

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021220\
 Data File : BF118912.D
 Acq On : 12 Feb 2020 12:27
 Operator : CG/JU
 Sample : L1482-02DL 25X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP7-EP2-2DL

Manual Integrations
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Quant Time: Feb 13 00:26:44 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	265961	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	687471	20.00	ng	-0.02
39) Acenaphthene-d10	9.84	164	336741	20.00	ng	-0.02
64) Phenanthrene-d10	11.33	188	529688	20.00	ng	-0.01
76) Chrysene-d12	13.96	240	406889	20.00	ng	-0.02
87) Perylene-d12	15.42	264	510399	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	55472	3.95	ng	0.00
7) Phenol-d6	6.44	99	73797	4.23	ng	-0.01
23) Nitrobenzene-d5	7.36	82	44911	3.89	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	12438	3.09	ng	-0.02
45) 2-Fluorobiphenyl	9.16	172	70347	3.73	ng	-0.02
79) Terphenyl-d14	12.90	244	64965	3.28	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.11	128	2496820	79.410	ng	99
37) 2-Methylnaphthalene	8.80	142	789289	36.195	ng	98
38) 1-Methylnaphthalene	8.90	142	580380	28.292	ng	100
46) 1,1'-Biphenyl	9.26	154	148743	6.385	ng	96
49) Acenaphthylene	9.70	152	303653	10.860	ng	97
52) Acenaphthene	9.87	154	64054	3.477	ng	95
55) Dibenzofuran	10.05	168	167815	6.302	ng	# 93
58) Fluorene	10.39	166	392789	19.608	ng	100
71) Phenanthrene	11.35	178	1659448	63.674	ng	98
72) Anthracene	11.40	178	359470	13.865	ng	96
73) Carbazole	11.55	167	61632	2.709	ng	98
75) Fluoranthene	12.54	202	870925	30.608	ng	99
78) Pvrene	12.77	202	1073183	38.447	ng	98
81) Benzo(a)anthracene	13.95	228	471593	19.477	ng	93
83) Chrysene	13.99	228	443944	18.269	ng	97
86) Indeno(1,2,3-cd)pyrene	16.85	276	269698	11.046	ng	97
88) Benzo(b)fluoranthene	15.00	252	466684m	14.735	ng	
89) Benzo(k)fluoranthene	15.02	252	167675m	6.080	ng	
90) Benzo(a)pvrene	15.35	252	484848	17.888	ng	99
91) Dibenzo(a,h)anthracene	16.85	278	88098m	3.661	ng	
92) Benzo(g,h,i)perylene	17.29	276	294637	12.733	ng	99

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

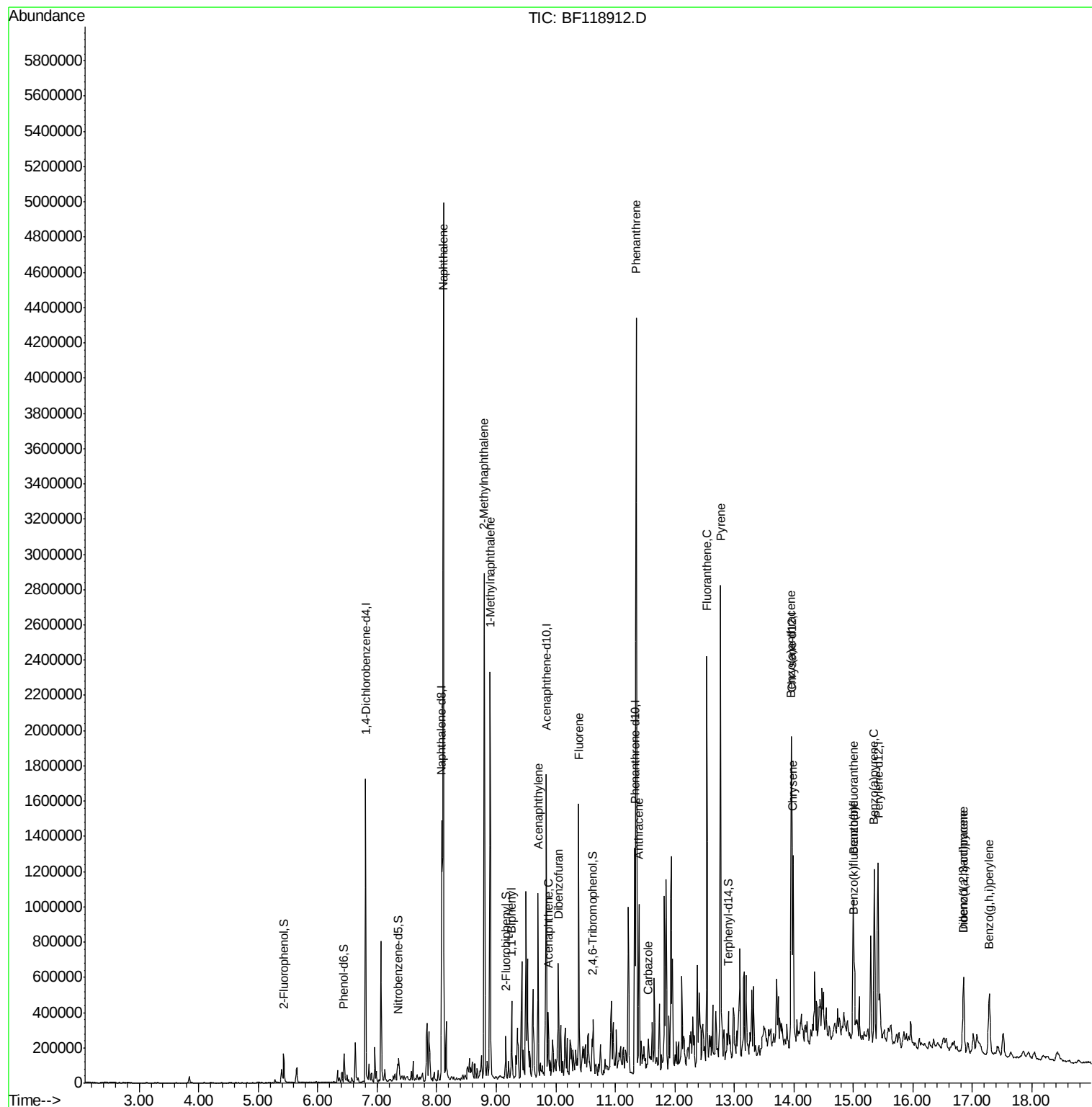
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021220\
Data File : BF118912.D
Acq On : 12 Feb 2020 12:27
Operator : CG/JU
Sample : L1482-02DL 25X
Misc :
ALS Vial : 5 Sample Multiplier: 1

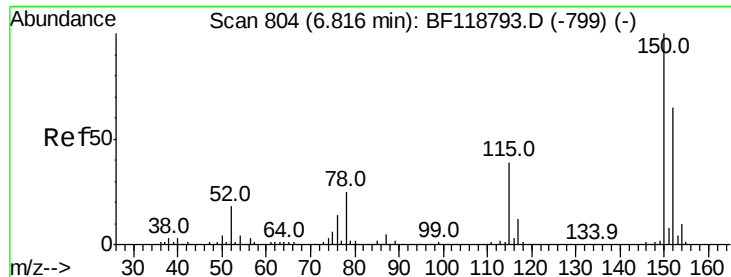
Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

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Quant Time: Feb 13 00:26:44 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 03 16:26:03 2020
Response via : Initial Calibration





#1

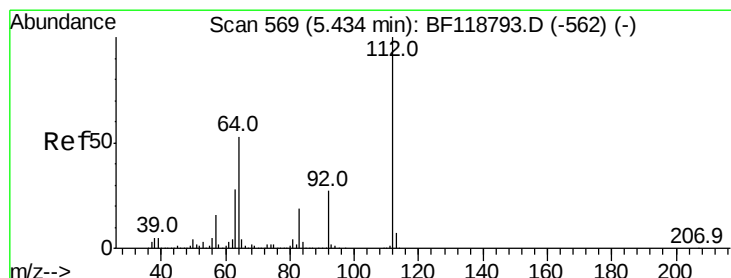
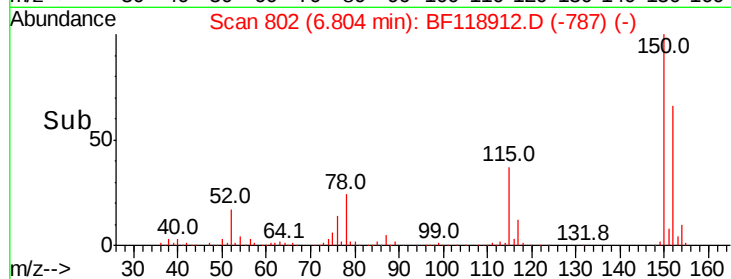
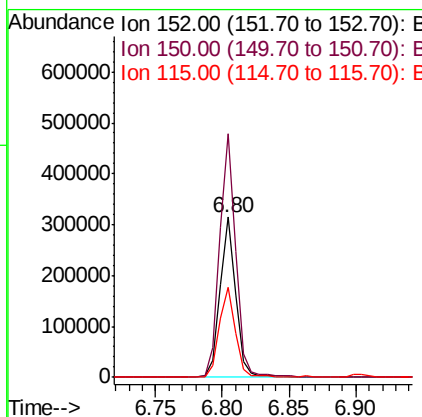
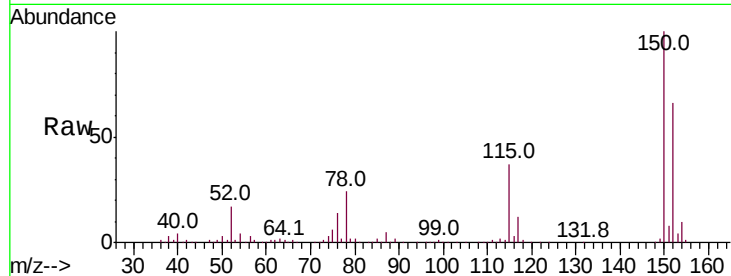
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.1	123.6	185.4
115	56.0	48.2	72.2

Manual Integrations
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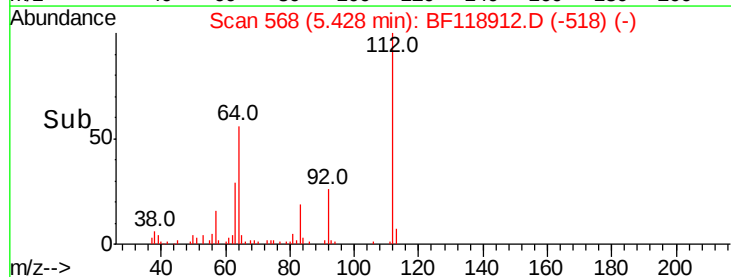
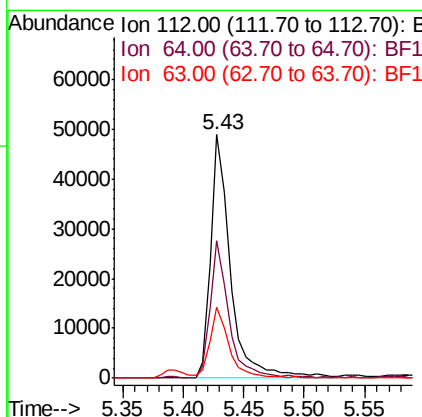
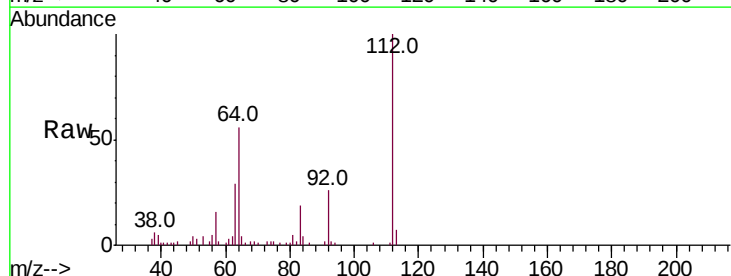
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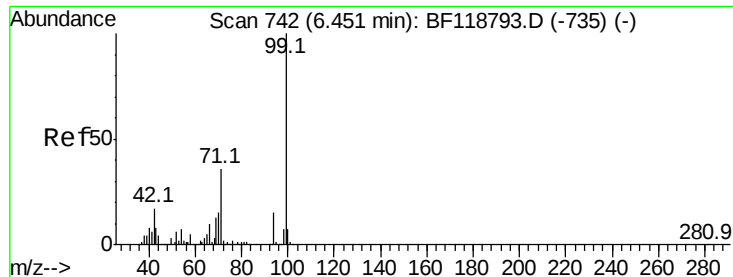


