

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
 Data File : BF118876.D
 Acq On : 10 Feb 2020 18:44
 Operator : CG/JU
 Sample : L1470-07
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PE-6-(SIDE-WALL)-NORTH

Manual Integrations
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mohammad
 2/13/2020 10:28:48 AM

Quant Time: Feb 11 00:50:23 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	6.81	152	245971	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	913418	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	529124	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	1052942	20.00	ng	0.00
76) Chrysene-d12	13.97	240	800487	20.00	ng	-0.01
87) Perylene-d12	15.42	264	865254	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	1395219	107.37	ng	0.00
7) Phenol-d6	6.45	99	1715727	106.37	ng	0.00
23) Nitrobenzene-d5	7.37	82	1134717	74.05	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	673475	106.38	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	2259751	76.35	ng	-0.01
79) Terphenyl-d14	12.92	244	2857203	73.32	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.12	128	88290	2.113	ng	98
37) 2-Methylnaphthalene	8.80	142	66541	2.297	ng	97
38) 1-Methylnaphthalene	8.90	142	55003	2.018	ng	100
49) Acenaphthylene	9.71	152	149939	3.413	ng	98
50) Dimethylphthalate	9.56	163	78490	2.179	ng	99
52) Acenaphthene	9.88	154	60088	2.076	ng	99
58) Fluorene	10.39	166	119447	3.795	ng	98
71) Phenanthrene	11.36	178	1673353	32.300	ng	99
72) Anthracene	11.40	178	413169	8.017	ng	98
75) Fluoranthene	12.55	202	3103037	54.860	ng	98
78) Pyrene	12.77	202	2818418	51.323	ng	99
81) Benzo(a)anthracene	13.96	228	1576176	33.089	ng	97
83) Chrysene	14.00	228	1385945	28.990	ng	98
86) Indeno(1,2,3-cd)pyrene	16.86	276	964068	20.071	ng	96
88) Benzo(b)fluoranthene	15.00	252	1801221m	33.548	ng	
89) Benzo(k)fluoranthene	15.02	252	712820m	15.246	ng	
90) Benzo(a)pyrene	15.36	252	1387039	30.187	ng	99
91) Dibenzo(a,h)anthracene	16.86	278	255318	6.259	ng	94
92) Benzo(a,h,i)perylene	17.29	276	859213	21.903	ng	98

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

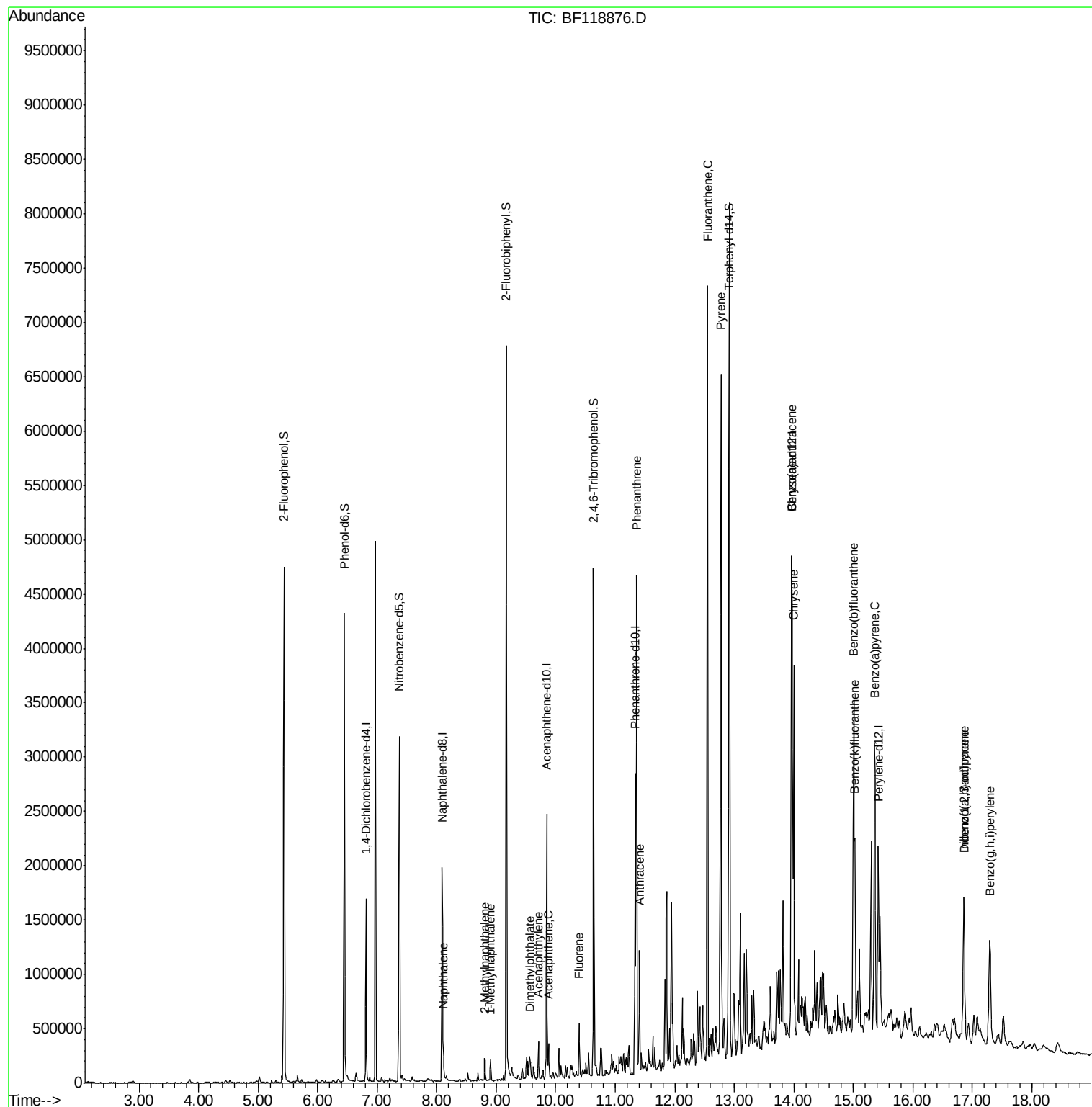
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118876.D
Acq On : 10 Feb 2020 18:44
Operator : CG/JU
Sample : L1470-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

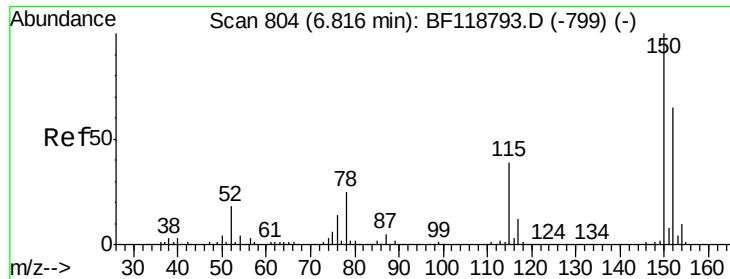
Instrument :
BNA_F
ClientSampleId :
PE-6-(SIDE-WALL)-NORTH

Manual Integrations
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Quant Time: Feb 11 00:50:23 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
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#1

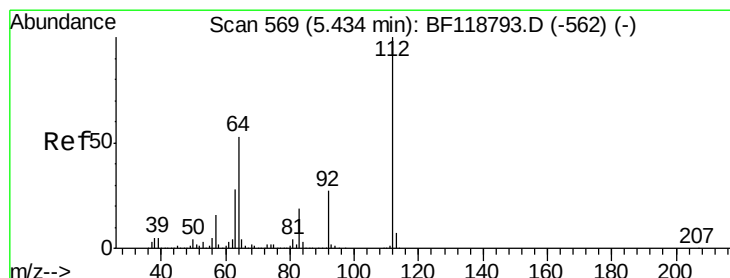
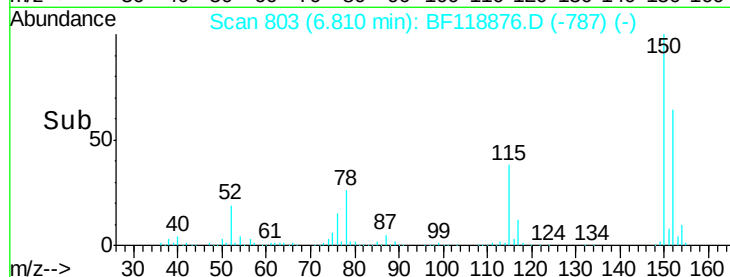
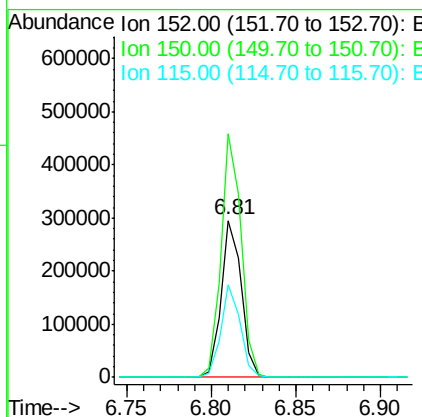
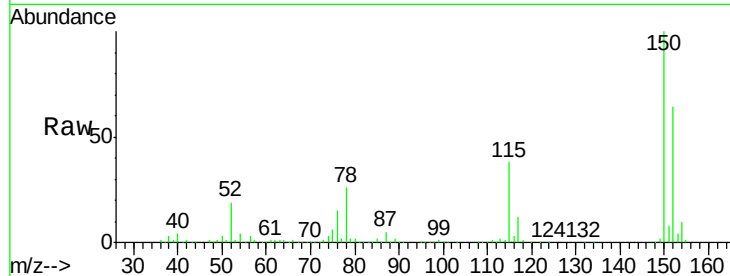
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Instrument :
BNA_F
ClientSampleId :
PE-6-(SIDE-WALL)-NORTH

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	123.6	185.4
115	59.2	48.2	72.2

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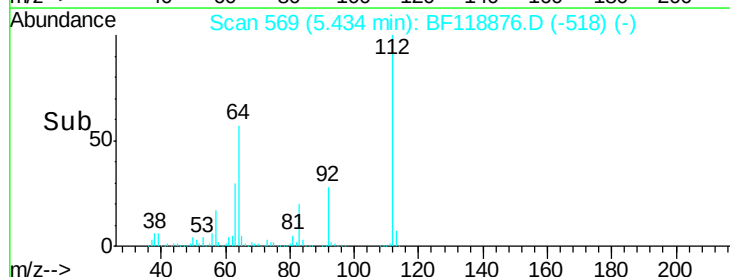
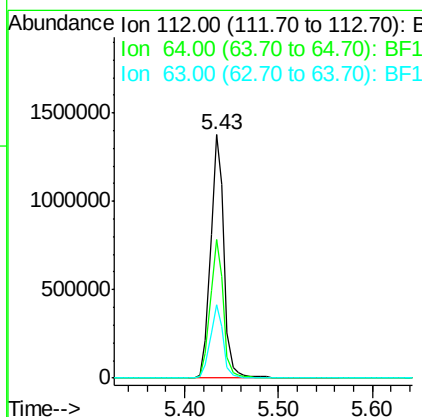
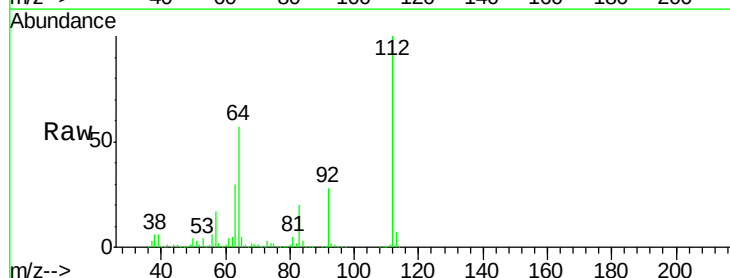
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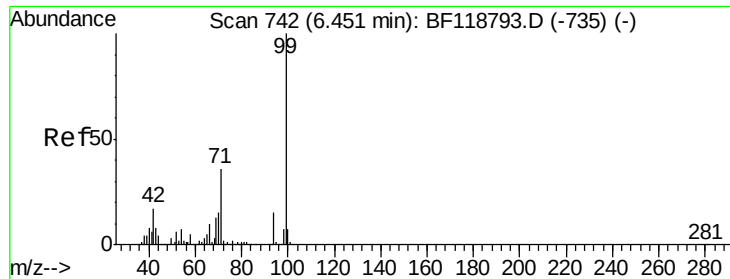


