

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
 Data File : BF116701.D
 Acq On : 31 Aug 2019 16:06
 Operator : HP/JU
 Sample : K4528-10
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T9-12-13-S1-S4-(0-1.9)

Manual Integrations
 APPROVED

mohammad
 9/5/2019 9:23:37 AM

Quant Time: Sep 01 00:50:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	110952	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	437521	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	213728	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	271114	20.00	ng	0.00
76) Chrysene-d12	14.00	240	179049	20.00	ng	0.00
87) Perylene-d12	15.46	264	234992	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	594675	86.83	ng	0.00
7) Phenol-d6	6.47	99	811519	90.24	ng	0.00
23) Nitrobenzene-d5	7.40	82	502623	65.58	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	134620	94.22	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	795735	62.81	ng	0.00
79) Terphenyl-d14	12.96	244	516809	53.40	ng	0.00
Target Compounds						
10) Phenol	6.49	94	33343	3.348	ng	91
31) Naphthalene	8.15	128	66786	3.210	ng	99
50) Dimethylphthalate	9.59	163	98102	6.648	ng	# 97
52) Acenaphthene	9.92	154	28569	2.395	ng	96
55) Dibenzofuran	10.09	168	39621	2.356	ng	# 93
58) Fluorene	10.43	166	27673	2.159	ng	# 87
71) Phenanthrene	11.39	178	246061	16.304	ng	# 92
72) Anthracene	11.45	178	45667	3.006	ng	# 75
75) Fluoranthene	12.59	202	381206	25.702	ng	87
78) Pyrene	12.82	202	333141	20.931	ng	# 92
81) Benzo(a)anthracene	13.99	228	155020	13.680	ng	96
83) Chrysene	14.03	228	166589m	14.269	ng	
86) Indeno(1,2,3-cd)pyrene	16.91	276	172935	18.442	ng	97
88) Benzo(b)fluoranthene	15.04	252	306377m	21.565	ng	
89) Benzo(k)fluoranthene	15.06	252	76135m	5.877	ng	
90) Benzo(a)pyrene	15.40	252	200305	16.205	ng	# 89
91) Dibenzo(a,h)anthracene	16.92	278	36267	3.352	ng	# 61
92) Benzo(g,h,i)perylene	17.34	276	181342	16.435	ng	# 92

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

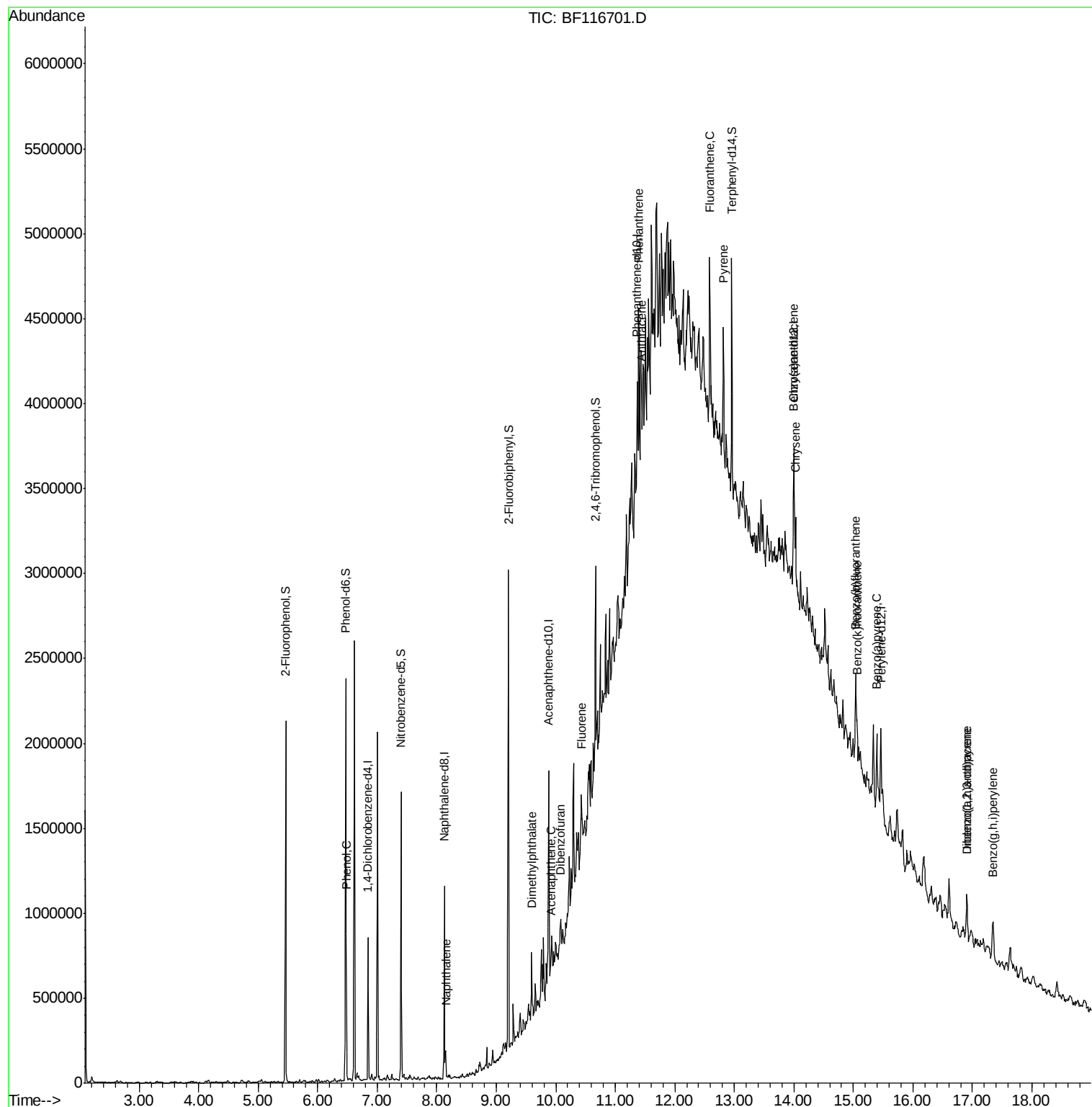
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116701.D
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#1

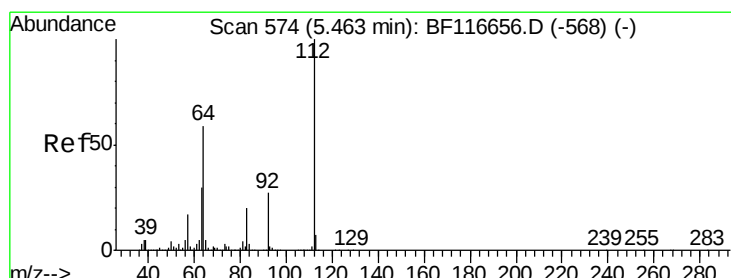
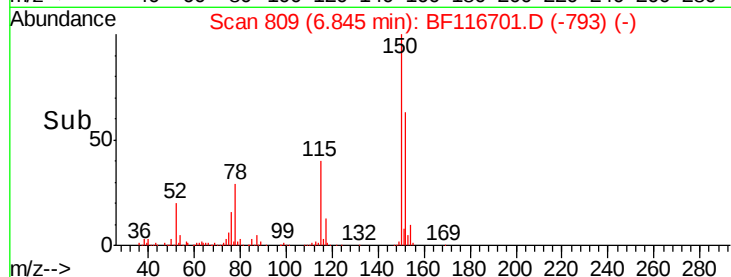
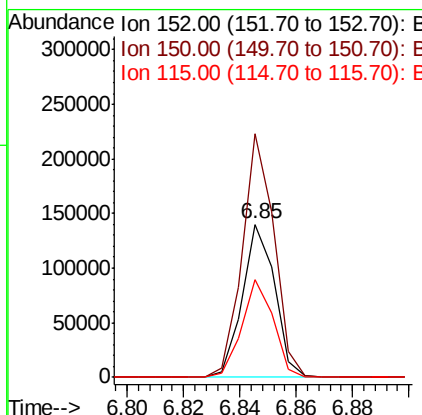
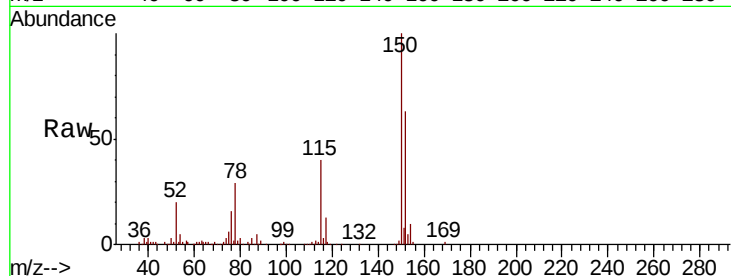
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Instrument :
BNA_F
ClientSampleId :
T9-12-13-S1-S4-(0-1.9)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	110952		
150	159.3	124.4	186.6	
115	64.0	49.9	74.9	

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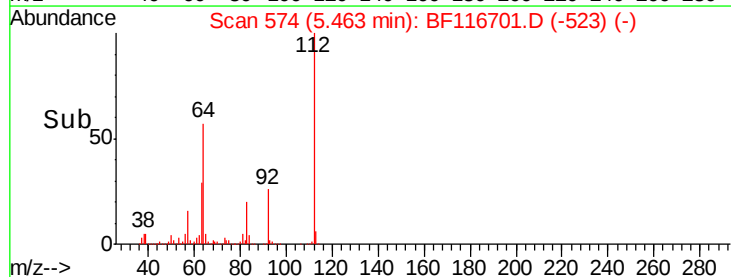
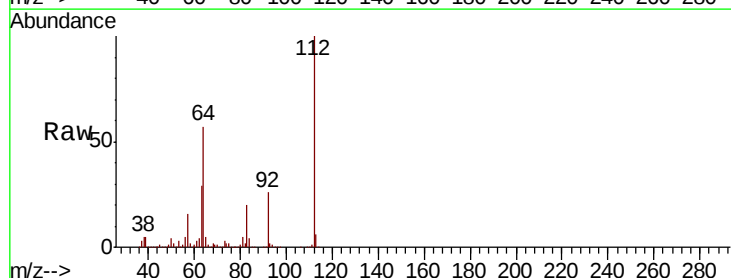
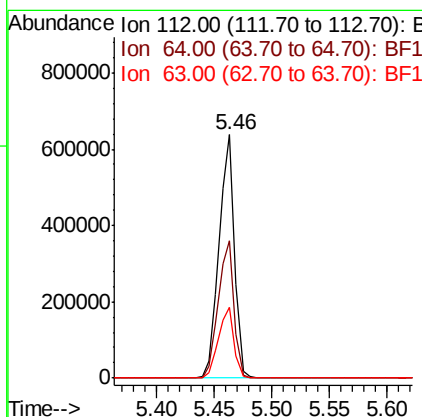
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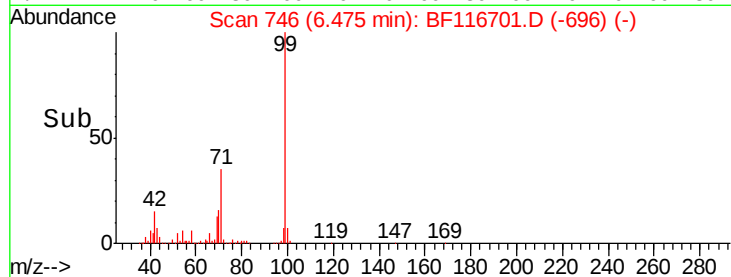
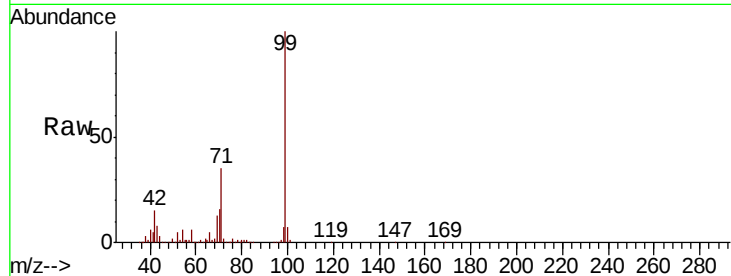


