

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022520\
 Data File : BF119084.D
 Acq On : 26 Feb 2020 00:41
 Operator : CG/JU
 Sample : L1613-01DL 50X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-EP1-2DL

Manual Integrations
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 2/27/2020 5:02:36 PM

Quant Time: Feb 26 04:21:59 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 20 17:40:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	169659	20.00	ng	-0.01
21) Naphthalene-d8	8.03	136	633586	20.00	ng	-0.01
39) Acenaphthene-d10	9.79	164	314682	20.00	ng	0.00
64) Phenanthrene-d10	11.27	188	493117	20.00	ng	0.00
76) Chrysene-d12	13.91	240	343119	20.00	ng	0.00
87) Perylene-d12	15.34	264	345906	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	15014	1.48	ng	0.01
7) Phenol-d6	6.40	99	20337	1.65	ng	0.00
23) Nitrobenzene-d5	7.32	82	12664	1.06	ng	-0.01
42) 2,4,6-Tribromophenol	10.57	330	5162	1.25	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	30485	1.43	ng	-0.02
79) Terphenyl-d14	12.85	244	30278	1.52	ng	-0.01
Target Compounds						
31) Naphthalene	8.06	128	249435	7.591	ng	99
37) 2-Methylnaphthalene	8.75	142	66355	3.001	ng	99
38) 1-Methylnaphthalene	8.85	142	42060	2.022	ng	99
49) Acenaphthylene	9.65	152	502320	16.970	ng	99
55) Dibenzofuran	9.99	168	110745	4.157	ng	95
58) Fluorene	10.33	166	155172	7.496	ng	100
71) Phenanthrene	11.30	178	1044969	38.858	ng	100
72) Anthracene	11.35	178	423823	15.773	ng	99
73) Carbazole	11.50	167	60714	2.536	ng	98
75) Fluoranthene	12.49	202	1460244	51.155	ng	99
78) Pyrene	12.72	202	1297541	47.094	ng	99
81) Benzo(a)anthracene	13.90	228	865508m	37.021	ng	
83) Chrysene	13.93	228	714208	30.659	ng	97
86) Indeno(1,2,3-cd)pyrene	16.74	276	491634	21.796	ng	# 93
88) Benzo(b)fluoranthene	14.93	252	1111635m	48.755	ng	
89) Benzo(k)fluoranthene	14.96	252	327386m	15.494	ng	
90) Benzo(a)pyrene	15.29	252	816936	39.700	ng	98
91) Dibenzo(a,h)anthracene	16.74	278	137657	7.603	ng	93
92) Benzo(a,h,i)perylene	17.17	276	479784	26.819	ng	98

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

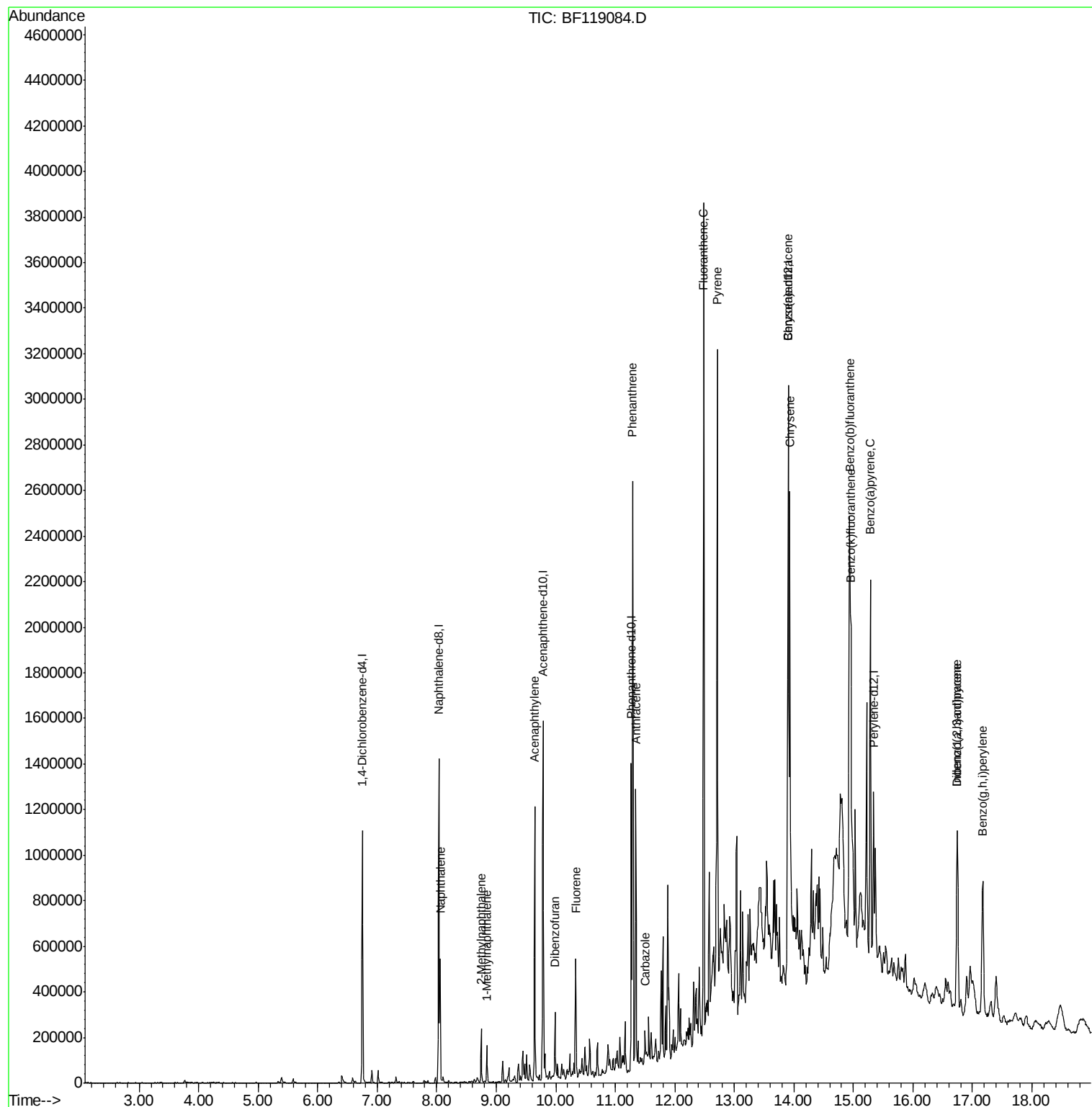
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ALS Vial : 22 Sample Multiplier: 1

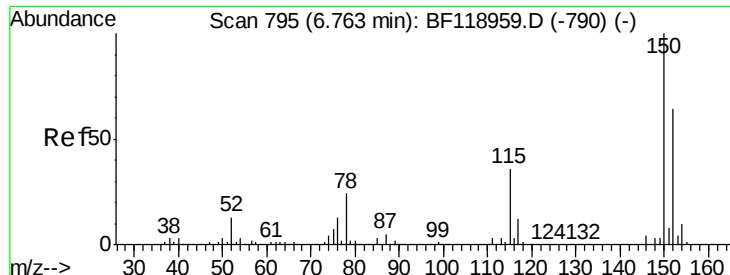
Instrument :
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ClientSampleId :
TP-14-EP1-2DL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

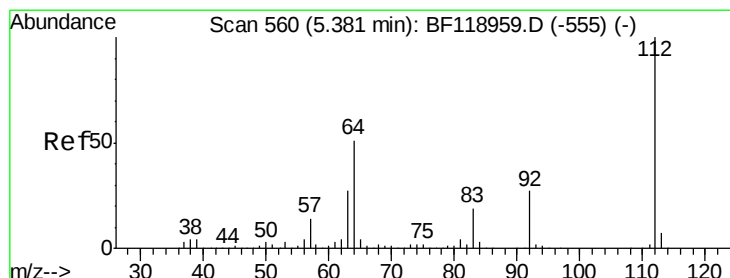
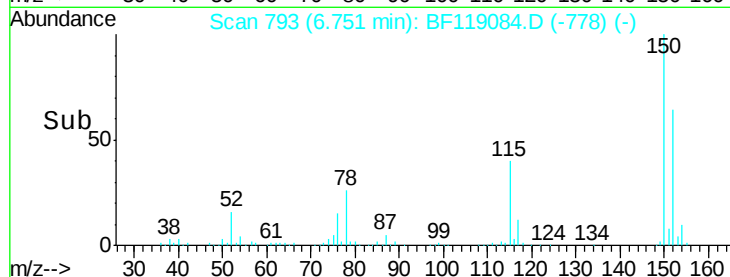
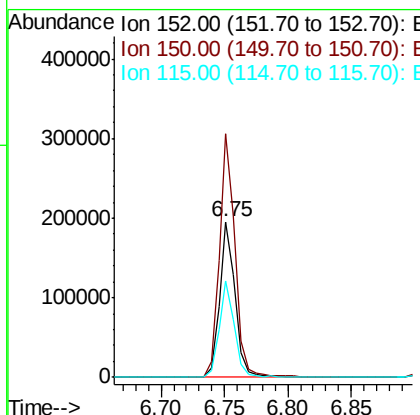
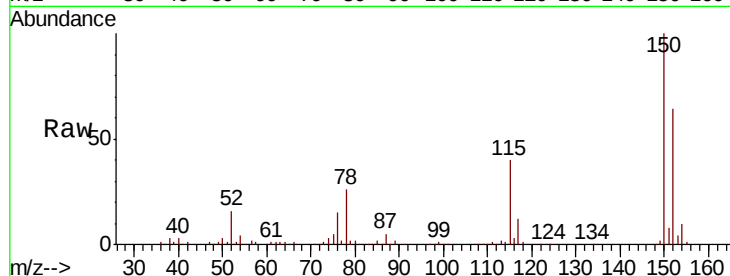
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.75 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.3	186.5
115	62.2	44.6	67.0

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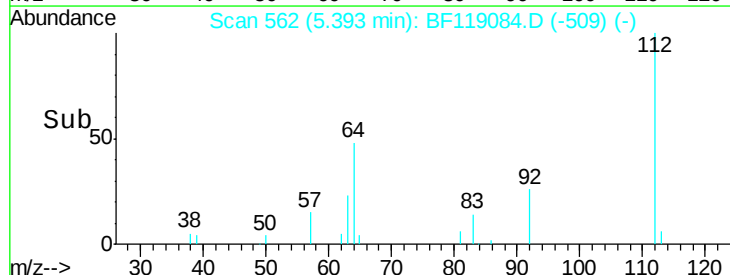
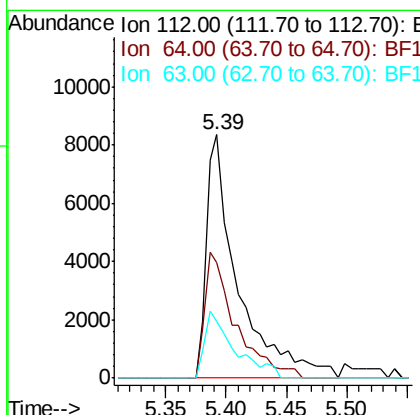
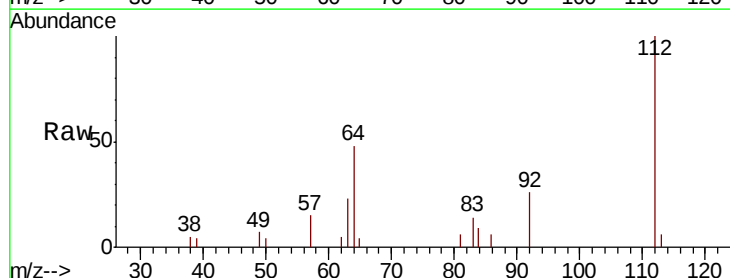
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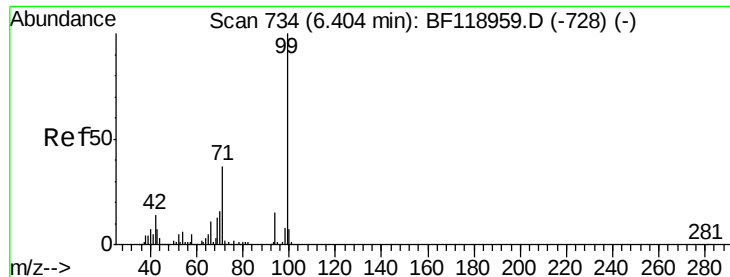


