

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050417\
 Data File : BF094918.D
 Acq On : 5 May 2017 15:31
 Operator : SJ/MA
 Sample : I2953-03DL 25X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMPD

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Quant Time: May 05 16:12:35 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	85518	20.00	ng	-0.01
21) Naphthalene-d8	9.74	136	375544	20.00	ng	-0.02
38) Acenaphthene-d10	12.57	164	173552	20.00	ng	-0.02
63) Phenanthrene-d10	14.97	188	317005	20.00	ng	-0.01
75) Chrysene-d12	18.64	240	225474	20.00	ng	-0.02
86) Perylene-d12	20.30	264	198042	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.73	112	20234m	3.94	ng	0.05
7) Phenol-d6	7.33	99	24596m	4.00	ng	0.05
23) Nitrobenzene-d5	8.65	82	14629	2.46	ng	0.02
41) 2,4,6-Tribromophenol	13.88	330	5226	3.68	ng	0.00
44) 2-Fluorobiphenyl	11.52	172	33427	2.77	ng	-0.01
78) Terphenyl-d14	17.29	244	25052	2.45	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	9.77	128	158389	8.39	ng	99
37) 2-Methylnaphthalene	10.91	142	34776	2.81	ng	95
51) Acenaphthene	12.62	154	67574	6.12	ng	99
54) Dibenzofuran	12.91	168	80992	5.30	ng	98
57) Fluorene	13.47	166	87471	6.59	ng	100
70) Phenanthrene	15.01	178	1016818	55.83	ng	98
71) Anthracene	15.09	178	288701	15.52	ng	97
72) Carbazole	15.37	167	92085	5.44	ng	97
74) Fluoranthene	16.75	202	945970	50.63	ng	99
77) Pyrene	17.05	202	786961	46.67	ng	97
80) Benzo(a)anthracene	18.62	228	319600	24.36	ng	99
82) Chrysene	18.67	228	307210	24.21	ng	97
85) Indeno(1,2,3-cd)pyrene	21.59	276	107109	10.39	ng	94
87) Benzo(b)fluoranthene	19.89	252	306638m	25.06	ng	
88) Benzo(k)fluoranthene	19.92	252	113992m	9.66	ng	
89) Benzo(a)pyrene	20.24	252	228912	20.27	ng	98
90) Dibenzo(a,h)anthracene	21.60	278	28973	3.11	ng	94
91) Benzo(g,h,i)perylene	21.96	276	102654	11.22	ng	99

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

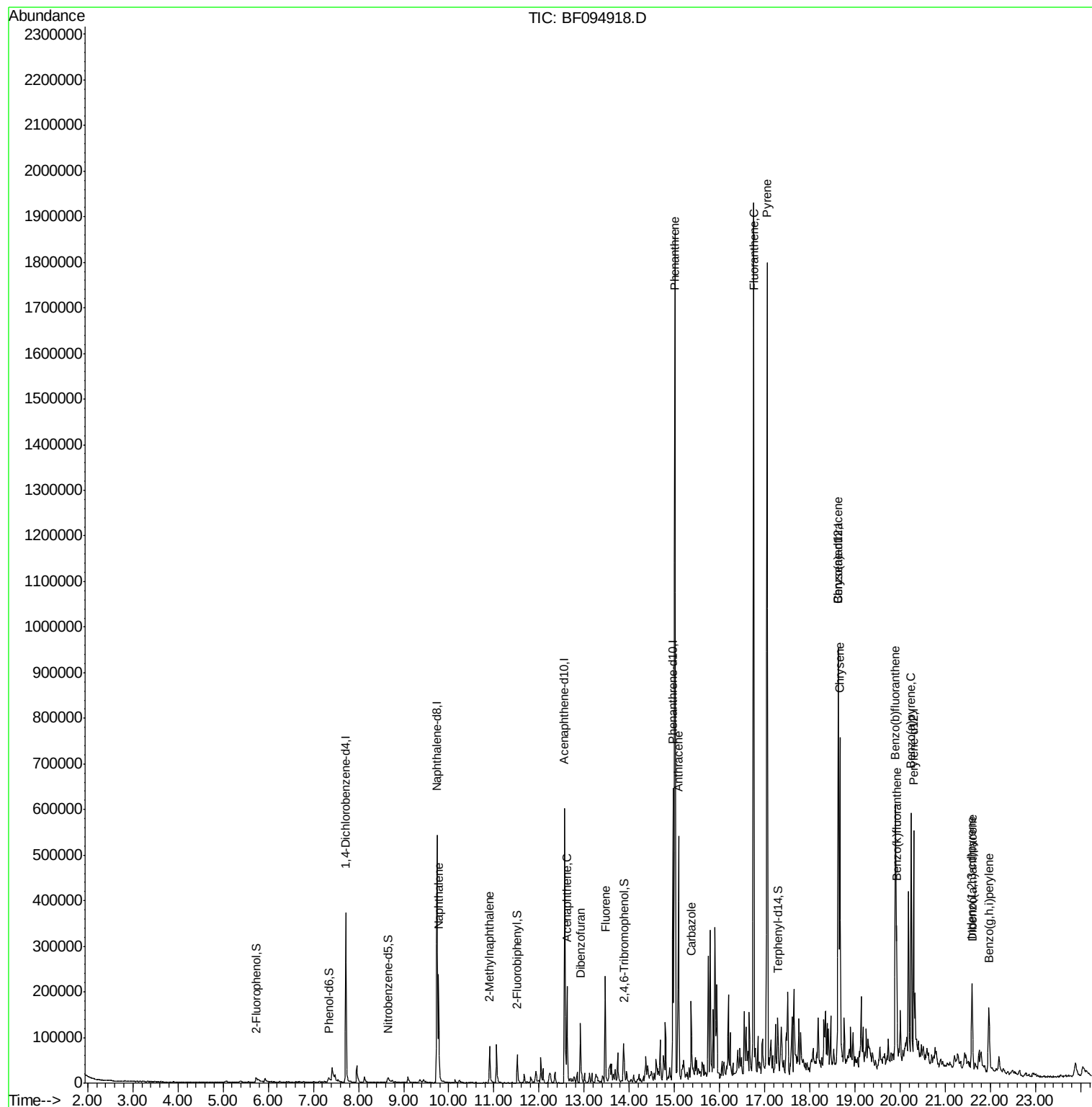
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050417\
Data File : BF094918.D
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Sample : I2953-03DL 25X
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ALS Vial : 44 Sample Multiplier: 1

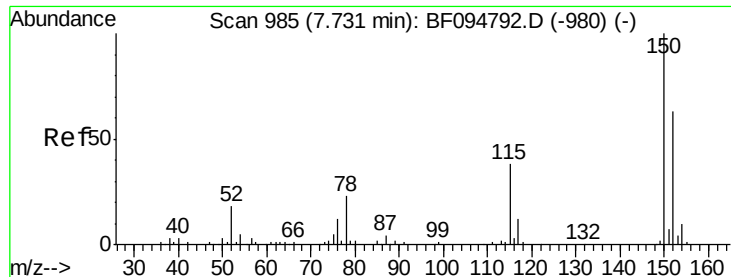
Instrument :
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ClientSampleId :
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Quant Time: May 05 16:12:35 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 03 17:24:51 2017
Response via : Initial Calibration





#1

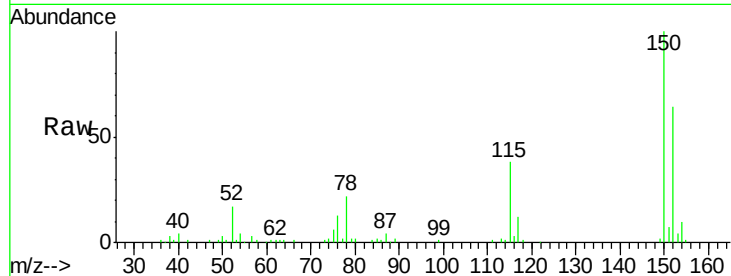
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 983
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

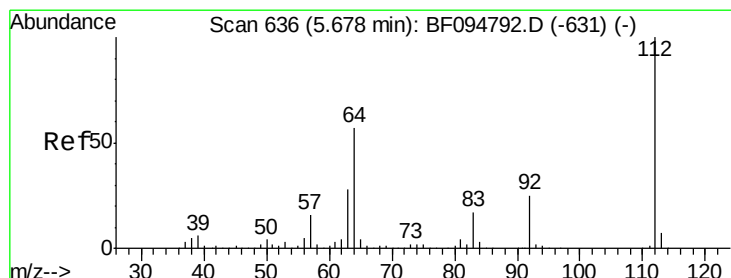
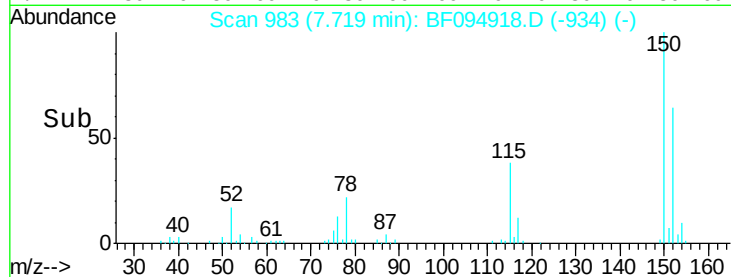
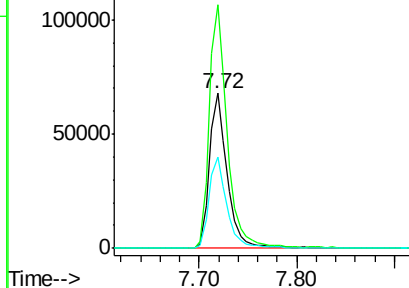
Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.1	126.2	189.2
115	59.1	52.2	78.2

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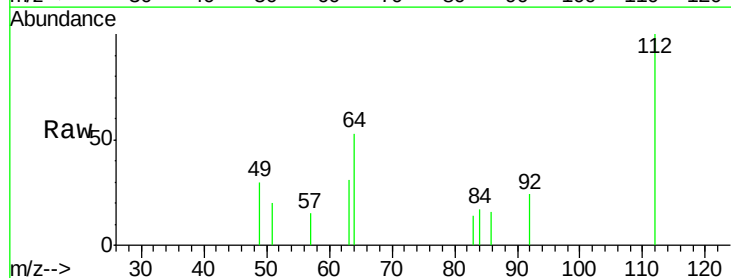
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Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