#5

2-Fluorophenol
Concen: 107.372 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.00 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	42.6	63.8
63	30.3	22.2	33.4





#7

Phenol-d6

Concen: 106.366 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.00 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Instrument :

BNA_F

ClientSampleId :

PE-6-(SIDE-WALL)-NORTH

Tot Ion: 99 Resp: 1715727

Ion Ratio Lower Upper

99 100

42 15.7 13.4 20.0

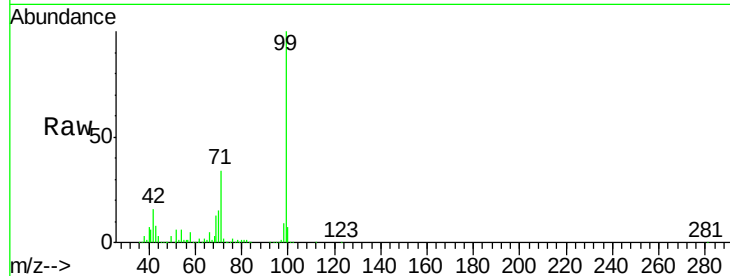
71 33.7 29.0 43.6

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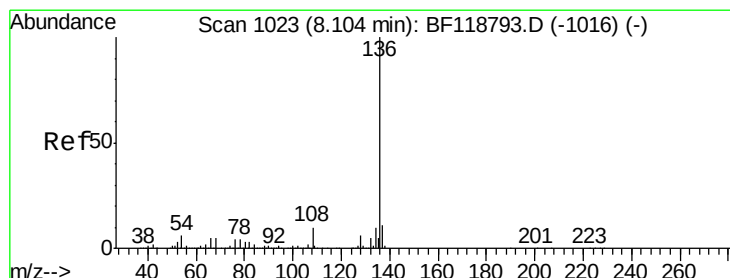
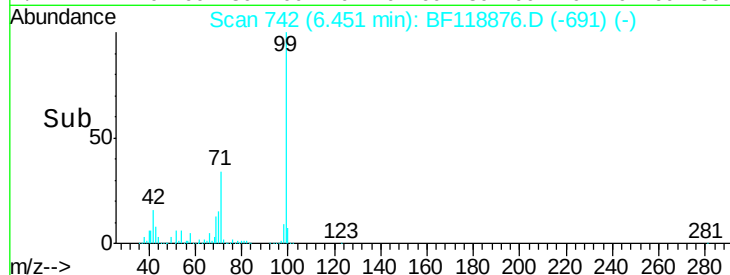
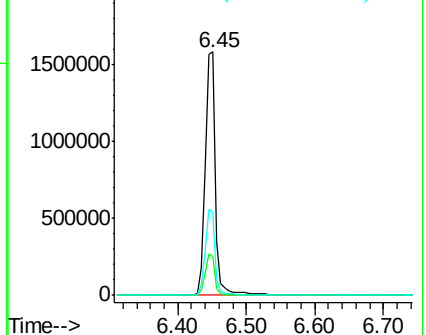
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Tgt Ion: 136 Resp: 913418

Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 7.0 5.0 7.6

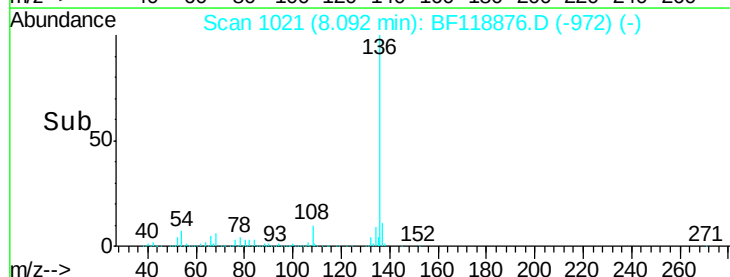
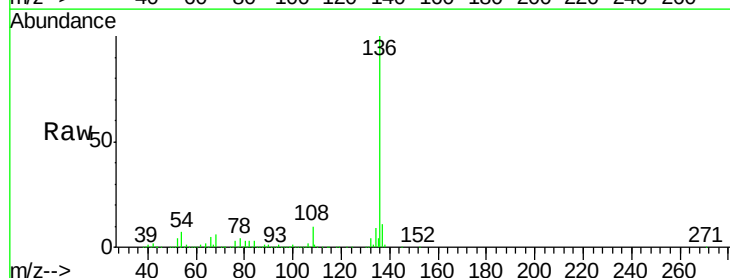
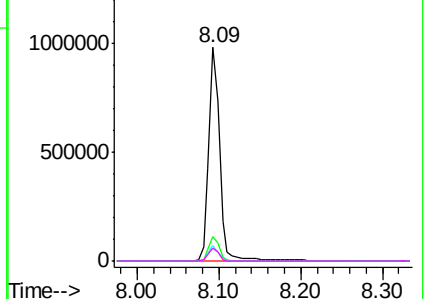
68 6.3 4.2 6.4

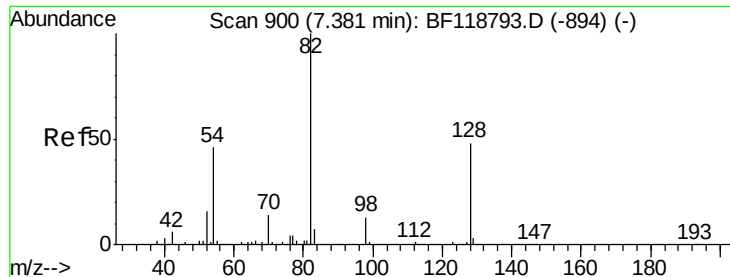
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





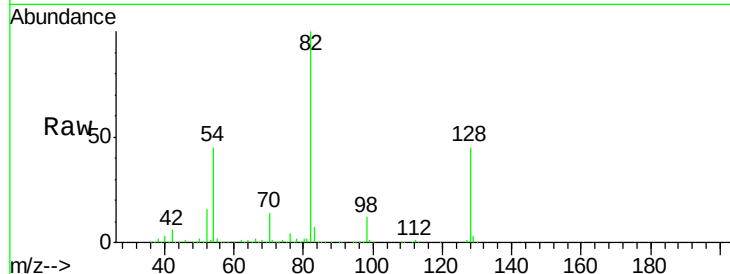
#23
Nitrobenzene-d5
Concen: 74.046 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Instrument :
BNA_F
ClientSampled :
PE-6-(SIDE-WALL)-NORTH

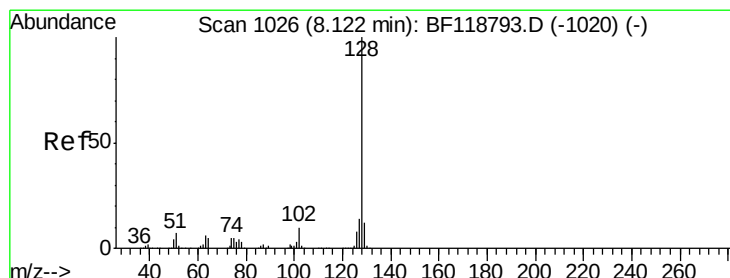
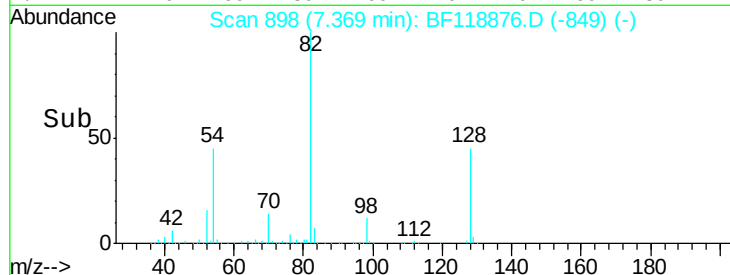
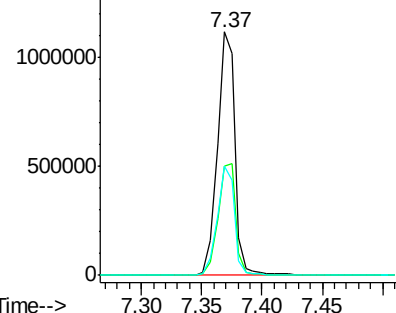
Tot Ion	Ratio	Lower	Upper
82	100		
128	45.1	38.5	57.7
54	45.0	36.7	55.1

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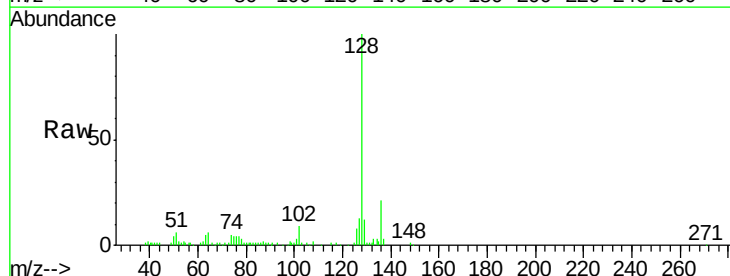


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

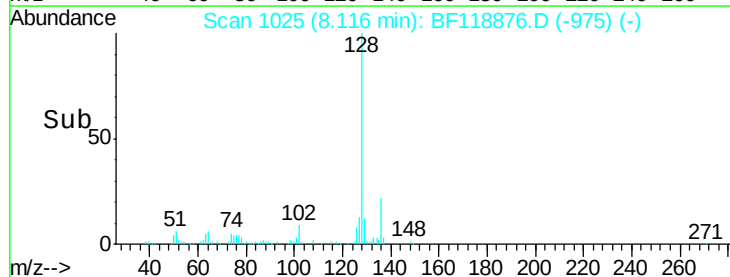
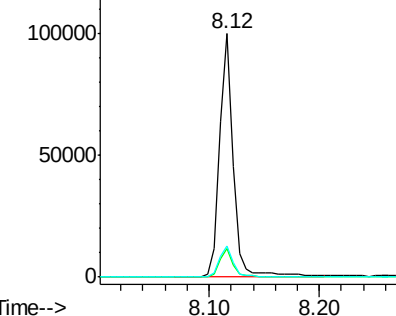


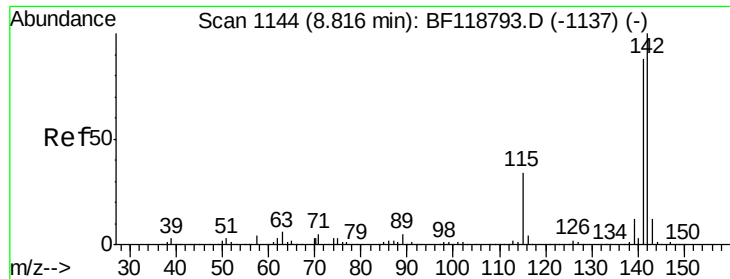
#31
Naphthalene
Concen: 2.113 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.4	14.2
127	12.6	11.3	16.9