#5

2-Fluorophenol
Concen: 86.831 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	594675		
64	56.6	47.1	70.7	
63	29.2	24.9	37.3	





#7

Phenol-d6

Concen: 90.239 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Tot Ion:	99	Resp:	811519
Ion Ratio	Lower	Upper	
99	100		
42	15.2	13.7	20.5
71	35.2	30.8	46.2

Instrument :

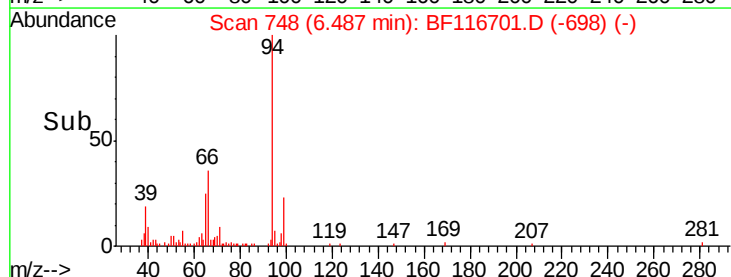
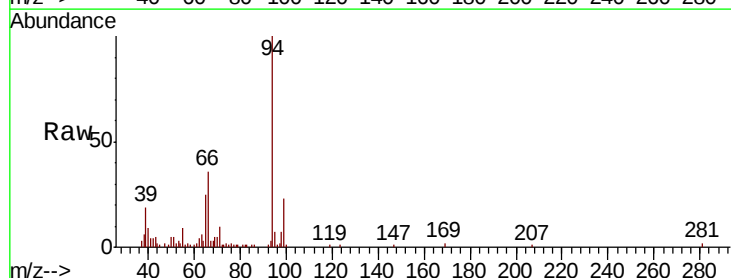
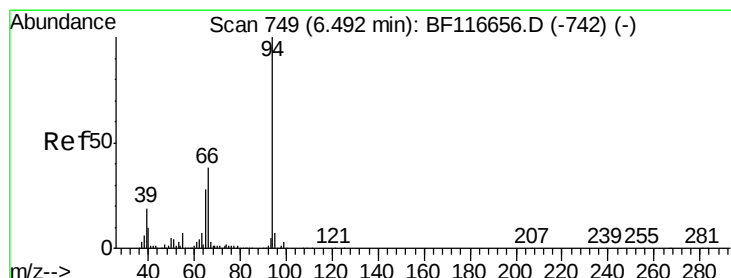
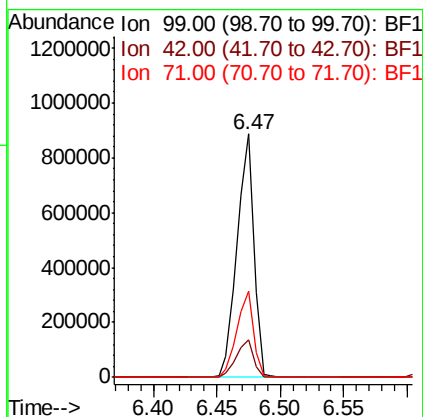
BNA_F

ClientSampleId :

T9-12-13-S1-S4-(0-1.9)

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#10

Phenol

Concen: 3.348 ng

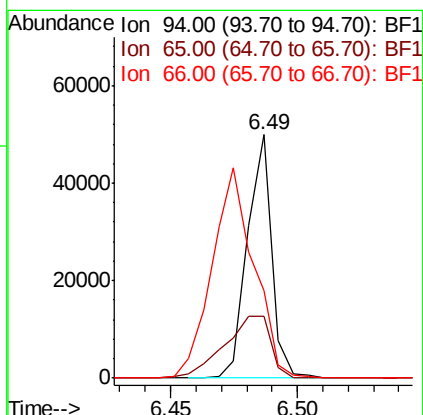
RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Tgt Ion:	94	Resp:	33343
Ion Ratio	Lower	Upper	
94	100		
65	25.4	10.8	50.8
66	35.8	21.1	61.1





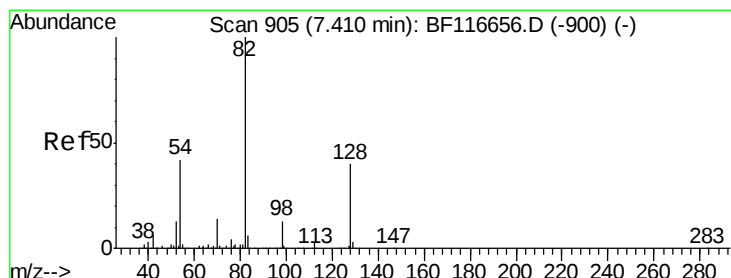
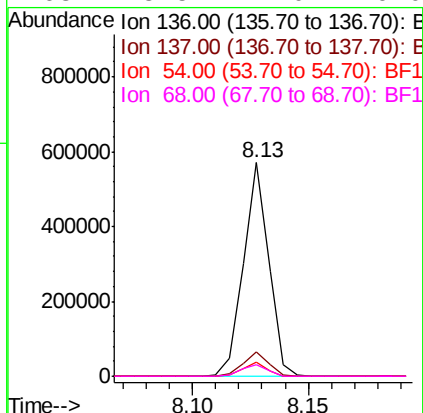
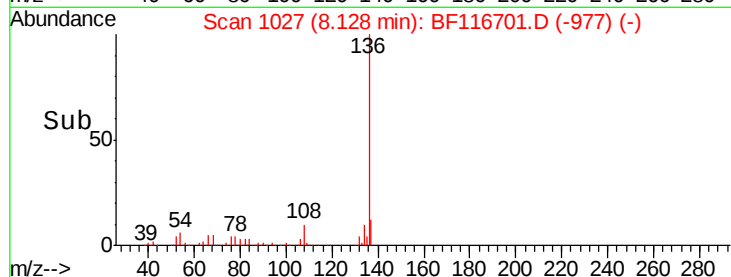
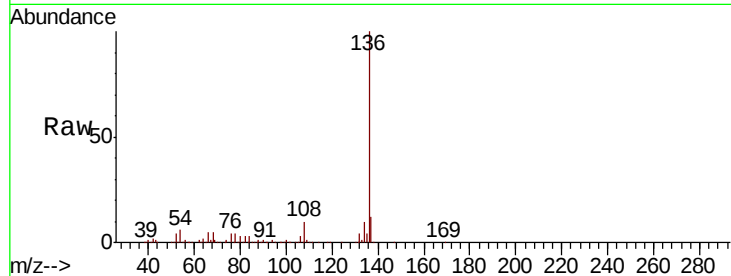
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Instrument :
BNA_F
ClientSampleId :
T9-12-13-S1-S4-(0-1.9)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		437521		
137	11.5	8.9	13.3		
54	6.4	4.8	7.2		
68	5.5	4.0	6.0		

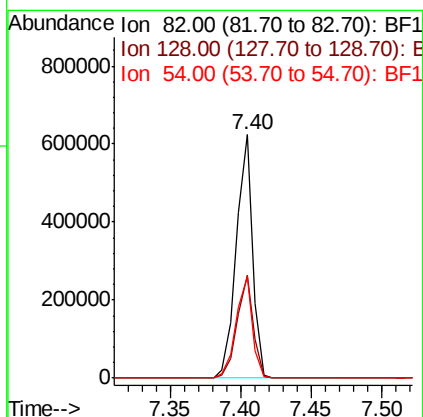
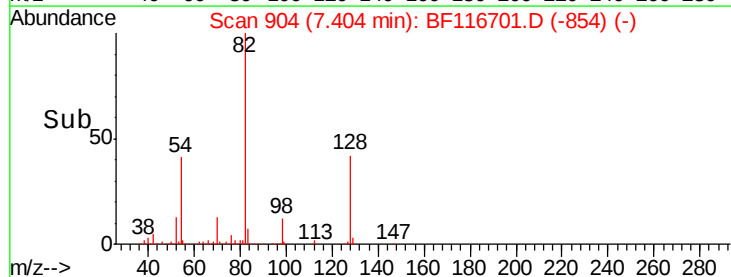
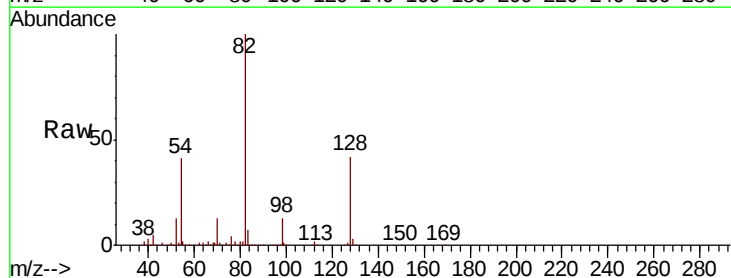
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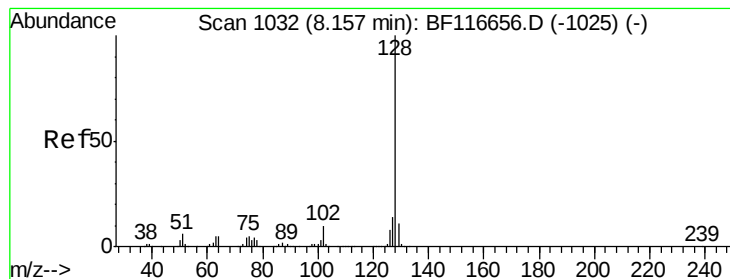
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#23
Nitrobenzene-d5
Concen: 65.582 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		502623		
128	42.4	32.8	49.2		
54	41.4	36.9	55.3		





#31

Naphthalene

Concen: 3.210 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Instrument :

