

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101514.D
 Acq On : 19 Dec 2017 9:09
 Operator : SJ/JU
 Sample : I6877-04DL 4X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)DL

Manual Integrations
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Quant Time: Dec 19 10:32:43 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 18 15:38:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	135609	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	491360	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	176619	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	284135	20.00	ng	0.00
75) Chrysene-d12	13.99	240	284074	20.00	ng	0.00
86) Perylene-d12	15.47	264	295788	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	258807	28.43	ng	0.01
7) Phenol-d6	6.45	99	312437	27.58	ng	0.00
23) Nitrobenzene-d5	7.37	82	165638	18.76	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	40673	23.90	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	255105	22.41	ng	0.00
78) Terphenyl-d14	12.92	244	184040	15.62	ng	0.00
Target Compounds						
31) Naphthalene	8.12	128	59819	2.418	ng	99
51) Acenaphthene	9.88	154	57448	5.051	ng	95
54) Dibenzofuran	10.06	168	38117	2.637	ng	97
57) Fluorene	10.40	166	46776	3.826	ng	99
70) Phenanthrene	11.36	178	581103	36.776	ng	99
71) Anthracene	11.42	178	199044	12.332	ng	99
72) Carbazole	11.58	167	108354	7.170	ng	98
74) Fluoranthene	12.56	202	922084	55.596	ng	96
77) Pyrene	12.79	202	949827	44.552	ng	100
80) Benzo(a)anthracene	13.98	228	768113	40.949	ng	98
82) Chrysene	14.02	228	662142	37.386	ng	97
85) Indeno(1,2,3-cd)pyrene	16.96	276	588874	37.338	ng	# 90
87) Benzo(b)fluoranthene	15.04	252	1072410m	59.483	ng	
88) Benzo(k)fluoranthene	15.06	252	380233m	21.692	ng	
89) Benzo(a)pyrene	15.41	252	943688	56.780	ng	96
90) Dibenzo(a,h)anthracene	16.95	278	149678m	10.489	ng	
91) Benzo(g,h,i)perylene	17.41	276	550212	38.939	ng	94

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

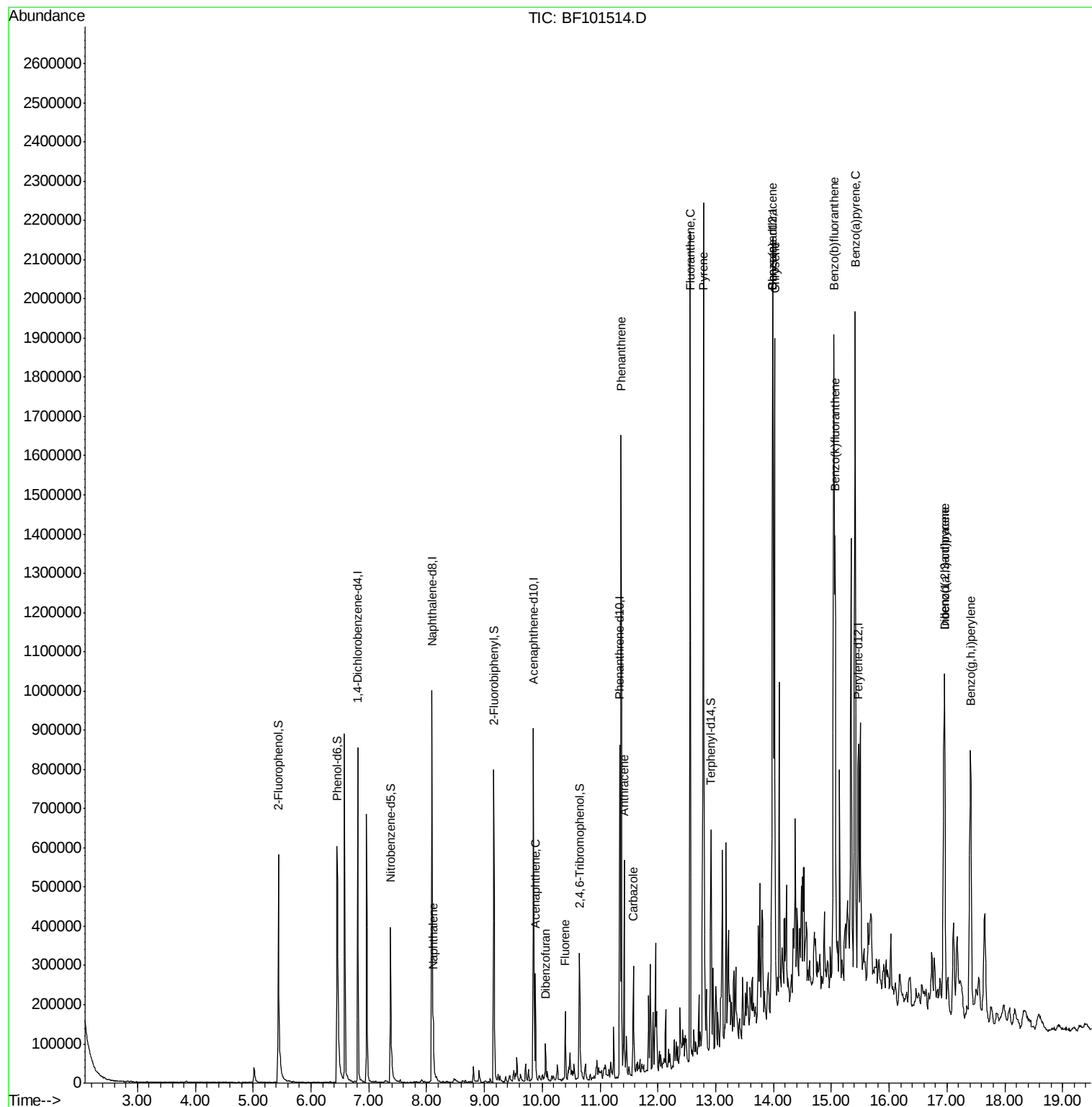
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ALS Vial : 41 Sample Multiplier: 1

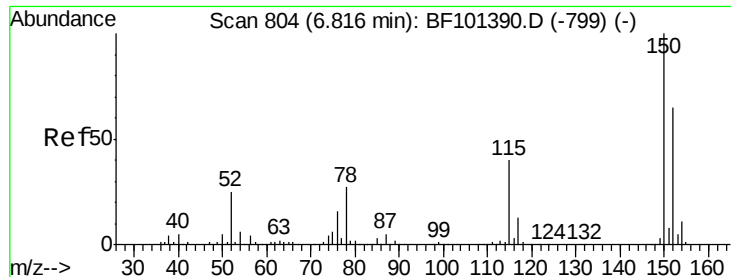
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#1

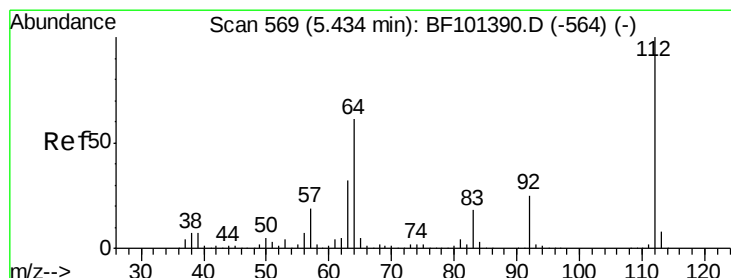
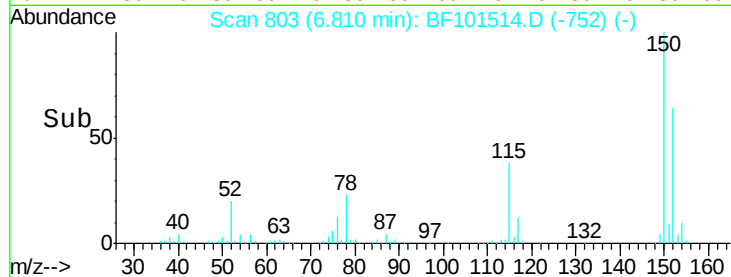
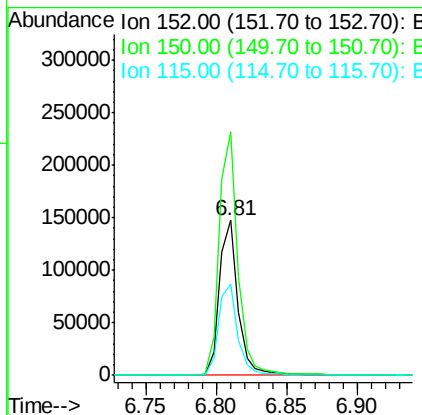
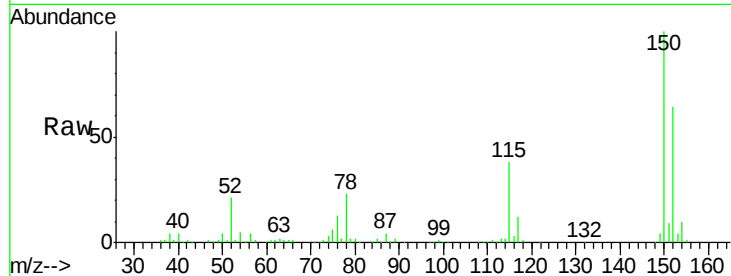
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.6	186.8
115	59.3	50.1	75.1

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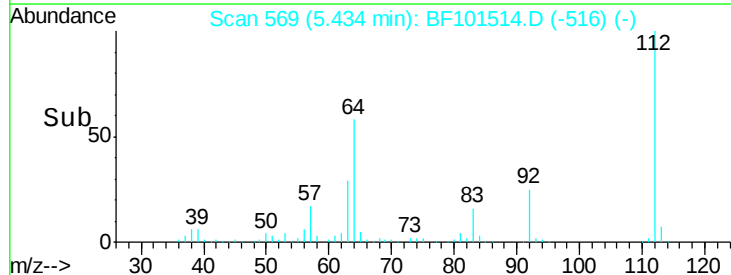
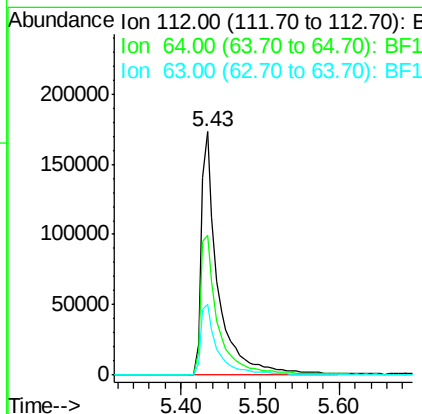
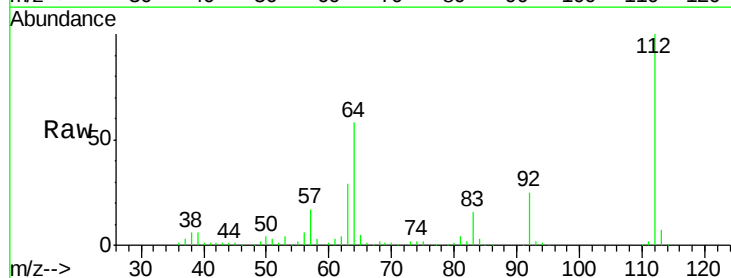
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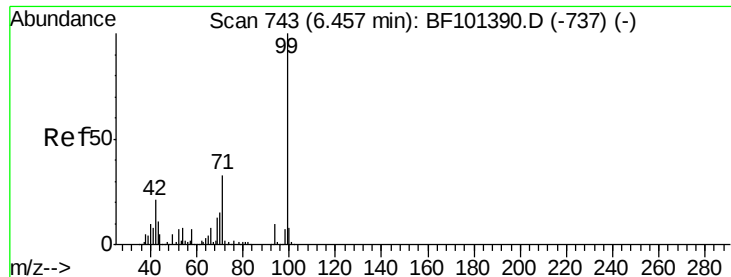