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





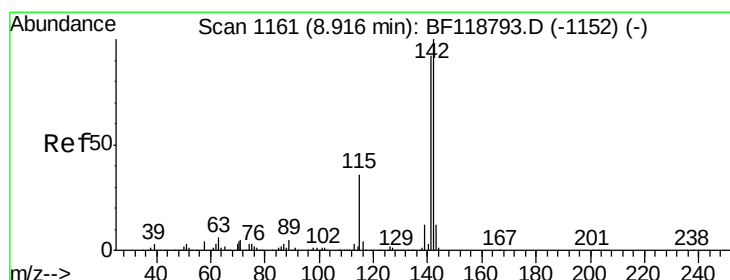
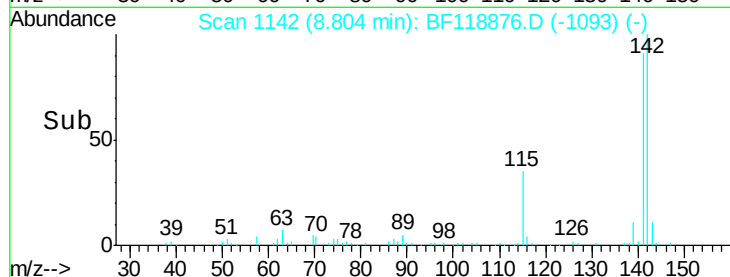
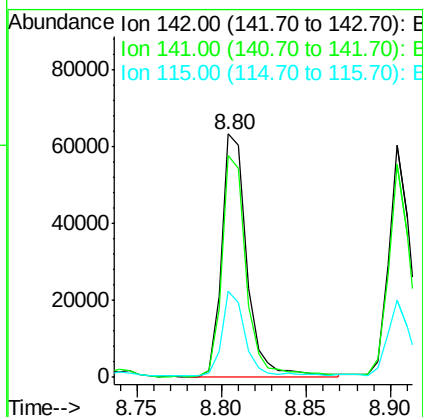
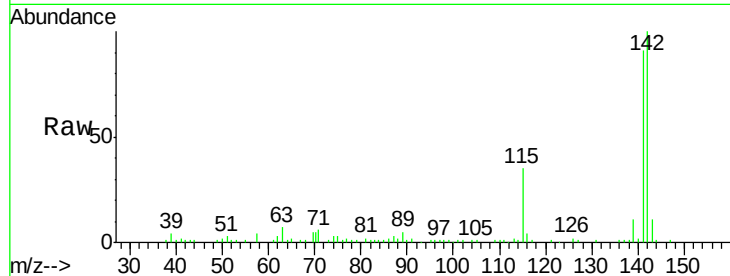
#37
2-Methylnaphthalene
Concen: 2.297 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Instrument :
BNA_F
ClientSampleId :
PE-6-(SIDE-WALL)-NORTH

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	70.1	105.1
115	35.2	27.3	40.9

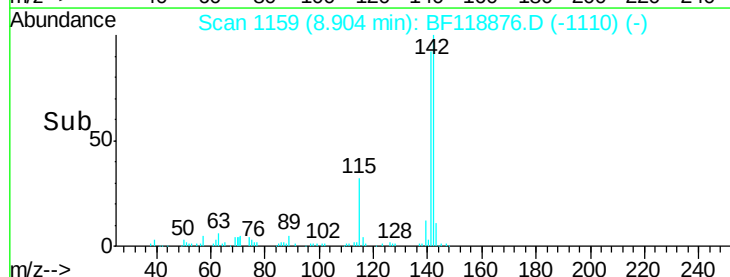
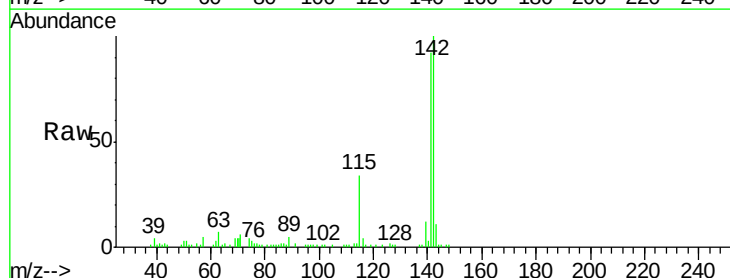
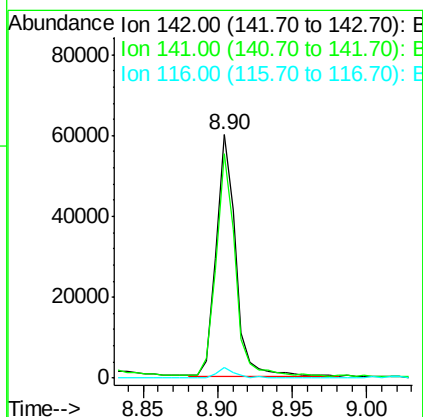
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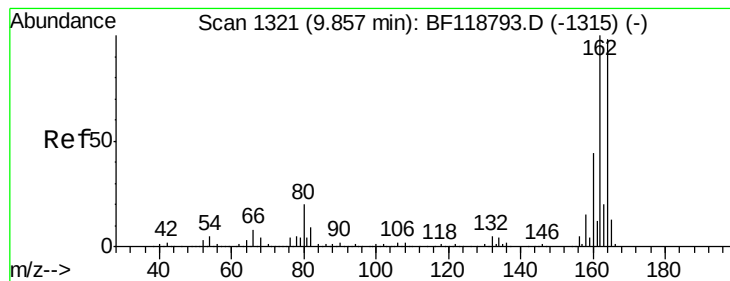
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#38
1-Methylnaphthalene
Concen: 2.018 ng
RT: 8.90 min Scan# 1159
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.8	110.6
116	4.3	3.0	4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Instrument :

BNA_F

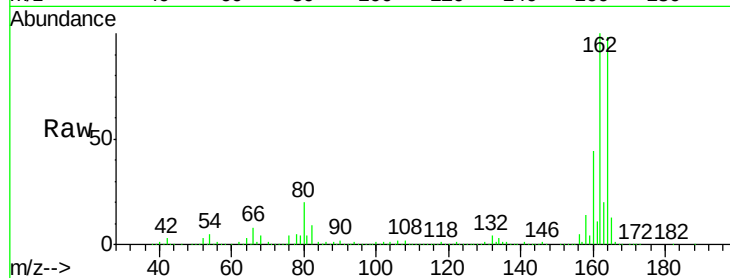
ClientSampleId :

PE-6-(SIDE-WALL)-NORTH

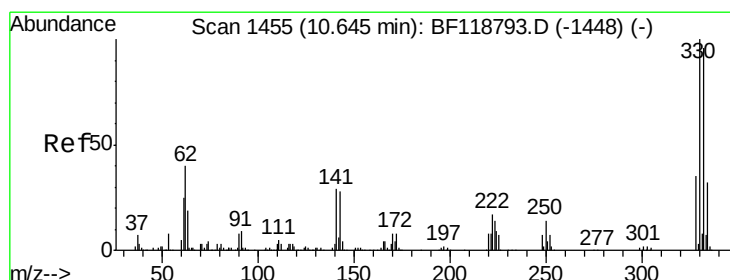
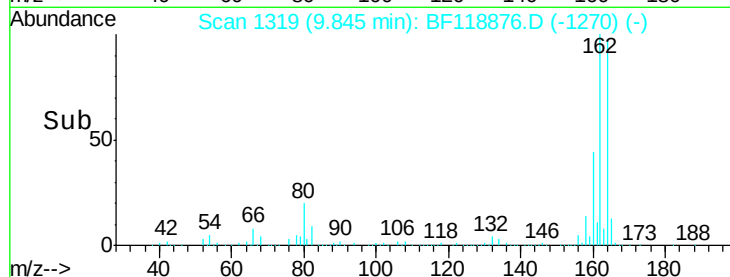
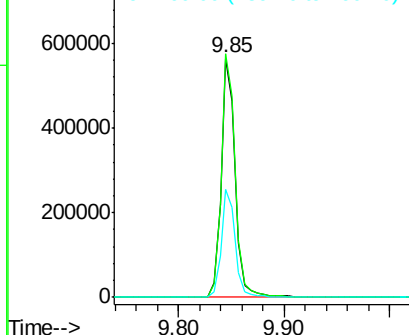
Tot Ion:	164	Resp:	529124
Ion Ratio	Lower	Upper	
164	100		
162	102.0	81.4	122.2
160	45.1	35.6	53.4

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 106.375 ng

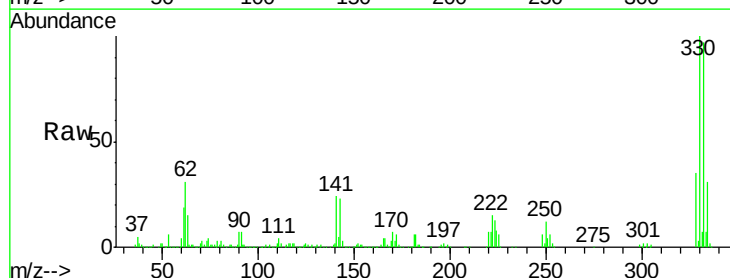
RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

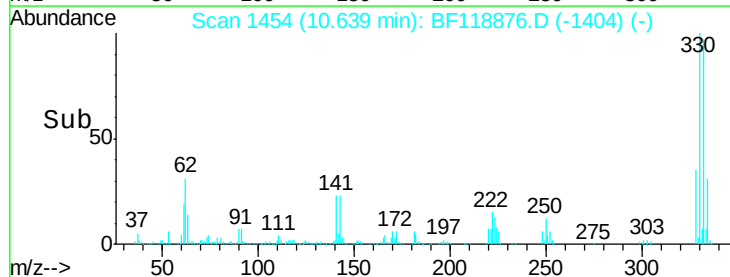
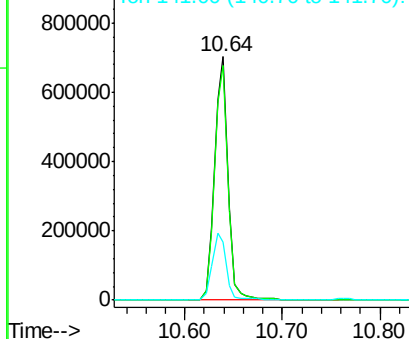
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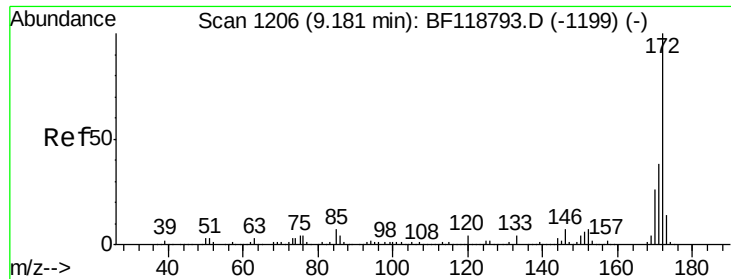
Acq: 10 Feb 2020 18:44

Tgt Ion:	330	Resp:	673475
Ion Ratio	Lower	Upper	
330	100		
332	96.8	77.3	115.9
141	27.9	22.4	33.6