BNA_F

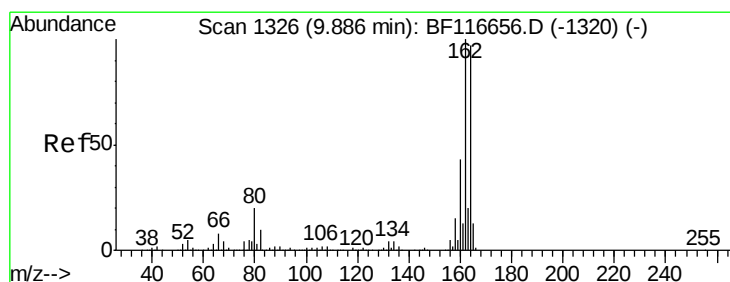
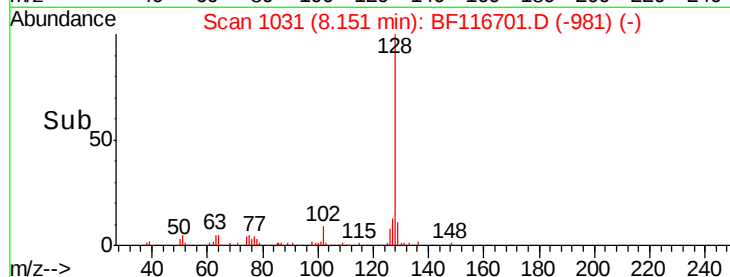
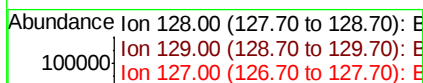
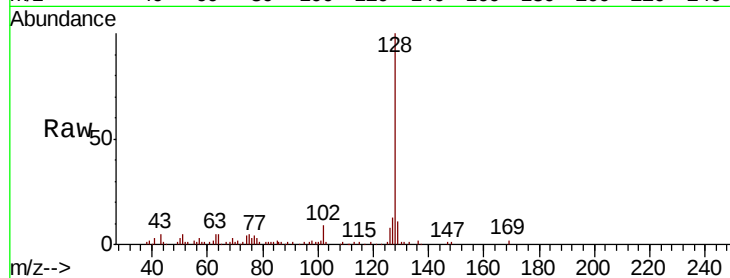
ClientSampleId :

T9-12-13-S1-S4-(0-1.9)

Tot Ion:	128	Resp:	66786
Ion Ratio	Lower	Upper	
128	100		
129	11.4	8.6	13.0
127	13.3	10.4	15.6

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#39

Acenaphthene-d10

Concen: 20.000 ng

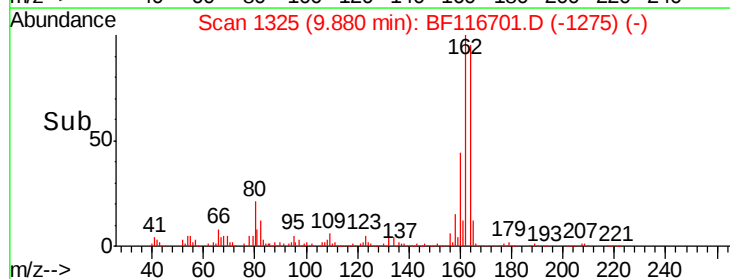
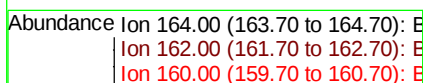
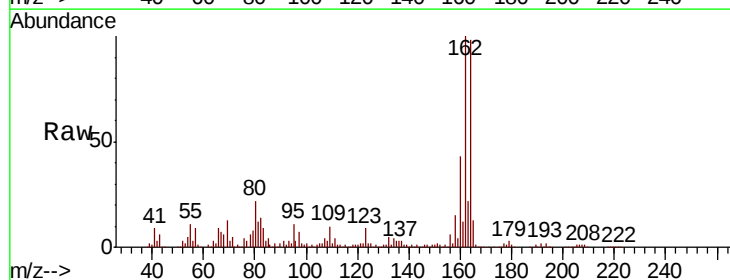
RT: 9.88 min Scan# 1325

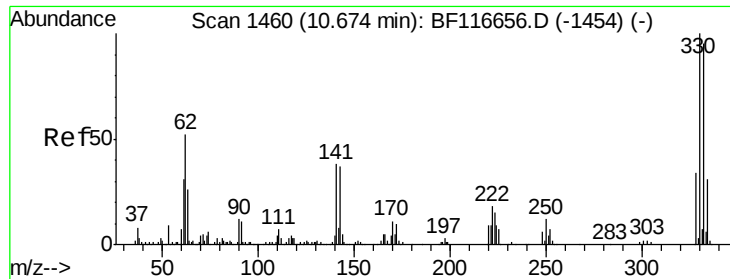
Delta R.T. -0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Tgt Ion:	164	Resp:	213728
Ion Ratio	Lower	Upper	
164	100		
162	102.3	81.4	122.0
160	44.3	35.4	53.2





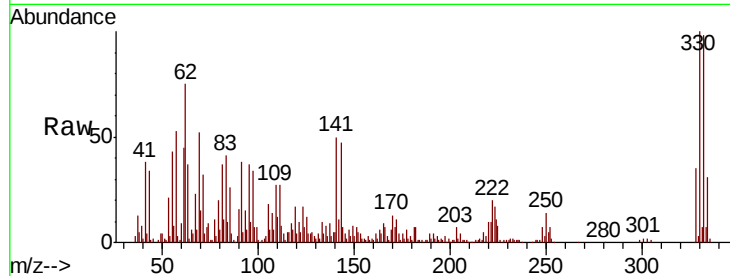
#42
 2,4,6-Tribromophenol
 Concen: 94.218 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF116701.D
 Acq: 31 Aug 2019 16:06

Instrument :
 BNA_F
 ClientSampleId :
 T9-12-13-S1-S4-(0-1.9)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	134620		
332	97.0	76.9	115.3	
141	45.7	31.4	47.2	

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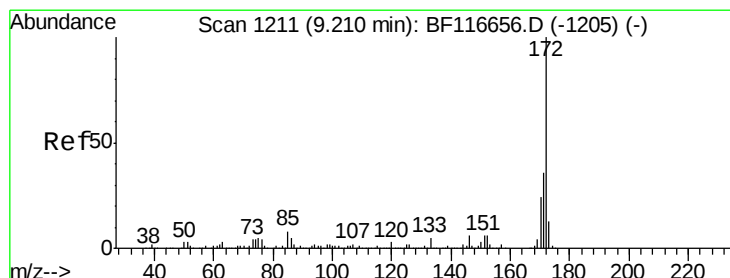
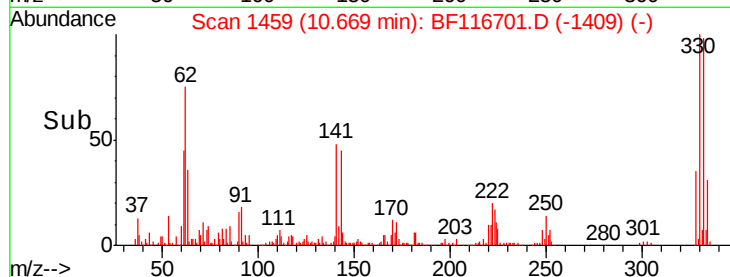
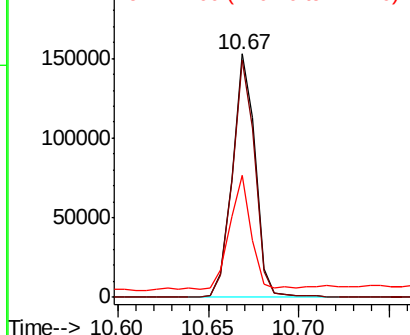


Abundance

Ion 329.80 (329.50 to 330.50): E

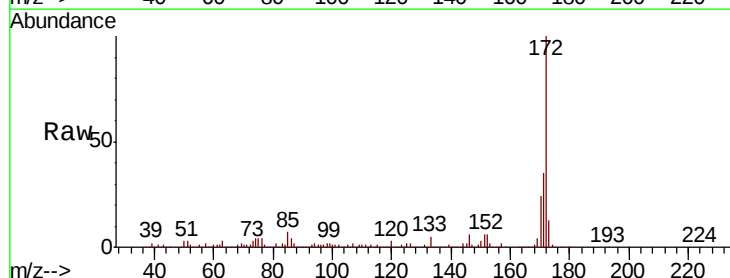
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 62.805 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: BF116701.D
 Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	795735		
171	35.4	27.8	41.6	
170	24.3	18.9	28.3	

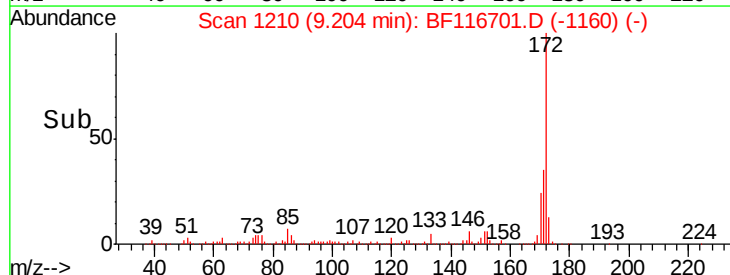
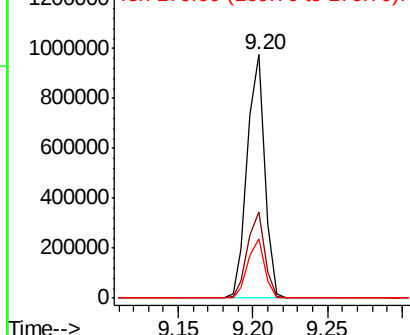


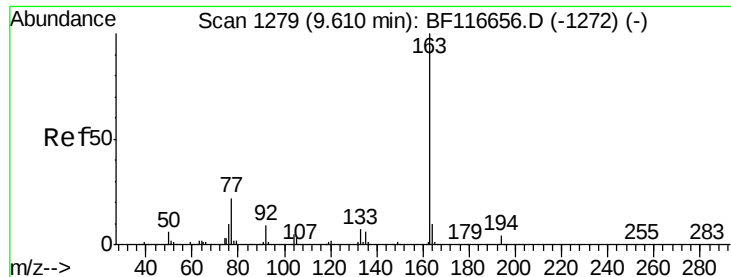
Abundance

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





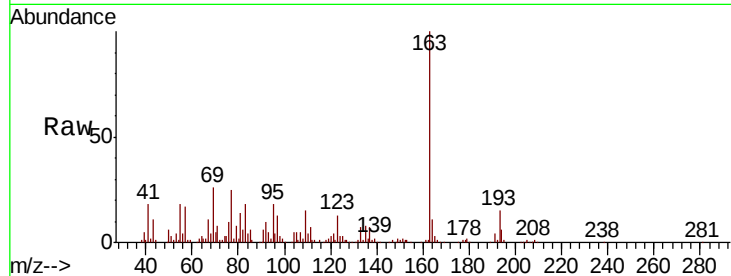
#50
Dimethylphthalate
Concen: 6.648 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Instrument :
BNA_F
ClientSampleId :
T9-12-13-S1-S4-(0-1.9)