#5

2-Fluorophenol
Concen: 3.948 ng
RT: 5.43 min Scan# 568
Delta R.T. -0.01 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	42.6	63.8
63	29.3	22.2	33.4





#7

Phenol-d6

Concen: 4.231 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Instrument :

BNA_F

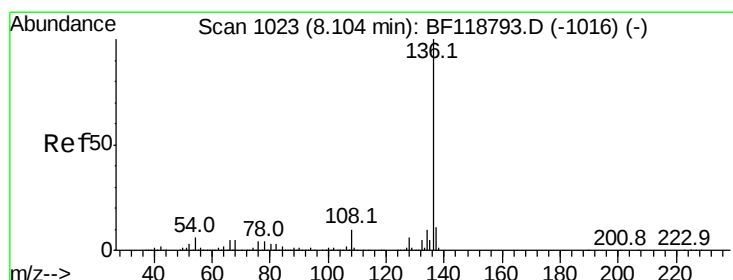
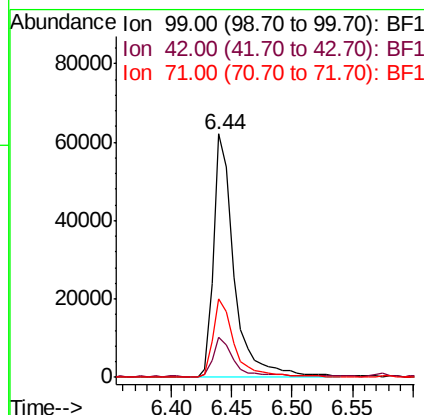
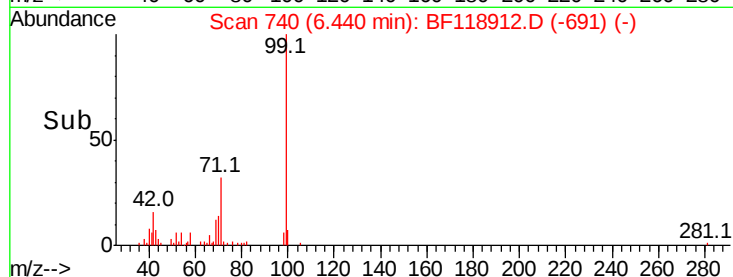
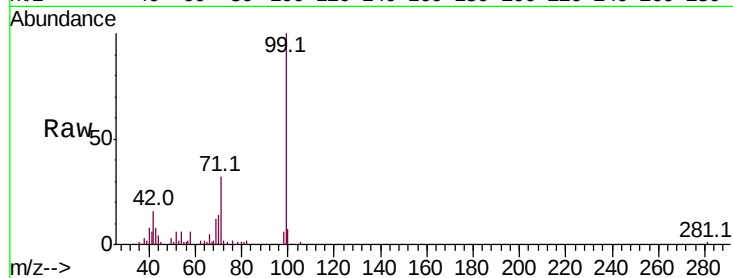
ClientSampleId :

TP7-EP2-2DL

Tot Ion:	99	Resp:	73797
Ion Ratio	Lower	Upper	
99	100		
42	16.4	13.4	20.0
71	32.3	29.0	43.6

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#21

Naphthalene-d8

Concen: 20.000 ng

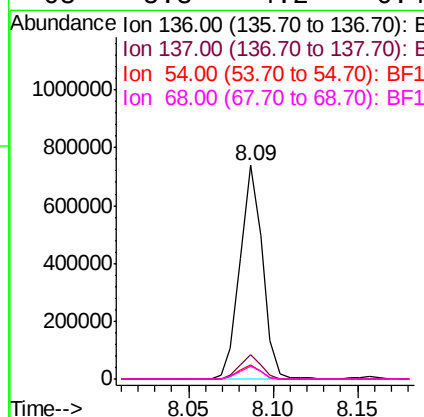
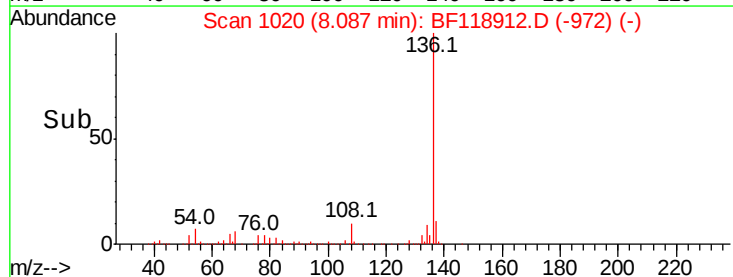
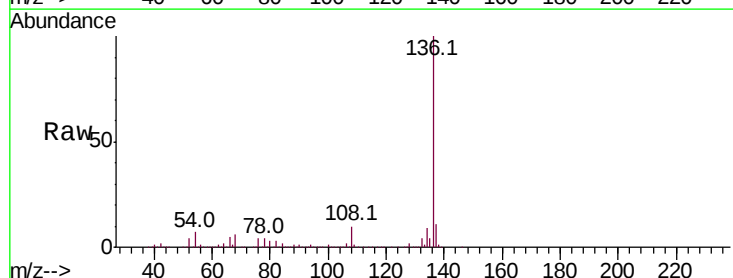
RT: 8.09 min Scan# 1020

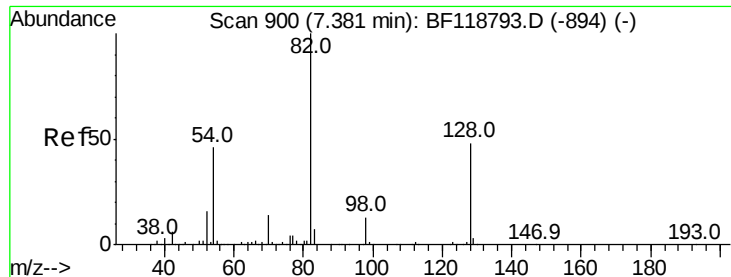
Delta R.T. -0.02 min

Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Tgt Ion:	136	Resp:	687471
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	6.6	5.0	7.6
68	5.8	4.2	6.4





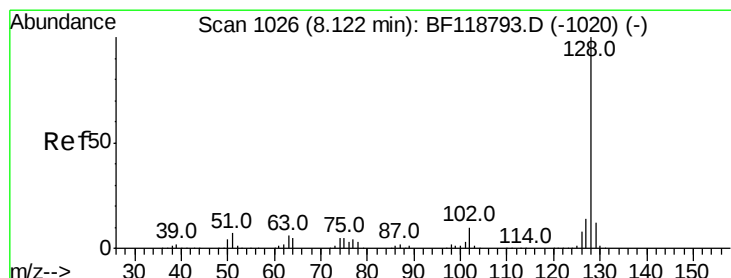
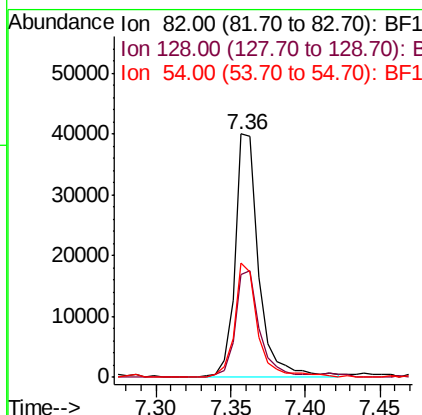
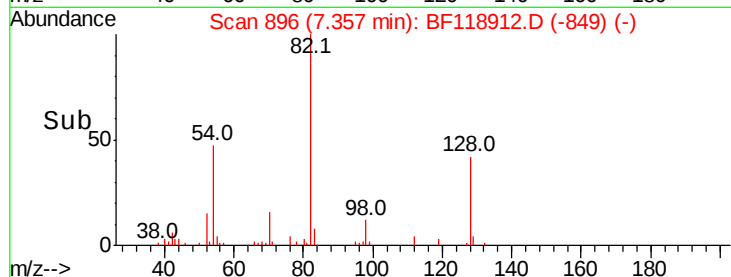
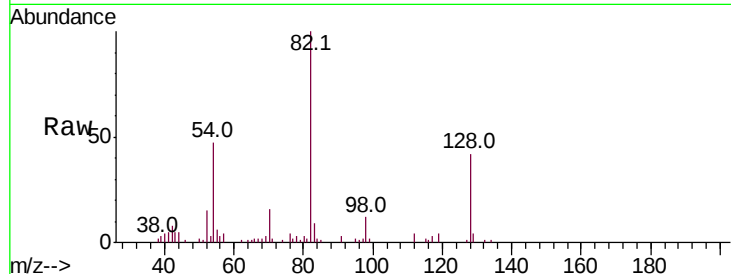
#23
Nitrobenzene-d5
Concen: 3.894 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.2	38.5	57.7
54	47.0	36.7	55.1

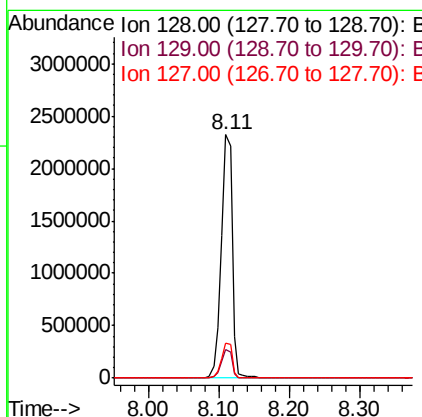
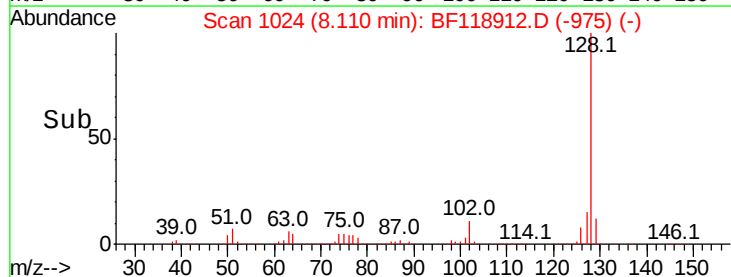
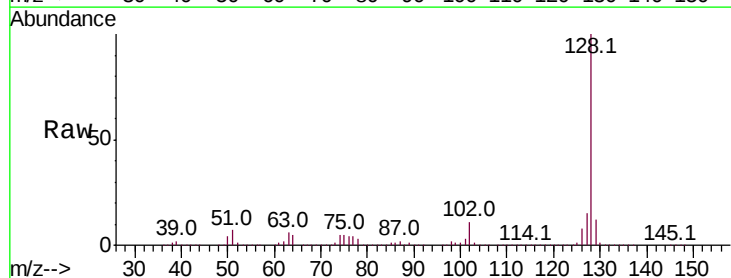
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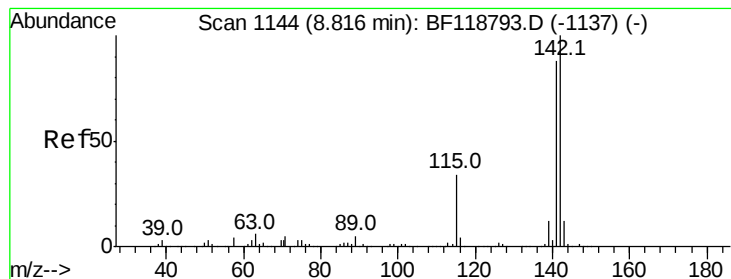
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#31
Naphthalene
Concen: 79.410 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.4	14.2
127	14.6	11.3	16.9





