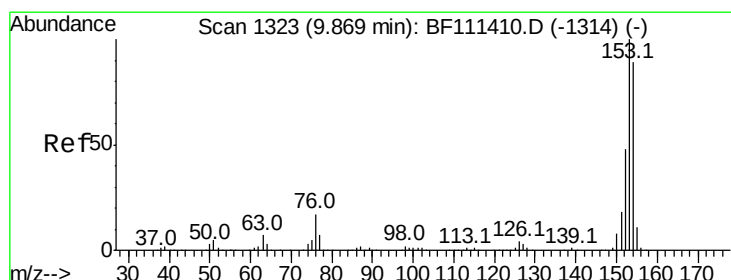
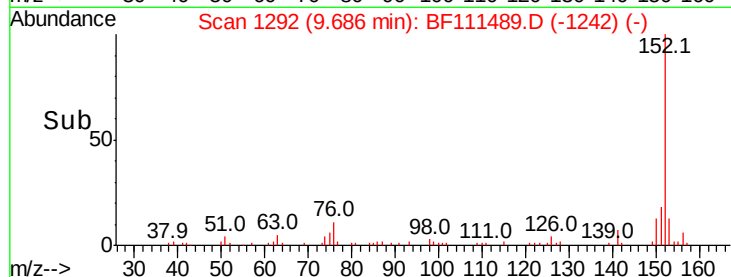
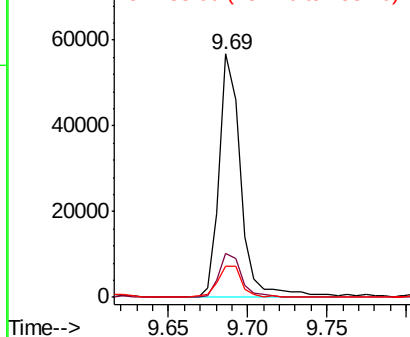
Tot Ion:	152	Resp:	54125
Ion Ratio	Lower	Upper	
152	100		
151	18.0	18.0	27.0#
153	12.8	12.3	18.5

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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



#52

Acenaphthene

Concen: 3.513 ng

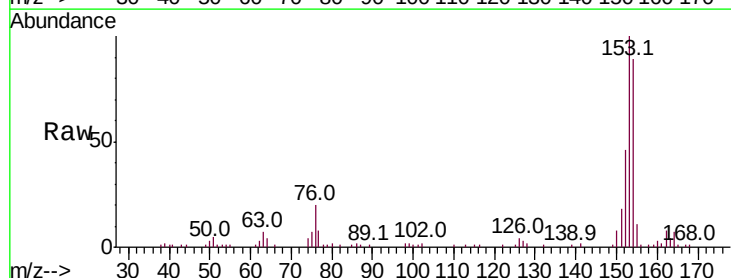
RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

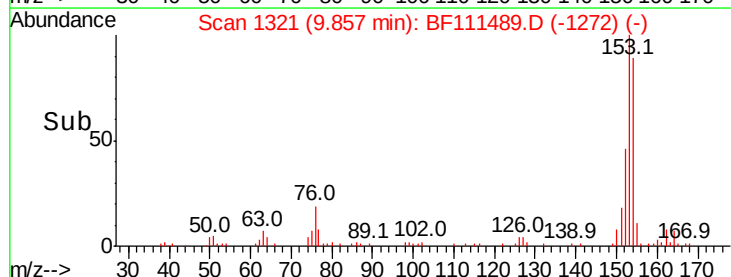
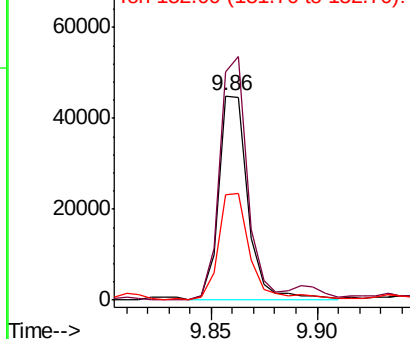
Lab File: BF111489.D

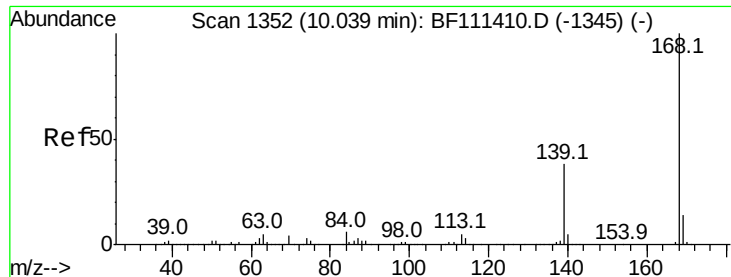
Acq: 16 Dec 2018 2:10

Tgt Ion:	154	Resp:	43598
Ion Ratio	Lower	Upper	
154	100		
153	111.8	87.8	131.8
152	51.4	43.4	65.2



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

Dibenzenofuran

Concen: 2.087 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

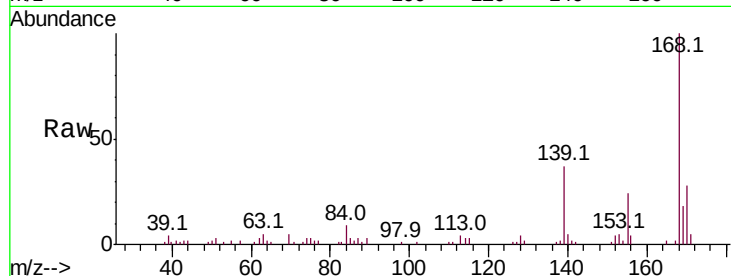
ClientSampled :

TP-5DL

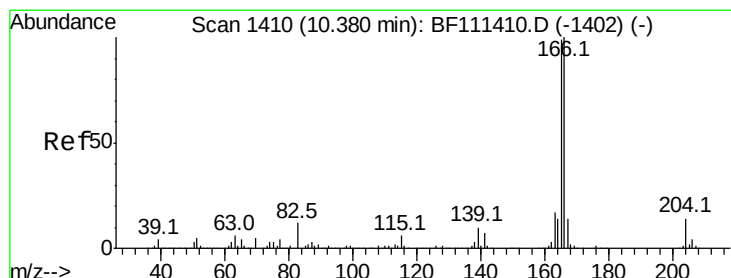
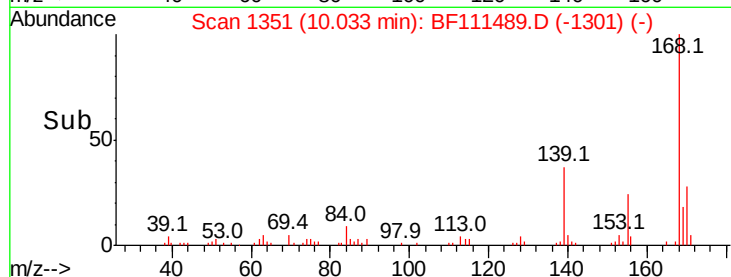
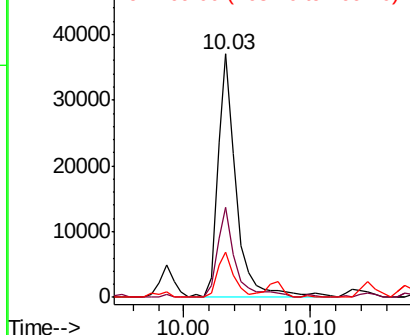
Tot Ion	Ratio	Lower	Upper
168	100		
139	37.0	32.6	49.0
169	18.5	11.8	17.6

