

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF043019\
 Data File : BF114047.D
 Acq On : 30 Apr 2019 17:30
 Operator : JU/SJ
 Sample : K2194-09 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JC-03-042919-E

Manual Integrations
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Sohil
 5/1/2019 11:58:55 AM

Quant Time: May 01 05:36:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 23 03:32:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	109203	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	387824	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	179768	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	342203	20.00	ng	0.00
76) Chrysene-d12	14.06	240	247830	20.00	ng	-0.01
87) Perylene-d12	15.54	264	200825	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	286342	44.85	ng	0.00
7) Phenol-d6	6.52	99	374956	46.81	ng	0.00
23) Nitrobenzene-d5	7.45	82	200823	31.97	ng	-0.01
42) 2,4,6-Tribromophenol	10.72	330	95634	43.67	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	403916	35.14	ng	-0.01
79) Terphenyl-d14	13.00	244	459316	38.00	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.20	128	348047	18.891	ng	98
37) 2-Methylnaphthalene	8.89	142	210935	16.978	ng	99
38) 1-Methylnaphthalene	8.99	142	153582	12.808	ng	99
46) 1,1'-Biphenyl	9.35	154	46568	3.391	ng	97
50) Dimethylphthalate	9.64	163	51451	3.957	ng	97
52) Acenaphthene	9.96	154	111185	10.761	ng	96
55) Dibenzofuran	10.13	168	81606	5.273	ng	97
58) Fluorene	10.47	166	226655	19.451	ng	100
71) Phenanthrene	11.45	178	1177130	68.447	ng	100
72) Anthracene	11.49	178	371320	21.381	ng	98
73) Carbazole	11.64	167	66652	4.302	ng	99
75) Fluoranthene	12.63	202	977223	52.082	ng	98
78) Pyrene	12.86	202	1082551	62.463	ng	99
81) Benzo(a)anthracene	14.04	228	492047	33.698	ng	98
83) Chrysene	14.09	228	426794	30.012	ng	97
86) Indeno(1,2,3-cd)pyrene	17.04	276	113671	8.439	ng	95
88) Benzo(b)fluoranthene	15.12	252	349480m	27.505	ng	
89) Benzo(k)fluoranthene	15.14	252	80536m	7.369	ng	
90) Benzo(a)pyrene	15.49	252	251960	22.926	ng	98
91) Dibenzo(a,h)anthracene	17.04	278	34794	3.373	ng	# 81
92) Benzo(g,h,i)perylene	17.49	276	116762	11.215	ng	96

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

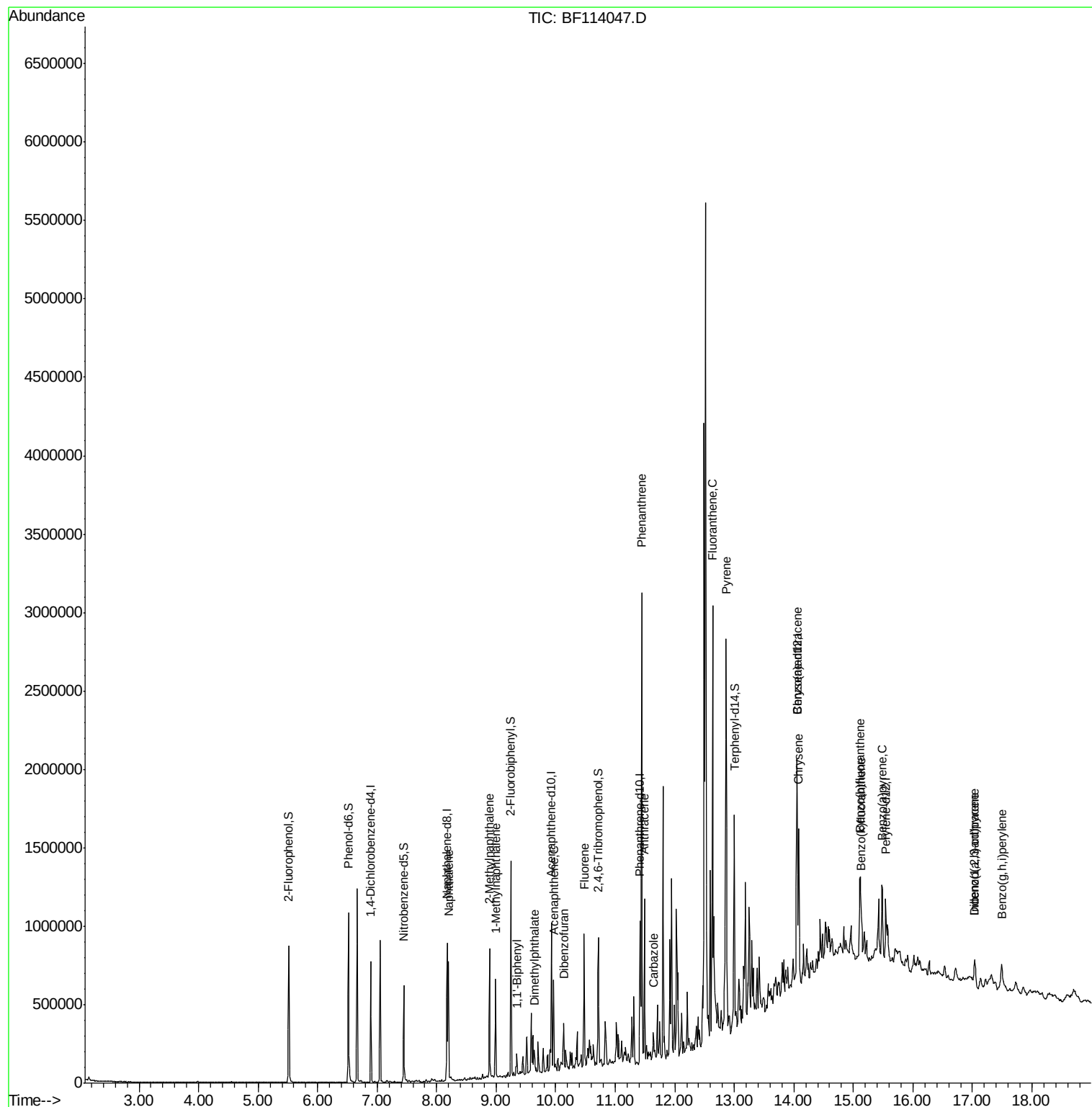
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF043019\
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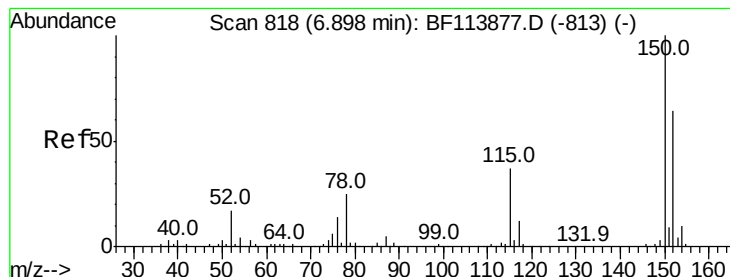
Instrument :
BNA_F
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JC-03-042919-E

Quant Time: May 01 05:36:14 2019
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#1

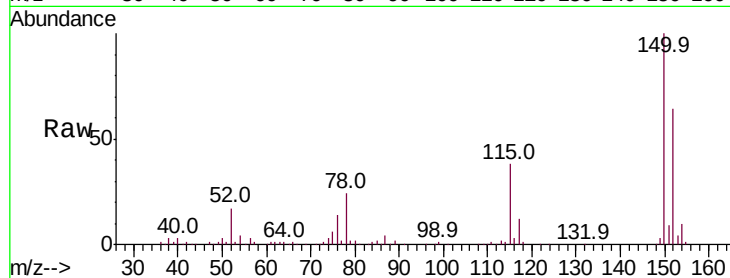
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	125.9	188.9
115	59.6	45.9	68.9

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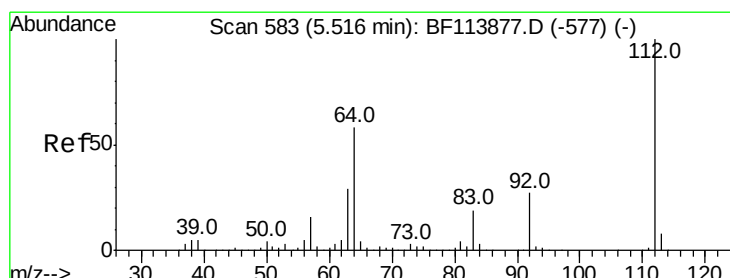
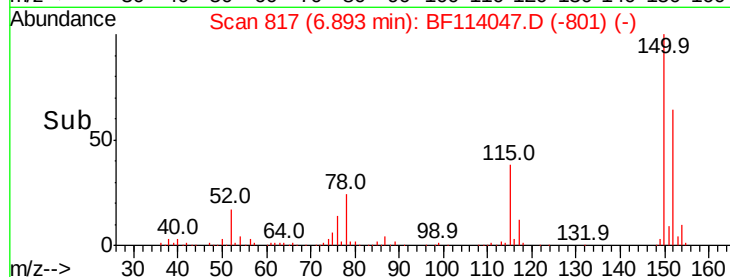
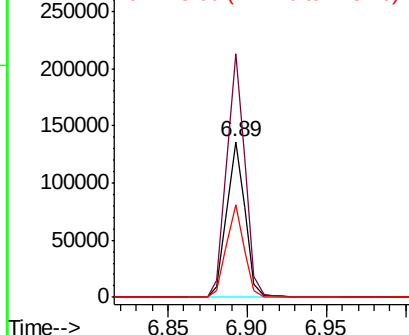


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

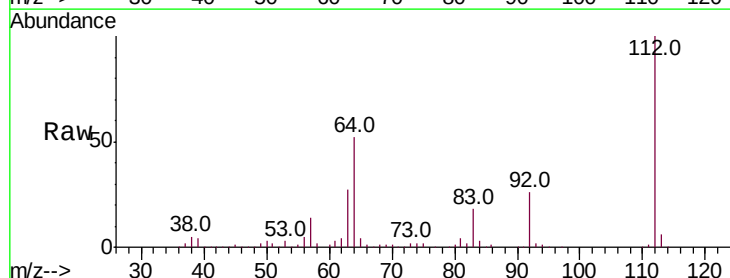
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 44.847 ng
RT: 5.52 min Scan# 583
Delta R.T. 0.00 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.6	46.6	69.8
63	26.7	23.1	34.7

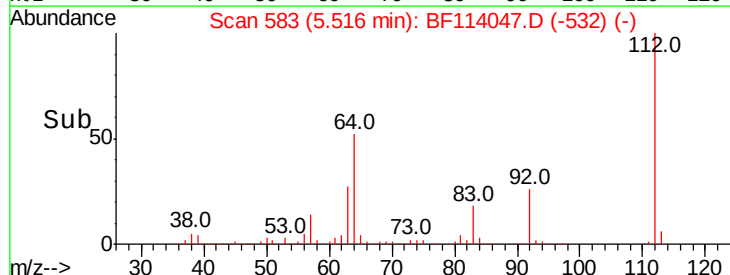
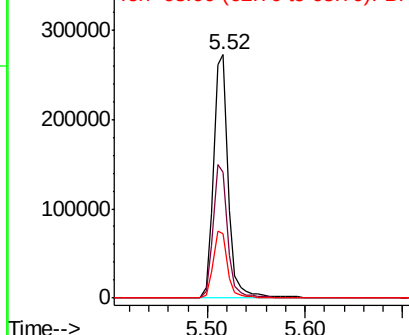


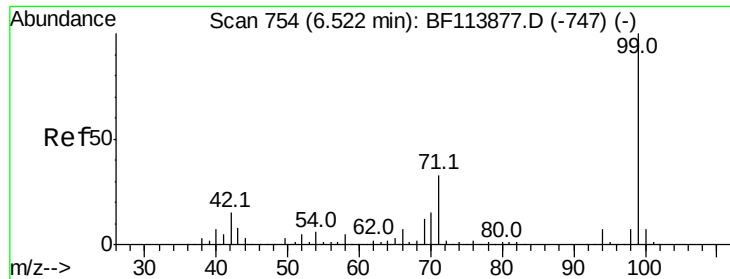
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 46.808 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Instrument :