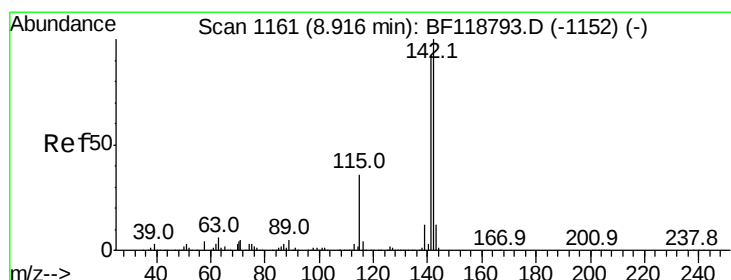
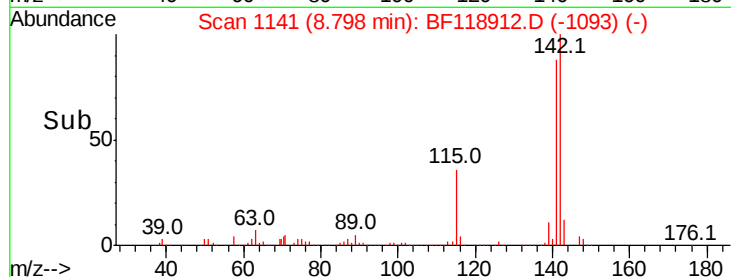
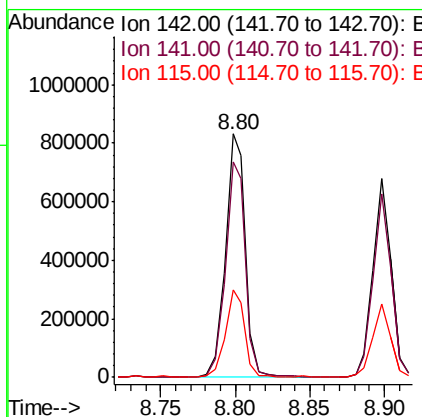
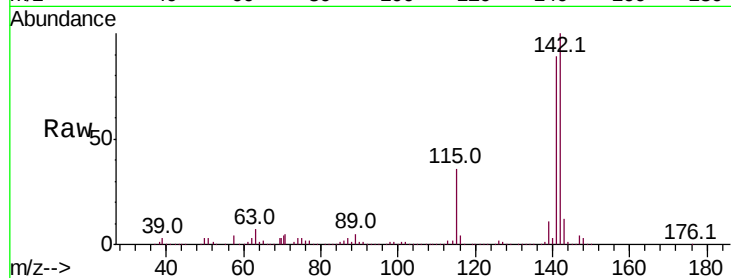
#37
2-Methylnaphthalene
Concen: 36.195 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampled :
TP7-EP2-2DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	789289		
141	88.6		70.1	105.1
115	36.1		27.3	40.9

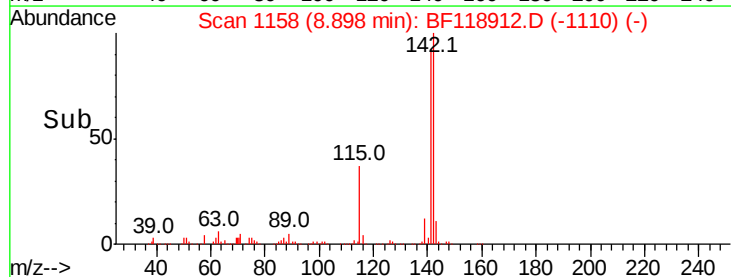
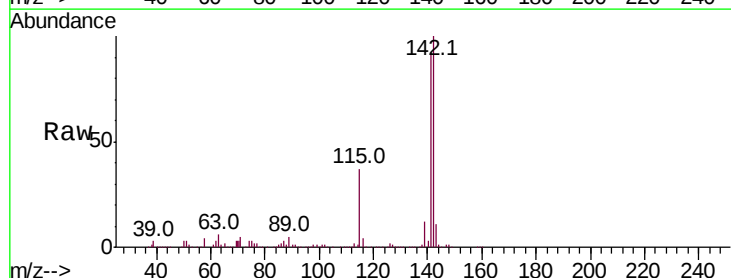
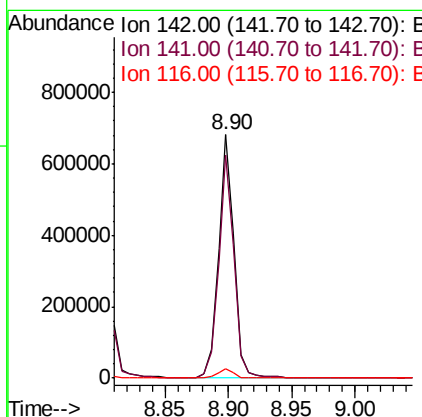
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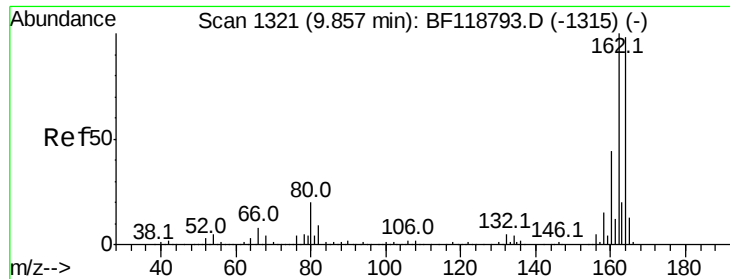
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#38
1-Methylnaphthalene
Concen: 28.292 ng
RT: 8.90 min Scan# 1158
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	580380		
141	91.7		73.8	110.6
116	3.7		3.0	4.4





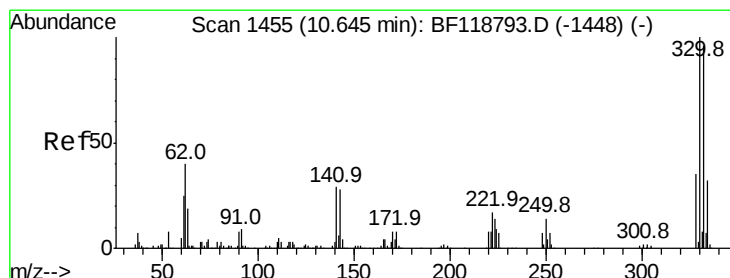
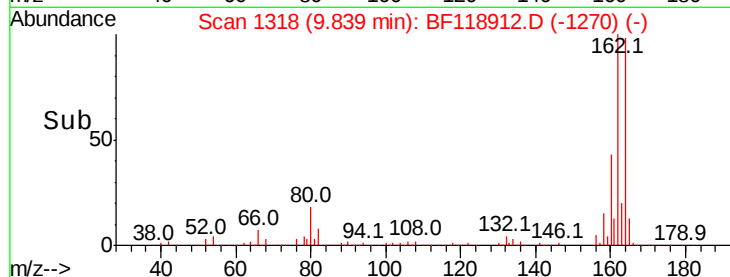
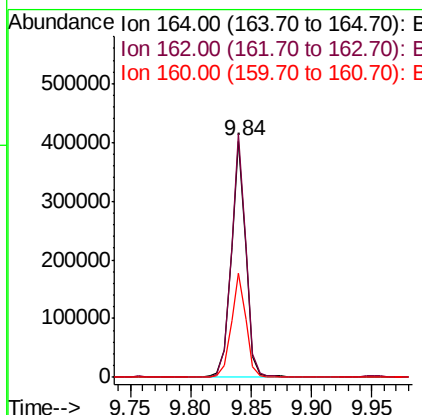
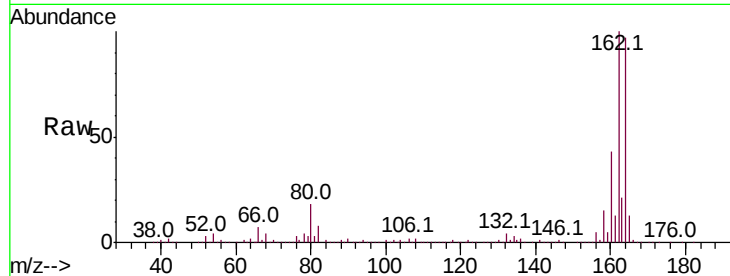
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.4	122.2
160	43.9	35.6	53.4

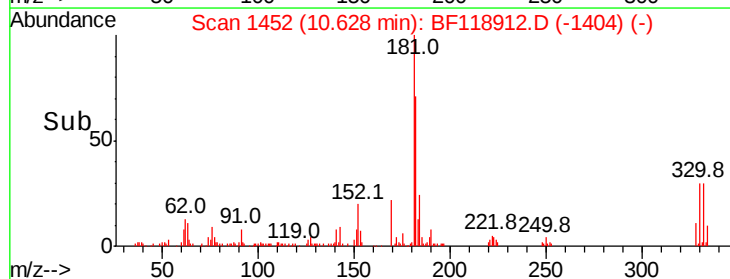
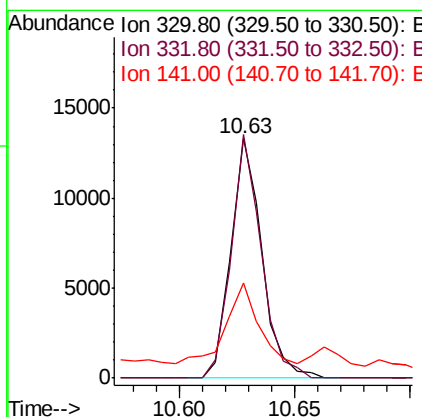
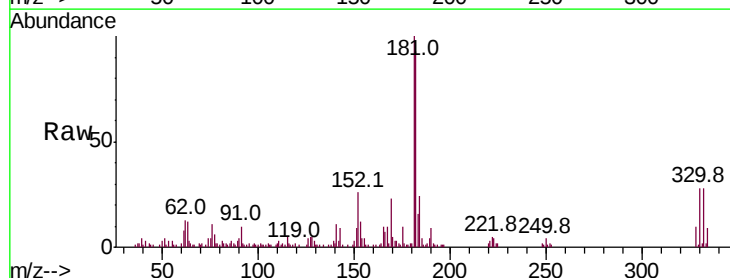
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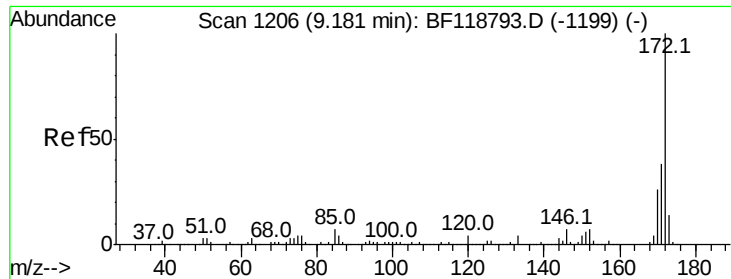
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#42
2,4,6-Tribromophenol
Concen: 3.087 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.3	115.9
141	34.6	22.4	33.6





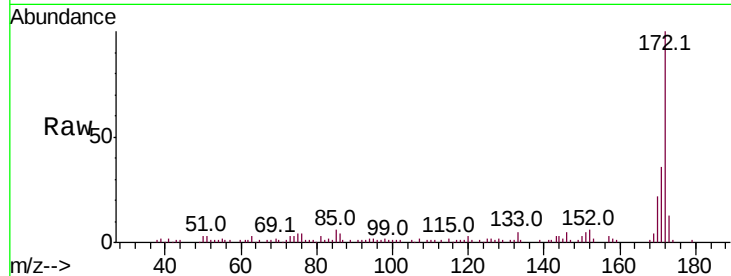
#45
2-Fluorobiphenyl
Concen: 3.735 ng
RT: 9.16 min Scan# 1202
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampled :
TP7-EP2-2DL