Manual Integrations
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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: 5.689 ng

RT: 10.37 min Scan# 1409

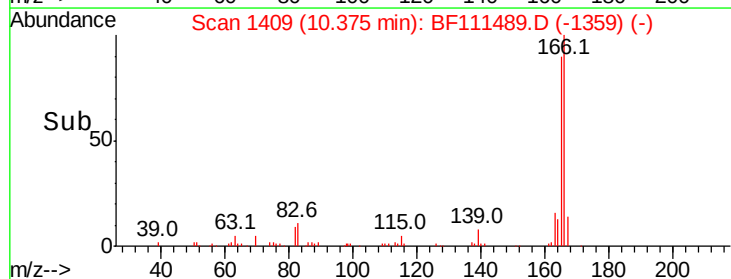
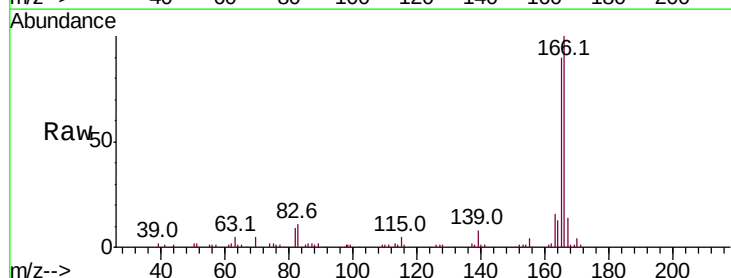
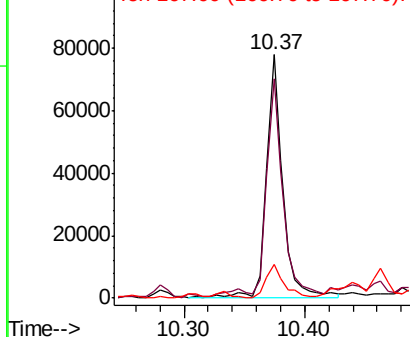
Delta R.T. -0.01 min

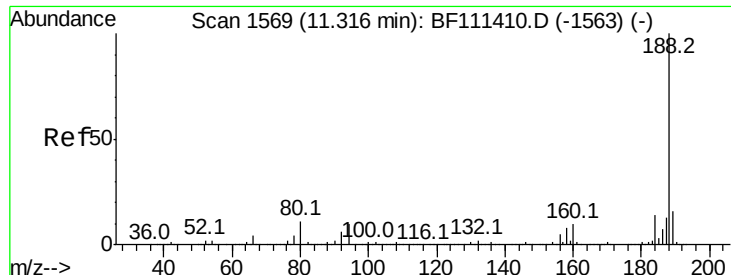
Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.3	78.4	117.6
167	13.9	11.2	16.8

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





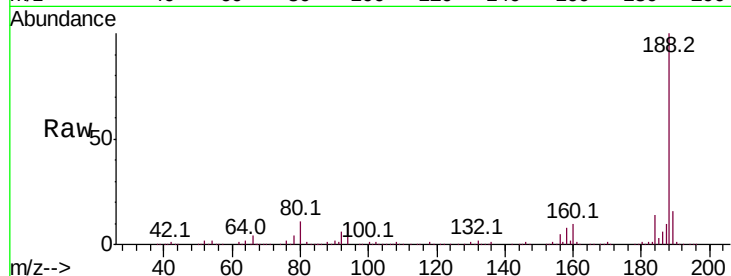
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Instrument :
BNA_F
ClientSampled :
TP-5DL

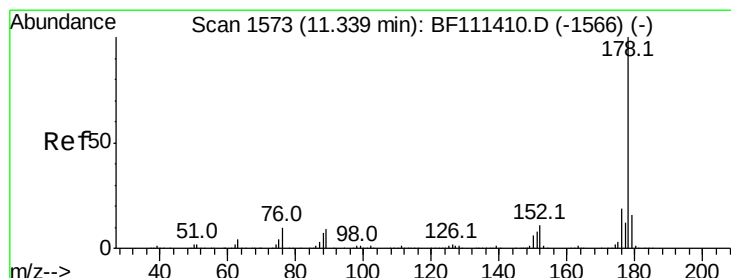
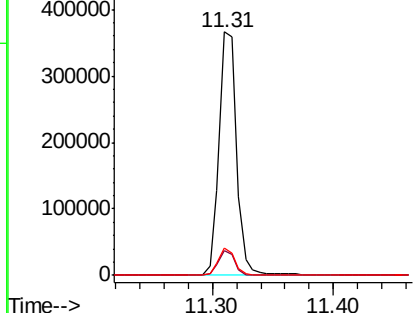
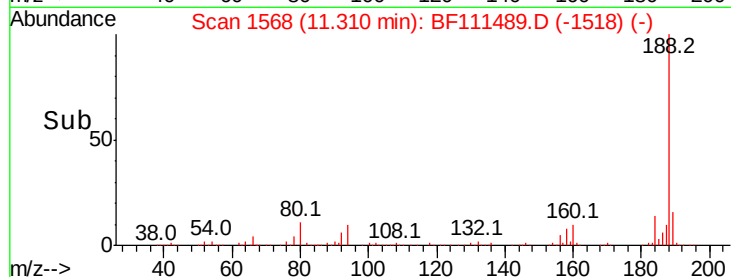
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.2	9.6	14.4
80	11.4	9.8	14.6

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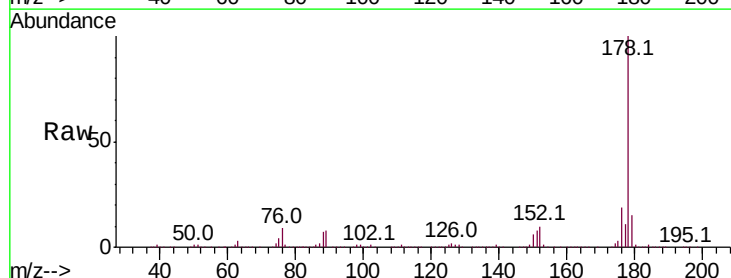


