

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
 Data File : BF101100.D
 Acq On : 4 Dec 2017 16:15
 Operator : SJ/JU
 Sample : I6696-02 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(1-2)

Manual Integrations
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 12/5/2017 3:24:28 PM

Quant Time: Dec 04 17:26:34 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	47240	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	186384	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	82572	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	136073	20.00	ng	0.00
75) Chrysene-d12	14.03	240	102572	20.00	ng	0.00
86) Perylene-d12	15.50	264	96418	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	61587	21.54	ng	0.00
7) Phenol-d6	6.47	99	73823	21.27	ng	0.00
23) Nitrobenzene-d5	7.41	82	42787	13.69	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	15991	16.12	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	71263	11.81	ng	0.00
78) Terphenyl-d14	12.96	244	48812	10.41	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.15	128	172828	18.81	ng	99
37) 2-Methylnaphthalene	8.85	142	18926	3.03	ng	94
45) 1,1'-Biphenyl	9.30	154	53951	7.13	ng	97
48) Acenaphthylene	9.75	152	67720	7.67	ng	98
51) Acenaphthene	9.93	154	375907	71.10	ng	98
54) Dibenzofuran	10.09	168	33317	4.37	ng	# 96
57) Fluorene	10.44	166	208457	33.66	ng	98
70) Phenanthrene	11.42	178	1292540	172.49	ng	99
71) Anthracene	11.46	178	447508	59.01	ng	98
74) Fluoranthene	12.60	202	726380	87.45	ng	96
77) Pyrene	12.83	202	881685	124.57	ng	99
80) Benzo(a)anthracene	14.02	228	337629m	52.13	ng	
82) Chrysene	14.05	228	262857	43.70	ng	100
85) Indeno(1,2,3-cd)pyrene	16.99	276	98149	18.36	ng	# 88
87) Benzo(b)fluoranthene	15.07	252	275390m	47.69	ng	
88) Benzo(k)fluoranthene	15.10	252	106452m	18.71	ng	
89) Benzo(a)pyrene	15.44	252	268736	51.18	ng	97
90) Dibenzo(a,h)anthracene	16.99	278	24035m	5.19	ng	
91) Benzo(a,h,i)perylene	17.43	276	97021m	22.24	ng	

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

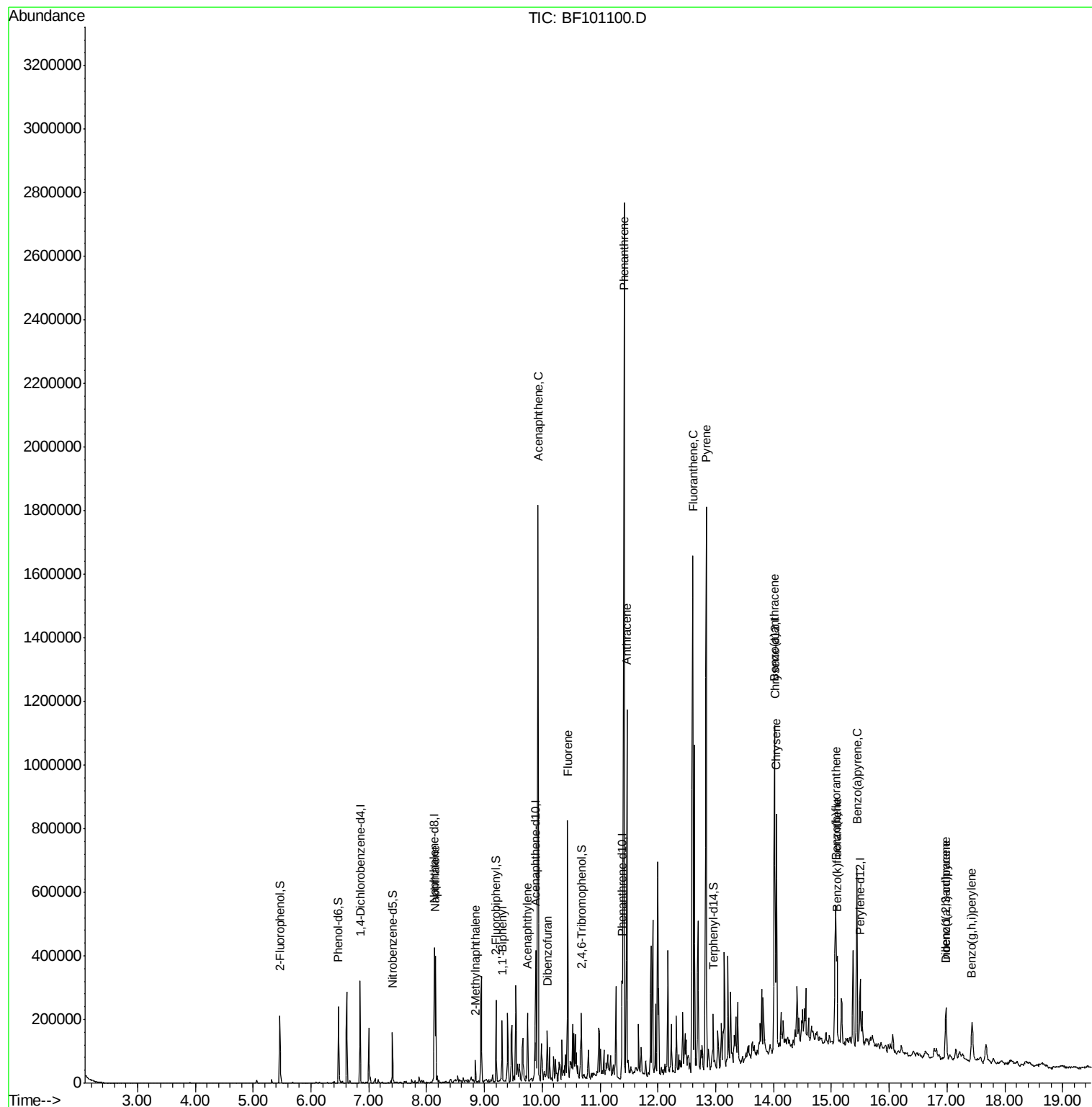
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
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ALS Vial : 16 Sample Multiplier: 1

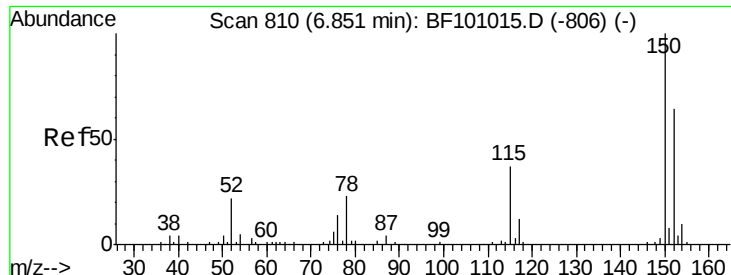
Instrument :
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CS-TP102-B(1-2)

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#1

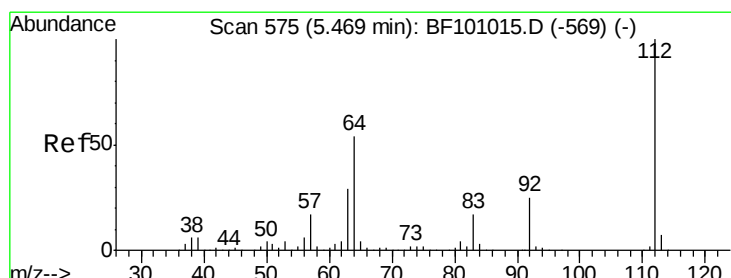
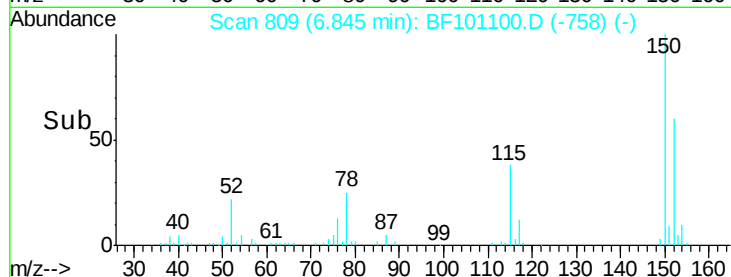
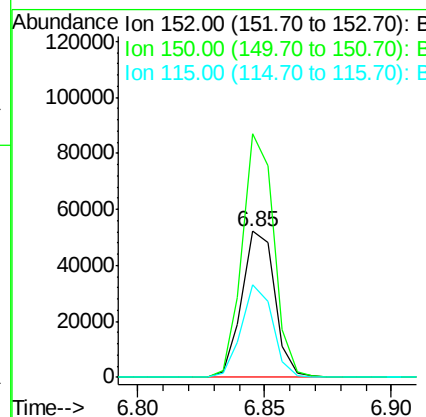
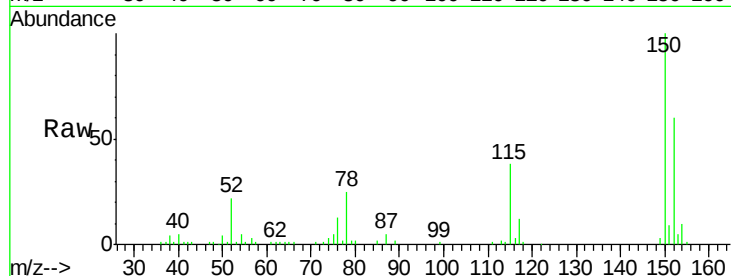
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(1-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	167.1	124.6	186.8
115	63.9	50.1	75.1

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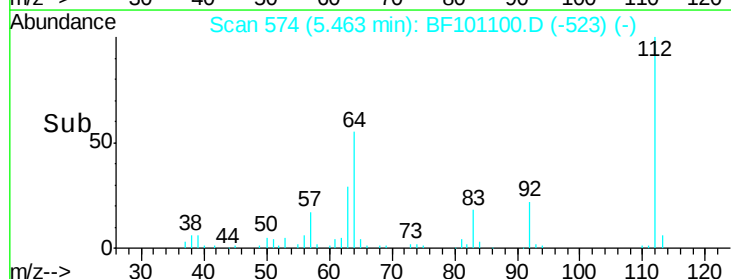
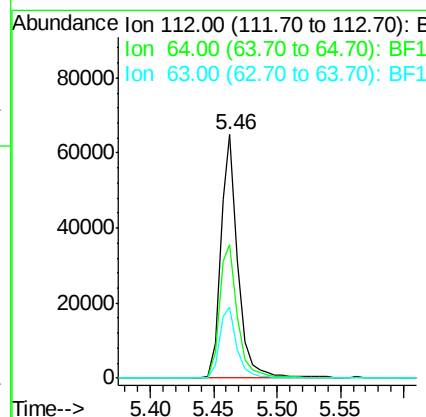
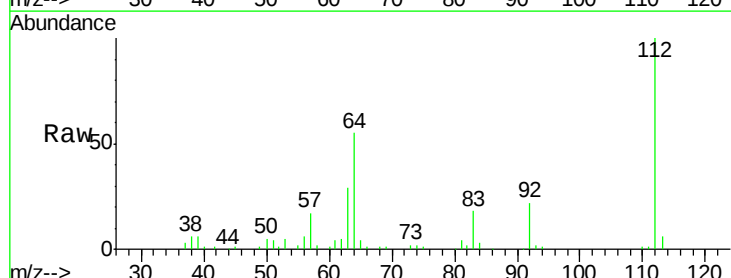
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#5

