

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102519\
 Data File : BF117554.D
 Acq On : 25 Oct 2019 23:21
 Operator : JU
 Sample : K5499-15DL 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 705-81-(0-1)DL

Manual Integrations
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 10/30/2019 4:50:53 PM

Quant Time: Nov 02 05:30:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	34665	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	147555	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	71875	20.00	ng	0.00
64) Phenanthrene-d10	11.26	188	106422	20.00	ng	0.00
76) Chrysene-d12	13.90	240	75750	20.00	ng	0.00
87) Perylene-d12	15.34	264	64415	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	14202	6.10	ng	0.03
7) Phenol-d6	6.41	99	23819	7.61	ng	0.03
23) Nitrobenzene-d5	7.31	82	13611m	4.55	ng	0.00
42) 2,4,6-Tribromophenol	10.57	330	3582	5.76	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	22204	4.35	ng	0.00
79) Terphenyl-d14	12.83	244	16044	3.45	ng	0.00
Target Compounds						
52) Acenaphthene	9.80	154	12031	2.976	ng	Qvalue 97
71) Phenanthrene	11.28	178	260755	42.197	ng	99
72) Anthracene	11.33	178	70447	11.111	ng	97
73) Carbazole	11.50	167	13683	2.361	ng	97
75) Fluoranthene	12.47	202	304801	49.271	ng	99
78) Pyrene	12.70	202	246215	37.841	ng	99
81) Benzo(a)anthracene	13.89	228	110470	21.620	ng	99
83) Chrysene	13.93	228	87961	17.565	ng	99
86) Indeno(1,2,3-cd)pyrene	16.76	276	31635	8.461	ng	94
88) Benzo(b)fluoranthene	14.93	252	89204m	23.451	ng	
89) Benzo(k)fluoranthene	14.95	252	31057m	7.966	ng	
90) Benzo(a)pyrene	15.28	252	59850	17.306	ng	94
91) Dibenzo(a,h)anthracene	16.76	278	8323	2.783	ng	# 86
92) Benzo(g,h,i)perylene	17.19	276	27097	9.577	ng	# 92