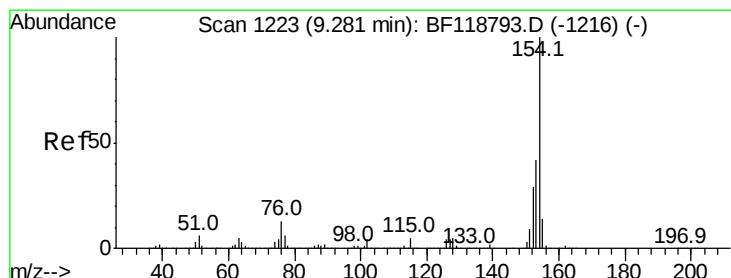
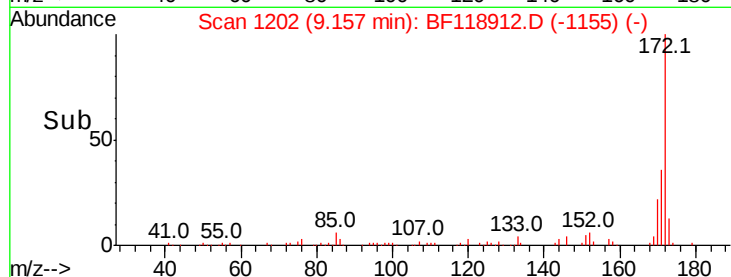
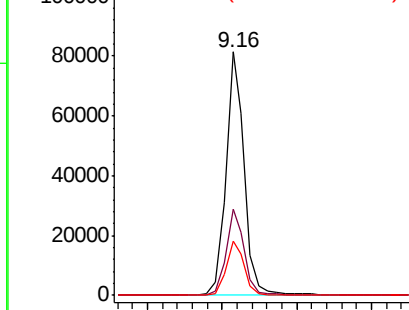
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	30.8	46.2
170	22.1	20.5	30.7

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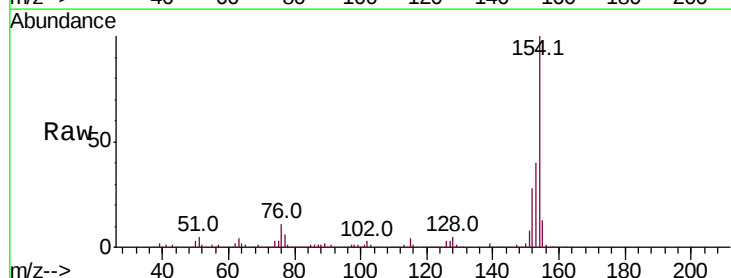


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

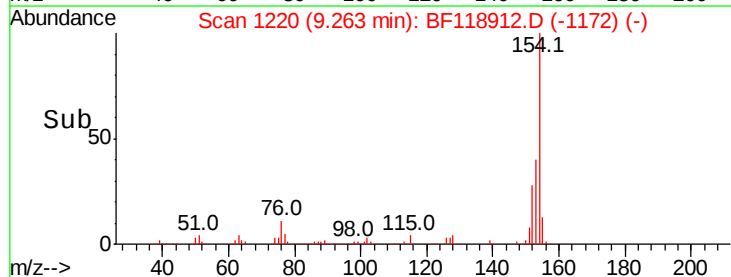
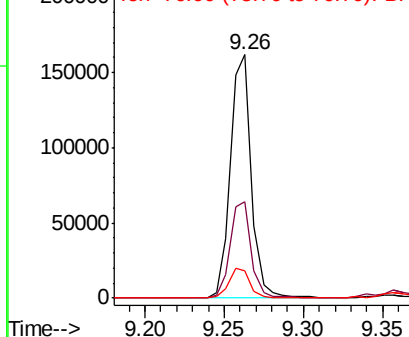


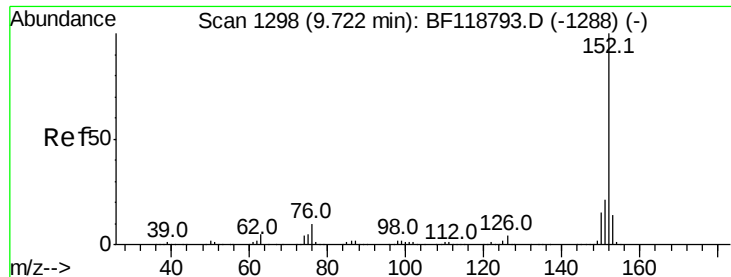
#46
1,1'-Biphenyl
Concen: 6.385 ng
RT: 9.26 min Scan# 1220
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.7	22.4	62.4
76	11.0	0.0	32.7



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





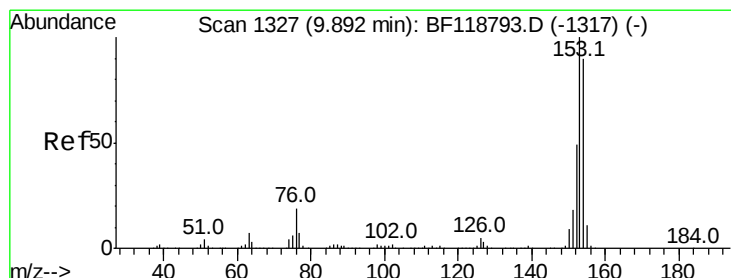
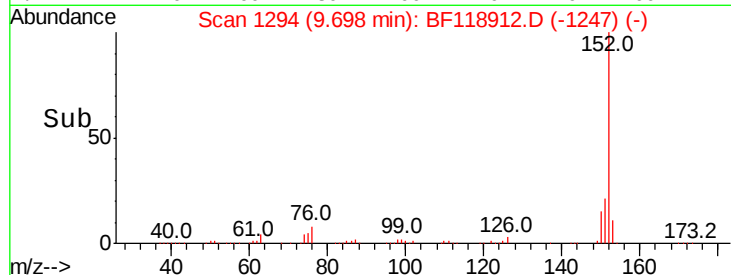
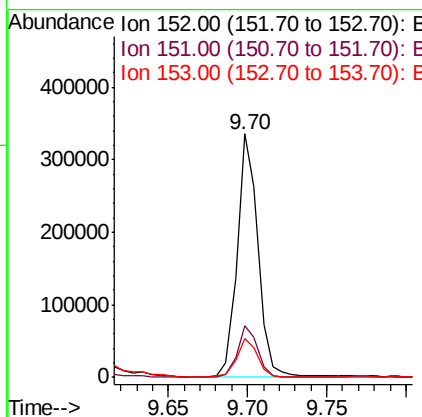
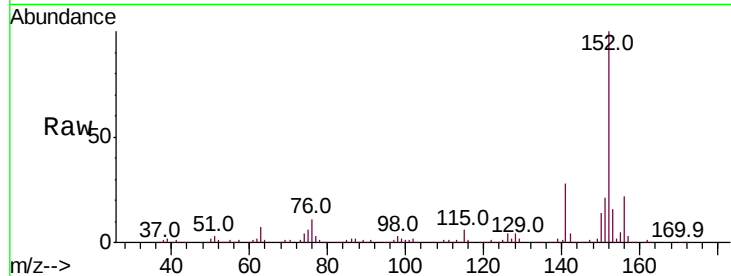
#49
Acenaphthylene
Concen: 10.860 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	303653		
151	21.0		17.1	25.7
153	16.1		11.0	16.4

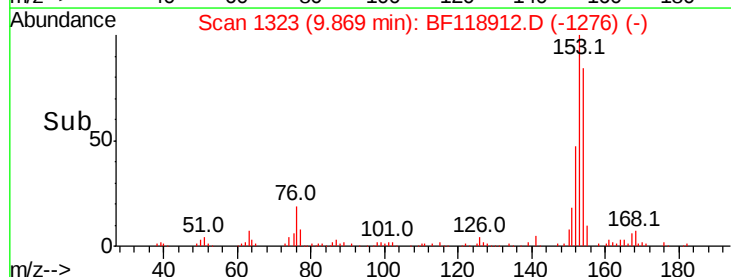
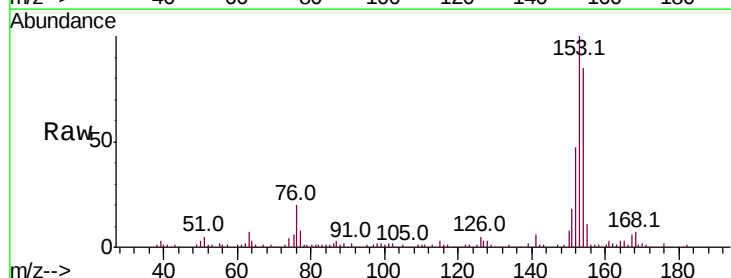
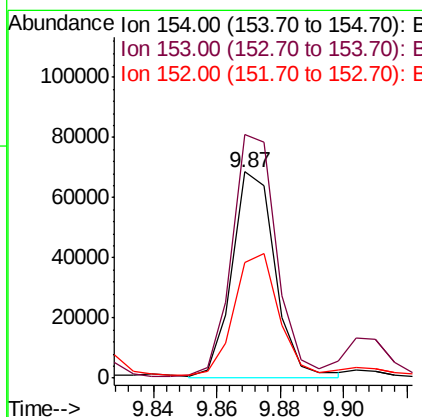
Manual Integrations
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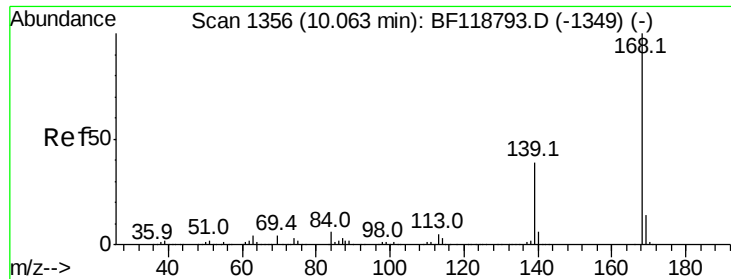
mohammad
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#52
Acenaphthene
Concen: 3.477 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	64054		
153	118.2		89.4	134.0
152	55.9		43.6	65.4





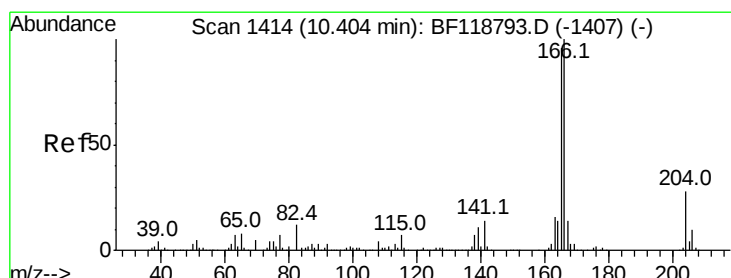
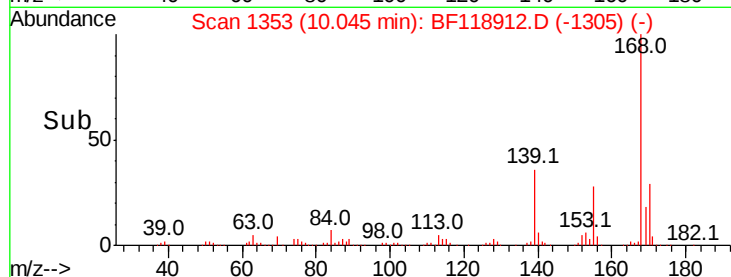
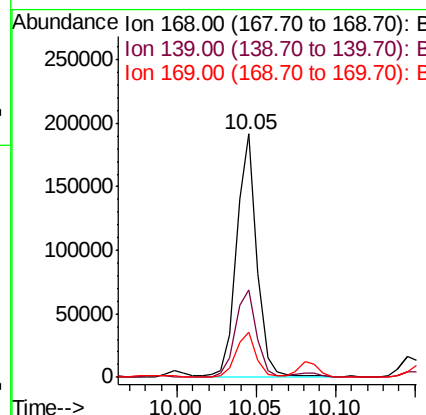
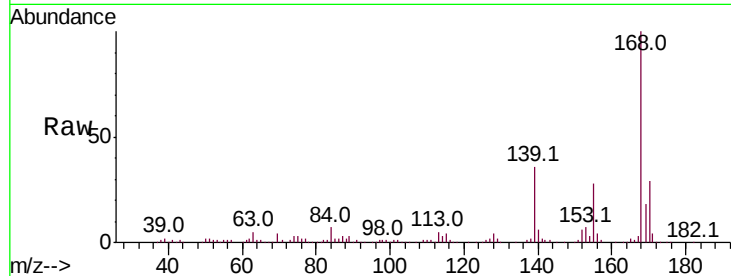
#55
Dibenzenofuran
Concen: 6.302 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.0	31.6	47.4
169	18.4	11.4	17.2