#5

2-Fluorophenol
Concen: 1.479 ng
RT: 5.39 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	47.7	40.4	60.6
63	23.2	21.3	31.9





#7

Phenol-d6

Concen: 1.647 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.00 min

Lab File: BF119084.D

Acq: 26 Feb 2020 00:41

Instrument :

BNA_F

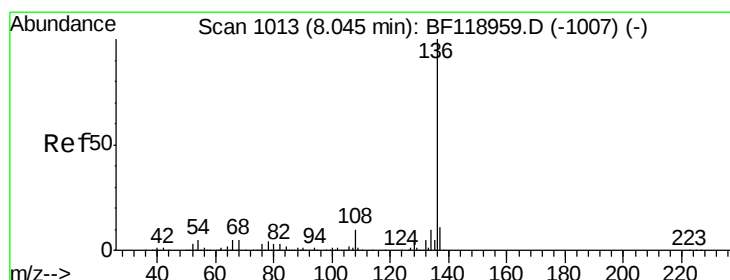
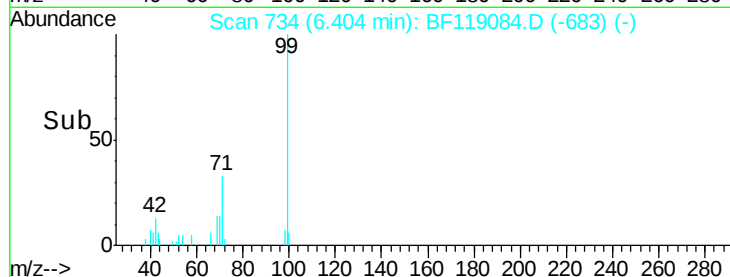
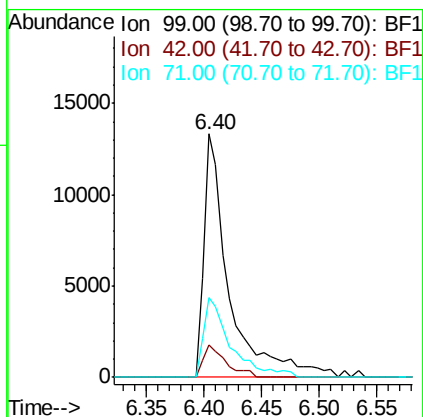
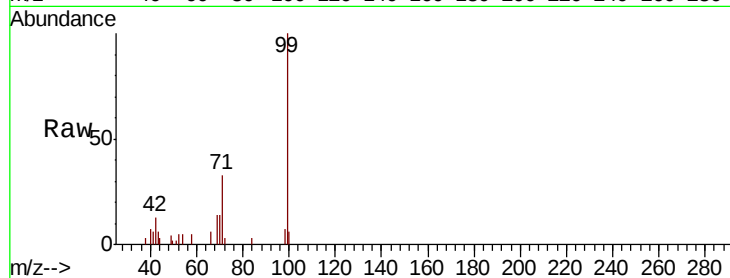
ClientSampleId :

TP-14-EP1-2DL

Tot Ion:	99	Resp:	20337
Ion	Ratio	Lower	Upper
99	100		
42	13.1	11.4	17.0
71	33.0	29.8	44.6

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#21

Naphthalene-d8

Concen: 20.000 ng

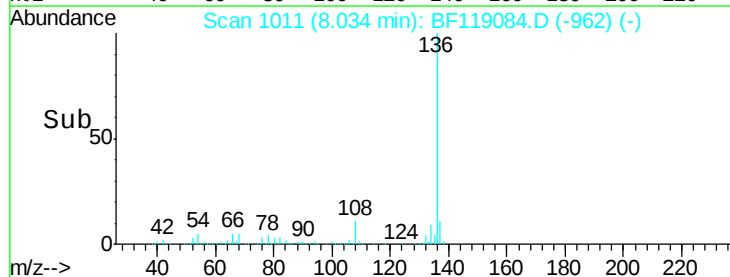
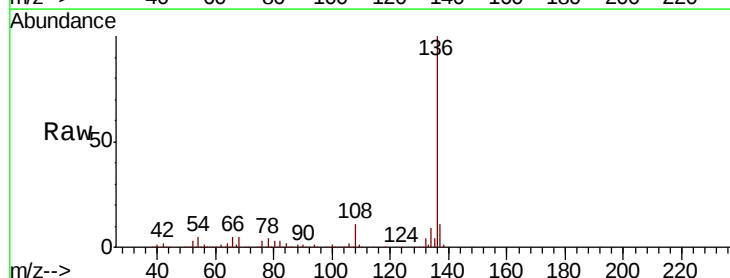
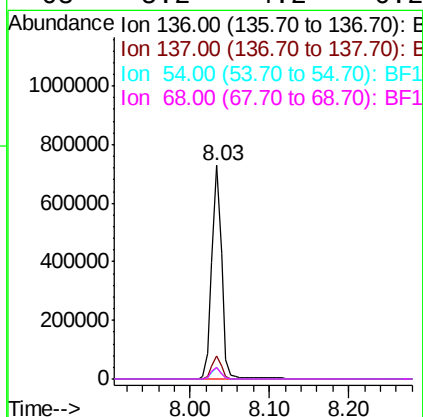
RT: 8.03 min Scan# 1011

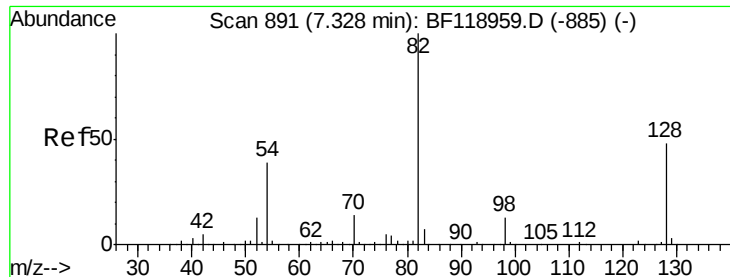
Delta R.T. -0.01 min

Lab File: BF119084.D

Acq: 26 Feb 2020 00:41

Tgt Ion:	136	Resp:	633586
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	5.2	3.8	5.6
68	5.2	4.2	6.2





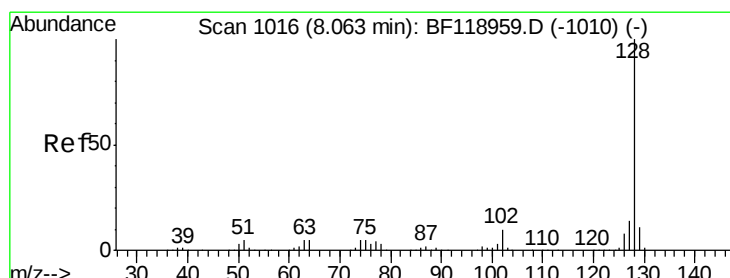
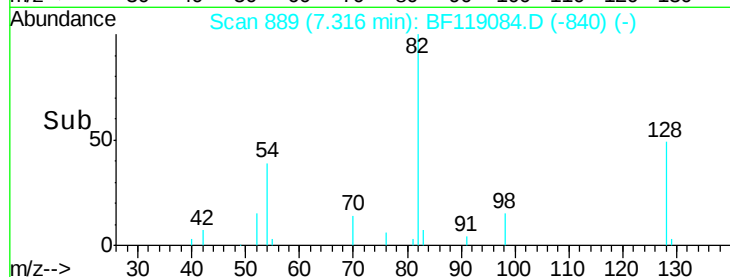
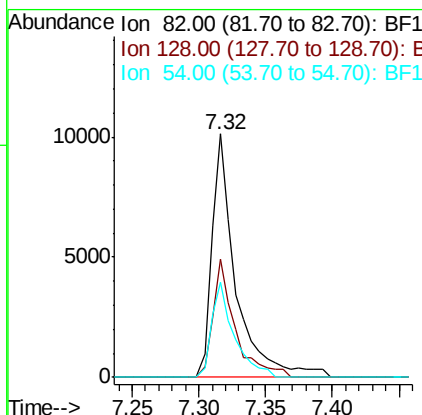
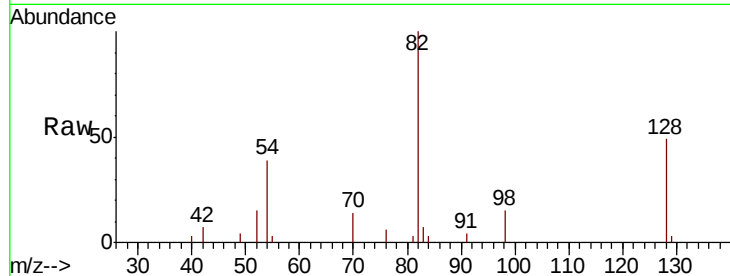
#23
Nitrobenzene-d5
Concen: 1.055 ng
RT: 7.32 min Scan# 889
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion:	82	Resp:	12664
Ion Ratio	Lower	Upper	
82	100		
128	48.6	38.2	57.2
54	39.0	31.3	46.9

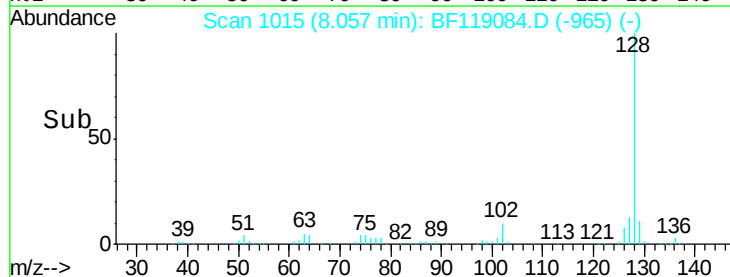
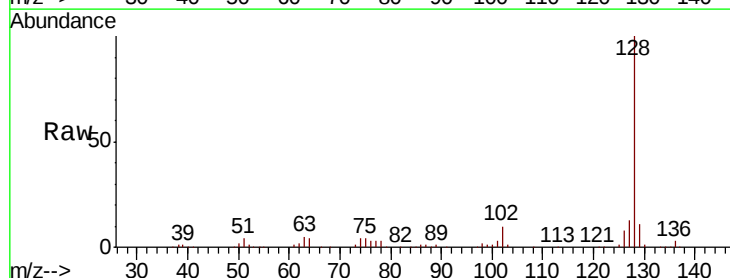
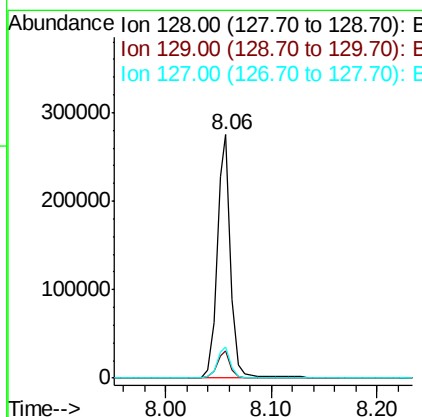
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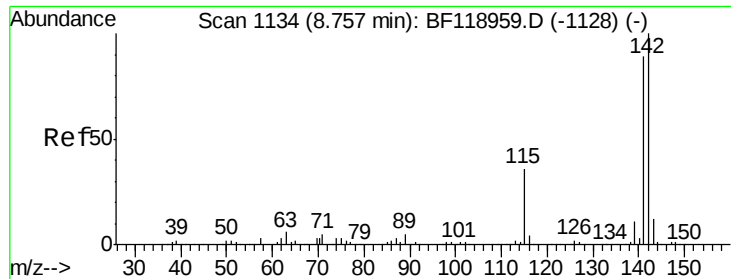
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#31
Naphthalene
Concen: 7.591 ng
RT: 8.06 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion:	128	Resp:	249435
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.4
127	12.9	10.9	16.3