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

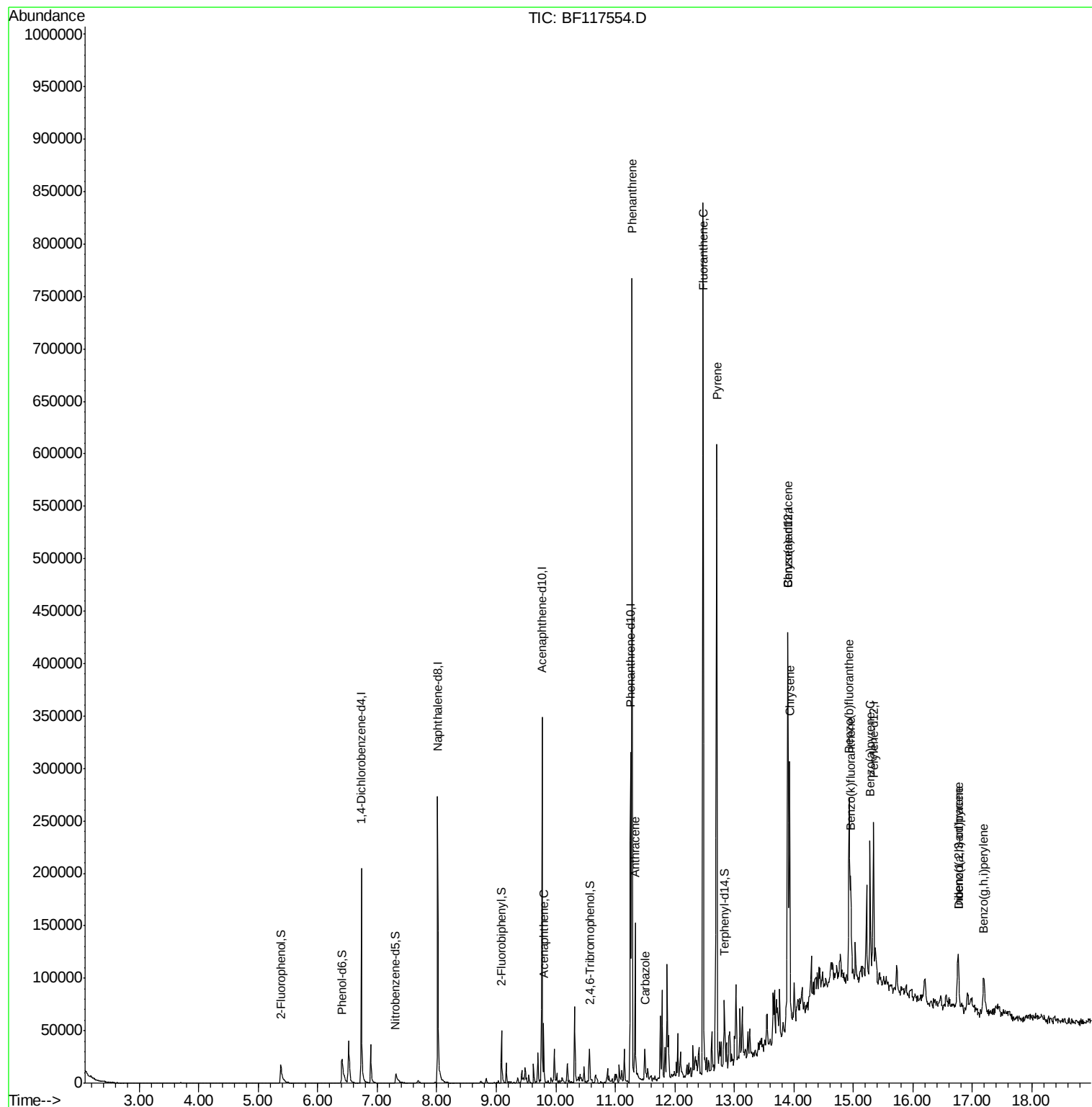
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102519\
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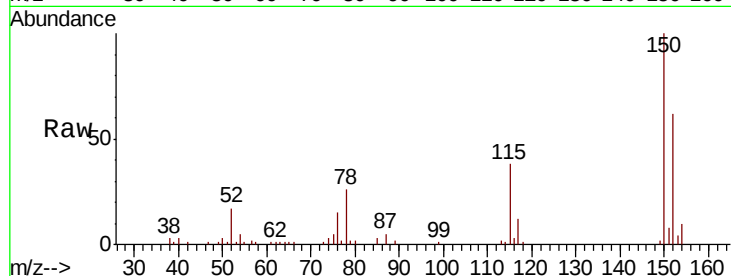
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 790
 Delta R.T. -0.00 min
 Lab File: BF117554.D
 Acq: 25 Oct 2019 23:21

Instrument :
 BNA_F
 ClientSampleId :
 705-81-(0-1)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.6	126.8	190.2
115	61.4	51.6	77.4

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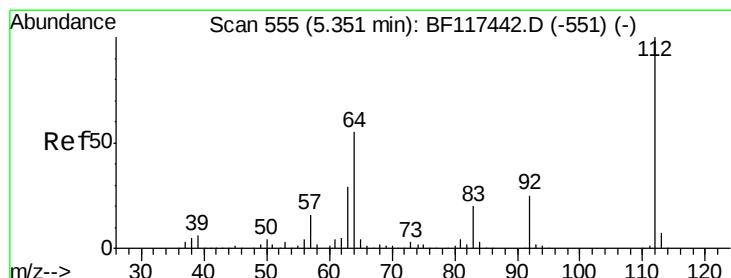
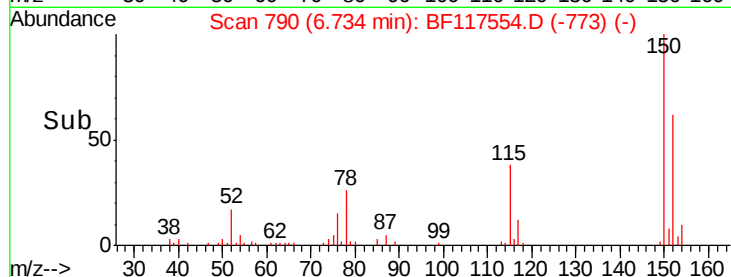
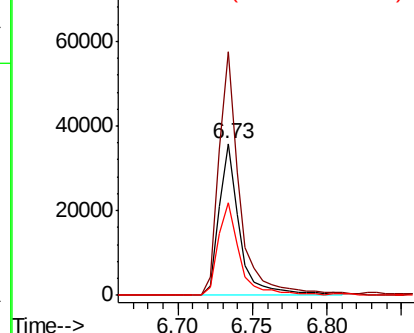