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

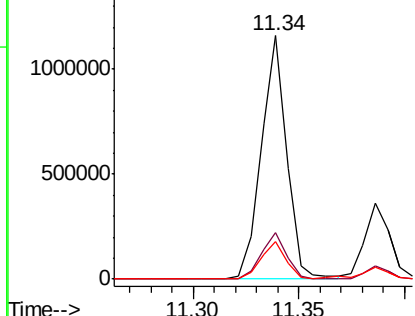
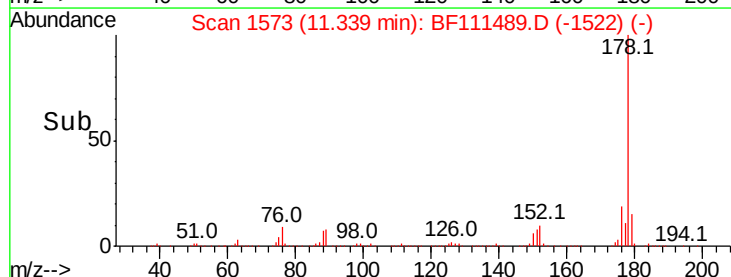


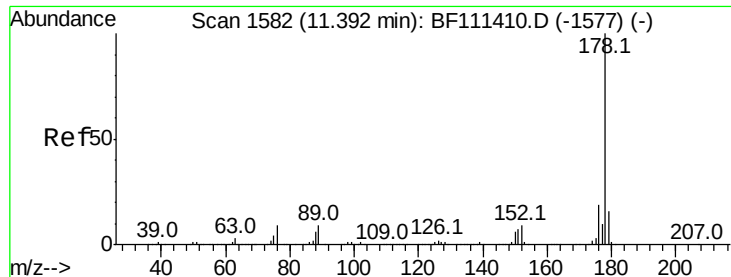
#71
Phenanthrene
Concen: 51.715 ng
RT: 11.34 min Scan# 1573
Delta R.T. 0.00 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.9	18.1	27.1
179	15.4	14.0	21.0



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





#72

Anthracene

Concen: 14.831 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

ClientSampled :

TP-5DL

Tot Ion:178 Resp: 286583

Ion Ratio Lower Upper

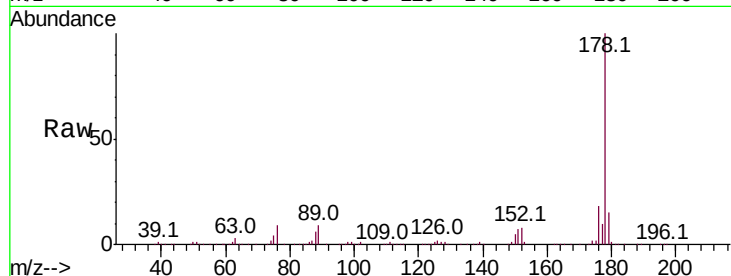
178 100

176 17.8 17.2 25.8

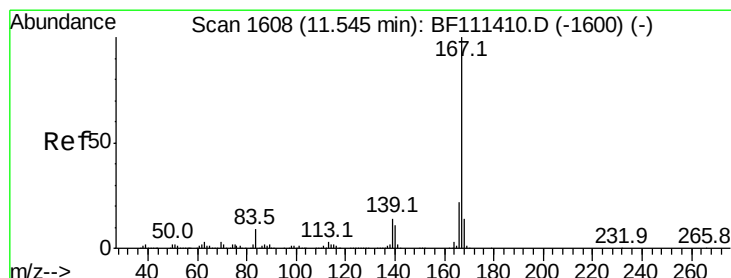
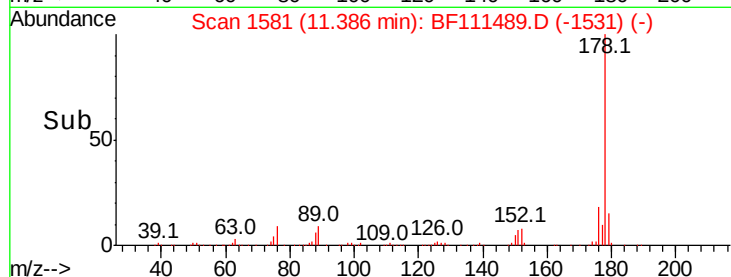
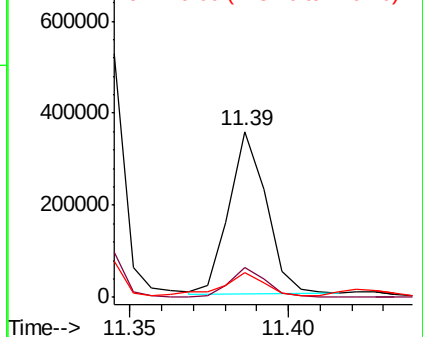
179 15.0 13.8 20.8

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



#73

Carbazole

Concen: 2.860 ng

RT: 11.54 min Scan# 1607

Delta R.T. -0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

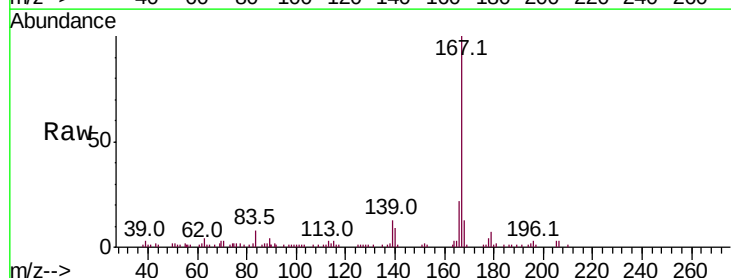
Tgt Ion:167 Resp: 57149

Ion Ratio Lower Upper

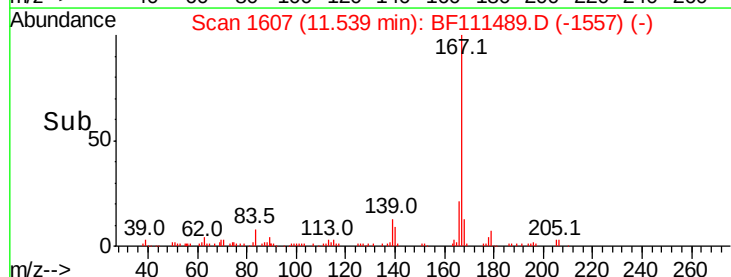
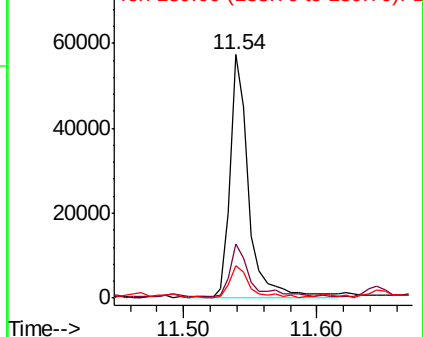
167 100

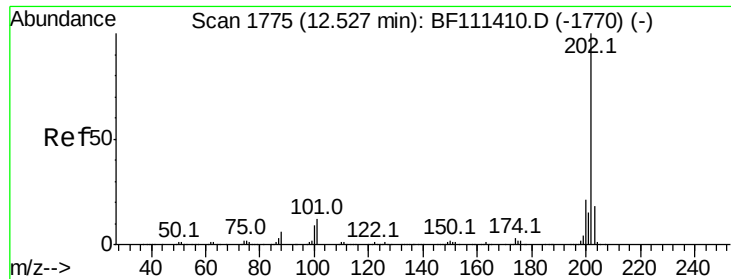
166 22.0 19.3 28.9

139 13.1 11.9 17.9



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 89.999 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

