

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
 Data File : BF119752.D
 Acq On : 4 Apr 2020 8:29
 Operator : MA/SJ
 Sample : L2129-11
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-7

Manual Integrations
 APPROVED

mohammad
 4/6/2020 1:39:26 PM

Quant Time: Apr 06 09:03:28 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 01 11:59:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	190052	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	677357	20.00	ng	-0.02
39) Acenaphthene-d10	9.85	164	320861	20.00	ng	-0.02
64) Phenanthrene-d10	11.34	188	514934	20.00	ng	-0.01
76) Chrysene-d12	13.99	240	314121	20.00	ng	0.00
87) Perylene-d12	15.44	264	335932	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	1802208	150.96	ng	0.01
7) Phenol-d6	6.44	99	2306720	151.25	ng	0.00
23) Nitrobenzene-d5	7.37	82	1444675	115.91	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	484874	146.48	ng	-0.01
45) 2-Fluorobiphenyl	9.17	172	2308933	106.61	ng	-0.01
79) Terphenyl-d14	12.93	244	1813717	113.12	ng	-0.01

Target Compounds					Qvalue	
31) Naphthalene	8.11	128	280212	8.039	ng	97
37) 2-Methylnaphthalene	8.80	142	218952	9.571	ng	98
38) 1-Methylnaphthalene	8.90	142	215276	9.942	ng	98
46) 1,1'-Biphenyl	9.26	154	85231	3.261	ng	94
49) Acenaphthylene	9.70	152	337056	10.485	ng	98
50) Dimethylphthalate	9.56	163	317960	13.951	ng	99
52) Acenaphthene	9.88	154	497521	24.827	ng	98
55) Dibenzofuran	10.05	168	652110	22.696	ng	97
58) Fluorene	10.39	166	560977	26.403	ng	99
71) Phenanthrene	11.37	178	5695216	213.298	ng	96
72) Anthracene	11.42	178	1361978	50.189	ng	99
73) Carbazole	11.57	167	829749	30.891	ng	98
75) Fluoranthene	12.57	202	5402464	186.959	ng	96
78) Pyrene	12.80	202	4582071	177.740	ng	97
81) Benzo(a)anthracene	13.98	228	2847166	139.384	ng	95
83) Chrysene	14.02	228	2486216	117.935	ng	96
86) Indeno(1,2,3-cd)pyrene	16.90	276	903976	45.530	ng	97
88) Benzo(b)fluoranthene	15.03	252	2669377m	118.955	ng	
89) Benzo(k)fluoranthene	15.06	252	1098832m	51.425	ng	
90) Benzo(a)pyrene	15.39	252	1861329	91.271	ng	97
91) Dibenzo(a,h)anthracene	16.90	278	334254m	18.739	ng	
92) Benzo(g,h,i)perylene	17.33	276	745688	41.612	ng	98

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

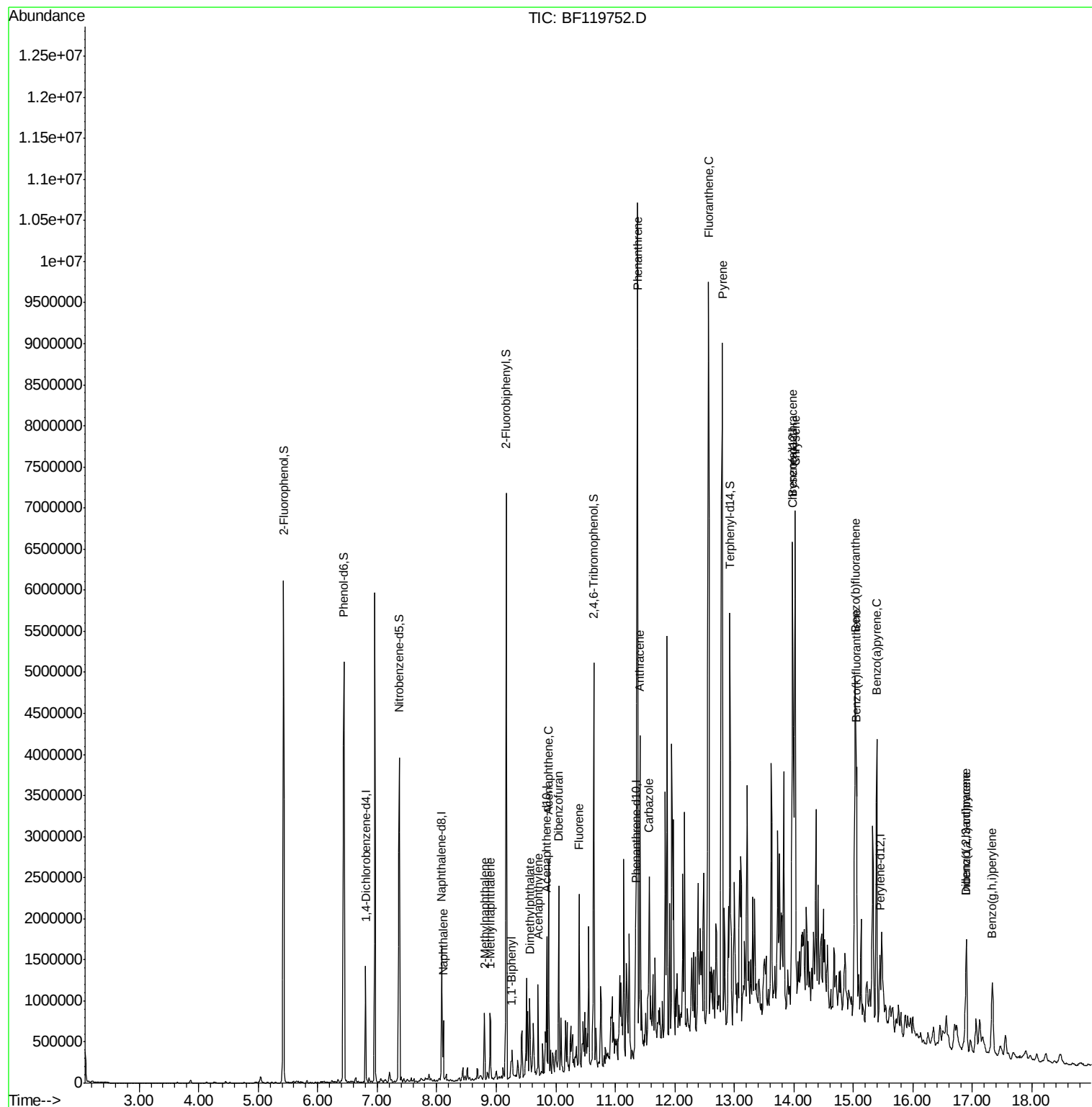
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
Data File : BF119752.D
Acq On : 4 Apr 2020 8:29
Operator : MA/SJ
Sample : L2129-11
Misc :
ALS Vial : 41 Sample Multiplier: 1

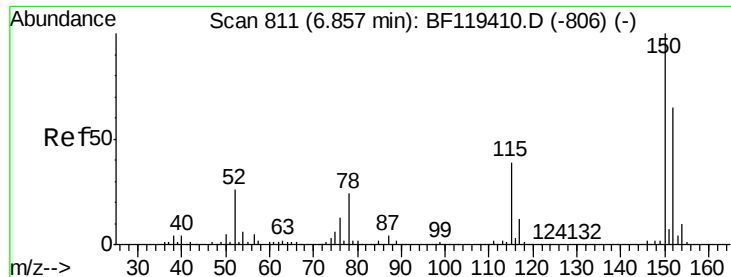
Instrument :
BNA_F
ClientSampled :
TP-7

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 01 11:59:45 2020
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#1

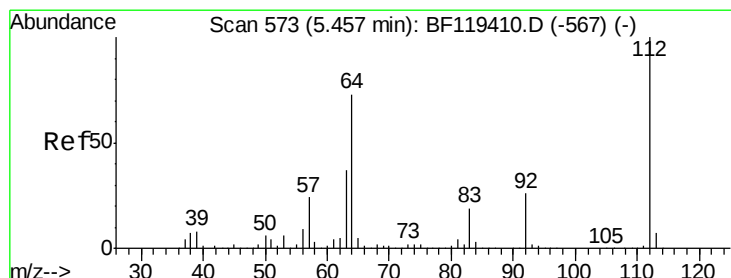
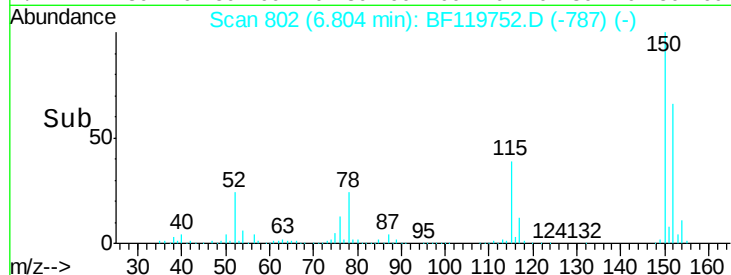
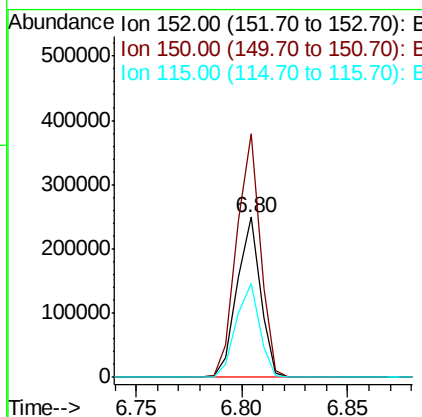
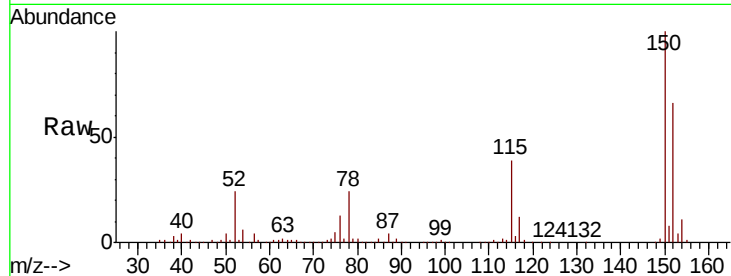
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.5	186.7
115	58.8	49.6	74.4

Manual Integrations
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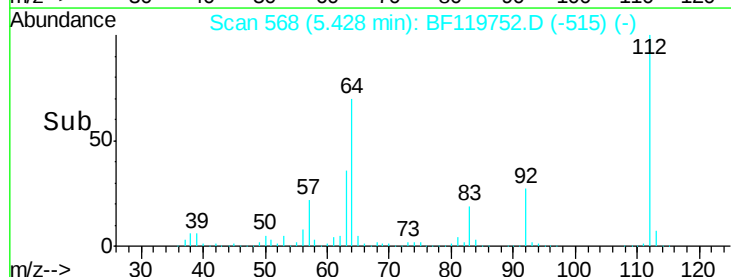
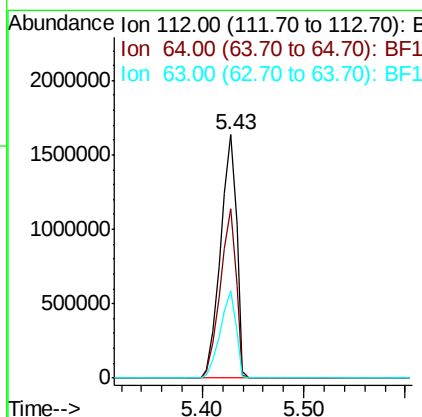
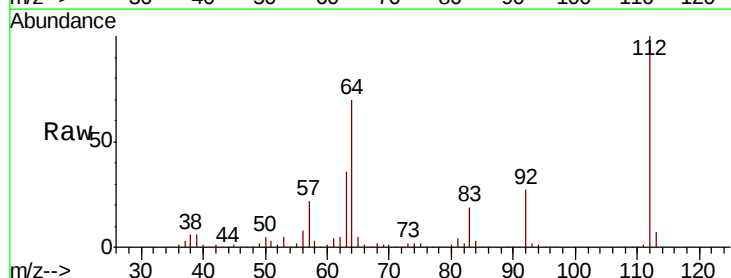
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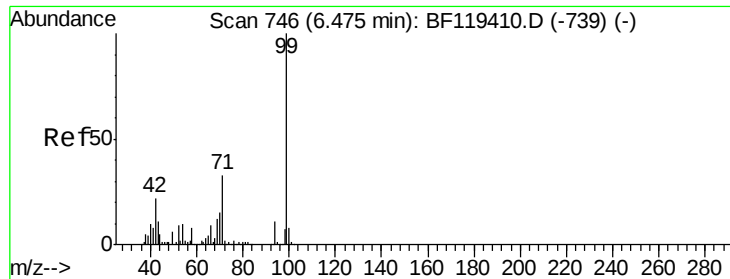