BNA_F

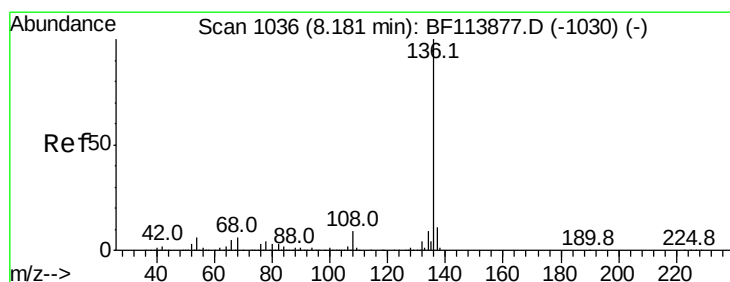
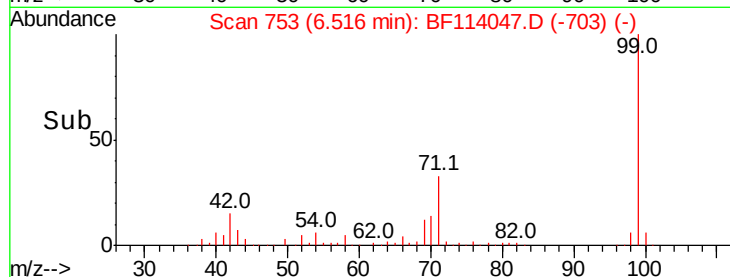
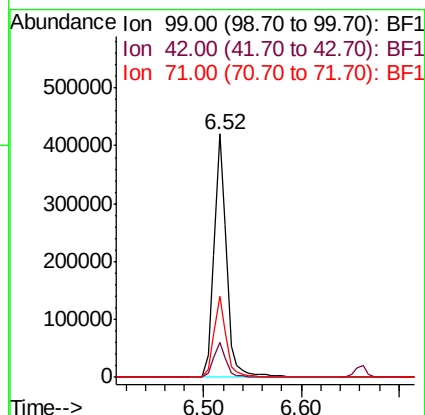
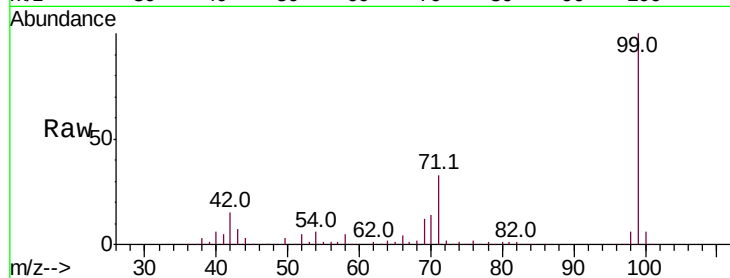
ClientSampleId :

JC-03-042919-E

Tot Ion	Ratio	Lower	Upper
99	100		
42	14.6	12.5	18.7
71	33.4	26.9	40.3

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#21

Naphthalene-d8

Concen: 20.000 ng

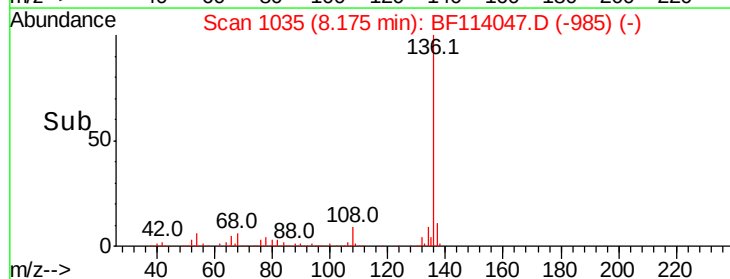
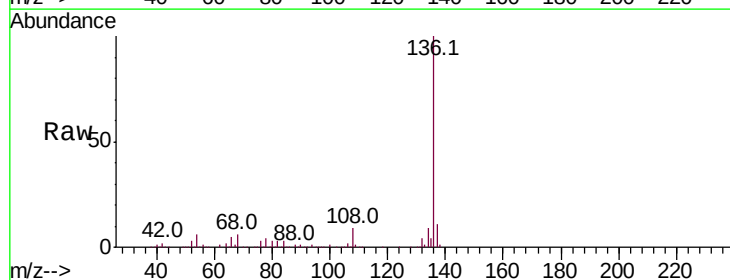
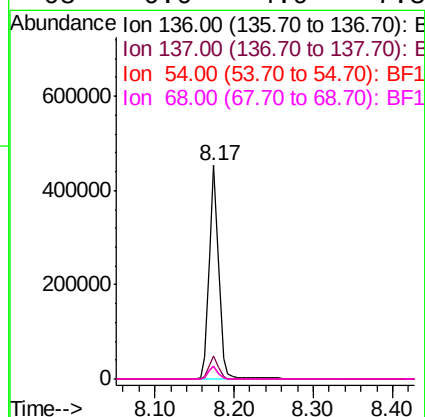
RT: 8.17 min Scan# 1035

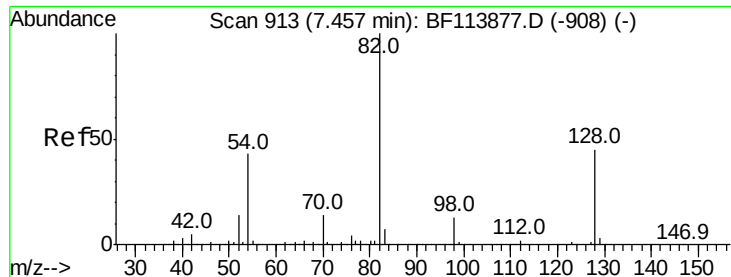
Delta R.T. -0.01 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	6.0	5.0	7.6
68	6.0	4.9	7.3





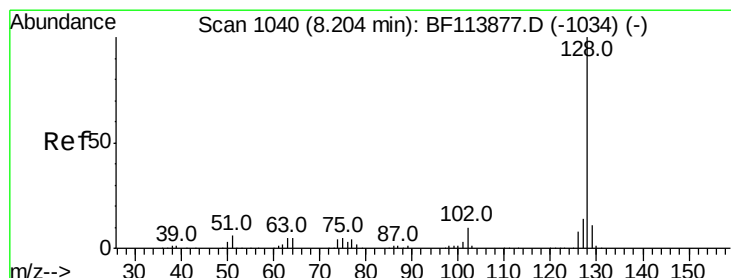
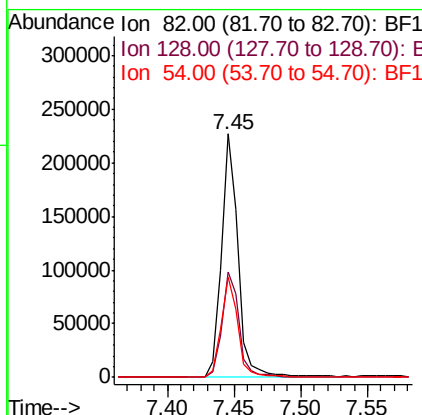
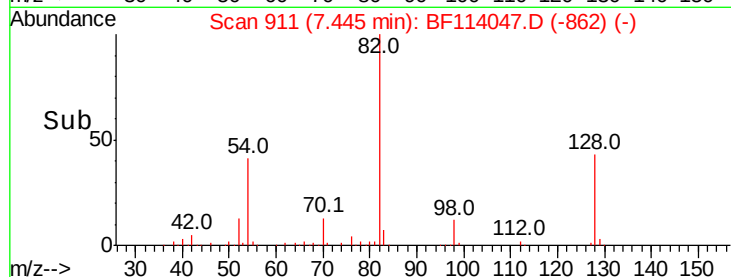
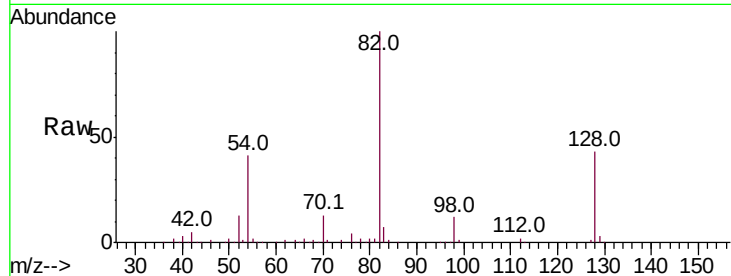
#23
 Nitrobenzene-d5
 Concen: 31.972 ng
 RT: 7.45 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: BF114047.D
 Acq: 30 Apr 2019 17:30

Instrument :
 BNA_F
 ClientSampleId :
 JC-03-042919-E

Tot Ion	82	Resp	200823
Ion Ratio	Lower	Upper	
82	100		
128	43.1	36.8	55.2
54	41.2	33.8	50.6

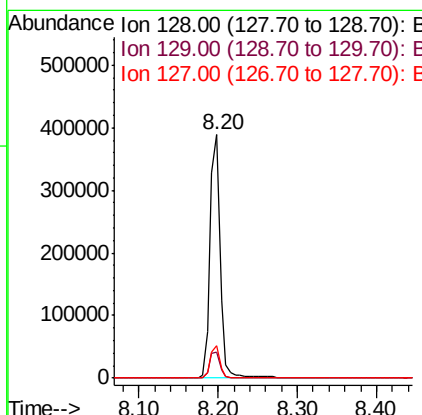
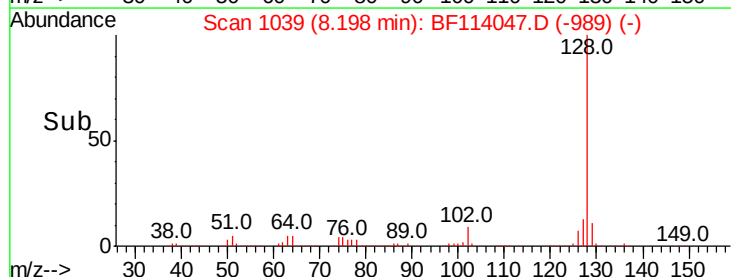
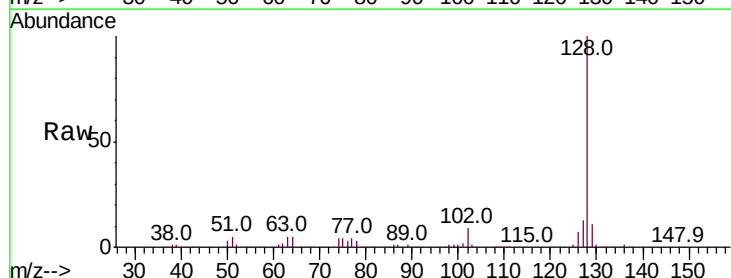
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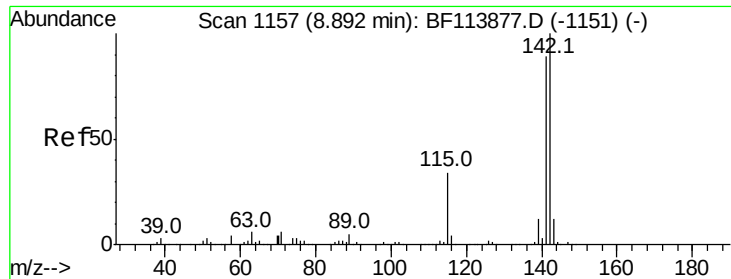
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#31
 Naphthalene
 Concen: 18.891 ng
 RT: 8.20 min Scan# 1039
 Delta R.T. -0.01 min
 Lab File: BF114047.D
 Acq: 30 Apr 2019 17:30

Tgt Ion	128	Resp	348047
Ion Ratio	Lower	Upper	
128	100		
129	10.8	9.4	14.0
127	13.2	10.8	16.2