2-Fluorophenol
Concen: 21.54 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	47.9	71.9
63	29.3	23.7	35.5





#7

Phenol-d6

Concen: 21.27 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Instrument :

BNA_F

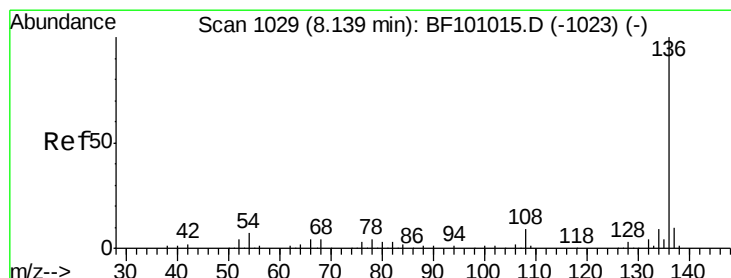
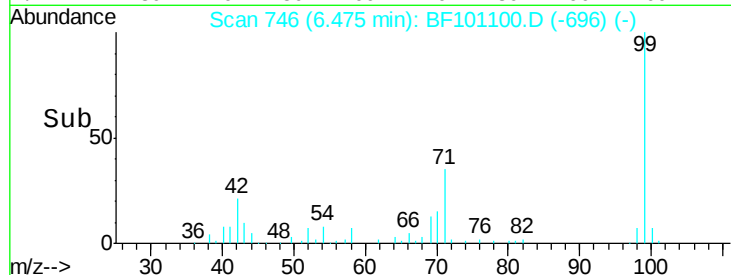
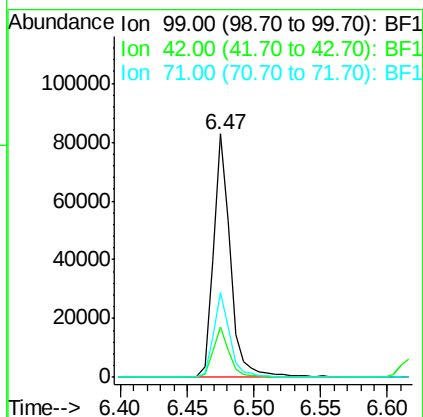
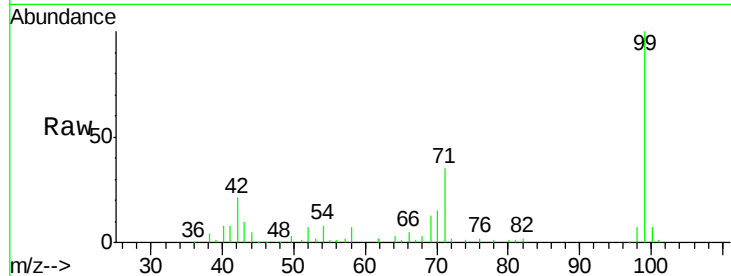
ClientSampleId :

CS-TP102-B(1-2)

Tot Ion:	99	Resp:	73823
Ion	Ratio	Lower	Upper
99	100		
42	20.7	14.5	21.7
71	34.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.00 ng

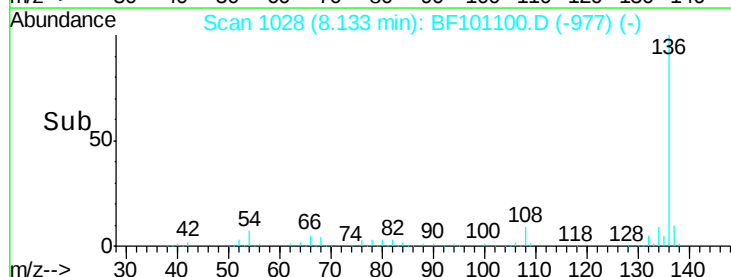
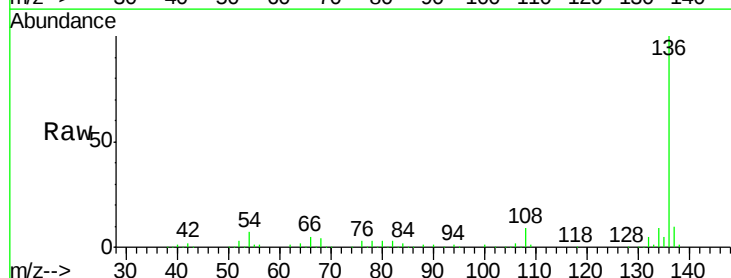
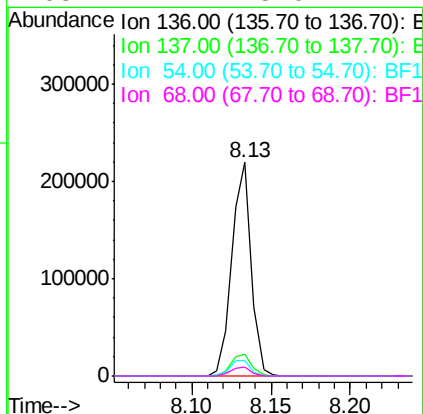
RT: 8.13 min Scan# 1028

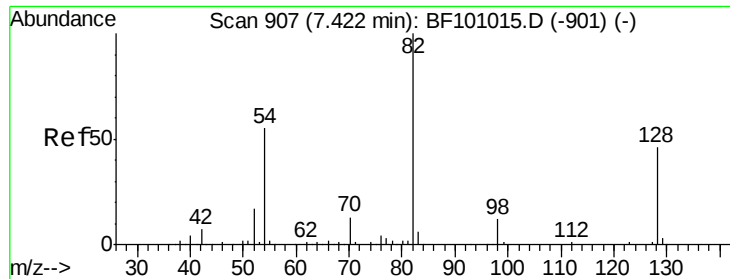
Delta R.T. 0.00 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Tgt Ion:	136	Resp:	186384
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.9	13.3
54	7.1	6.6	9.8
68	4.4	5.0	7.4#





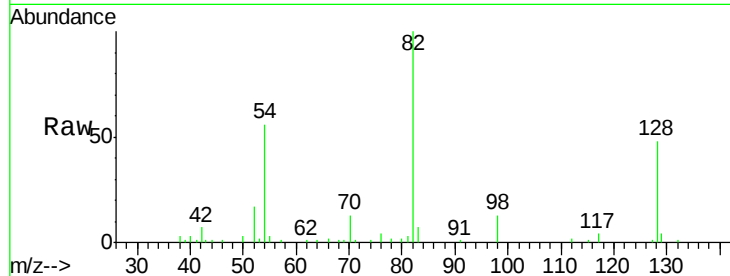
#23
Nitrobenzene-d5
Concen: 13.69 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(1-2)

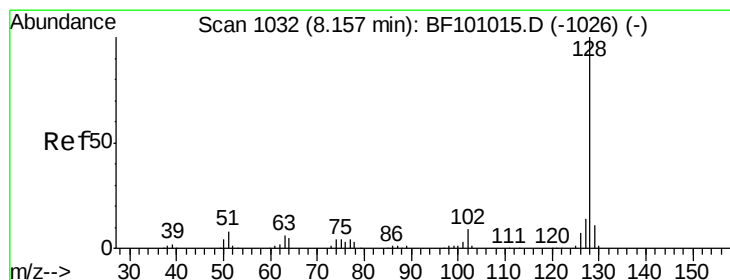
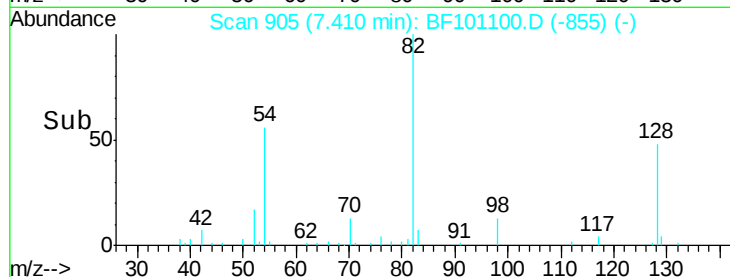
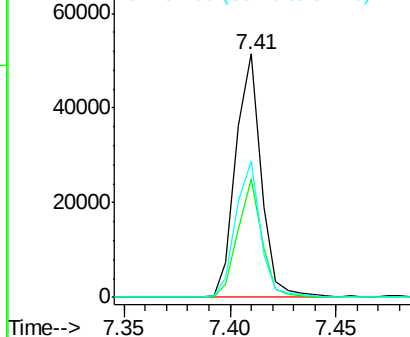
Tot Ion	Ratio	Lower	Upper
82	100		
128	48.5	36.1	54.1
54	55.9	41.4	62.2

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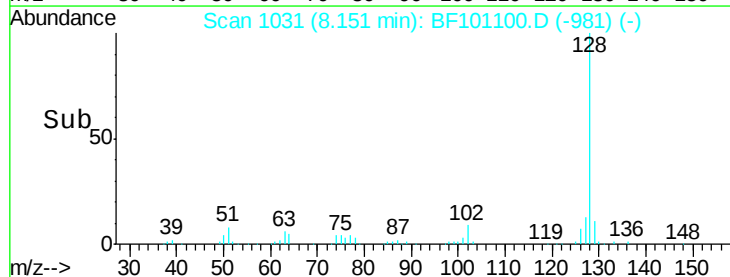
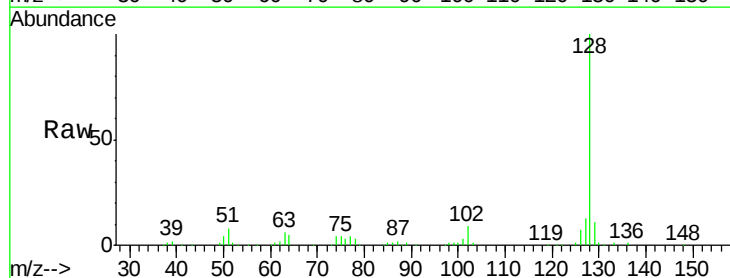
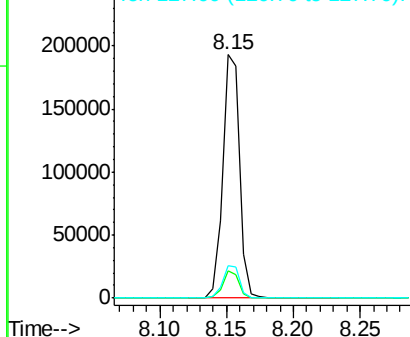
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Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

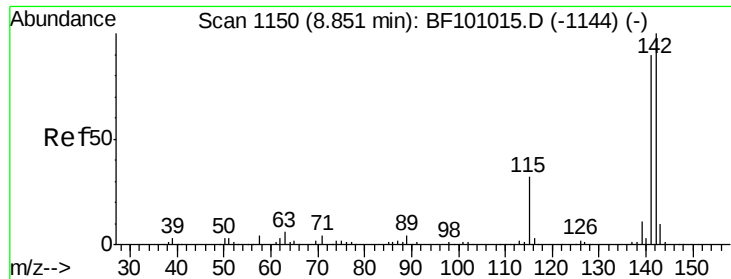


#31
Naphthalene
Concen: 18.81 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.2	10.9	16.3