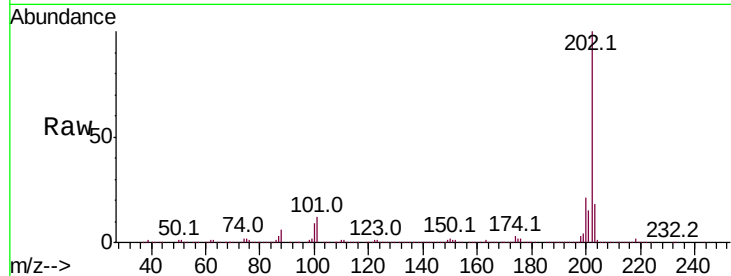
ClientSampleId :

TP-5DL

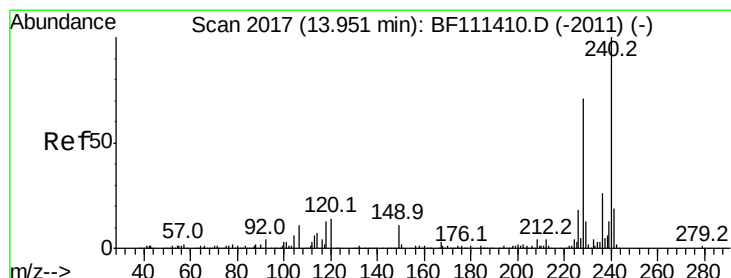
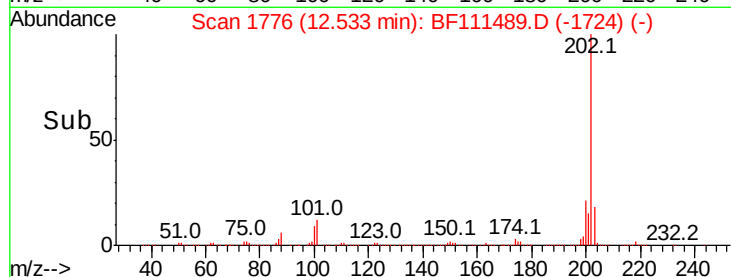
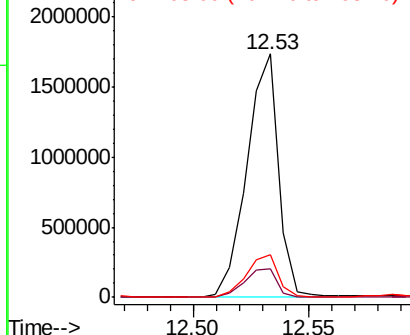
Tot Ion:	202	Resp:	1663558
Ion Ratio	Lower	Upper	
202	100		
101	11.5	0.0	33.8
203	17.5	0.0	38.6

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

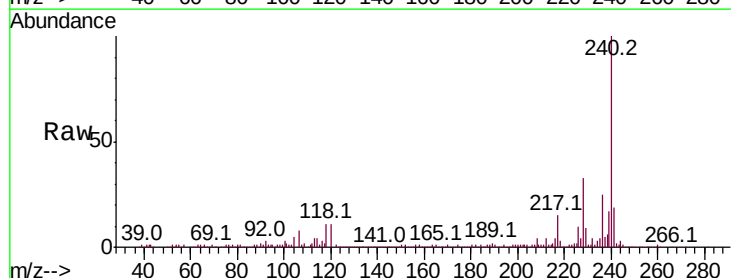
RT: 13.96 min Scan# 2018

Delta R.T. 0.01 min

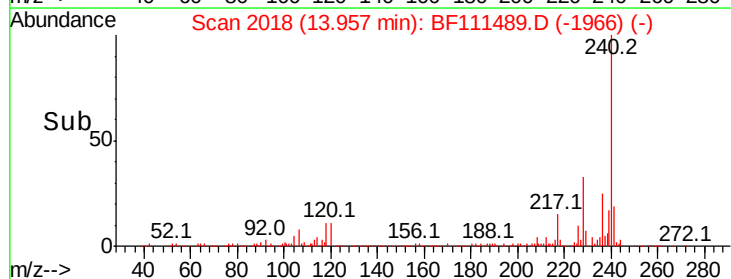
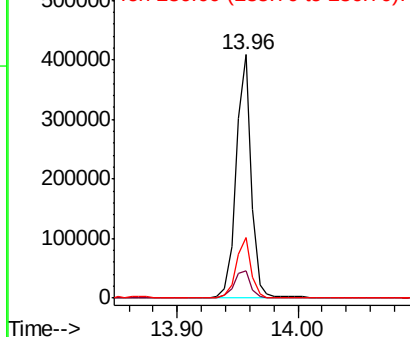
Lab File: BF111489.D

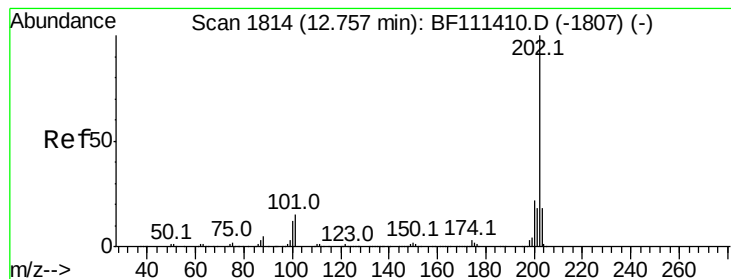
Acq: 16 Dec 2018 2:10

Tgt Ion:	240	Resp:	355117
Ion Ratio	Lower	Upper	
240	100		
120	11.3	12.2	18.2#
236	25.1	20.2	30.2



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 61.450 ng

RT: 12.76 min Scan# 1815

Delta R.T. 0.01 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

ClientSampled :