#5

2-Fluorophenol
Concen: 150.956 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.6	56.7	85.1
63	35.8	29.5	44.3





#7

Phenol-d6

Concen: 151.252 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Instrument :

BNA_F

ClientSampleId :

TP-7

Tot Ion: 99 Resp: 2306720

Ion Ratio Lower Upper

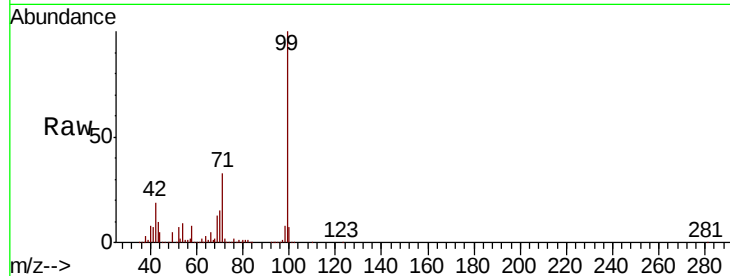
99 100

42 19.4 16.6 24.8

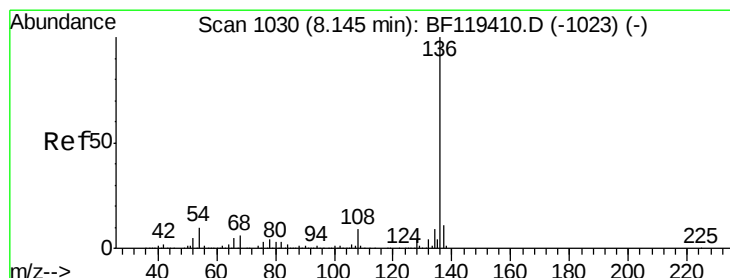
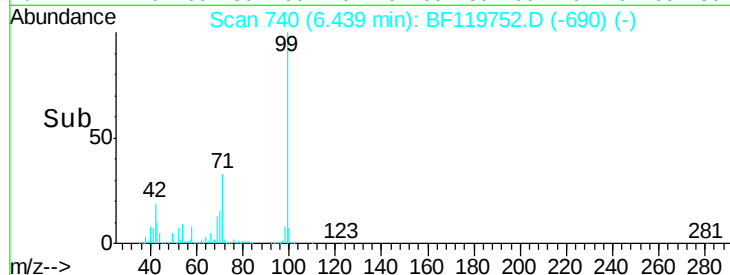
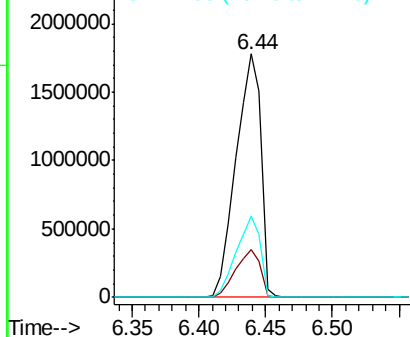
71 33.1 26.4 39.6

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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# 1020

Delta R.T. -0.02 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Tgt Ion: 136 Resp: 677357

Ion Ratio Lower Upper

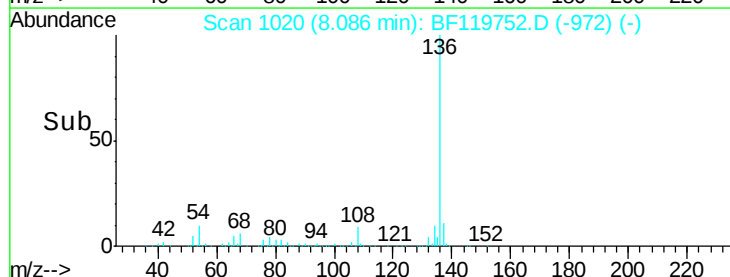
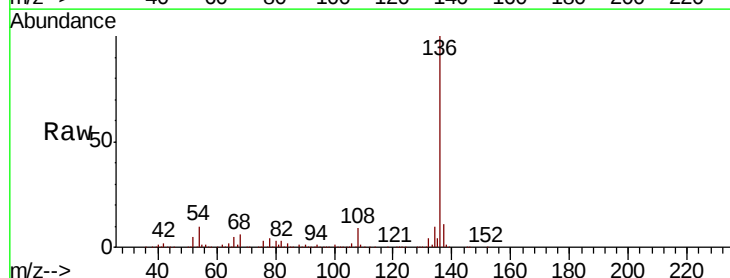
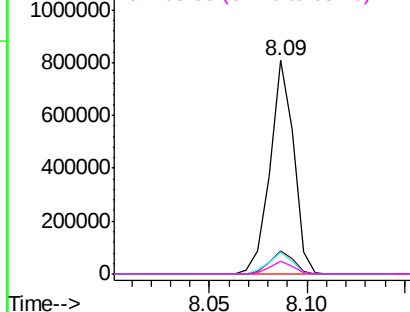
136 100

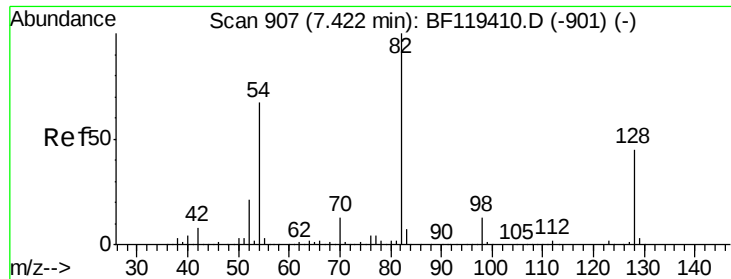
137 11.0 8.7 13.1

54 10.2 9.1 13.7

68 5.9 4.6 6.8

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





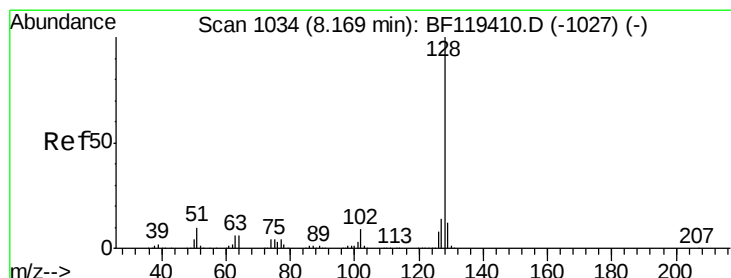
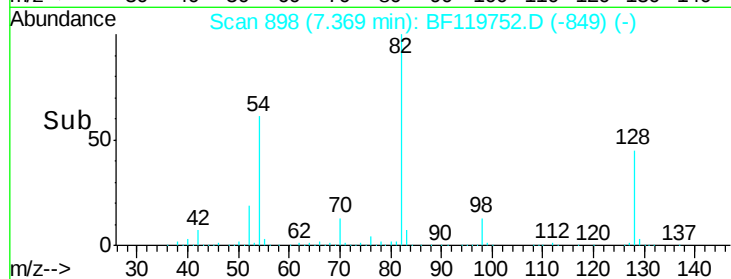
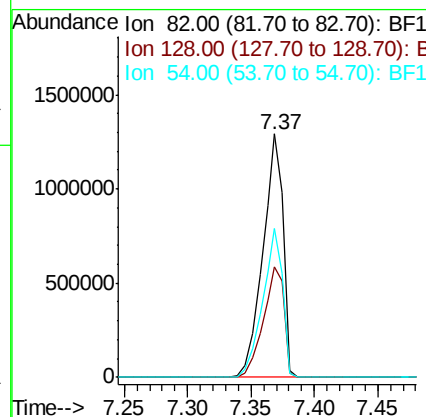
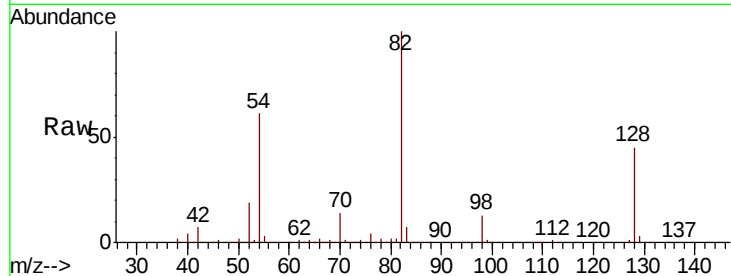
#23
Nitrobenzene-d5
Concen: 115.914 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	82	Resp	1444675
Ion Ratio	100	Lower	Upper
82	100		
128	45.3	36.3	54.5
54	61.0	50.6	75.8

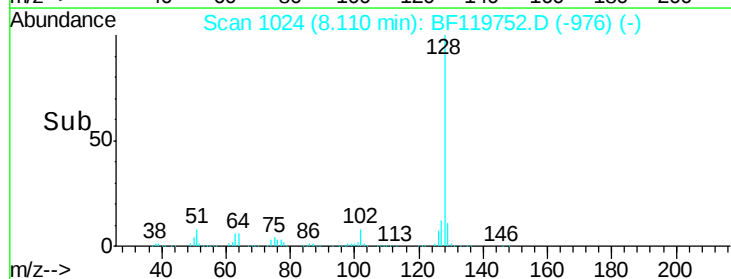
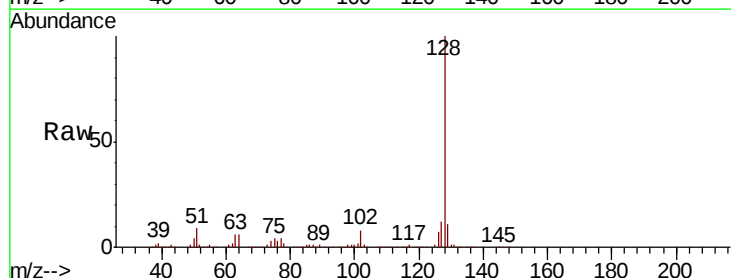
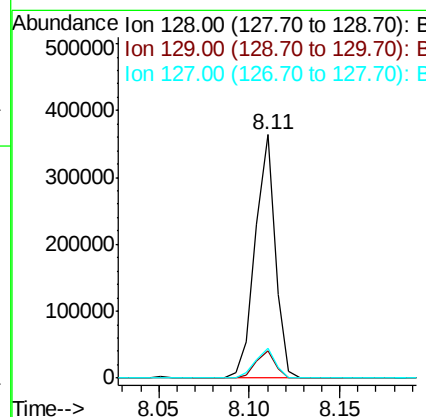
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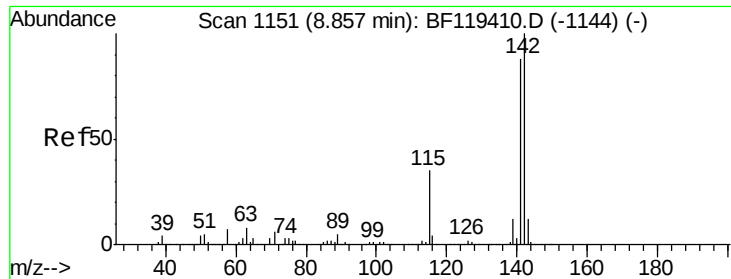
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#31
Naphthalene
Concen: 8.039 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	128	Resp	280212
Ion Ratio	100	Lower	Upper
128	100		
129	11.3	9.5	14.3
127	12.5	11.3	16.9