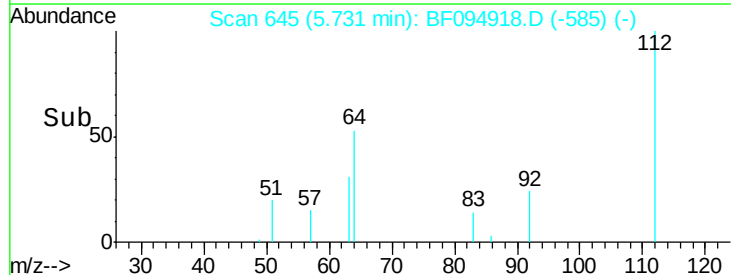
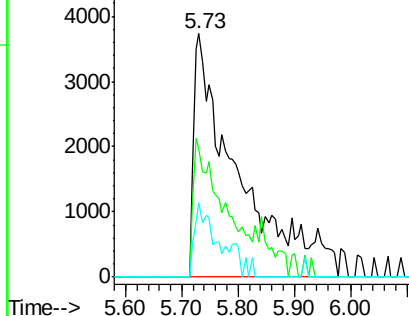
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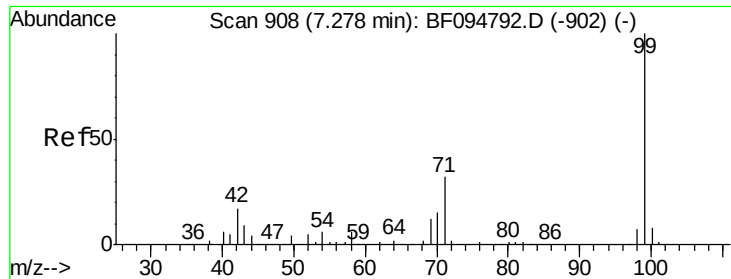
2-Fluorophenol
Concen: 3.94 ng m
RT: 5.73 min Scan# 645
Delta R.T. 0.05 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.9	46.0	69.0
63	30.6	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

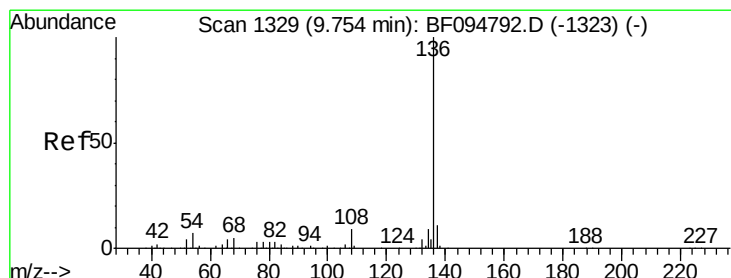
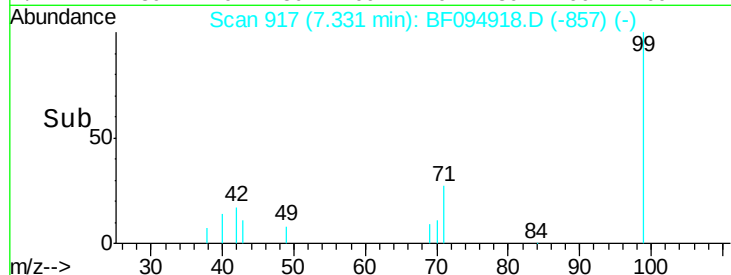
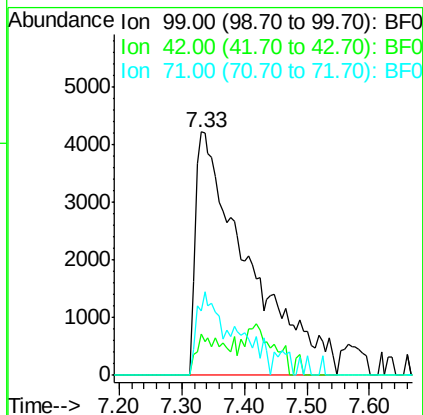
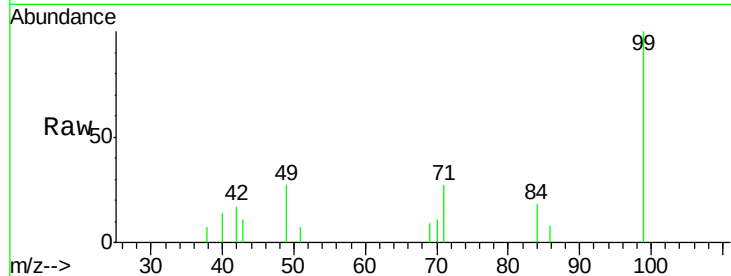
Concen: 4.00 ng m
RT: 7.33 min Scan# 917
Delta R.T. 0.05 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
99	100		
42	17.2	13.5	20.3
71	26.6	24.5	36.7

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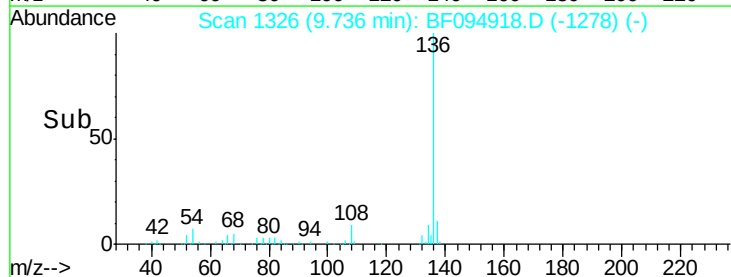
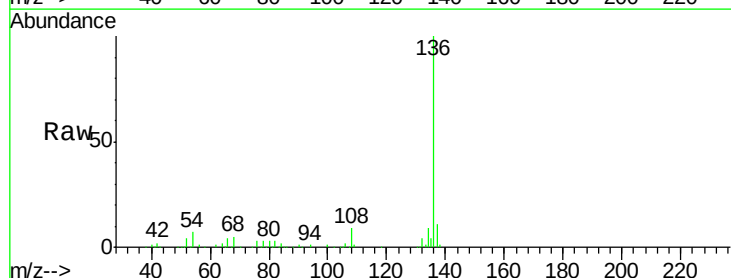
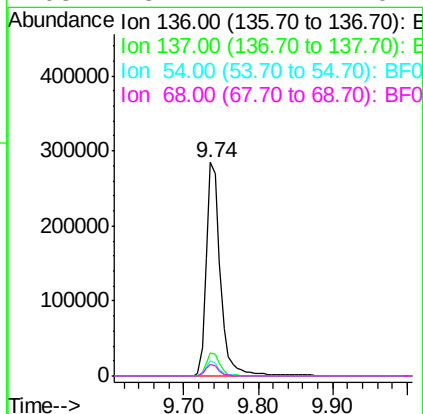


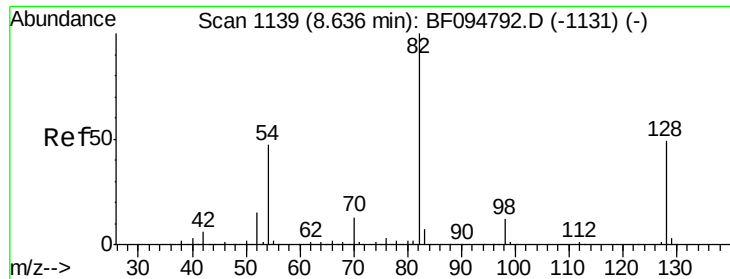
#21

Naphthalene-d8

Concen: 20.00 ng
RT: 9.74 min Scan# 1326
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	7.0	4.9	7.3
68	5.4	4.1	6.1





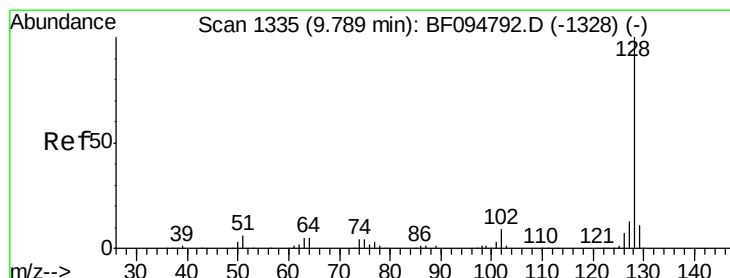
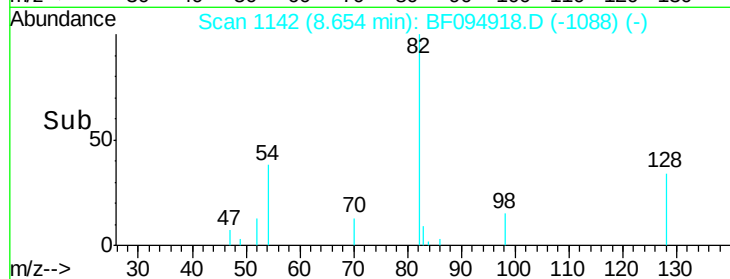
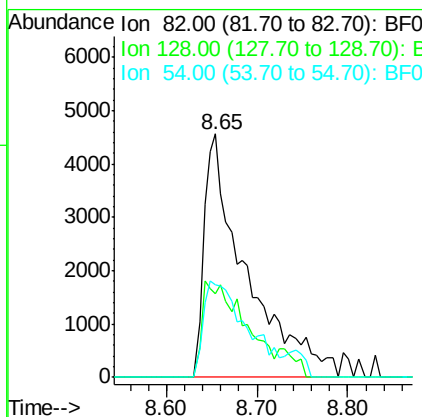
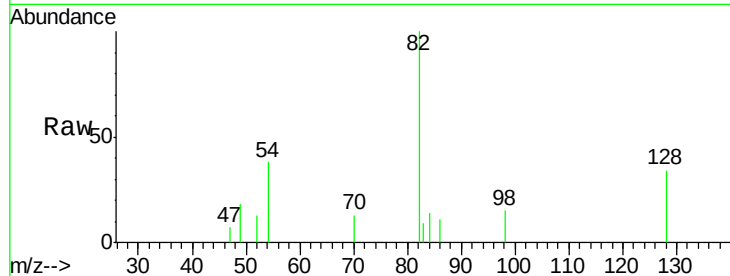
#23
 Nitrobenzene-d5
 Concen: 2.46 ng
 RT: 8.65 min Scan# 1142
 Delta R.T. 0.02 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMPDL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.1	34.0	51.0
54	38.3	42.2	63.2