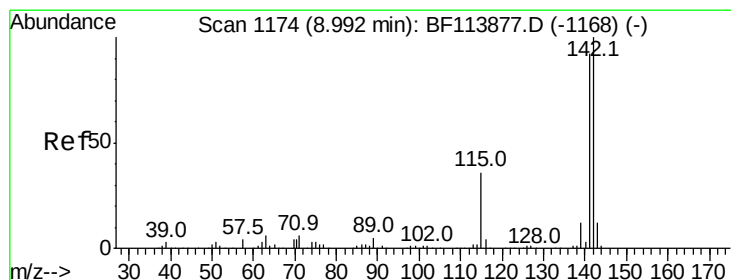
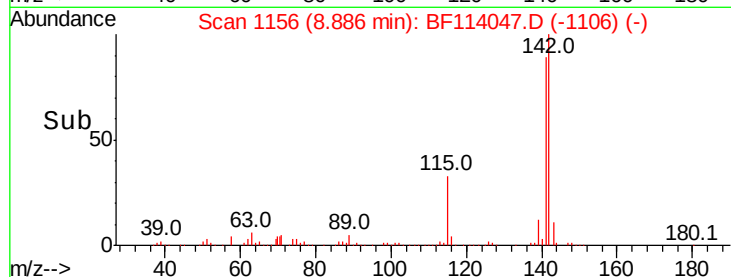
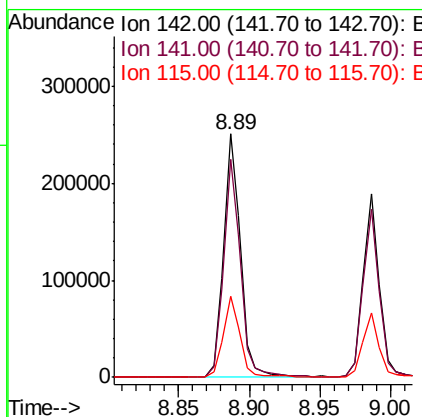
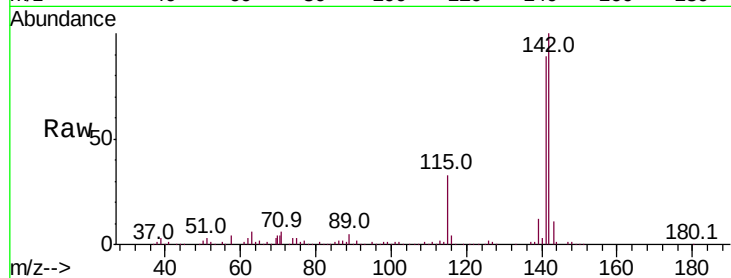
#37
2-Methylnaphthalene
Concen: 16.978 ng
RT: 8.89 min Scan# 1156
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Resp	Lower	Upper
142	100	210935		
141	89.3		70.4	105.6
115	33.3		26.3	39.5

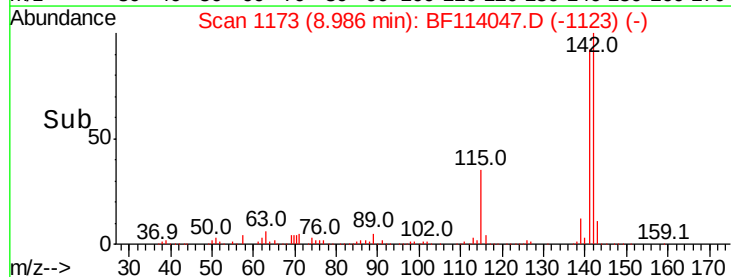
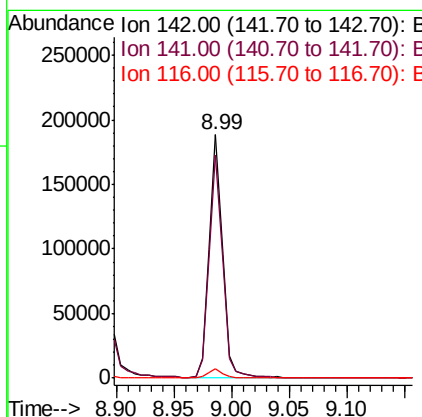
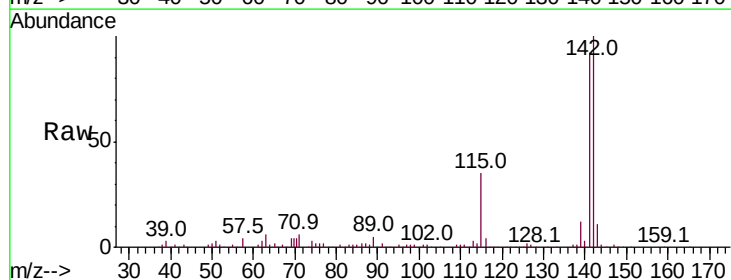
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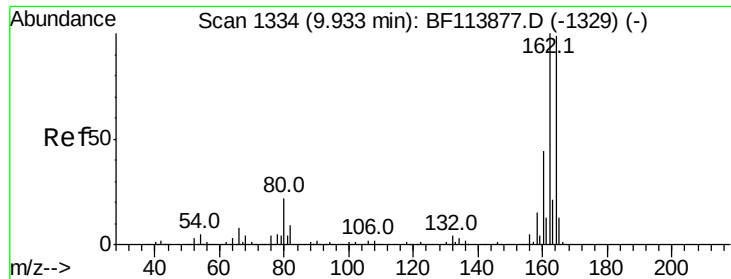
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#38
1-Methylnaphthalene
Concen: 12.808 ng
RT: 8.99 min Scan# 1173
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	153582		
141	91.7		72.3	108.5
116	3.7		3.0	4.4





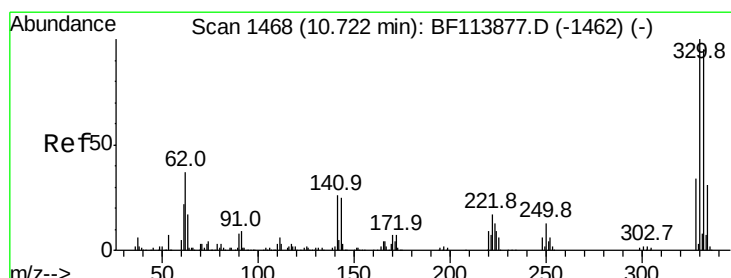
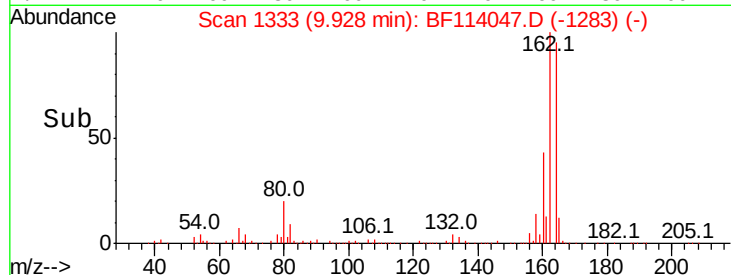
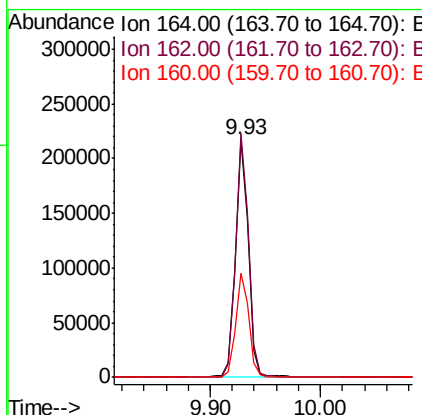
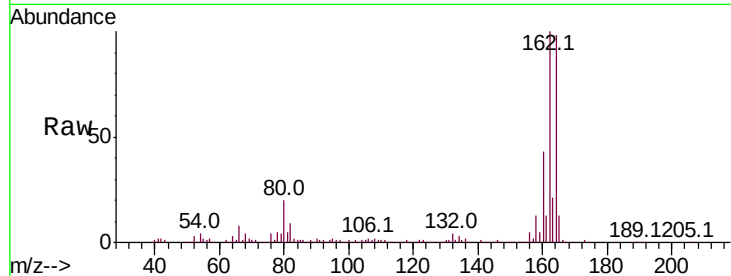
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.5	81.1	121.7	
160	44.0	35.8	53.6	

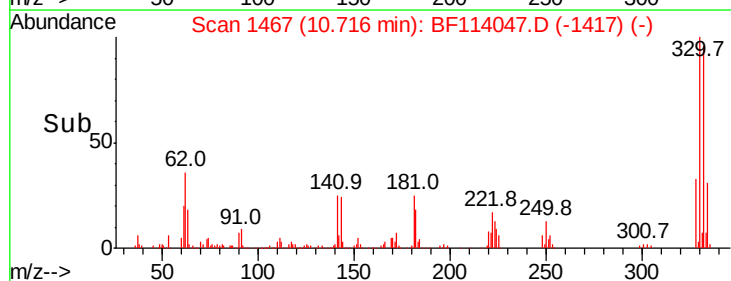
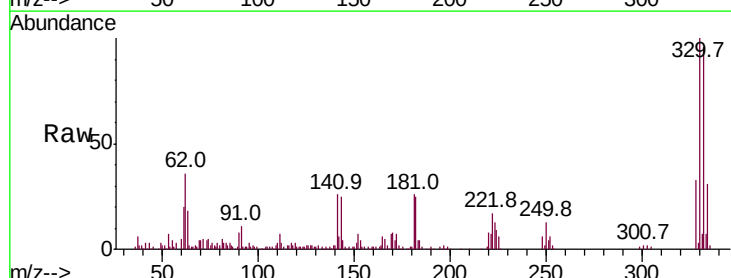
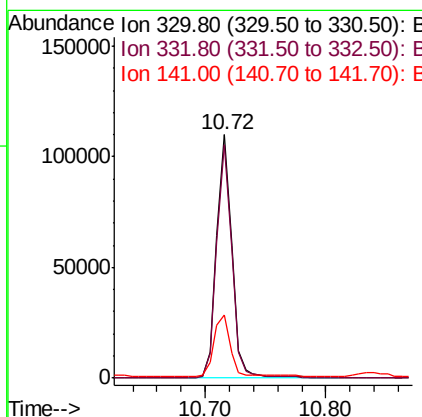
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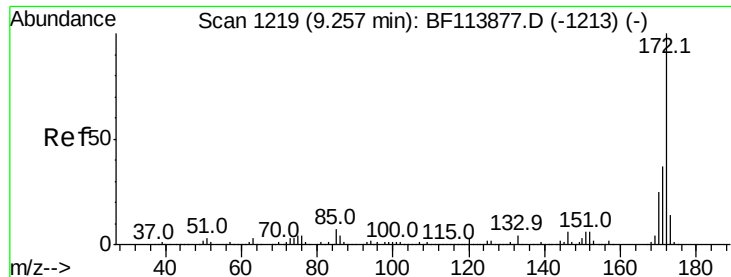
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#42
2,4,6-Tribromophenol
Concen: 43.670 ng
RT: 10.72 min Scan# 1467
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.7	77.5	116.3	
141	26.2	22.2	33.2	





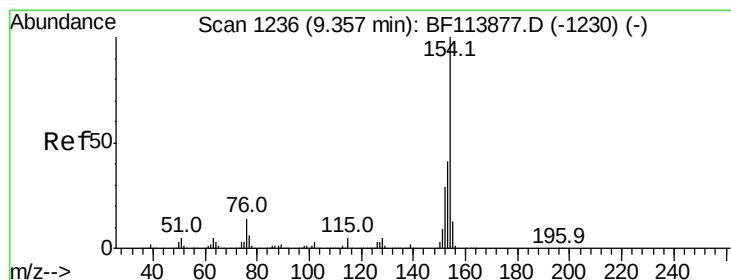
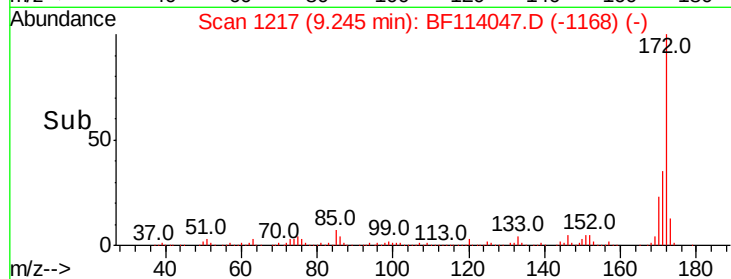
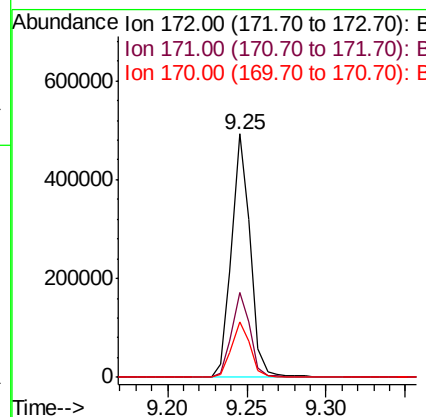
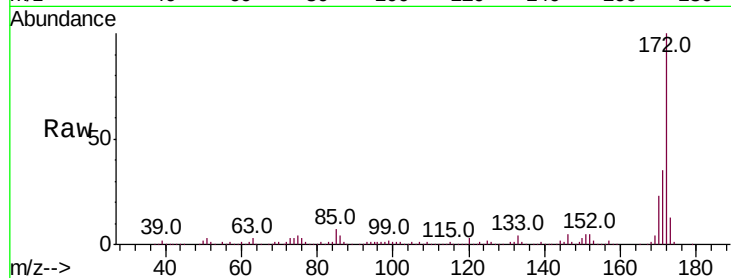
#45
2-Fluorobiphenyl
Concen: 35.142 ng
RT: 9.25 min Scan# 1217
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.0	29.4	44.0	
170	23.0	19.9	29.9	