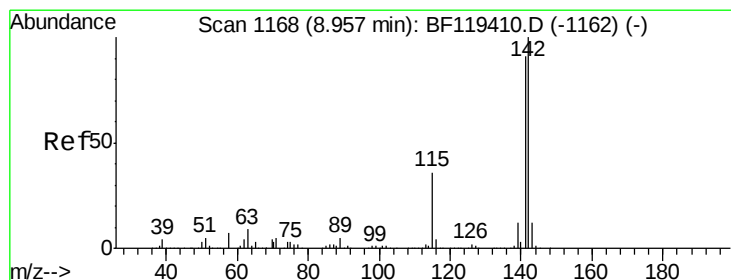
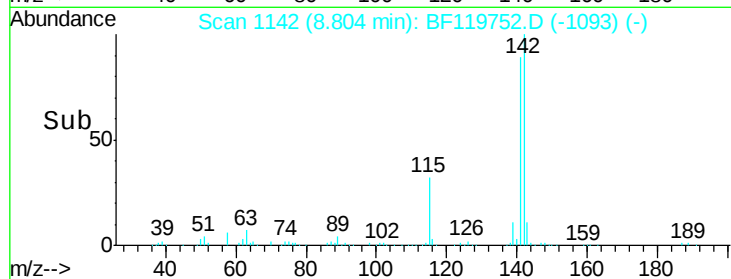
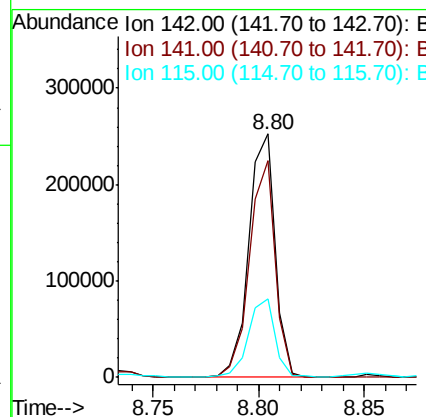
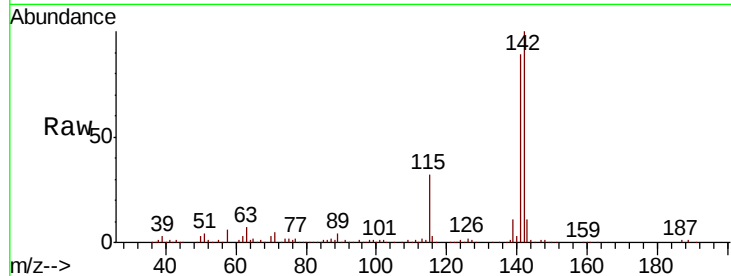
#37
2-Methylnaphthalene
Concen: 9.571 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampleId :
TP-7

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.7	107.5
115	32.2	27.9	41.9

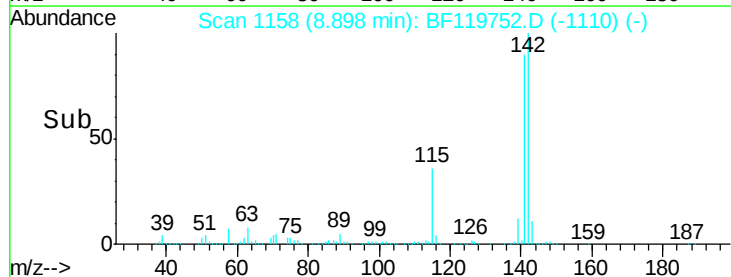
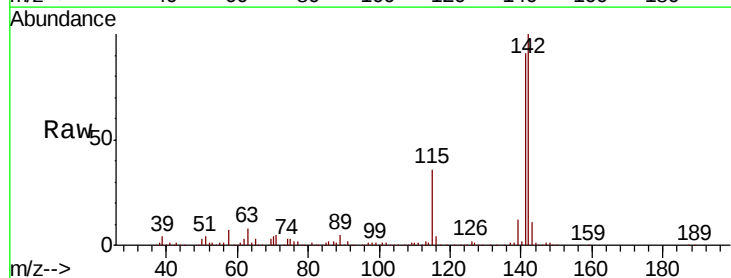
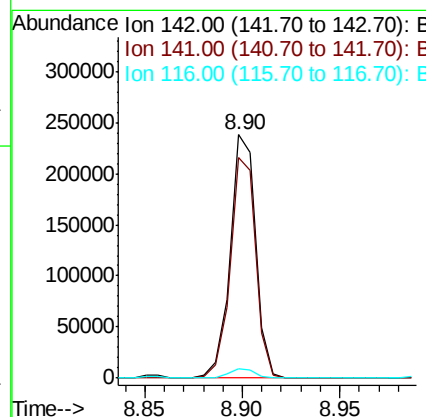
Manual Integrations
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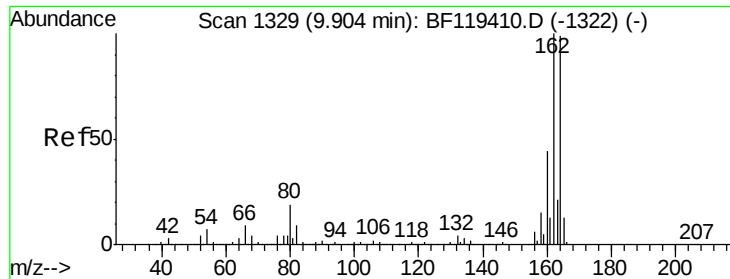
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#38
1-Methylnaphthalene
Concen: 9.942 ng
RT: 8.90 min Scan# 1158
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.5	73.7	110.5
116	3.8	3.0	4.6





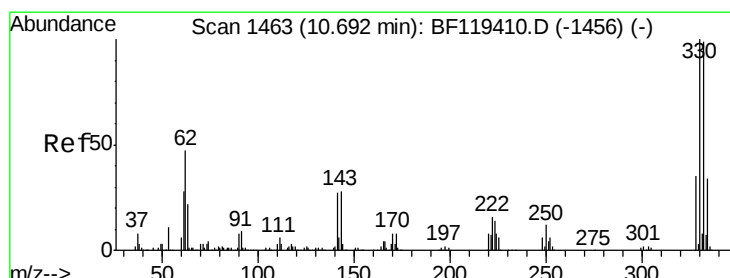
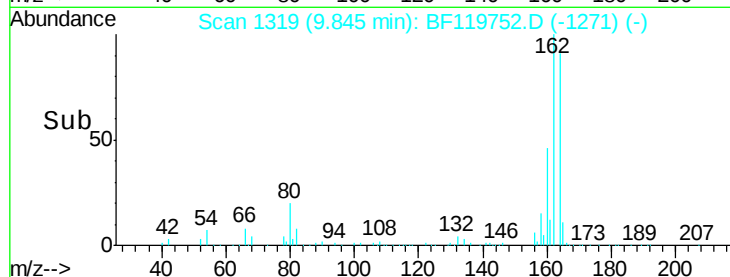
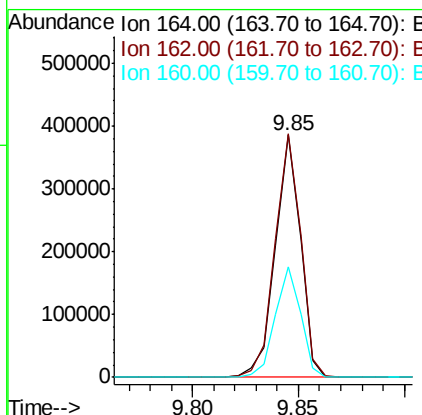
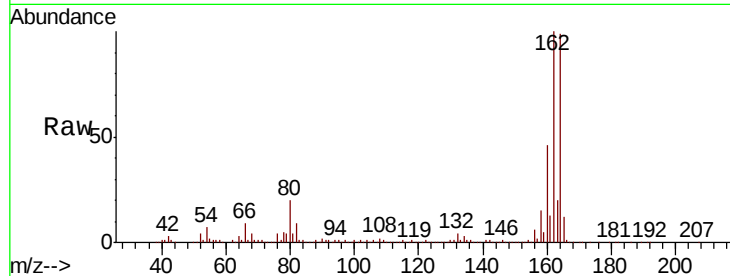
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.7	80.6	121.0	
160	45.8	35.7	53.5	

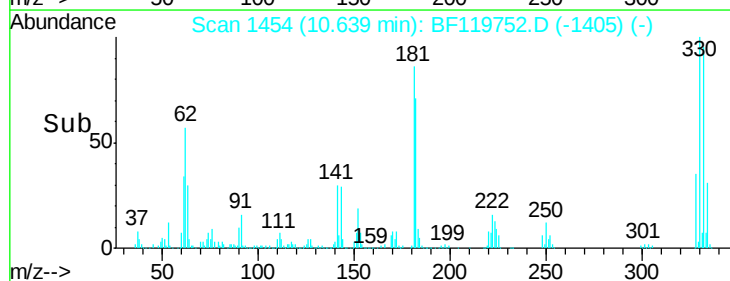
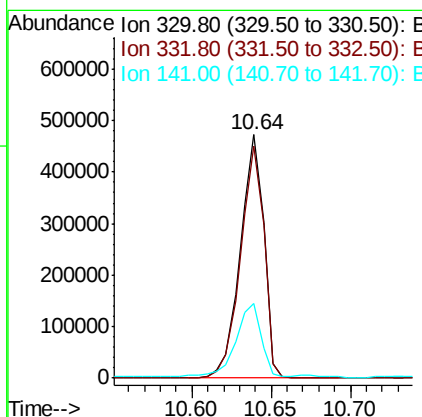
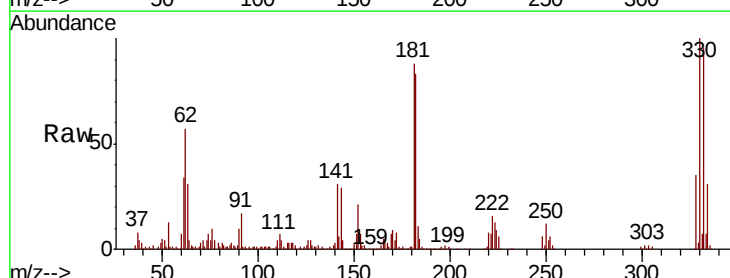
Manual Integrations
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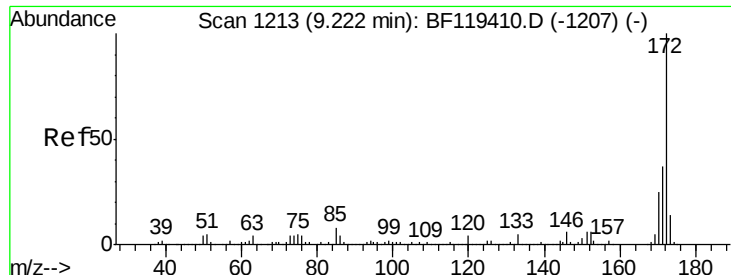
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#42
2,4,6-Tribromophenol
Concen: 146.478 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.1	75.7	113.5	
141	32.4	25.4	38.0	





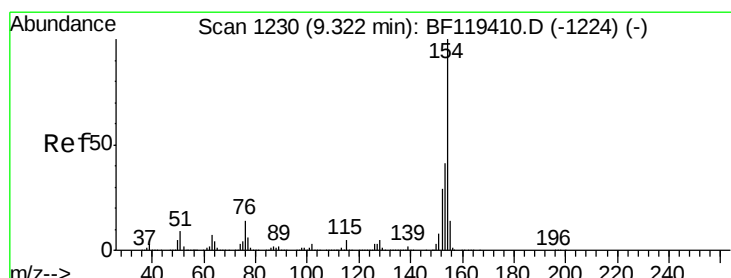
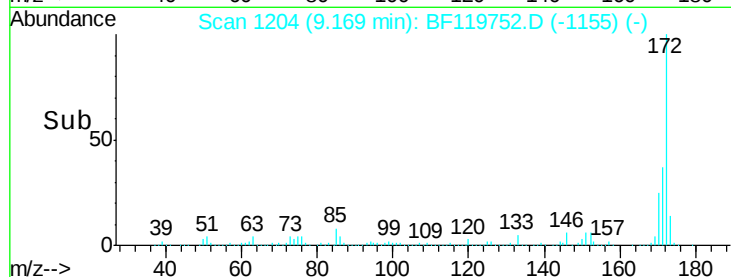
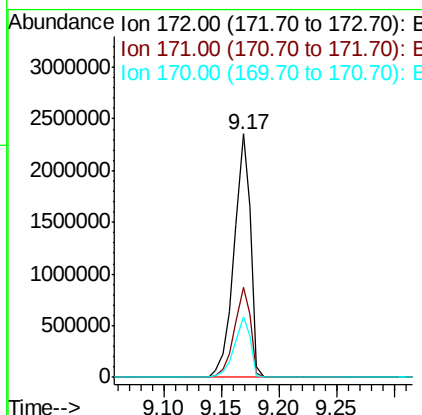
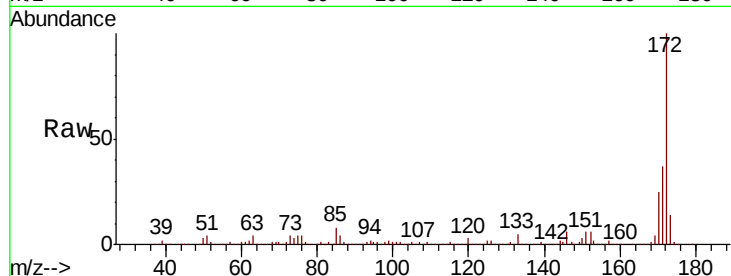
#45
2-Fluorobiphenyl
Concen: 106.608 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ion	Ratio	Lower	Upper
172	100			
171	37.0	29.6	44.4	
170	24.9	20.2	30.2	