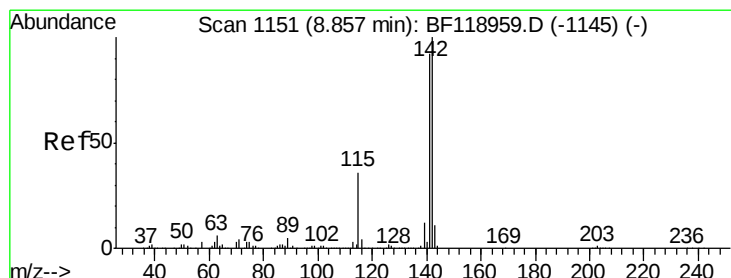
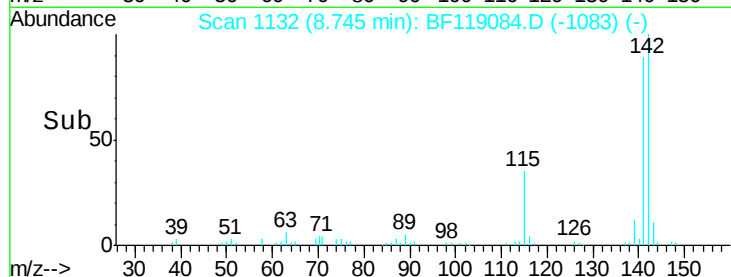
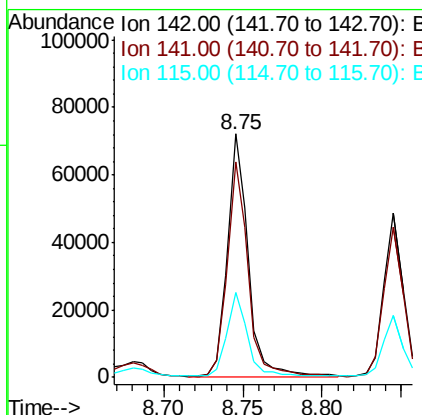
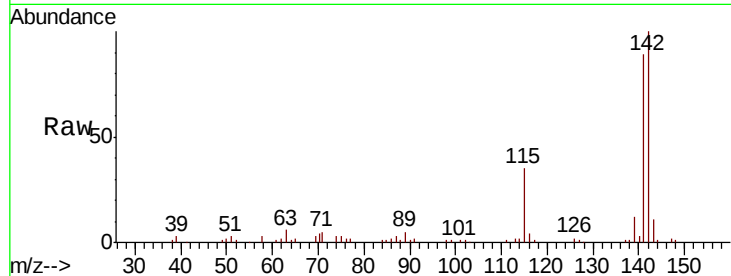
#37
2-Methylnaphthalene
Concen: 3.001 ng
RT: 8.75 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.0	106.4
115	34.7	28.6	42.8

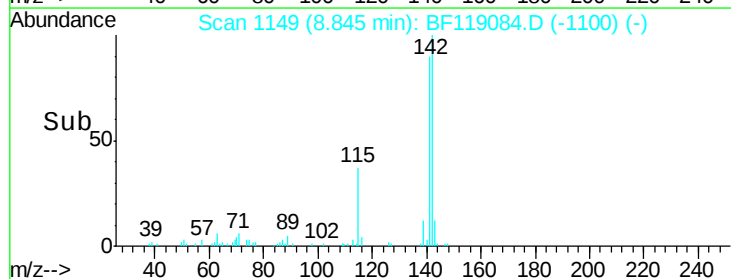
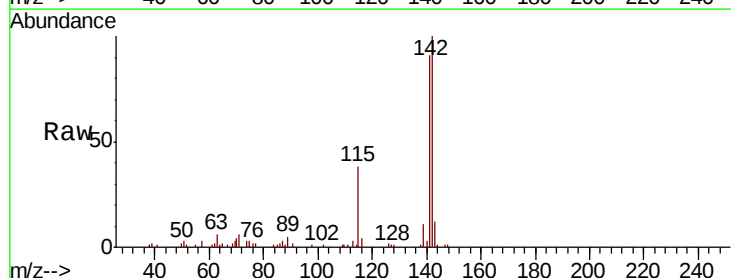
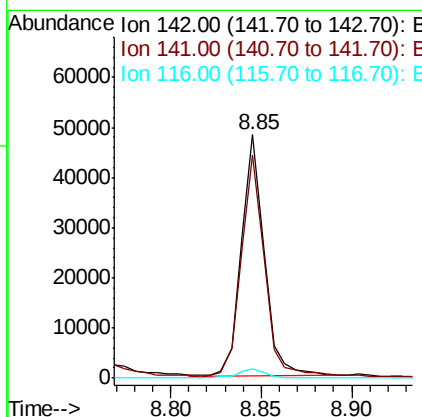
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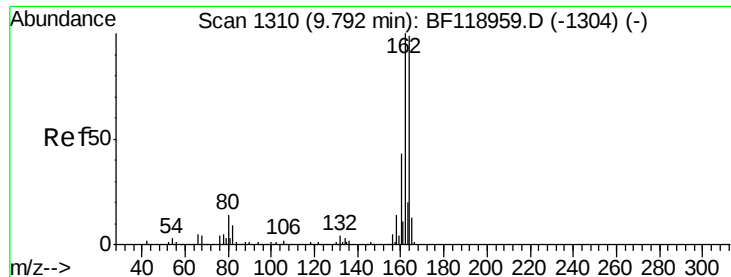
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#38
1-Methylnaphthalene
Concen: 2.022 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.7	110.5
116	3.8	3.0	4.6





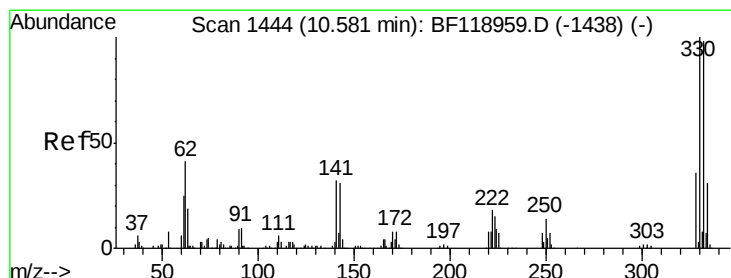
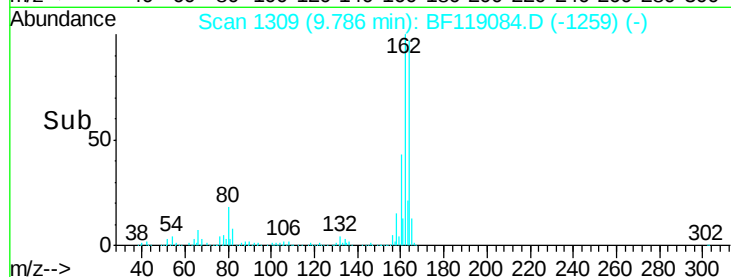
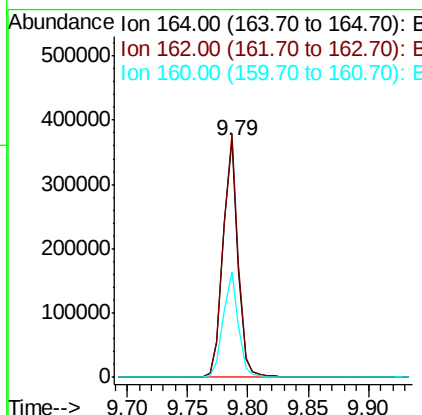
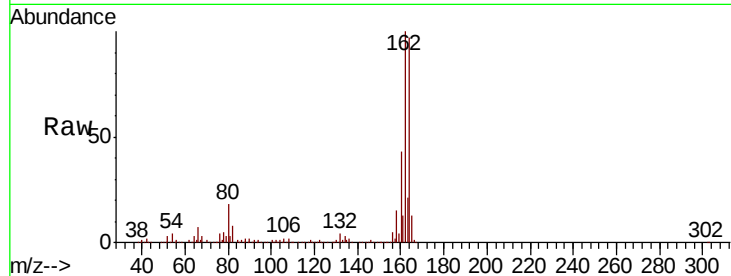
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.8	81.2	121.8
160	44.5	35.2	52.8

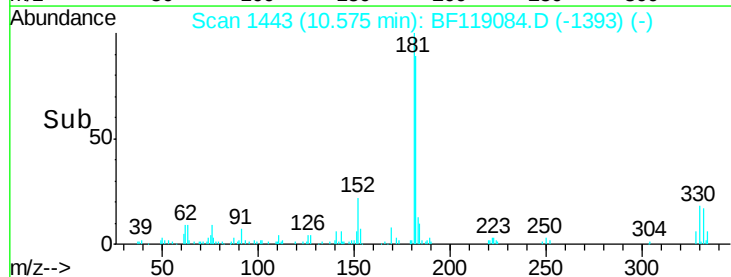
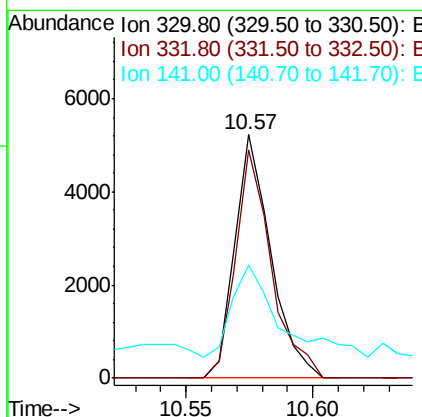
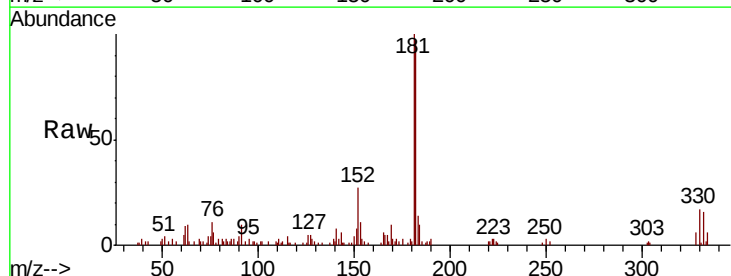
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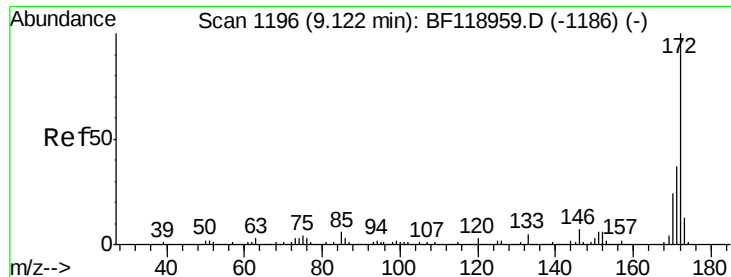
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#42
2,4,6-Tribromophenol
Concen: 1.254 ng
RT: 10.57 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.0	77.1	115.7
141	49.9	23.0	34.6#