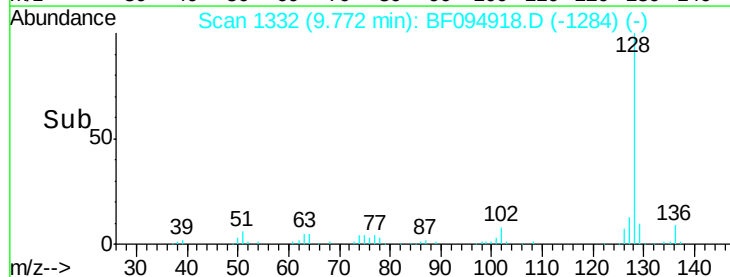
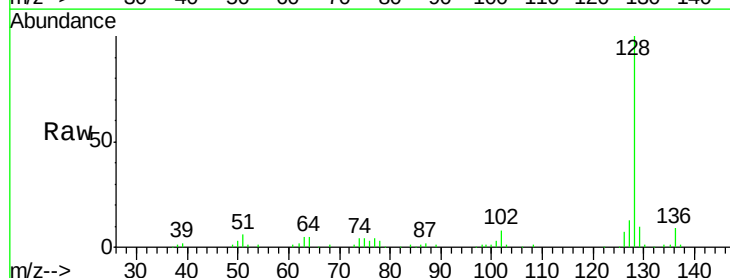
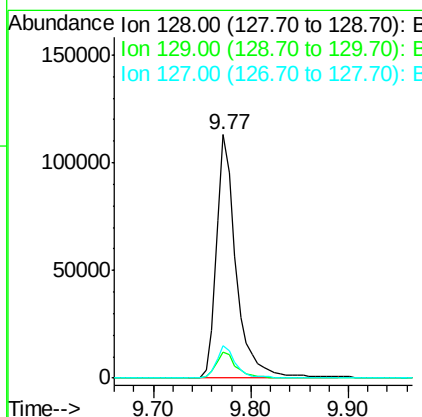
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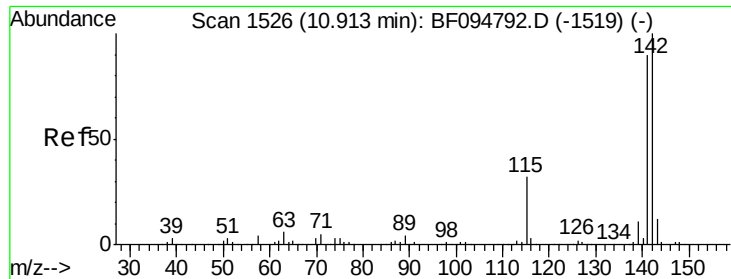
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#31
 Naphthalene
 Concen: 8.39 ng
 RT: 9.77 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: BF094918.D
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.0	13.6
127	13.1	10.8	16.2





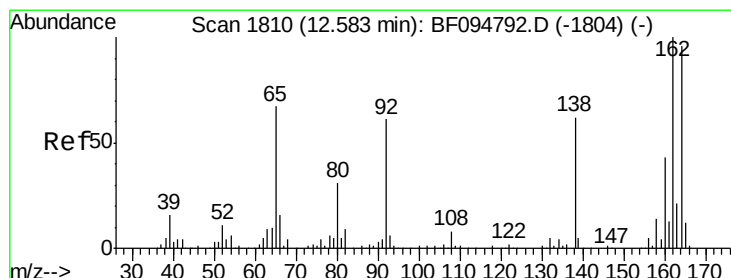
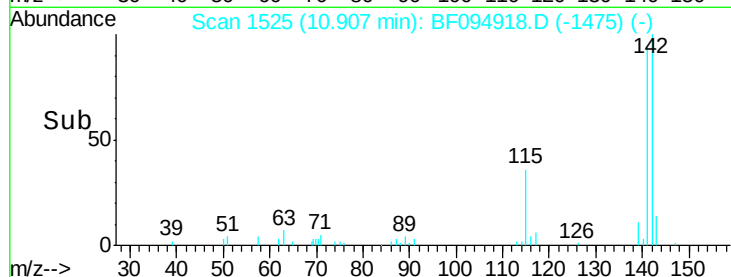
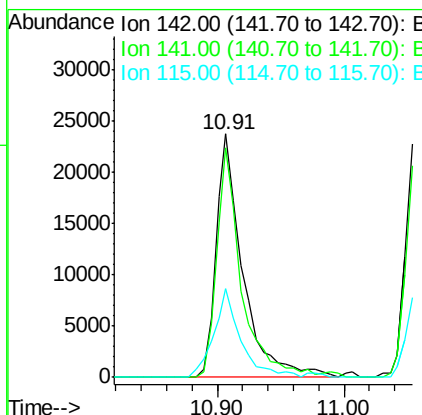
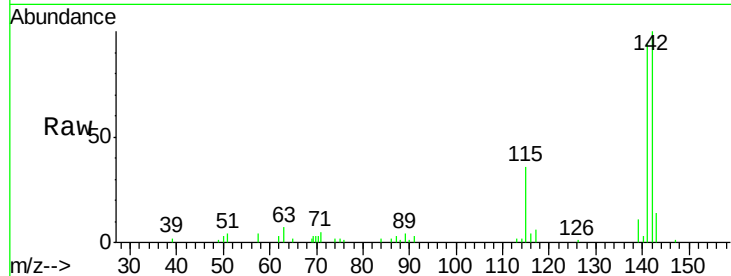
#37
2-Methylnaphthalene
Concen: 2.81 ng
RT: 10.91 min Scan# 1525
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.1	71.3	106.9
115	36.3	27.1	40.7

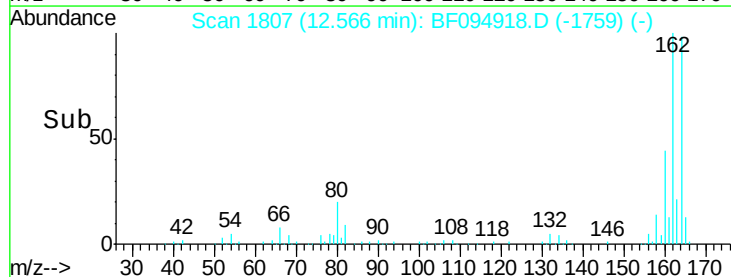
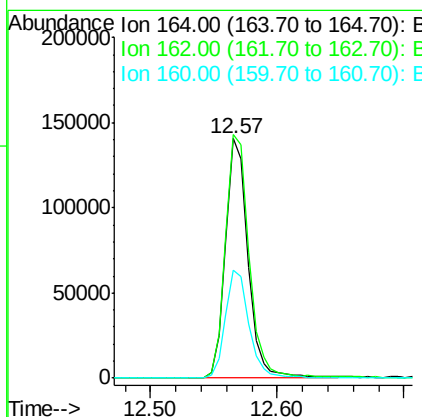
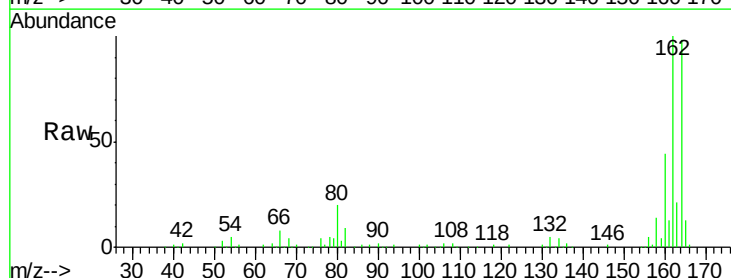
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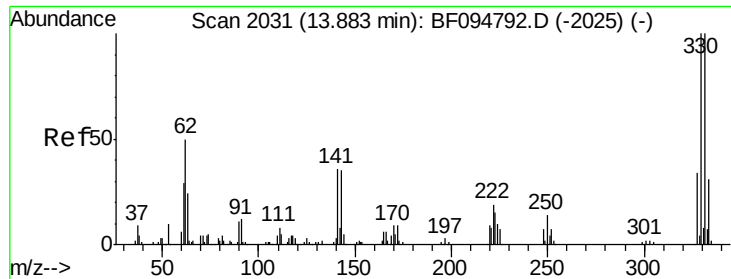
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.57 min Scan# 1807
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.7	82.6	123.8
160	45.1	36.2	54.2





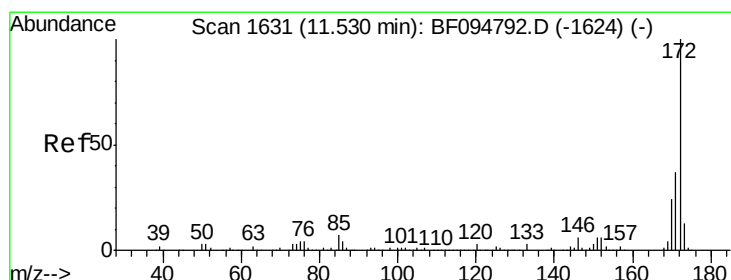
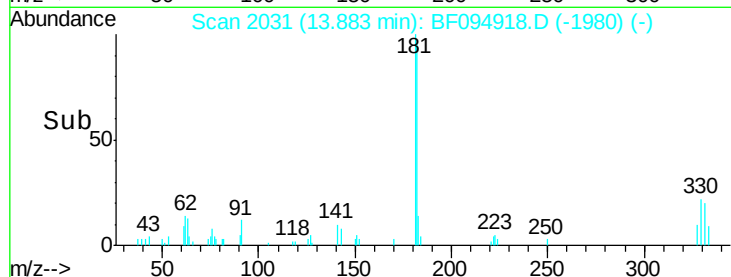
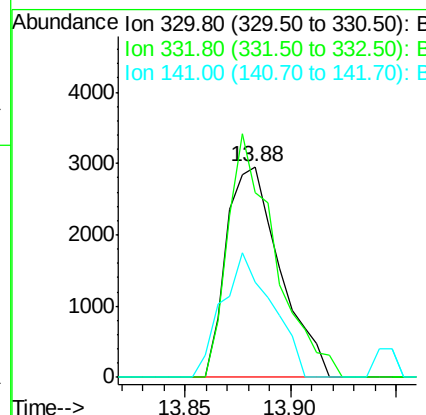
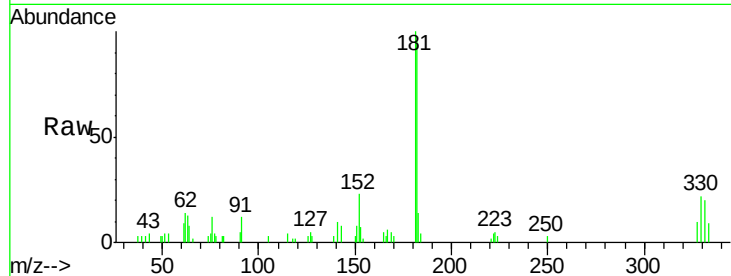
#41
 2,4,6-Tribromophenol
 Concen: 3.68 ng
 RT: 13.88 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.4	76.6	115.0
141	54.9	31.4	47.2