#5

2-Fluorophenol
Concen: 28.428 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.01 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.9	71.9
63	29.3	23.7	35.5





#7

Phenol-d6

Concen: 27.576 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF101514.D

Acq: 19 Dec 2017 9:09

Instrument :

BNA_F

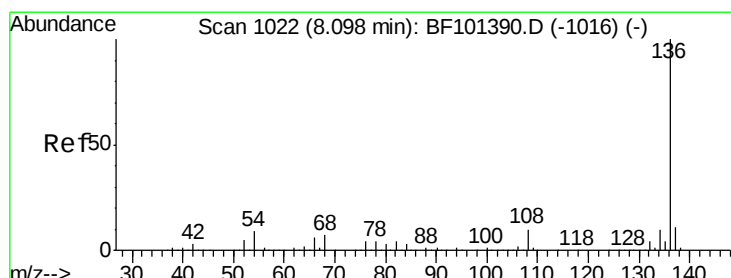
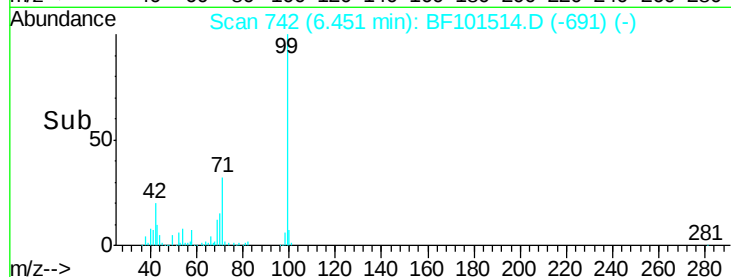
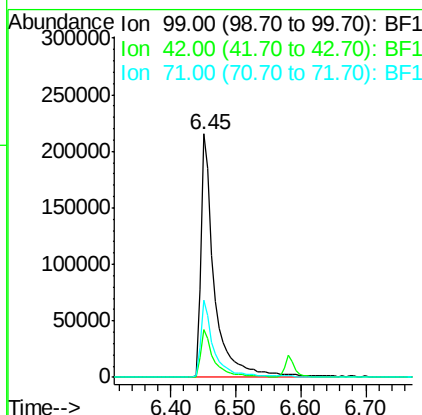
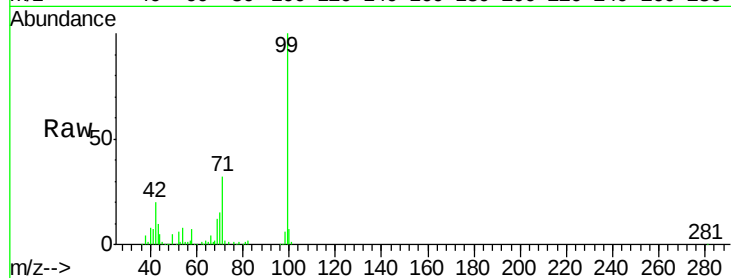
ClientSampleId :

SB-7(13-15)DL

Tgt Ion:	99	Resp:	312437
Ion Ratio	Lower	Upper	
99	100		
42	19.9	14.5	21.7
71	31.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

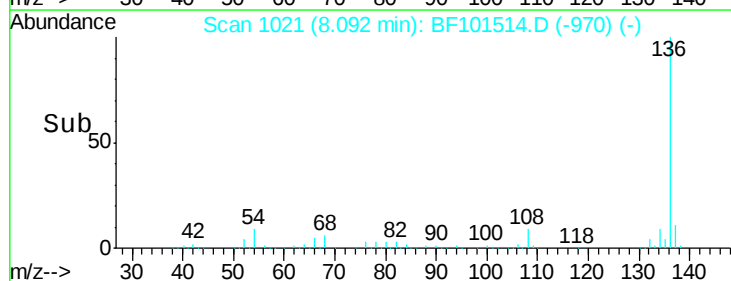
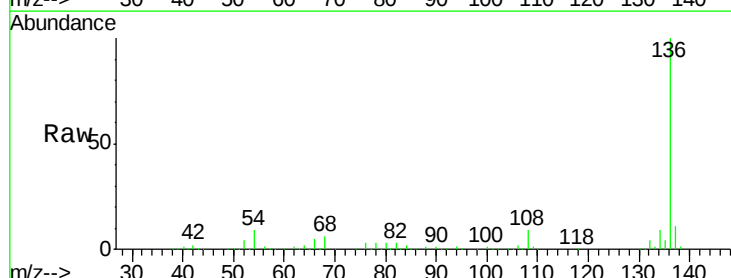
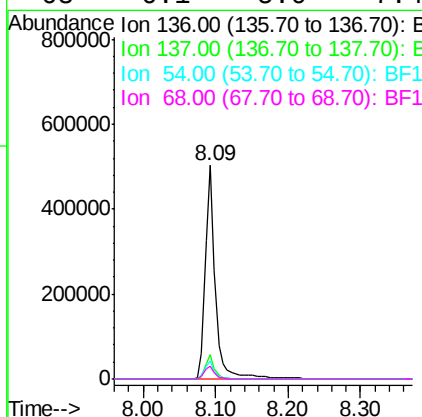
RT: 8.09 min Scan# 1021

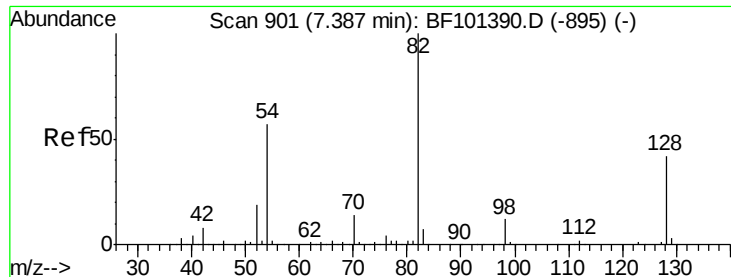
Delta R.T. -0.00 min

Lab File: BF101514.D

Acq: 19 Dec 2017 9:09

Tgt Ion:	136	Resp:	491360
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.7	6.6	9.8
68	6.1	5.0	7.4





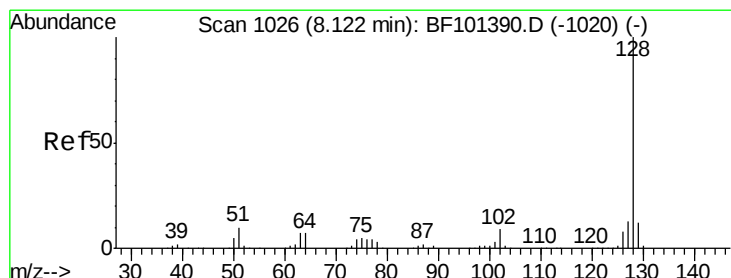
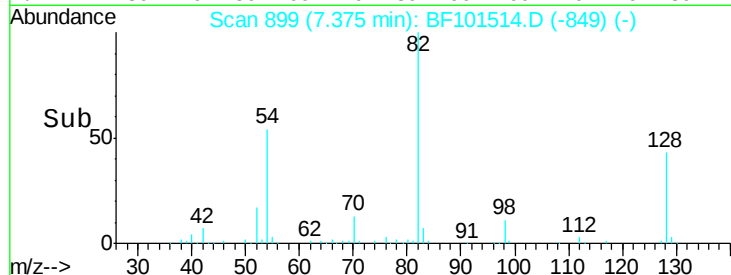
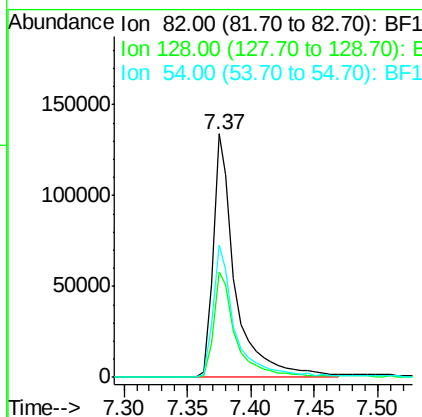
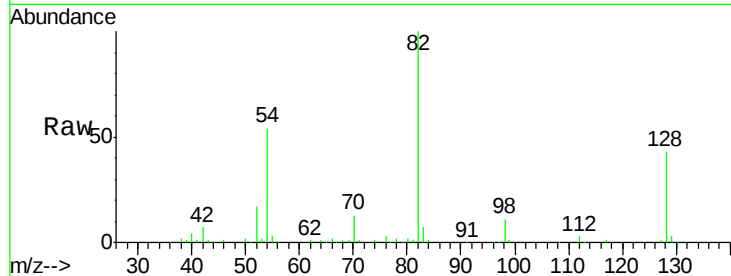
#23
Nitrobenzene-d5
Concen: 18.765 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL

Tgt Ion:	82	Resp:	165638
Ion Ratio	Lower	Upper	
82	100		
128	43.4	36.1	54.1
54	54.5	41.4	62.2