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





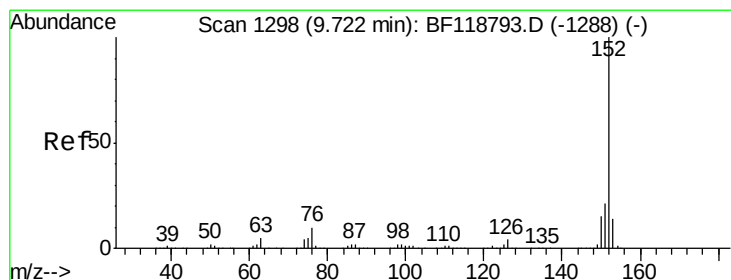
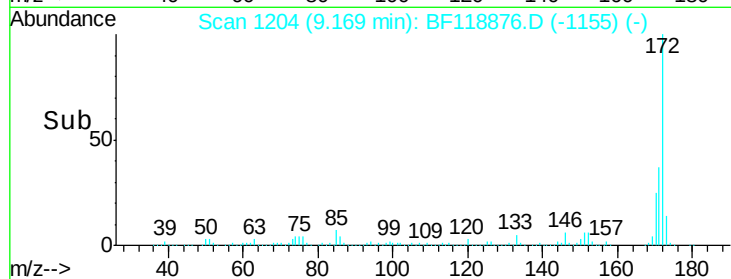
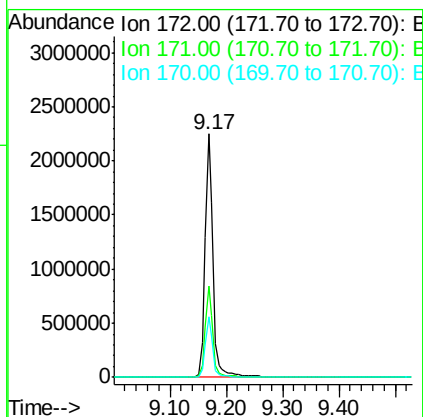
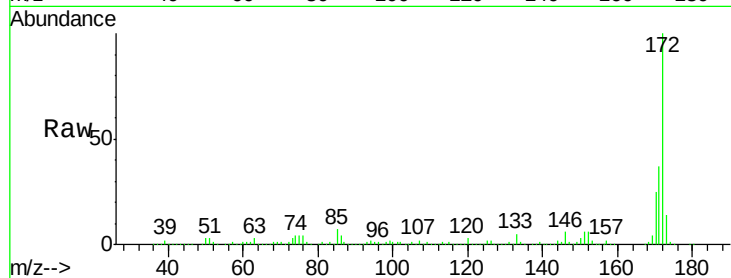
#45
2-Fluorobiphenyl
Concen: 76.348 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Instrument :
BNA_F
ClientSampleId :
PE-6-(SIDE-WALL)-NORTH

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.4	30.8	46.2
170	24.7	20.5	30.7

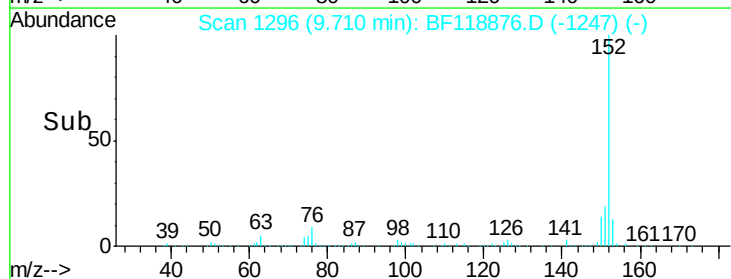
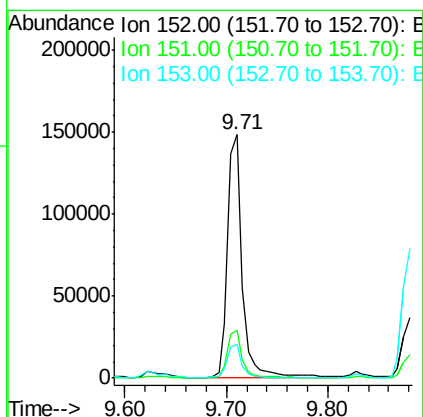
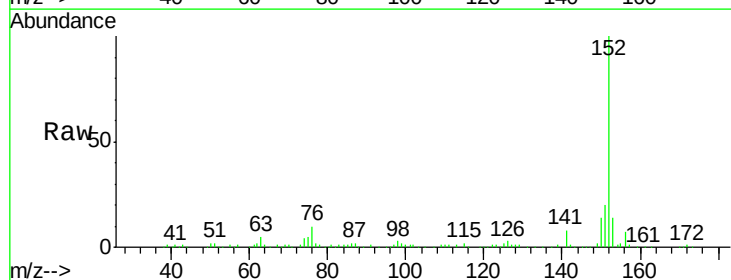
Manual Integrations
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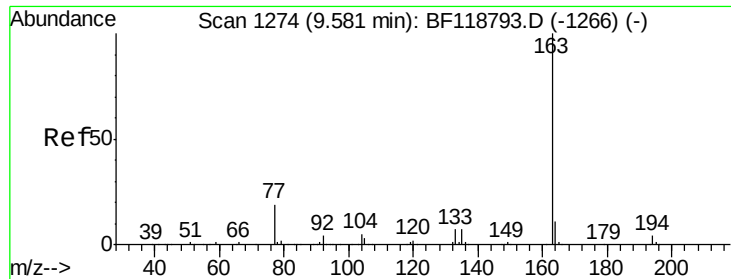
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#49
Acenaphthylene
Concen: 3.413 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	17.1	25.7
153	13.8	11.0	16.4





#50

Dimethylphthalate

Concen: 2.179 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Instrument :

BNA_F

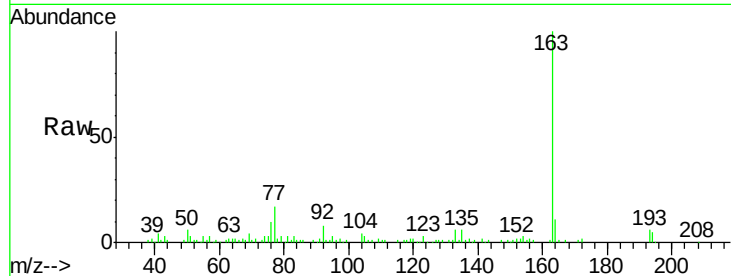
ClientSampleId :

PE-6-(SIDE-WALL)-NORTH

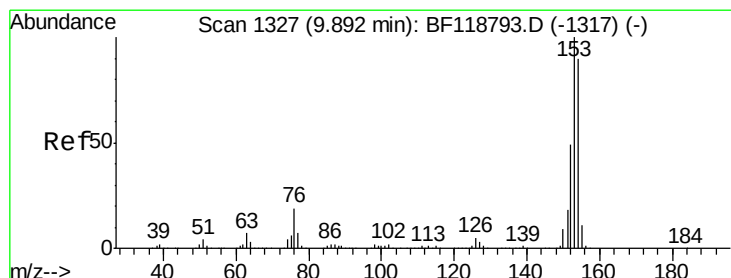
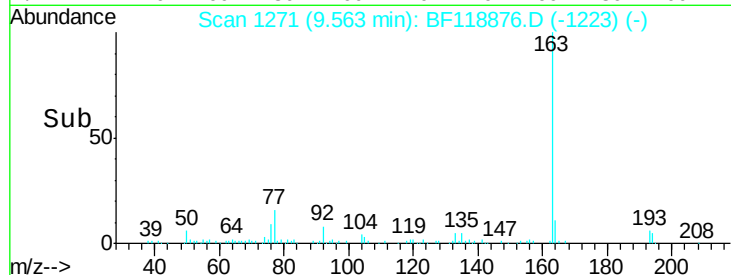
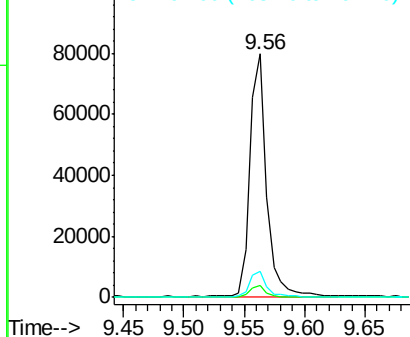
Tot Ion:	163	Resp:	78490
Ion Ratio	Lower	Upper	
163	100		
194	5.1	3.6	5.4
164	10.8	8.7	13.1

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



#52

Acenaphthene

Concen: 2.076 ng

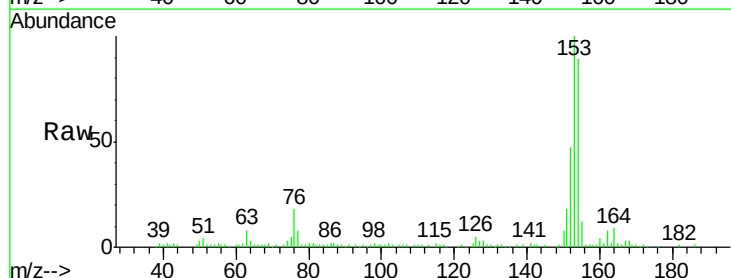
RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

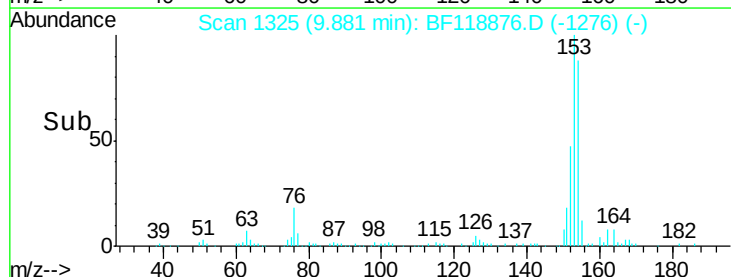
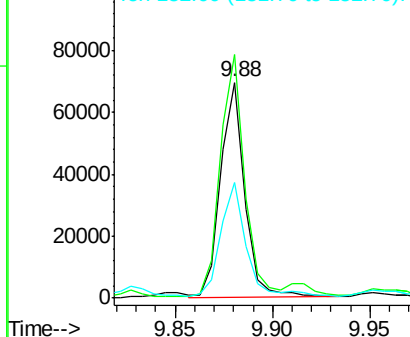
Lab File: BF118876.D

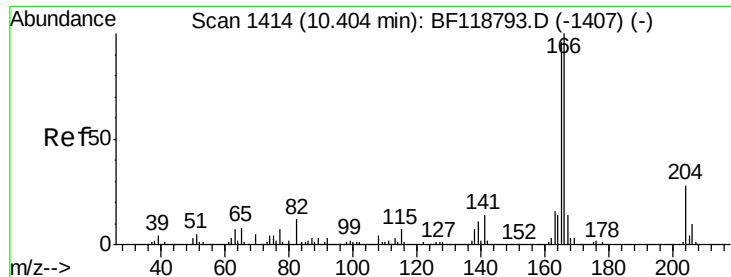
Acq: 10 Feb 2020 18:44

Tgt Ion:	154	Resp:	60088
Ion Ratio	Lower	Upper	
154	100		
153	112.9	89.4	134.0
152	53.5	43.6	65.4