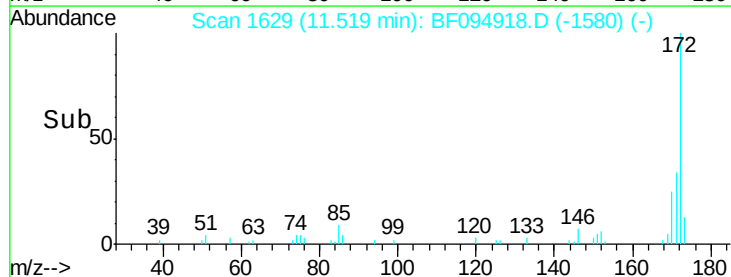
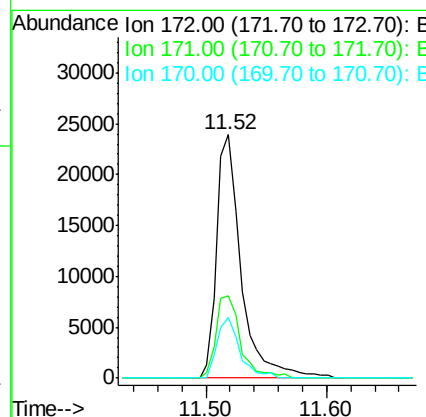
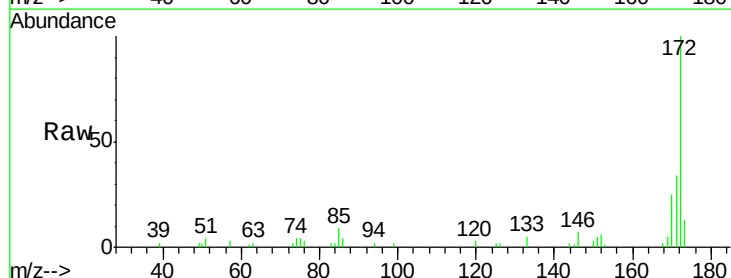
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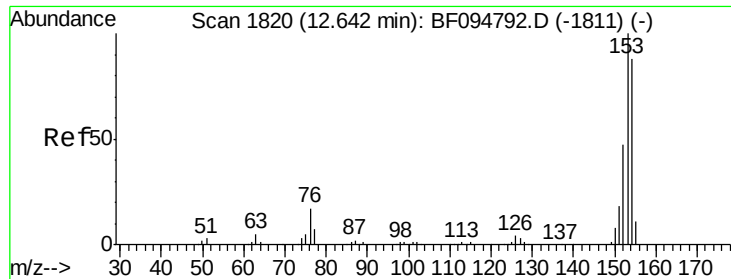
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#44
 2-Fluorobiphenyl
 Concen: 2.77 ng
 RT: 11.52 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.7	29.6	44.4
170	24.7	19.8	29.8





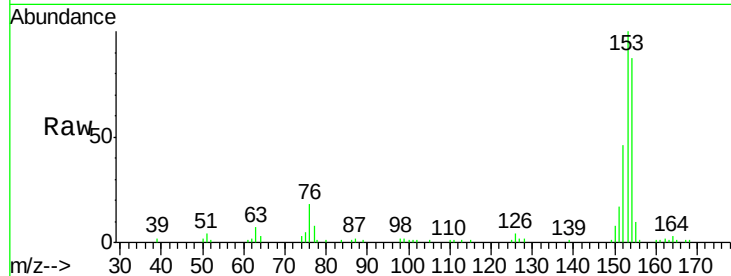
#51
Acenaphthene
Concen: 6.12 ng
RT: 12.62 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

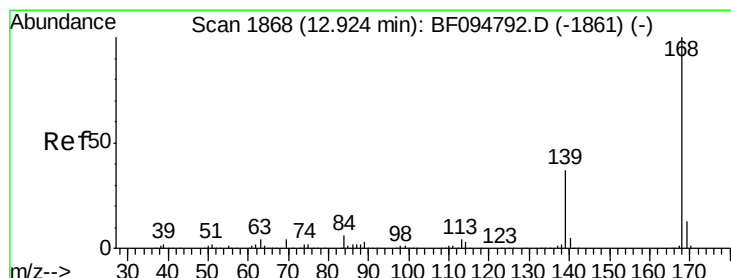
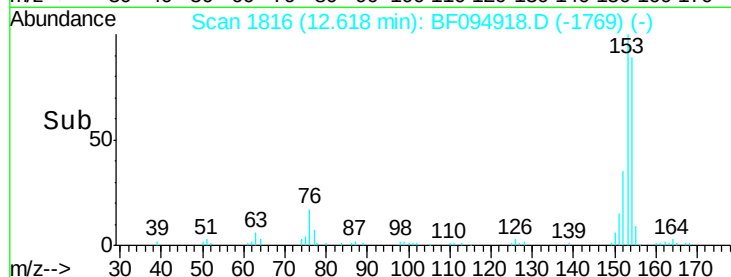
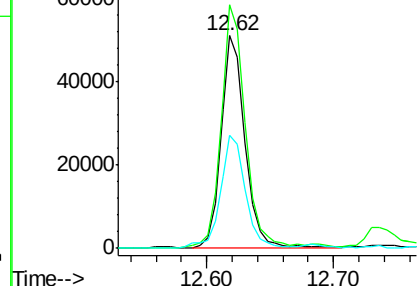
Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.5	90.5	135.7
152	53.2	43.6	65.4

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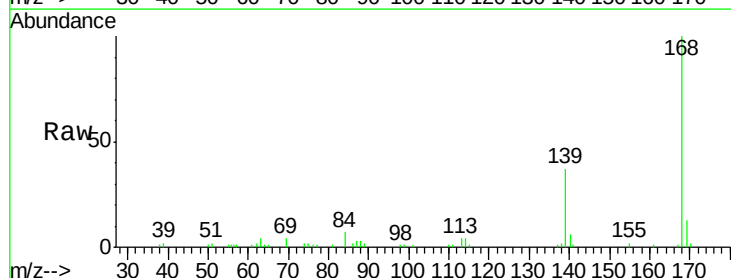


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

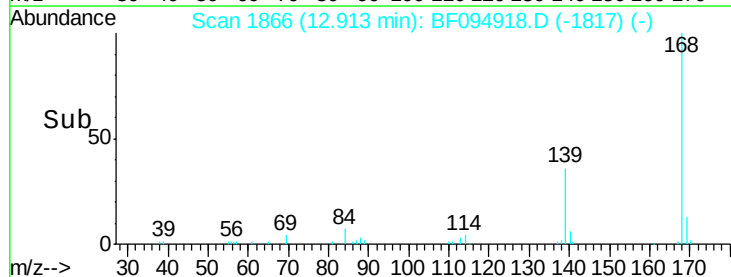
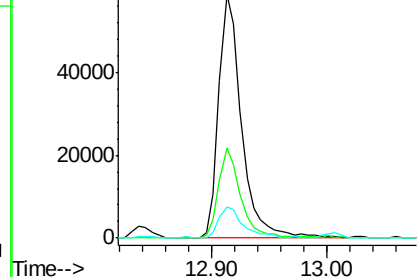


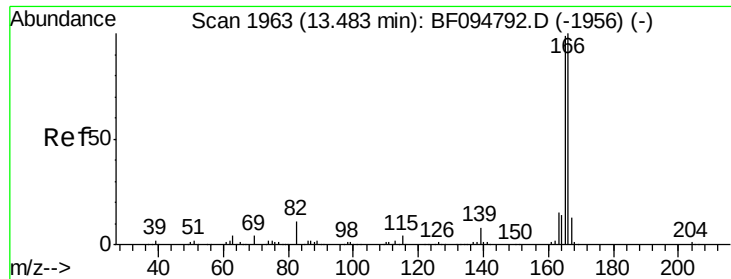
#54
Dibenzofuran
Concen: 5.30 ng
RT: 12.91 min Scan# 1866
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.8	30.6	45.8
169	13.0	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





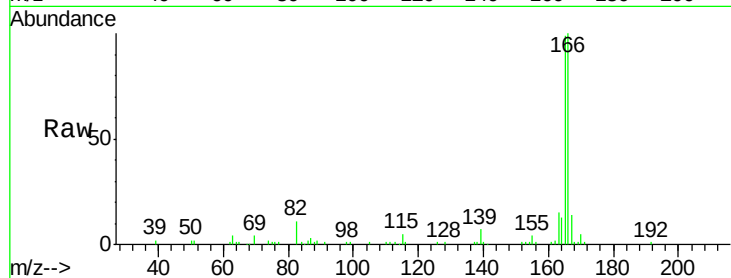
#57
Fluorene
Concen: 6.59 ng
RT: 13.47 min Scan# 1960
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.8	118.2
167	13.8	10.6	16.0

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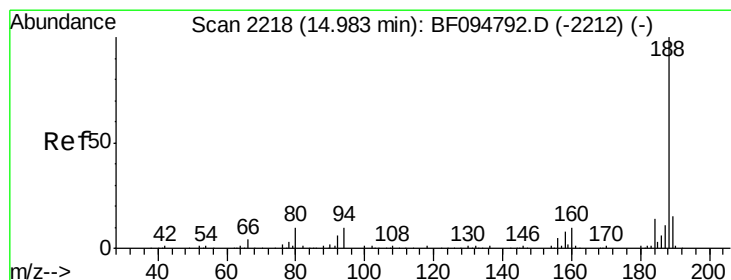
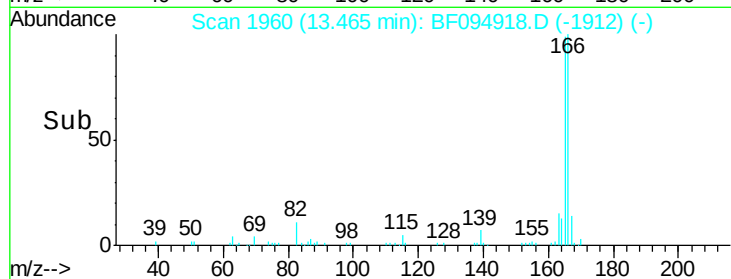
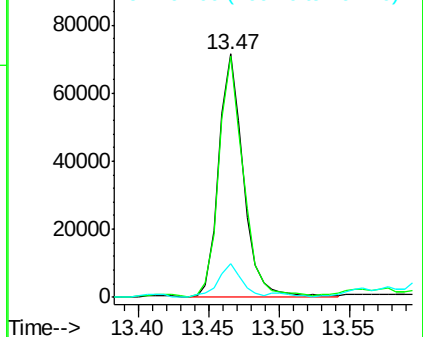


Abundance

Ion 166.00 (165.70 to 166.70): E

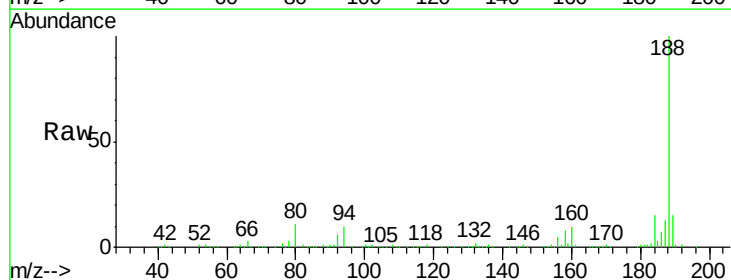
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.97 min Scan# 2216
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	9.4	14.2
80	10.6	10.2	15.2

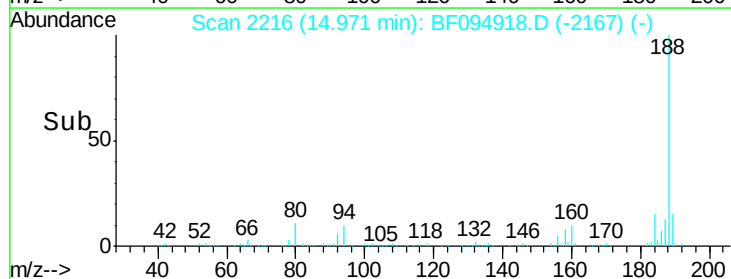
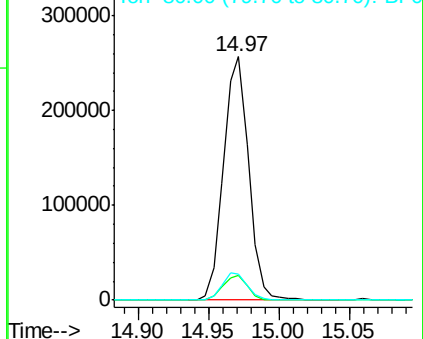