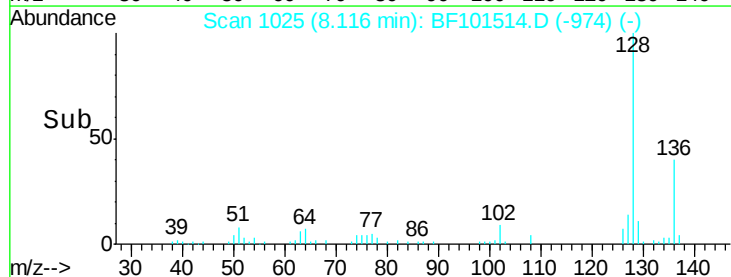
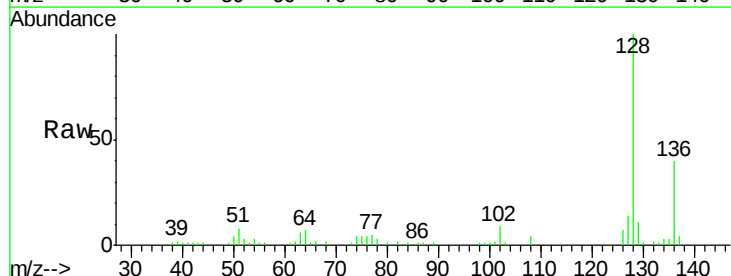
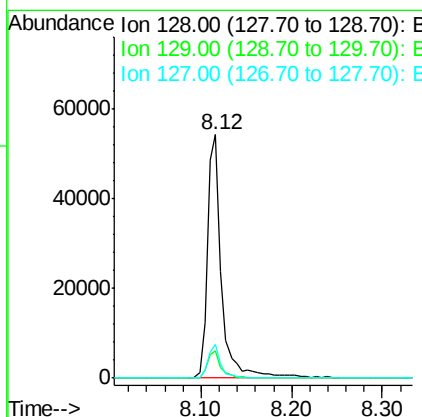
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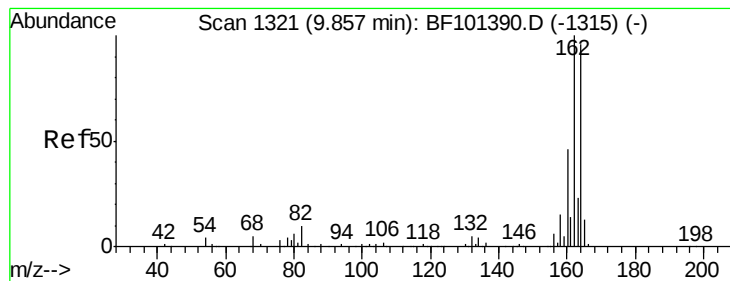
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#31
Naphthalene
Concen: 2.418 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Tgt Ion:	128	Resp:	59819
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.8	13.2
127	14.0	10.9	16.3





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.00 min

Lab File: BF101514.D

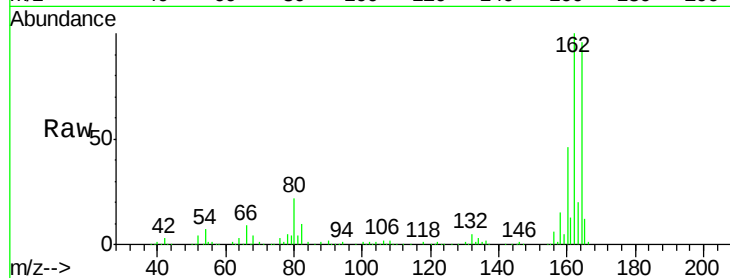
Acq: 19 Dec 2017 9:09

Instrument :

BNA_F

ClientSampleId :

SB-7(13-15)DL



Tgt Ion:164 Resp: 176619

Ion Ratio Lower Upper

164 100

162 104.0 86.1 129.1

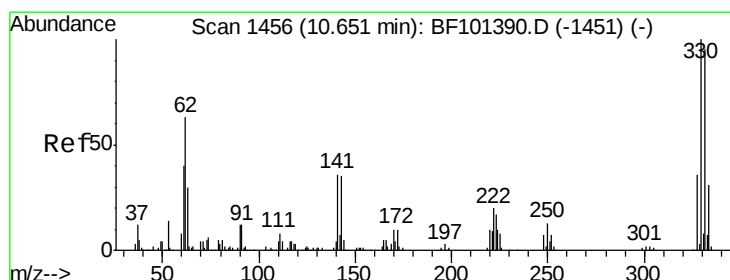
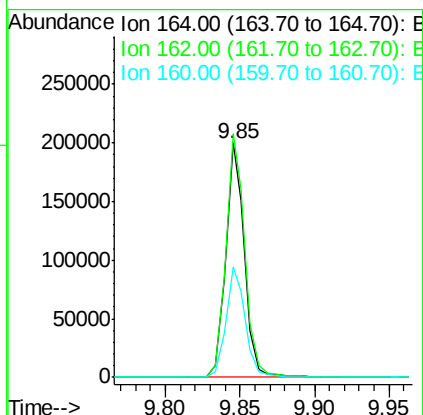
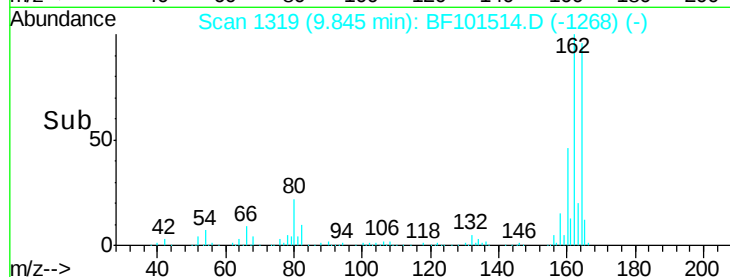
160 47.3 38.3 57.5

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#41

2,4,6-Tribromophenol

Concen: 23.899 ng

RT: 10.65 min Scan# 1455

Delta R.T. -0.00 min

Lab File: BF101514.D

Acq: 19 Dec 2017 9:09

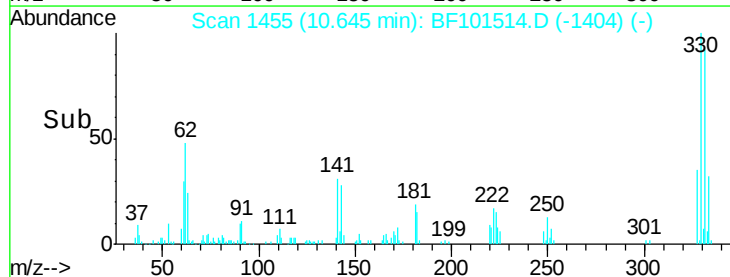
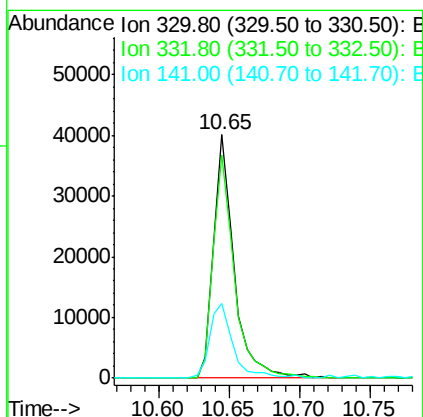
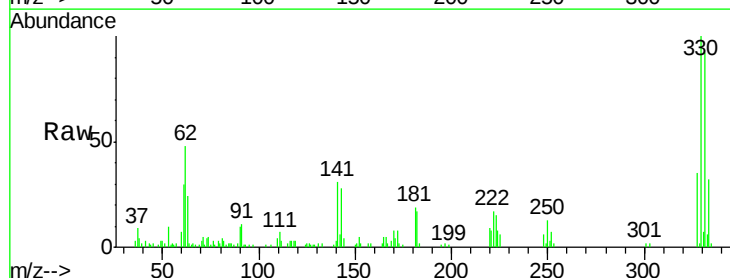
Tgt Ion:330 Resp: 40673

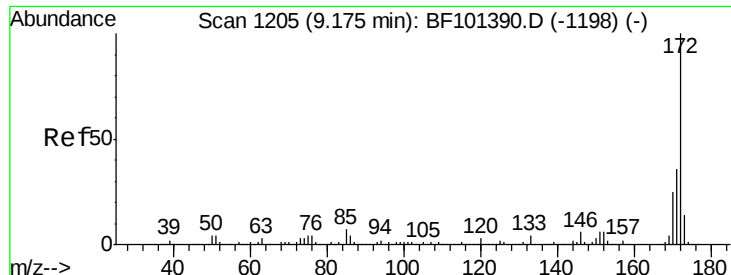
Ion Ratio Lower Upper

330 100

332 94.7 77.0 115.6

141 34.8 29.9 44.9





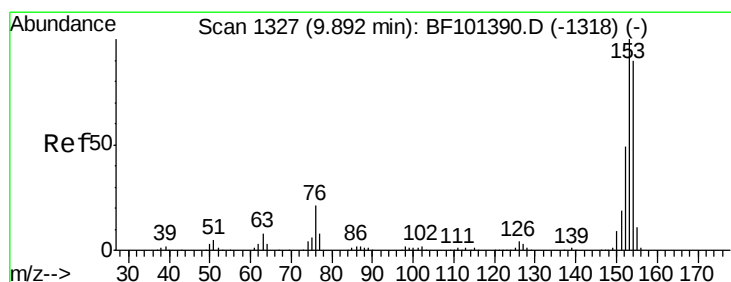
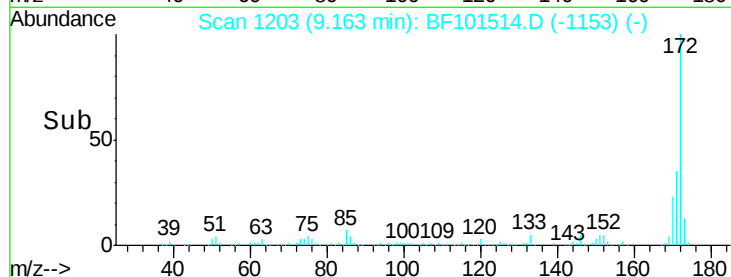
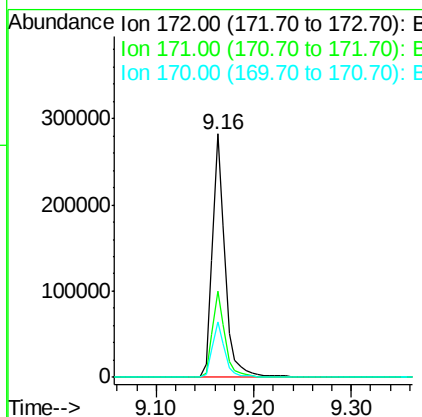
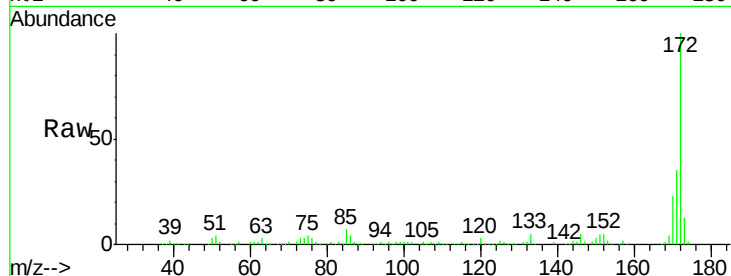
#44
 2-Fluorobiphenyl
 Concen: 22.406 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF101514.D
 Acq: 19 Dec 2017 9:09

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.3	29.7	44.5
170	22.9	19.6	29.4