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





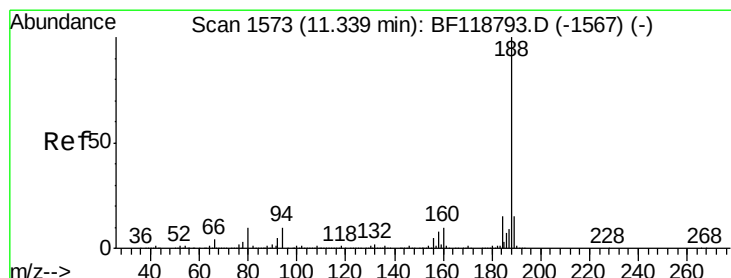
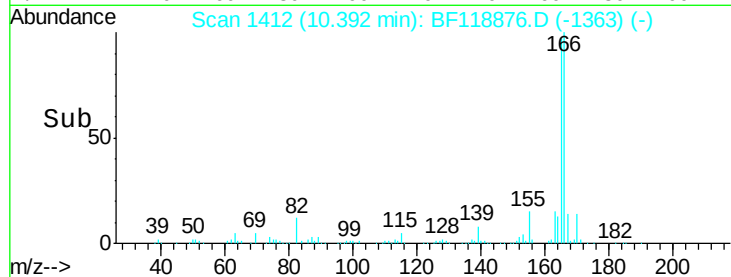
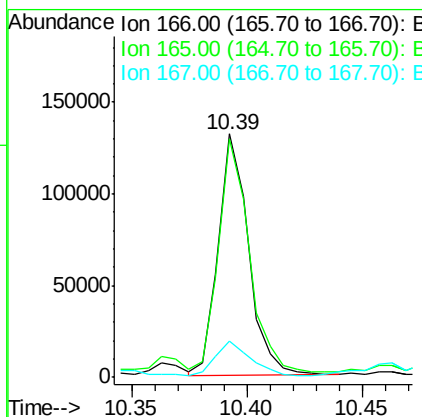
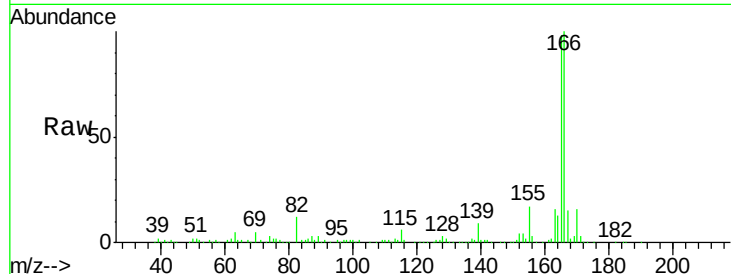
#58
 Fluorene
 Concen: 3.795 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF118876.D
 Acq: 10 Feb 2020 18:44

Instrument :
 BNA_F
 ClientSampleId :
 PE-6-(SIDE-WALL)-NORTH

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		119447		
165	97.7	77.0	115.6		
167	14.9	11.1	16.7		

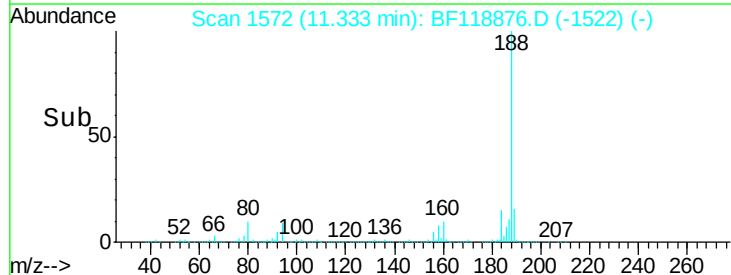
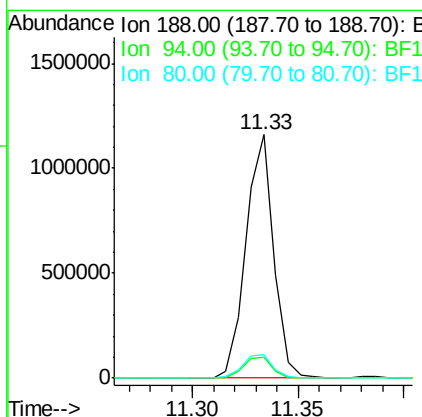
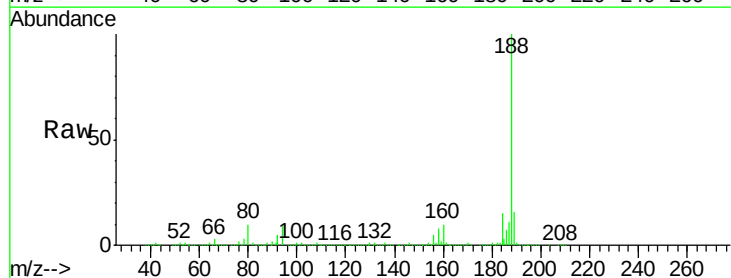
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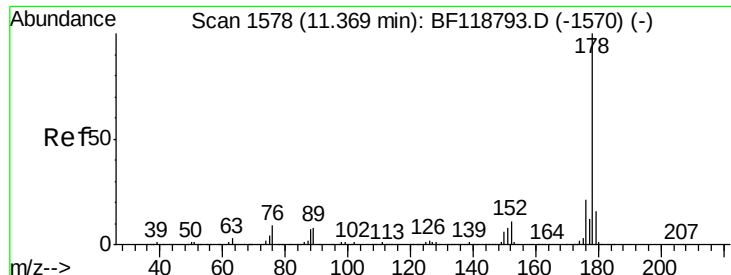
mohammad
 2/13/2020 10:28:48 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF118876.D
 Acq: 10 Feb 2020 18:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		1052942		
94	8.8	7.9	11.9		
80	9.7	8.4	12.6		





#71

Phenanthrene

Concen: 32.300 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Instrument :

BNA_F

ClientSampleId :

PE-6-(SIDE-WALL)-NORTH

Tot Ion:178 Resp: 1673353

Ion Ratio Lower Upper

178 100

176 20.0 16.6 24.8

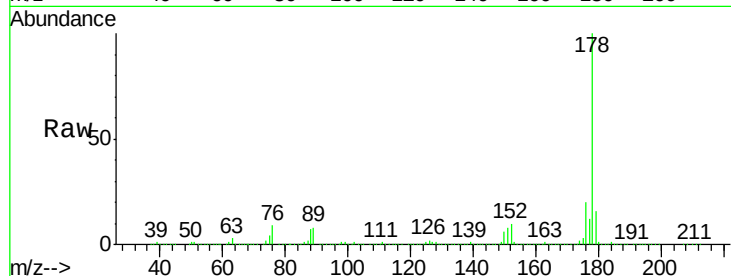
179 16.0 13.2 19.8

Manual Integrations

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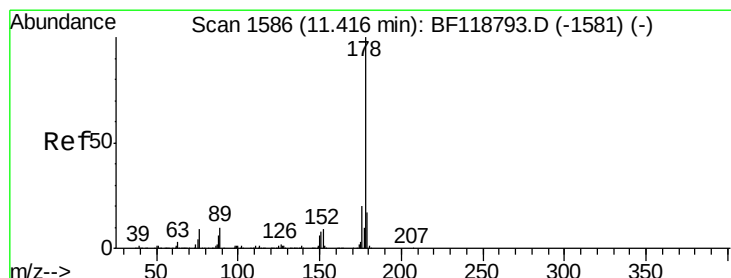
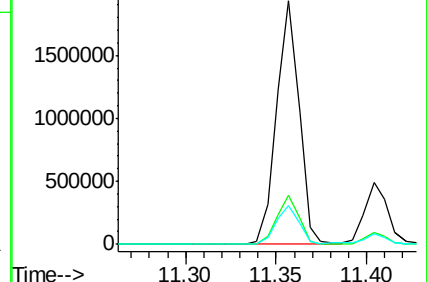
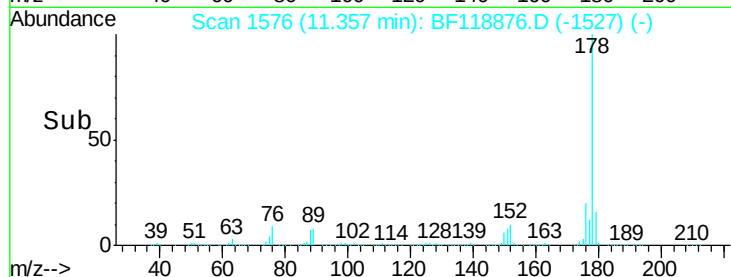
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 8.017 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

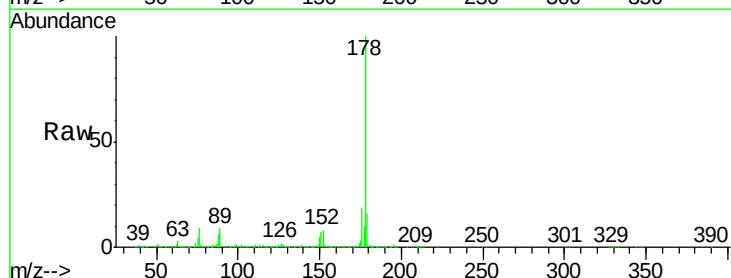
Tgt Ion:178 Resp: 413169

Ion Ratio Lower Upper

178 100

176 18.8 16.2 24.2

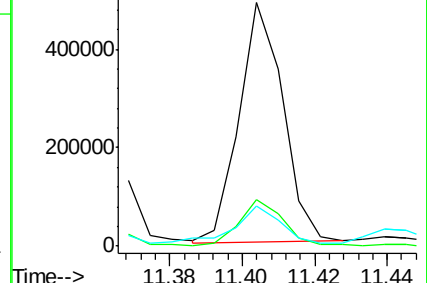
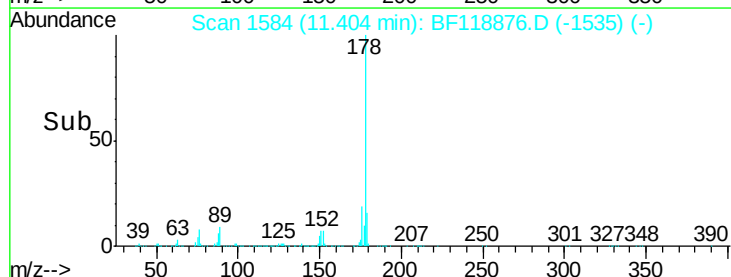
179 16.2 13.4 20.2

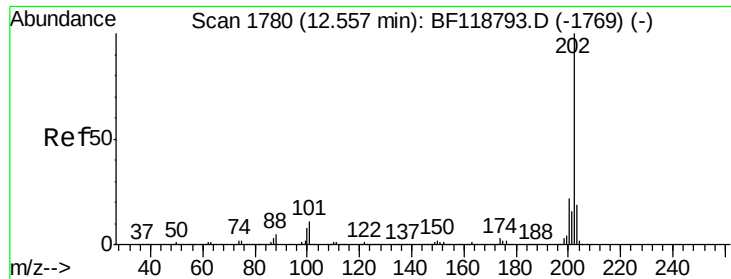


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 54.860 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Instrument :