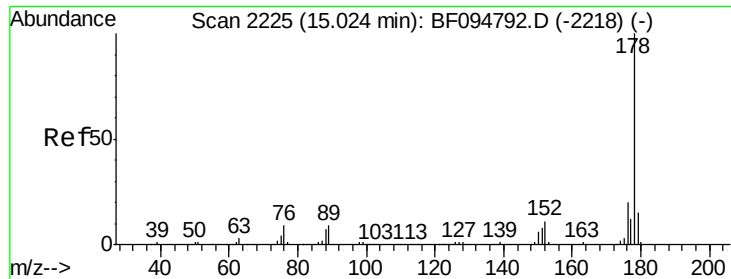
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





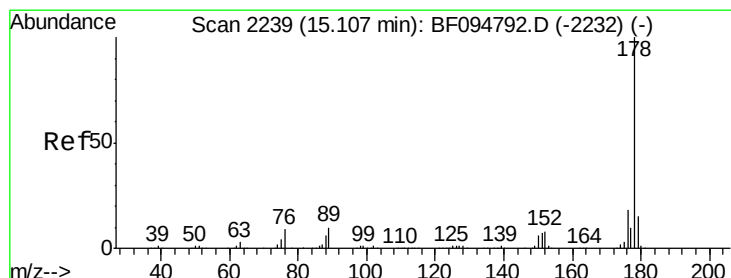
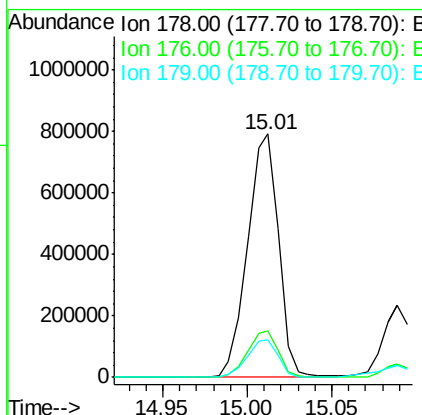
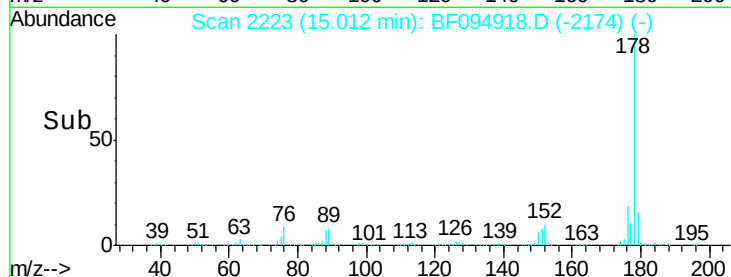
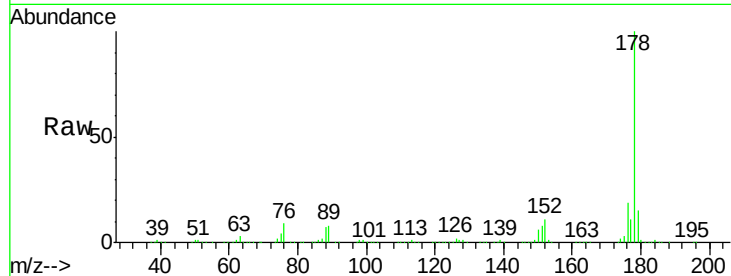
#70
Phenanthrene
Concen: 55.83 ng
RT: 15.01 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

Tgt Ion:178 Resp: 1016818
Ion Ratio Lower Upper
178 100
176 19.0 16.2 24.4
179 15.4 12.6 19.0

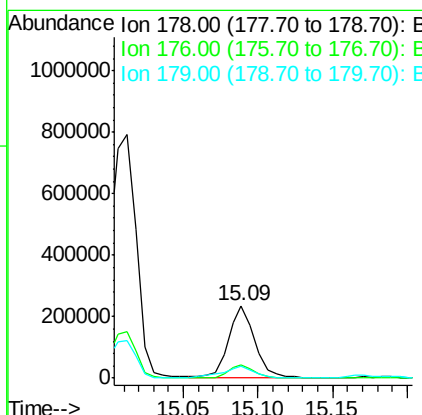
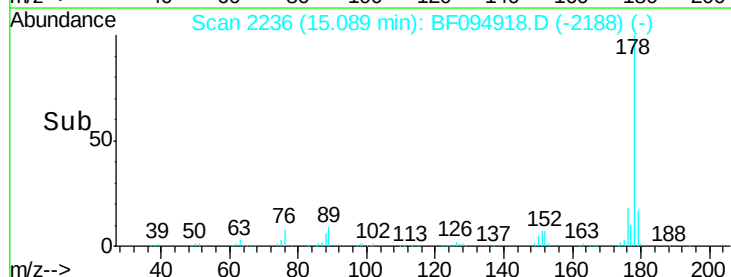
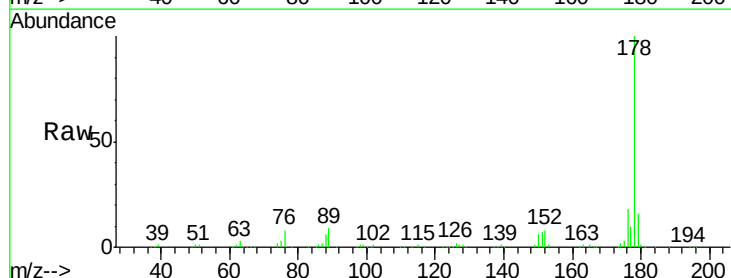
Manual Integrations
APPROVED

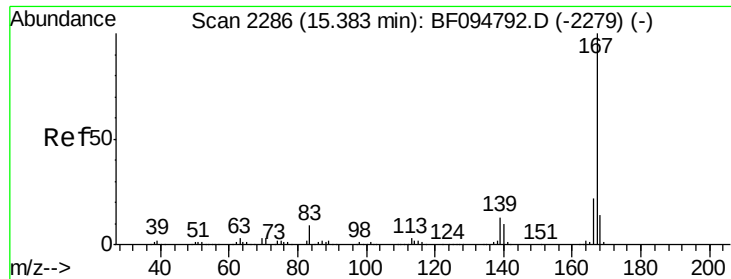
mohammad
5/5/2017 5:23:55 PM



#71
Anthracene
Concen: 15.52 ng
RT: 15.09 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion:178 Resp: 288701
Ion Ratio Lower Upper
178 100
176 18.1 15.8 23.8
179 16.5 12.7 19.1





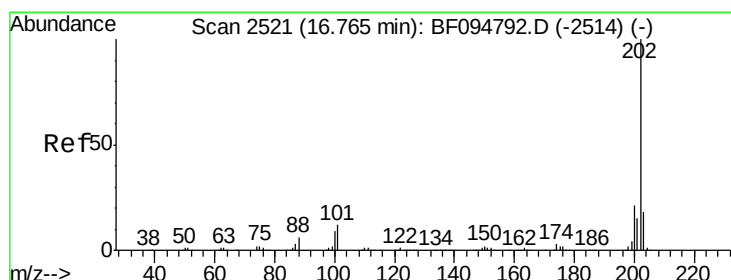
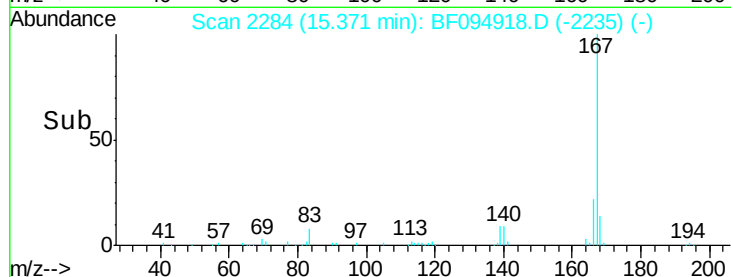
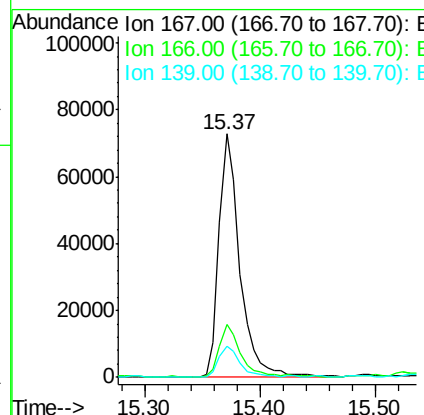
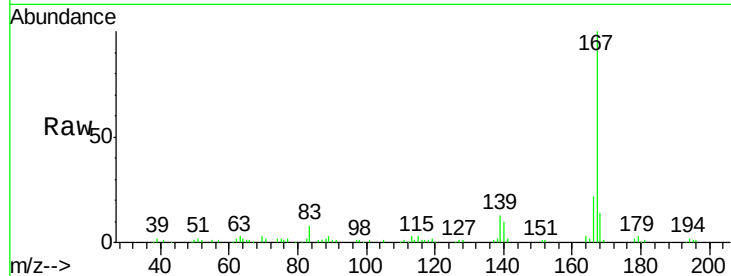
#72
 Carbazole
 Concen: 5.44 ng
 RT: 15.37 min Scan# 2284
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMPDL

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	92085		
166	21.5		18.1	27.1
139	12.7		11.7	17.5