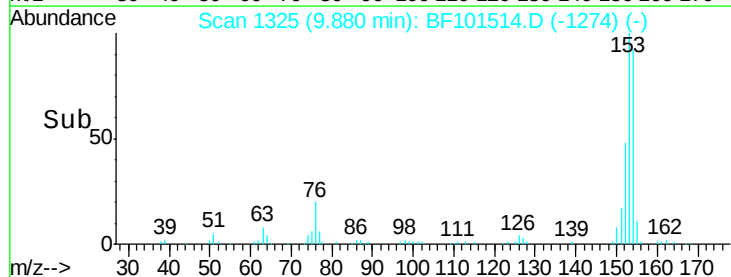
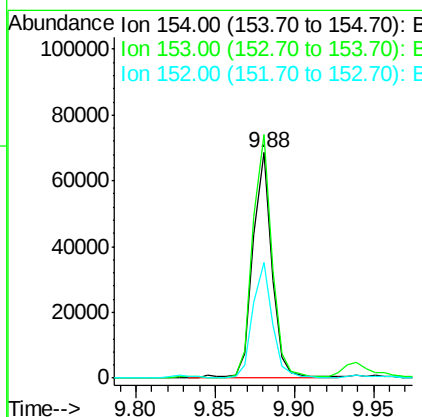
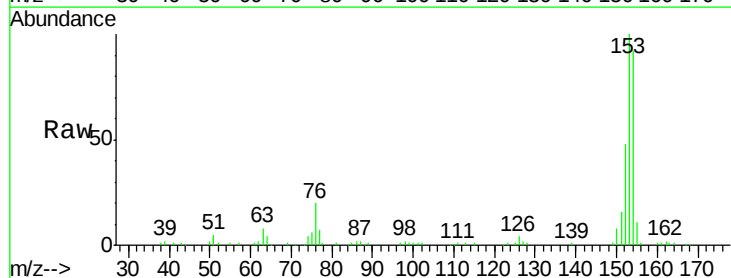
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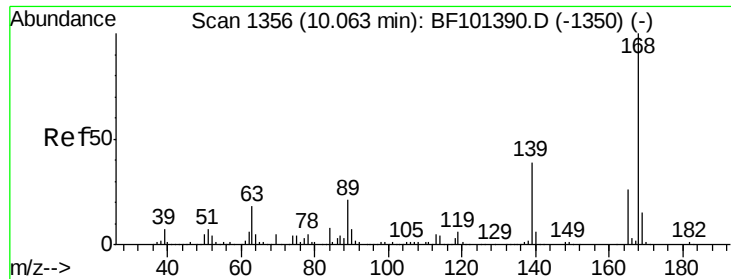
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#51
 Acenaphthene
 Concen: 5.051 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: BF101514.D
 Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	108.2	91.2	136.8
152	51.6	43.8	65.8





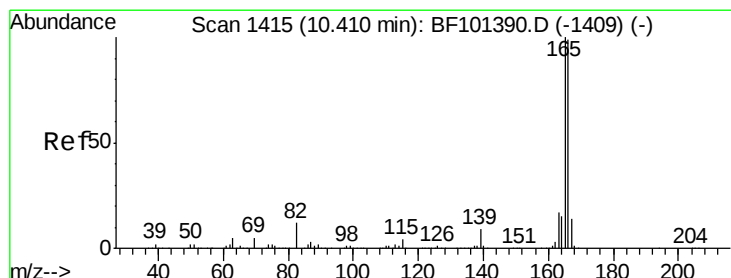
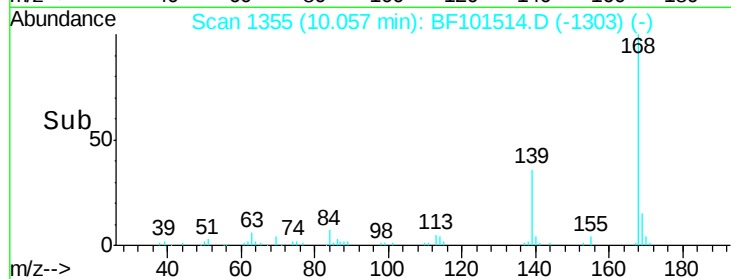
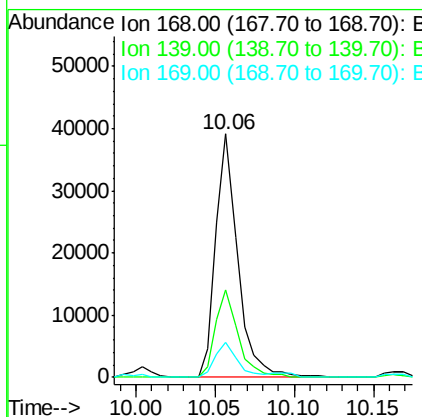
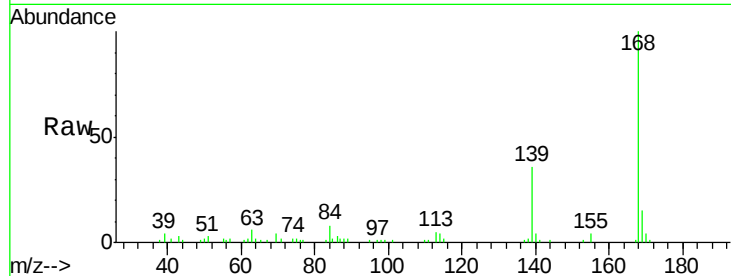
#54
Dibenzenofuran
Concen: 2.637 ng
RT: 10.06 min Scan# 1355
Delta R.T. 0.01 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Instrument :
BNA_F
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Tgt Ion	Ratio	Resp	Lower	Upper
168	100	38117		
139	35.9	30.1	45.1	
169	14.6	10.9	16.3	

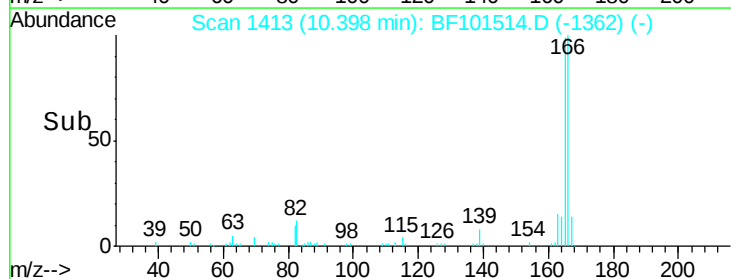
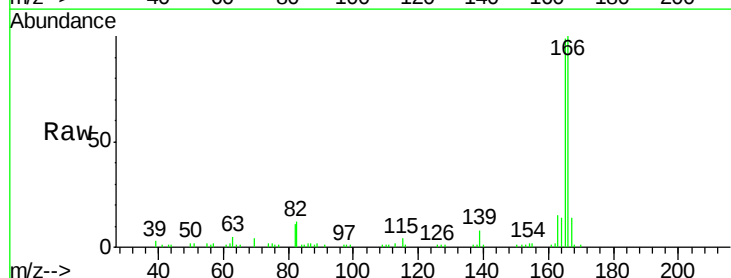
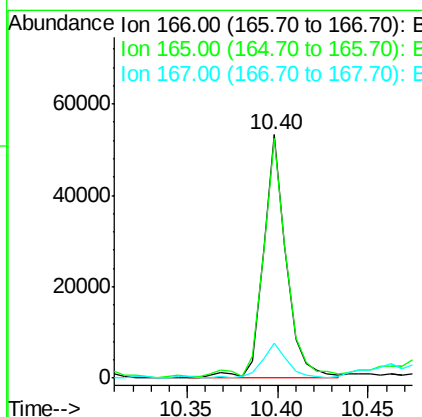
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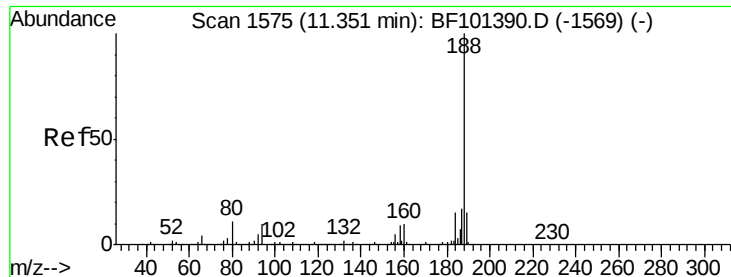
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#57
Fluorene
Concen: 3.826 ng
RT: 10.40 min Scan# 1413
Delta R.T. -0.00 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	46776		
165	98.7	79.8	119.8	
167	14.4	10.6	16.0	





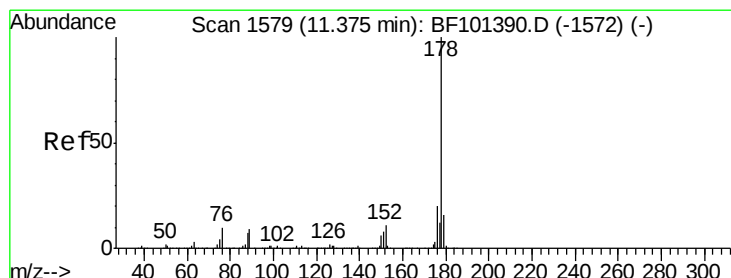
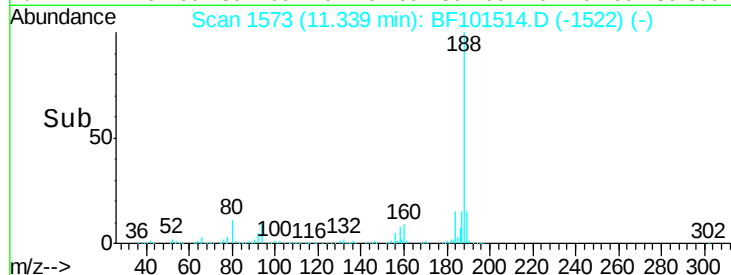
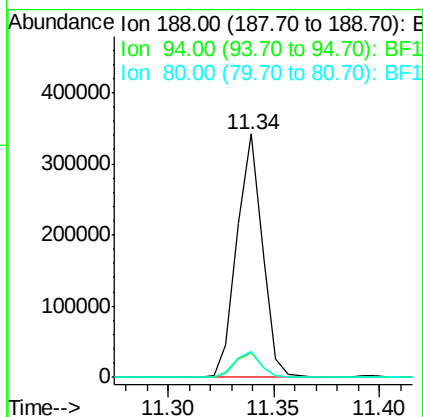
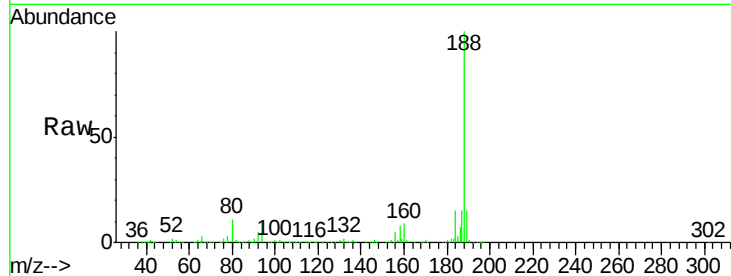
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.00 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.0	8.5	12.7
80	10.8	9.2	13.8