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





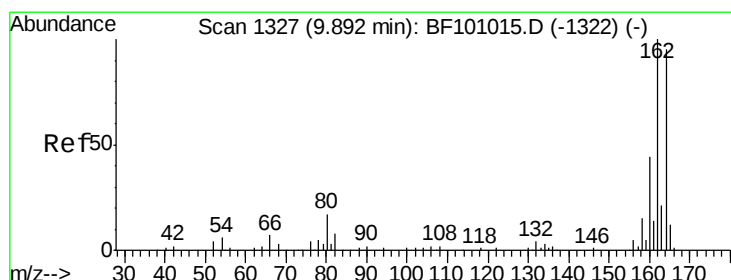
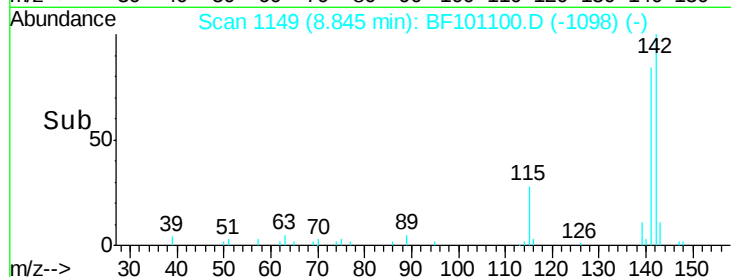
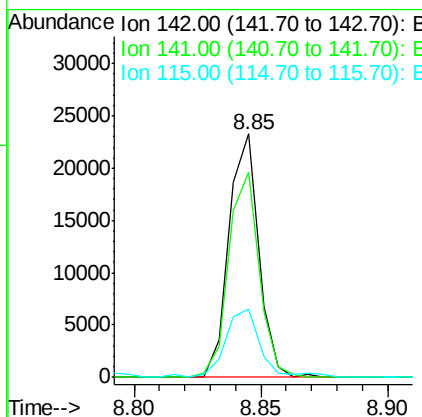
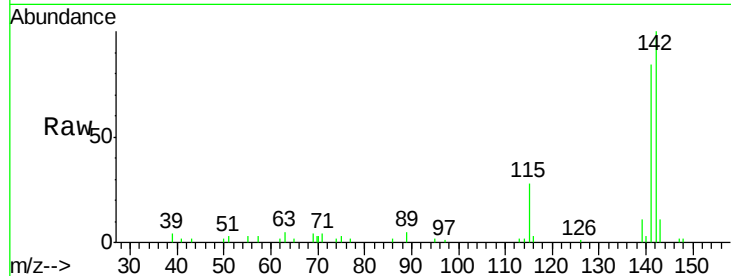
#37
2-Methylnaphthalene
Concen: 3.03 ng
RT: 8.85 min Scan# 1149
Delta R.T. 0.00 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(1-2)

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.2	70.8	106.2
115	27.8	26.1	39.1

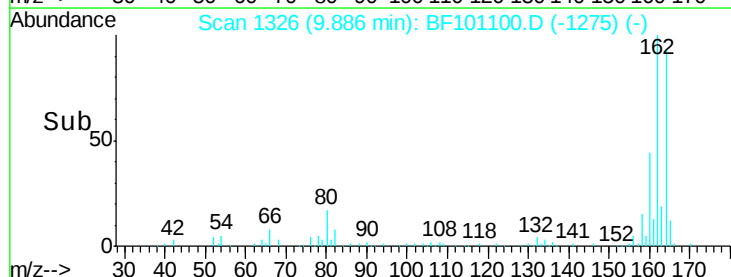
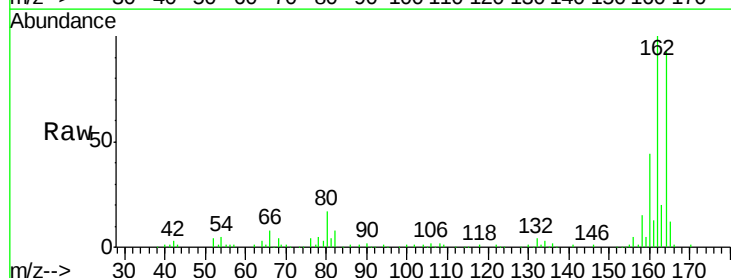
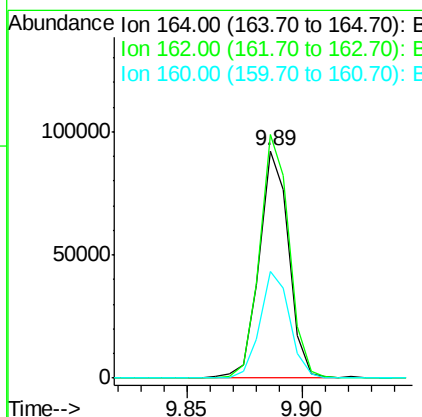
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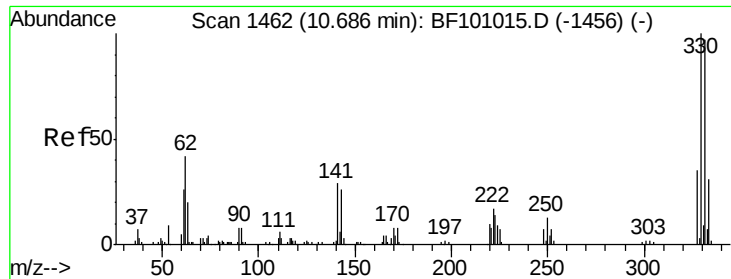
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.00 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	86.1	129.1
160	47.2	38.3	57.5





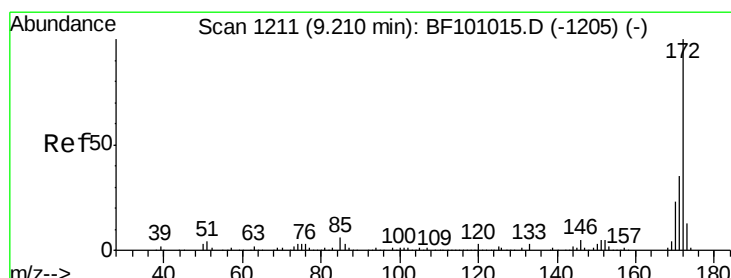
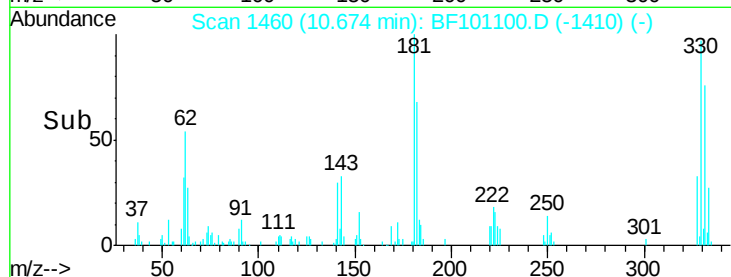
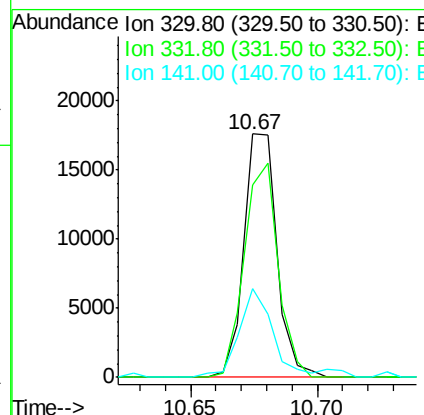
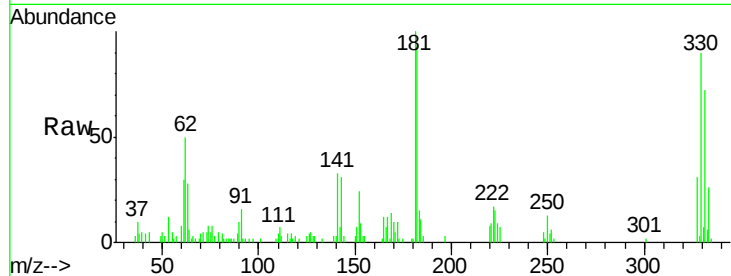
#41
 2,4,6-Tribromophenol
 Concen: 16.12 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF101100.D
 Acq: 4 Dec 2017 16:15

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(1-2)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	15991		
332	89.9		77.0	115.6
141	39.4		29.9	44.9

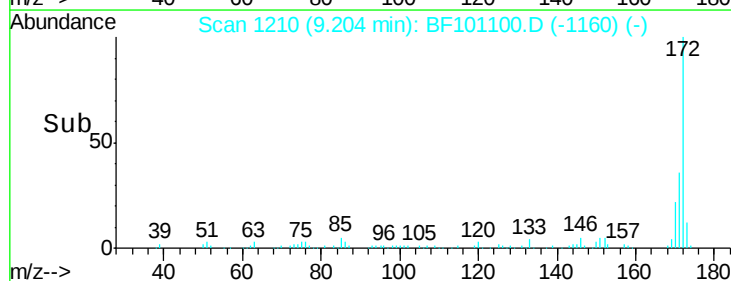
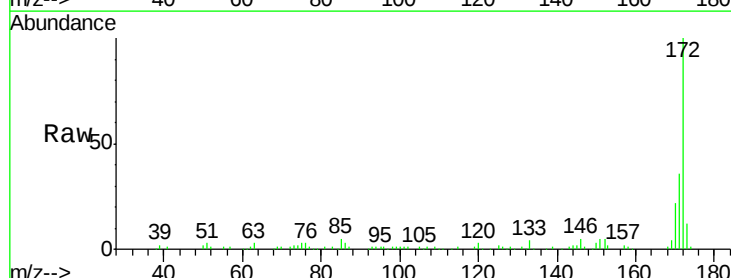
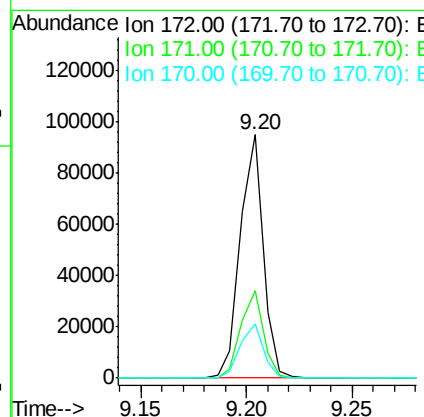
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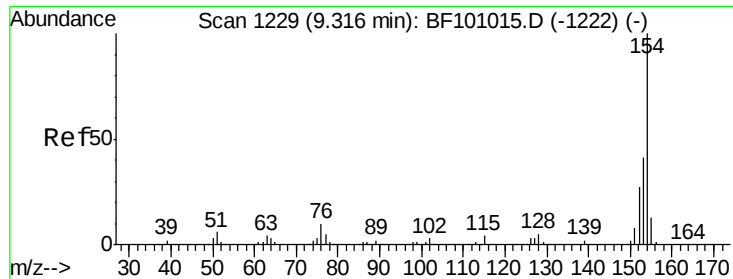
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#44
 2-Fluorobiphenyl
 Concen: 11.81 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF101100.D
 Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	71263		
171	36.0		29.7	44.5
170	22.4		19.6	29.4





#45

1,1'-Biphenyl

Concen: 7.13 ng

RT: 9.30 min Scan# 1227

Delta R.T. -0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Instrument :