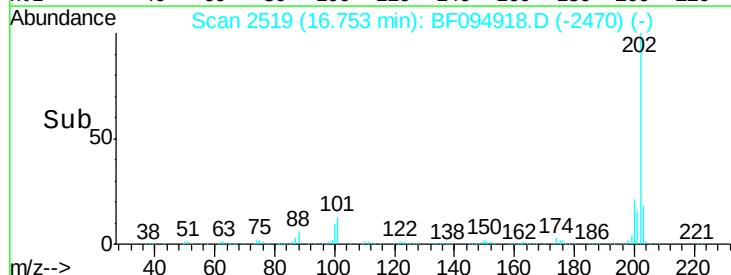
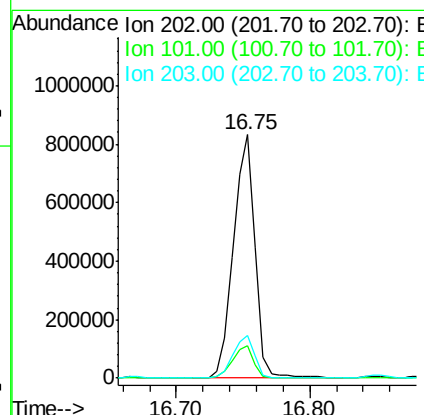
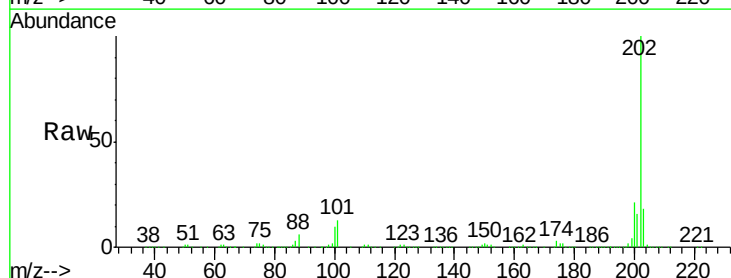
Manual Integrations
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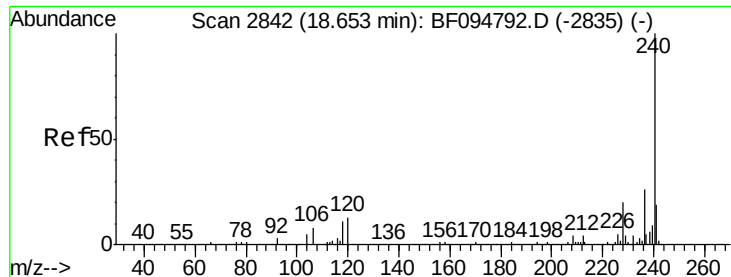
mohammad
 5/5/2017 5:23:55 PM



#74
 Fluoranthene
 Concen: 50.63 ng
 RT: 16.75 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	945970		
101	13.2		0.0	33.2
203	17.6		0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.64 min Scan# 2839

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

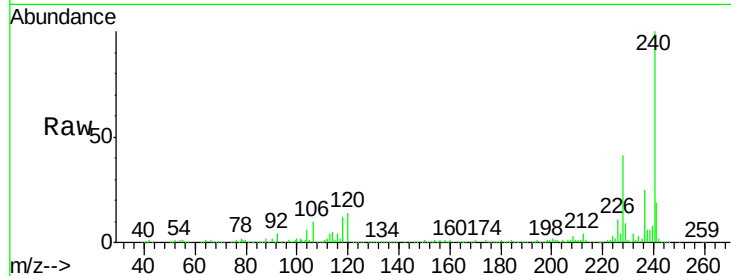
ClientSampleId :

TP7-8-COMPDL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	225474		
120	14.2	5.8	8.8#	
236	24.9	20.5	30.7	

Manual Integrations
APPROVED

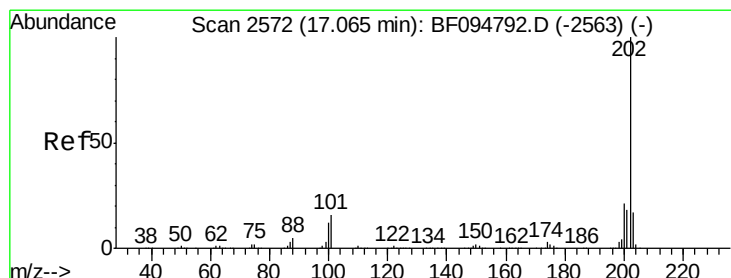
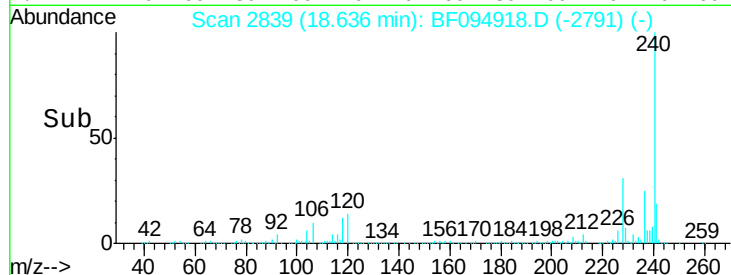
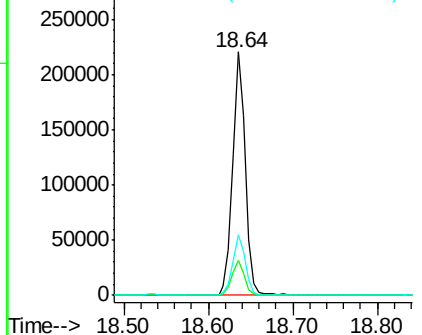
mohammad
5/5/2017 5:23:55 PM



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: 46.67 ng

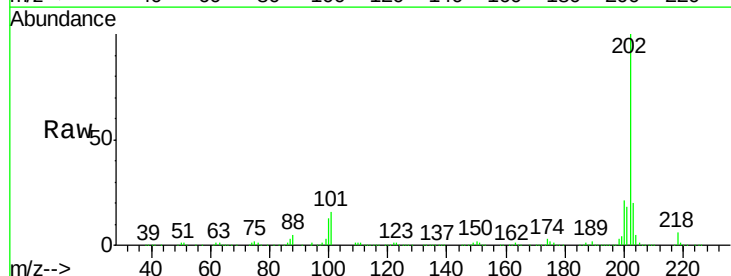
RT: 17.05 min Scan# 2570

Delta R.T. -0.01 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

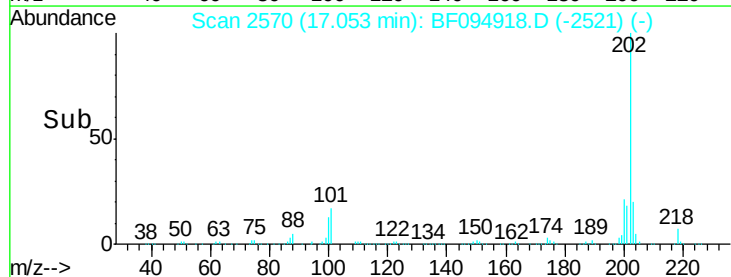
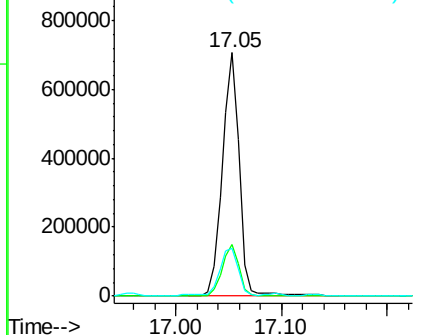
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	786961		
200	21.0	17.6	26.4	
203	19.8	14.4	21.6	

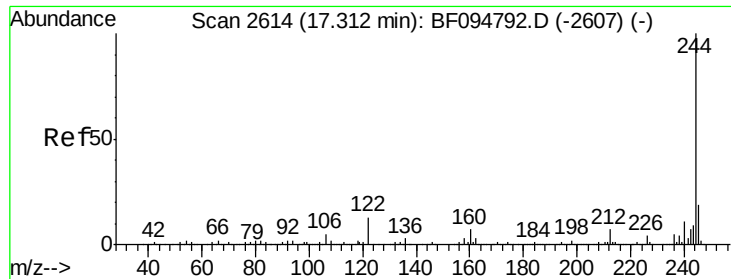


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





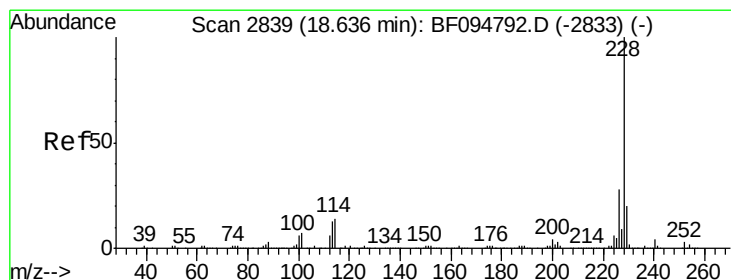
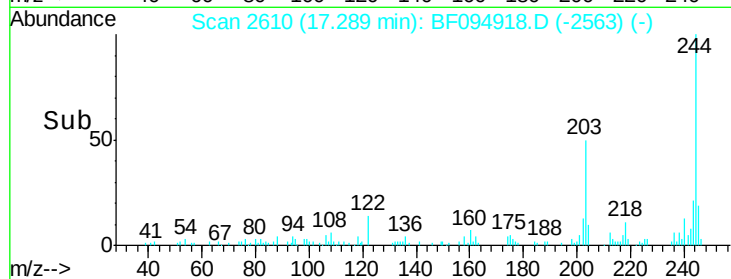
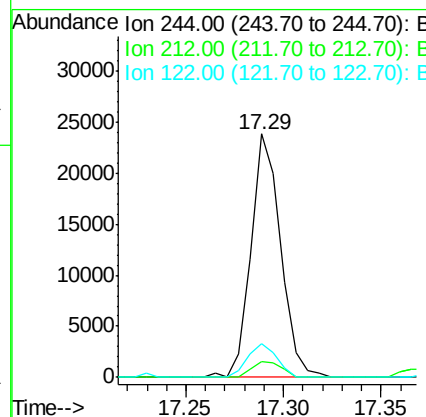
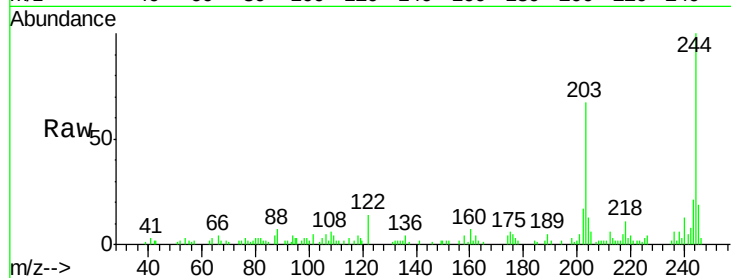
#78
 Terphenyl-d14
 Concen: 2.45 ng
 RT: 17.29 min Scan# 2610
 Delta R.T. -0.02 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMPDL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.4	6.0	9.0
122	13.6	10.3	15.5