Abundance

Ion 152.00 (151.70 to 152.70): E

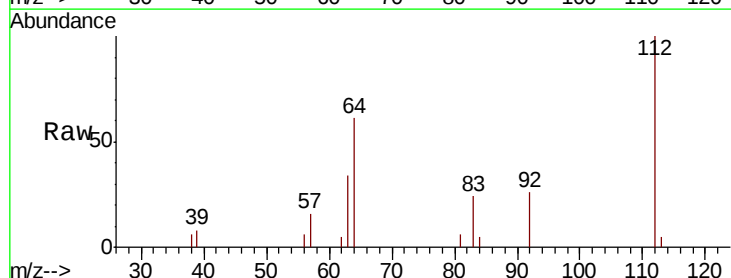
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 6.095 ng
 RT: 5.38 min Scan# 560
 Delta R.T. 0.03 min
 Lab File: BF117554.D
 Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.4	44.1	66.1
63	34.3	23.4	35.2

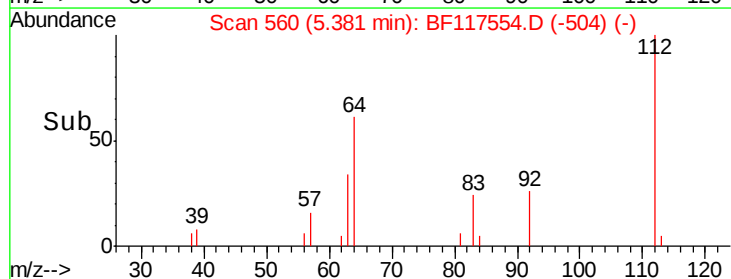
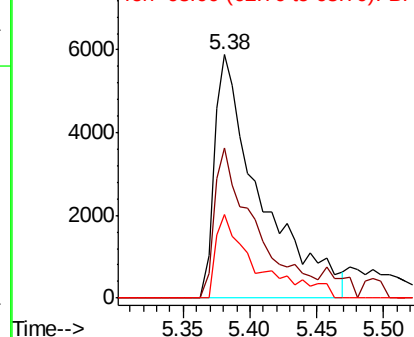


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 7.611 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.03 min

Lab File: BF117554.D

Acq: 25 Oct 2019 23:21

Instrument :

BNA_F

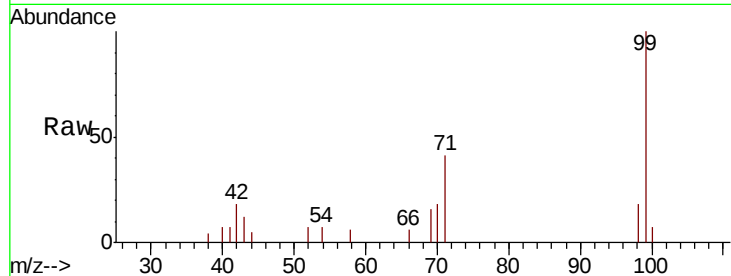
ClientSampleId :