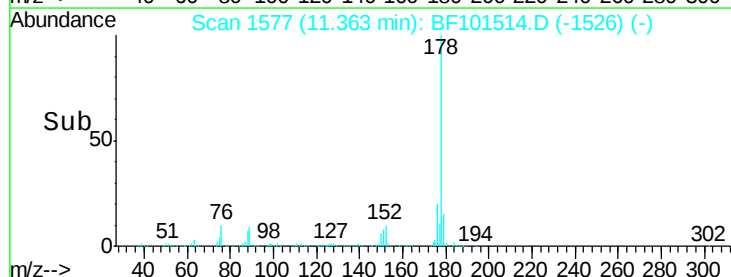
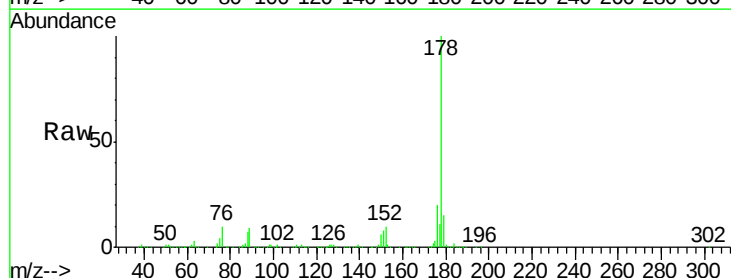
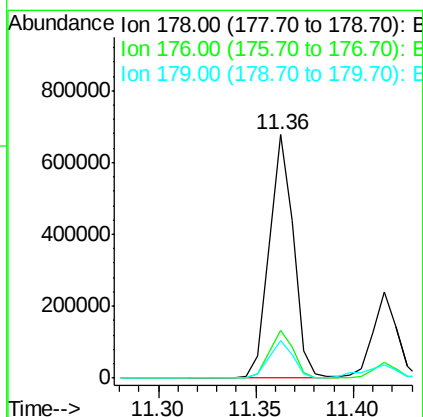
Manual Integrations
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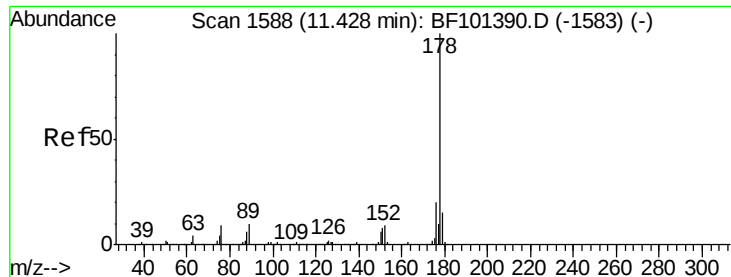
Sohil
12/19/2017 4:50:16 PM



#70
Phenanthrene
Concen: 36.776 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.8	15.8	23.8
179	15.4	13.0	19.6





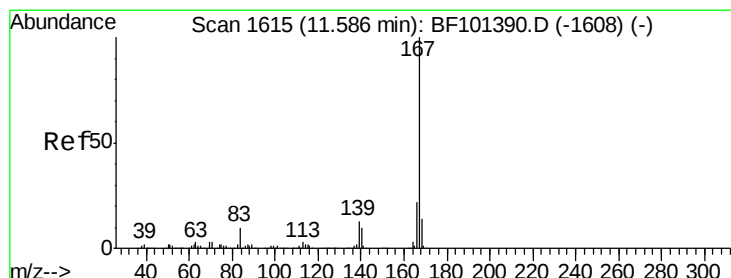
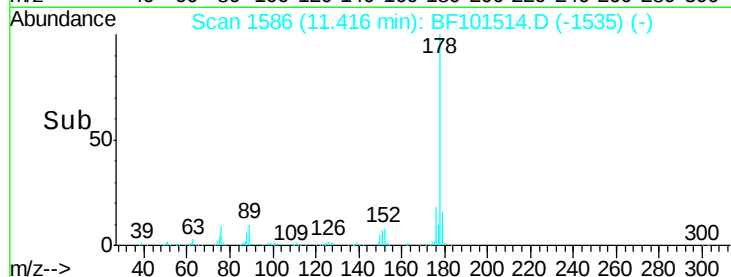
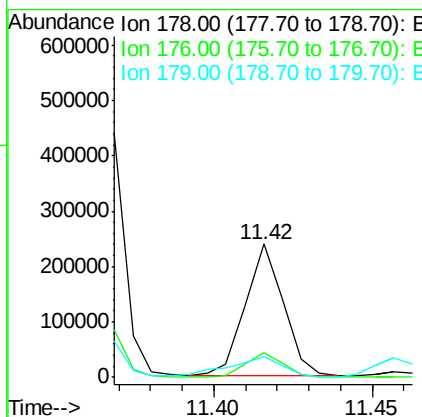
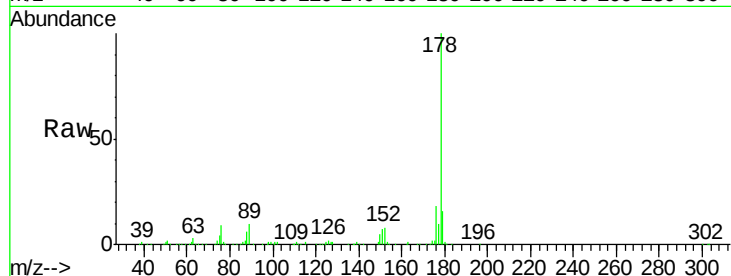
#71
 Anthracene
 Concen: 12.332 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: BF101514.D
 Acq: 19 Dec 2017 9:09

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.7	12.6	19.0

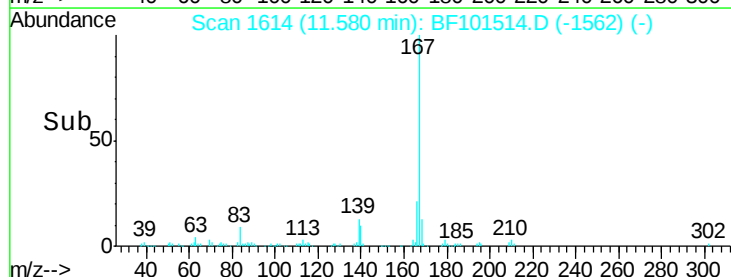
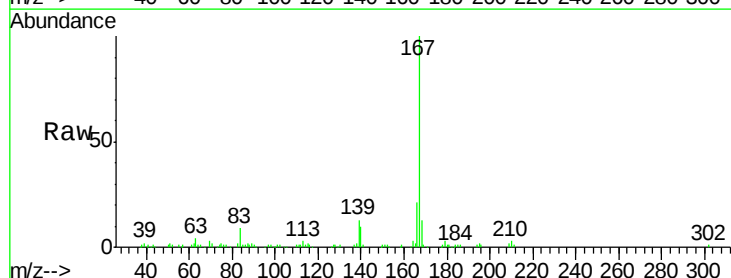
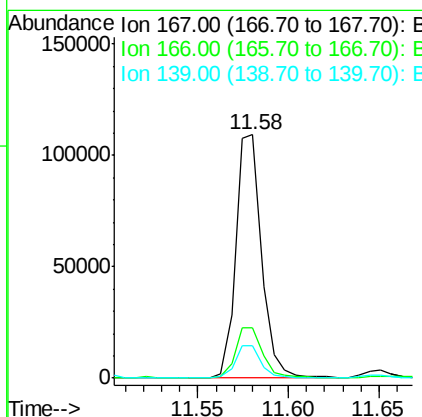
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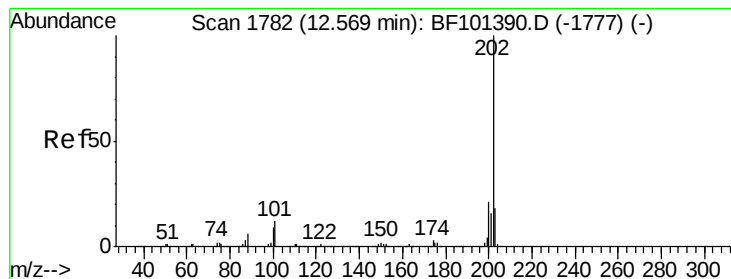
Sohil
 12/19/2017 4:50:16 PM



#72
 Carbazole
 Concen: 7.170 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.01 min
 Lab File: BF101514.D
 Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.8	17.6	26.4
139	13.3	10.9	16.3





#74

Fluoranthene

Concen: 55.596 ng

RT: 12.56 min Scan# 1781

Delta R.T. 0.01 min

Lab File: BF101514.D

Acq: 19 Dec 2017 9:09

Instrument :

BNA_F

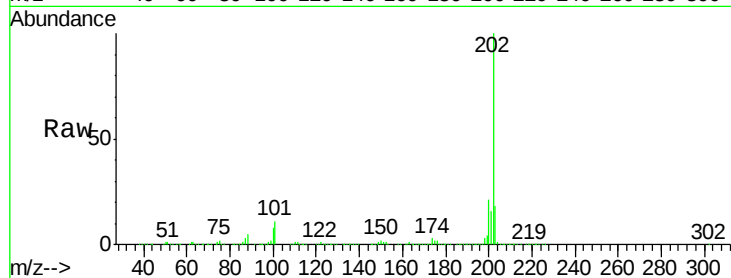
ClientSampleId :

SB-7(13-15)DL

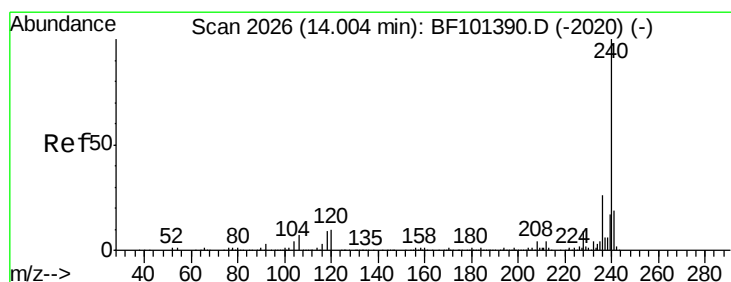
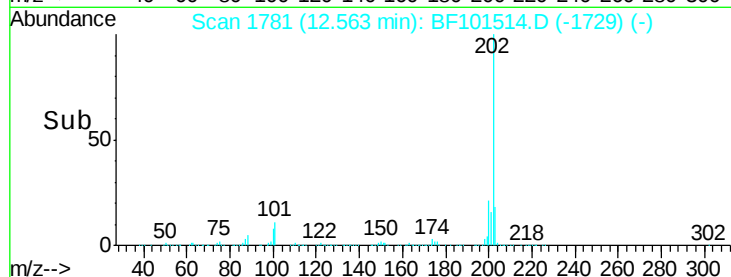
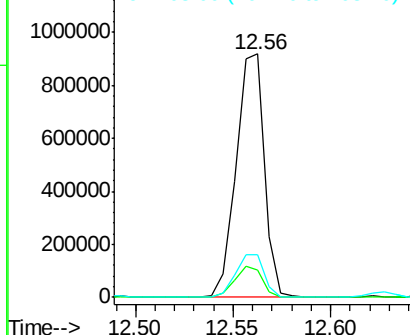
Tgt Ion:	202	Resp:	922084
Ion Ratio	Lower	Upper	
202	100		
101	11.4	0.0	34.1
203	17.7	0.0	38.1