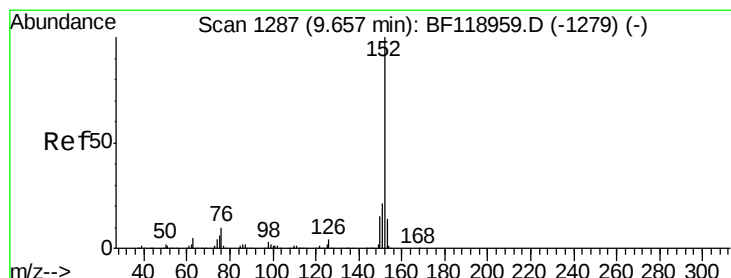
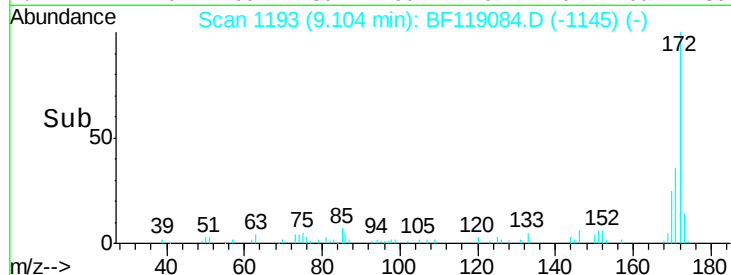
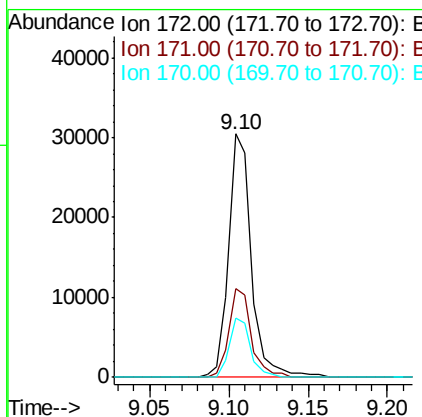
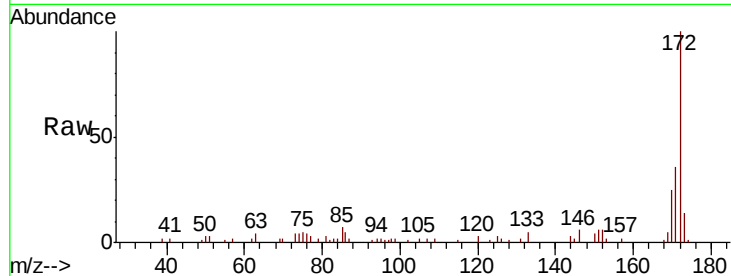
#45
2-Fluorobiphenyl
Concen: 1.427 ng
RT: 9.10 min Scan# 1193
Delta R.T. -0.02 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.4	44.2
170	24.6	19.6	29.4

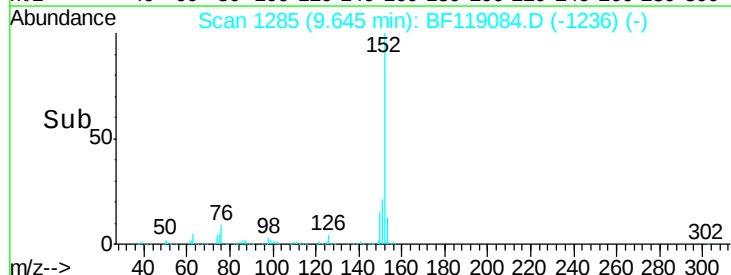
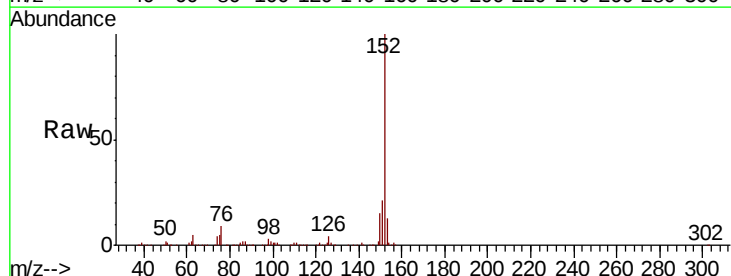
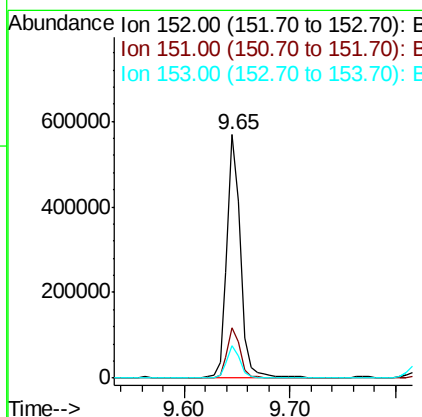
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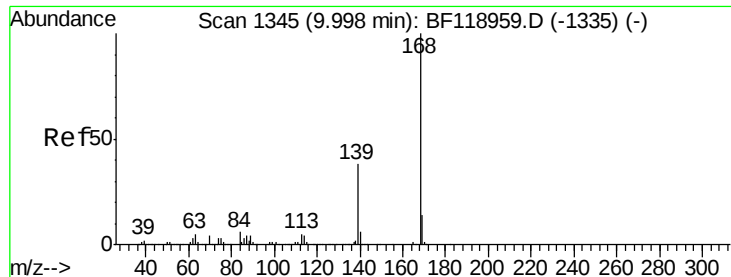
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#49
Acenaphthylene
Concen: 16.970 ng
RT: 9.65 min Scan# 1285
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1
153	13.2	10.9	16.3





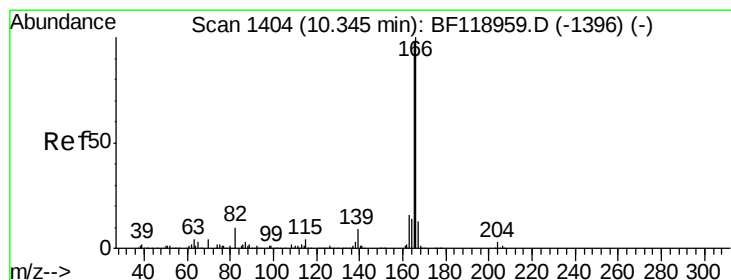
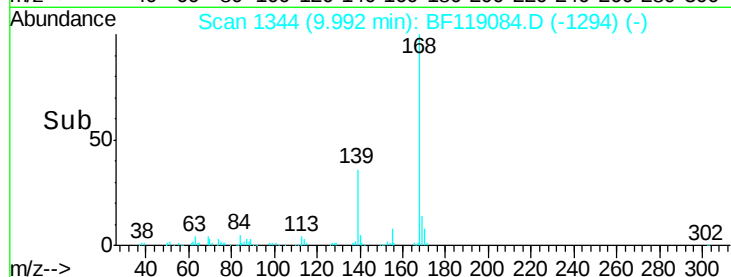
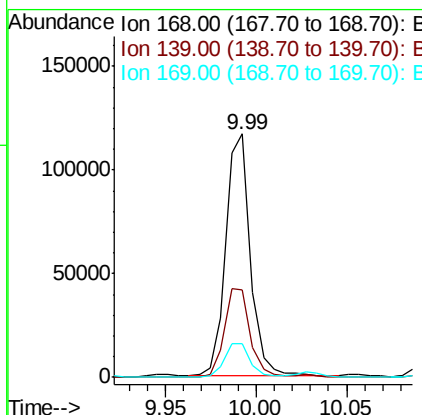
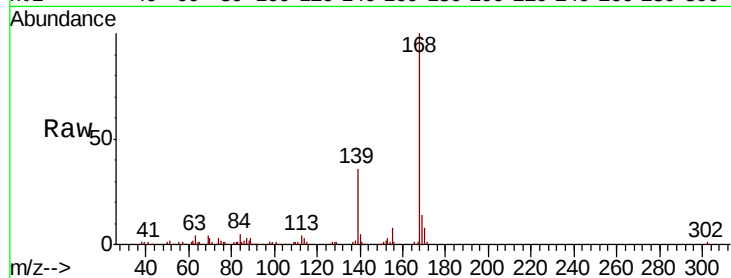
#55
Dibenzenofuran
Concen: 4.157 ng
RT: 9.99 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.9	31.7	47.5
169	13.7	11.0	16.4

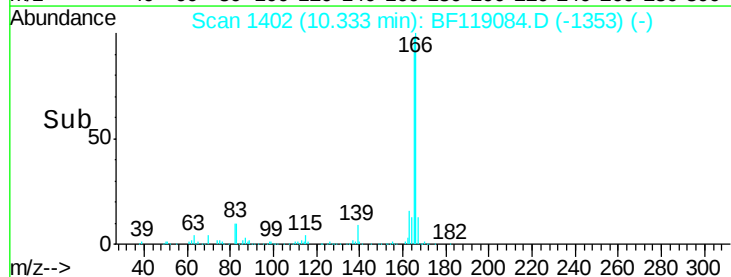
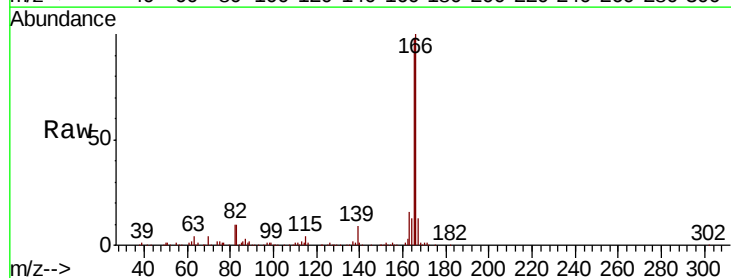
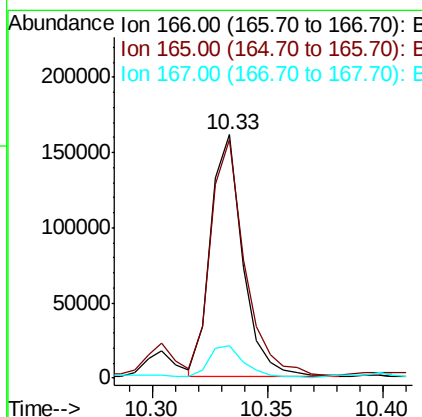
Manual Integrations
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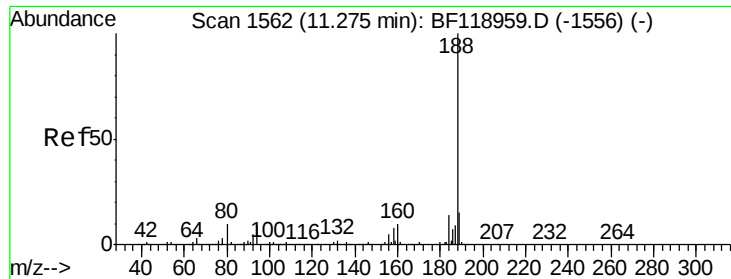
mohammad
2/27/2020 5:02:36 PM



#58
Fluorene
Concen: 7.496 ng
RT: 10.33 min Scan# 1402
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.4
167	13.5	10.6	16.0