BNA_F

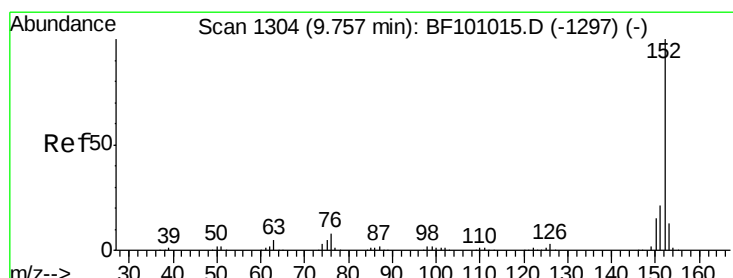
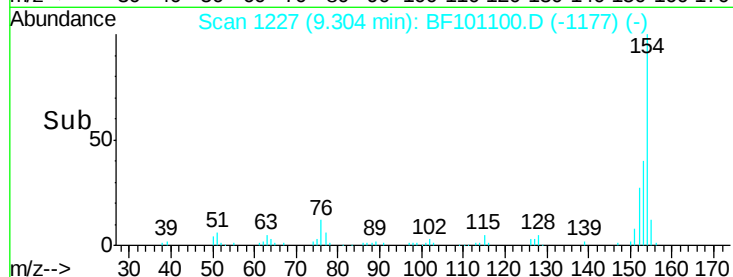
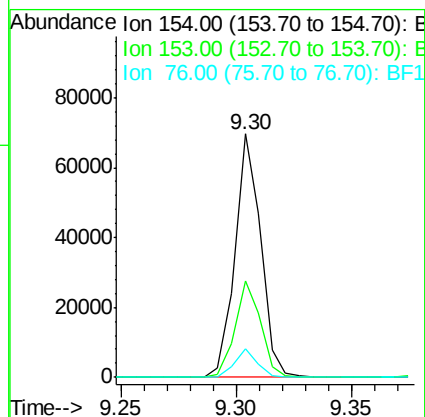
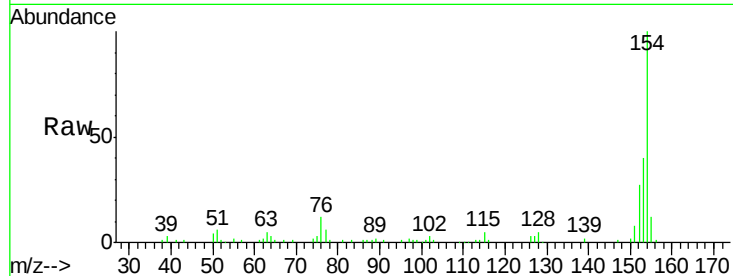
ClientSampleId :

CS-TP102-B(1-2)

Tot Ion:	154	Resp:	53951
Ion Ratio	Lower	Upper	
154	100		
153	39.6	21.3	61.3
76	11.9	0.0	34.0

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#48

Acenaphthylene

Concen: 7.67 ng

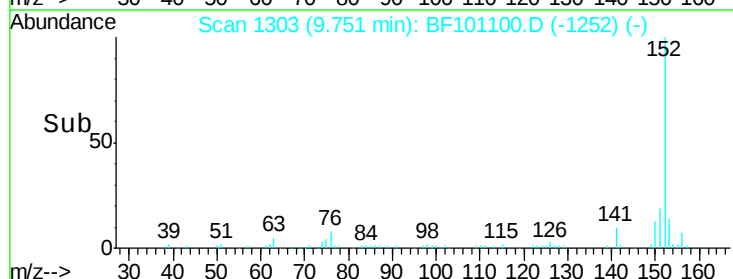
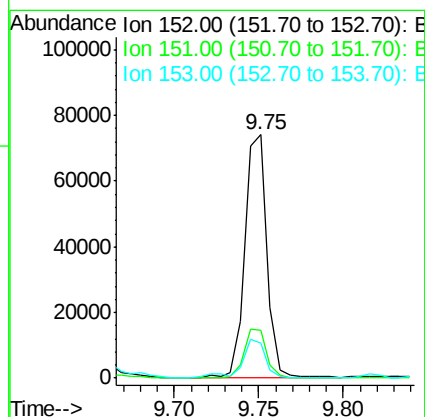
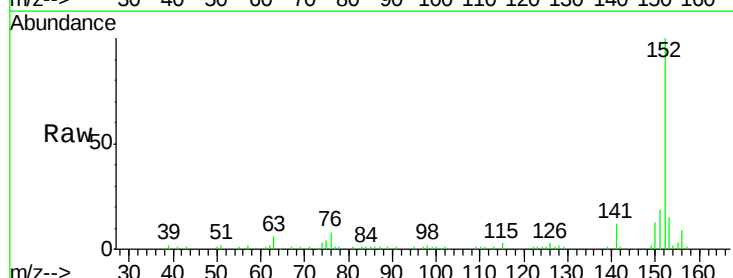
RT: 9.75 min Scan# 1303

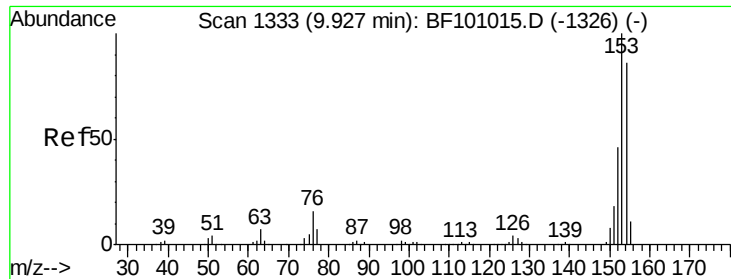
Delta R.T. 0.00 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Tgt Ion:	152	Resp:	67720
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.3	24.5
153	14.5	10.7	16.1





#51

Acenaphthene

Concen: 71.10 ng

RT: 9.93 min Scan# 1333

Delta R.T. 0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Instrument :

BNA_F

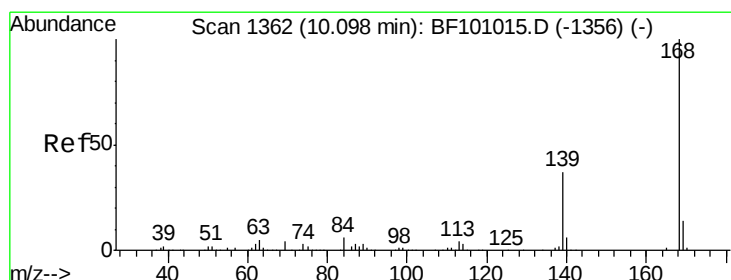
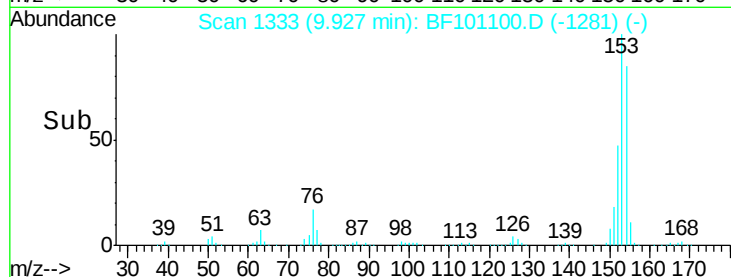
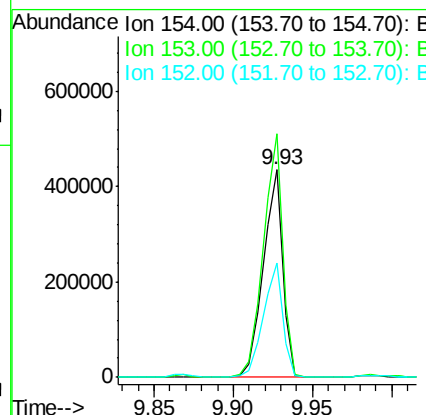
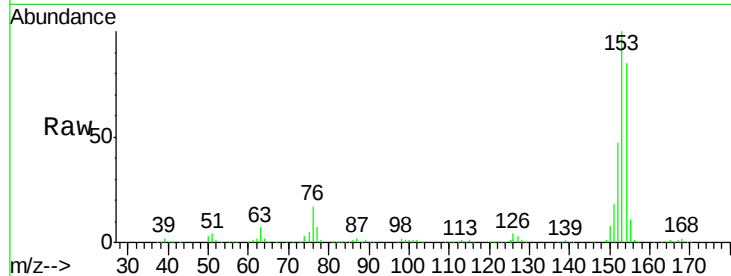
ClientSampleId :

CS-TP102-B(1-2)

Tot Ion:154	Resp:	375907
Ion Ratio	Lower	Upper
154	100	
153	117.2	91.2 136.8
152	55.3	43.8 65.8

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#54

Dibenzofuran

Concen: 4.37 ng

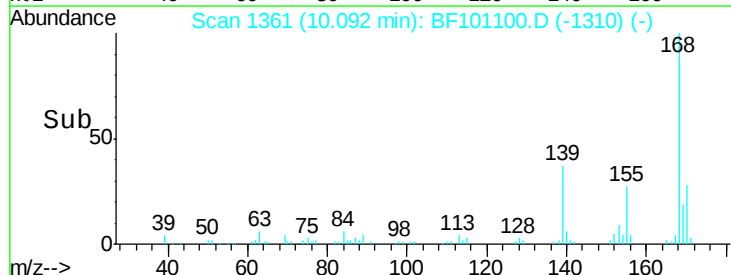
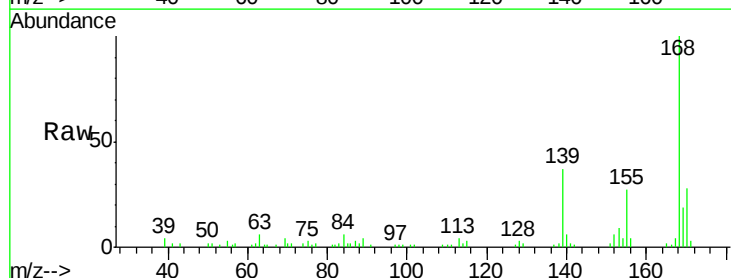
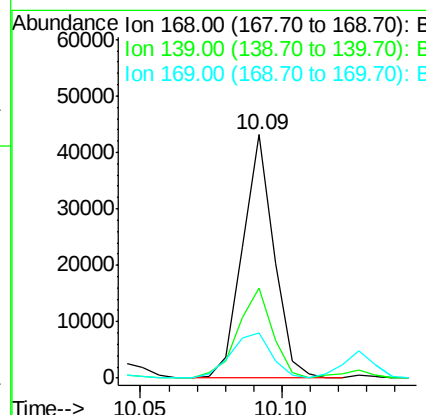
RT: 10.09 min Scan# 1361

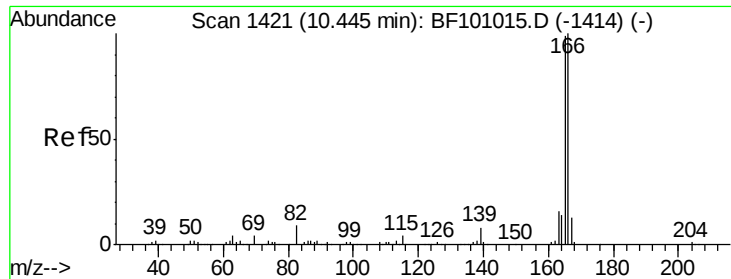
Delta R.T. 0.00 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Tgt Ion:168	Resp:	33317
Ion Ratio	Lower	Upper
168	100	
139	36.8	30.1 45.1
169	18.7	10.9 16.3#





#57

Fluorene

Concen: 33.66 ng

RT: 10.44 min Scan# 1420

Delta R.T. 0.00 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Instrument :

BNA_F

ClientSampleId :