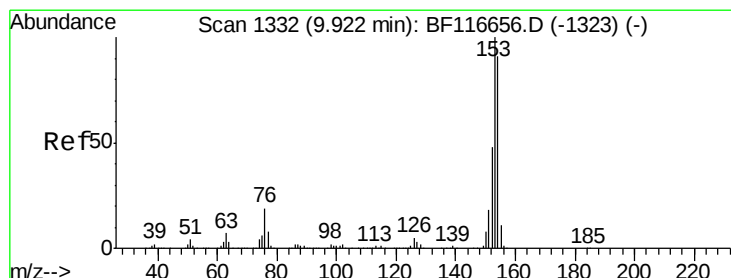
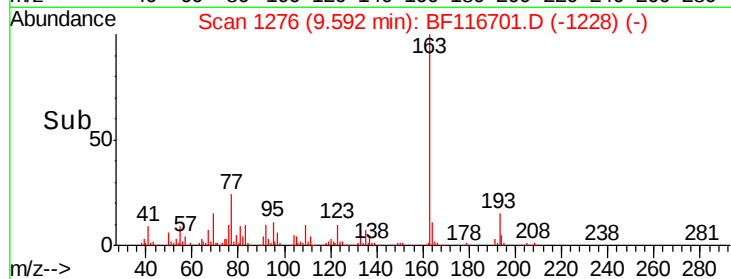
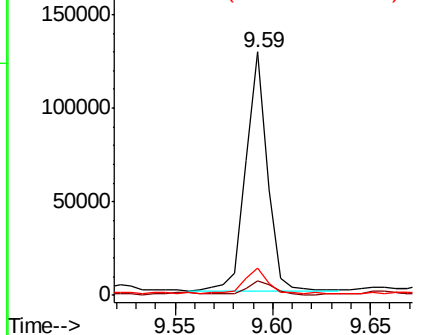
Tot Ion	Ratio	Resp	Lower	Upper
163	100	98102		
194	5.8		2.8	4.2#
164	11.3		8.6	12.8

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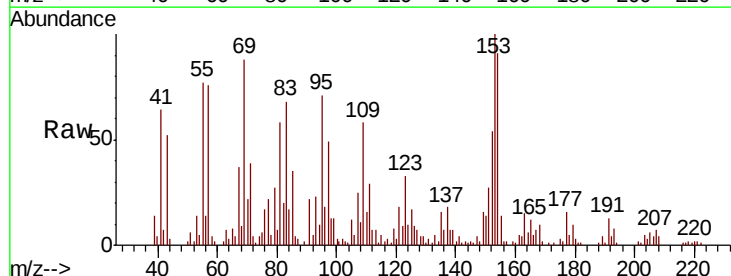


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

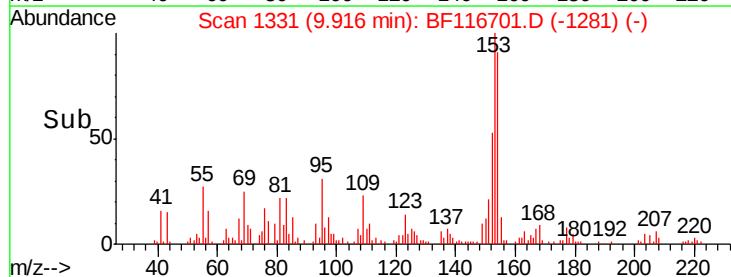
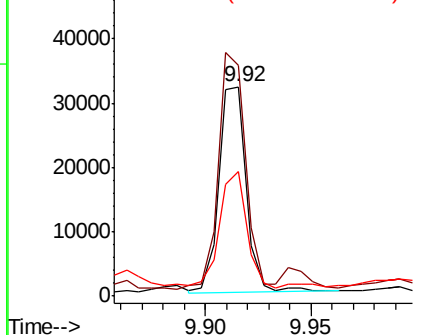


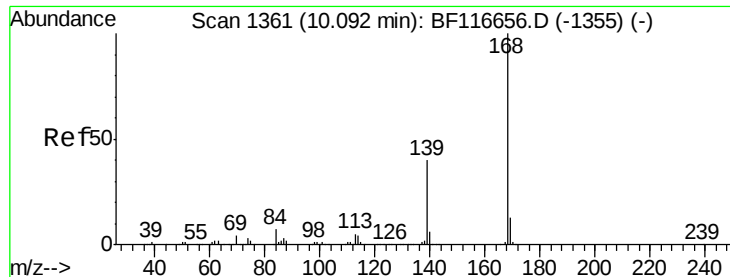
#52
Acenaphthene
Concen: 2.395 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	28569		
153	110.3		89.5	134.3
152	59.5		41.9	62.9



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#55

Dibenzofuran

Concen: 2.356 ng

RT: 10.09 min Scan# 1360

Delta R.T. -0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Instrument :

BNA_F

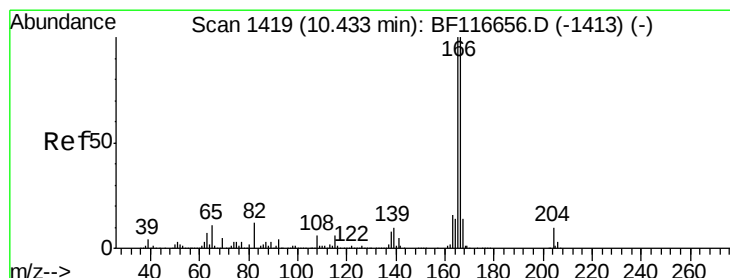
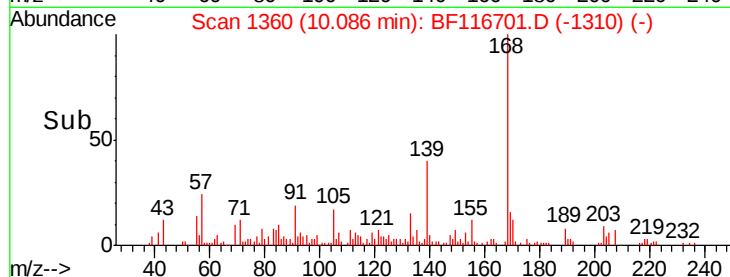
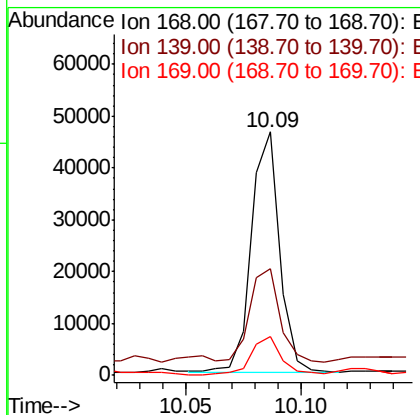
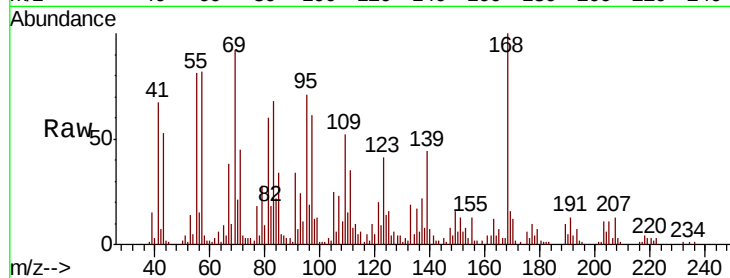
ClientSampleId :

T9-12-13-S1-S4-(0-1.9)

Tot Ion:	168	Resp:	39621
Ion Ratio	Lower	Upper	
168	100		
139	43.8	31.5	47.3
169	15.8	10.3	15.5#

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#58

Fluorene

Concen: 2.159 ng

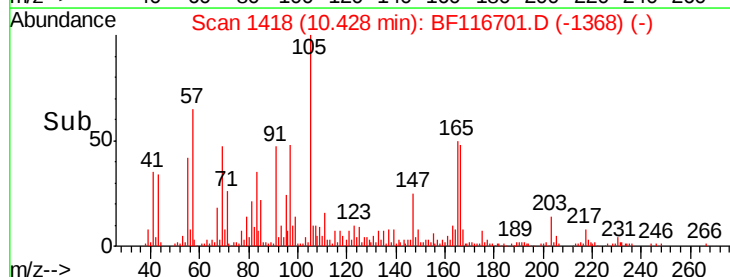
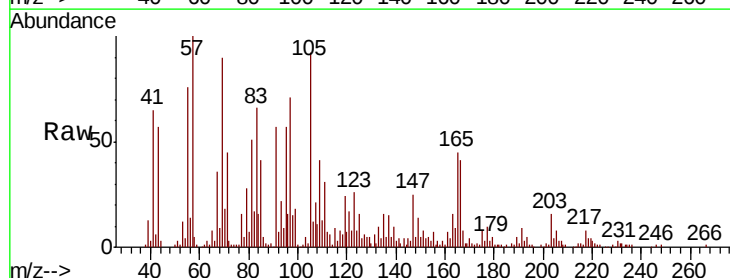
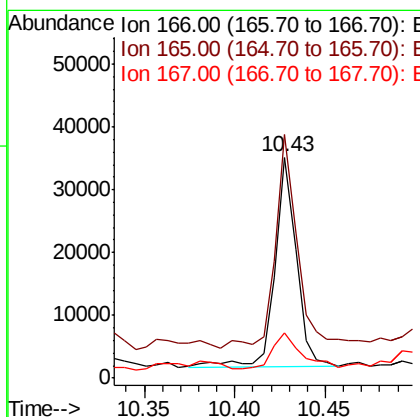
RT: 10.43 min Scan# 1418

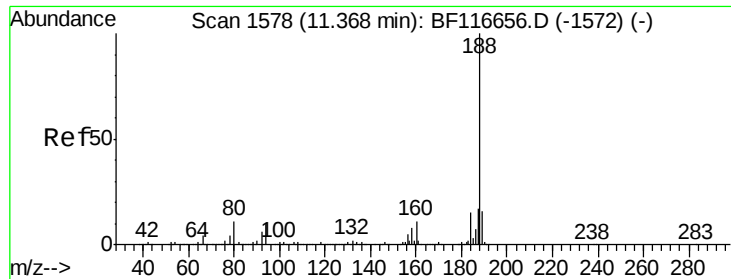
Delta R.T. -0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Tgt Ion:	166	Resp:	27673
Ion Ratio	Lower	Upper	
166	100		
165	110.2	78.8	118.2
167	20.5	10.0	15.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1578

Delta R.T. 0.00 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Instrument :