BNA_F

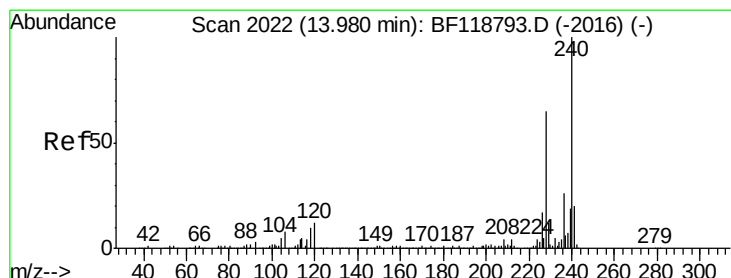
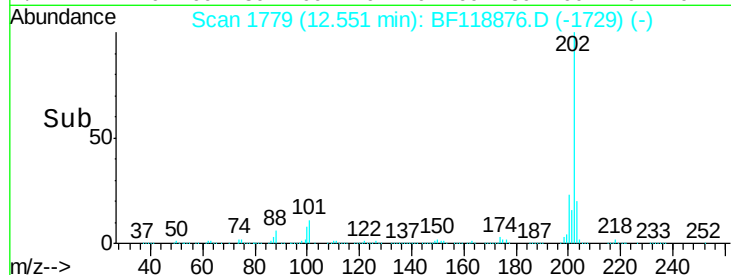
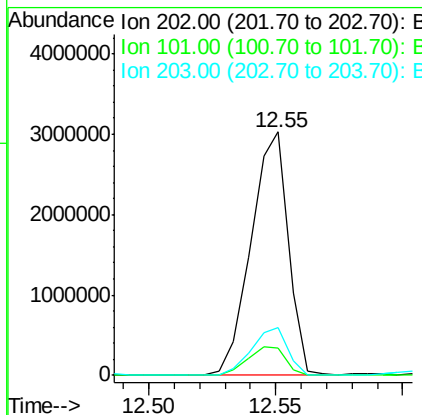
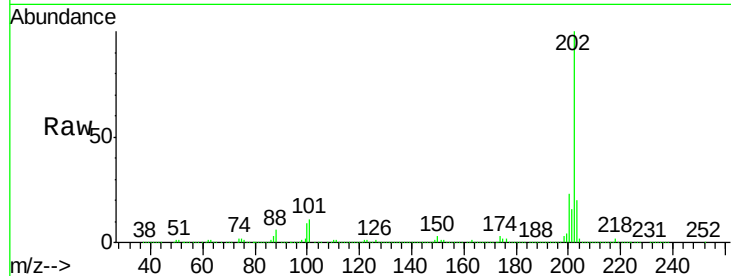
ClientSampleId :

PE-6-(SIDE-WALL)-NORTH

Tot Ion:	202	Resp:	3103037
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.0
203	19.7	0.0	38.7

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#76

Chrysene-d12

Concen: 20.000 ng

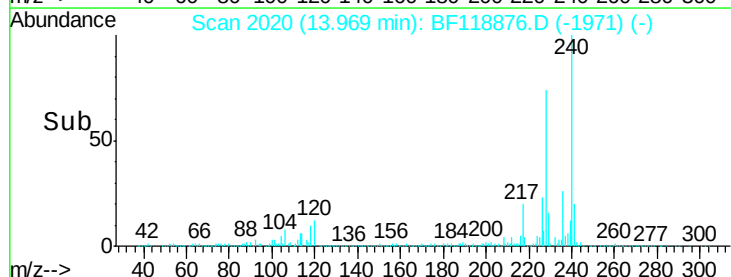
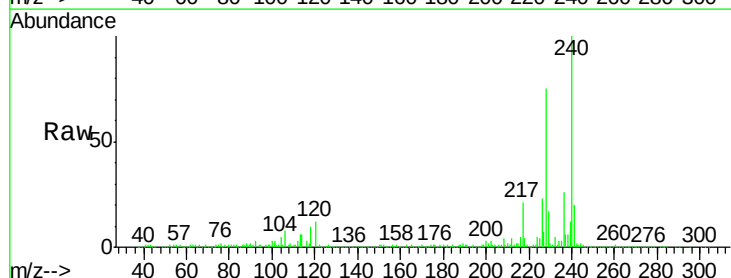
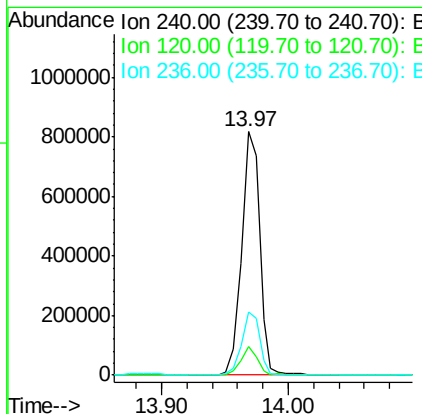
RT: 13.97 min Scan# 2020

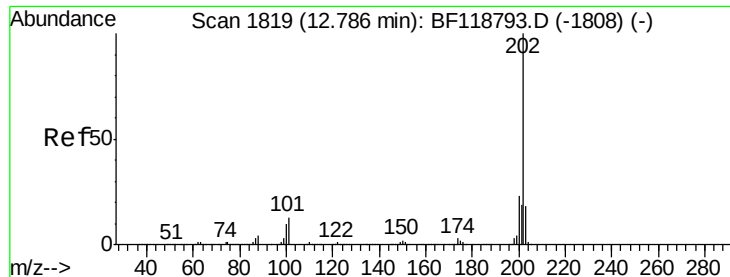
Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Tgt Ion:	240	Resp:	800487
Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.4	14.0
236	26.1	21.0	31.6





#78

Pvrene

Concen: 51.323 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Instrument :

BNA_F

ClientSampleId :

PE-6-(SIDE-WALL)-NORTH

Tot Ion:202 Resp: 2818418

Ion Ratio Lower Upper

202 100

200 22.9 18.2 27.2

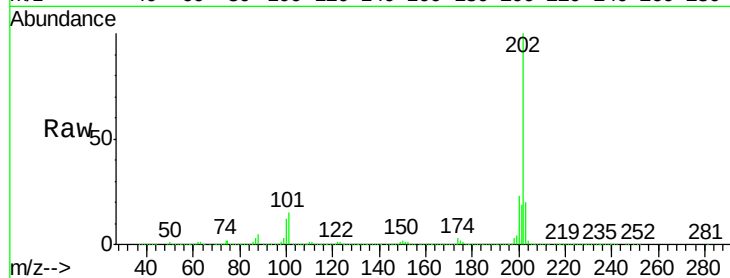
203 19.5 14.8 22.2

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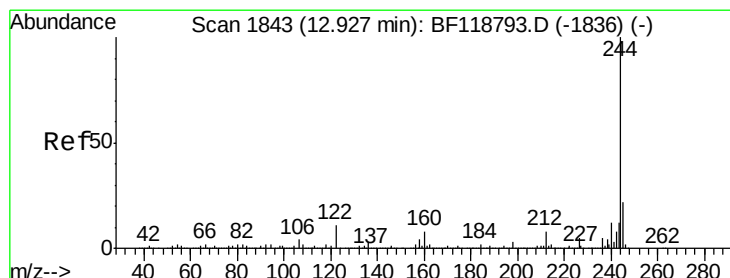
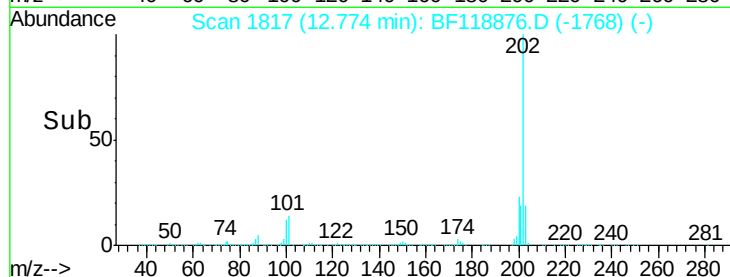
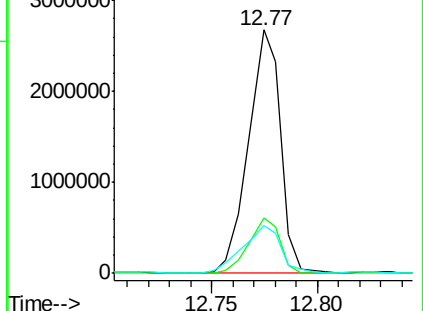
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 73.316 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

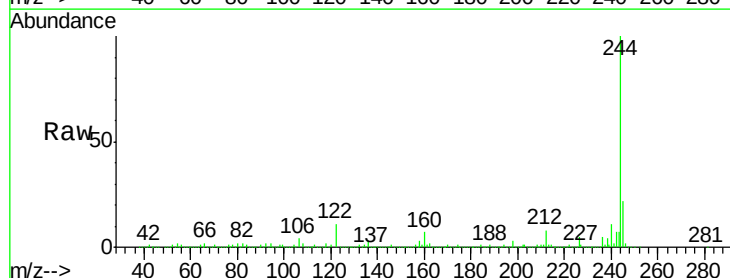
Tgt Ion:244 Resp: 2857203

Ion Ratio Lower Upper

244 100

212 7.5 6.5 9.7

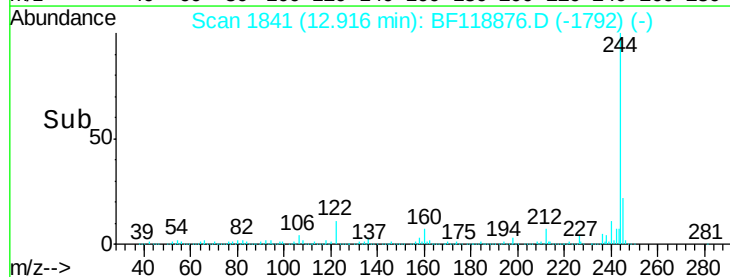
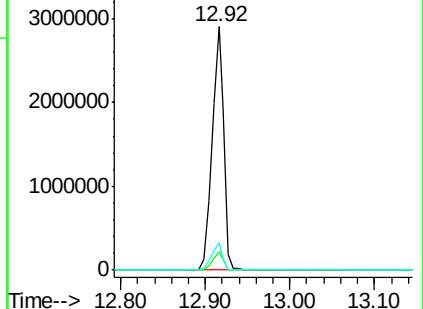
122 11.2 8.9 13.3

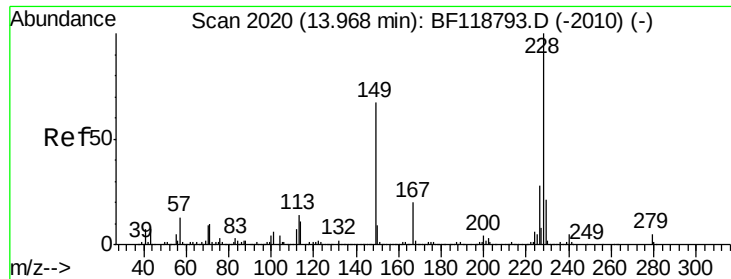


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





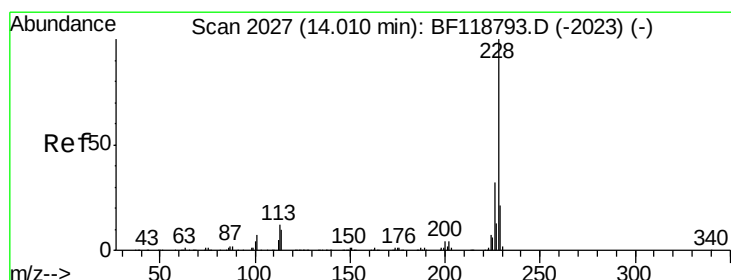
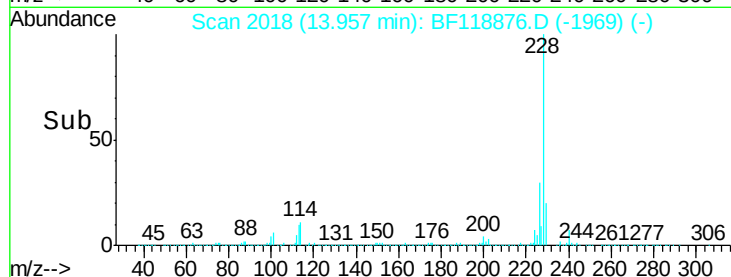
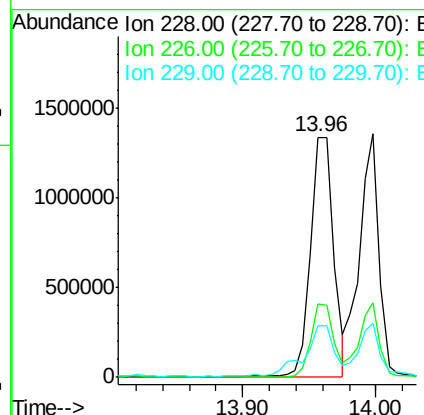
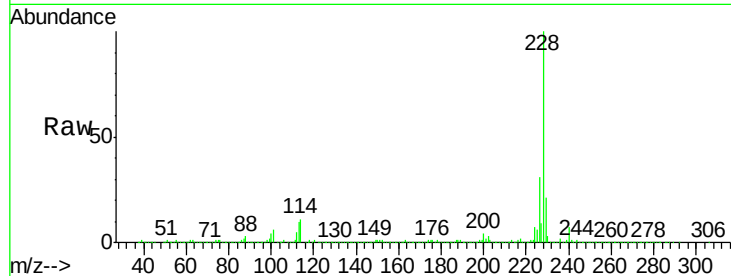
#81
Benzo(a)anthracene
Concen: 33.089 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Instrument :
BNA_F
ClientSampleId :
PE-6-(SIDE-WALL)-NORTH