705-81-(0-1)DL

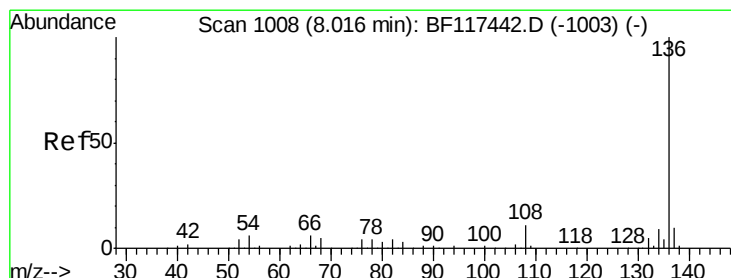
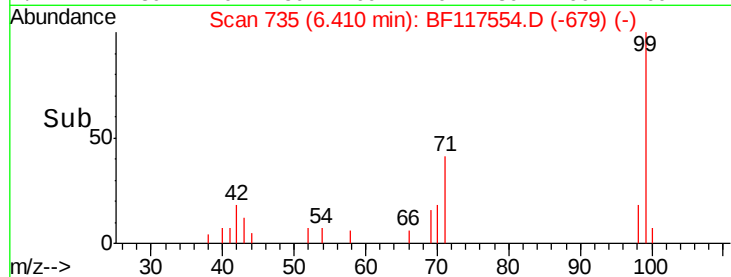
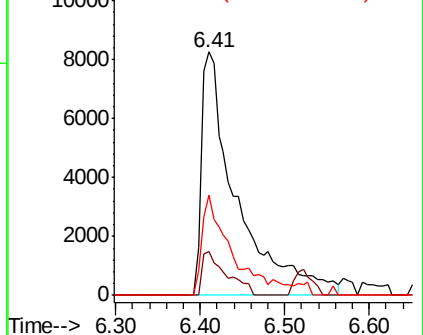
Tot Ion:	99	Resp:	23819
Ion	Ratio	Lower	Upper
99	100		
42	18.3	12.8	19.2
71	41.1	28.6	43.0

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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: 8.02 min Scan# 1008

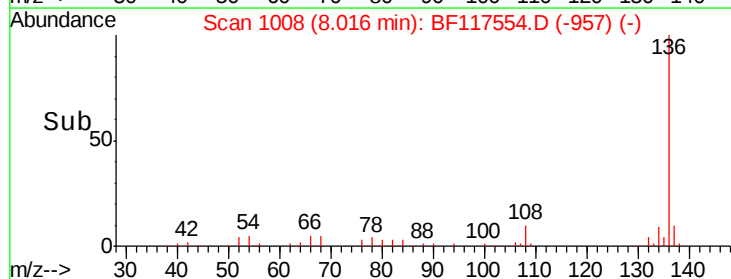
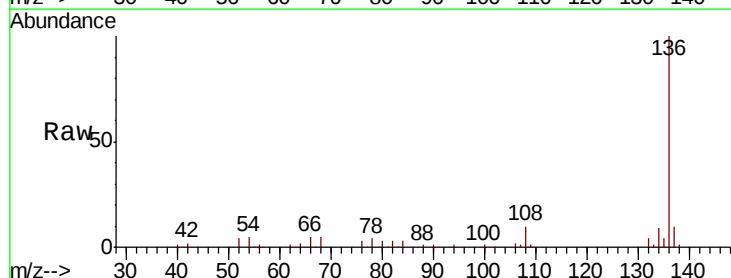
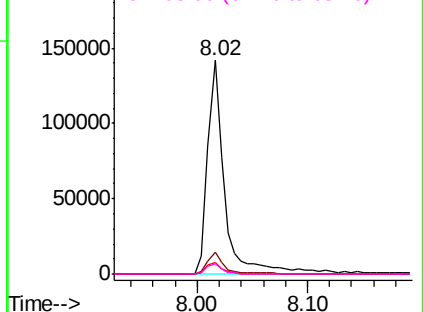
Delta R.T. -0.00 min