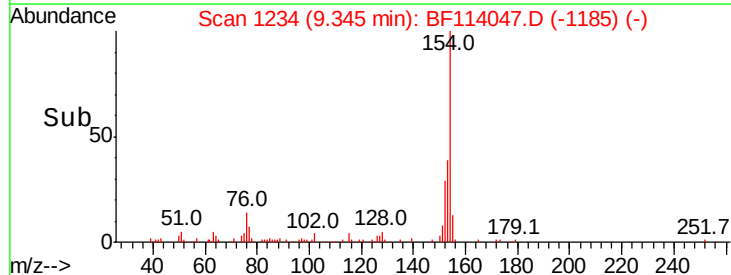
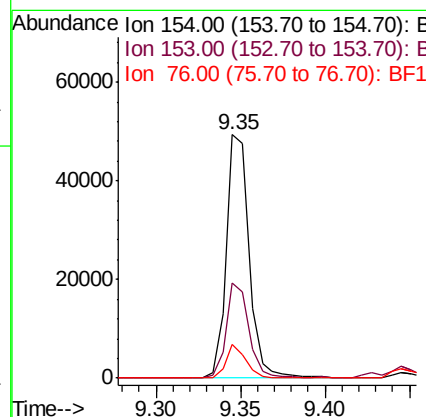
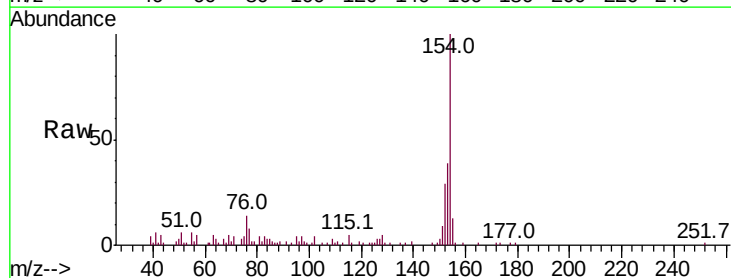
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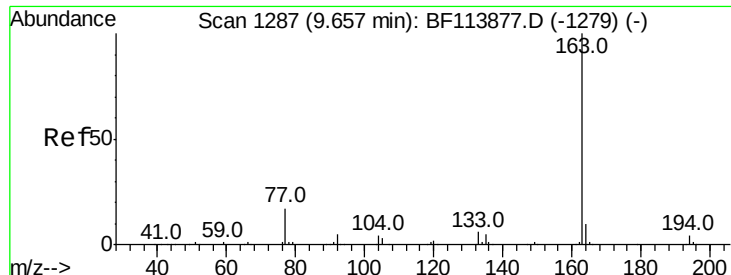
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#46
1,1'-Biphenyl
Concen: 3.391 ng
RT: 9.35 min Scan# 1234
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	39.3	20.8	60.8	
76	13.9	0.0	35.2	





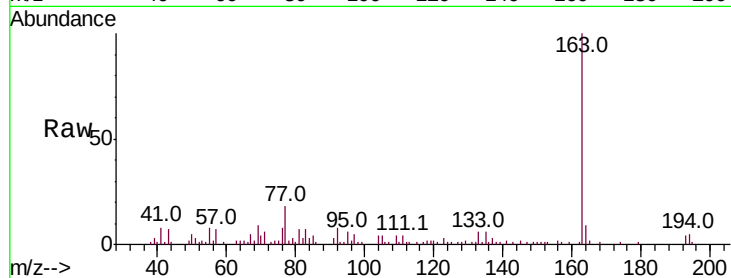
#50
Dimethylphthalate
Concen: 3.957 ng
RT: 9.64 min Scan# 1284
Delta R.T. -0.02 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.4	5.2
164	9.1	8.5	12.7

Manual Integrations
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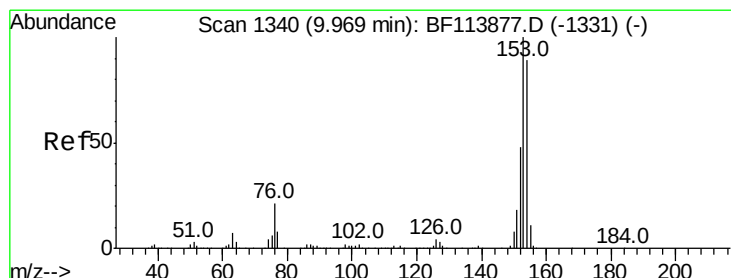
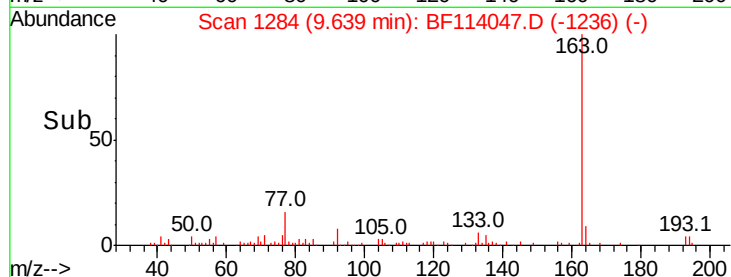
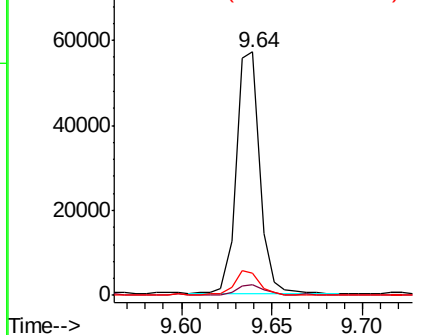


Abundance

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: 10.761 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

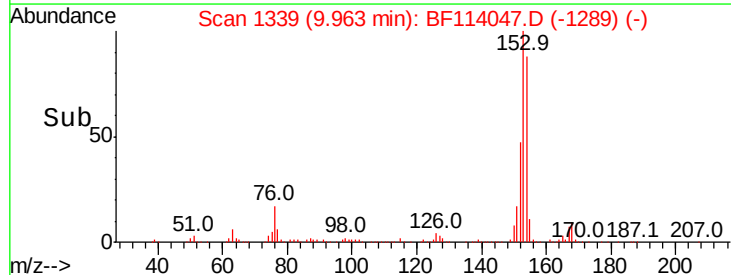
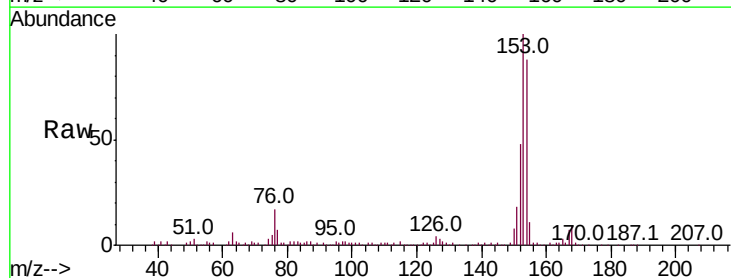
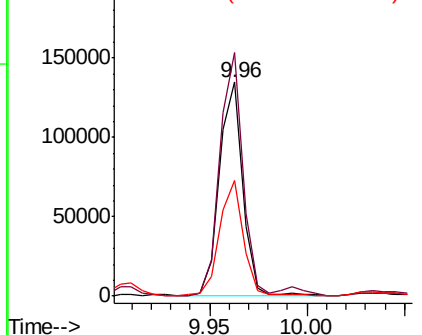
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.8	87.2	130.8
152	54.2	42.3	63.5

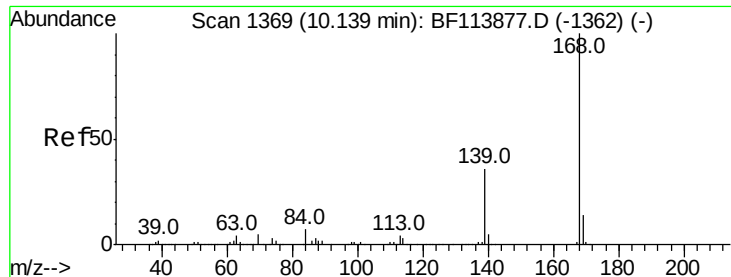
Abundance

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





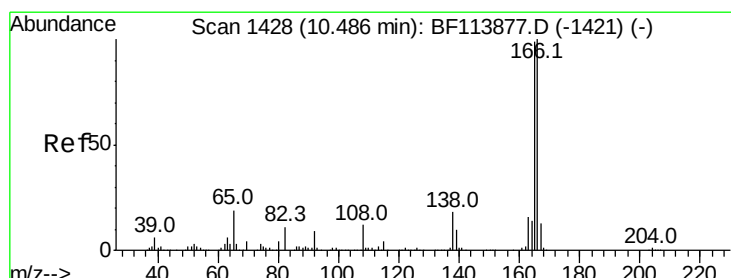
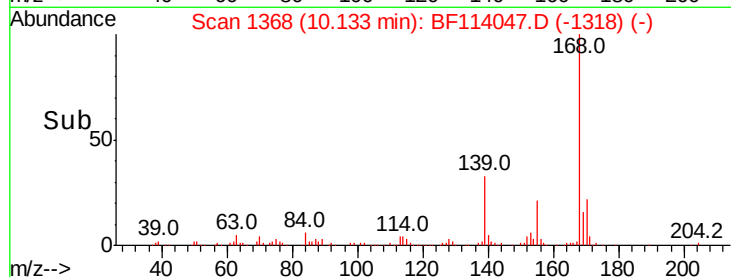
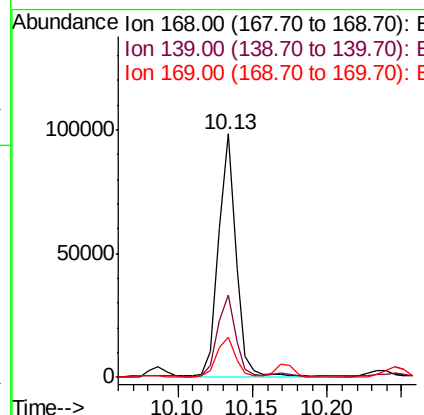
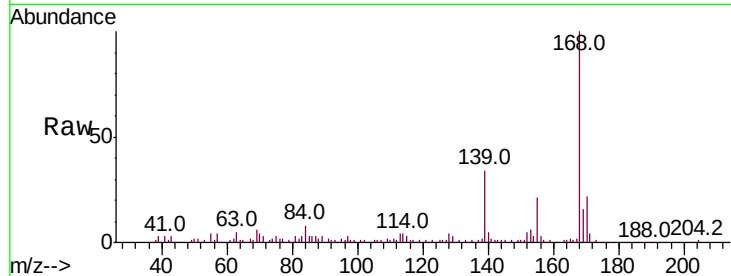
#55
Dibenzofuran
Concen: 5.273 ng
RT: 10.13 min Scan# 1368
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Lower	Upper
168	100		
139	33.7	27.8	41.6
169	16.5	11.0	16.6