CS-TP102-B(1-2)

Tot Ion:166 Resp: 208457
Ion Ratio Lower Upper

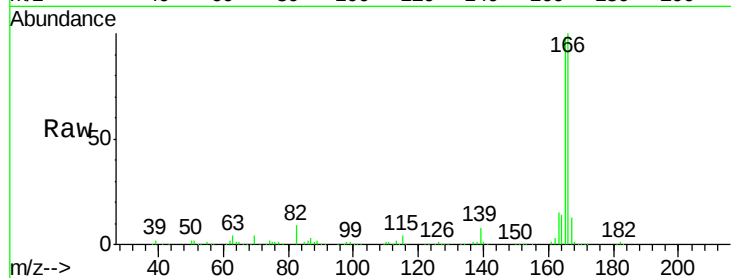
166 100

165 98.1 79.8 119.8

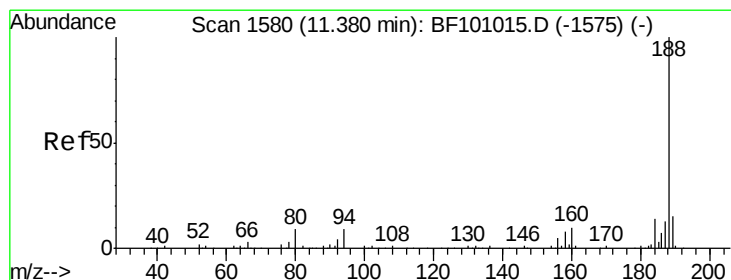
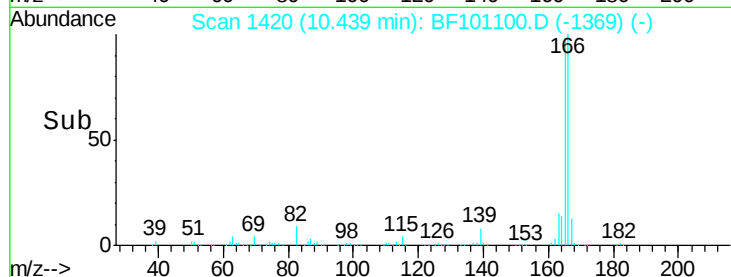
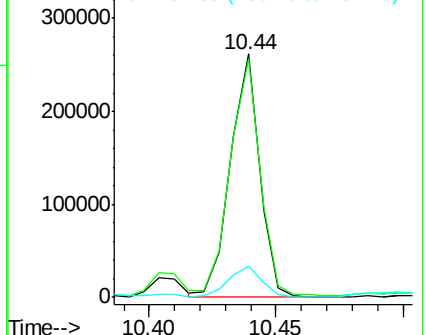
167 12.9 10.6 16.0

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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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.01 min

Lab File: BF101100.D

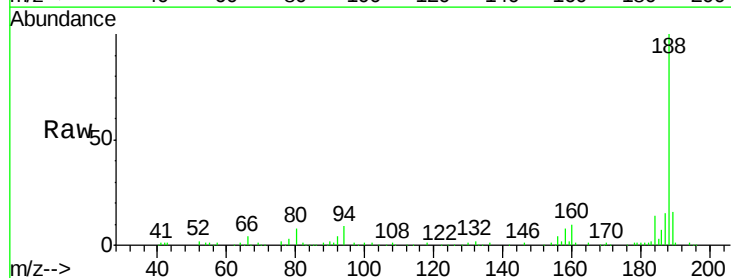
Acq: 4 Dec 2017 16:15

Tgt Ion:188 Resp: 136073
Ion Ratio Lower Upper

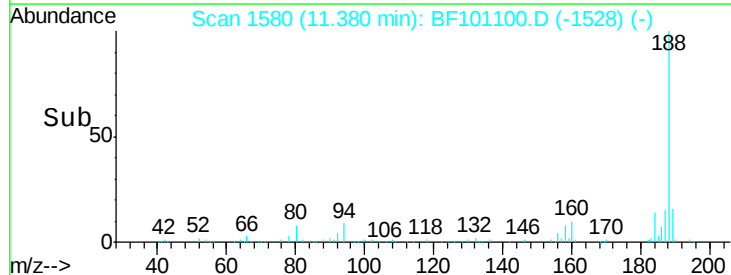
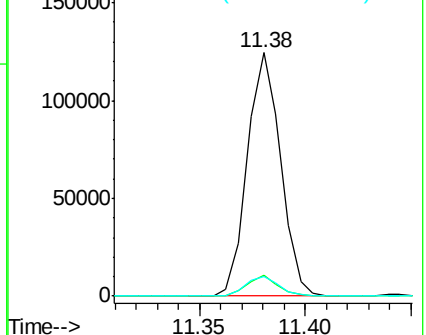
188 100

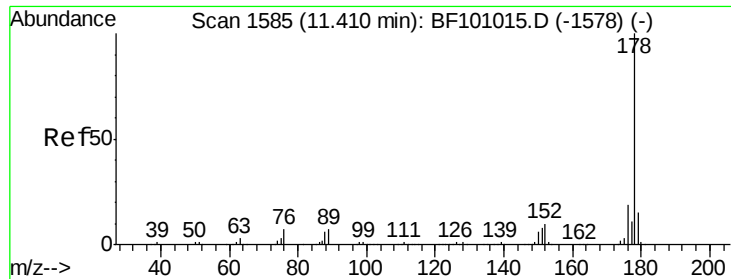
94 8.8 8.5 12.7

80 8.1 9.2 13.8#



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





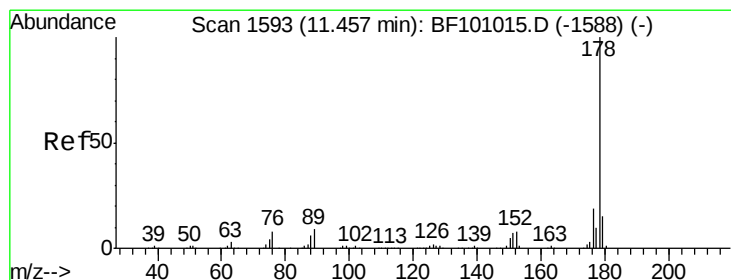
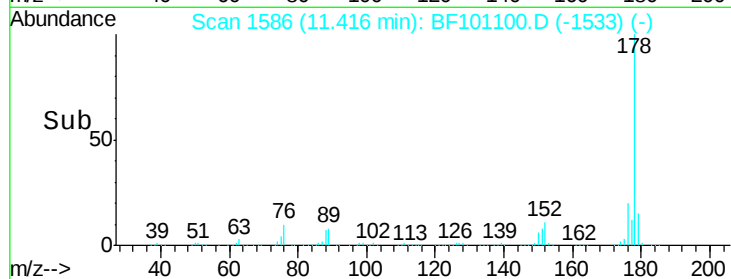
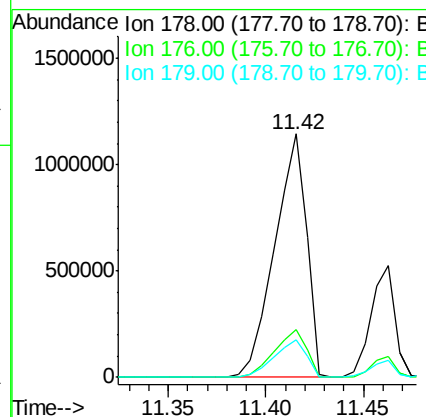
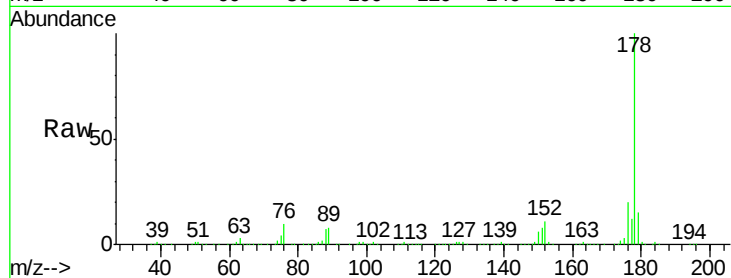
#70
Phenanthrene
Concen: 172.49 ng
RT: 11.42 min Scan# 1586
Delta R.T. 0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(1-2)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.4	13.0	19.6

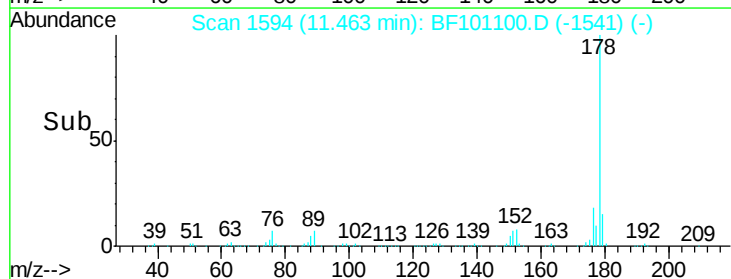
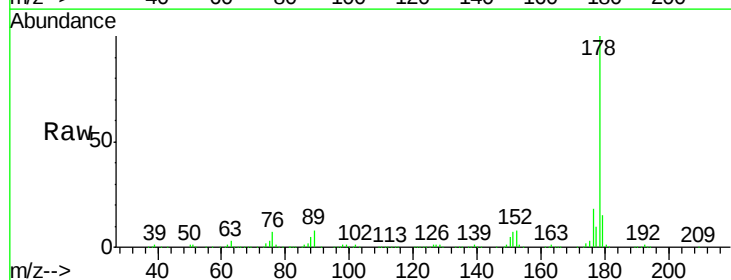
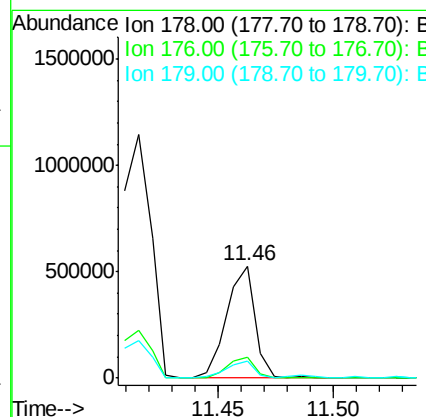
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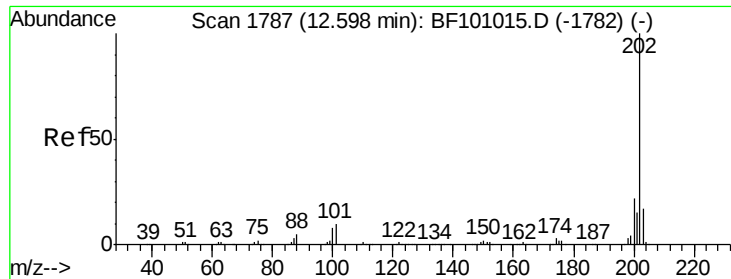
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#71
Anthracene
Concen: 59.01 ng
RT: 11.46 min Scan# 1594
Delta R.T. 0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.0	12.6	19.0





#74

Fluoranthene

Concen: 87.45 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Instrument :

BNA_F

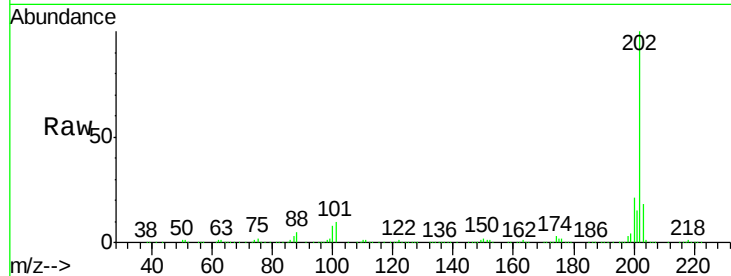
ClientSampleId :