BNA_F

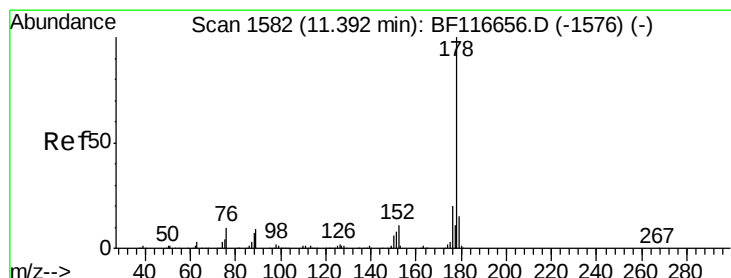
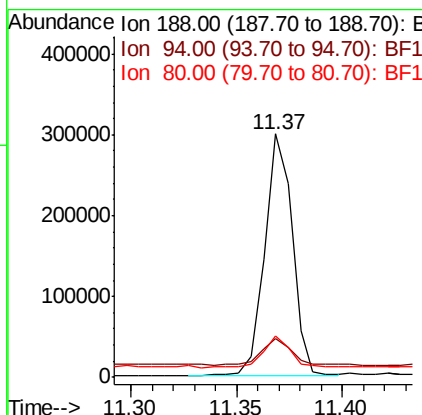
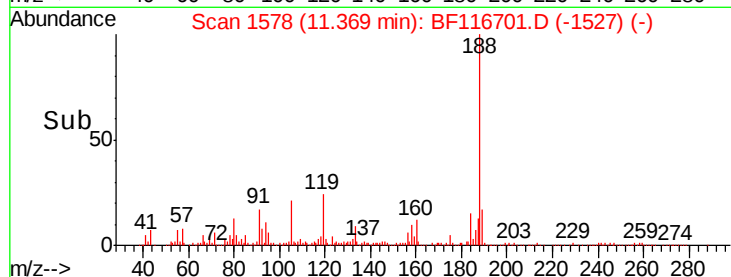
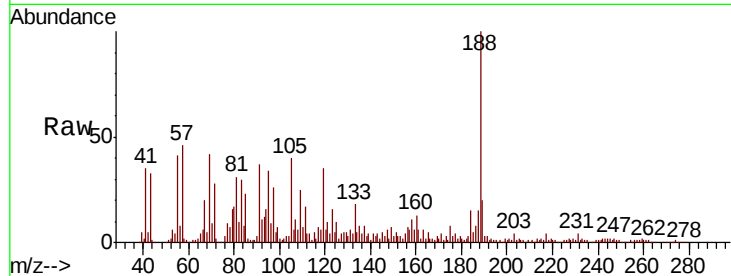
ClientSampleId :

T9-12-13-S1-S4-(0-1.9)

Tot Ion:	188	Resp:	271114
Ion Ratio	Lower	Upper	
188	100		
94	15.9	7.3	10.9#
80	16.8	8.4	12.6#

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#71

Phenanthrene

Concen: 16.304 ng

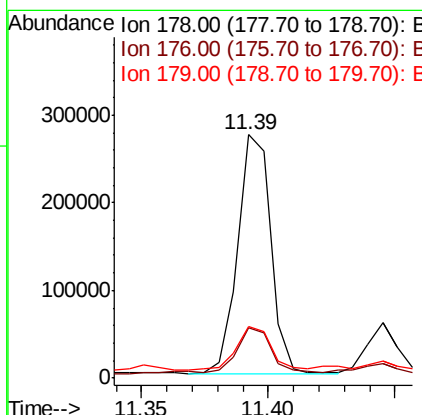
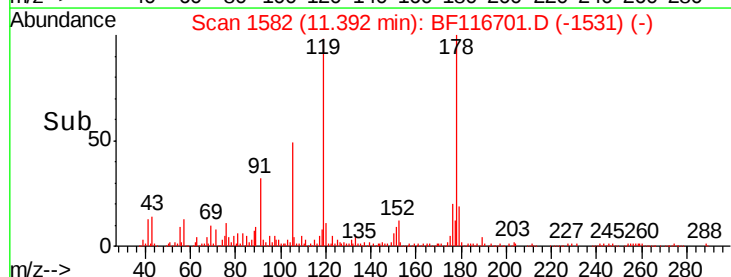
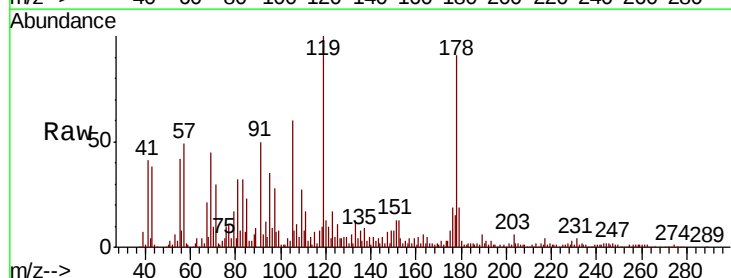
RT: 11.39 min Scan# 1582

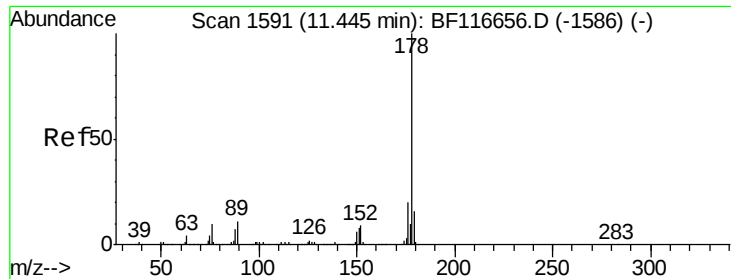
Delta R.T. 0.00 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Tgt Ion:	178	Resp:	246061
Ion Ratio	Lower	Upper	
178	100		
176	20.8	15.4	23.0
179	21.2	12.2	18.2#





#72

Anthracene

Concen: 3.006 ng

RT: 11.45 min Scan# 1591

Delta R.T. 0.00 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Instrument :

BNA_F

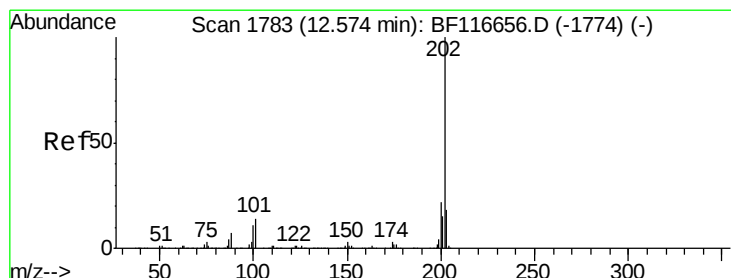
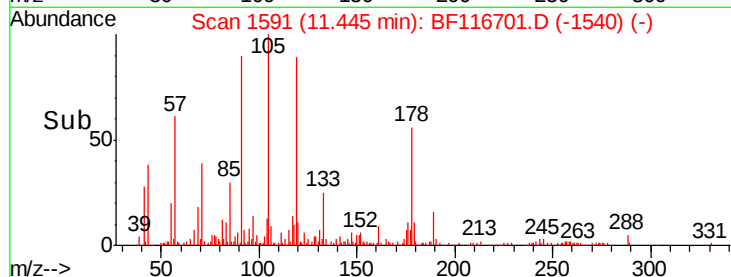
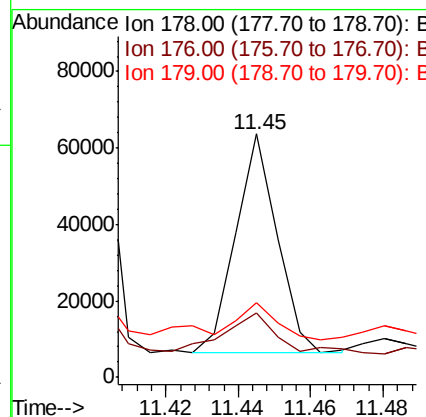
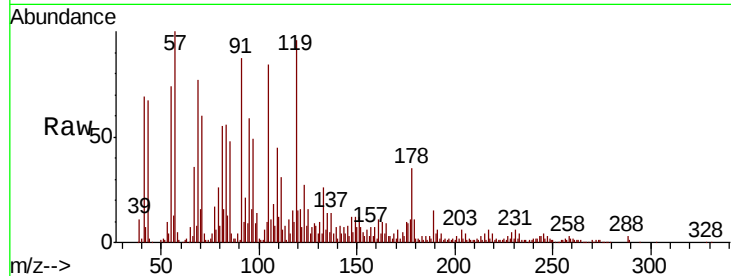
ClientSampleId :

T9-12-13-S1-S4-(0-1.9)

Tot Ion	Ratio	Lower	Upper
178	100		
176	26.5	15.4	23.0#
179	30.6	12.5	18.7#

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#75

Fluoranthene

Concen: 25.702 ng

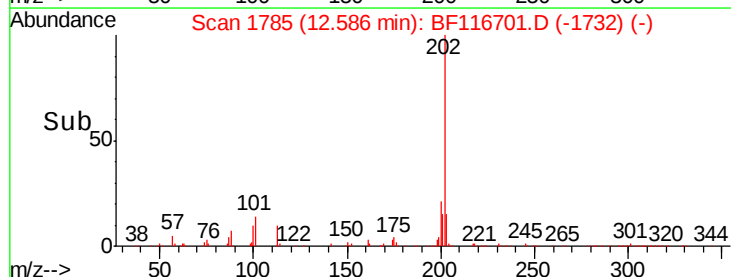
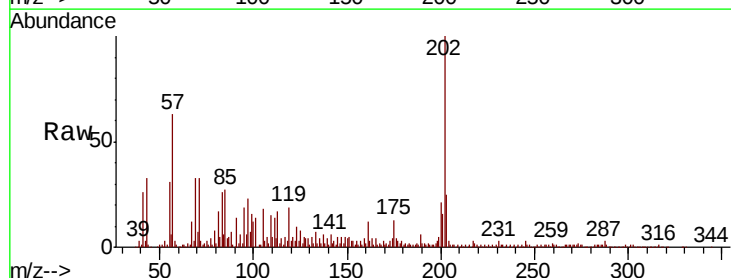
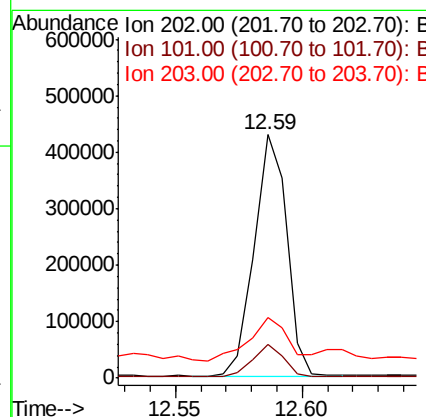
RT: 12.59 min Scan# 1785