Lab File: BF117554.D

Acq: 25 Oct 2019 23:21

Tgt Ion:	136	Resp:	147555
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.2	12.4
54	5.3	4.5	6.7
68	4.8	4.3	6.5

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





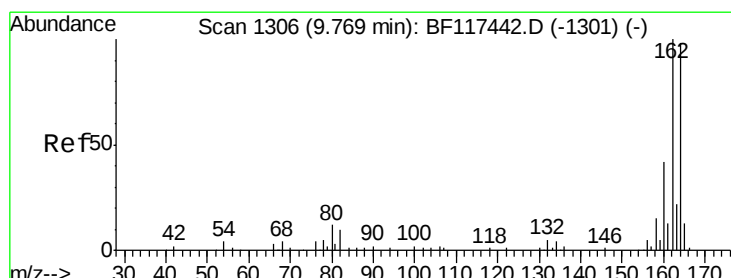
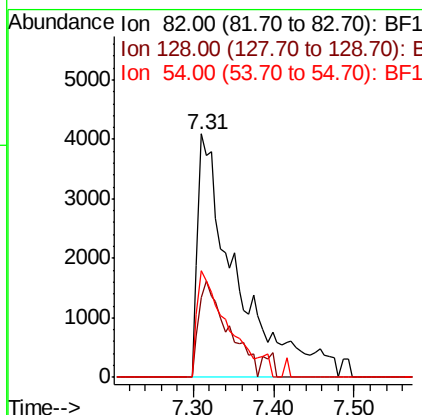
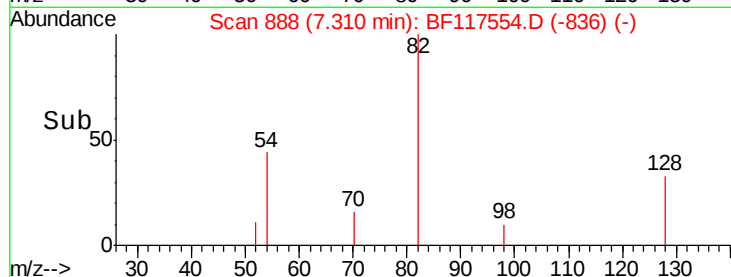
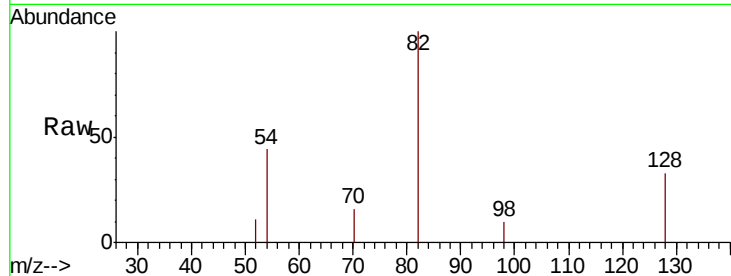
#23
Nitrobenzene-d5
Concen: 4.554 ng m
RT: 7.31 min Scan# 888
Delta R.T. 0.01 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Instrument :
BNA_F
ClientSampleId :
705-81-(0-1)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.0	32.2	48.2
54	43.6	34.2	51.2