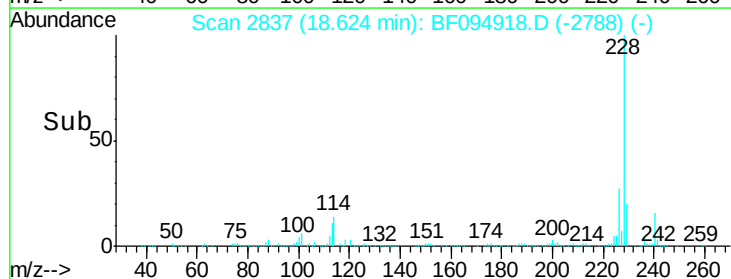
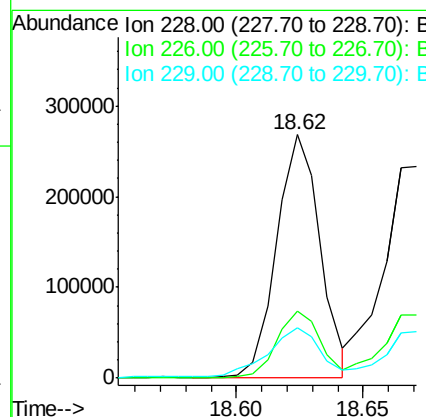
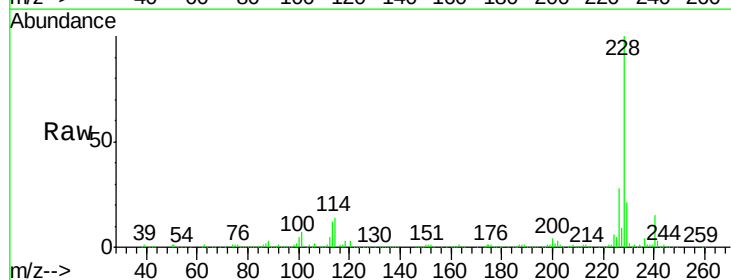
Manual Integrations
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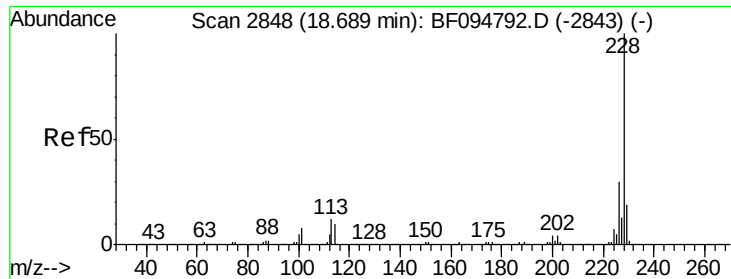
mohammad
 5/5/2017 5:23:55 PM



#80
 Benzo(a)anthracene
 Concen: 24.36 ng
 RT: 18.62 min Scan# 2837
 Delta R.T. -0.01 min
 Lab File: BF094918.D
 Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	27.7	22.6	33.8
229	20.7	16.3	24.5





#82

Chrysene

Concen: 24.21 ng

RT: 18.67 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BF094918.D

Acq: 5 May 2017 15:31

Instrument :

BNA_F

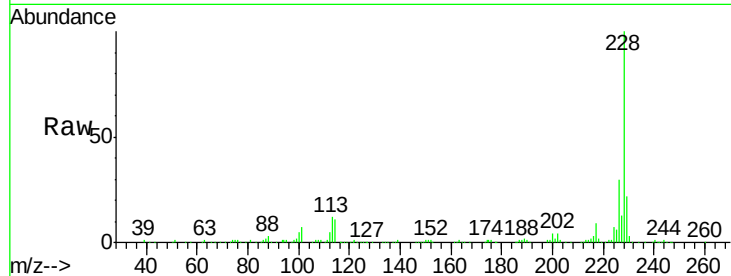
ClientSampleId :

TP7-8-COMPDL

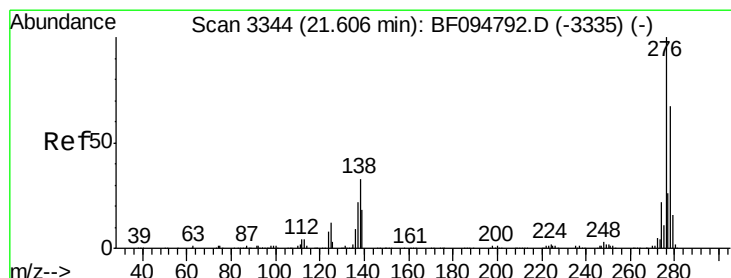
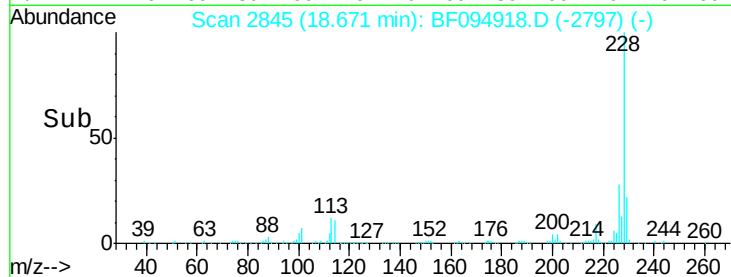
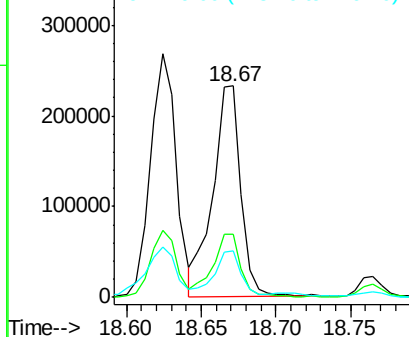
Tgt Ion:	228	Resp:	307210
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.9	37.3
229	22.0	15.8	23.6

Manual Integrations
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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



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.39 ng

RT: 21.59 min Scan# 3341

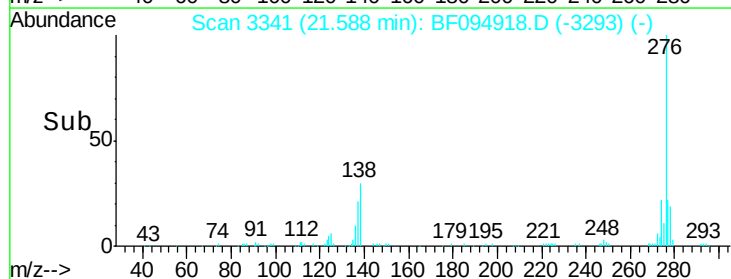
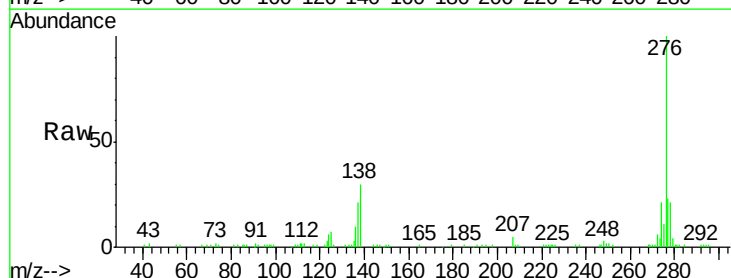
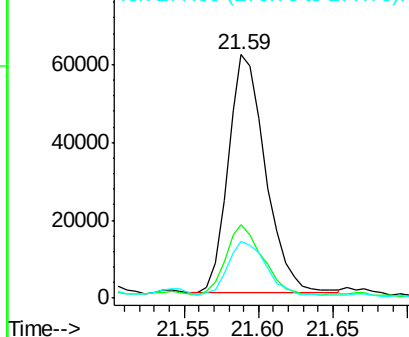
Delta R.T. -0.02 min

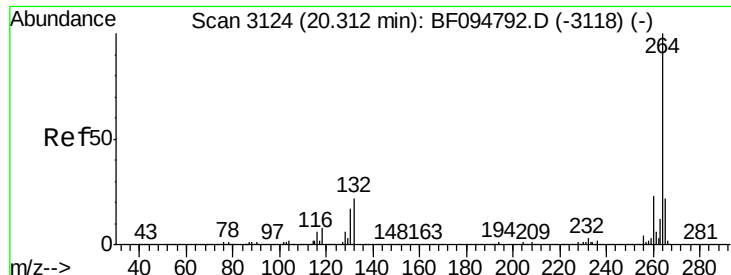
Lab File: BF094918.D

Acq: 5 May 2017 15:31

Tgt Ion:	276	Resp:	107109
Ion Ratio	Lower	Upper	
276	100		
138	30.6	27.8	41.6
277	23.5	20.2	30.4

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





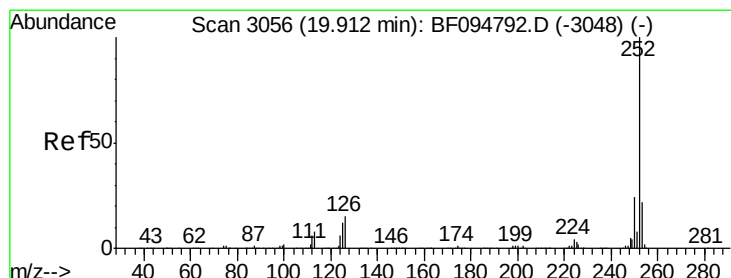
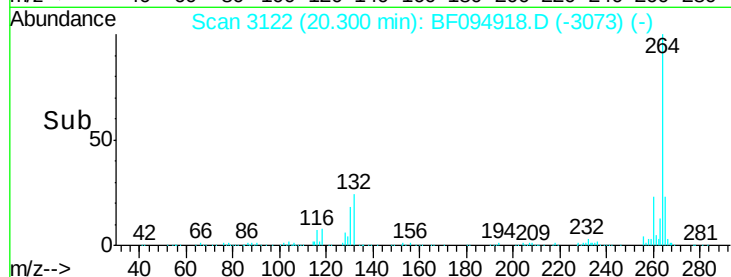
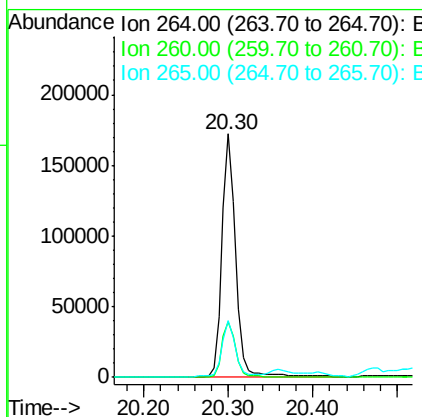
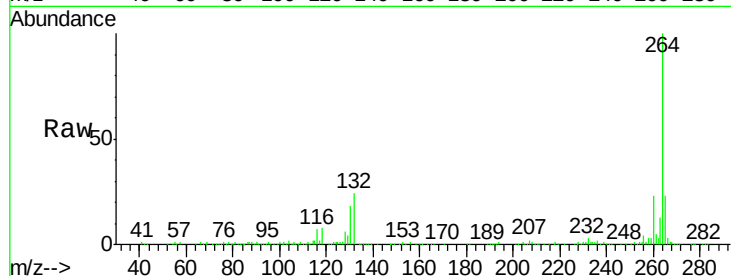
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	198042		
260	23.0		19.5	29.3
265	23.2		17.2	25.8