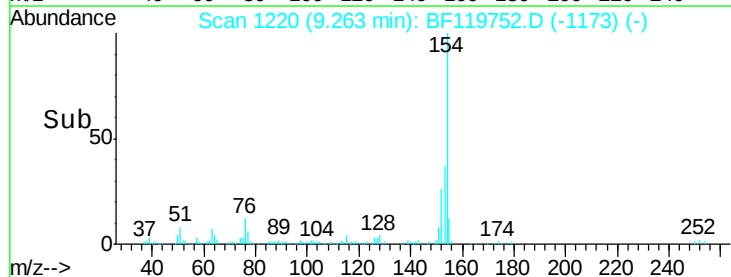
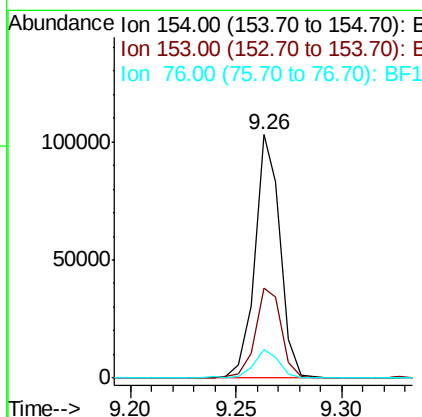
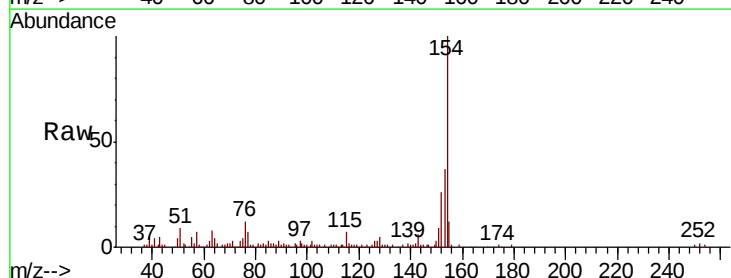
Manual Integrations
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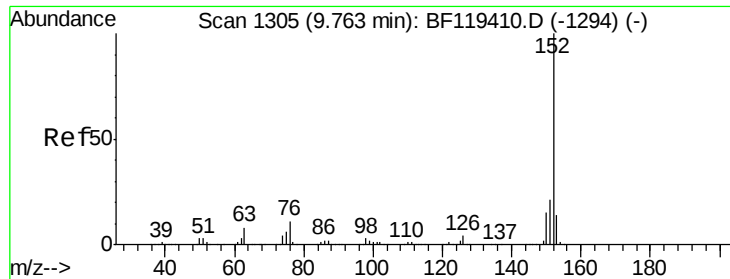
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#46
1,1'-Biphenyl
Concen: 3.261 ng
RT: 9.26 min Scan# 1220
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ion	Ratio	Lower	Upper
154	100			
153	37.1	21.4	61.4	
76	11.7	0.0	33.0	





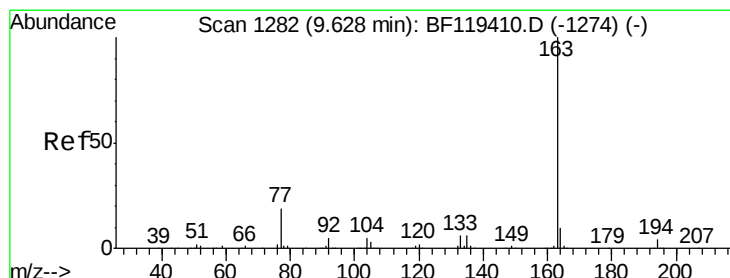
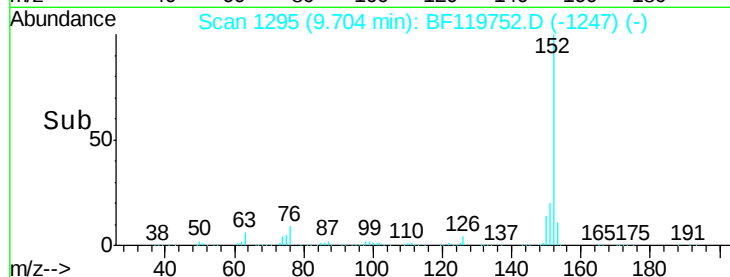
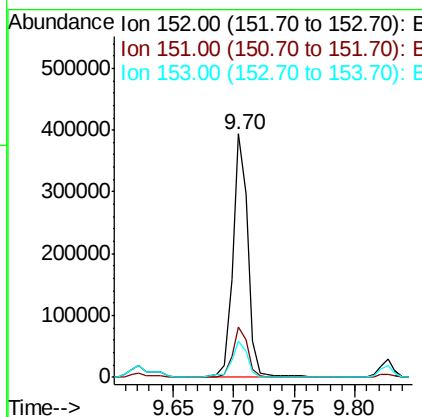
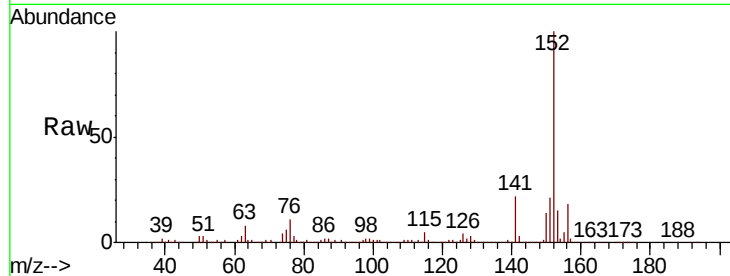
#49
Acenaphthylene
Concen: 10.485 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.2	25.8
153	15.0	11.2	16.8

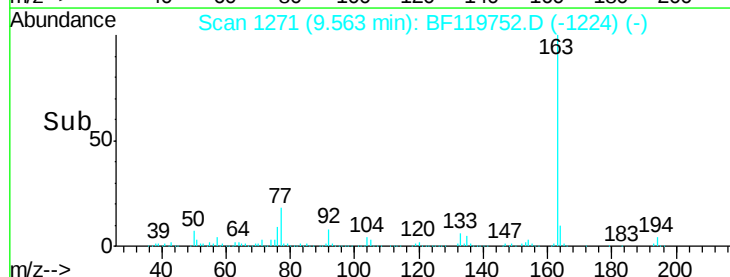
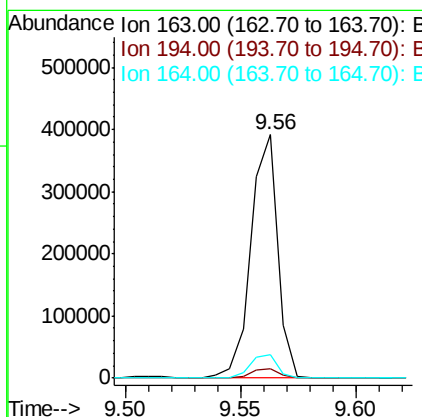
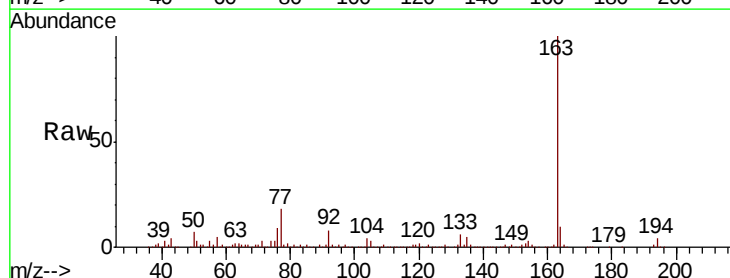
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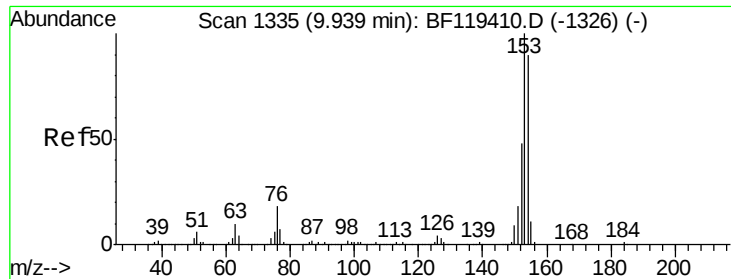
mohammad
4/6/2020 1:39:26 PM



#50
Dimethylphthalate
Concen: 13.951 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	9.7	8.2	12.2





#52

Acenaphthene

Concen: 24.827 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Instrument :

BNA_F

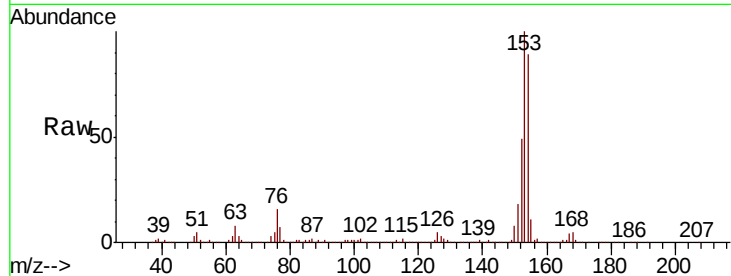
ClientSampleId :

TP-7

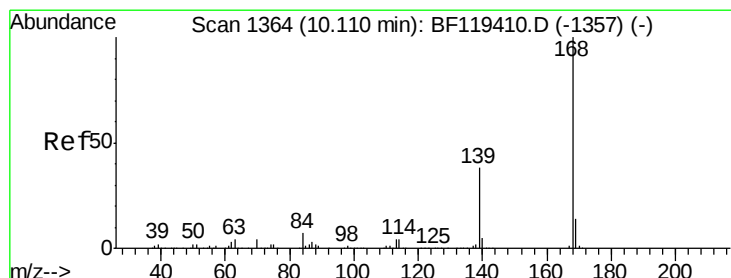
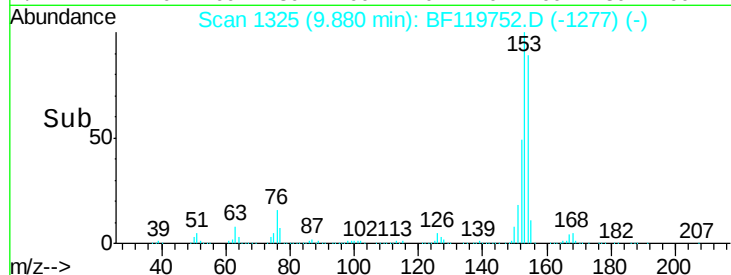
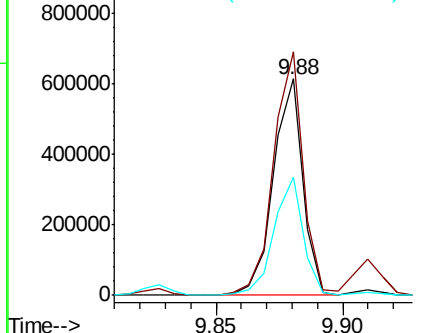
Tot Ion:	154	Resp:	497521
Ion Ratio	Lower	Upper	
154	100		
153	112.5	88.1	132.1
152	54.7	43.0	64.4