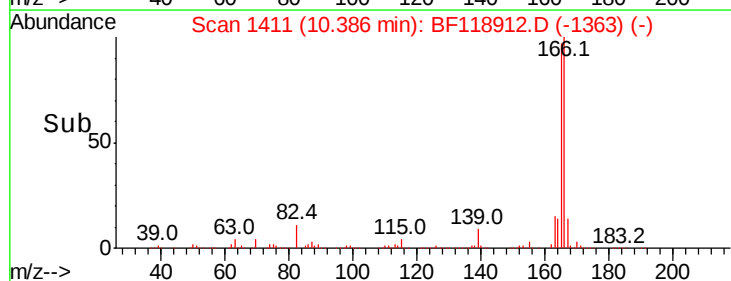
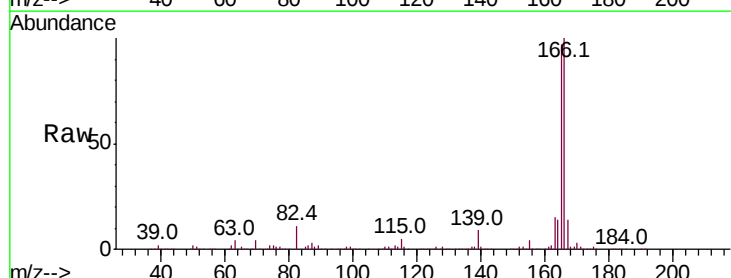
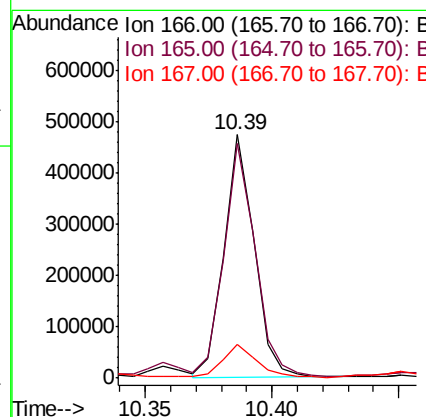
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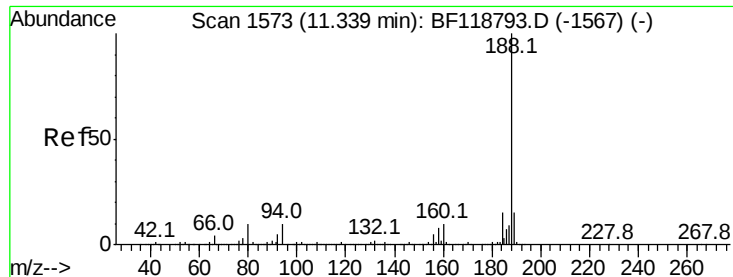
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#58
Fluorene
Concen: 19.608 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.6	77.0	115.6
167	13.7	11.1	16.7





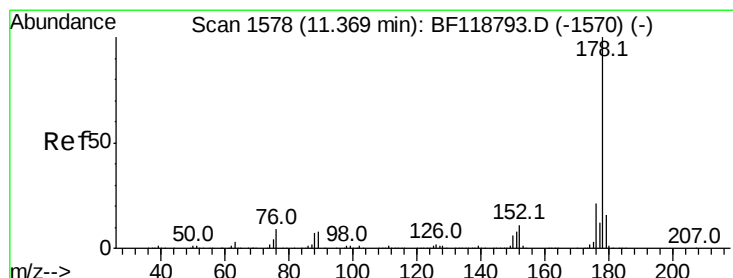
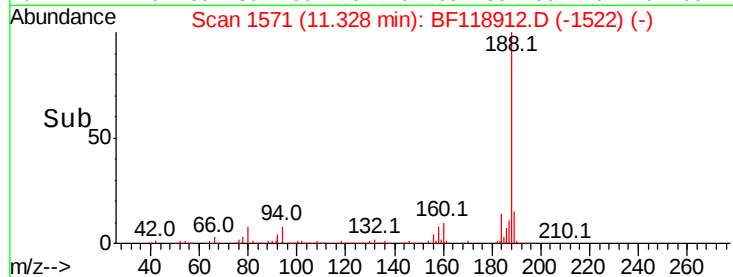
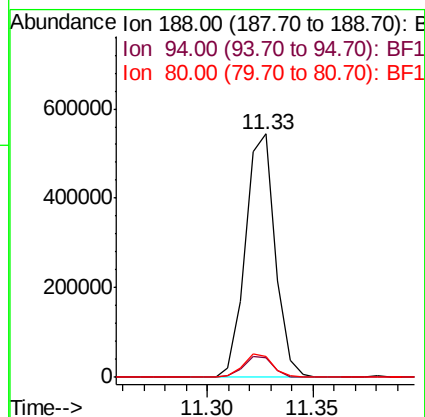
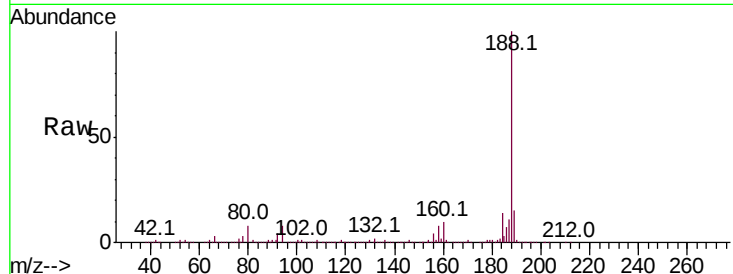
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.8	7.9	11.9#
80	8.4	8.4	12.6

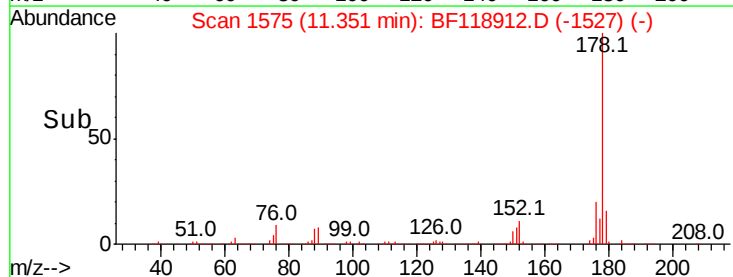
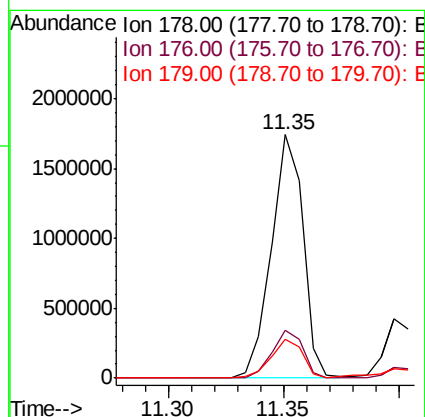
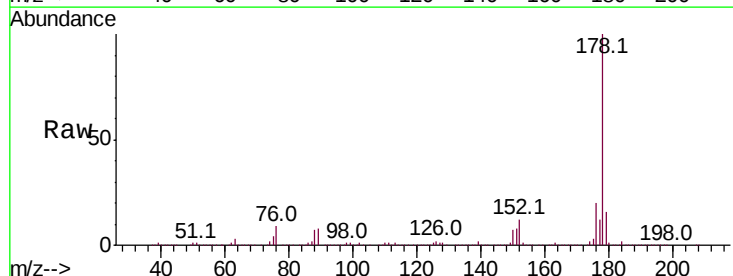
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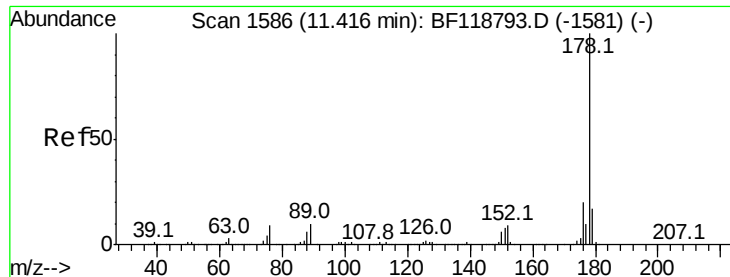
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#71
Phenanthrene
Concen: 63.674 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	16.6	24.8
179	16.1	13.2	19.8





#72

Anthracene

Concen: 13.865 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.02 min

Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Instrument :

BNA_F

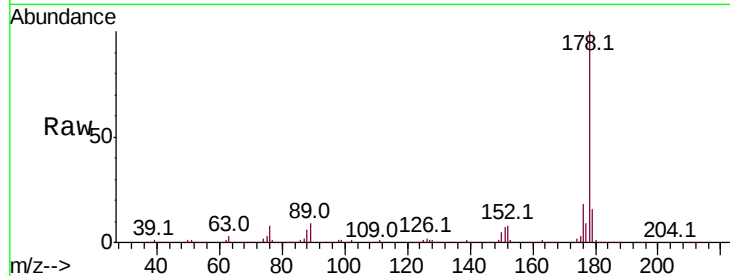
ClientSampleId :

TP7-EP2-2DL

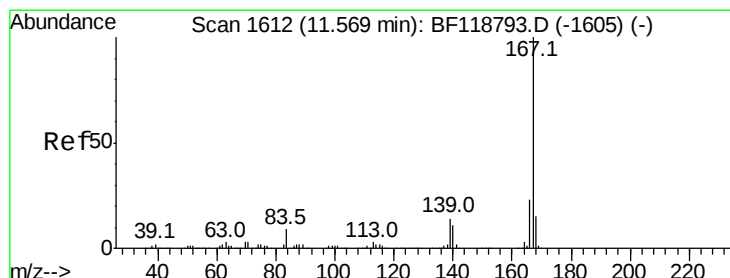
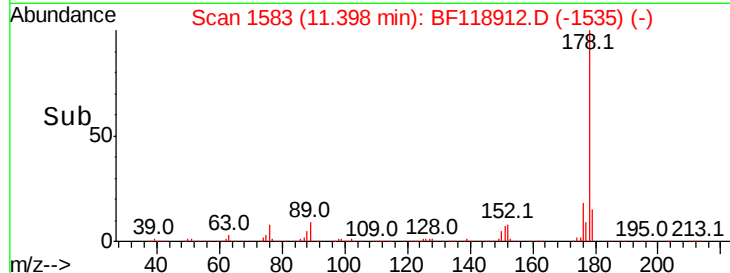
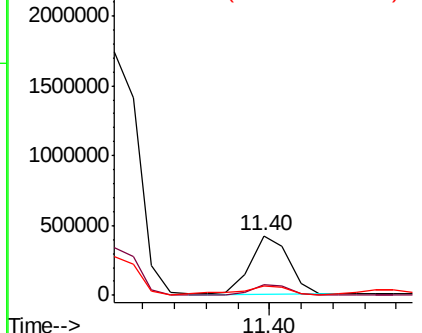
Tot Ion:	178	Resp:	359470
Ion Ratio	Lower	Upper	
178	100		
176	18.1	16.2	24.2
179	15.7	13.4	20.2

Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.709 ng

RT: 11.55 min Scan# 1609

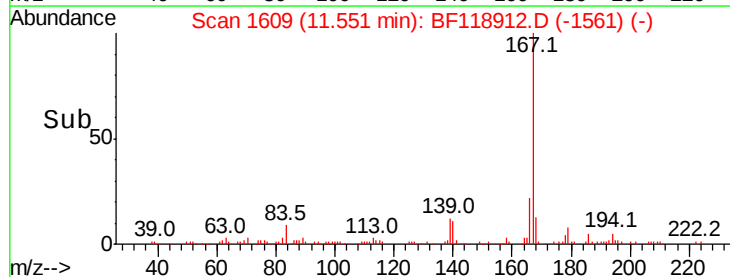
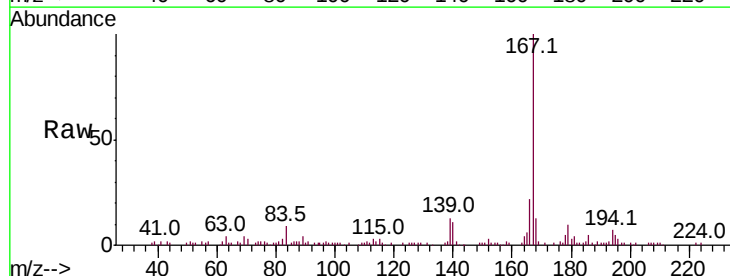
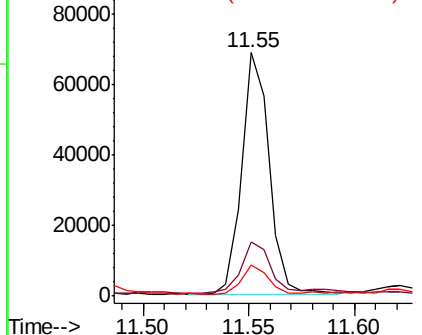
Delta R.T. -0.02 min

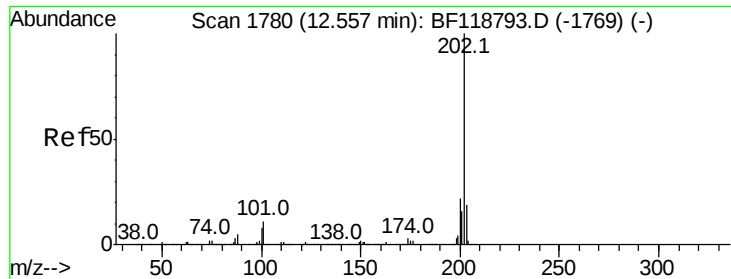
Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Tgt Ion:	167	Resp:	61632
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.4	27.6
139	12.7	11.1	16.7

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 30.608 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.02 min

Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Instrument :

BNA_F

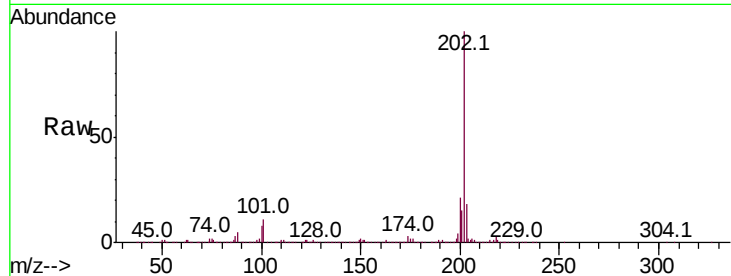
ClientSampleId :

TP7-EP2-2DL

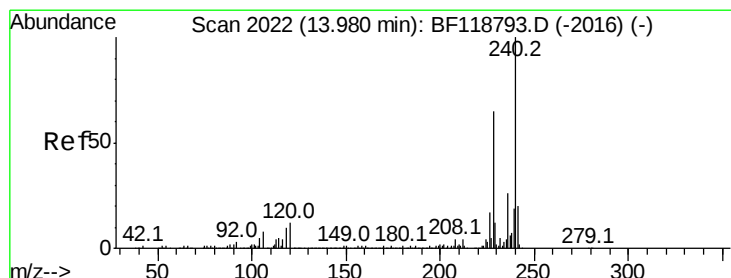
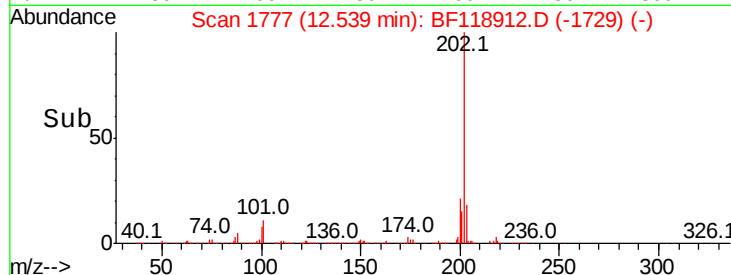
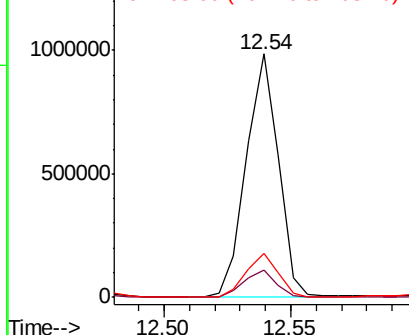
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.0	0.0	31.0
203	18.3	0.0	38.7

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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: 13.96 min Scan# 2019

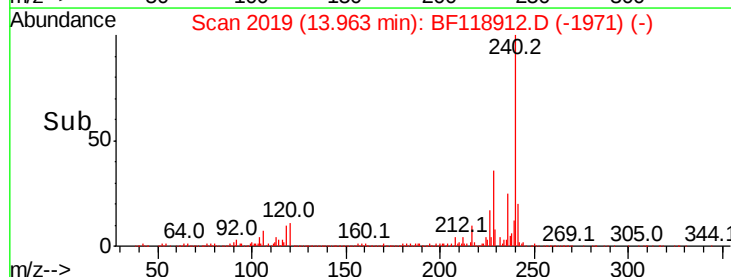
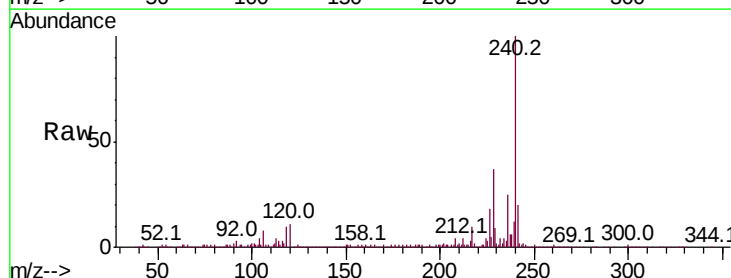
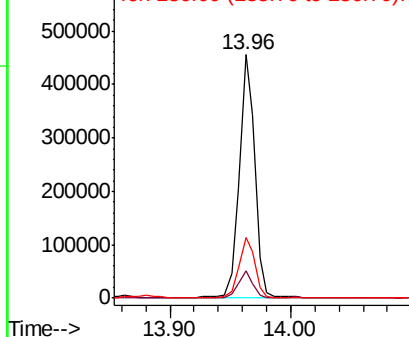
Delta R.T. -0.02 min

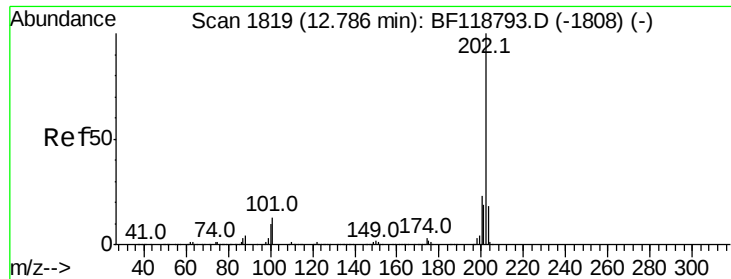
Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	11.0	9.4	14.0
236	25.1	21.0	31.6

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: 38.447 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Instrument :

BNA_F

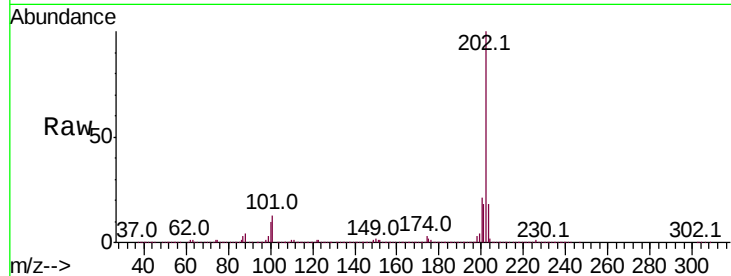
ClientSampleId :

TP7-EP2-2DL

Tot Ion:	202	Resp:	1073183
Ion	Ratio	Lower	Upper
202	100		
200	21.3	18.2	27.2
203	17.7	14.8	22.2

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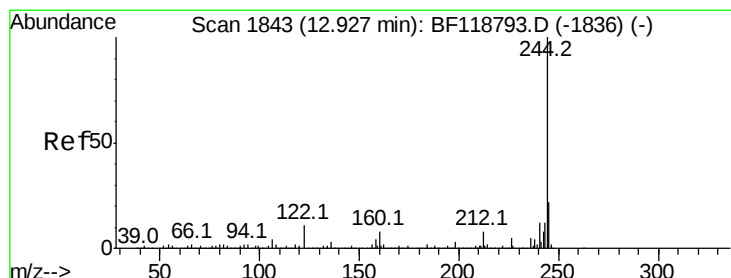
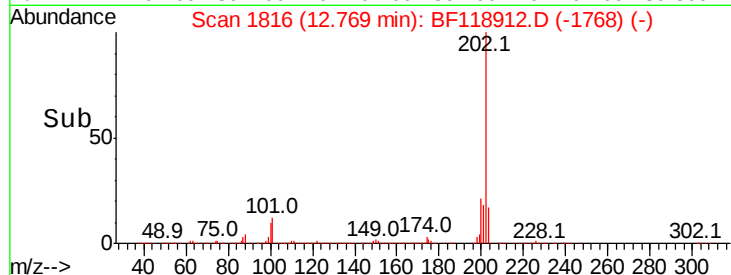
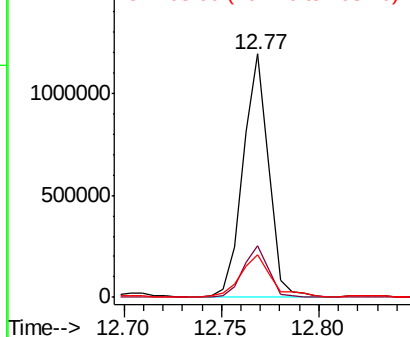


Abundance

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



#79

Terphenyl-d14

Concen: 3.280 ng

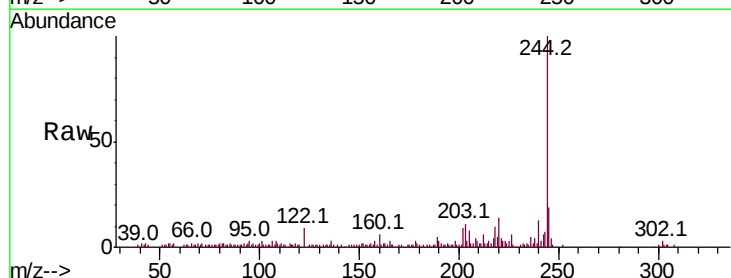
RT: 12.90 min Scan# 1839

Delta R.T. -0.02 min

Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Tgt Ion:	244	Resp:	64965
Ion	Ratio	Lower	Upper
244	100		
212	6.3	6.5	9.7#
122	9.0	8.9	13.3

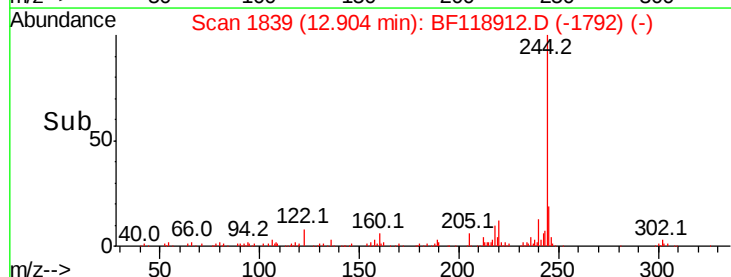
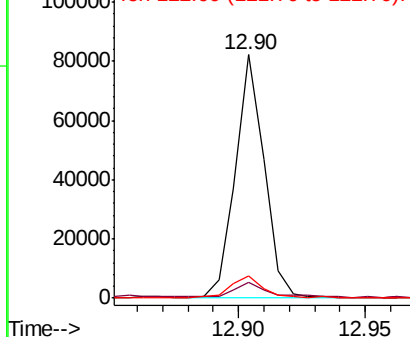