CS-TP102-B(1-2)

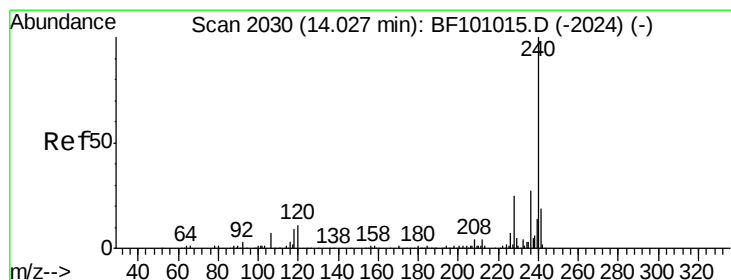
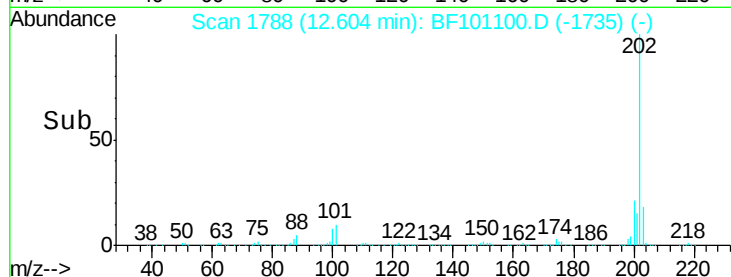
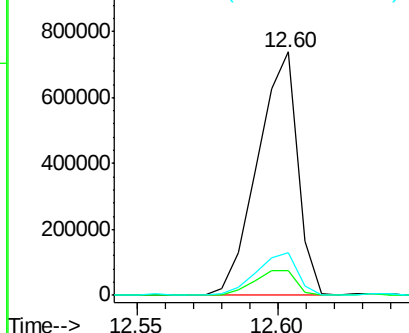
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.3	0.0	34.1
203	17.8	0.0	38.1

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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: 20.00 ng

RT: 14.03 min Scan# 2030

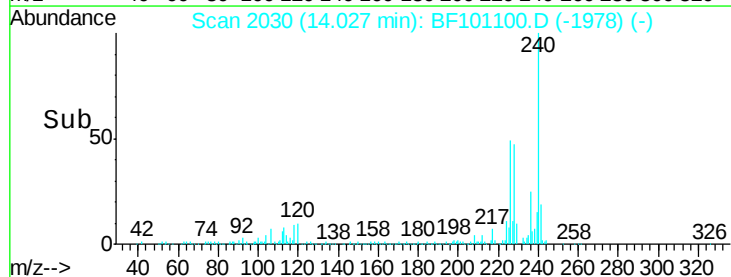
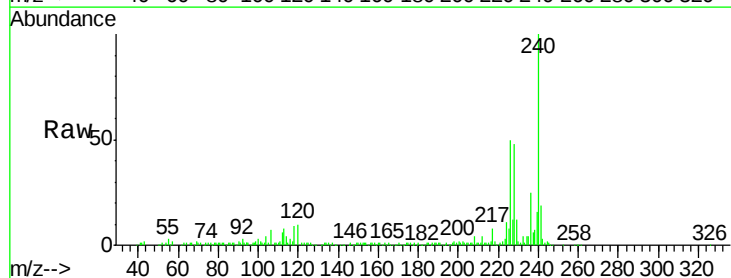
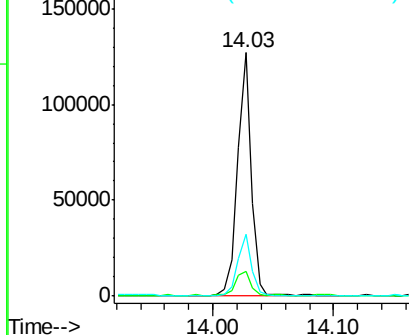
Delta R.T. 0.01 min

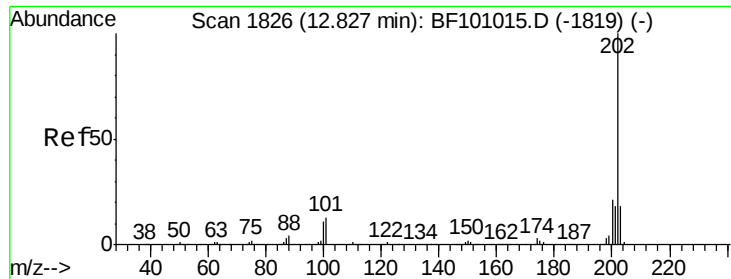
Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.1	9.5	14.3
236	25.3	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

Pvrene

Concen: 124.57 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Instrument :

BNA_F

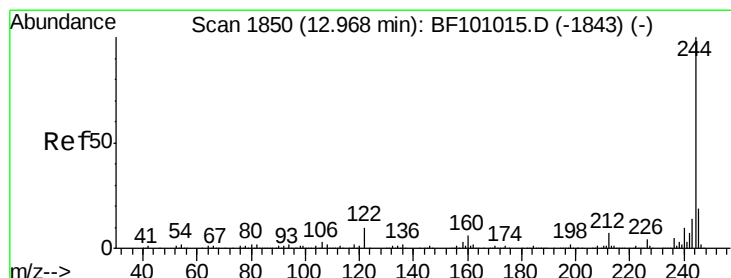
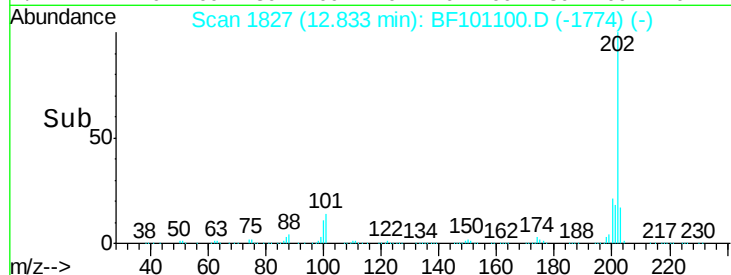
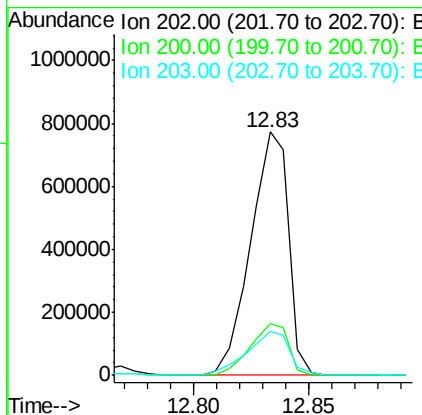
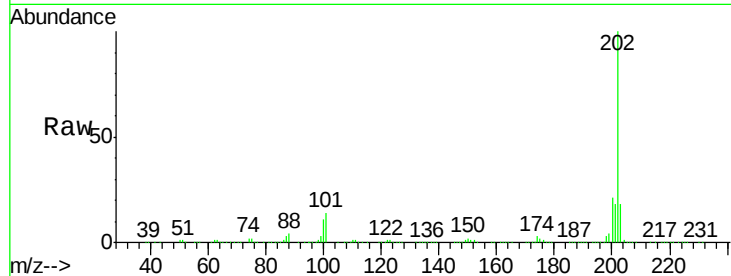
ClientSampleId :

CS-TP102-B(1-2)

Tot Ion:	202	Resp:	881685
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.4	26.2
203	17.9	14.3	21.5

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#78

Terphenyl-d14

Concen: 10.41 ng

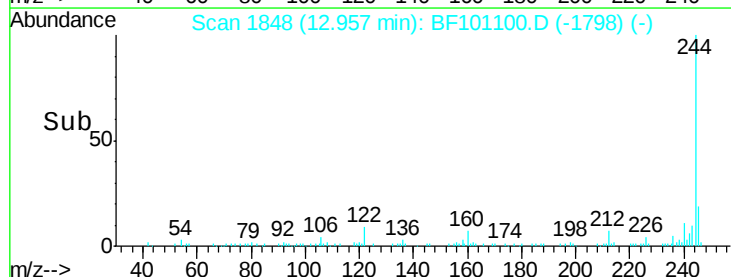
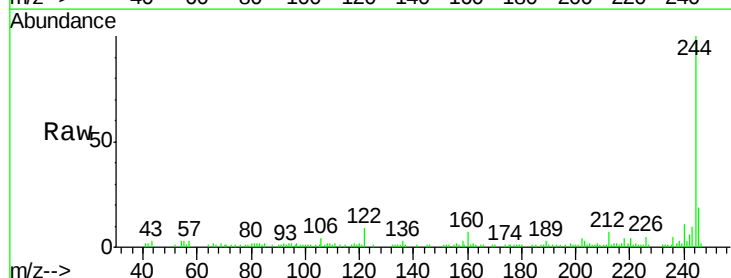
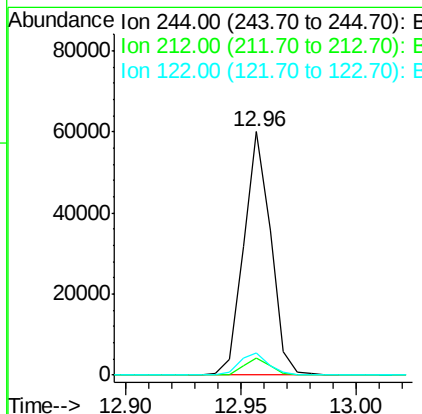
RT: 12.96 min Scan# 1848

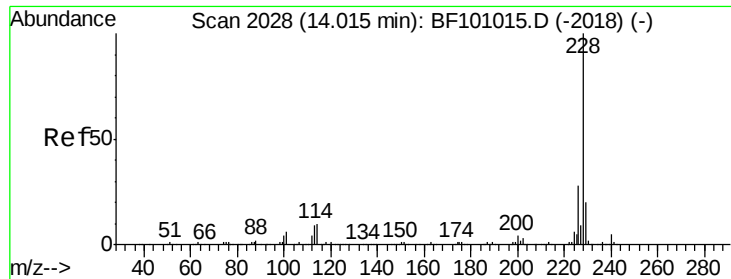
Delta R.T. -0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Tgt Ion:	244	Resp:	48812
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.4	8.0
122	9.2	11.0	16.4#