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



#55

Dibenzofuran

Concen: 22.696 ng

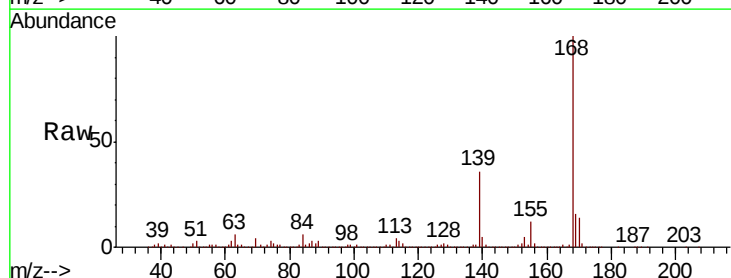
RT: 10.05 min Scan# 1354

Delta R.T. -0.02 min

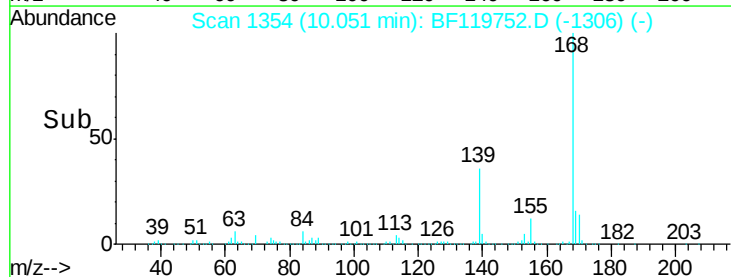
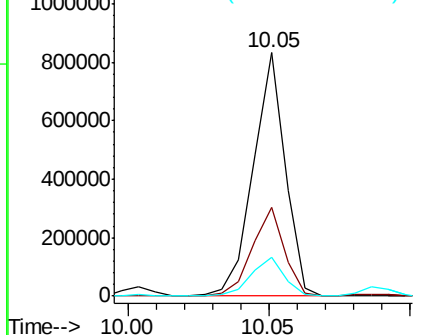
Lab File: BF119752.D

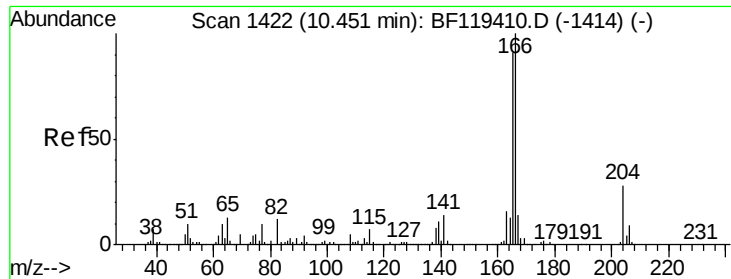
Acq: 4 Apr 2020 8:29

Tgt Ion:	168	Resp:	652110
Ion Ratio	Lower	Upper	
168	100		
139	36.3	30.1	45.1
169	16.0	11.0	16.6



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





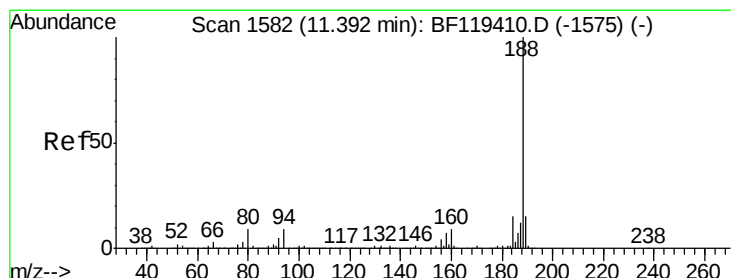
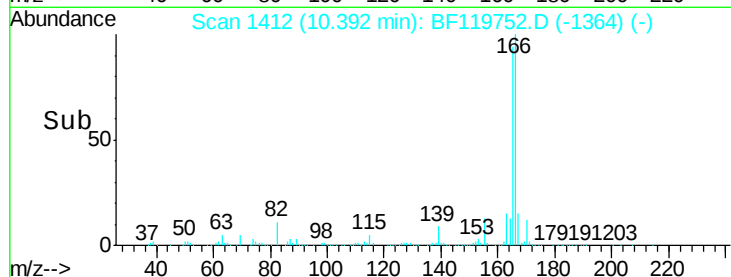
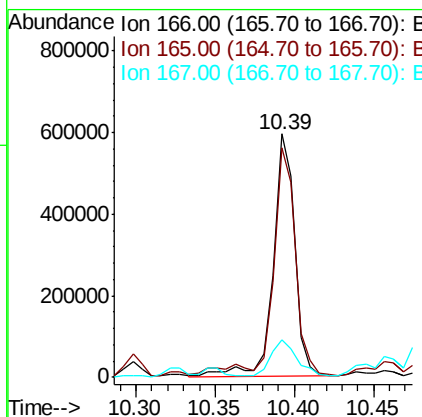
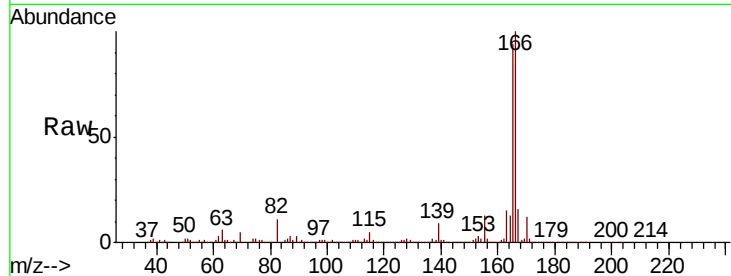
#58
 Fluorene
 Concen: 26.403 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.02 min
 Lab File: BF119752.D
 Acq: 4 Apr 2020 8:29

Instrument :
 BNA_F
 ClientSampleId :
 TP-7

Tot Ion	Ratio	Lower	Upper
166	100		
165	94.1	75.4	113.2
167	15.6	11.2	16.8

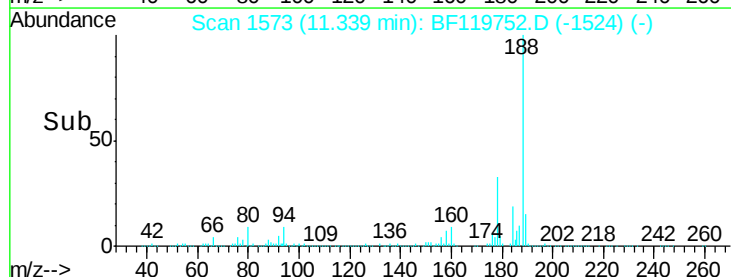
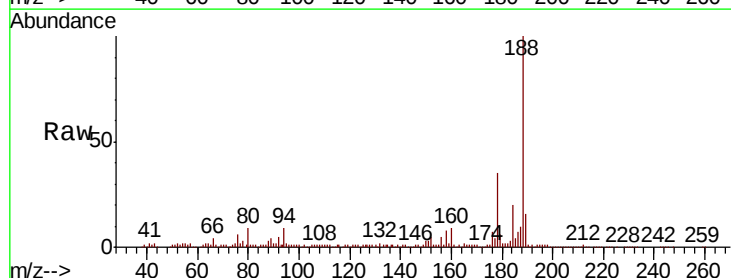
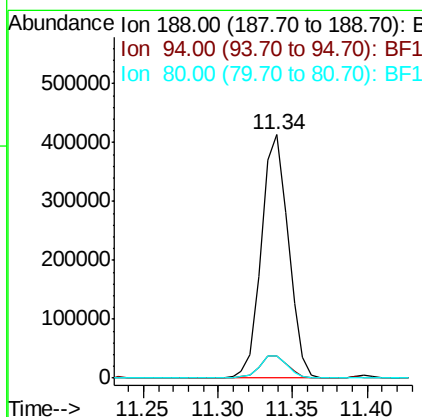
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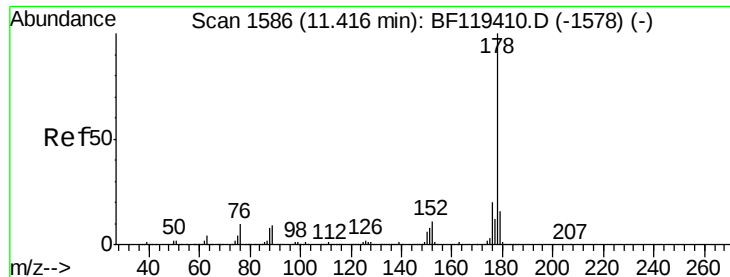
mohammad
 4/6/2020 1:39:26 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: BF119752.D
 Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.5	11.3
80	9.0	9.0	13.4





#71

Phenanthrene

Concen: 213.298 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.00 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Instrument :

BNA_F

ClientSampled :

TP-7

Tot Ion:178 Resp: 5695216

Ion Ratio Lower Upper

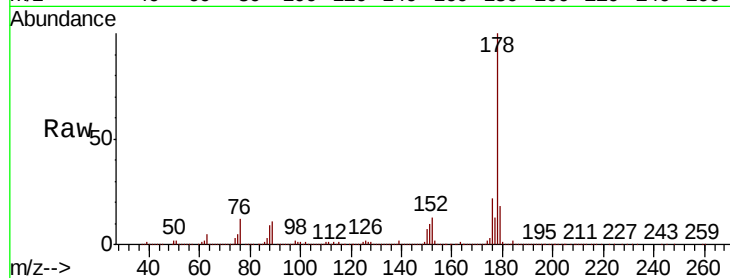
178 100

176 22.3 16.2 24.4

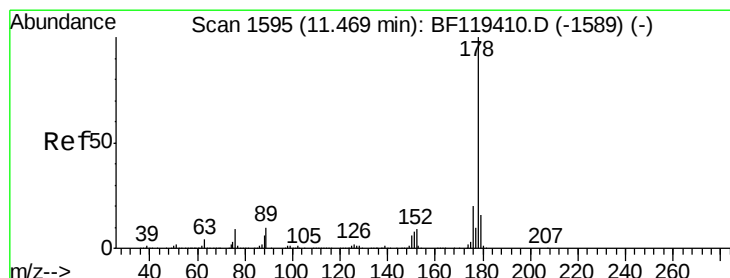
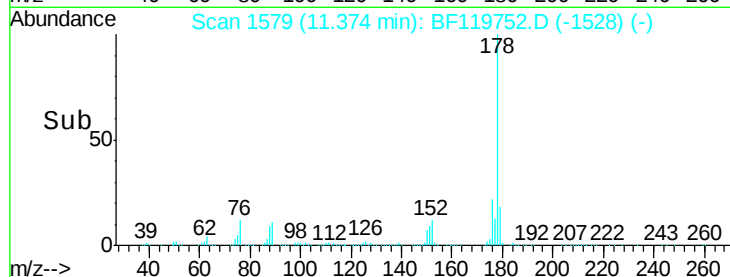
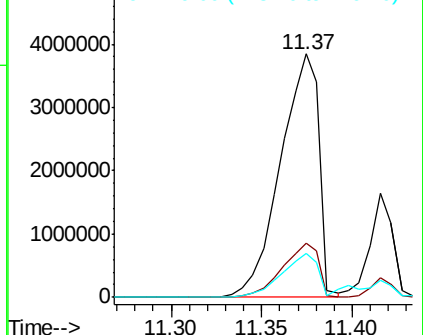
179 18.0 13.2 19.8

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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: 50.189 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Tgt Ion:178 Resp: 1361978

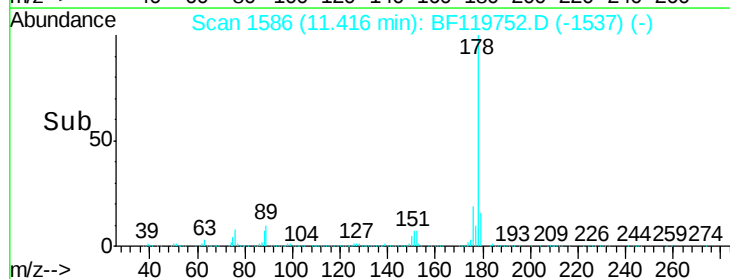
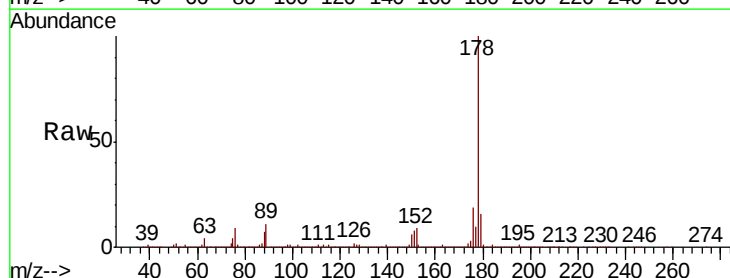
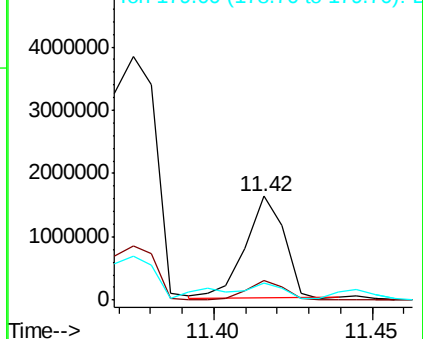
Ion Ratio Lower Upper