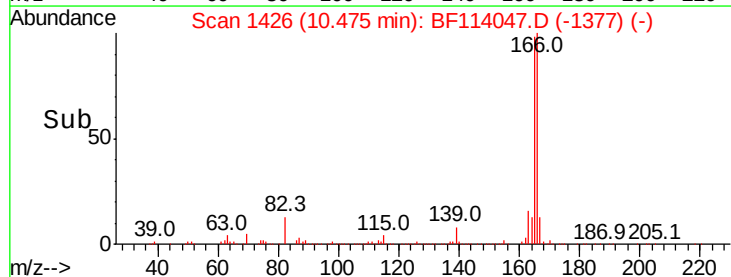
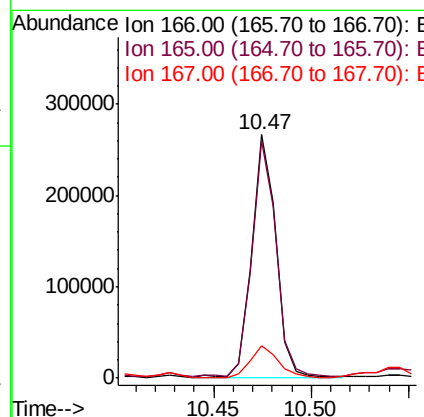
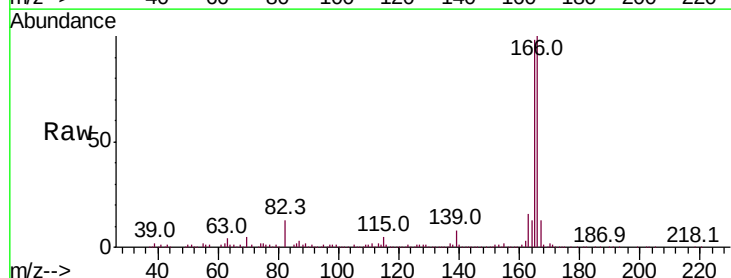
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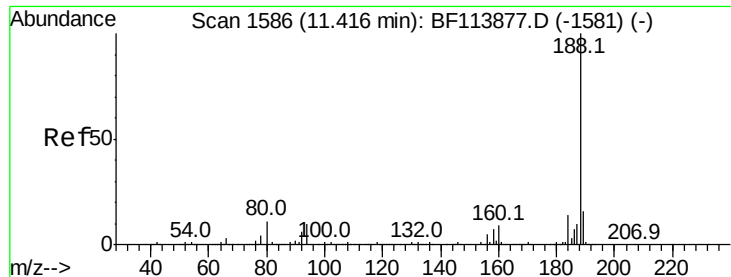
Sohil
5/1/2019 11:58:55 AM



#58
Fluorene
Concen: 19.451 ng
RT: 10.47 min Scan# 1426
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.4	117.6
167	13.3	10.9	16.3





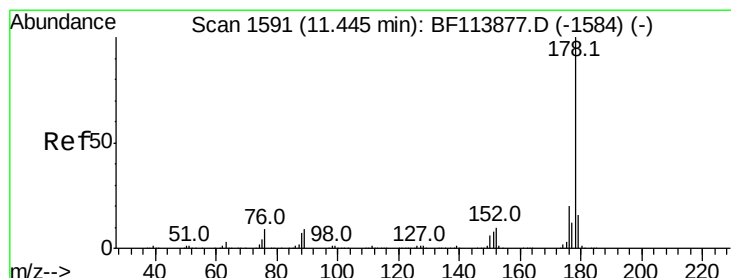
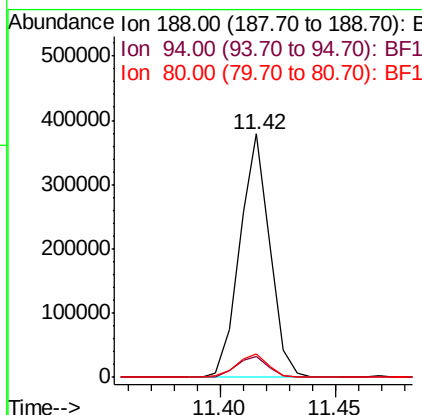
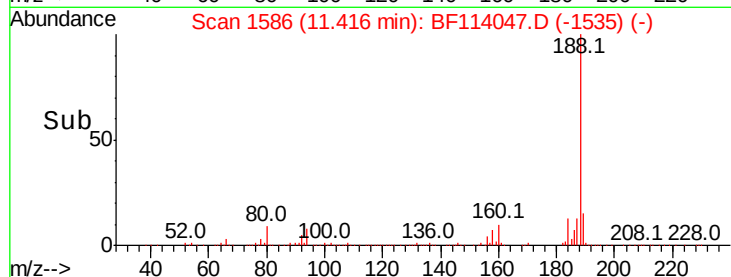
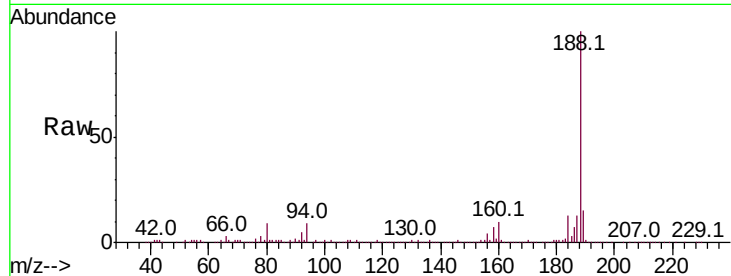
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.42 min Scan# 1586
Delta R.T. 0.00 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Resp	Lower	Upper
188	100	342203		
94	8.5		8.2	12.4
80	9.4		9.0	13.6

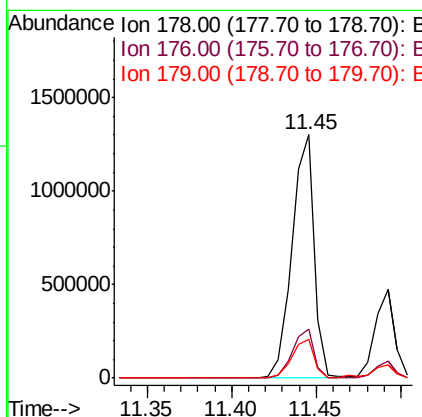
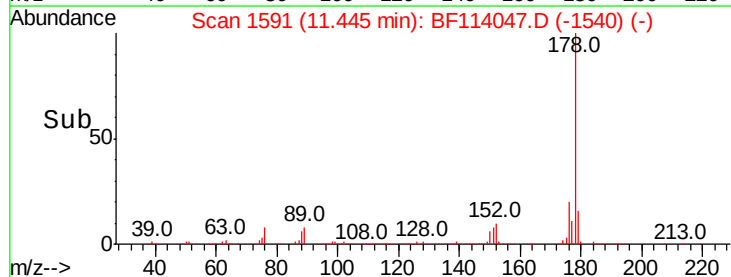
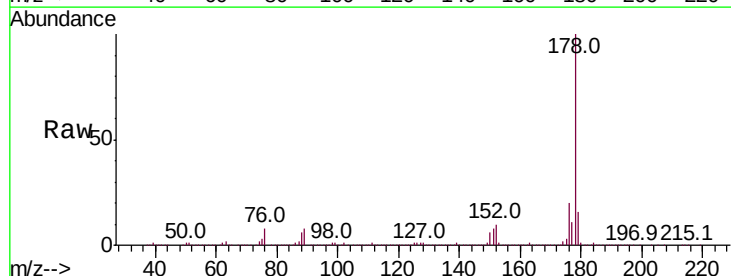
Manual Integrations
APPROVED

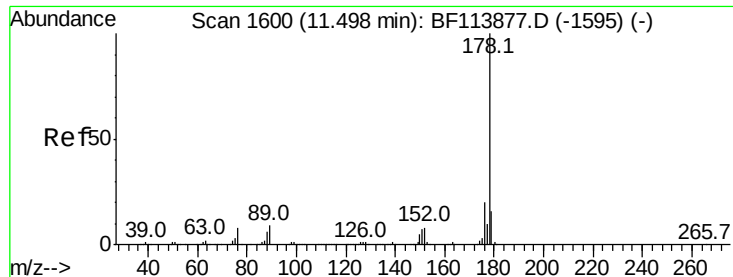
Sohil
5/1/2019 11:58:55 AM



#71
Phenanthrene
Concen: 68.447 ng
RT: 11.45 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1177130		
176	20.1		16.1	24.1
179	15.7		12.8	19.2





#72

Anthracene

Concen: 21.381 ng

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Instrument :

BNA_F

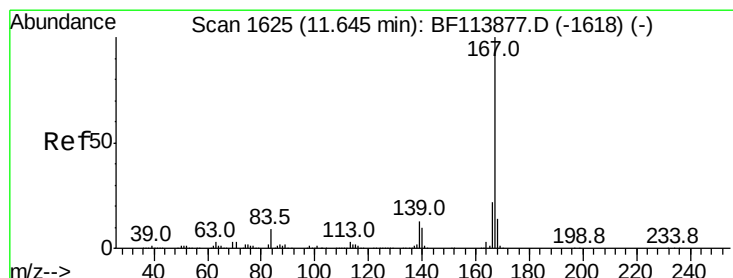
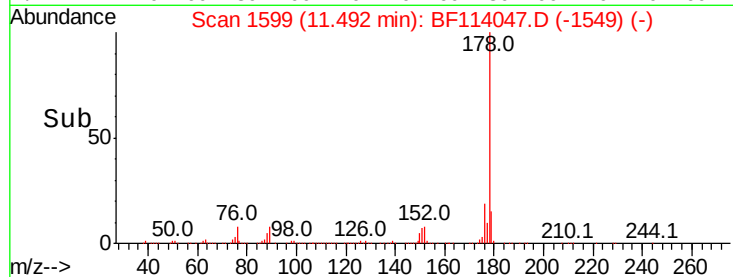
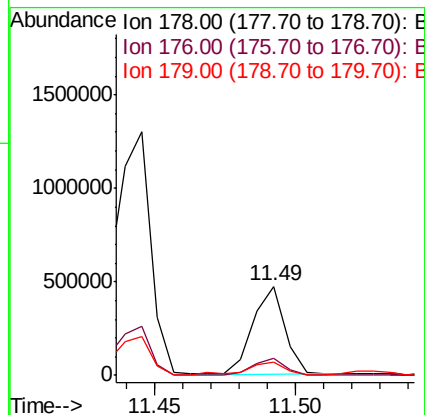
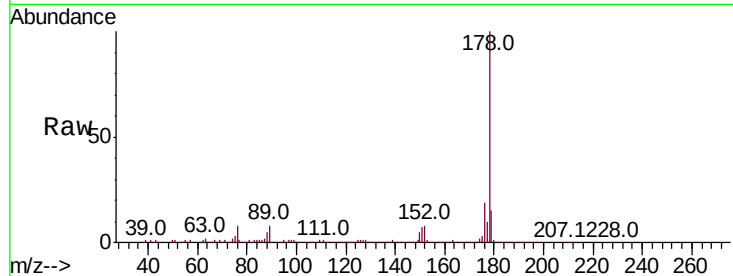
ClientSampleId :

JC-03-042919-E

Tot Ion:	178	Resp:	371320
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.7	23.5
179	15.5	13.0	19.4

Manual Integrations
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#73

Carbazole

Concen: 4.302 ng

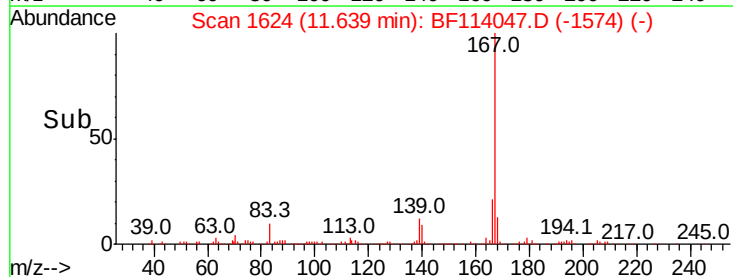
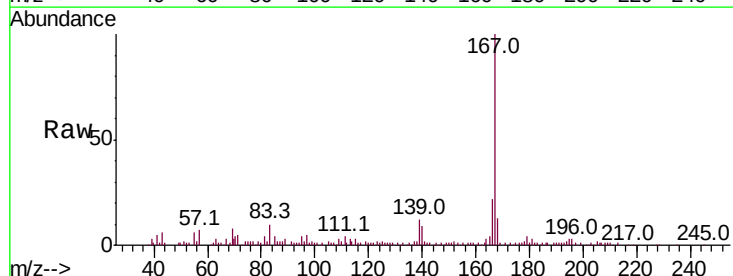
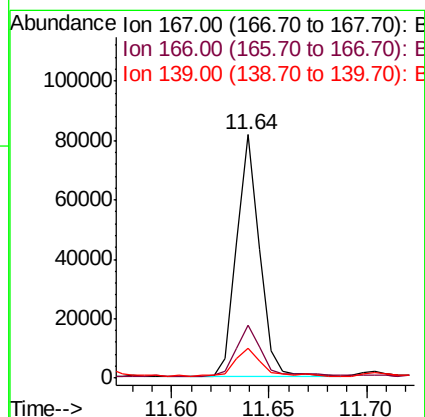
RT: 11.64 min Scan# 1624