TP-5DL

Tot Ion:202 Resp: 1538516

Ion Ratio Lower Upper

202 100

200 21.6 19.0 28.4

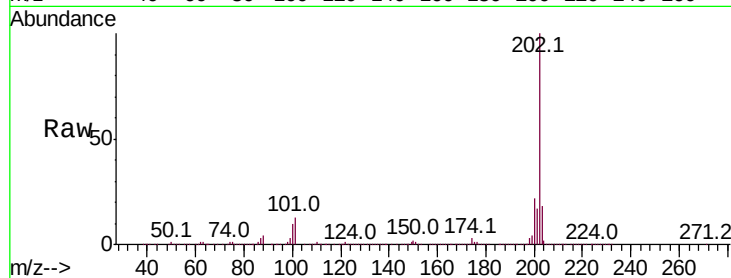
203 18.0 15.2 22.8

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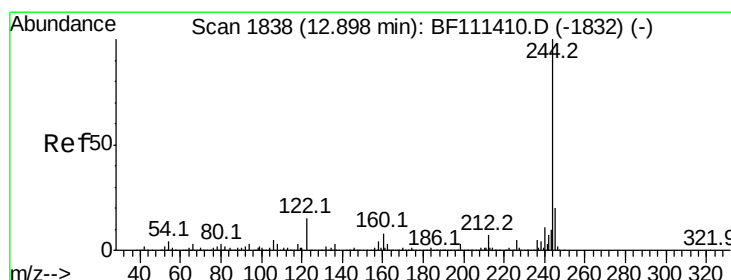
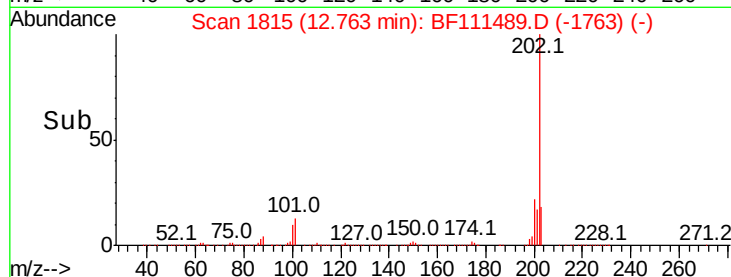
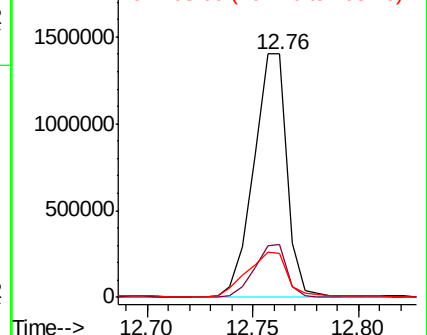
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 12.383 ng

RT: 12.90 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

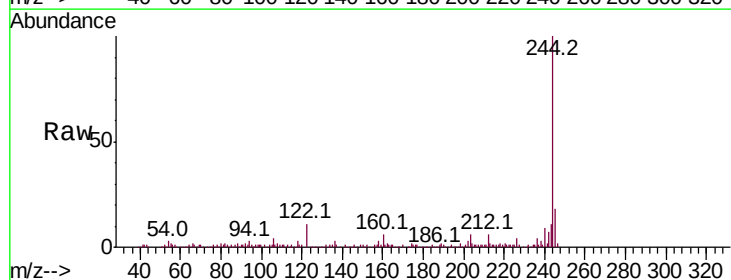
Tgt Ion:244 Resp: 187260

Ion Ratio Lower Upper

244 100

212 6.2 5.7 8.5

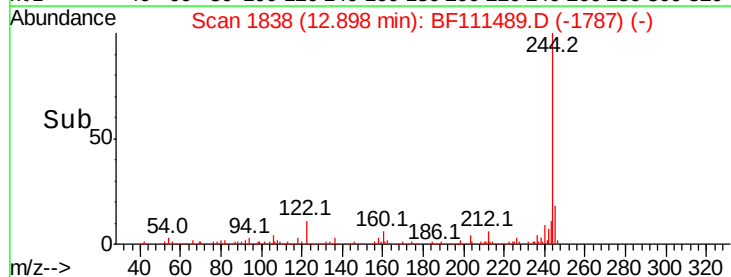
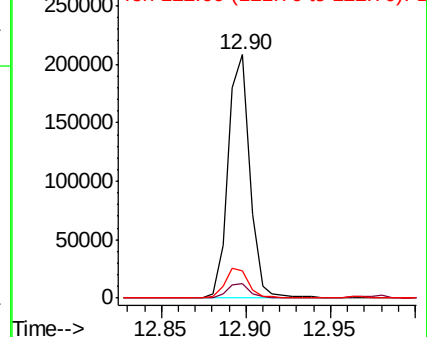
122 11.3 13.1 19.7#

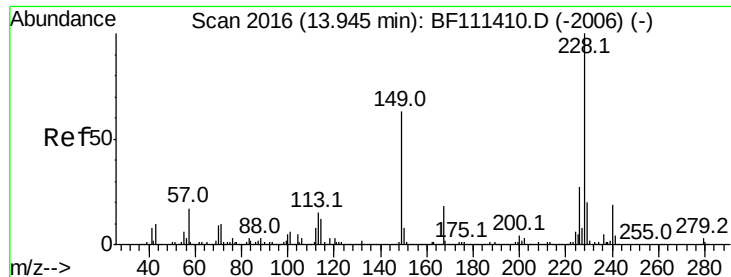


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 41.504 ng

RT: 13.94 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Instrument :

BNA_F

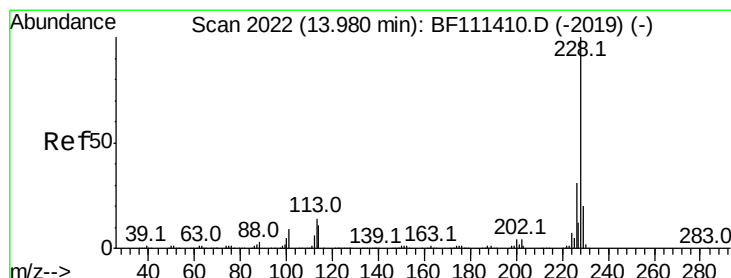
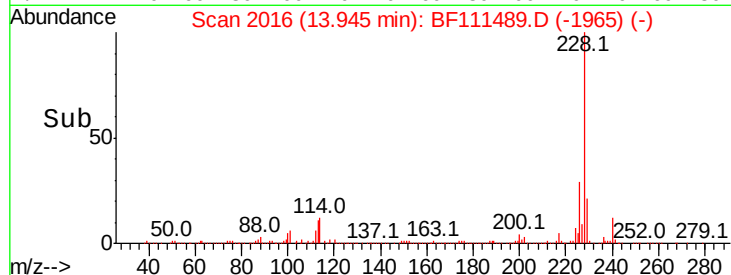
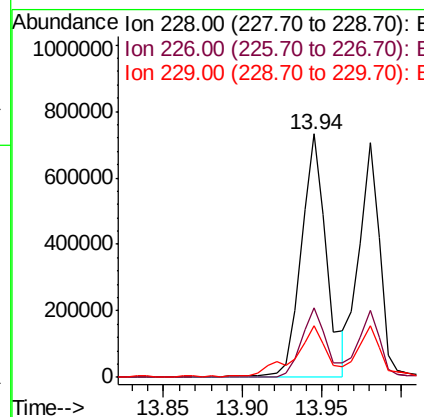
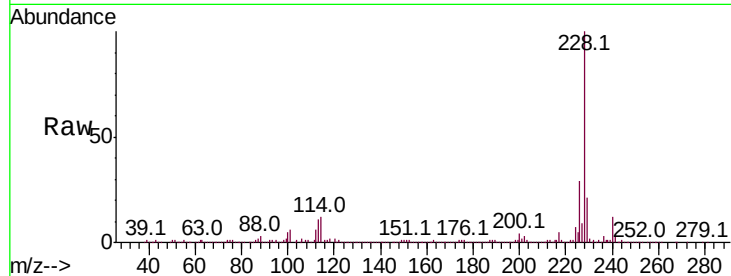
ClientSampled :