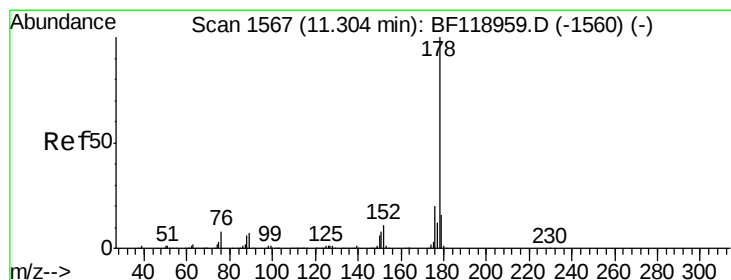
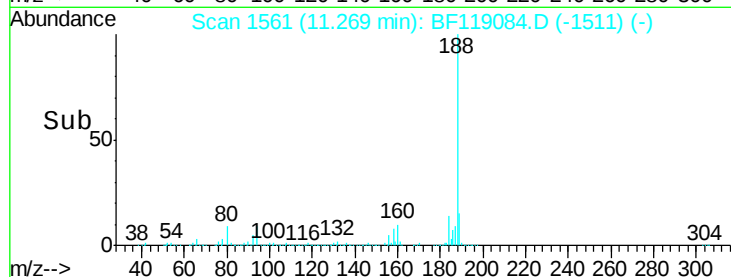
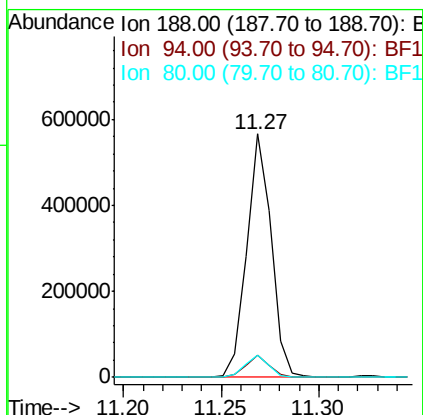
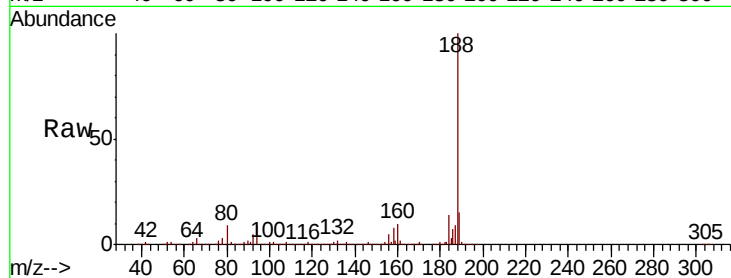
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.9	7.0	10.6
80	9.2	7.9	11.9

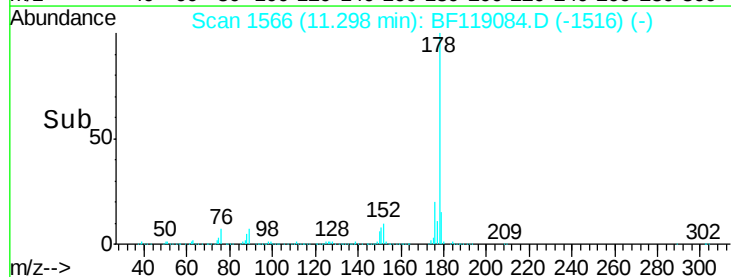
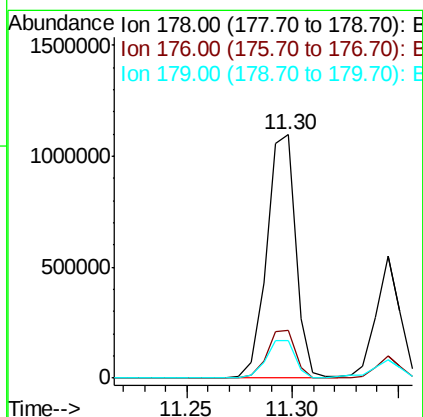
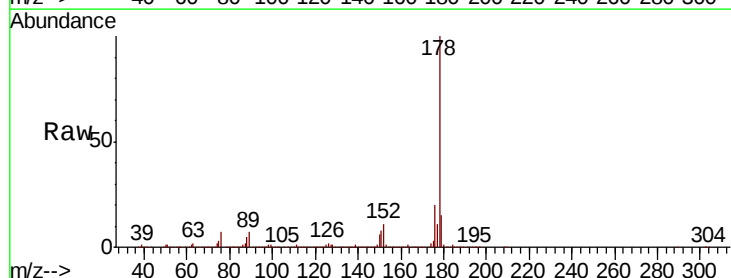
Manual Integrations
APPROVED

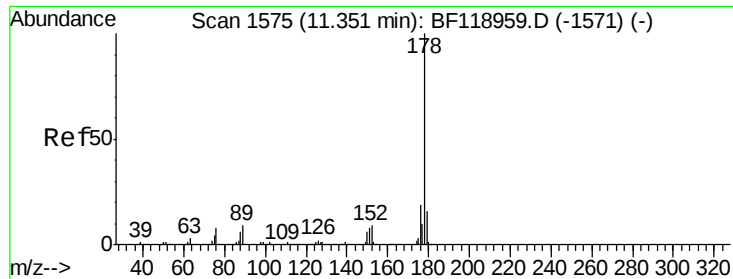
mohammad
2/27/2020 5:02:36 PM



#71
Phenanthrene
Concen: 38.858 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.6	15.6	23.4
179	15.4	12.6	18.8





#72

Anthracene

Concen: 15.773 ng

RT: 11.35 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BF119084.D

Acq: 26 Feb 2020 00:41

Instrument :

BNA_F

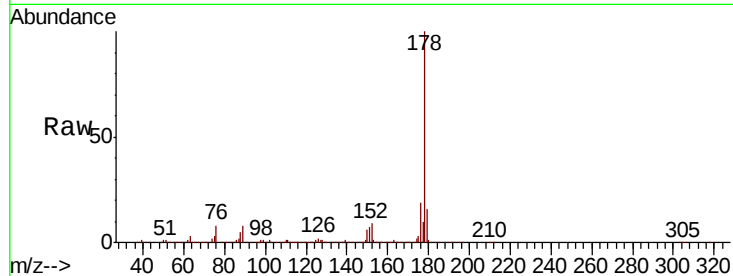
ClientSampleId :

TP-14-EP1-2DL

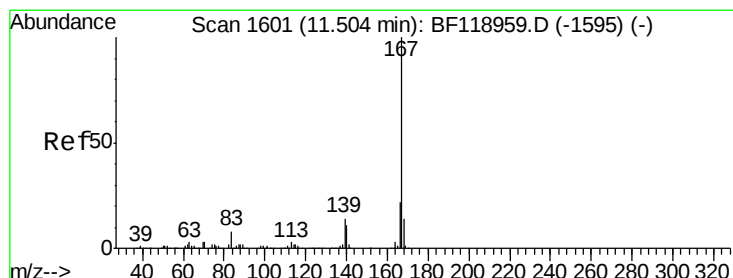
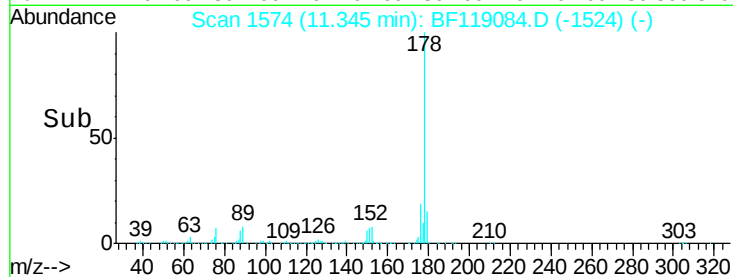
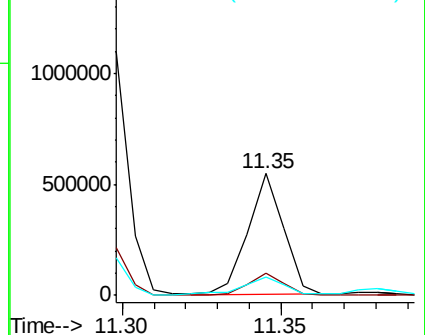
Tot Ion:	178	Resp:	423823
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.4	23.2
179	15.5	12.8	19.2

Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
1500000
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.536 ng

RT: 11.50 min Scan# 1600

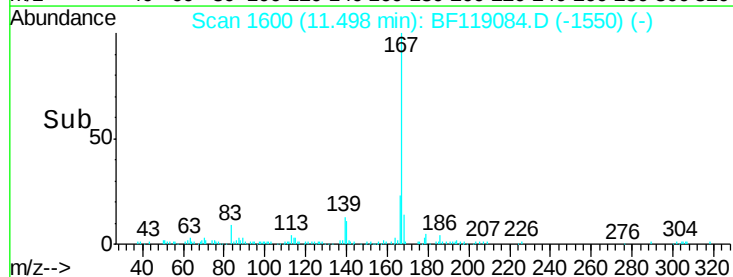
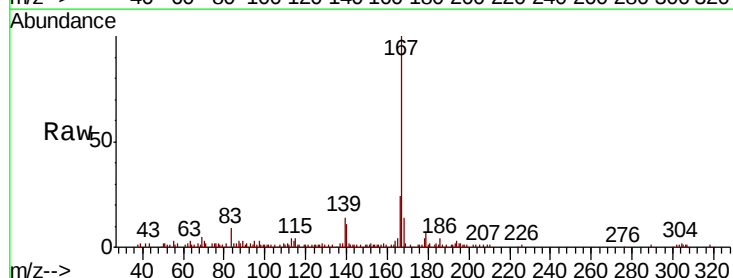
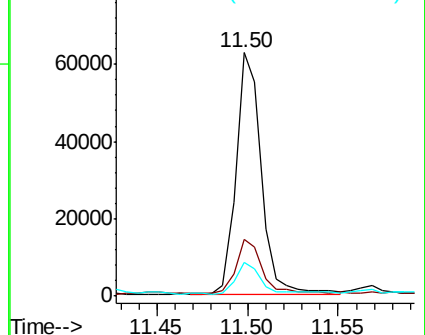
Delta R.T. -0.01 min

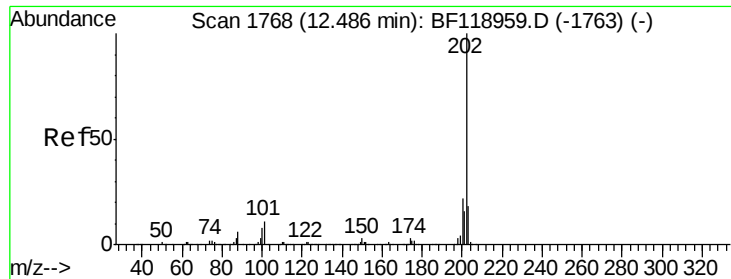
Lab File: BF119084.D

Acq: 26 Feb 2020 00:41

Tgt Ion:	167	Resp:	60714
Ion Ratio	Lower	Upper	
167	100		
166	23.5	17.8	26.6
139	13.6	11.2	16.8

Abundance Ion 167.00 (166.70 to 167.70): E
80000
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 51.155 ng

RT: 12.49 min Scan# 1768

Delta R.T. -0.00 min

Lab File: BF119084.D

Acq: 26 Feb 2020 00:41

Instrument :