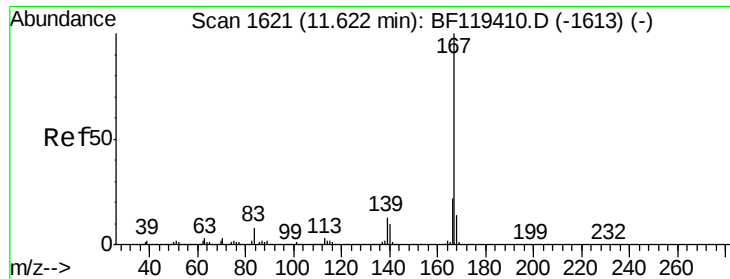
178 100

176 19.0 16.1 24.1

179 16.2 13.0 19.4

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





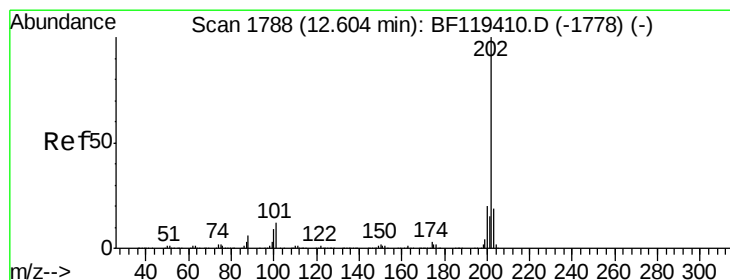
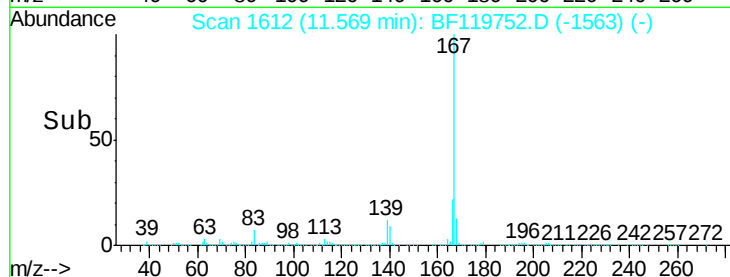
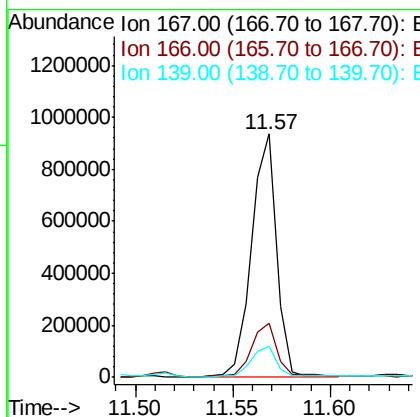
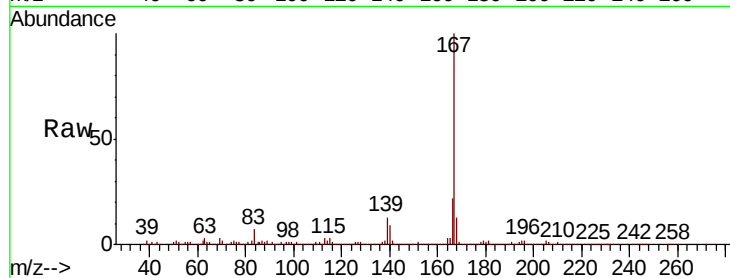
#73
 Carbazole
 Concen: 30.891 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF119752.D
 Acq: 4 Apr 2020 8:29

Instrument :
 BNA_F
 ClientSampleId :
 TP-7

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.2	18.2	27.4
139	12.6	10.7	16.1

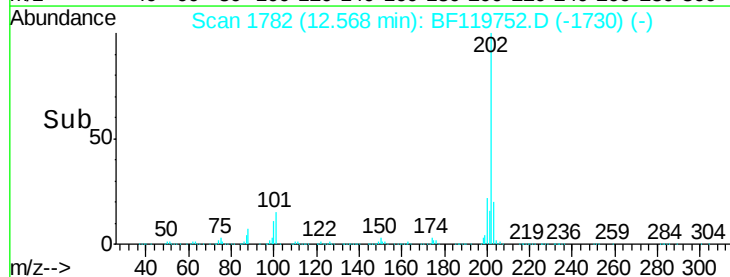
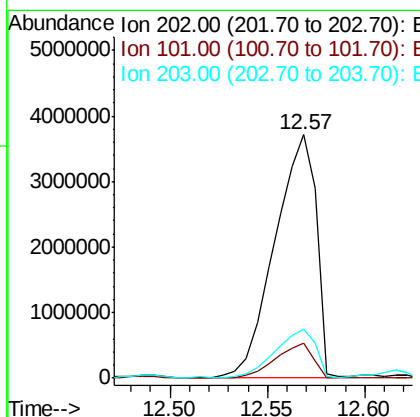
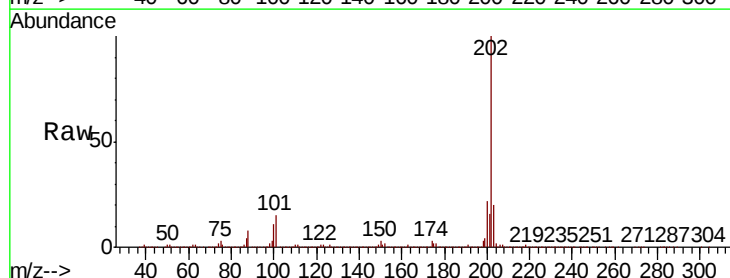
Manual Integrations
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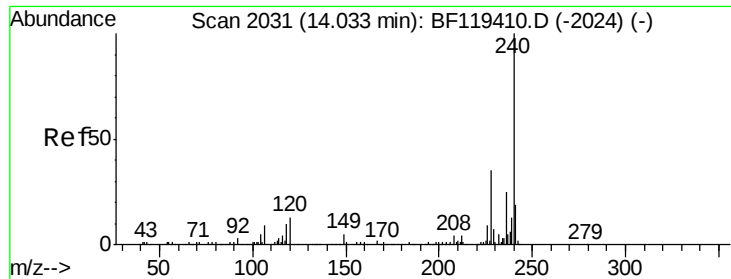
mohammad
 4/6/2020 1:39:26 PM



#75
 Fluoranthene
 Concen: 186.959 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. 0.01 min
 Lab File: BF119752.D
 Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	32.2
203	19.9	0.0	38.8





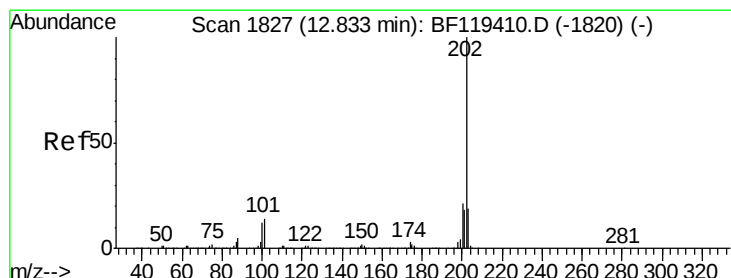
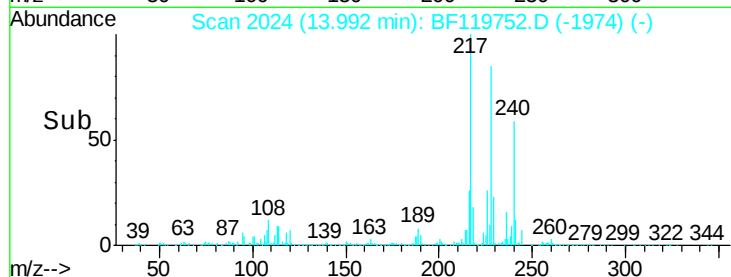
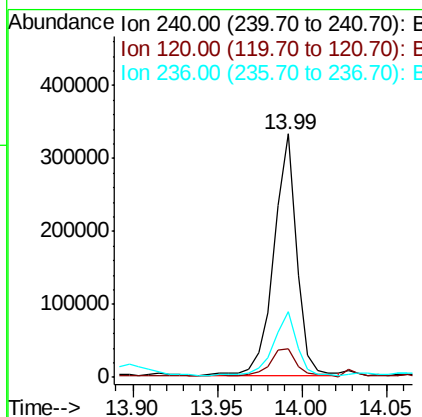
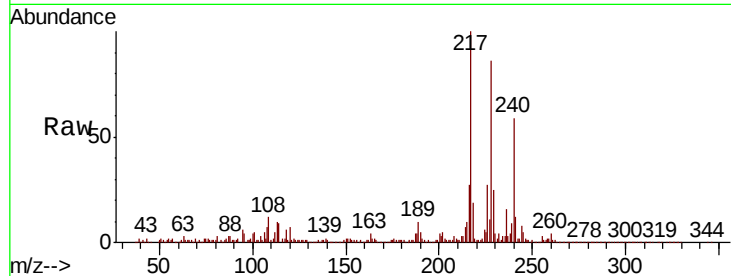
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampleId :
TP-7

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.5	10.6	15.8
236	27.2	20.2	30.2

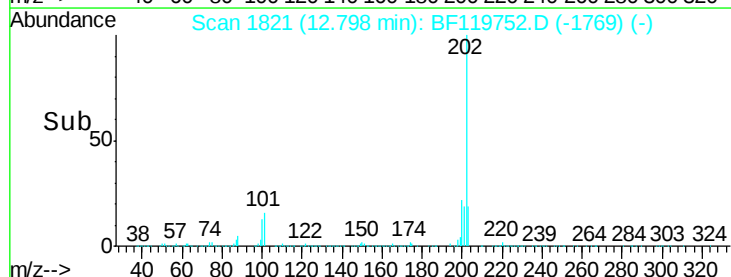
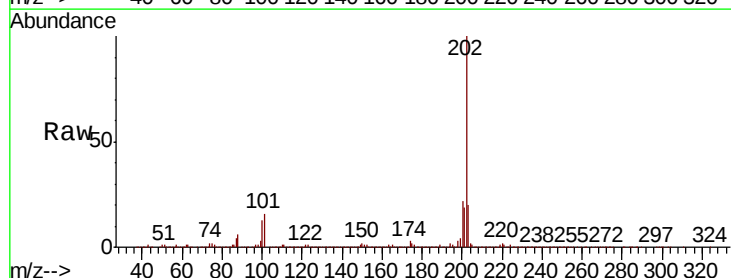
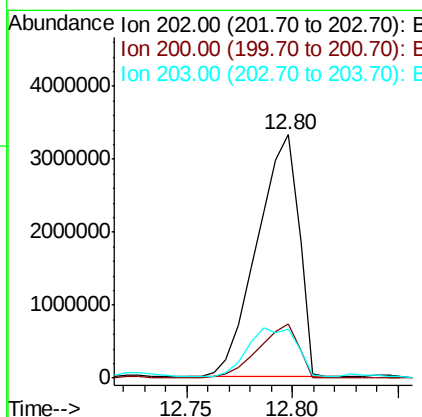
Manual Integrations
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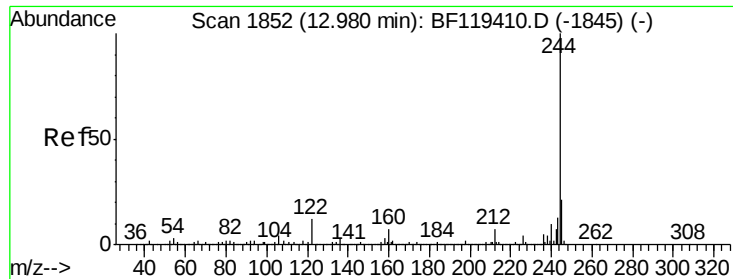
mohammad
4/6/2020 1:39:26 PM



#78
Pyrene
Concen: 177.740 ng
RT: 12.80 min Scan# 1821
Delta R.T. 0.01 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	16.8	25.2
203	20.1	15.1	22.7