TP-5DL

Tot Ion:	228	Resp:	801396
Ion Ratio	Lower	Upper	
228	100		
226	28.7	22.6	34.0
229	21.2	16.3	24.5

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#83

Chrysene

Concen: 31.847 ng

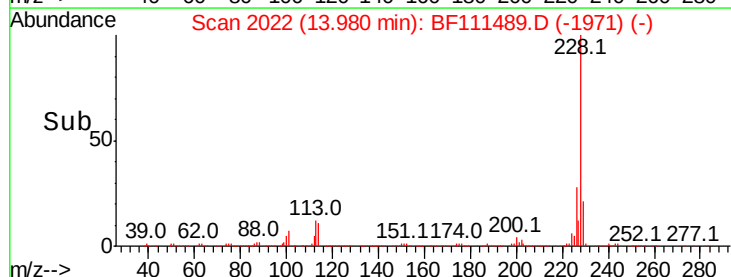
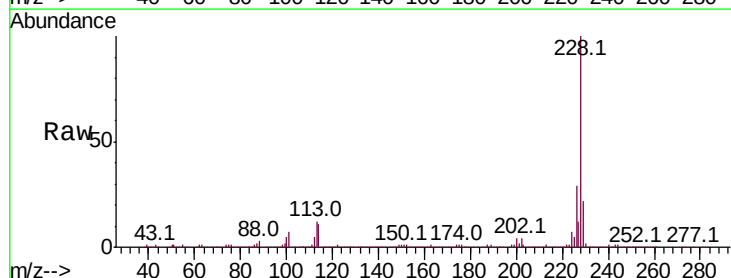
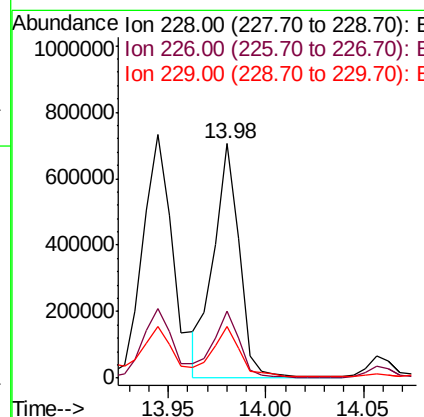
RT: 13.98 min Scan# 2022

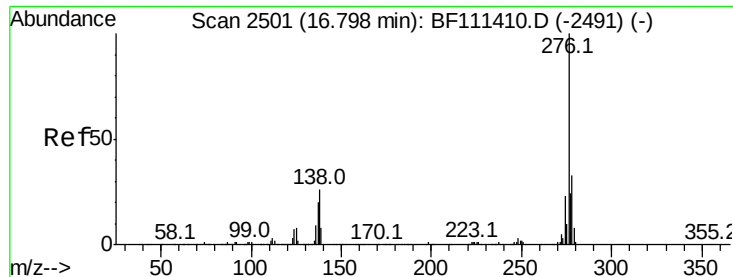
Delta R.T. 0.00 min

Lab File: BF111489.D

Acq: 16 Dec 2018 2:10

Tgt Ion:	228	Resp:	647810
Ion Ratio	Lower	Upper	
228	100		
226	28.6	25.3	37.9
229	21.8	17.2	25.8





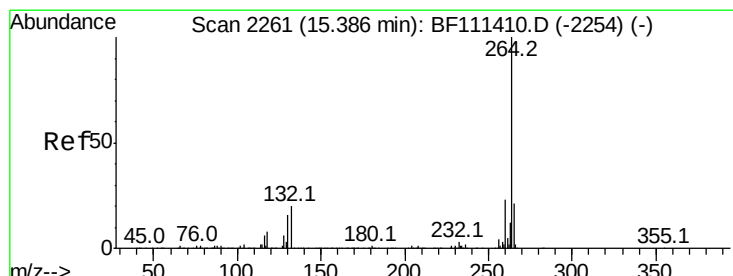
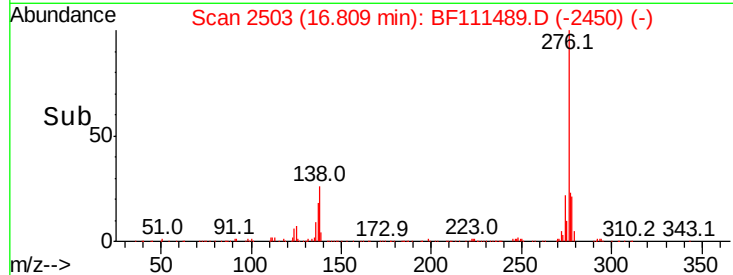
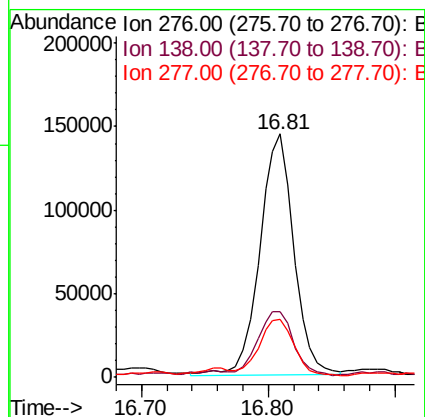
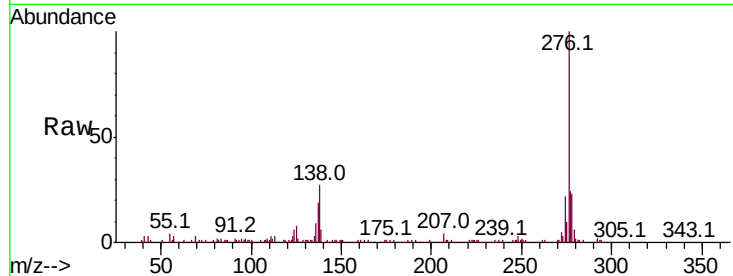
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 18.375 ng
 RT: 16.81 min Scan# 2503
 Delta R.T. 0.01 min
 Lab File: BF111489.D
 Acq: 16 Dec 2018 2:10

Instrument :
 BNA_F
 ClientSampled :
 TP-5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.8	27.8	41.6
277	23.5	20.1	30.1