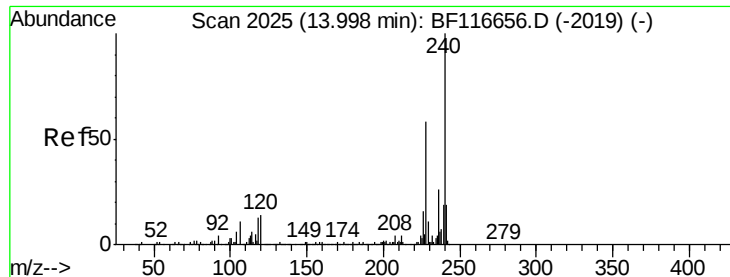
Delta R.T. 0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	31.3
203	24.9	0.0	37.6





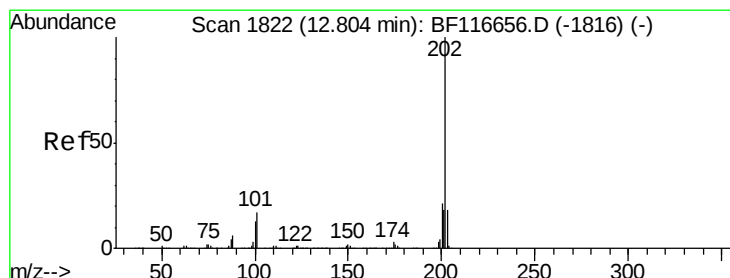
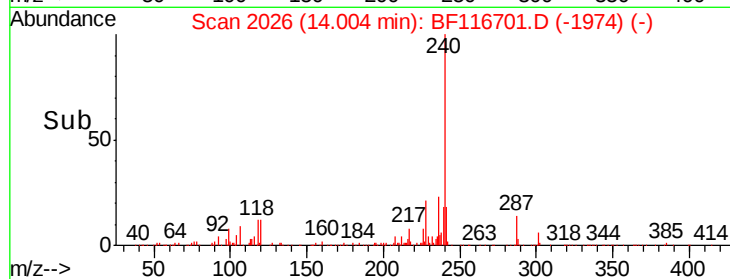
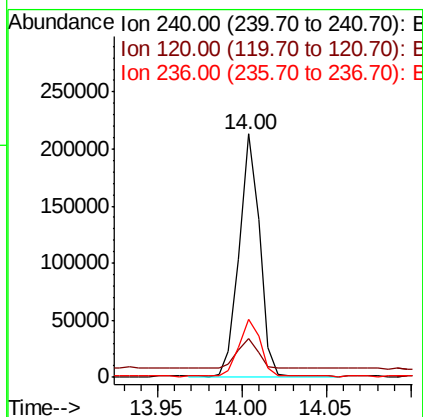
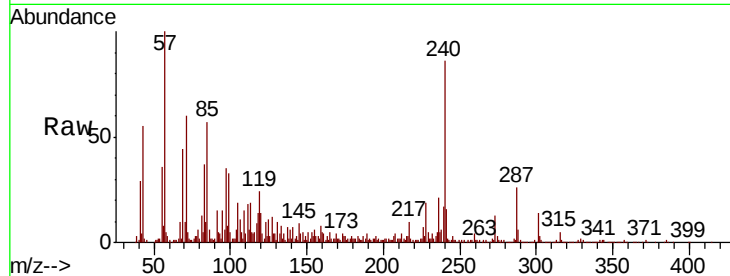
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. 0.01 min
 Lab File: BF116701.D
 Acq: 31 Aug 2019 16:06

Instrument :
 BNA_F
 ClientSampleId :
 T9-12-13-S1-S4-(0-1.9)

Tot Ion	Ratio	Lower	Upper
240	100		
120	16.0	9.1	13.7#
236	24.0	21.1	31.7

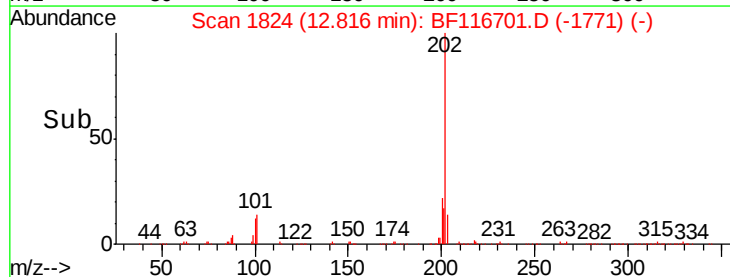
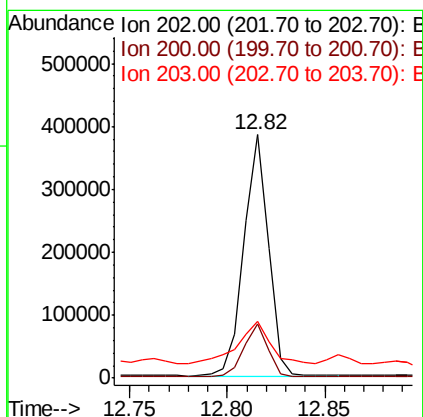
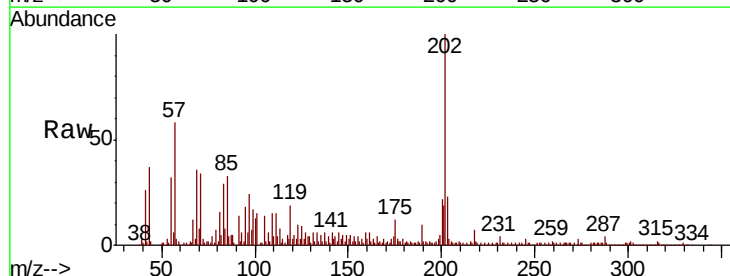
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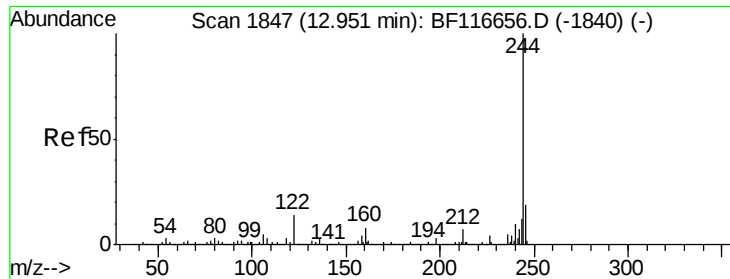
mohammad
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#78
 Pyrene
 Concen: 20.931 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. 0.01 min
 Lab File: BF116701.D
 Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	16.5	24.7
203	23.1	13.7	20.5#





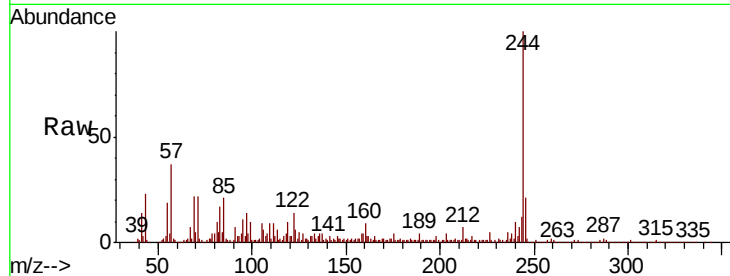
#79
 Terphenyl-d14
 Concen: 53.397 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. 0.01 min
 Lab File: BF116701.D
 Acq: 31 Aug 2019 16:06

Instrument :
 BNA_F
 ClientSampleId :
 T9-12-13-S1-S4-(0-1.9)

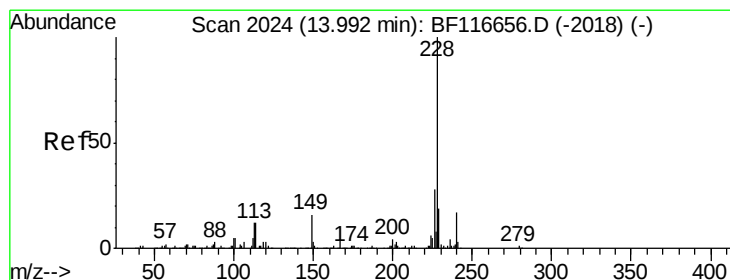
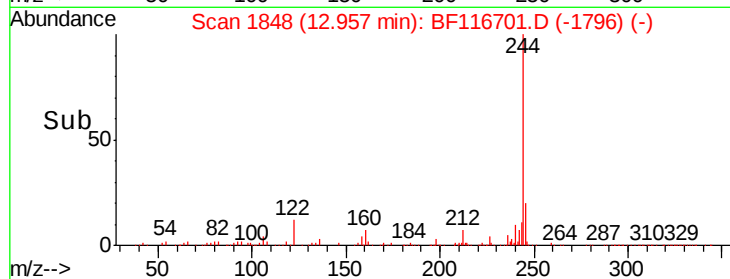
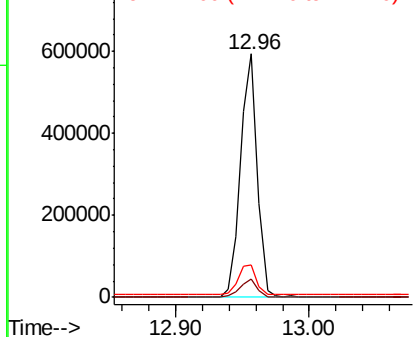
Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.4	6.1	9.1	
122	13.5	10.2	15.4	

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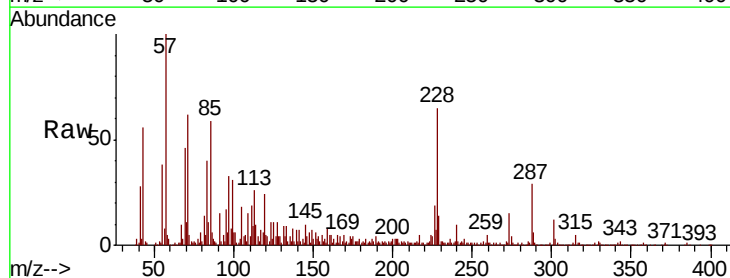


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

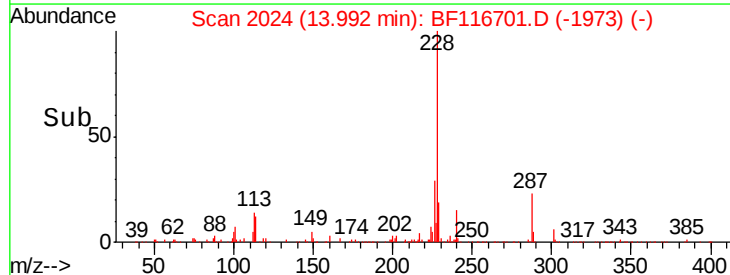
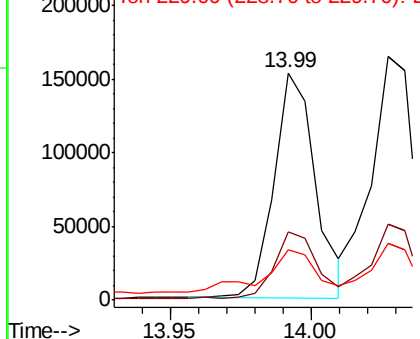