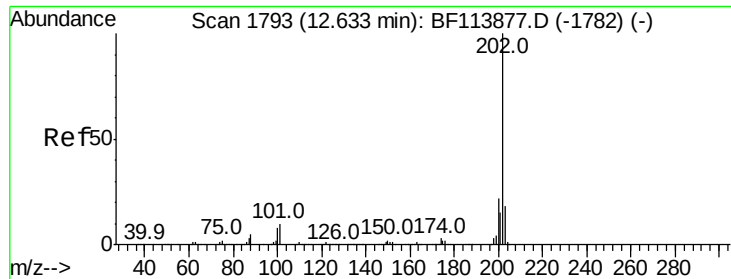
Delta R.T. -0.01 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Tgt Ion:	167	Resp:	66652
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.7	26.5
139	12.4	10.0	15.0





#75

Fluoranthene

Concen: 52.082 ng

RT: 12.63 min Scan# 1793

Delta R.T. 0.00 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Instrument :

BNA_F

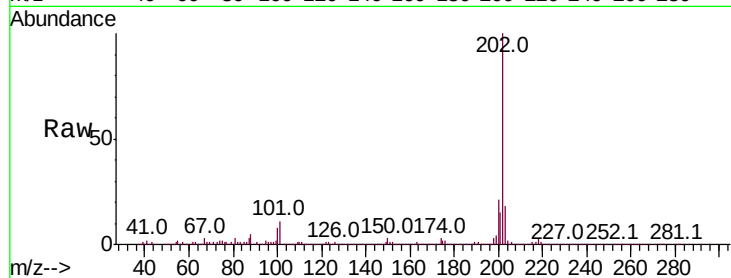
ClientSampleId :

JC-03-042919-E

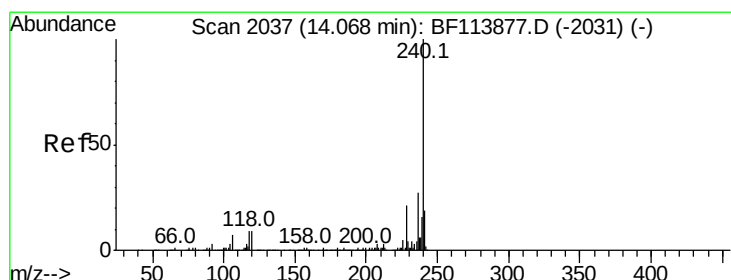
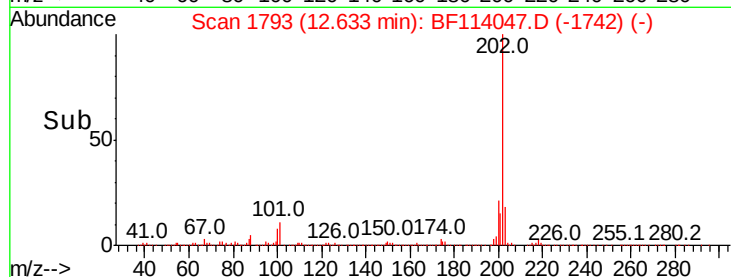
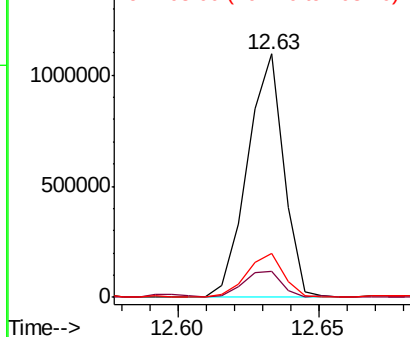
Tot Ion:	202	Resp:	977223
Ion Ratio	Lower	Upper	
202	100		
101	10.9	0.0	32.9
203	18.2	0.0	38.2

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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

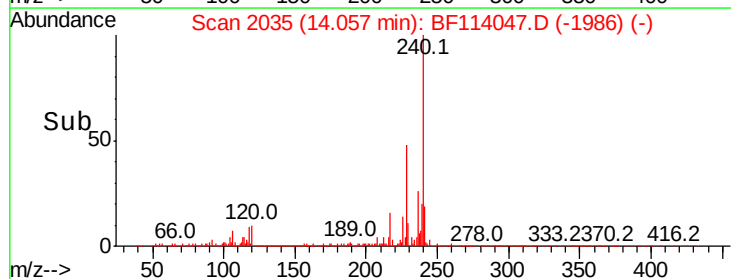
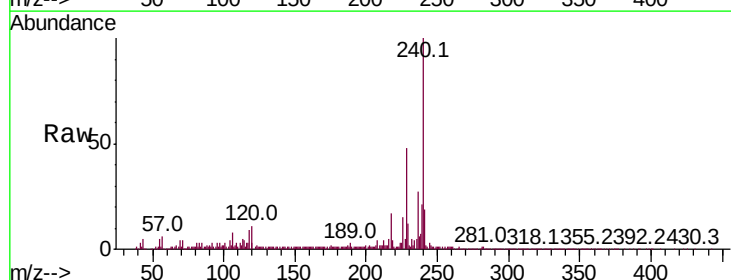
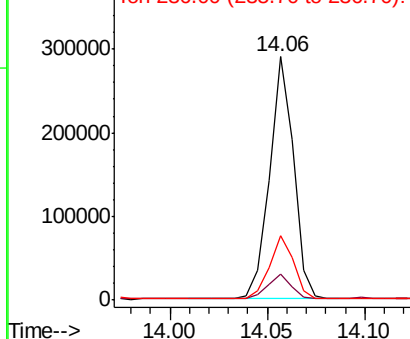
Delta R.T. -0.01 min

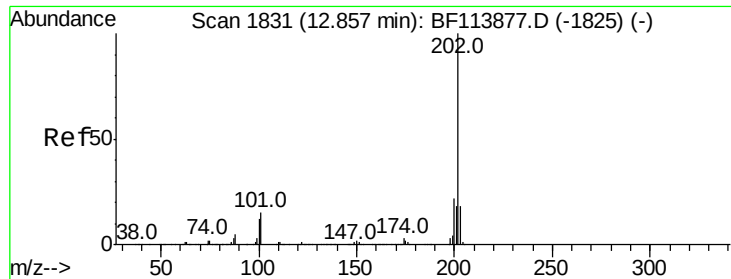
Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Tgt Ion:	240	Resp:	247830
Ion Ratio	Lower	Upper	
240	100		
120	10.6	9.3	13.9
236	26.6	21.2	31.8

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





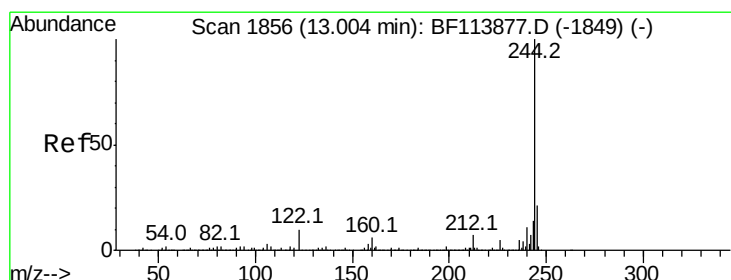
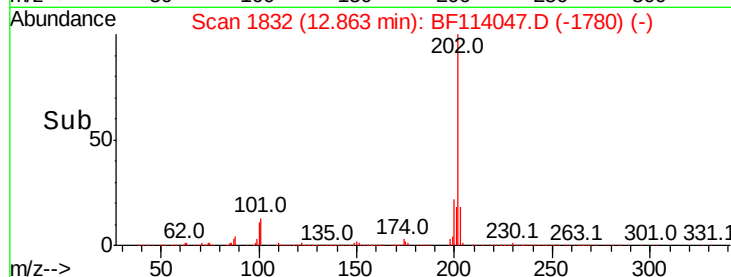
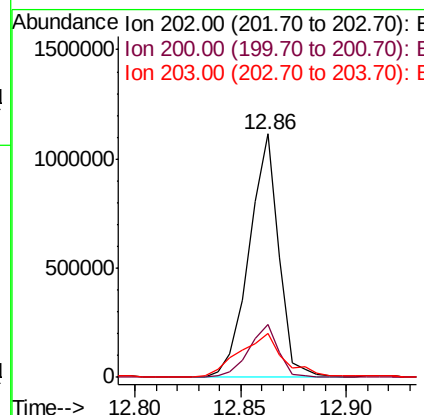
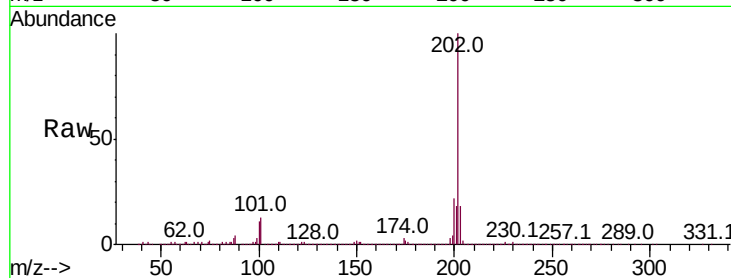
#78
Pvrene
Concen: 62.463 ng
RT: 12.86 min Scan# 1832
Delta R.T. 0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.7	26.5
203	18.2	15.0	22.6

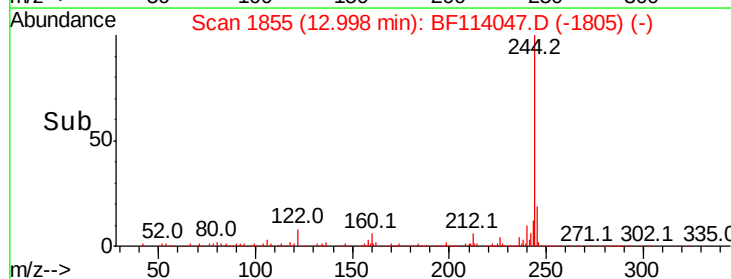
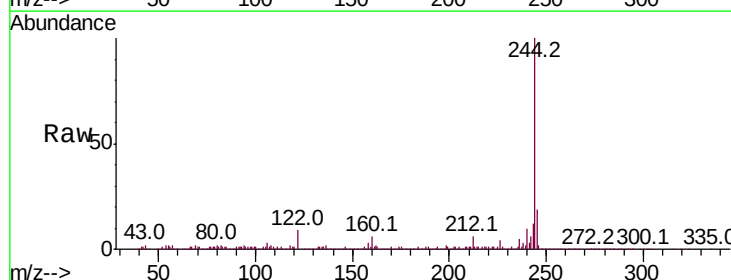
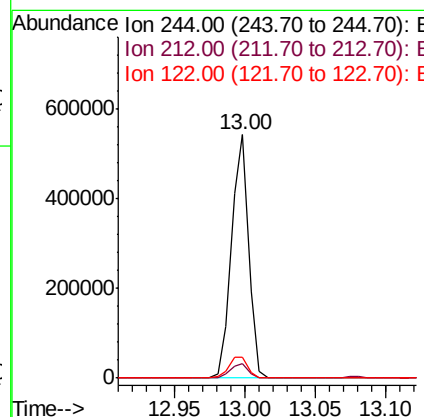
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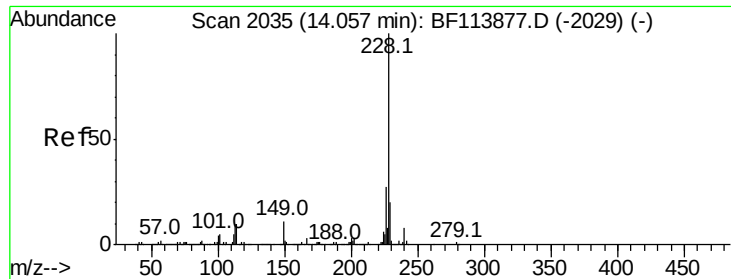
Sohil
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#79
Terphenyl-d14
Concen: 37.996 ng
RT: 13.00 min Scan# 1855
Delta R.T. -0.01 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.4	8.2
122	8.6	7.6	11.4