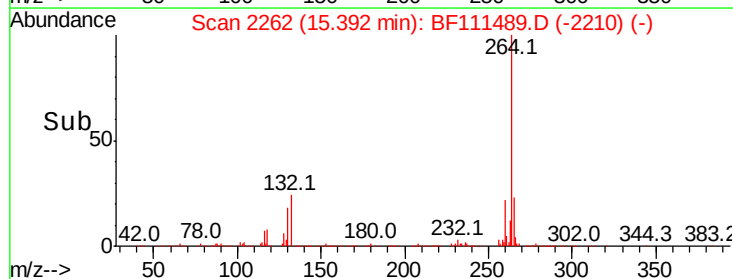
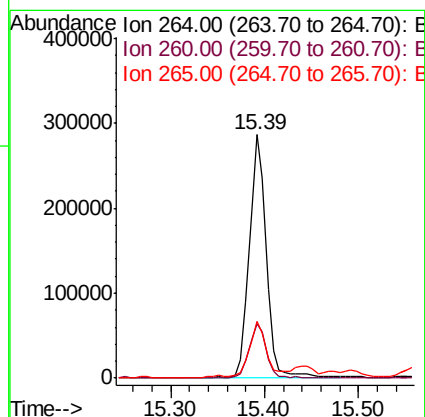
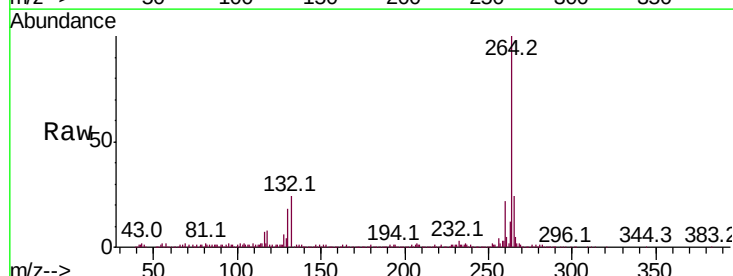
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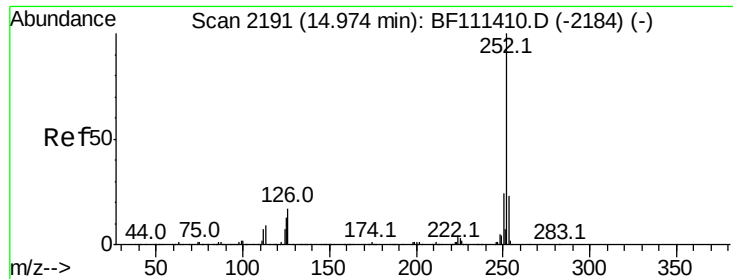
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.39 min Scan# 2262
 Delta R.T. 0.01 min
 Lab File: BF111489.D
 Acq: 16 Dec 2018 2:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.4	18.3	27.5
265	23.5	17.7	26.5





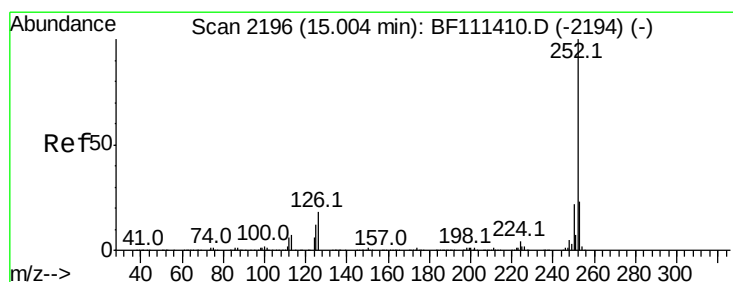
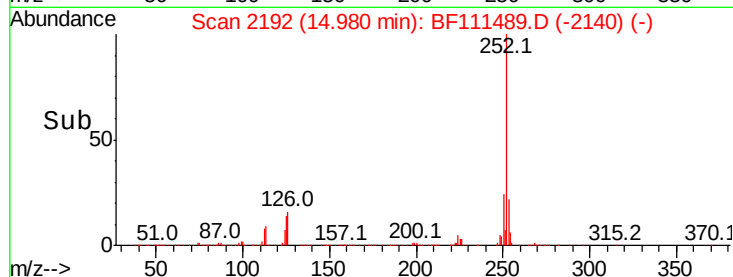
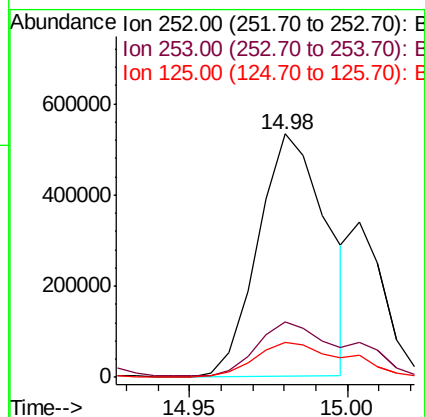
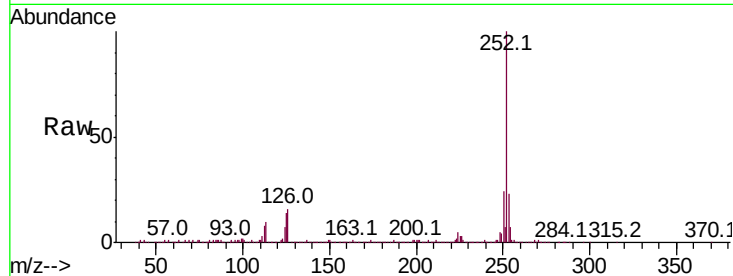
#88
Benzo(b)fluoranthene
Concen: 38.691 ng m
RT: 14.98 min Scan# 2192
Delta R.T. 0.01 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Instrument :
BNA_F
ClientSampled :
TP-5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	14.1	10.4	15.6

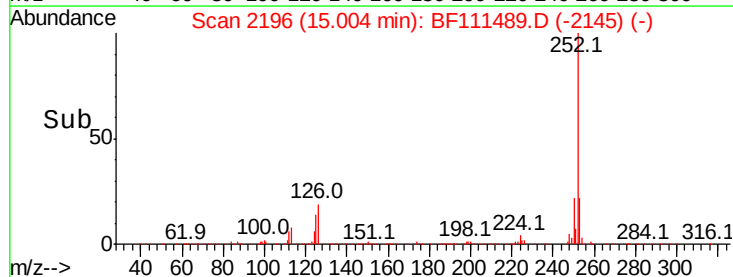
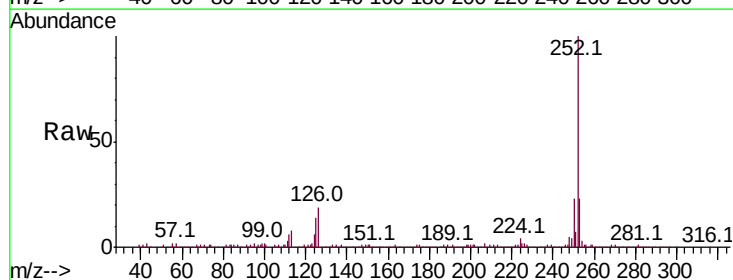
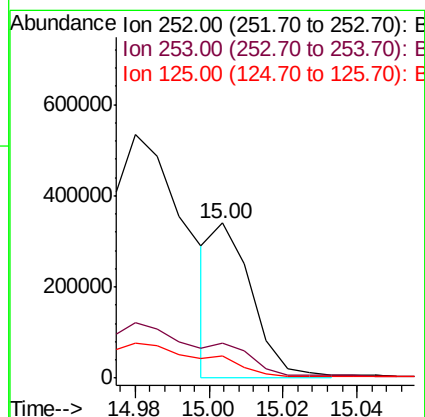
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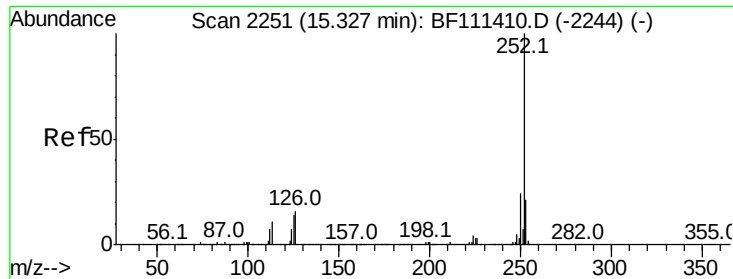
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#89
Benzo(k)fluoranthene
Concen: 12.387 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.00 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	14.2	9.8	14.8