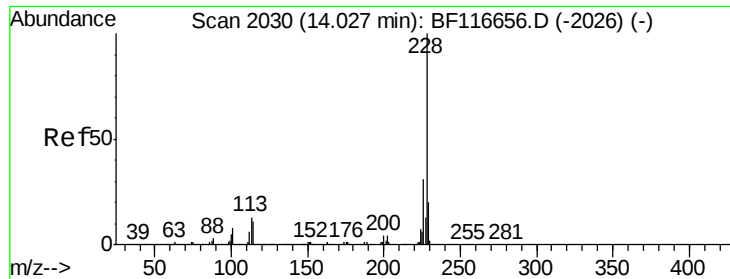
#81
 Benzo(a)anthracene
 Concen: 13.680 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. 0.00 min
 Lab File: BF116701.D
 Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	29.9	22.0	33.0	
229	22.0	16.4	24.6	



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: 14.269 ng/mL

RT: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Instrument :

BNA_F

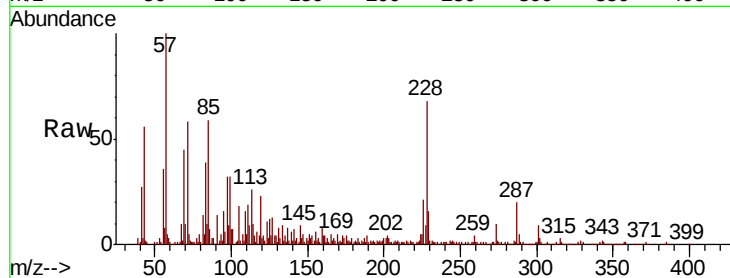
ClientSampleId :

T9-12-13-S1-S4-(0-1.9)

Tot Ion:	228	Resp:	166589
Ion Ratio	Lower	Upper	
228	100		
226	31.3	24.0	36.0
229	23.0	15.4	23.0

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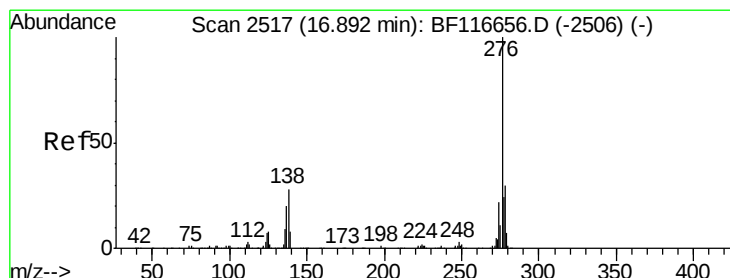
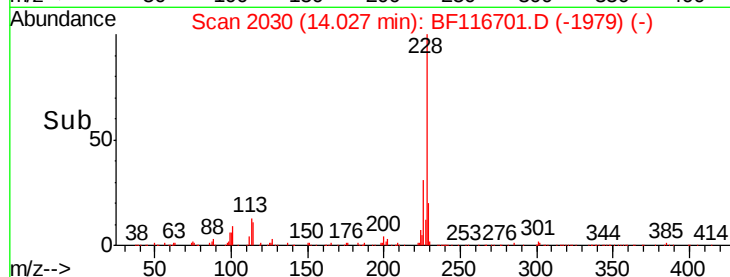
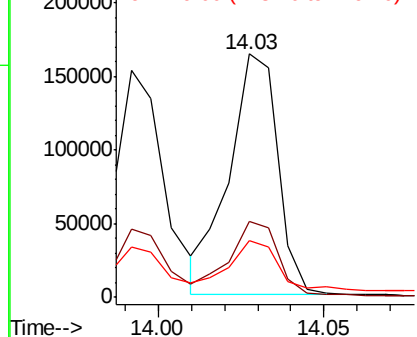


Abundance

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



#86

Indeno(1,2,3-cd)pyrene

Concen: 18.442 ng/mL

RT: 16.91 min Scan# 2520

Delta R.T. 0.02 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

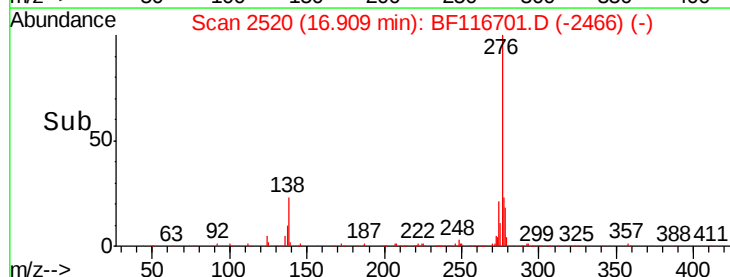
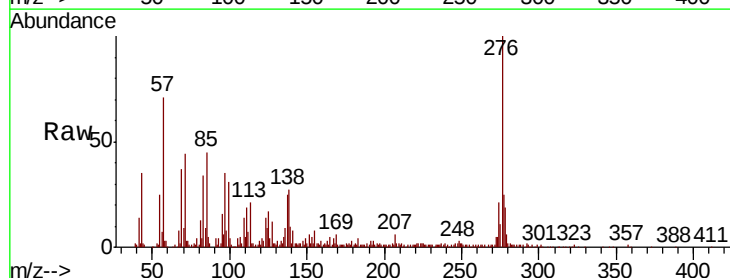
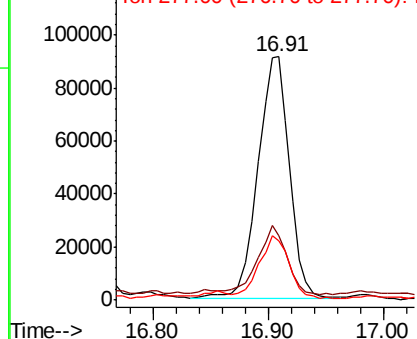
Tgt Ion:	276	Resp:	172935
Ion Ratio	Lower	Upper	
276	100		
138	25.9	19.4	29.2
277	24.6	20.5	30.7

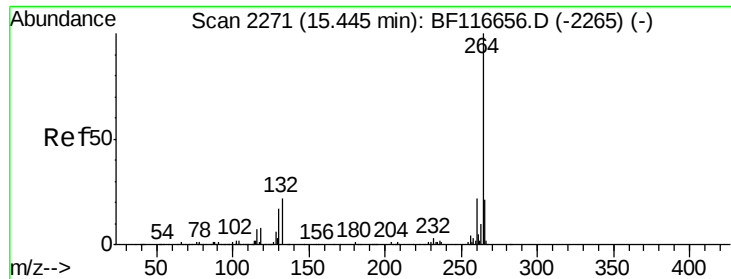
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.02 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Instrument :

BNA_F

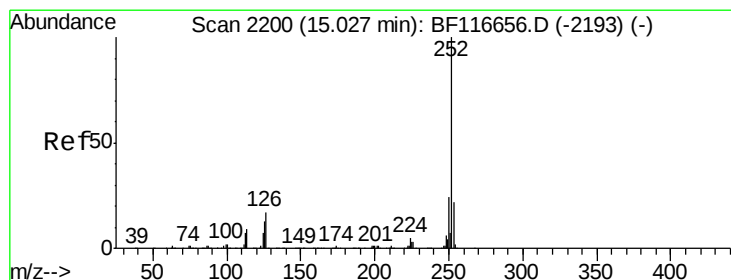
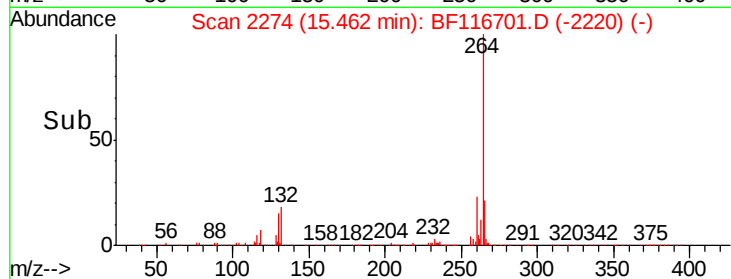
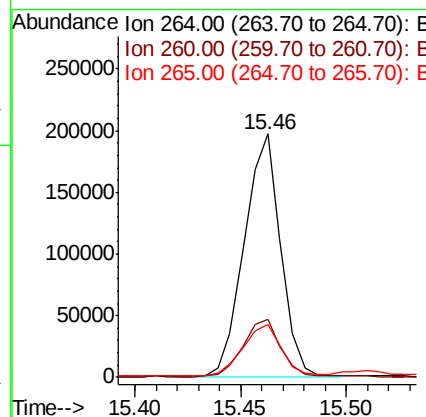
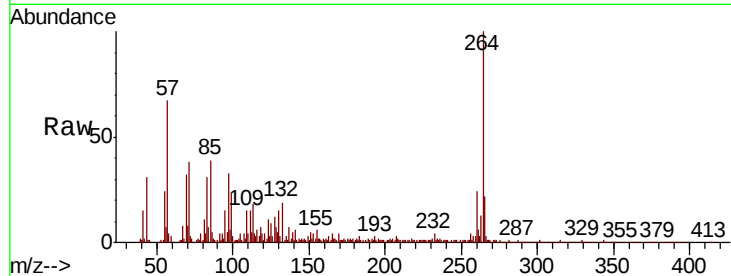
ClientSampleId :

T9-12-13-S1-S4-(0-1.9)

Tot Ion:	264	Resp:	234992
Ion Ratio	Lower	Upper	
264	100		
260	23.8	18.3	27.5
265	21.5	16.5	24.7

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#88

Benzo(b)fluoranthene

Concen: 21.565 ng m

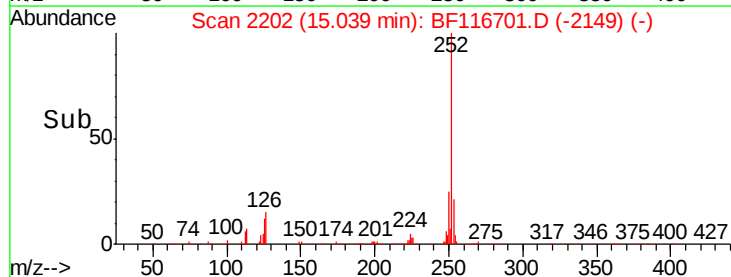
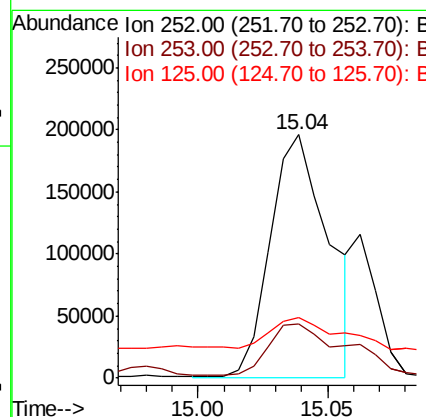
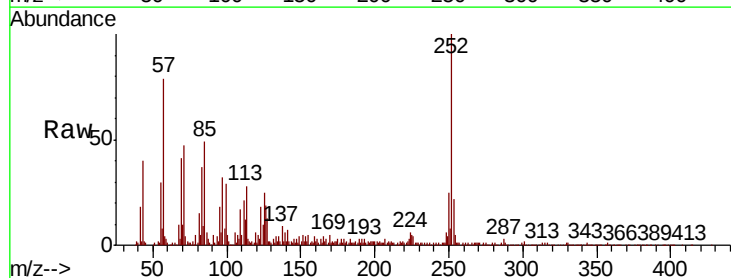
RT: 15.04 min Scan# 2202