#81

Benzo(a)anthracene

Concen: 33.698 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Instrument :

BNA_F

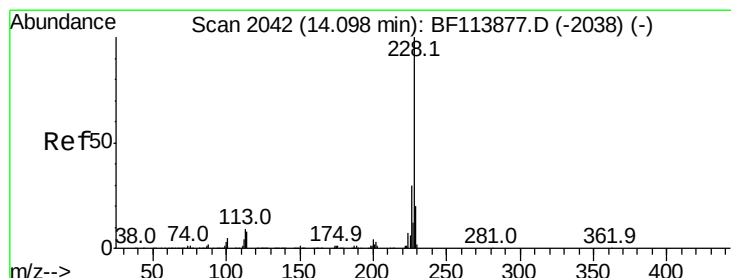
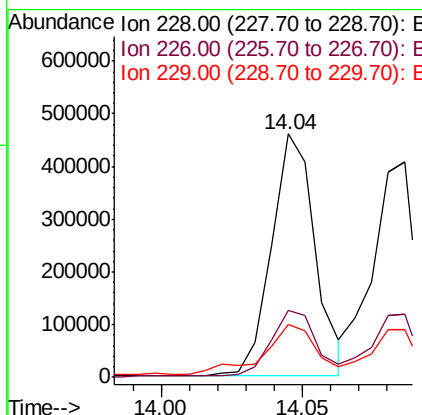
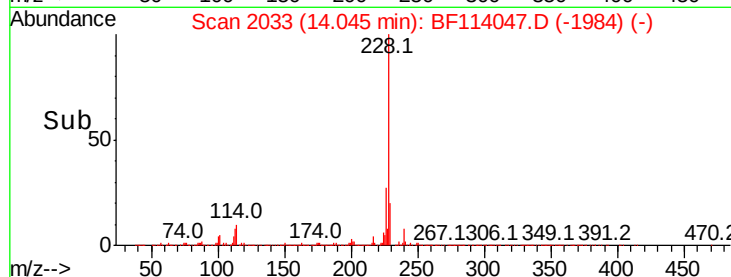
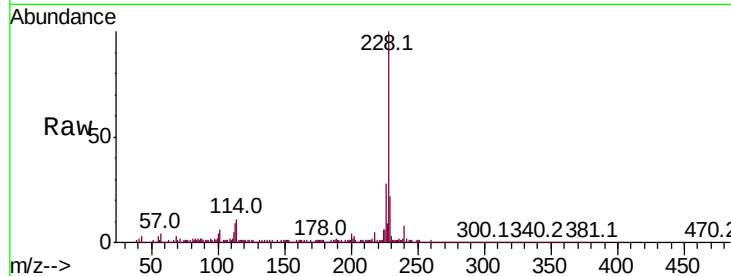
ClientSampleId :

JC-03-042919-E

Tot Ion:	228	Resp:	492047
Ion Ratio	Lower	Upper	
228	100		
226	27.5	22.2	33.2
229	21.5	16.0	24.0

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#83

Chrysene

Concen: 30.012 ng

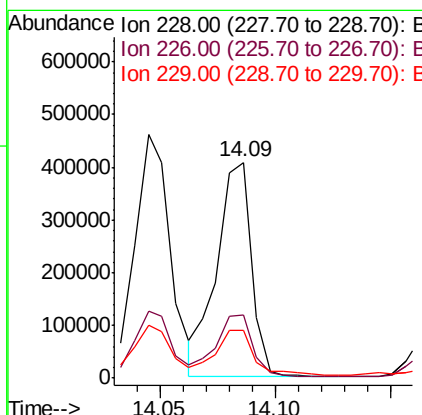
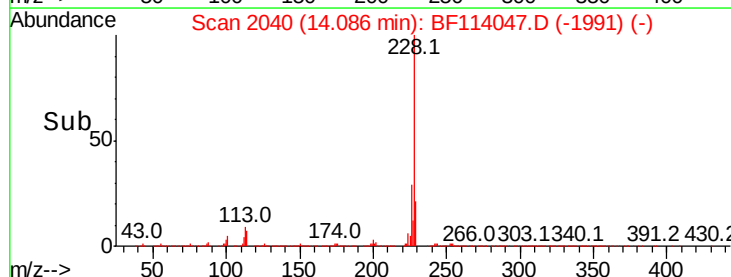
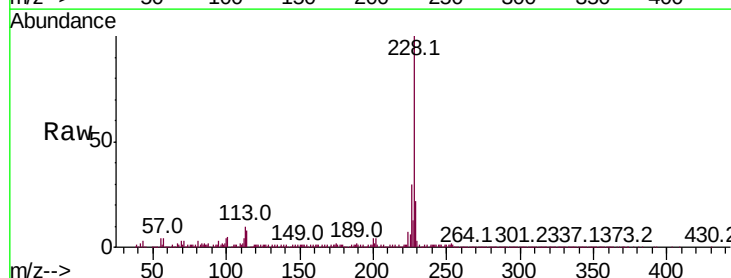
RT: 14.09 min Scan# 2040

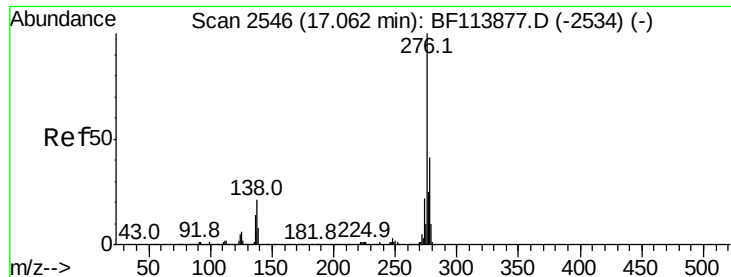
Delta R.T. -0.01 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Tgt Ion:	228	Resp:	426794
Ion Ratio	Lower	Upper	
228	100		
226	29.5	25.2	37.8
229	22.0	16.7	25.1





#86

Indeno(1,2,3-cd)pyrene

Concen: 8.439 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.02 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Instrument :

BNA_F

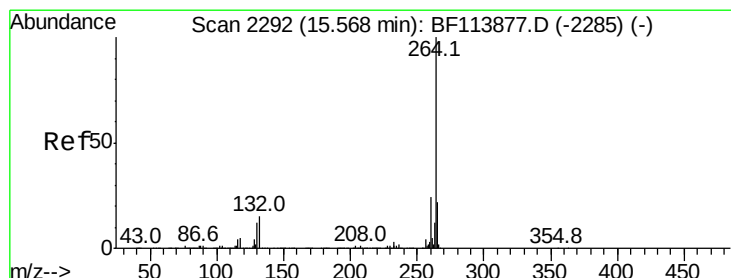
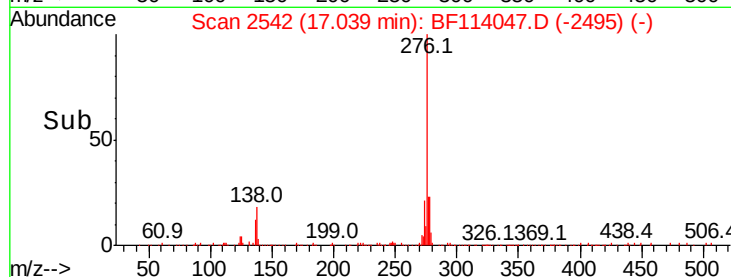
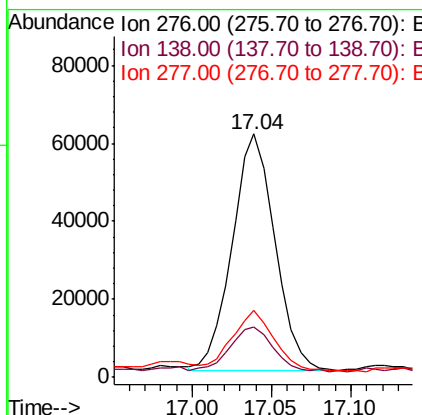
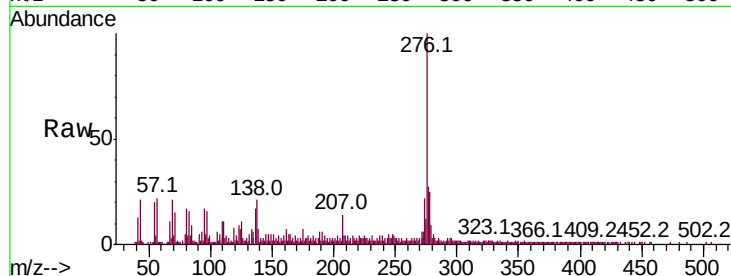
ClientSampleId :

JC-03-042919-E

Tot Ion:	276	Resp:	113671
Ion Ratio	Lower	Upper	
276	100		
138	20.0	19.6	29.4
277	24.8	20.2	30.4

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#87

Perylene-d12

Concen: 20.000 ng

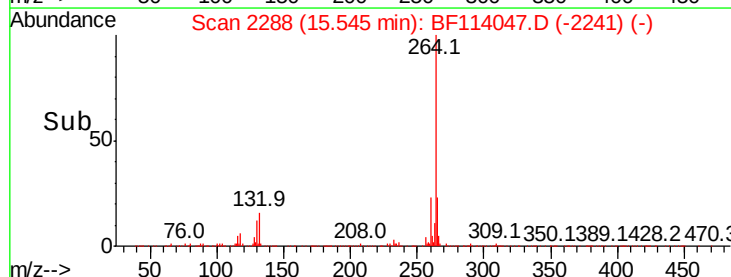
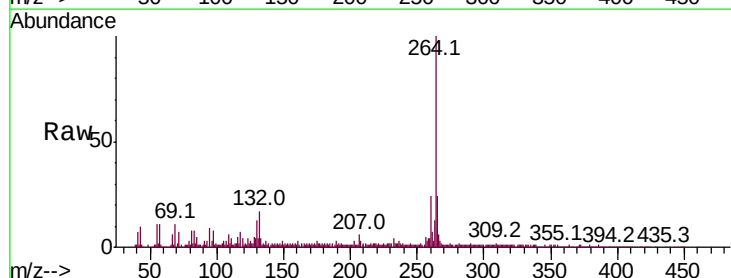
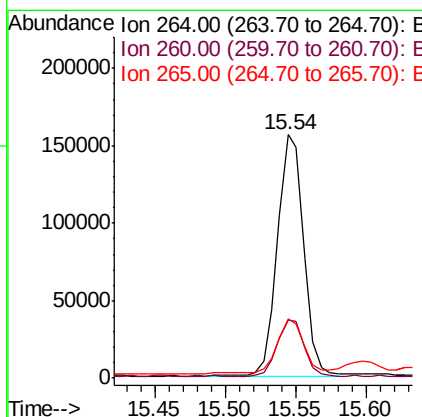
RT: 15.54 min Scan# 2288

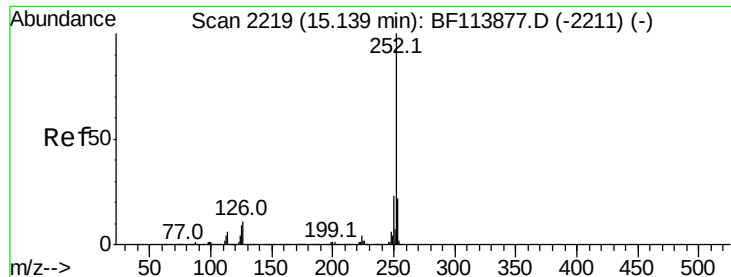
Delta R.T. -0.02 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Tgt Ion:	264	Resp:	200825
Ion Ratio	Lower	Upper	
264	100		
260	24.0	18.9	28.3
265	24.2	17.3	25.9