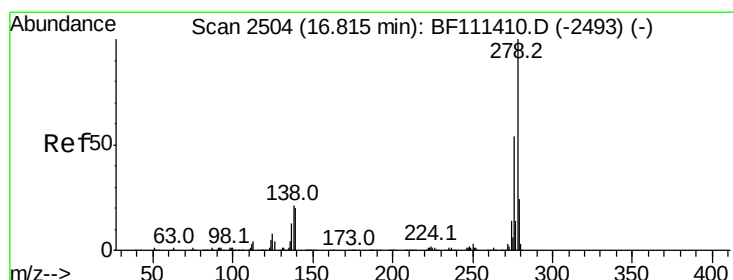
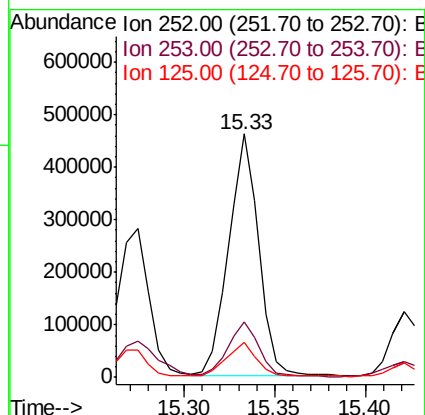
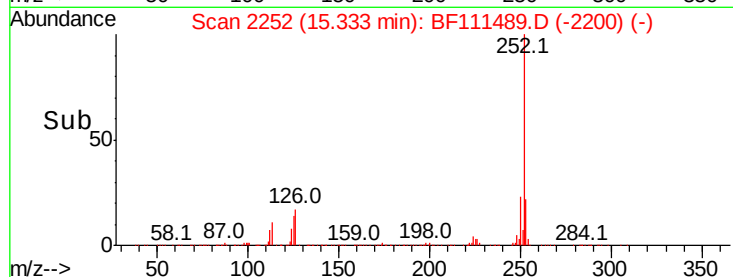
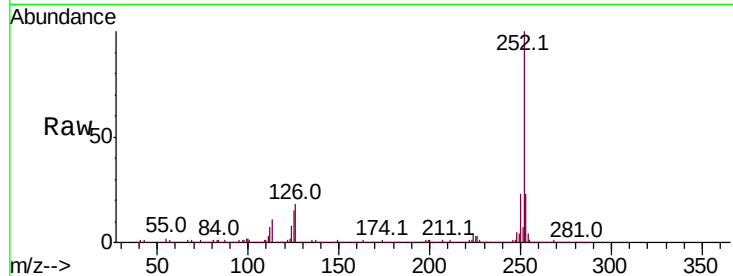
#90
Benzo(a)pyrene
Concen: 28.405 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Instrument :
BNA_F
ClientSampled :
TP-5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	14.6	12.3	18.5

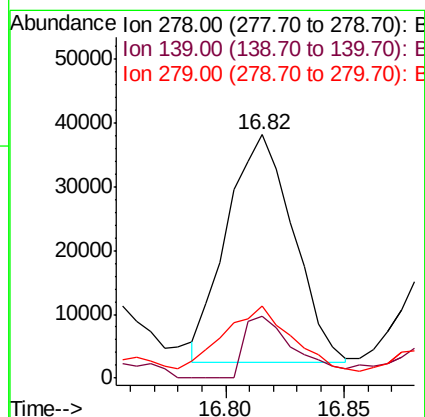
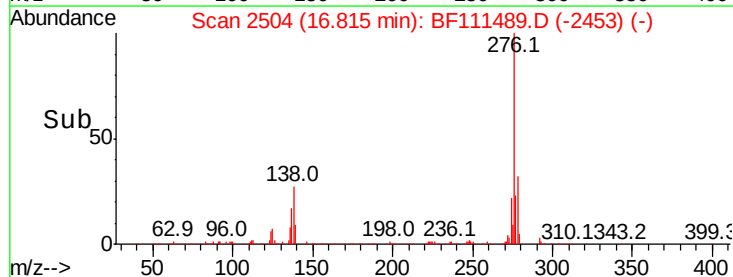
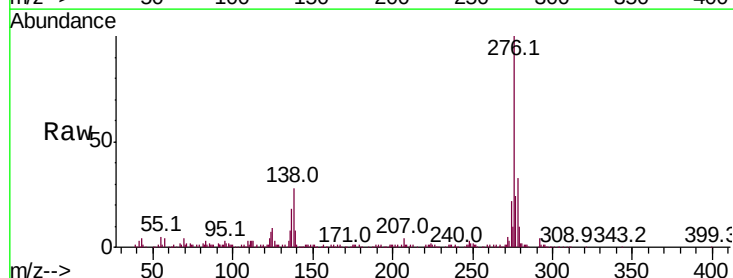
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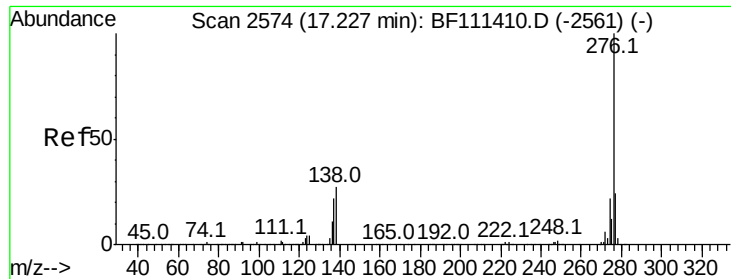
Sohil
12/17/2018 3:12:30 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.661 ng m
RT: 16.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: BF111489.D
Acq: 16 Dec 2018 2:10

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.2	18.2	27.4
279	29.4	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 16.413 ng
 RT: 17.23 min Scan# 2575
 Delta R.T. 0.01 min
 Lab File: BF111489.D
 Acq: 16 Dec 2018 2:10

Instrument :
 BNA_F
 ClientSampleId :
 TP-5DL

Tot Ion:	276	Resp:	239277
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.2	28.8
138	26.6	24.9	37.3

Manual Integrations
 APPROVED

Sohil
 12/17/2018 3:12:30 PM