#79

Terphenyl-d14

Concen: 113.124 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Instrument :

BNA_F

ClientSampled :

TP-7

Tot Ion:244 Resp: 1813717

Ion Ratio Lower Upper

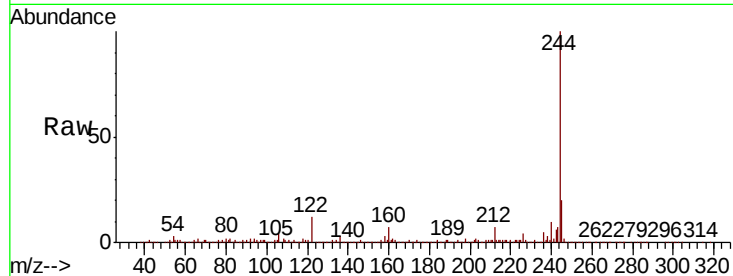
244 100

212 6.6 5.8 8.8

122 12.2 10.3 15.5

Manual Integrations
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mohammad
4/6/2020 1:39:26 PM

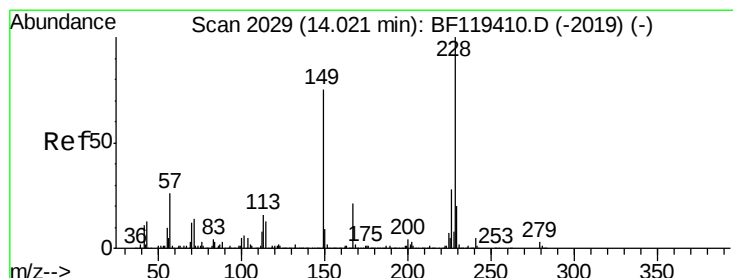
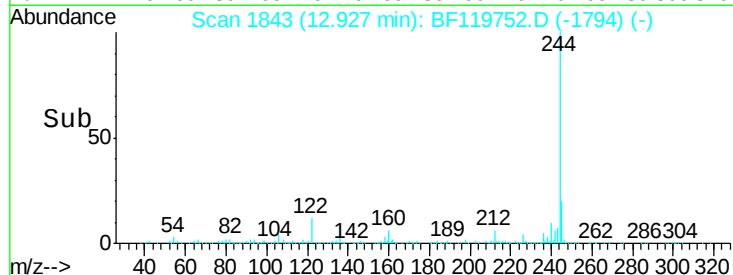


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

Time--> 12.80 12.90 13.00



#81

Benzo(a)anthracene

Concen: 139.384 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

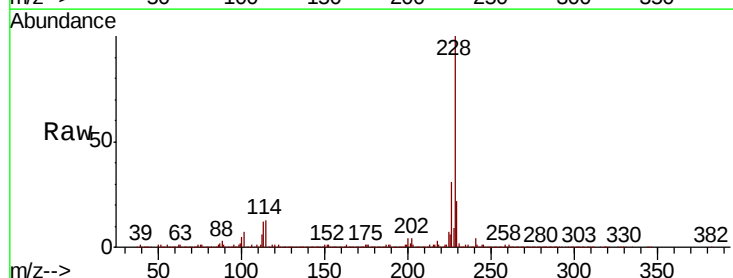
Tgt Ion:228 Resp: 2847166

Ion Ratio Lower Upper

228 100

226 30.7 21.8 32.8

229 21.7 16.2 24.4

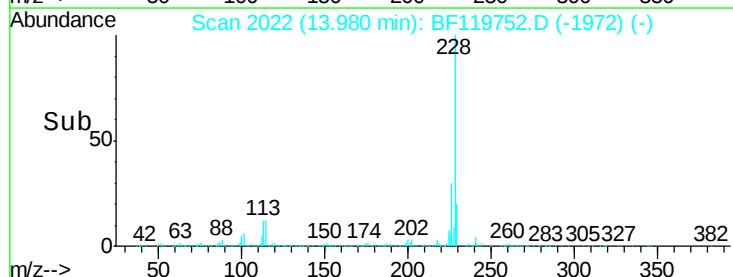


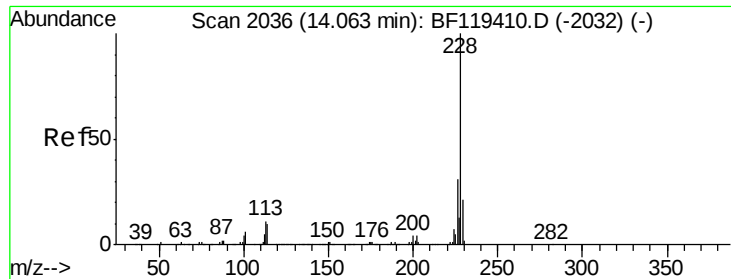
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time--> 13.95 14.00





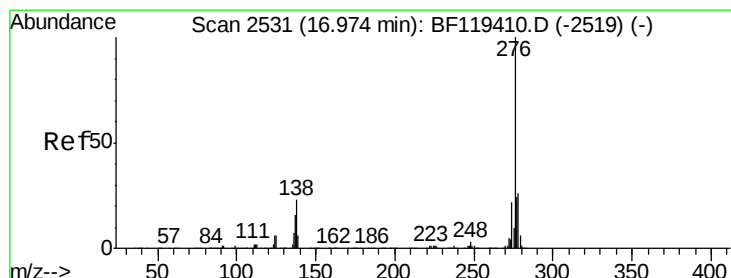
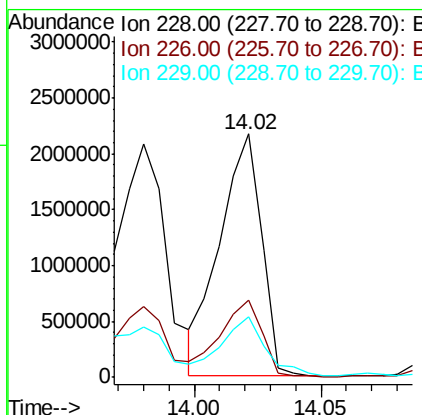
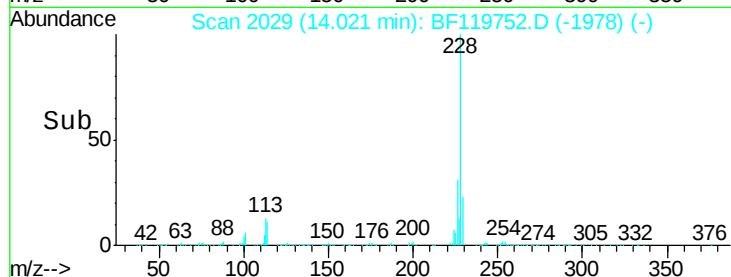
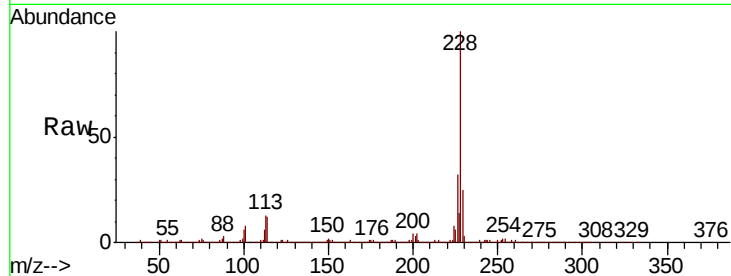
#83
Chrysene
Concen: 117.935 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.00 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.4	38.0
229	24.7	16.6	24.8

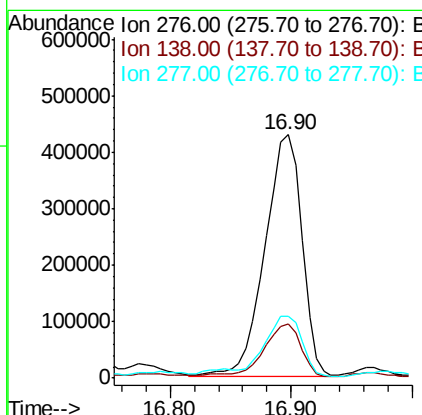
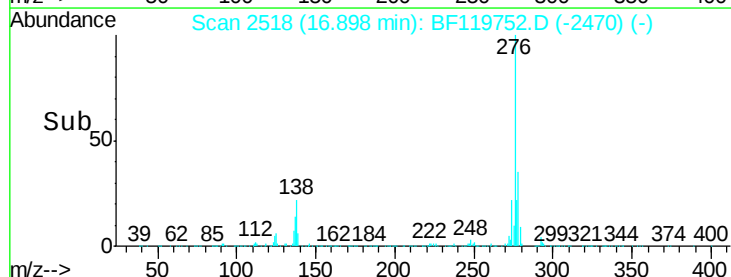
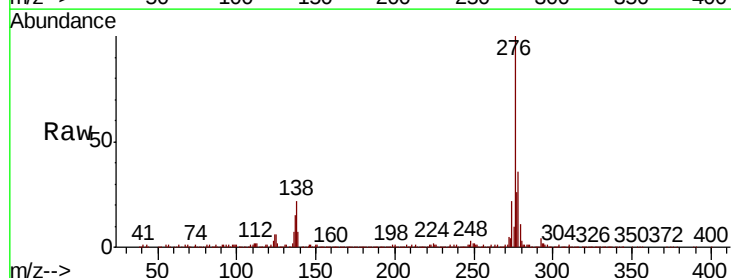
Manual Integrations
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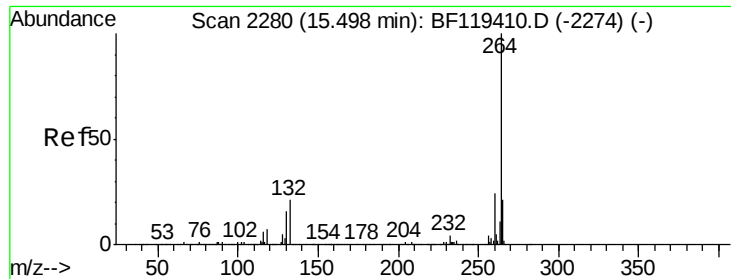
mohammad
4/6/2020 1:39:26 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 45.530 ng
RT: 16.90 min Scan# 2518
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.0	19.6	29.4
277	25.4	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2271

Delta R.T. -0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Instrument :

BNA_F

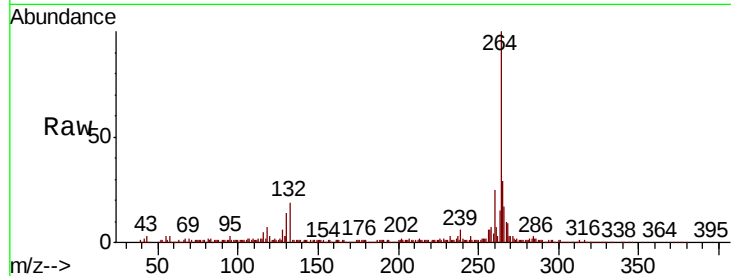
ClientSampleId :

TP-7

Tot Ion:	264	Resp:	335932
Ion Ratio	Lower	Upper	
264	100		
260	25.2	18.7	28.1
265	29.3	17.7	26.5#

Manual Integrations
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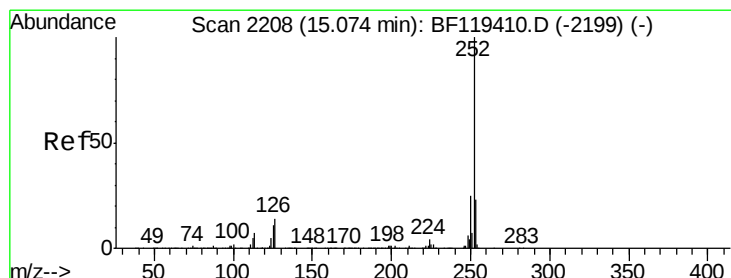
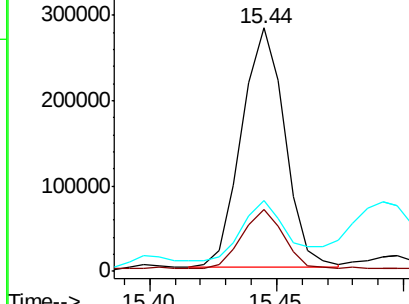
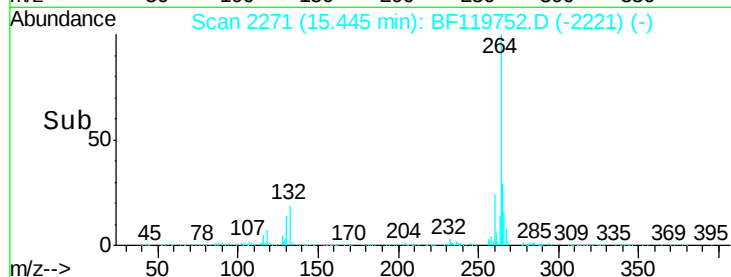