BNA_F

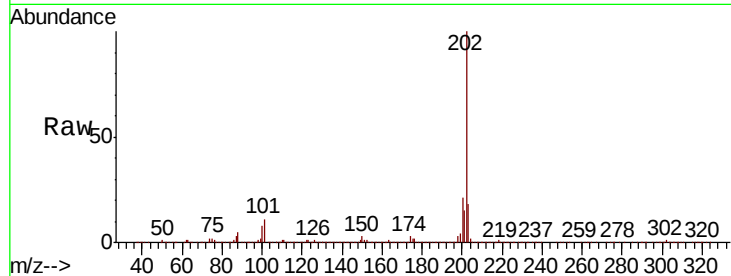
ClientSampleId :

TP-14-EP1-2DL

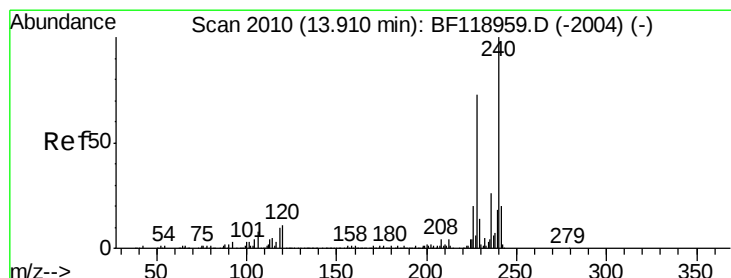
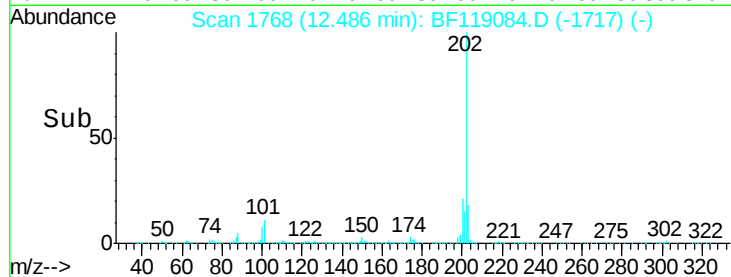
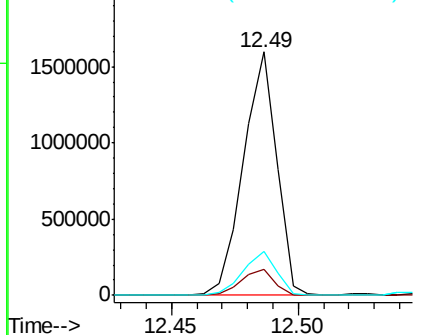
Tot Ion:	202	Resp:	1460244
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	18.0	0.0	38.1

Manual Integrations
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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

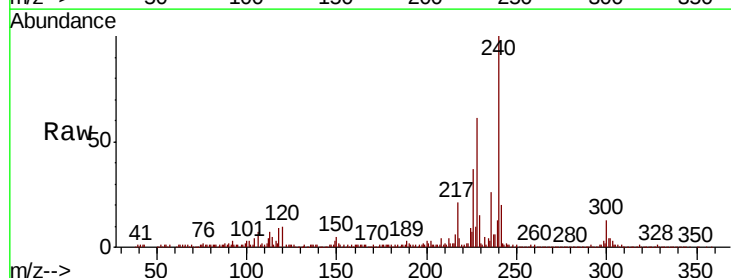
RT: 13.91 min Scan# 2010

Delta R.T. -0.00 min

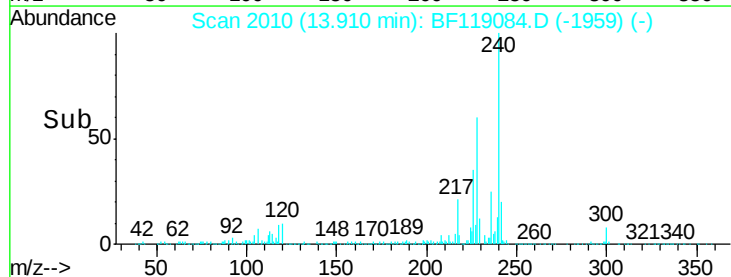
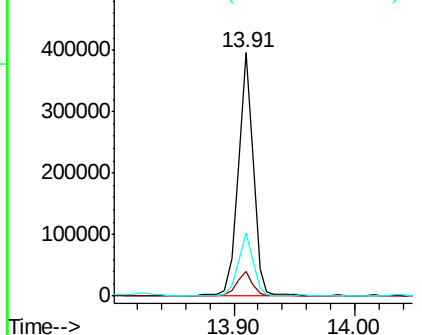
Lab File: BF119084.D

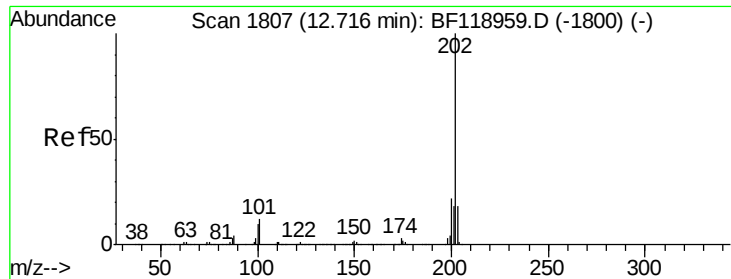
Acq: 26 Feb 2020 00:41

Tgt Ion:	240	Resp:	343119
Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.9	13.3
236	25.9	20.6	30.8



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





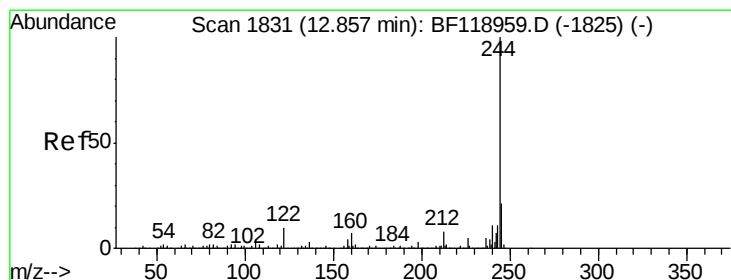
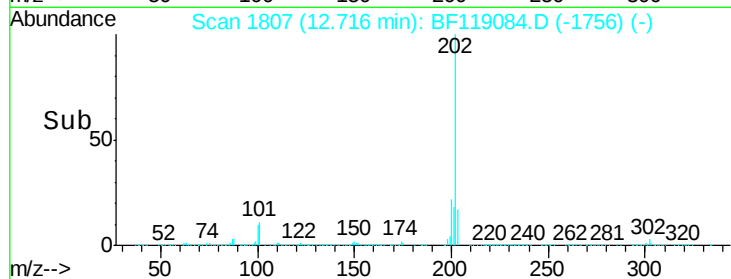
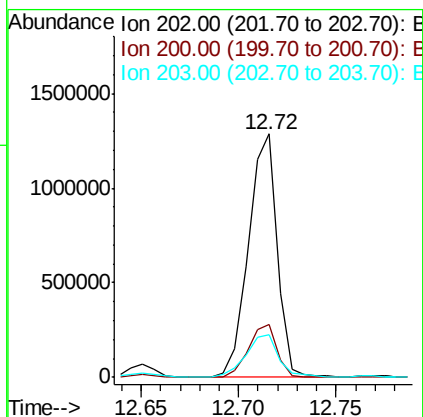
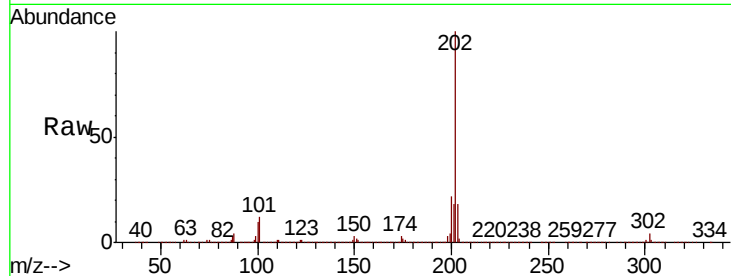
#78
Pvrene
Concen: 47.094 ng
RT: 12.72 min Scan# 1807
Delta R.T. -0.00 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.0
203	17.7	14.5	21.7

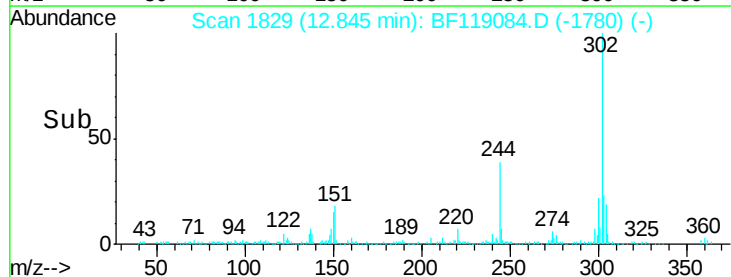
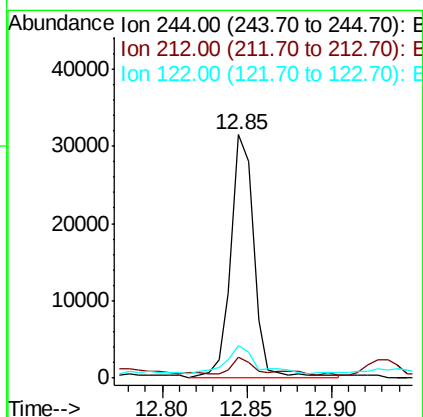
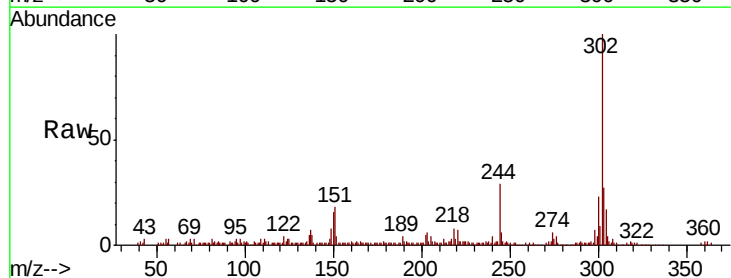
Manual Integrations
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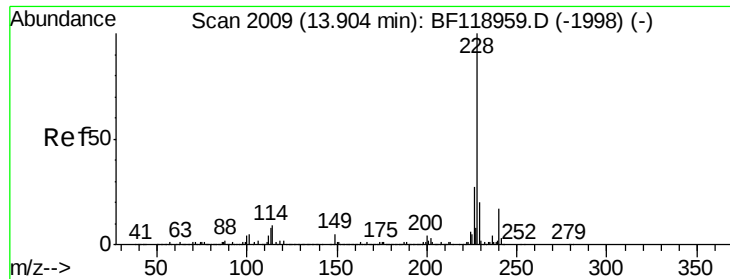
mohammad
2/27/2020 5:02:36 PM



#79
Terphenyl-d14
Concen: 1.519 ng
RT: 12.85 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.8	6.3	9.5
122	13.3	8.4	12.6