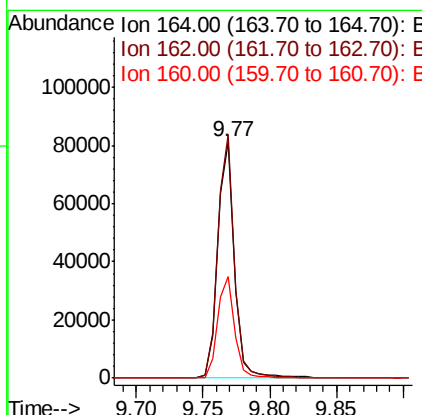
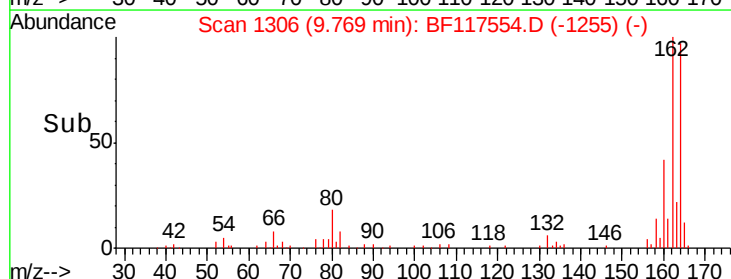
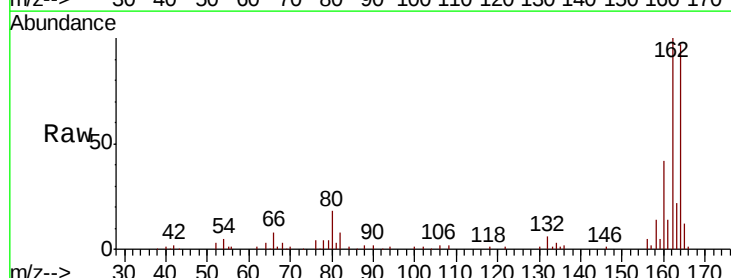
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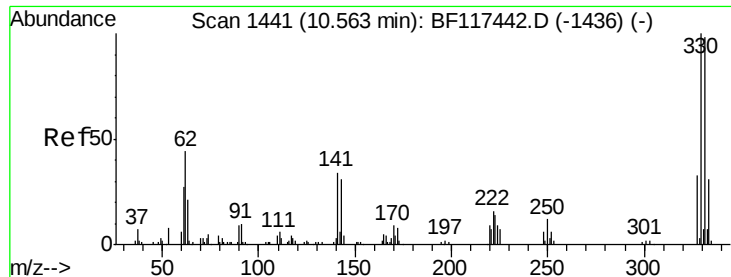
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1306
Delta R.T. -0.00 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	81.8	122.6
160	43.0	34.4	51.6





#42

2,4,6-Tribromophenol

Concen: 5.760 ng

RT: 10.57 min Scan# 1442

Delta R.T. 0.01 min

Lab File: BF117554.D

Acq: 25 Oct 2019 23:21

Instrument :

BNA_F

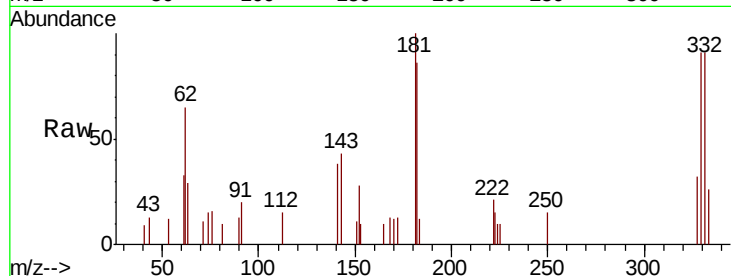
ClientSampleId :

705-81-(0-1)DL

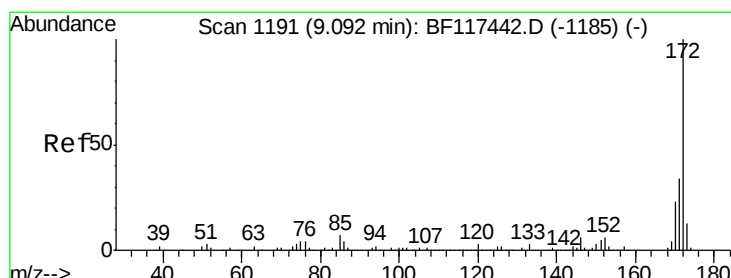
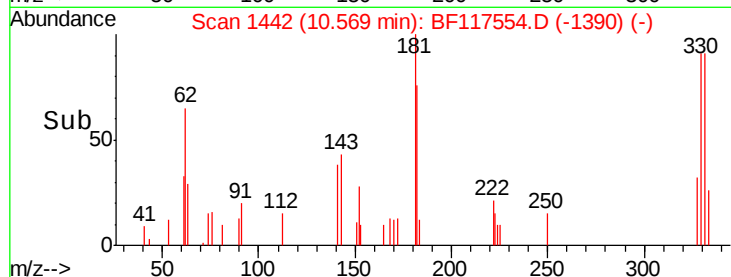
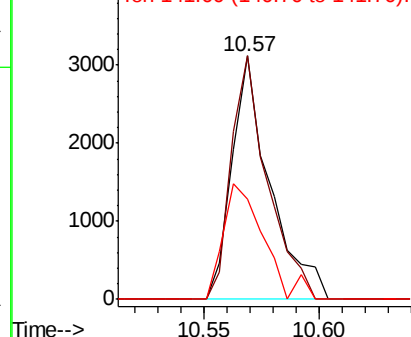
Tot Ion:	330	Resp:	3582
Ion Ratio	Lower	Upper	
330	100		
332	95.0	78.5	117.7
141	50.3	37.0	55.6