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

Time-->



#88

Benzo(b)fluoranthene

Concen: 118.955 ng m

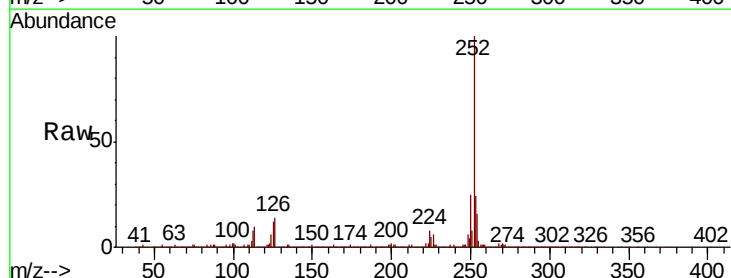
RT: 15.03 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Tgt Ion:	252	Resp:	2669377
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.4	26.0
125	12.4	7.9	11.9#

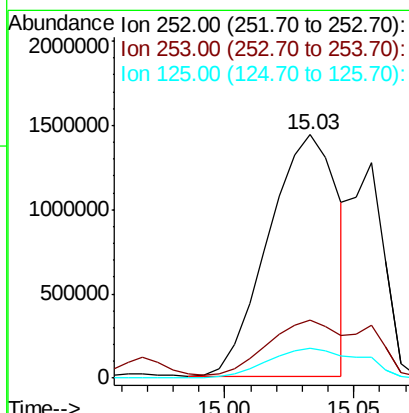
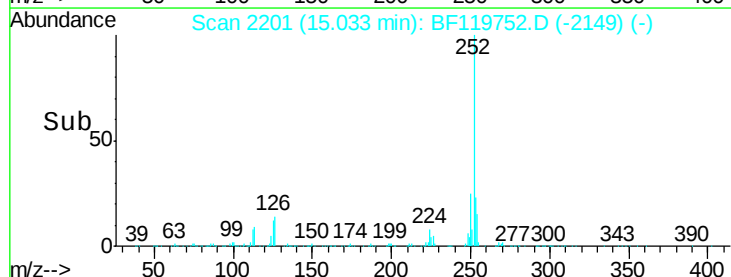


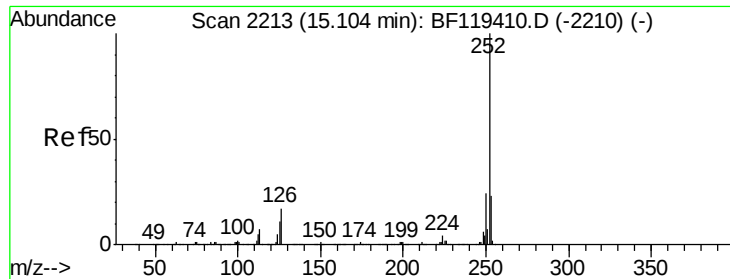
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time-->





#89

Benzo(k)fluoranthene

Concen: 51.425 ng

RT: 15.06 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

Instrument :

BNA_F

ClientSampleId :

TP-7

Tot Ion:252 Resp: 1098832

Ion Ratio Lower Upper

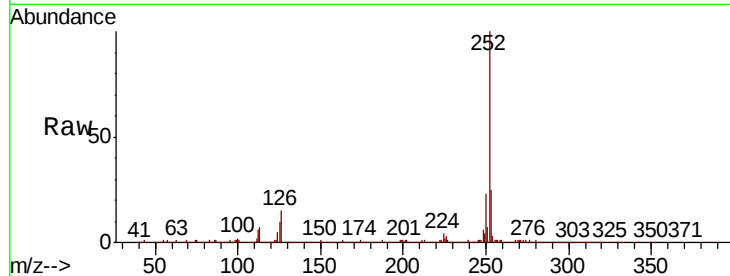
252 100

253 24.6 17.8 26.6

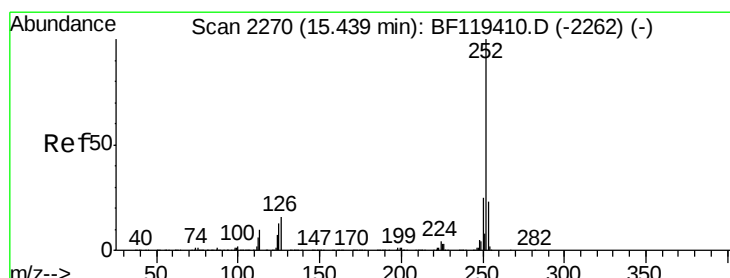
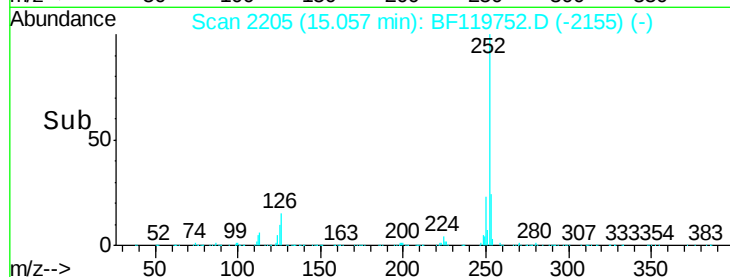
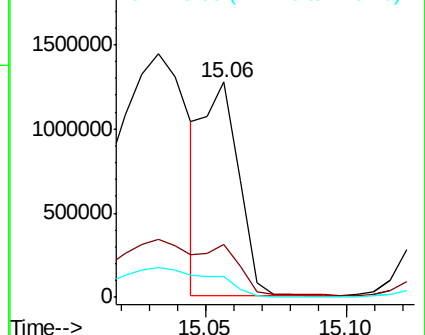
125 9.9 8.4 12.6

Manual Integrations
APPROVED

mohammad
4/6/2020 1:39:26 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 91.271 ng

RT: 15.39 min Scan# 2262

Delta R.T. -0.01 min

Lab File: BF119752.D

Acq: 4 Apr 2020 8:29

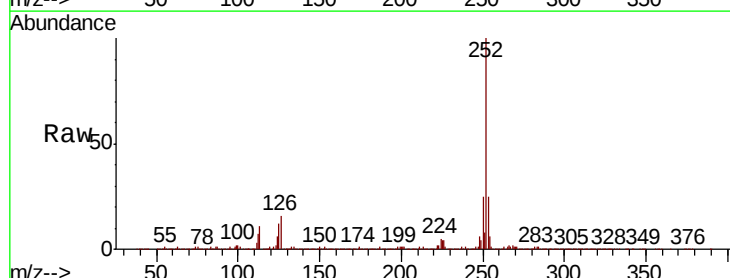
Tgt Ion:252 Resp: 1861329

Ion Ratio Lower Upper

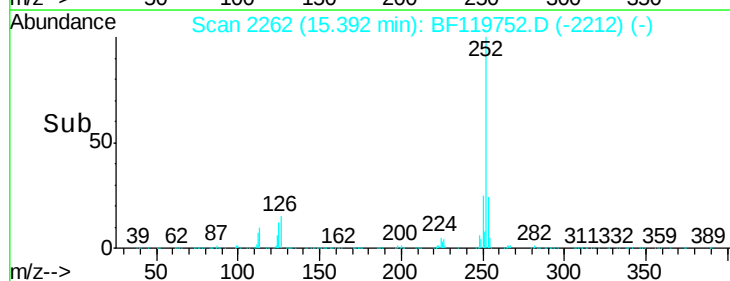
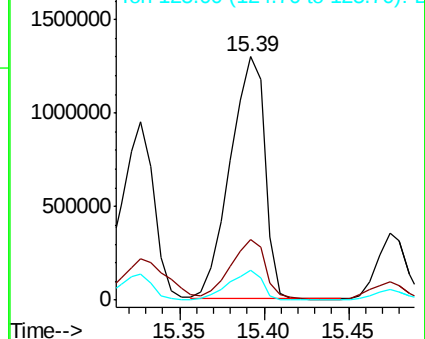
252 100

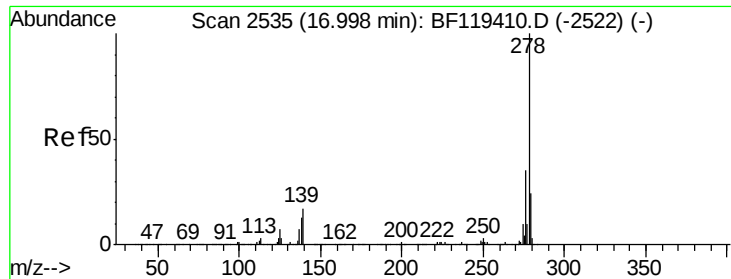
253 24.7 18.2 27.2

125 12.1 9.4 14.2



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





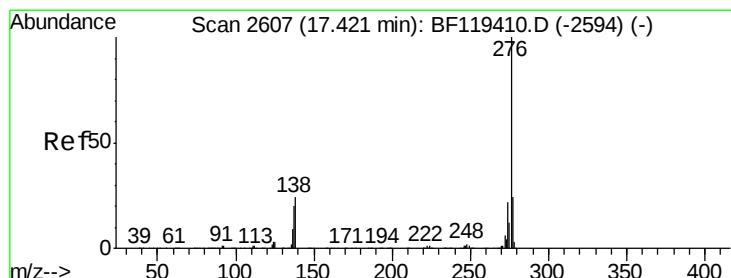
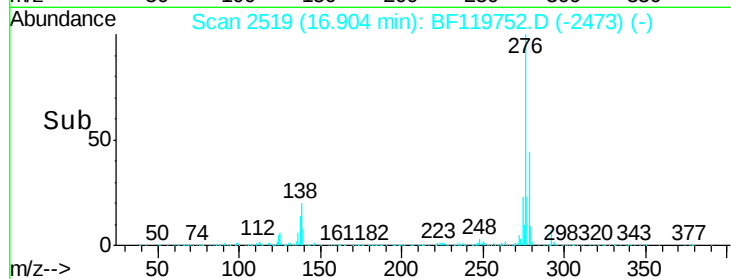
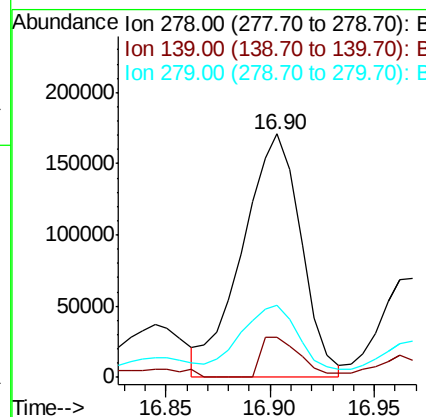
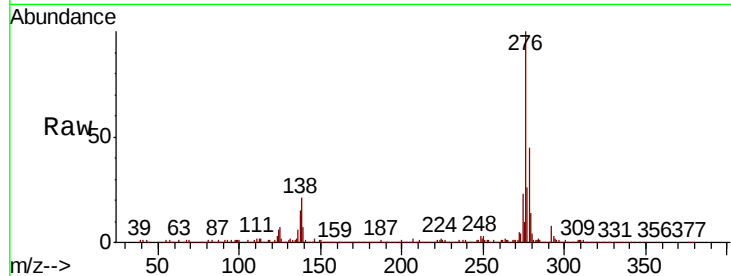
#91
Dibenzo(a,h)anthracene
Concen: 18.739 ng/mL
RT: 16.90 min Scan# 2519
Delta R.T. -0.03 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Instrument :
BNA_F
ClientSampleId :
TP-7

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.5	12.6	19.0
279	29.8	19.0	28.6

Manual Integrations
APPROVED

mohammad
4/6/2020 1:39:26 PM



#92
Benzo(g,h,i)perylene
Concen: 41.612 ng/mL
RT: 17.33 min Scan# 2592
Delta R.T. -0.02 min
Lab File: BF119752.D
Acq: 4 Apr 2020 8:29

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.4	27.6
138	19.9	15.4	23.0