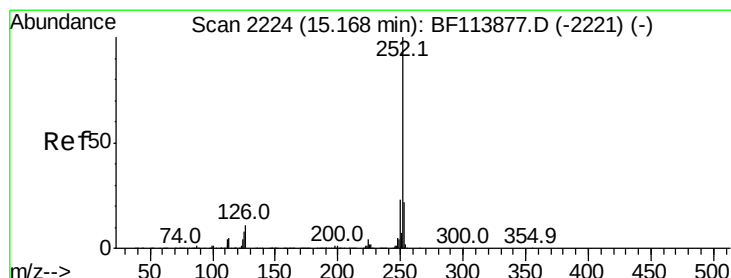
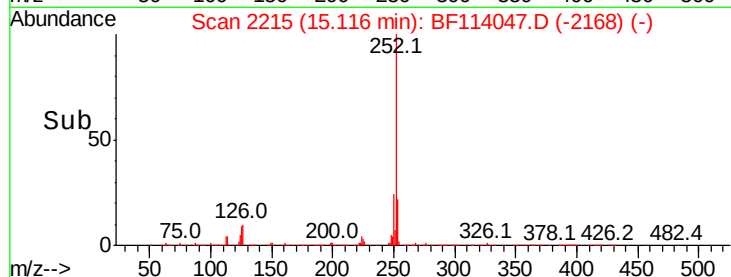
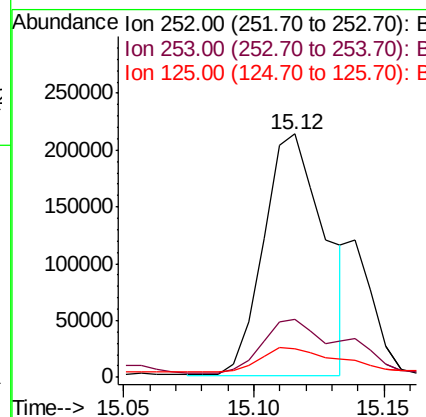
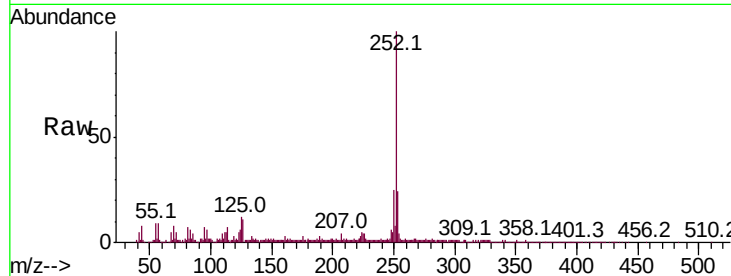
#88
Benzo(b)fluoranthene
Concen: 27.505 ng m
RT: 15.12 min Scan# 2215
Delta R.T. -0.02 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Instrument :
BNA_F
ClientSampleId :
JC-03-042919-E

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.6
125	11.7	7.0	10.6

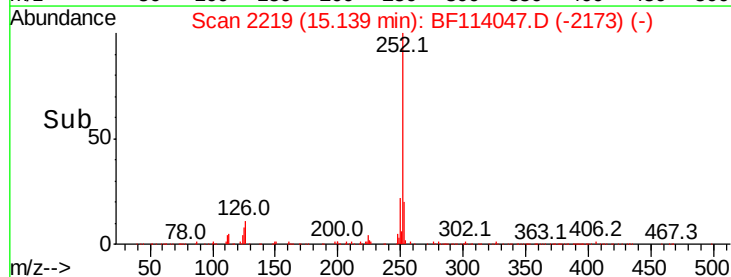
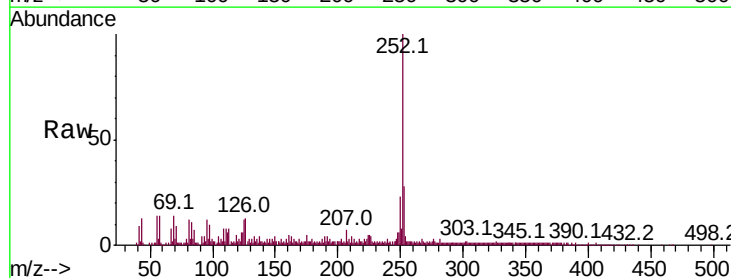
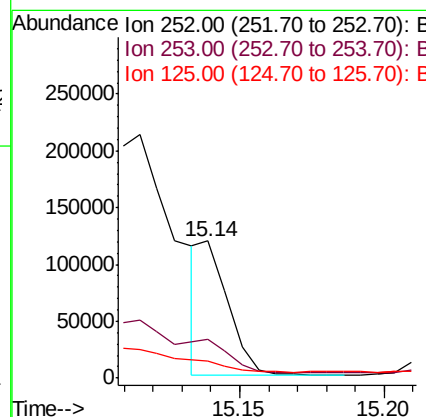
Manual Integrations
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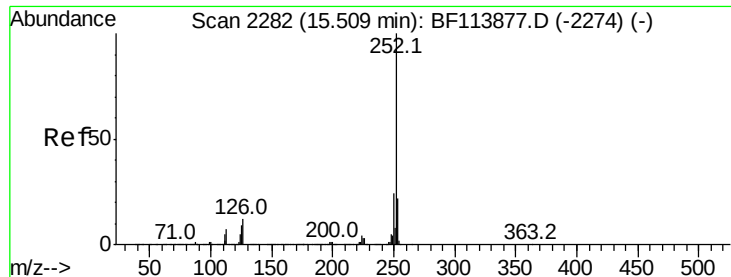
Sohil
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#89
Benzo(k)fluoranthene
Concen: 7.369 ng m
RT: 15.14 min Scan# 2219
Delta R.T. -0.03 min
Lab File: BF114047.D
Acq: 30 Apr 2019 17:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.5	18.2	27.2
125	12.3	7.4	11.2





#90

Benzo(a)pyrene

Concen: 22.926 ng

RT: 15.49 min Scan# 2278

Delta R.T. -0.02 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Instrument :

BNA_F

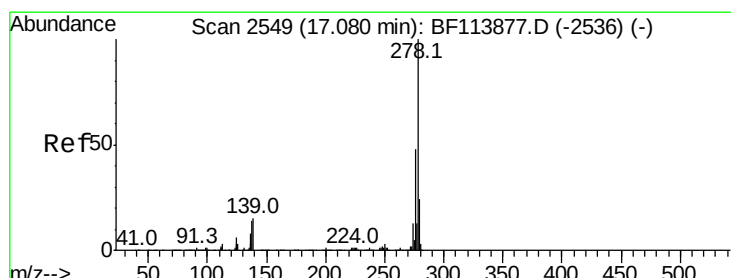
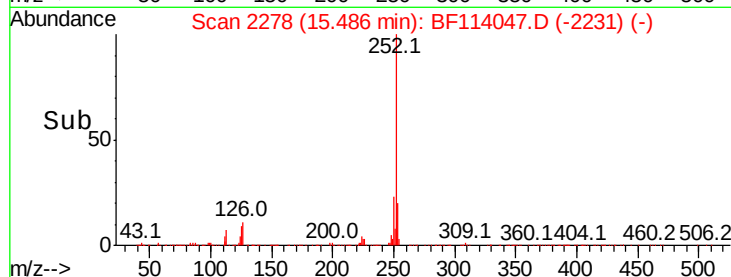
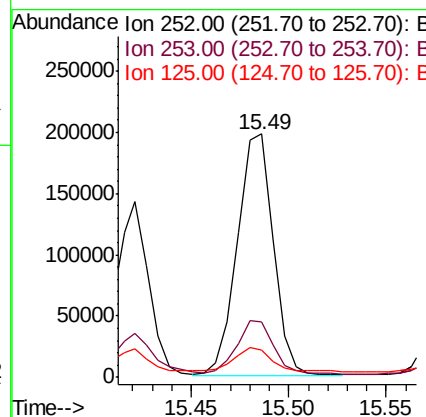
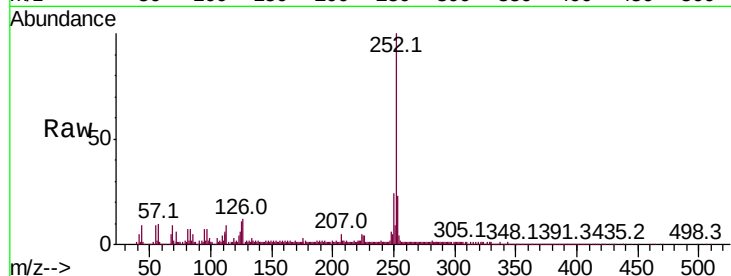
ClientSampleId :

JC-03-042919-E

Tot Ion:	252	Resp:	251960
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.5	26.3
125	11.2	8.5	12.7

Manual Integrations
APPROVED

Sohil
5/1/2019 11:58:55 AM



#91

Dibenzo(a,h)anthracene

Concen: 3.373 ng

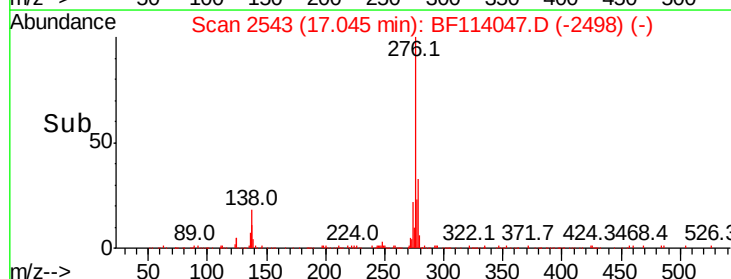
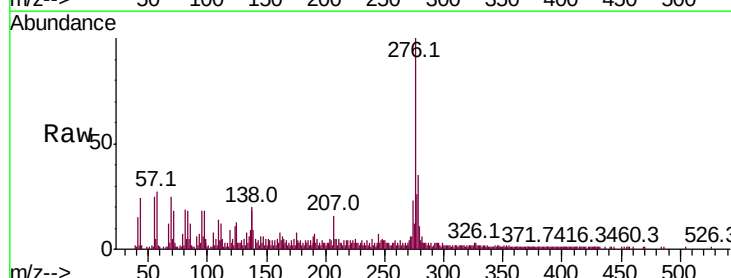
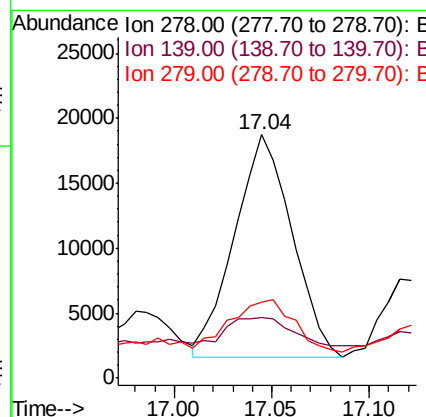
RT: 17.04 min Scan# 2543

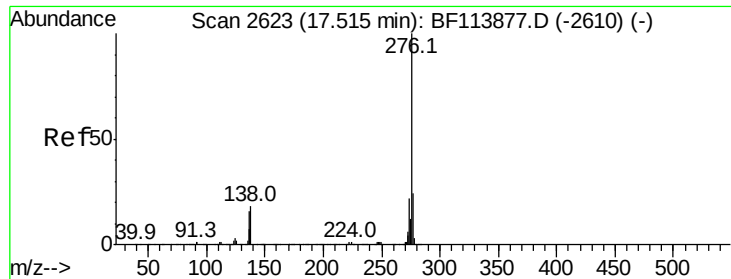
Delta R.T. -0.04 min

Lab File: BF114047.D

Acq: 30 Apr 2019 17:30

Tgt Ion:	278	Resp:	34794
Ion Ratio	Lower	Upper	
278	100		
139	24.8	11.6	17.4#
279	31.3	19.0	28.6#





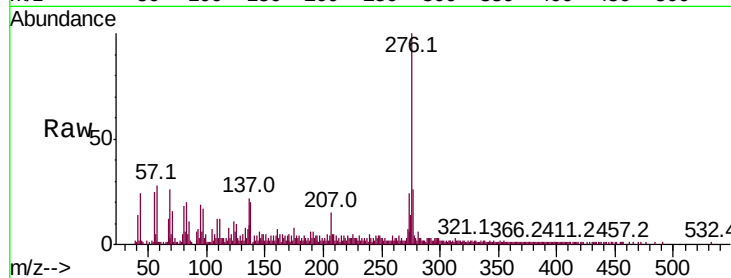
#92
 Benzo(a,h,i)perylene
 Concen: 11.215 ng
 RT: 17.49 min Scan# 2619
 Delta R.T. -0.02 min
 Lab File: BF114047.D
 Acq: 30 Apr 2019 17:30

Instrument :
 BNA_F
 ClientSampleId :
 JC-03-042919-E

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.1	19.0	28.4
138	19.9	16.6	25.0

Manual Integrations
 APPROVED

Sohil
 5/1/2019 11:58:55 AM



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