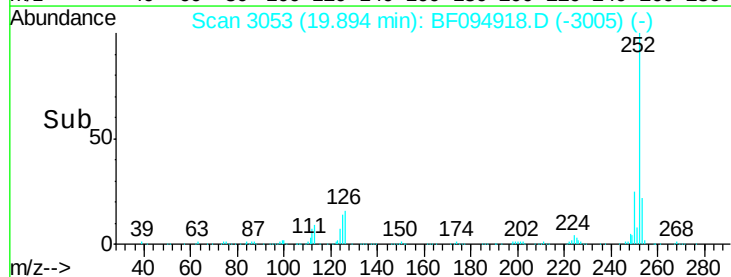
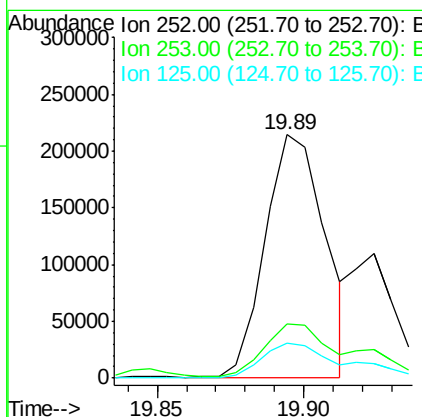
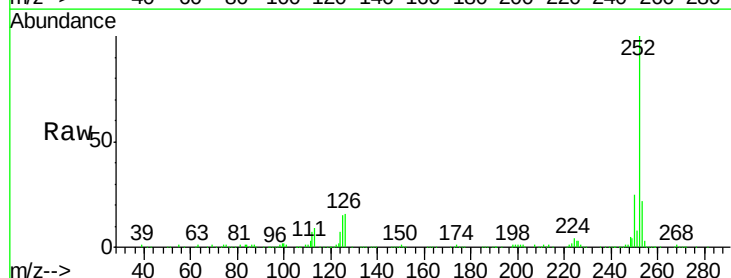
Manual Integrations
APPROVED

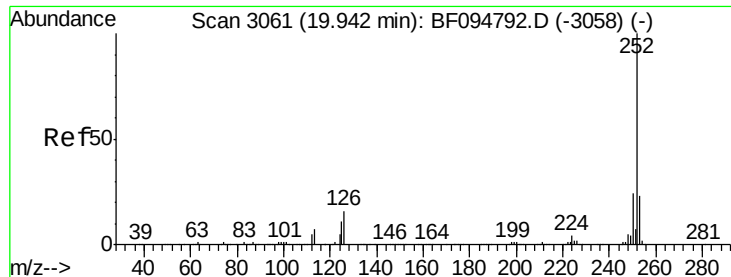
mohammad
5/5/2017 5:23:55 PM



#87
Benzo(b)fluoranthene
Concen: 25.06 ng m
RT: 19.89 min Scan# 3053
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	306638		
253	22.2		18.1	27.1
125	14.6		9.8	14.8





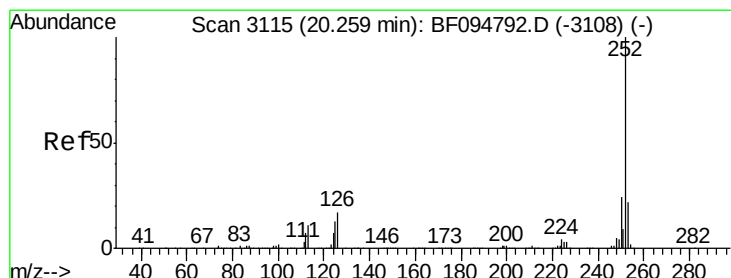
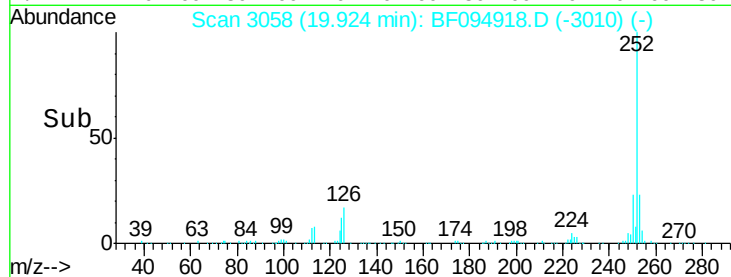
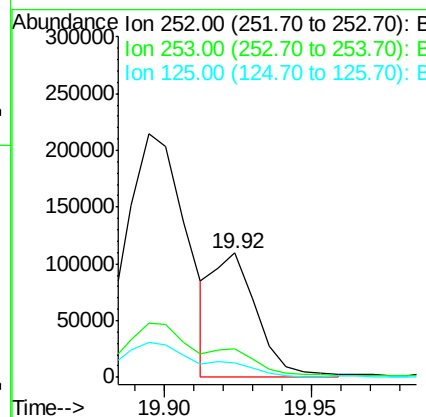
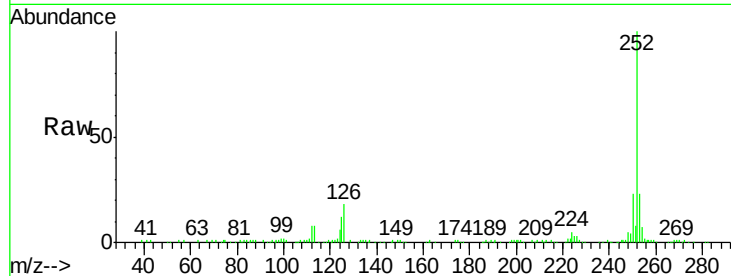
#88
Benzo(k)fluoranthene
Concen: 9.66 ng m
RT: 19.92 min Scan# 3058
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	12.0	13.1	19.7

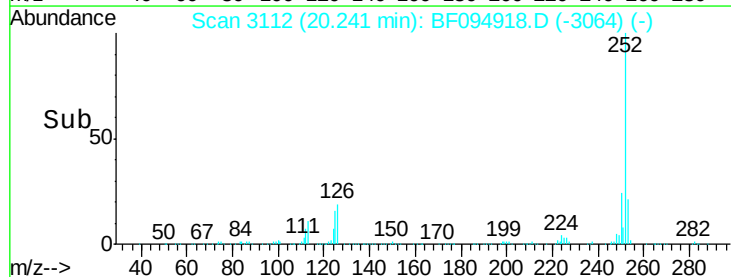
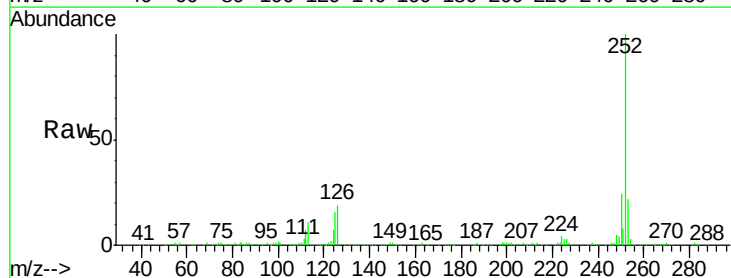
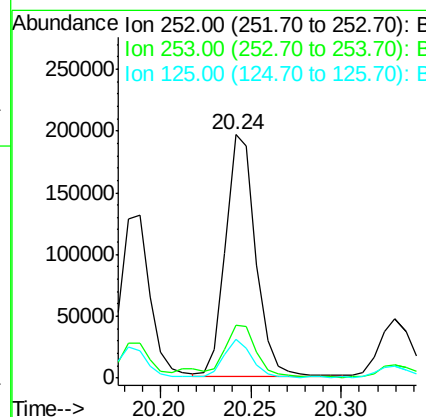
Manual Integrations
APPROVED

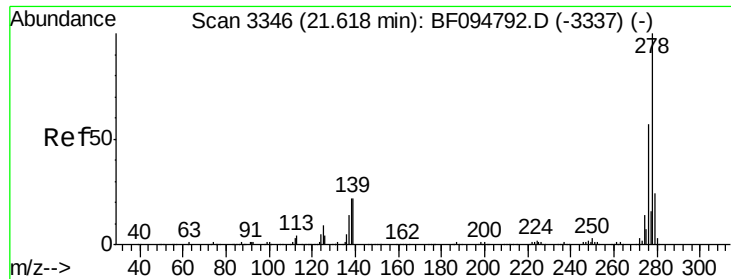
mohammad
5/5/2017 5:23:55 PM



#89
Benzo(a)pyrene
Concen: 20.27 ng
RT: 20.24 min Scan# 3112
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	16.1	11.0	16.4





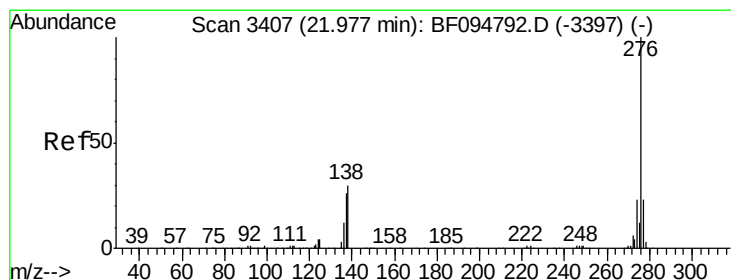
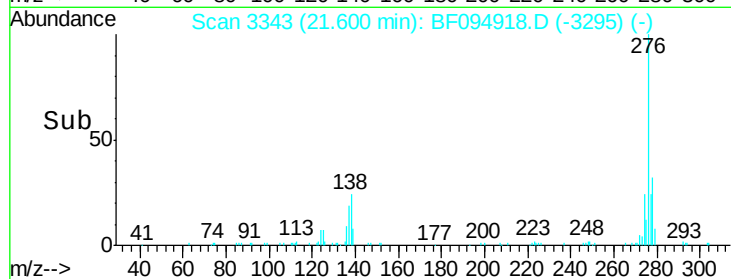
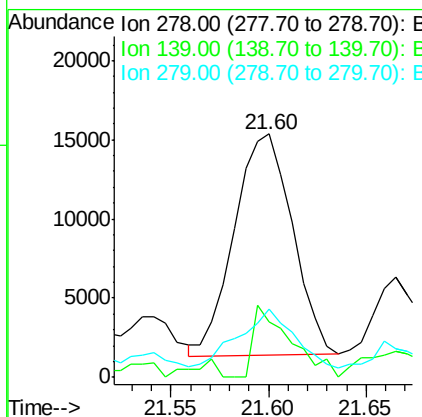
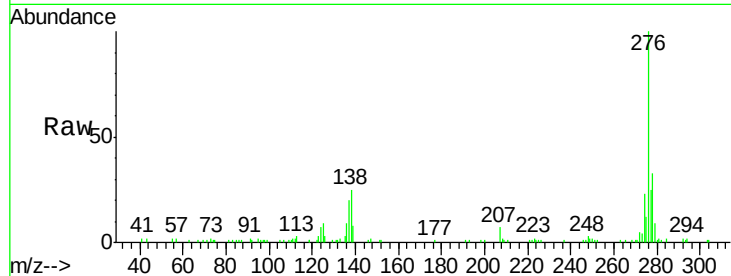
#90
Dibenzo(a,h)anthracene
Concen: 3.11 ng
RT: 21.60 min Scan# 3343
Delta R.T. -0.02 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMPDL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.8	16.6	24.8
279	27.9	19.3	28.9

Manual Integrations
APPROVED

mohammad
5/5/2017 5:23:55 PM



#91
Benzo(g,h,i)perylene
Concen: 11.22 ng
RT: 21.96 min Scan# 3405
Delta R.T. -0.01 min
Lab File: BF094918.D
Acq: 5 May 2017 15:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	30.9	25.4	38.0