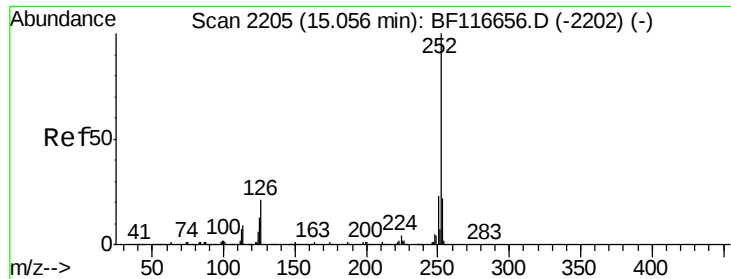
Delta R.T. 0.01 min

Lab File: BF116701.D

Acq: 31 Aug 2019 16:06

Tgt Ion:	252	Resp:	306377
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.7	26.5
125	25.0	8.2	12.2#





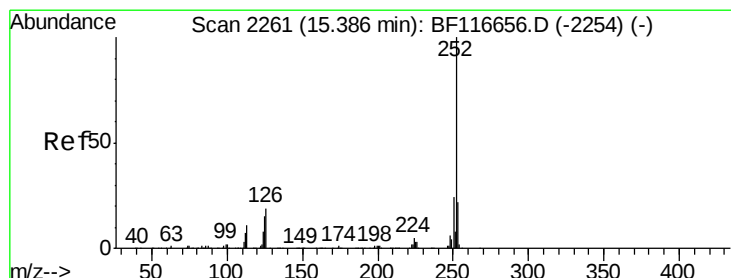
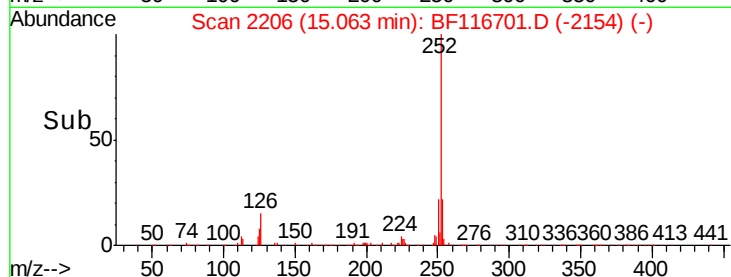
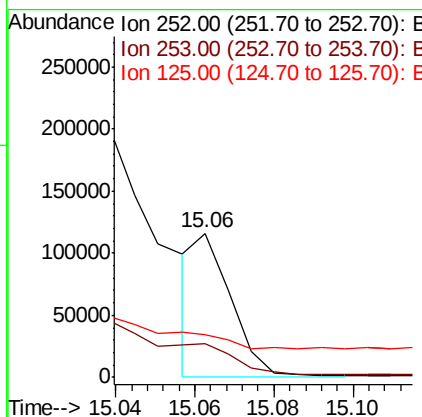
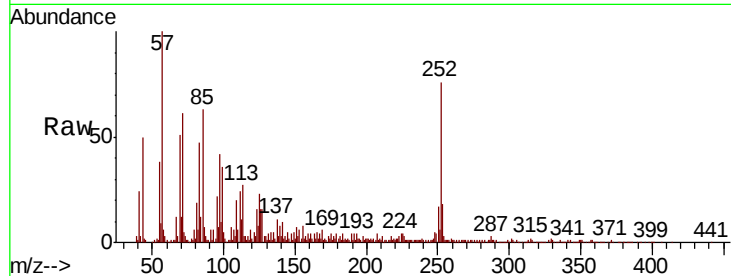
#89
Benzo(k)fluoranthene
Concen: 5.877 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Instrument :
BNA_F
ClientSampleId :
T9-12-13-S1-S4-(0-1.9)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.7	26.5
125	29.6	8.6	13.0

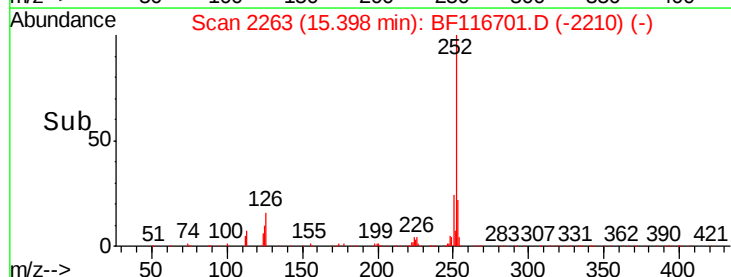
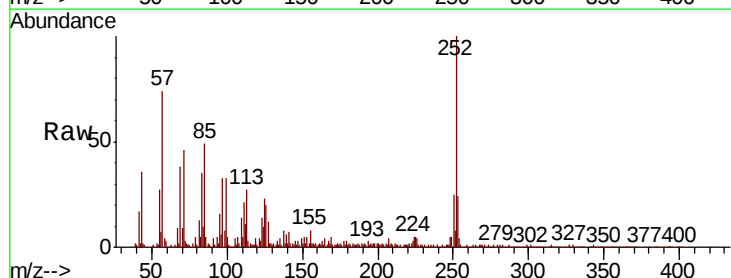
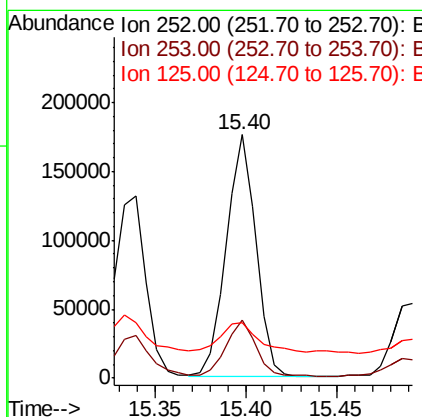
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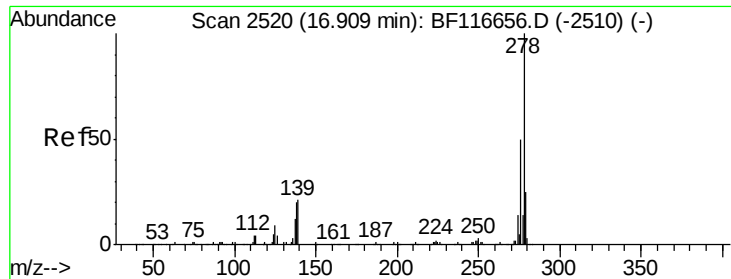
mohammad
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#90
Benzo(a)pyrene
Concen: 16.205 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	22.8	9.8	14.8





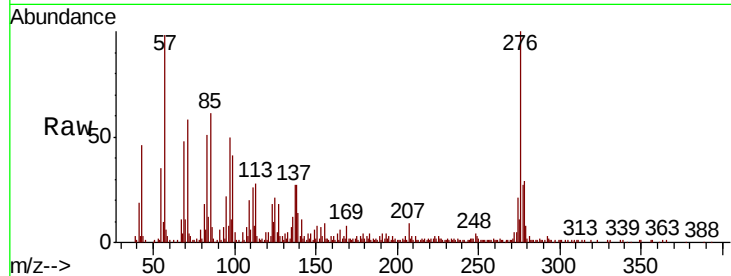
#91
Dibenzo(a,h)anthracene
Concen: 3.352 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.01 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Instrument :
BNA_F
ClientSampleId :
T9-12-13-S1-S4-(0-1.9)

Tot Ion	Ratio	Lower	Upper
278	100		
139	50.2	12.4	18.6#
279	27.4	18.2	27.4#

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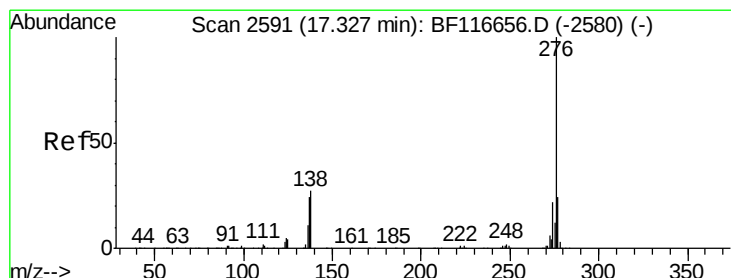
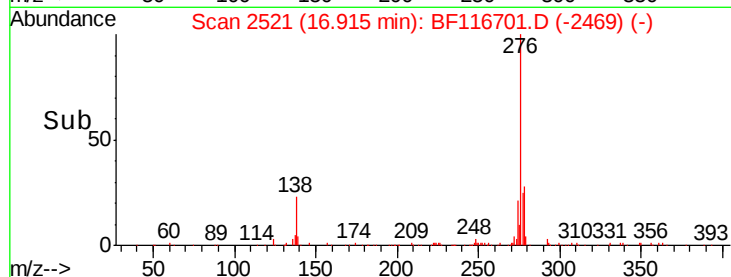
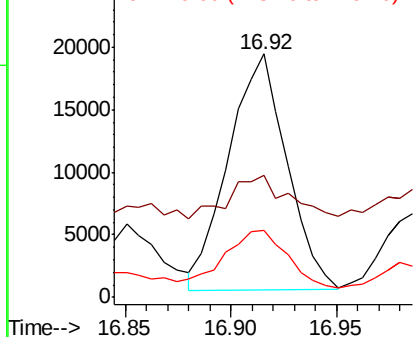


Abundance

Ion 278.00 (277.70 to 278.70): E

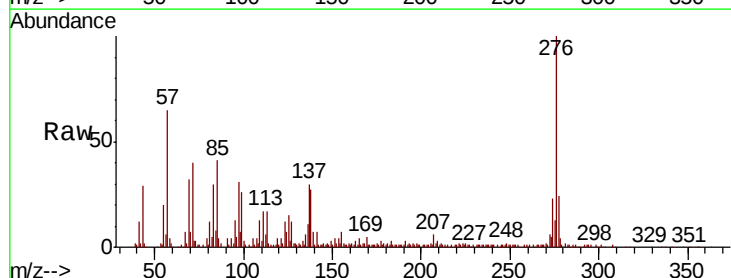
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 16.435 ng
RT: 17.34 min Scan# 2594
Delta R.T. 0.02 min
Lab File: BF116701.D
Acq: 31 Aug 2019 16:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.5	27.7
138	27.0	16.2	24.2#



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