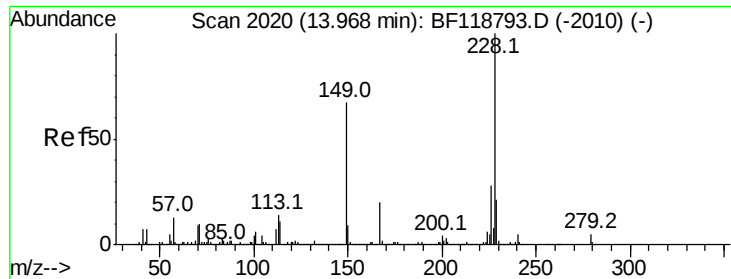
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





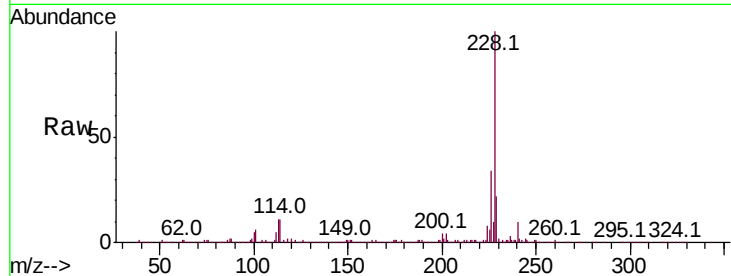
#81
Benzo(a)anthracene
Concen: 19.477 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.6	22.7	34.1
229	21.8	16.6	25.0

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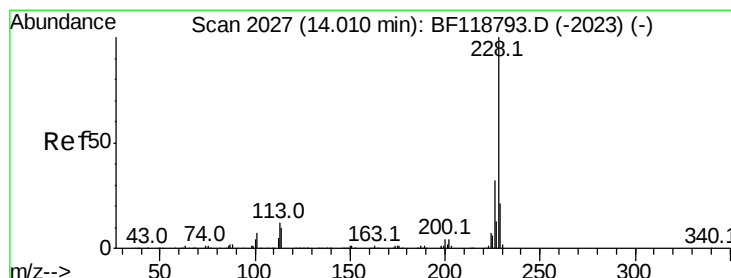
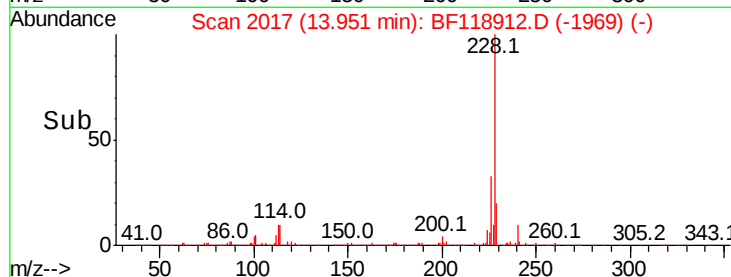
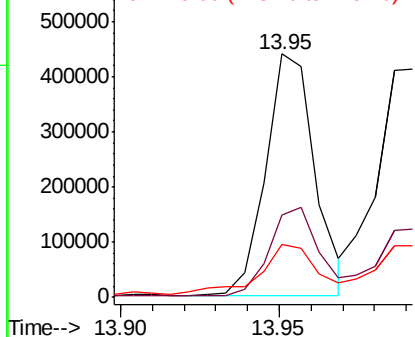


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 18.269 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

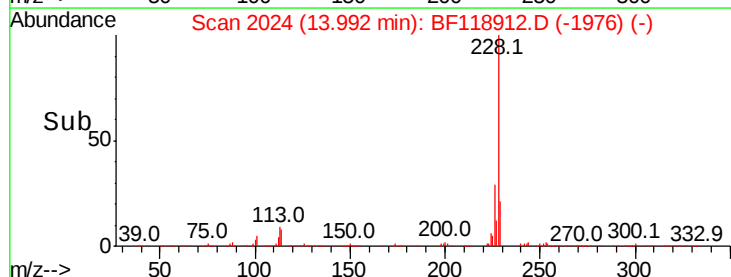
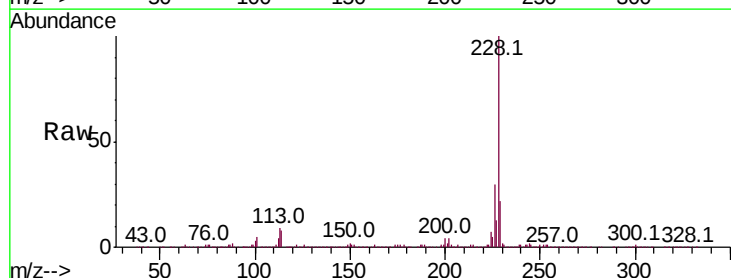
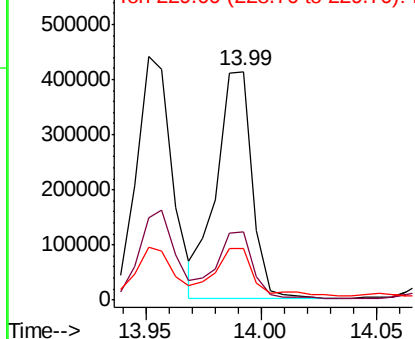
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.4	38.0
229	22.4	16.9	25.3

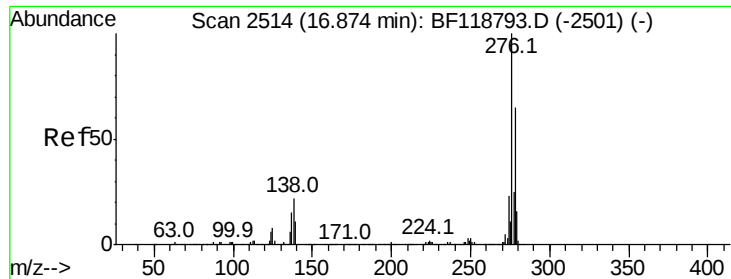
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





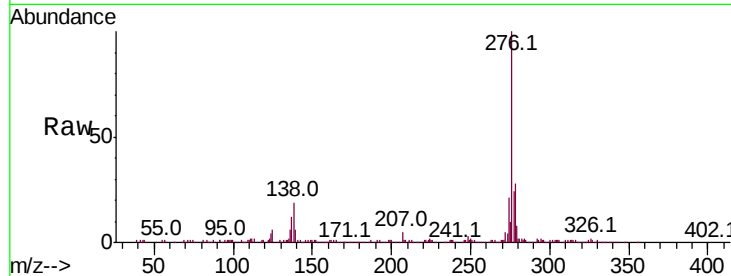
#86
Indeno(1,2,3-cd)pyrene
Concen: 11.046 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.6	18.3	27.5
277	25.2	20.2	30.4

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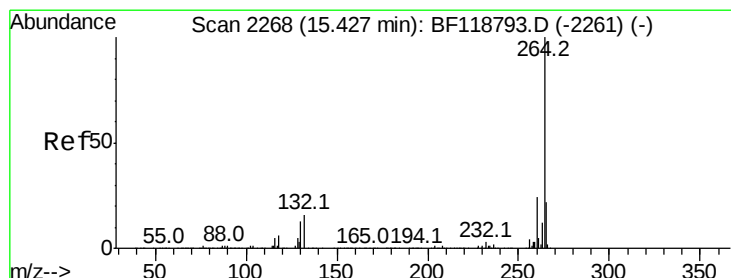
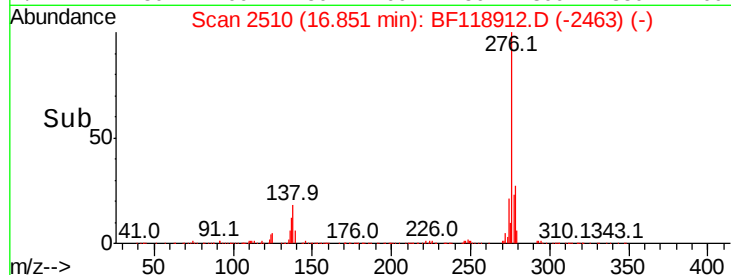
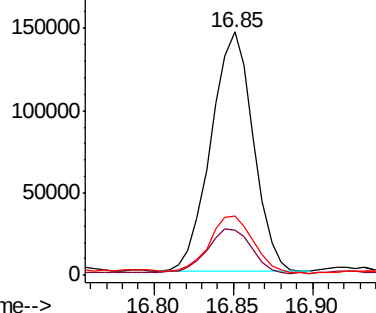


Abundance

Ion 276.00 (275.70 to 276.70): E

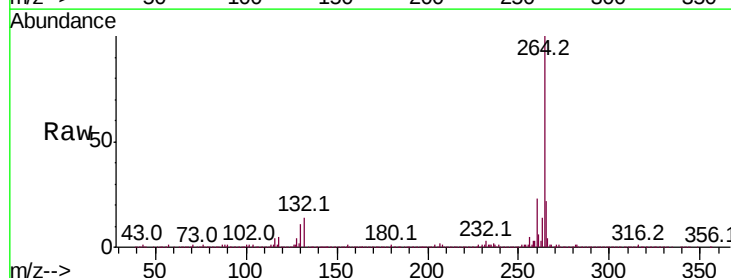
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.01 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.1	28.7
265	22.3	17.2	25.8

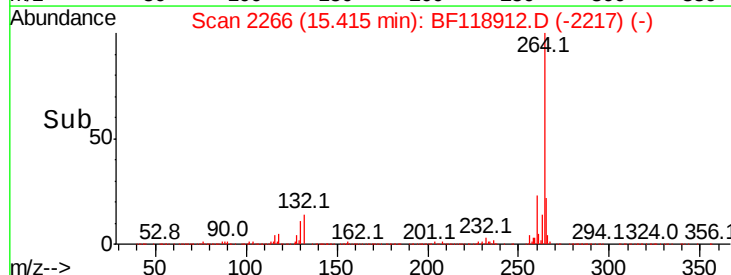
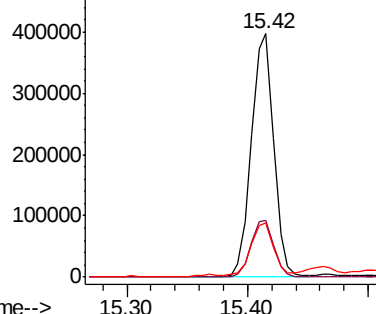


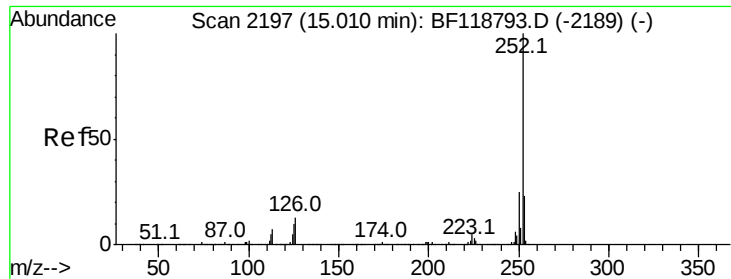
Abundance

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





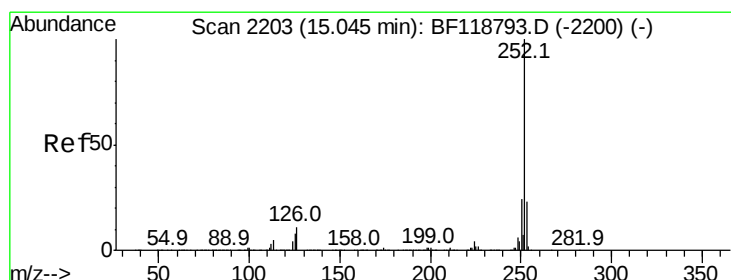
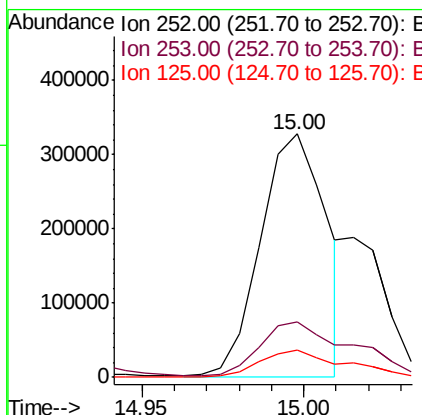
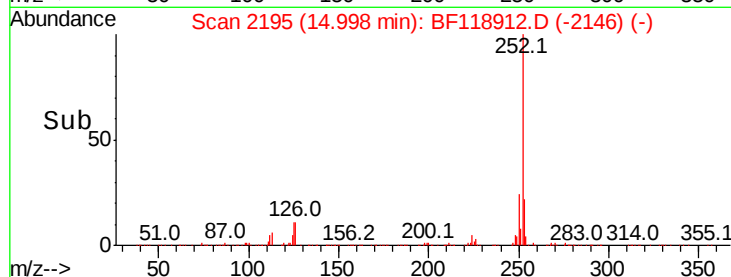
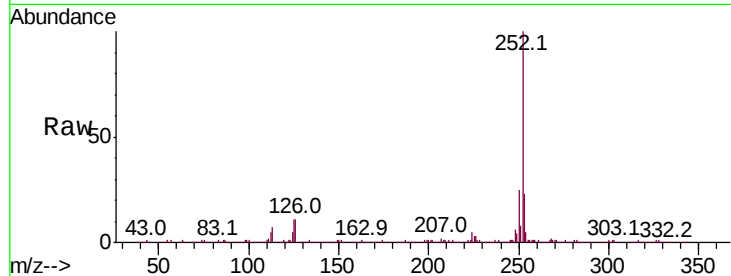
#88
Benzo(b)fluoranthene
Concen: 14.735 ng m
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.4	27.6
125	11.0	8.1	12.1