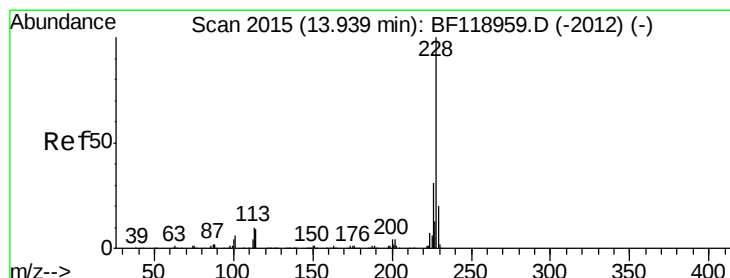
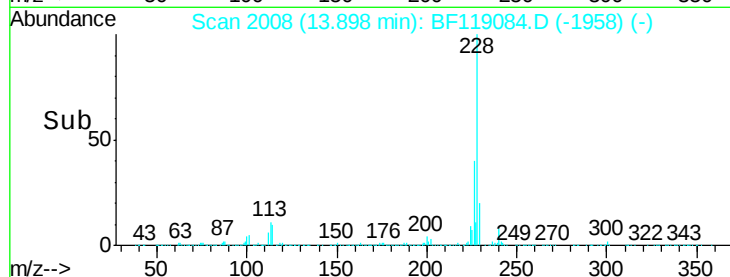
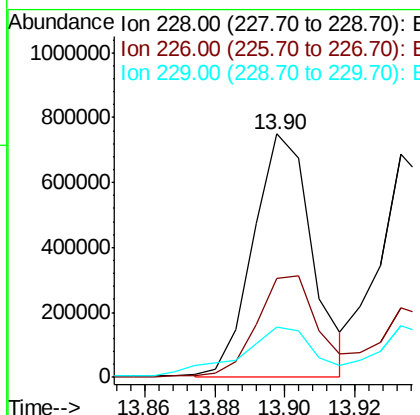
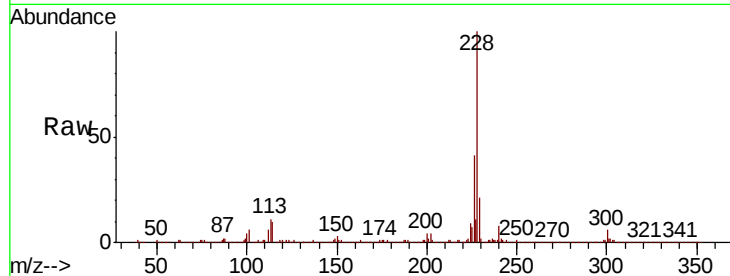
#81
Benzo(a)anthracene
Concen: 37.021 ng m
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	40.6	21.8	32.8#
229	20.7	16.0	24.0

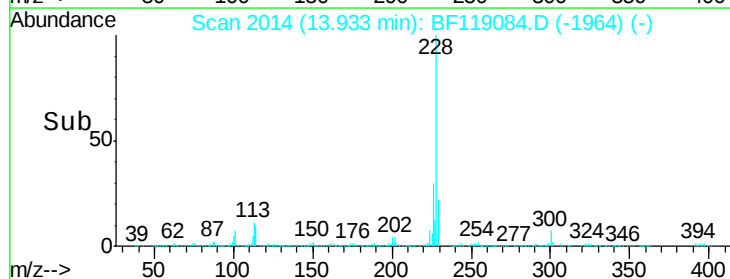
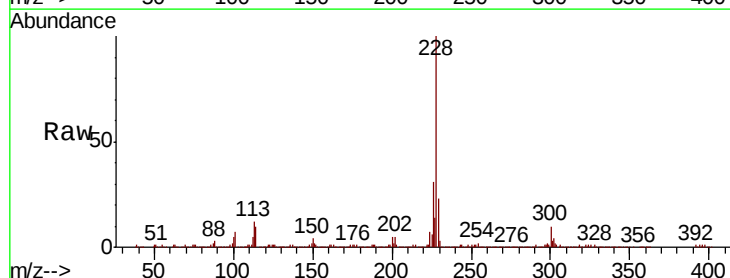
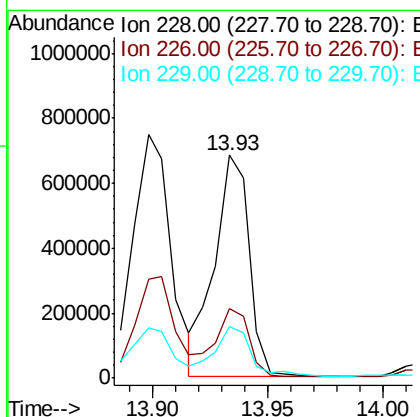
Manual Integrations
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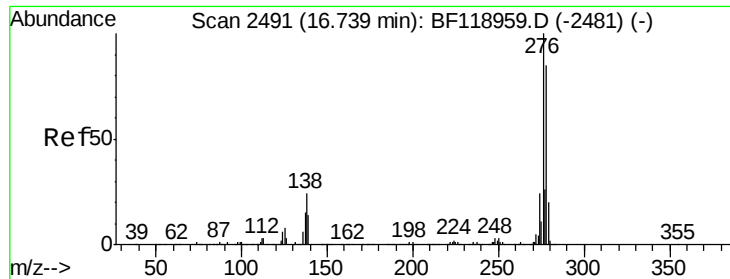
mohammad
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#83
Chrysene
Concen: 30.659 ng
RT: 13.93 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	23.1	16.2	24.2





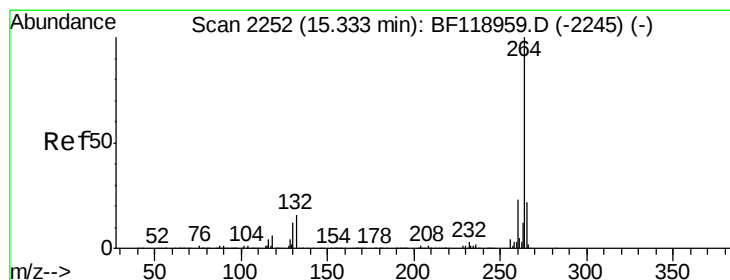
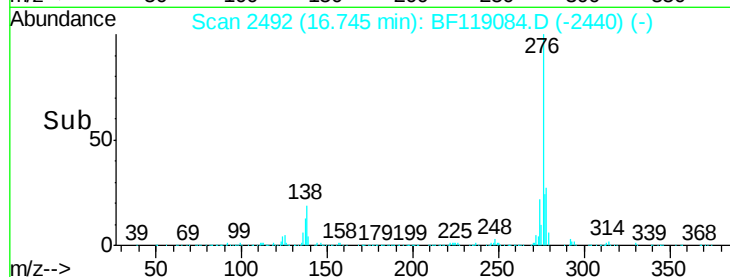
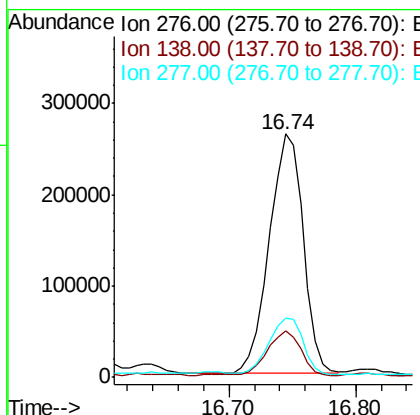
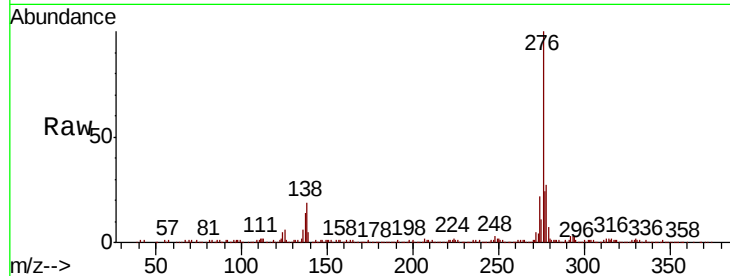
#86
Indeno(1,2,3-cd)pyrene
Concen: 21.796 ng
RT: 16.74 min Scan# 2492
Delta R.T. 0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.2	18.7	28.1#
277	24.0	20.3	30.5

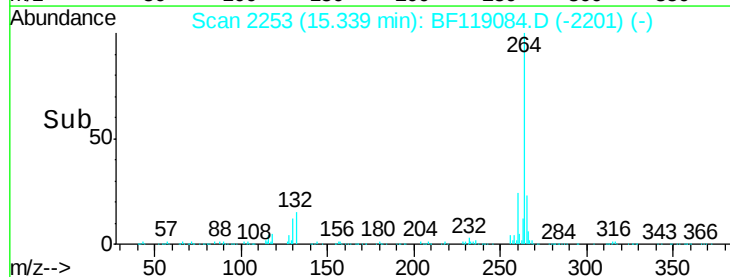
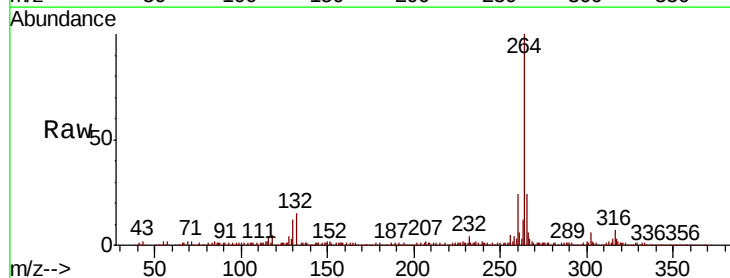
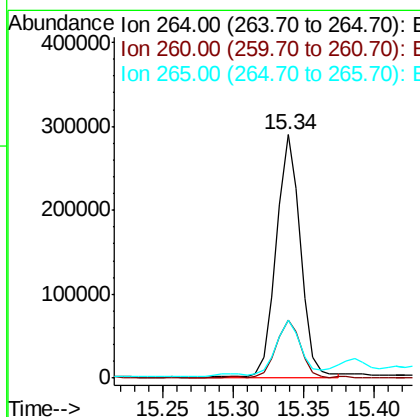
Manual Integrations
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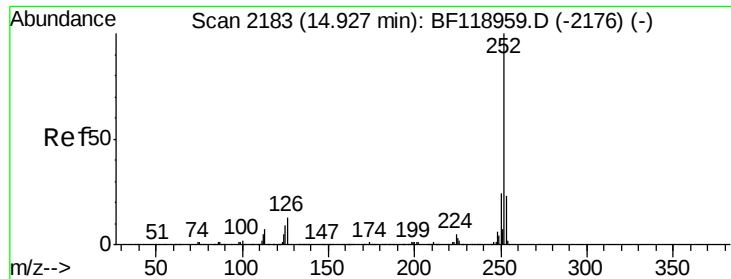
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	28.0
265	23.8	17.3	25.9





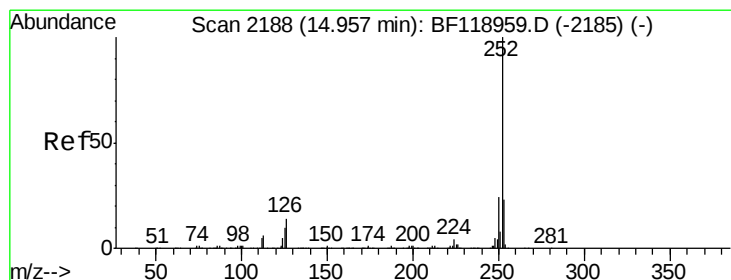
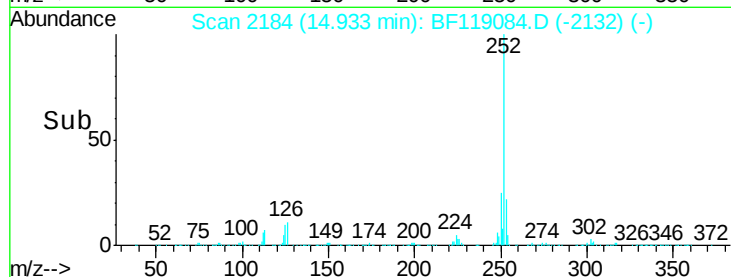
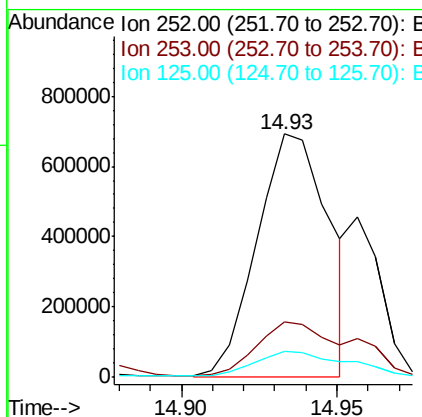
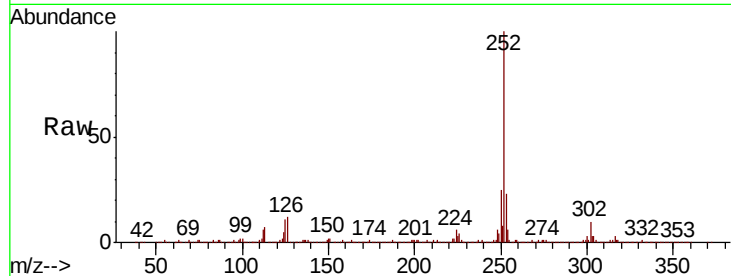
#88
Benzo(b)fluoranthene
Concen: 48.755 ng m
RT: 14.93 min Scan# 2184
Delta R.T. 0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	10.6	7.4	11.0