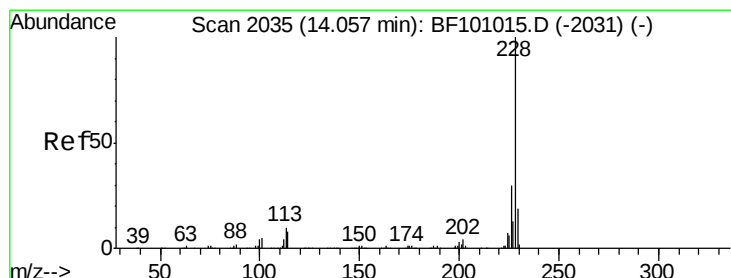
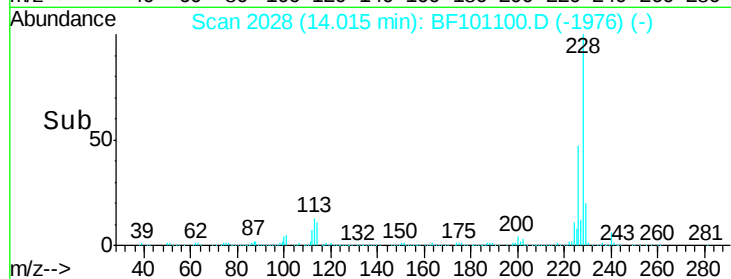
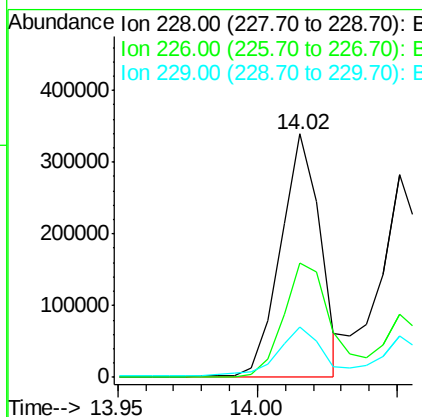
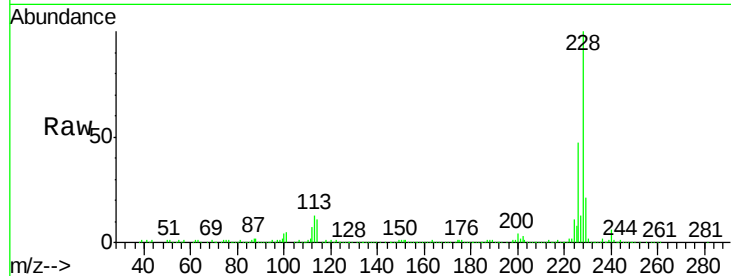
#80
Benzo(a)anthracene
Concen: 52.13 ng m
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(1-2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	47.1	22.6	33.8#
229	20.5	15.8	23.6

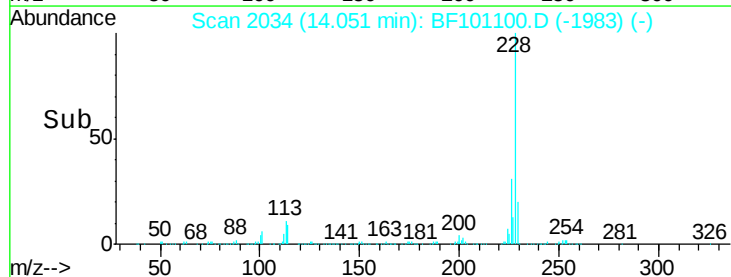
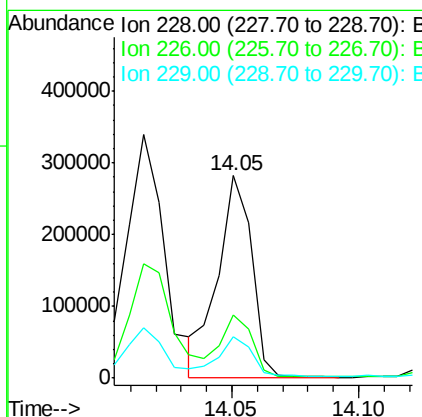
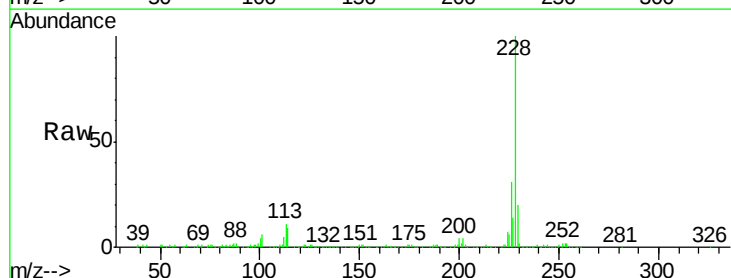
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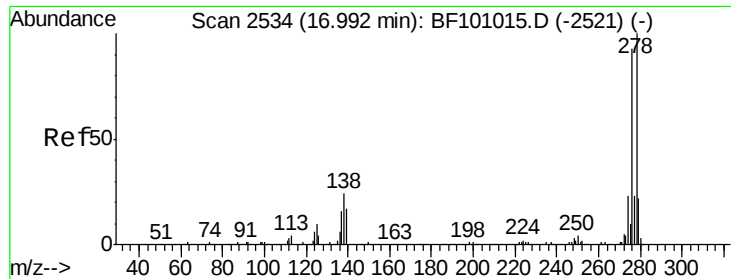
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#82
Chrysene
Concen: 43.70 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.00 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.0	37.6
229	20.5	16.2	24.4





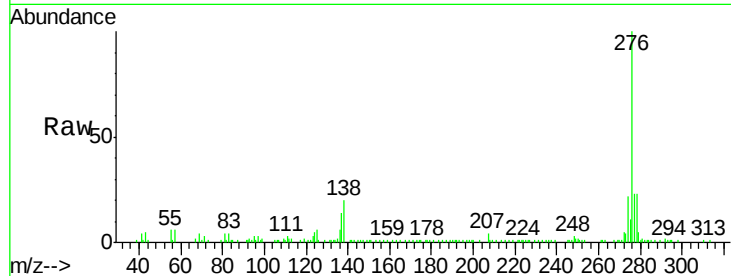
#85
Indeno(1,2,3-cd)pyrene
Concen: 18.36 ng
RT: 16.99 min Scan# 2533
Delta R.T. 0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(1-2)

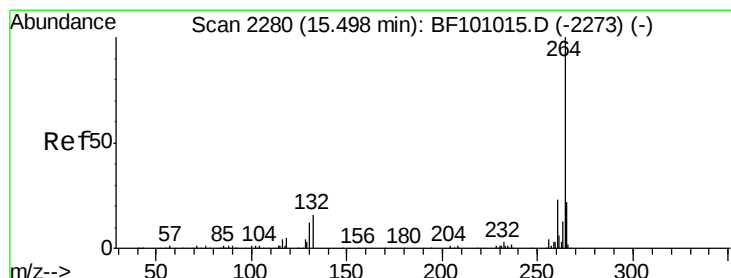
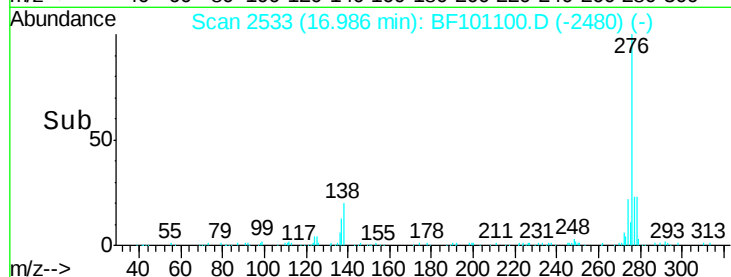
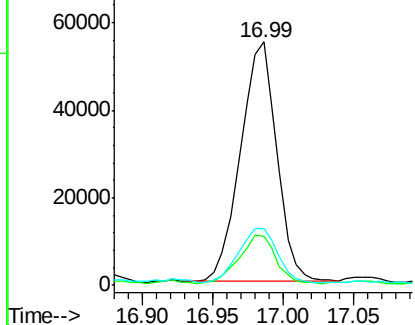
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.2	25.0	37.6#
277	24.0	20.1	30.1

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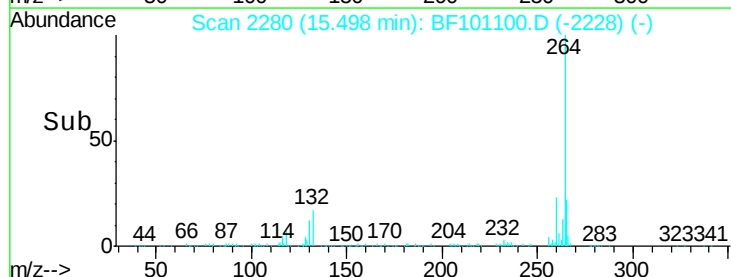
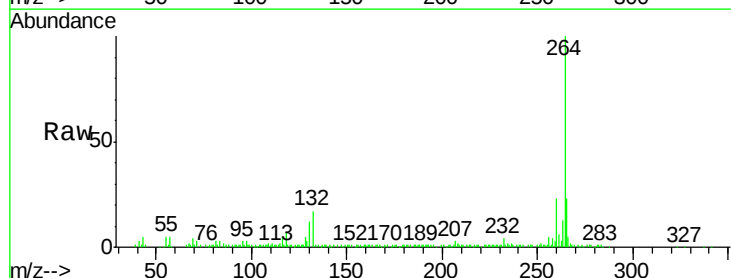
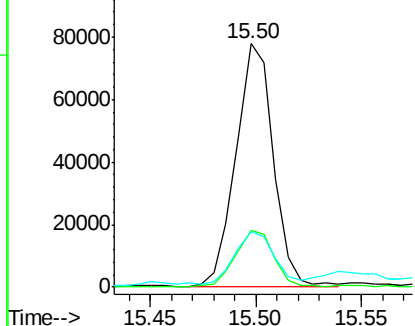
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

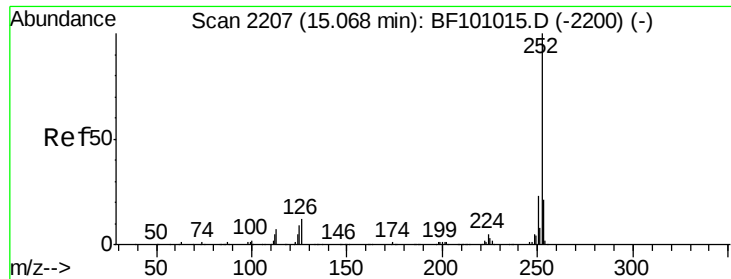


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.7	17.5	26.3

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 47.69 ng m

RT: 15.07 min Scan# 2208

Delta R.T. 0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Instrument :

BNA_F

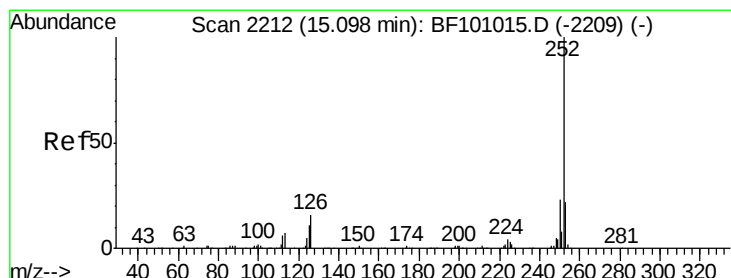
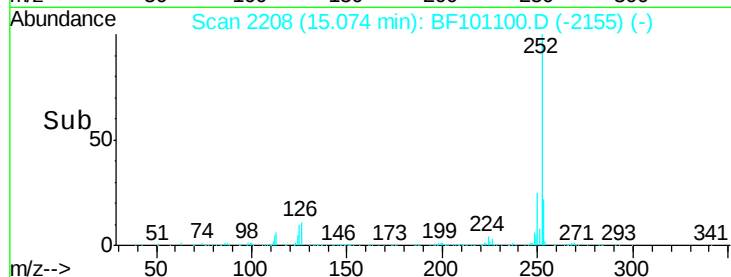
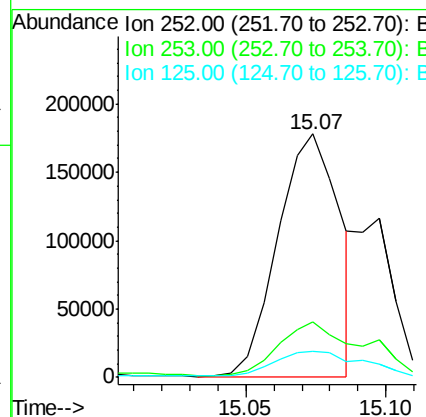
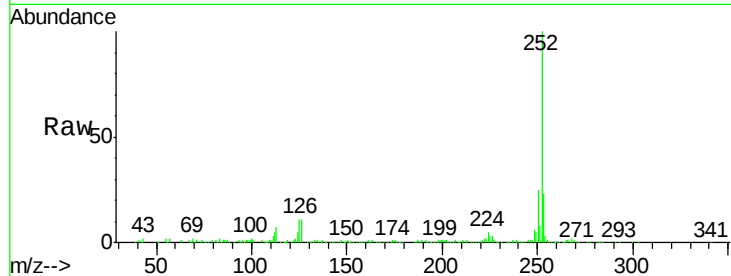
ClientSampleId :