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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



#75

Chrysene-d12

Concen: 20.000 ng

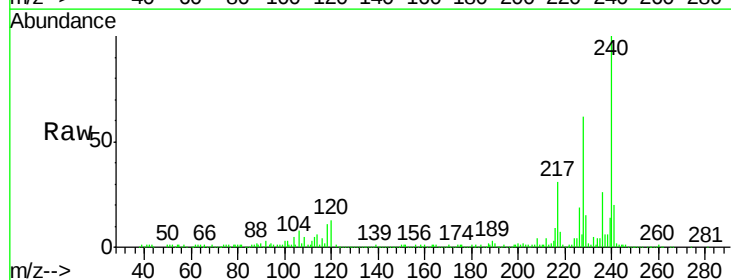
RT: 13.99 min Scan# 2024

Delta R.T. 0.01 min

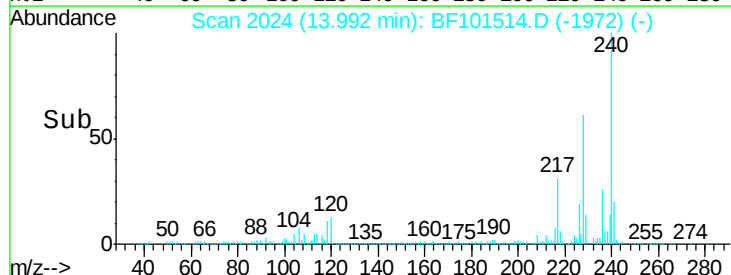
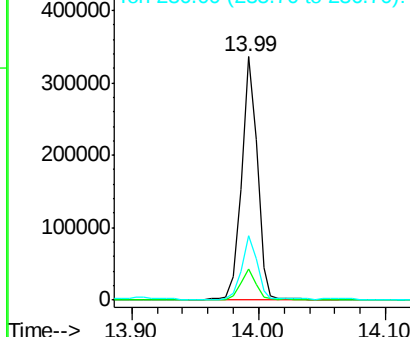
Lab File: BF101514.D

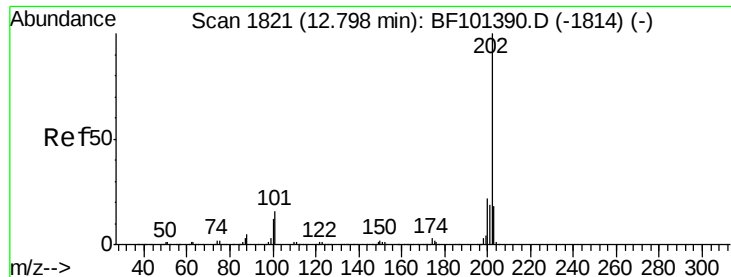
Acq: 19 Dec 2017 9:09

Tgt Ion:	240	Resp:	284074
Ion Ratio	Lower	Upper	
240	100		
120	12.6	9.5	14.3
236	26.2	20.7	31.1



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





#77

Pyrene

Concen: 44.552 ng

RT: 12.79 min Scan# 1820

Delta R.T. 0.01 min

Lab File: BF101514.D

Acq: 19 Dec 2017 9:09

Instrument :

BNA_F

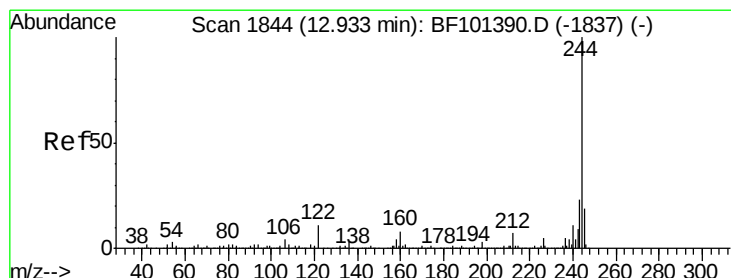
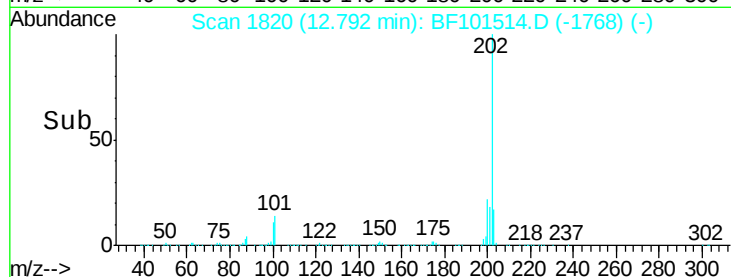
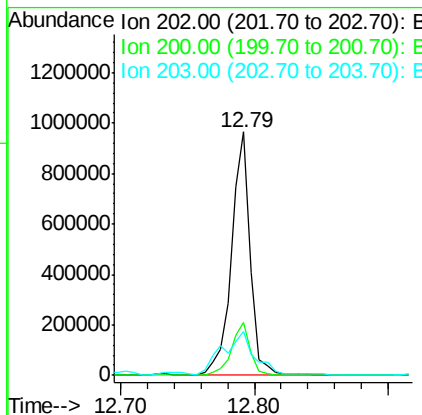
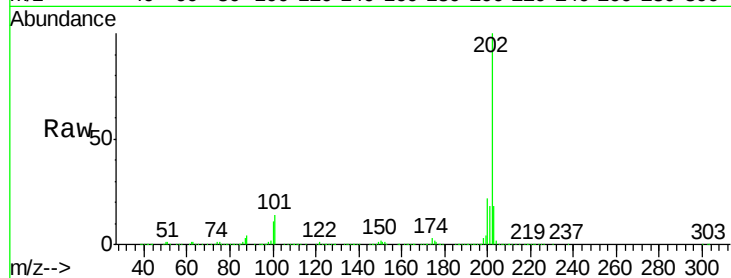
ClientSampleId :

SB-7(13-15)DL

Tgt Ion:	202	Resp:	949827
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.4	26.2
203	17.8	14.3	21.5

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#78

Terphenyl-d14

Concen: 15.618 ng

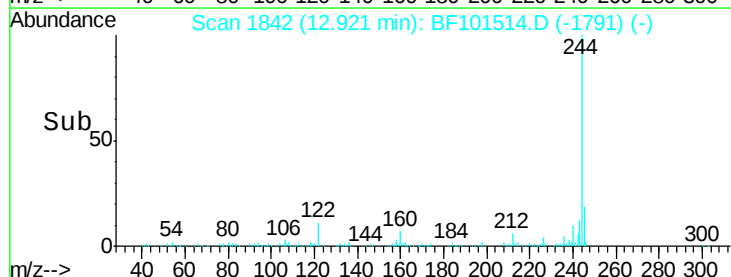
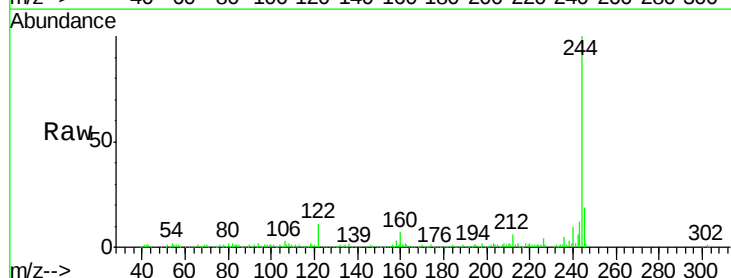
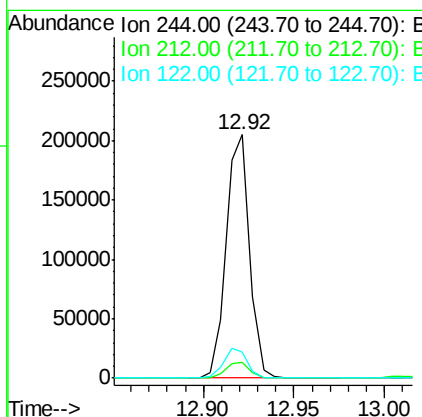
RT: 12.92 min Scan# 1842

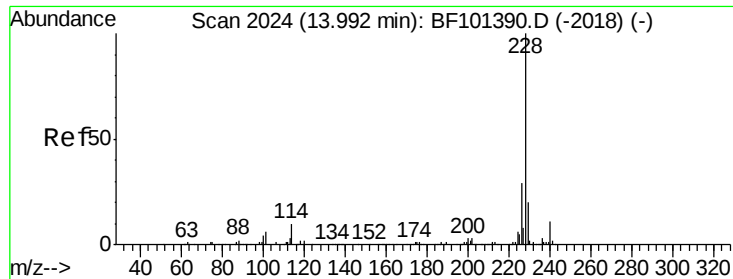
Delta R.T. -0.00 min

Lab File: BF101514.D

Acq: 19 Dec 2017 9:09

Tgt Ion:	244	Resp:	184040
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	10.7	11.0	16.4#





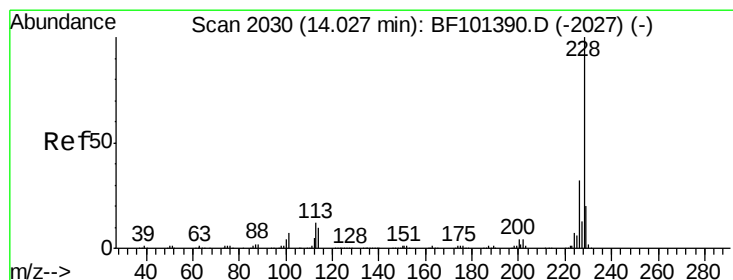
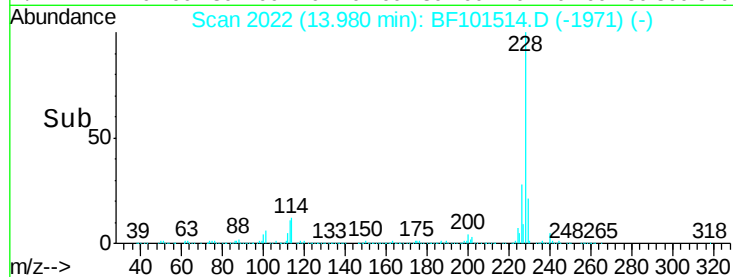
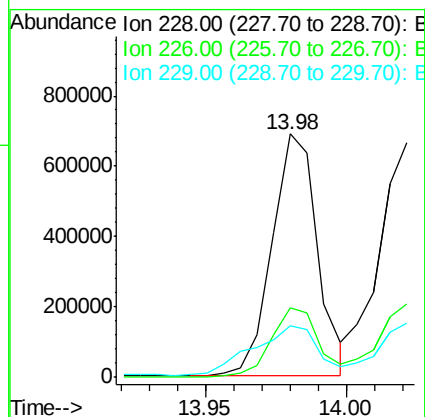
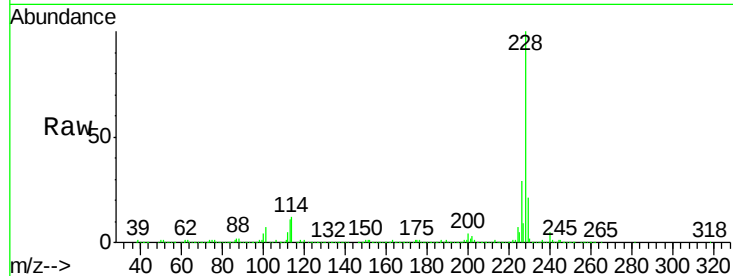
#80
Benzo(a)anthracene
Concen: 40.949 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.00 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	33.8
229	21.0	15.8	23.6