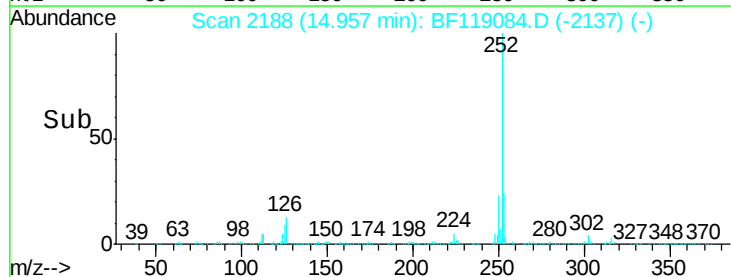
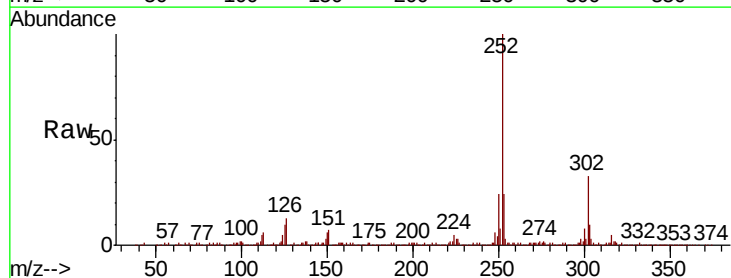
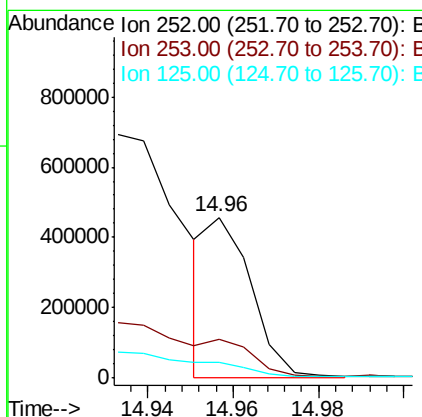
Manual Integrations
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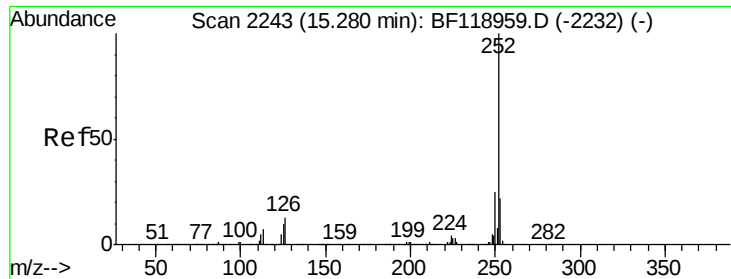
mohammad
2/27/2020 5:02:36 PM



#89
Benzo(k)fluoranthene
Concen: 15.494 ng m
RT: 14.96 min Scan# 2188
Delta R.T. -0.00 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	10.0	7.3	10.9





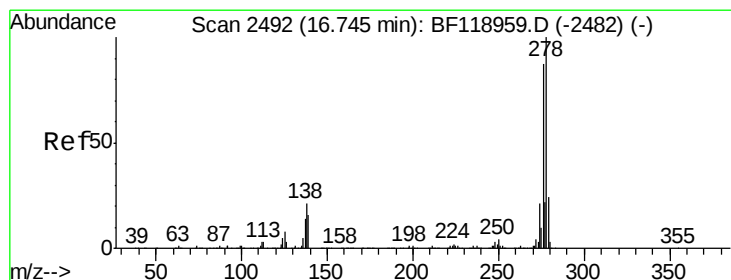
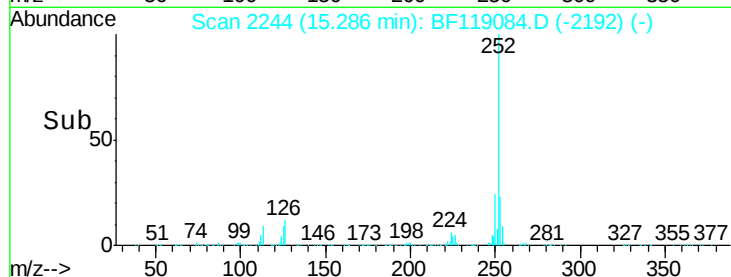
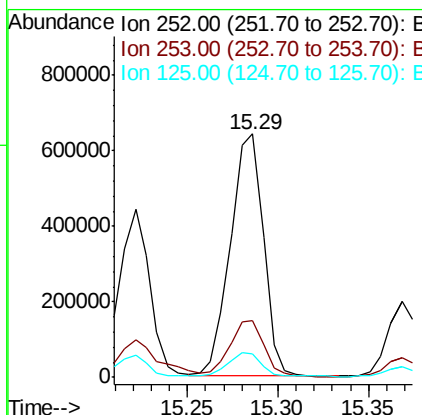
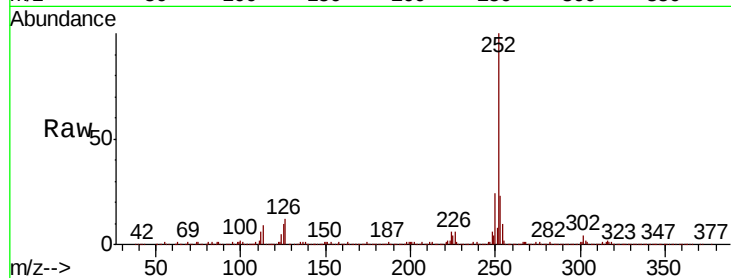
#90
Benzo(a)pyrene
Concen: 39.700 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.01 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Instrument :
BNA_F
ClientSampleId :
TP-14-EP1-2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	9.7	7.8	11.6

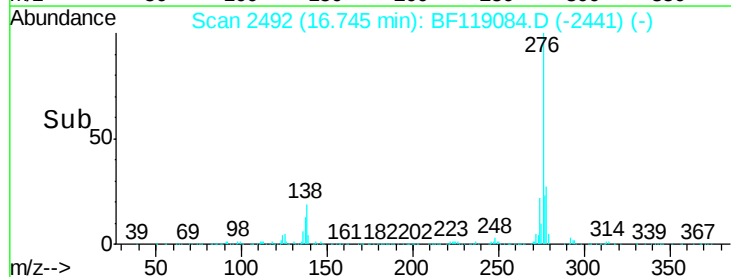
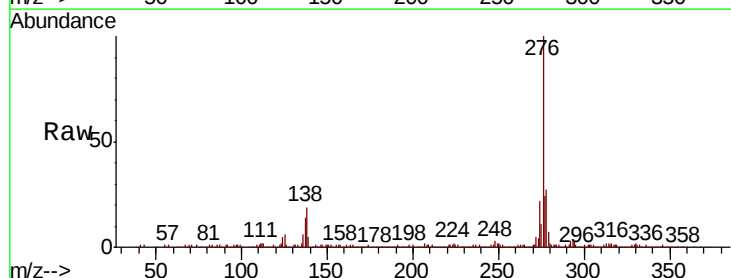
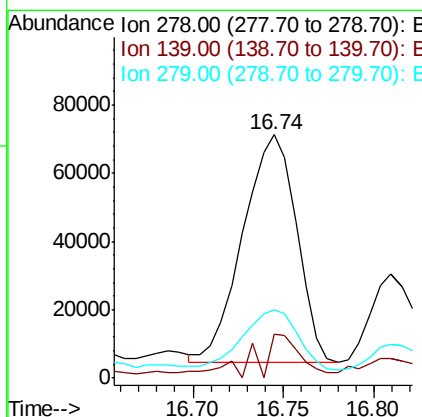
Manual Integrations
APPROVED

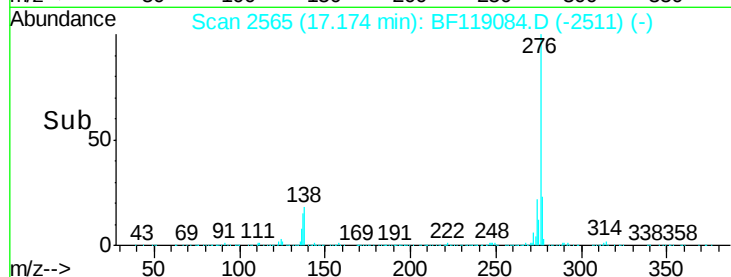
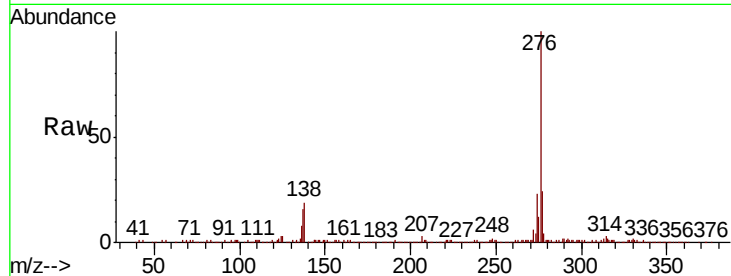
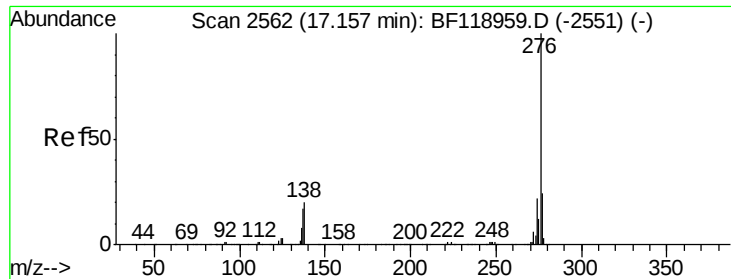
mohammad
2/27/2020 5:02:36 PM



#91
Dibenzo(a,h)anthracene
Concen: 7.603 ng
RT: 16.74 min Scan# 2492
Delta R.T. -0.00 min
Lab File: BF119084.D
Acq: 26 Feb 2020 00:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.0	12.6	18.8
279	27.8	19.0	28.6





#92

Benzo(a,h,i)perylene

Concen: 26.819 ng

RT: 17.17 min Scan# 2565

Delta R.T. 0.02 min

Lab File: BF119084.D

Acq: 26 Feb 2020 00:41

Instrument :

BNA_F

ClientSampleId :

TP-14-EP1-2DL

Tot Ion:276 Resp: 479784

Ion Ratio Lower Upper

276 100

277 24.4 19.2 28.8

138 18.7 16.2 24.4

Manual Integrations

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