CS-TP102-B(1-2)

Tot Ion:	252	Resp:	275390
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.0	25.6
125	10.9	9.0	13.6

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#88

Benzo(k)fluoranthene

Concen: 18.71 ng m

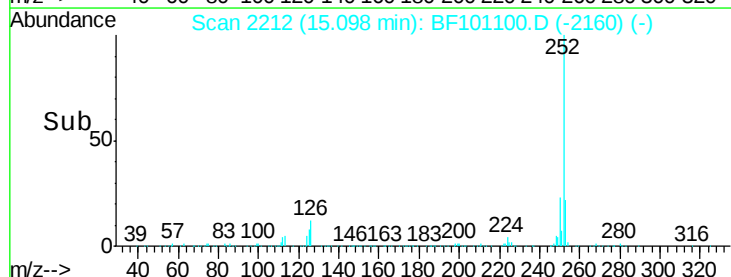
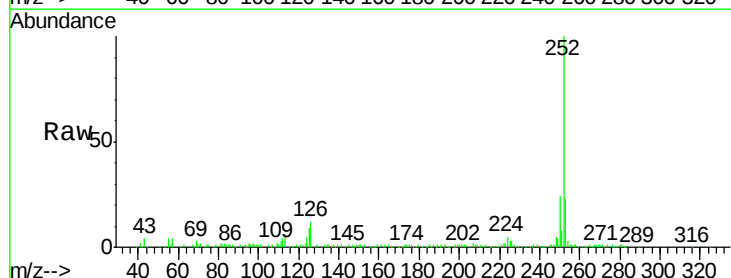
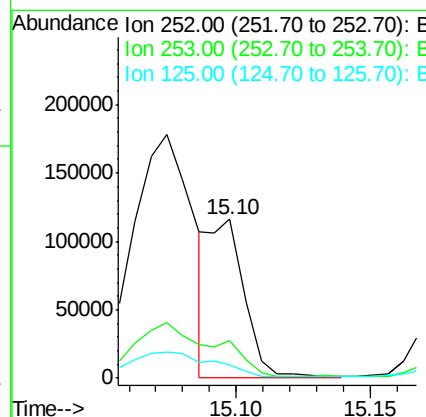
RT: 15.10 min Scan# 2212

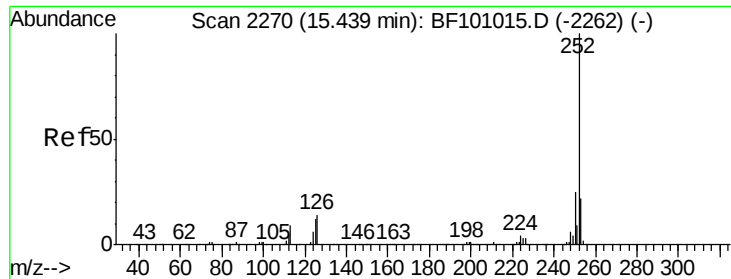
Delta R.T. 0.01 min

Lab File: BF101100.D

Acq: 4 Dec 2017 16:15

Tgt Ion:	252	Resp:	106452
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.9	26.9
125	8.6	10.2	15.2#





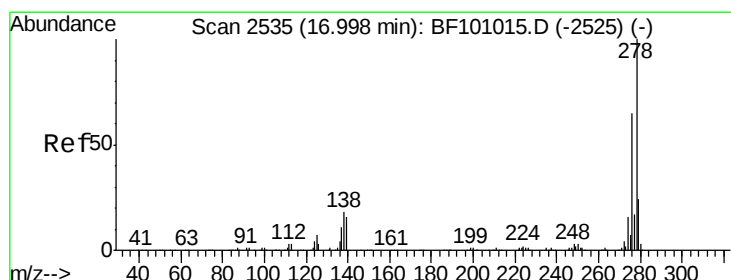
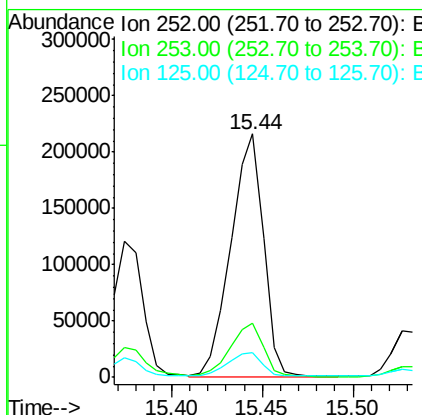
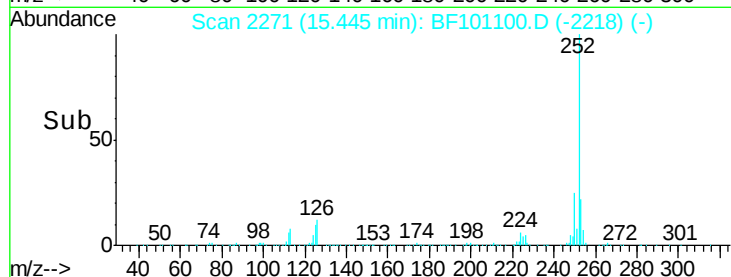
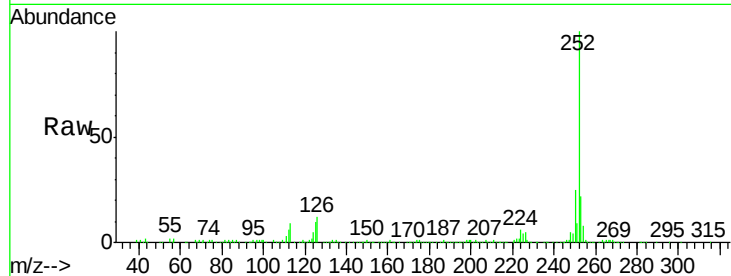
#89
Benzo(a)pyrene
Concen: 51.18 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(1-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	10.2	9.8	14.6

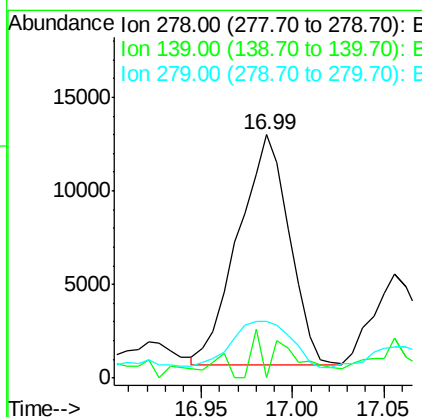
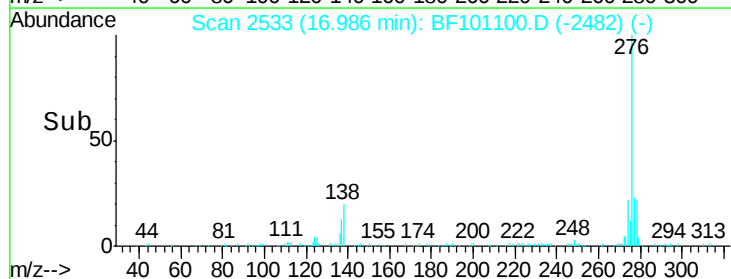
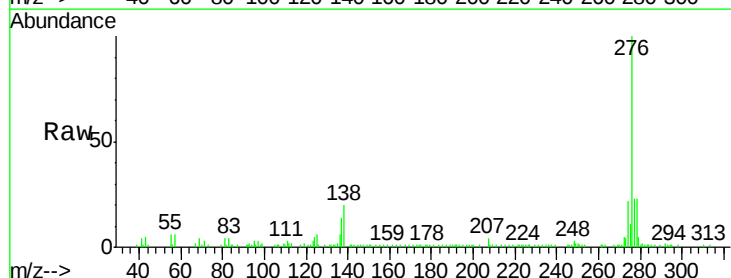
Manual Integrations
APPROVED

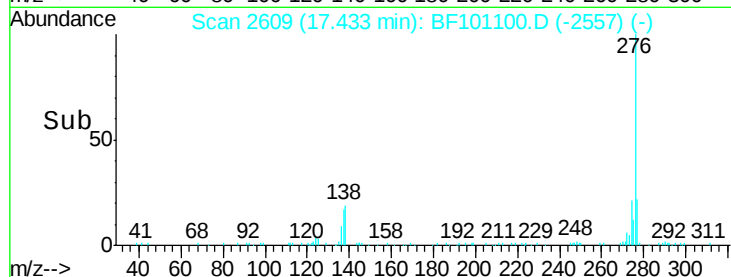
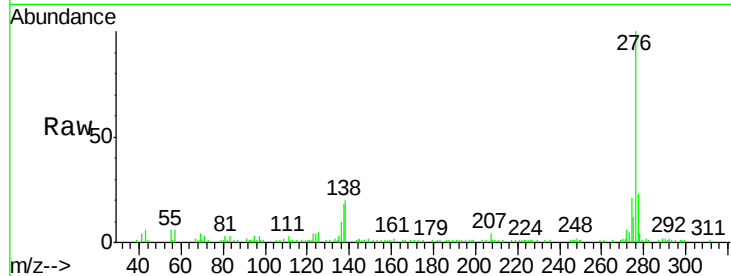
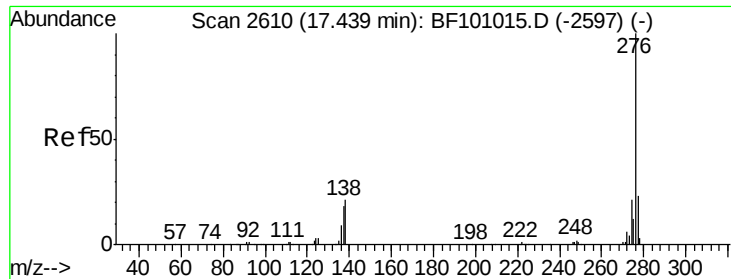
Sohil
12/5/2017 3:24:28 PM



#90
Dibenzo(a,h)anthracene
Concen: 5.19 ng m
RT: 16.99 min Scan# 2533
Delta R.T. 0.00 min
Lab File: BF101100.D
Acq: 4 Dec 2017 16:15

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	23.4	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 22.24 ng m
 RT: 17.43 min Scan# 2609
 Delta R.T. 0.01 min
 Lab File: BF101100.D
 Acq: 4 Dec 2017 16:15

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(1-2)

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.9	17.9	26.9
138	20.0	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/5/2017 3:24:28 PM