Tot Ion:228 Resp: 1576176
Ion Ratio Lower Upper
228 100
226 30.7 22.7 34.1
229 21.2 16.6 25.0

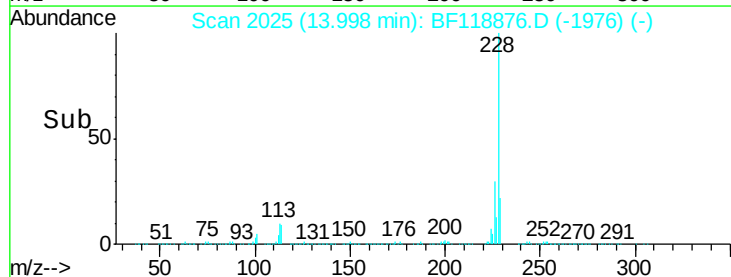
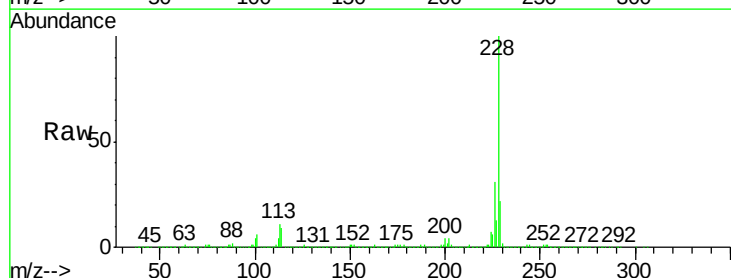
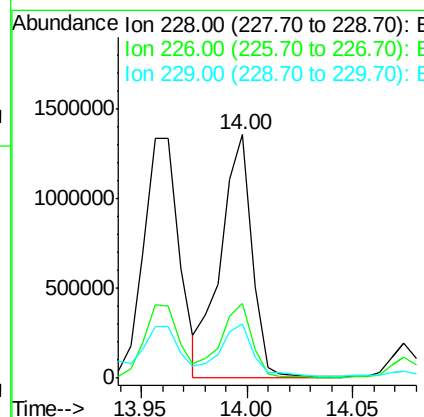
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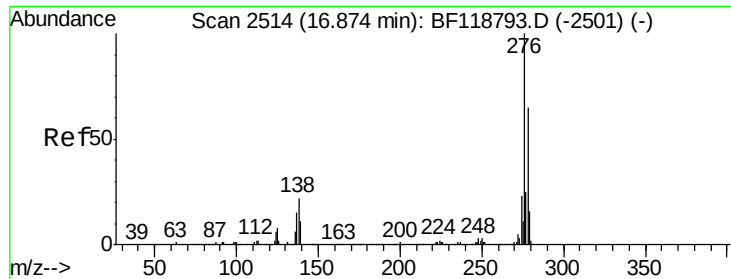
mohammad
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#83
Chrysene
Concen: 28.990 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Tgt Ion:228 Resp: 1385945
Ion Ratio Lower Upper
228 100
226 30.7 25.4 38.0
229 22.5 16.9 25.3





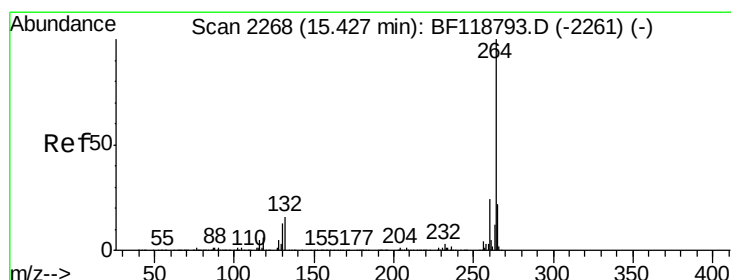
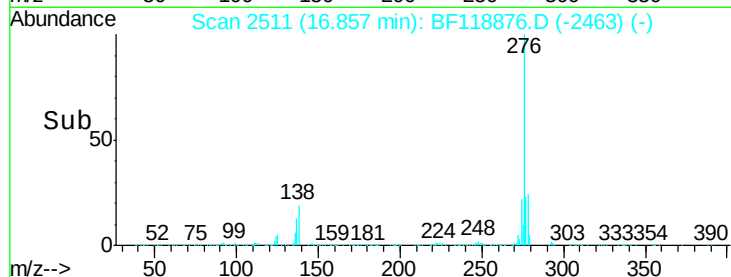
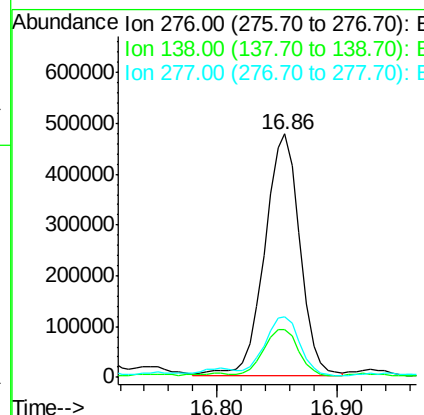
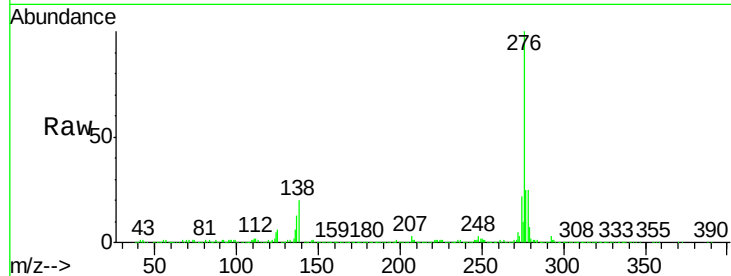
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 20.071 ng
 RT: 16.86 min Scan# 2511
 Delta R.T. -0.02 min
 Lab File: BF118876.D
 Acq: 10 Feb 2020 18:44

Instrument :
 BNA_F
 ClientSampleId :
 PE-6-(SIDE-WALL)-NORTH

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.6	18.3	27.5
277	24.2	20.2	30.4

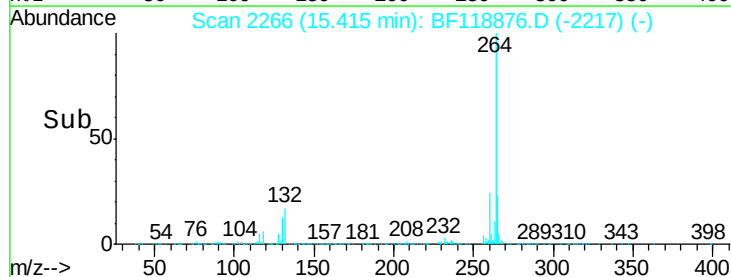
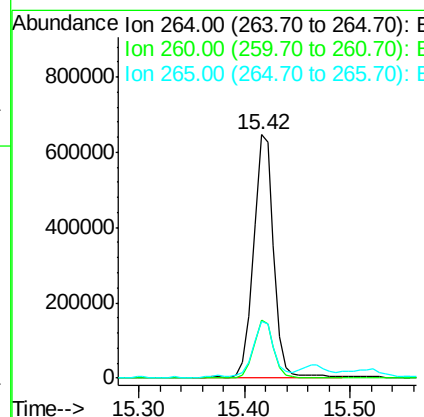
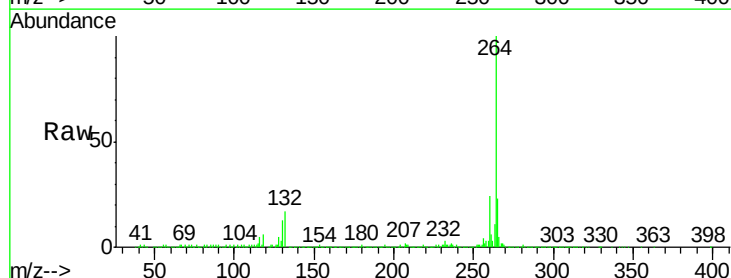
Manual Integrations
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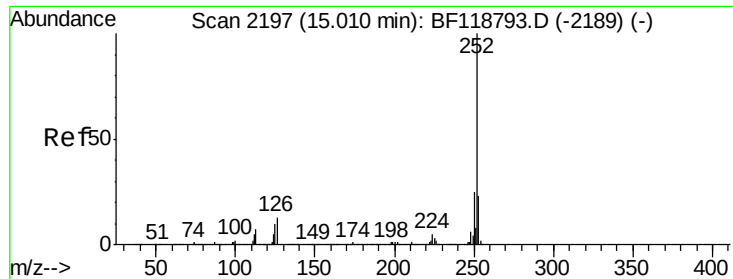
mohammad
 2/13/2020 10:28:48 AM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.42 min Scan# 2266
 Delta R.T. -0.01 min
 Lab File: BF118876.D
 Acq: 10 Feb 2020 18:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.1	28.7
265	23.1	17.2	25.8





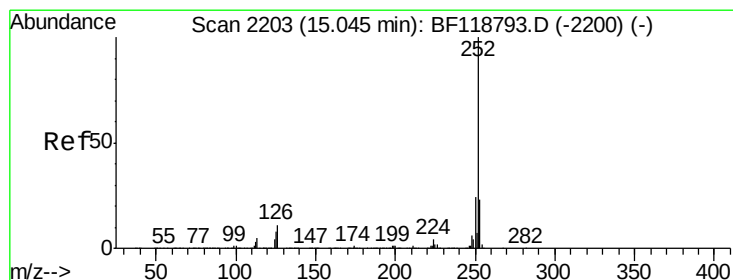
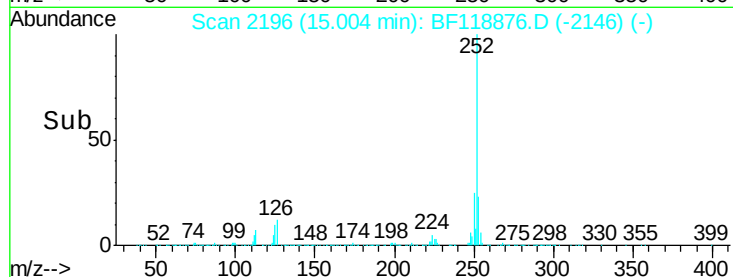
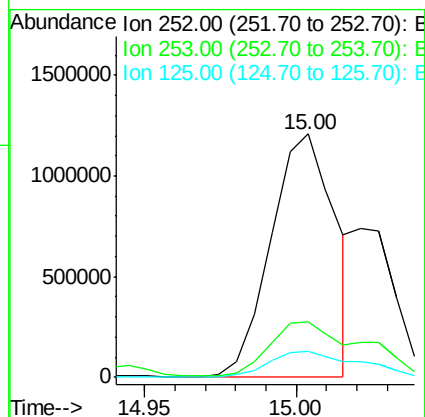
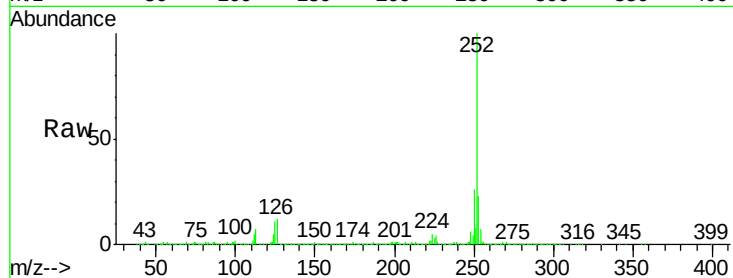
#88
Benzo(b)fluoranthene
Concen: 33.548 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Instrument :
BNA_F
ClientSampleId :
PE-6-(SIDE-WALL)-NORTH