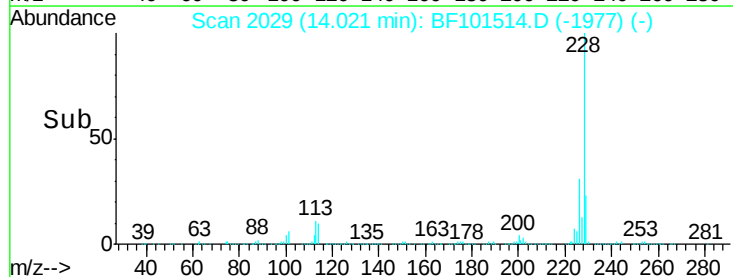
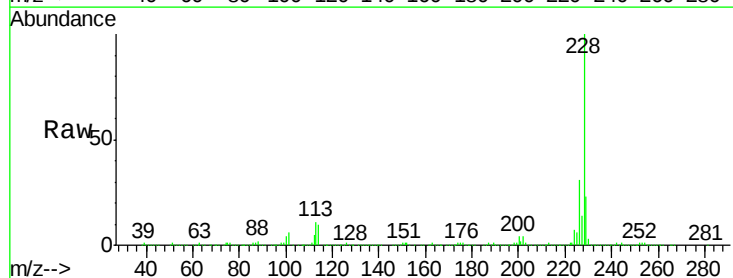
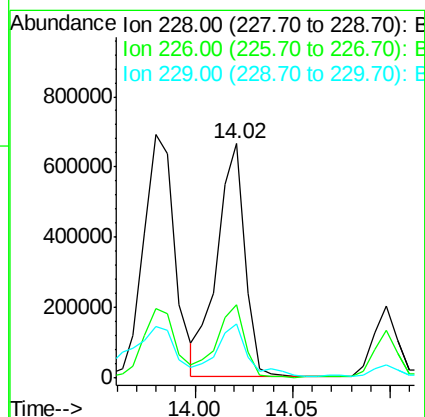
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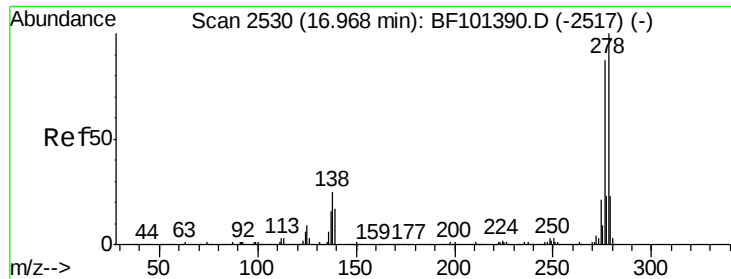
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#82
Chrysene
Concen: 37.386 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.01 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	23.2	16.2	24.4





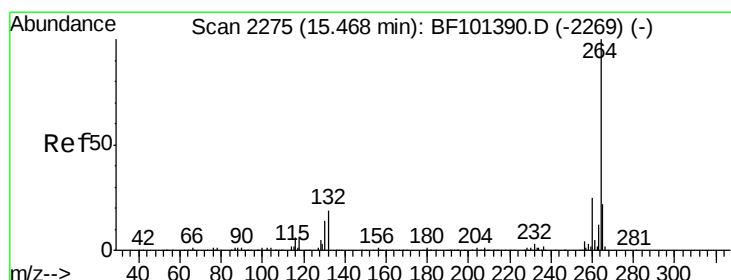
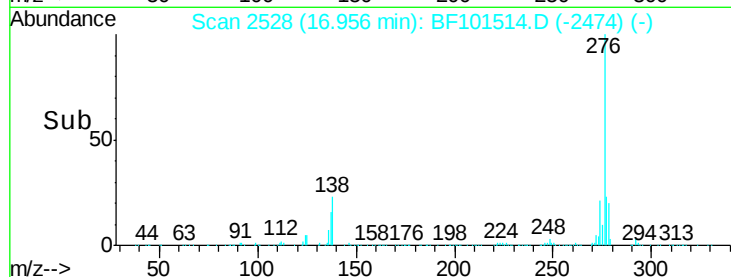
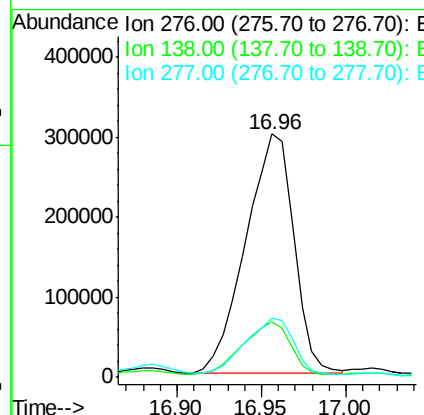
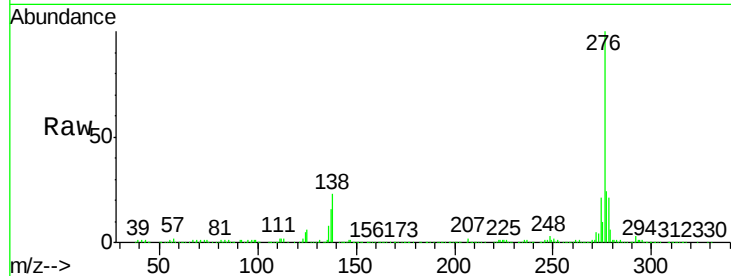
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 37.338 ng
 RT: 16.96 min Scan# 2528
 Delta R.T. 0.02 min
 Lab File: BF101514.D
 Acq: 19 Dec 2017 9:09

Instrument :
 BNA_F
 ClientSampleId :
 SB-7(13-15)DL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	588874		
138	22.7	25.0	37.6#	
277	24.1	20.1	30.1	

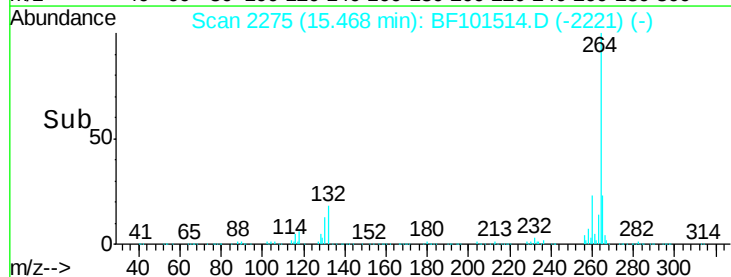
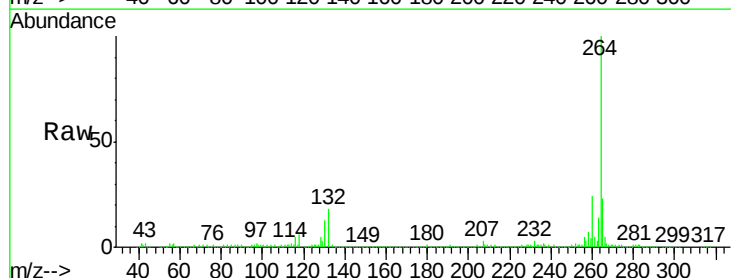
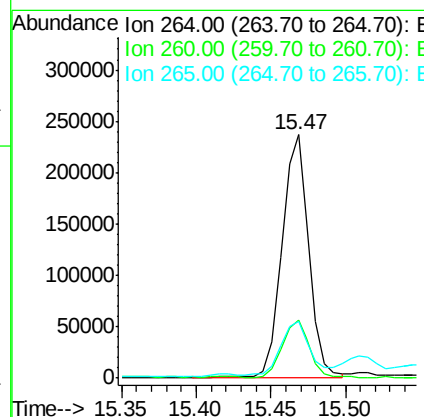
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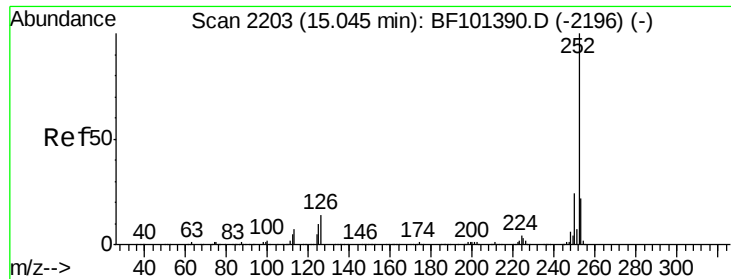
Sohil
 12/19/2017 4:50:16 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2275
 Delta R.T. 0.02 min
 Lab File: BF101514.D
 Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	295788		
260	24.0	19.2	28.8	
265	23.3	17.5	26.3	





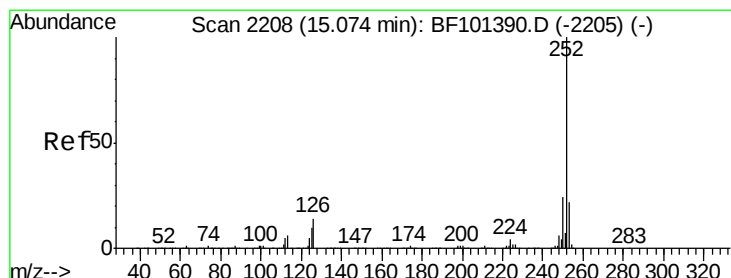
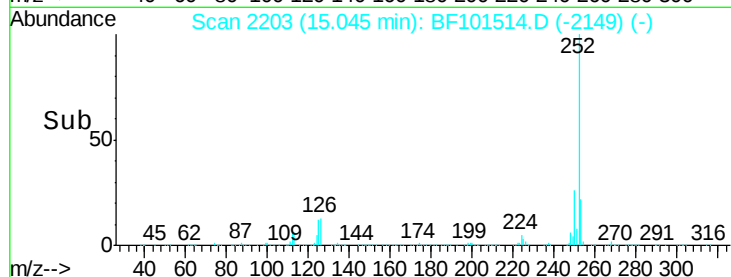
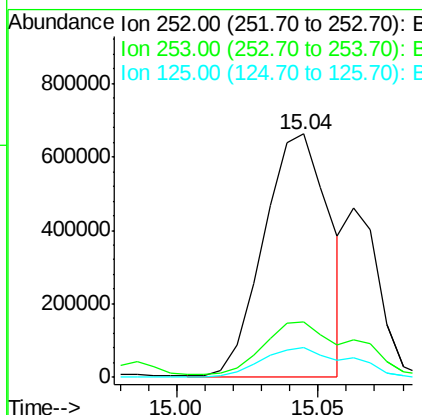
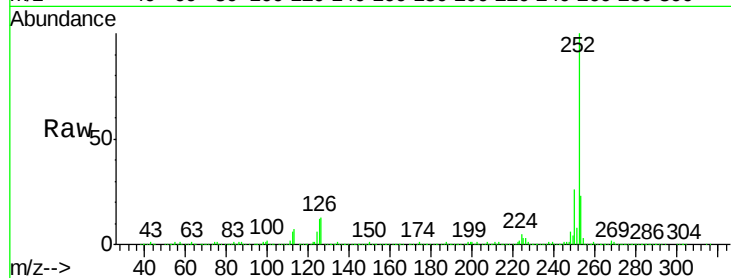
#87
Benzo(b)fluoranthene
Concen: 59.483 ng m
RT: 15.04 min Scan# 2203
Delta R.T. 0.02 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL

Tgt Ion: 252 Resp: 1072410
Ion Ratio Lower Upper
252 100
253 22.9 17.0 25.6
125 12.1 9.0 13.6

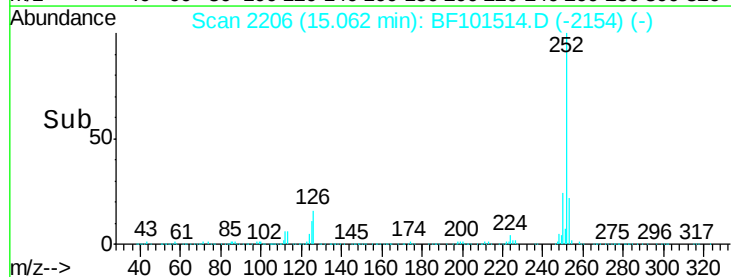
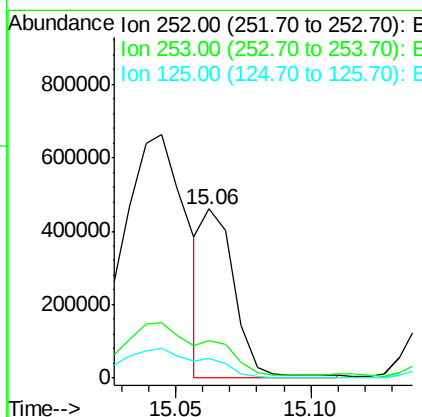
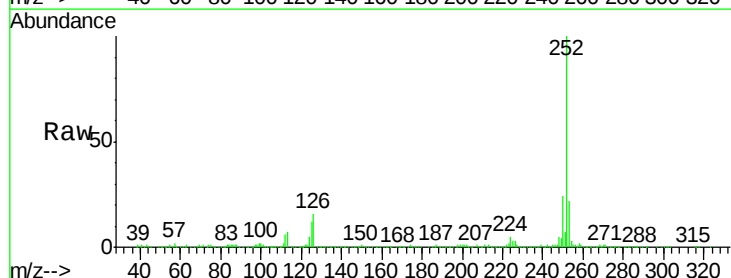
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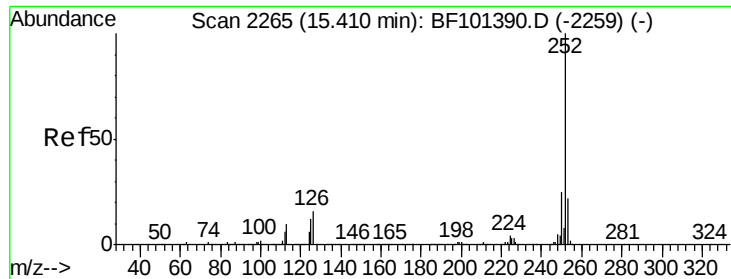
Sohil
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#88
Benzo(k)fluoranthene
Concen: 21.692 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Tgt Ion: 252 Resp: 380233
Ion Ratio Lower Upper
252 100
253 22.3 17.9 26.9
125 11.8 10.2 15.2





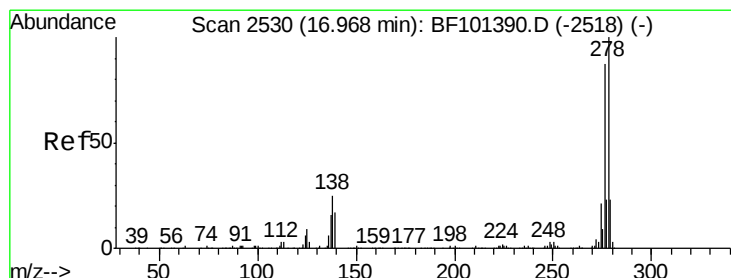
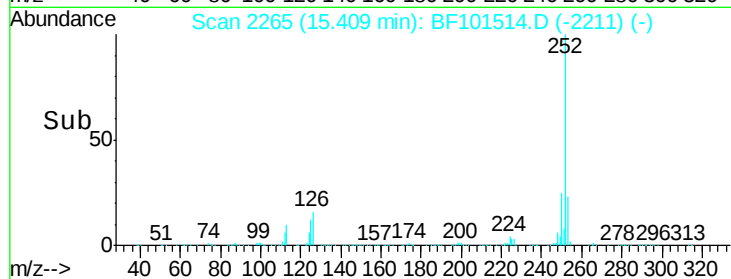
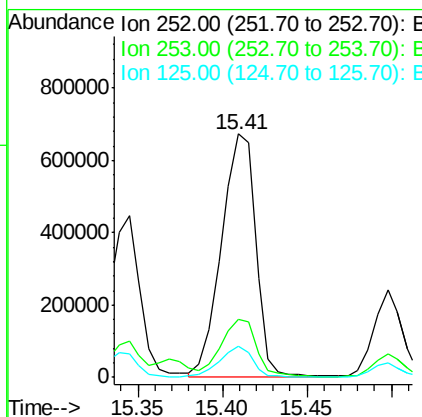
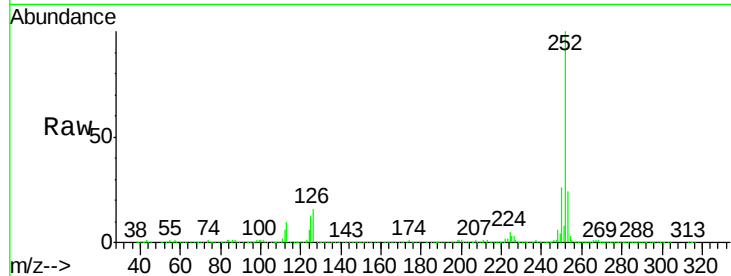
#89
Benzo(a)pyrene
Concen: 56.780 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Instrument :
BNA_F
ClientSampleId :
SB-7(13-15)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.1	25.7
125	12.6	9.8	14.6

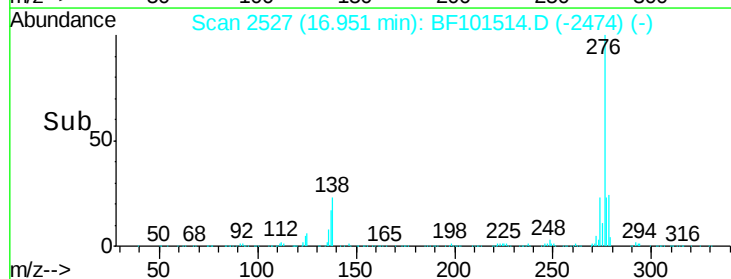
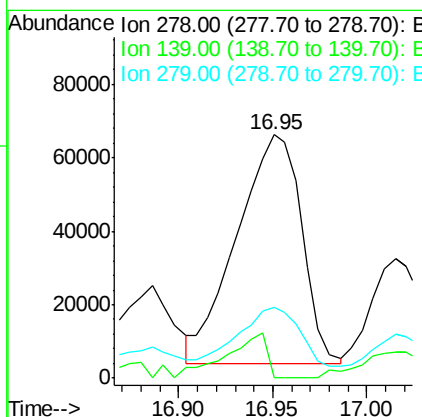
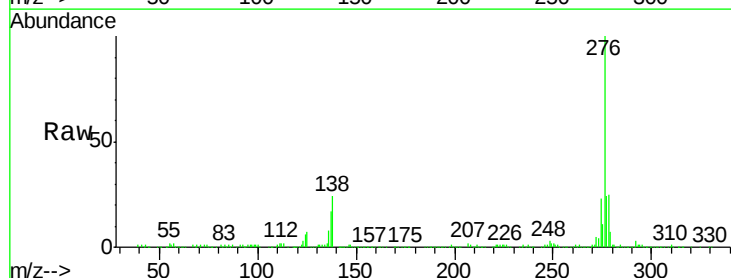
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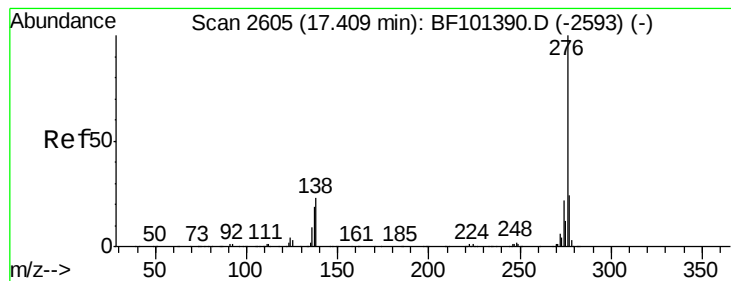
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 10.489 ng m
RT: 16.95 min Scan# 2527
Delta R.T. 0.01 min
Lab File: BF101514.D
Acq: 19 Dec 2017 9:09

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.2	19.0	28.4#





#91

Benzo(g,h,i)perylene

Concen: 38.939 ng

RT: 17.41 min Scan# 2605

Delta R.T. 0.03 min

Lab File: BF101514.D

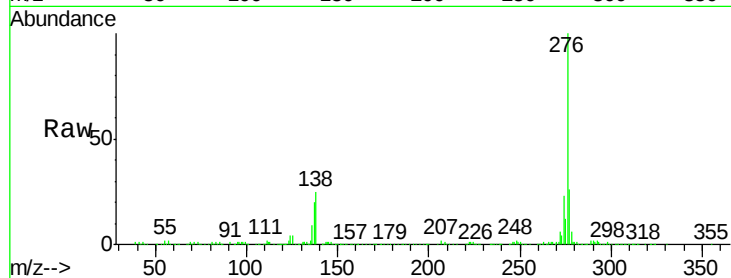
Acq: 19 Dec 2017 9:09

Instrument :

BNA_F

ClientSampleId :

SB-7(13-15)DL



Tgt Ion:	276	Resp:	550212
Ion Ratio		Lower	Upper
276	100		
277	26.4	17.9	26.9
138	24.8	21.8	32.8

Manual Integrations
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