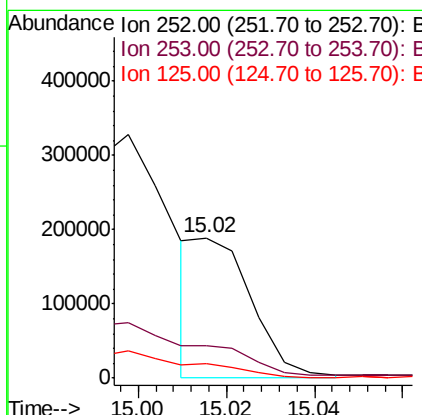
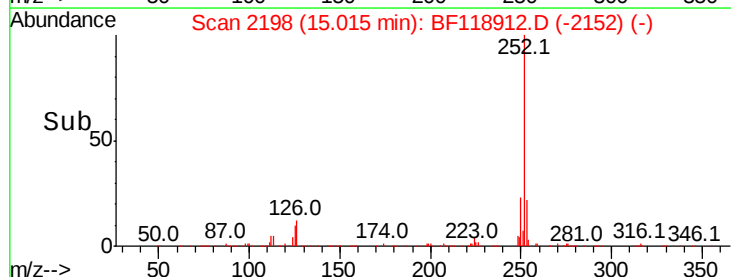
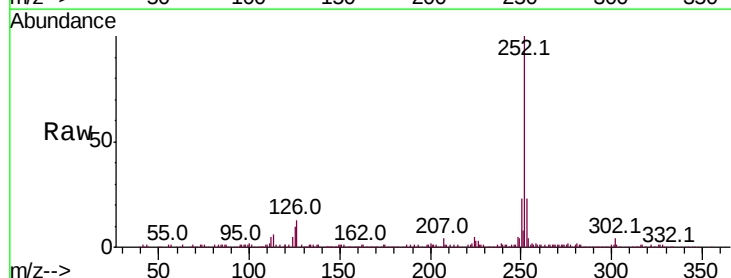
Manual Integrations
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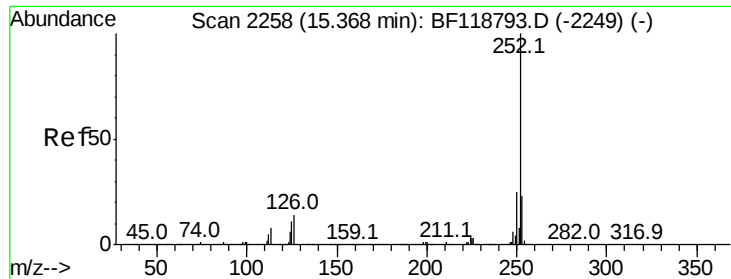
mohammad
2/13/2020 3:34:21 PM



#89
Benzo(k)fluoranthene
Concen: 6.080 ng m
RT: 15.02 min Scan# 2198
Delta R.T. -0.03 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	10.4	7.0	10.6





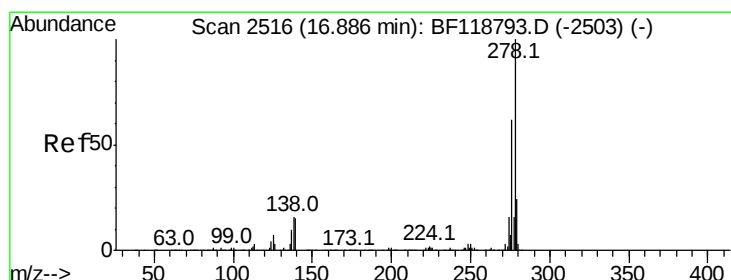
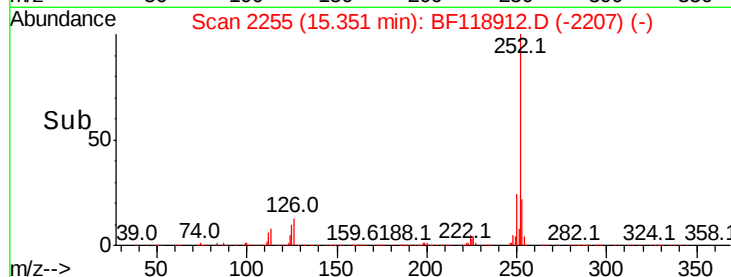
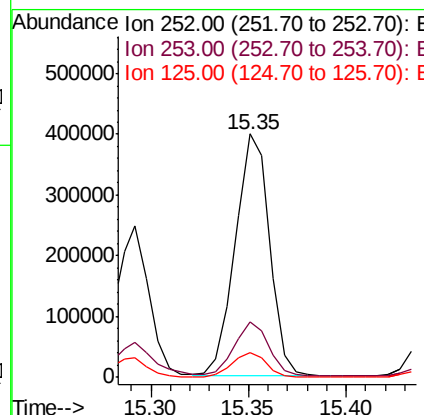
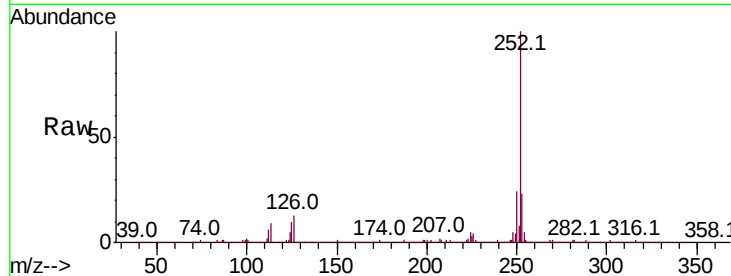
#90
Benzo(a)pyrene
Concen: 17.888 ng
RT: 15.35 min Scan# 2255
Delta R.T. -0.02 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Instrument :
BNA_F
ClientSampleId :
TP7-EP2-2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	10.4	8.7	13.1

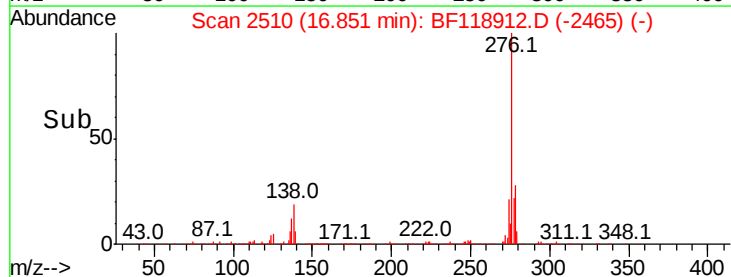
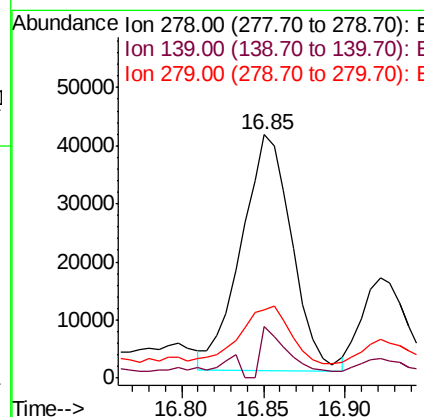
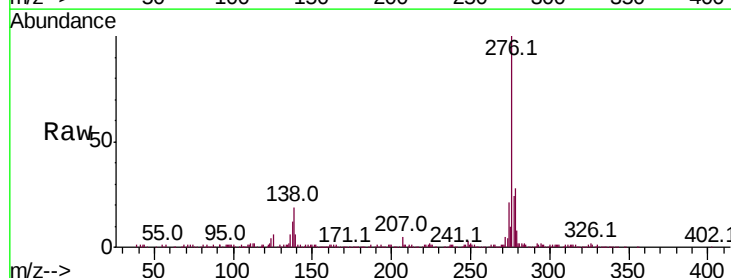
Manual Integrations
APPROVED

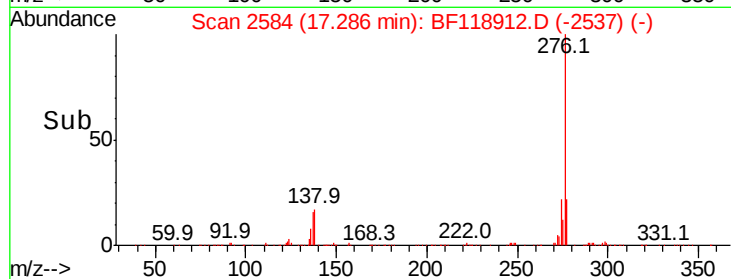
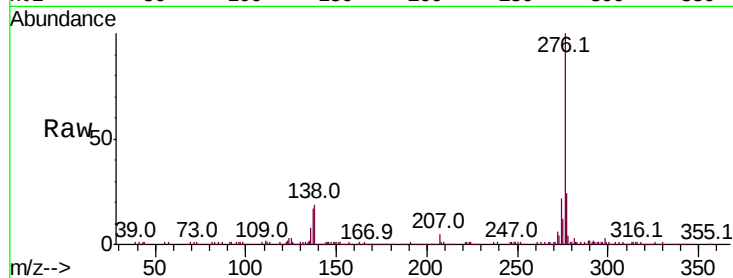
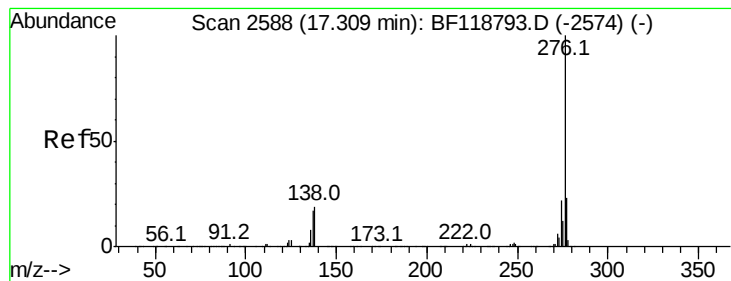
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 3.661 ng m
RT: 16.85 min Scan# 2510
Delta R.T. -0.04 min
Lab File: BF118912.D
Acq: 12 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.2	12.3	18.5#
279	27.9	19.1	28.7





#92

Benzo(a,h,i)perylene

Concen: 12.733 ng

RT: 17.29 min Scan# 2584

Delta R.T. -0.02 min

Lab File: BF118912.D

Acq: 12 Feb 2020 12:27

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100		294637		
277	23.7	18.7	28.1		
138	18.6	15.4	23.2		

Instrument :

BNA_F

ClientSampleId :

TP7-EP2-2DL

Manual Integrations
APPROVED

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