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.4	27.6
125	10.5	8.1	12.1

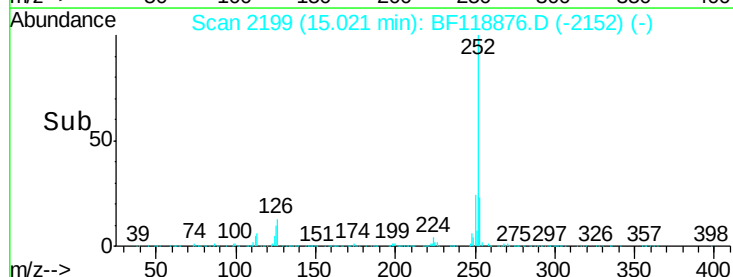
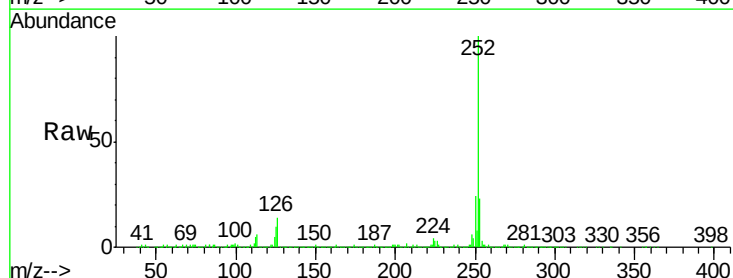
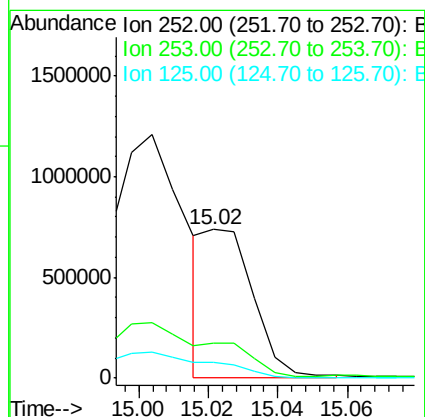
Manual Integrations
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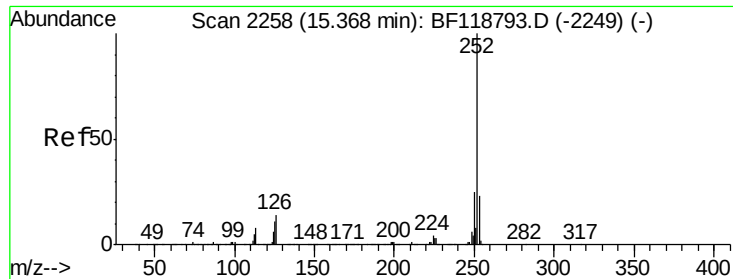
mohammad
2/13/2020 10:28:48 AM



#89
Benzo(k)fluoranthene
Concen: 15.246 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.4
125	10.4	7.0	10.6





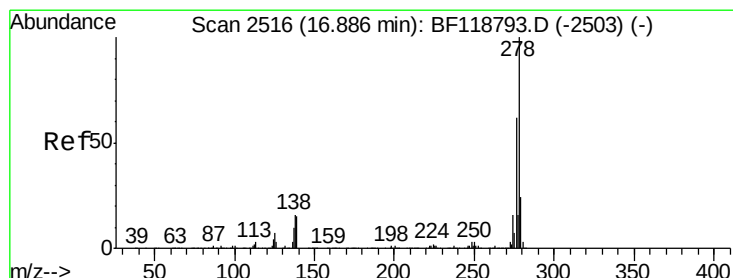
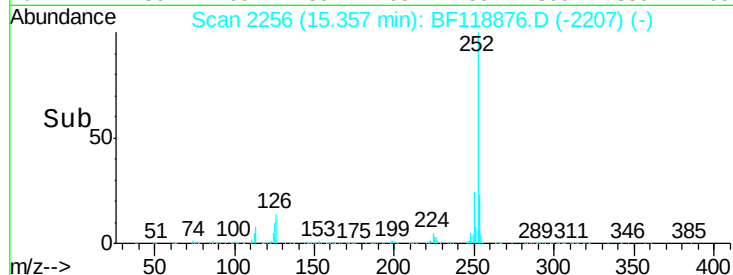
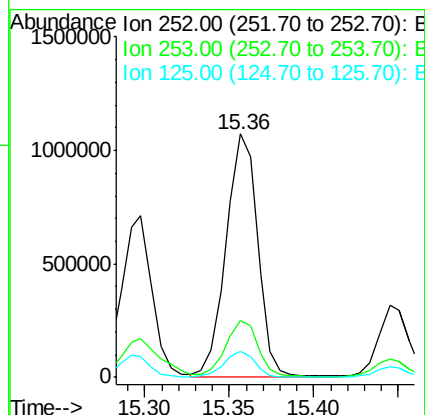
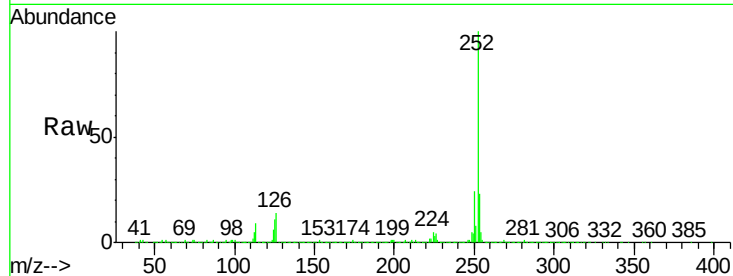
#90
Benzo(a)pyrene
Concen: 30.187 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Instrument :
BNA_F
ClientSampleId :
PE-6-(SIDE-WALL)-NORTH

Tot Ion:252 Resp: 1387039
Ion Ratio Lower Upper
252 100
253 23.4 18.1 27.1
125 10.7 8.7 13.1

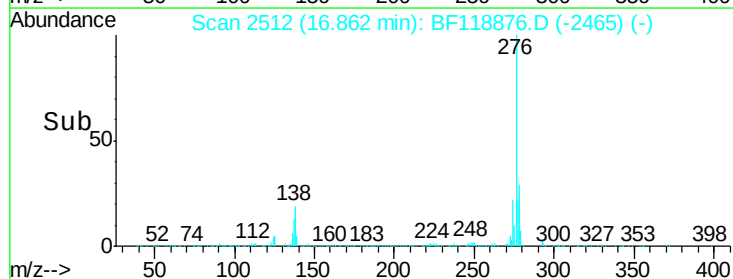
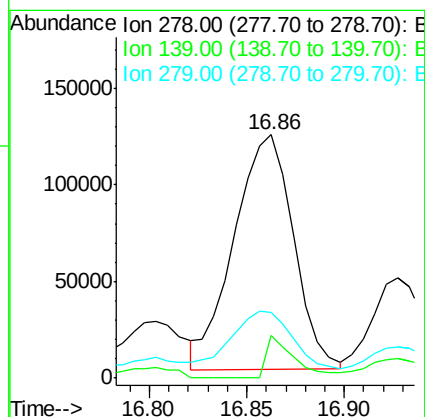
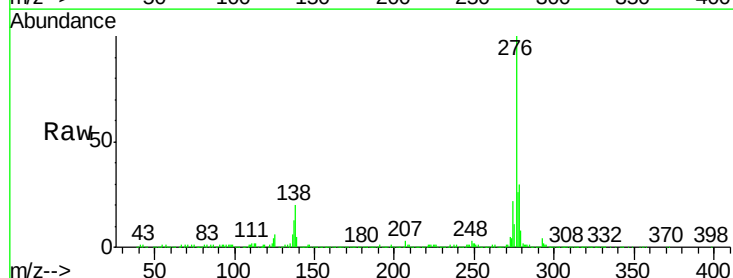
Manual Integrations
APPROVED

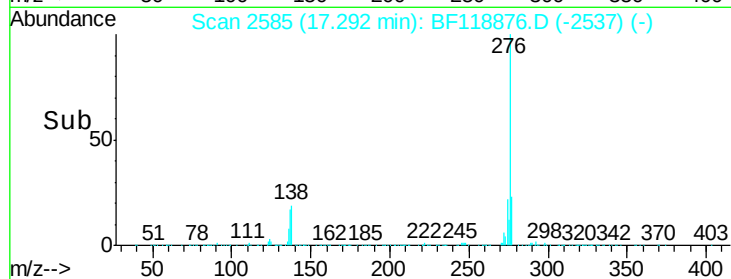
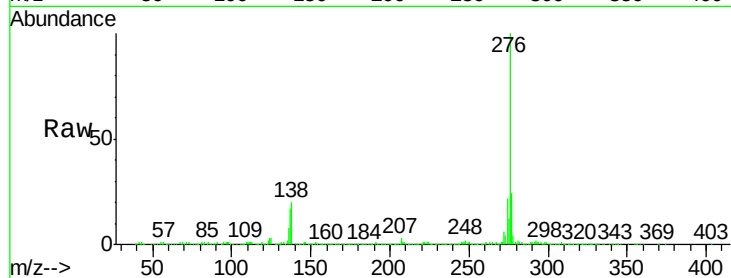
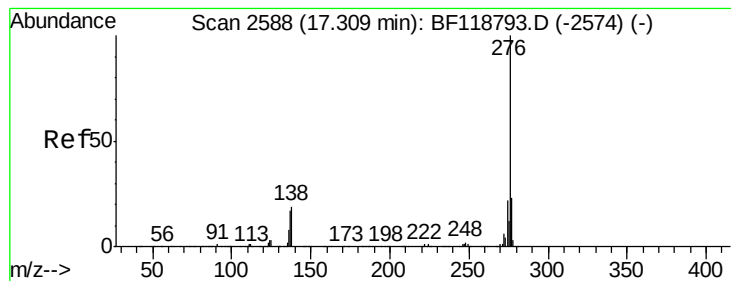
mohammad
2/13/2020 10:28:48 AM



#91
Dibenzo(a,h)anthracene
Concen: 6.259 ng
RT: 16.86 min Scan# 2512
Delta R.T. -0.02 min
Lab File: BF118876.D
Acq: 10 Feb 2020 18:44

Tgt Ion:278 Resp: 255318
Ion Ratio Lower Upper
278 100
139 17.4 12.3 18.5
279 27.1 19.1 28.7





#92

Benzo(a,h,i)perylene

Concen: 21.903 ng

RT: 17.29 min Scan# 2585

Delta R.T. -0.02 min

Lab File: BF118876.D

Acq: 10 Feb 2020 18:44

Instrument :

BNA_F

ClientSampleId :

PE-6-(SIDE-WALL)-NORTH

Tot Ion:	276	Resp:	859213
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.7	28.1
138	20.2	15.4	23.2

Manual Integrations
APPROVED

mohammad
2/13/2020 10:28:48 AM