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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: 4.353 ng

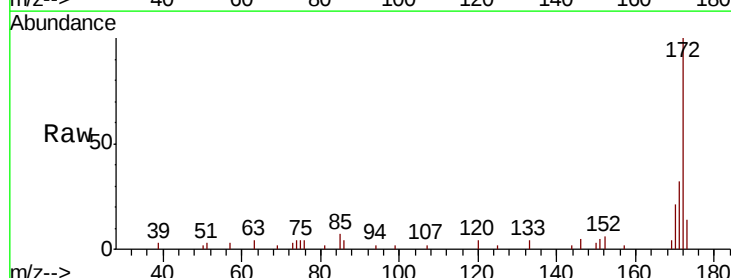
RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

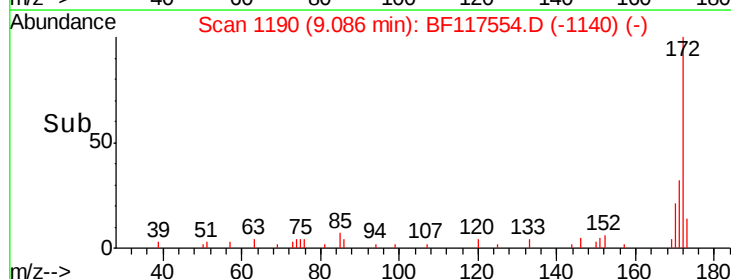
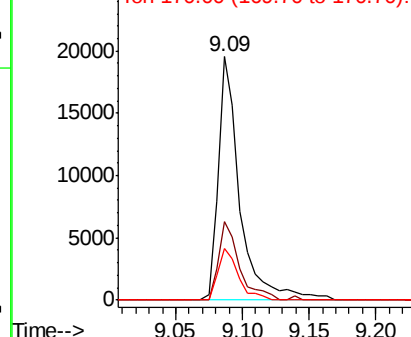
Lab File: BF117554.D

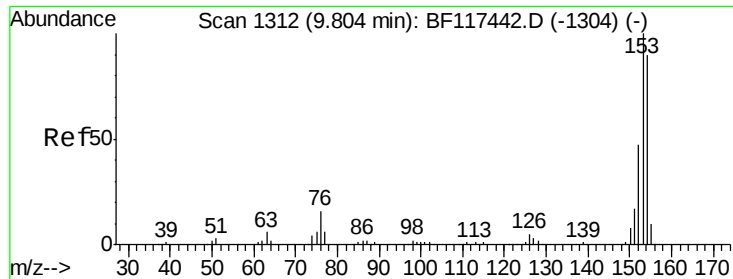
Acq: 25 Oct 2019 23:21

Tgt Ion:	172	Resp:	22204
Ion Ratio	Lower	Upper	
172	100		
171	32.4	27.5	41.3
170	21.1	18.6	27.8



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





#52

Acenaphthene

Concen: 2.976 ng

RT: 9.80 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF117554.D

Acq: 25 Oct 2019 23:21

Instrument :

BNA_F

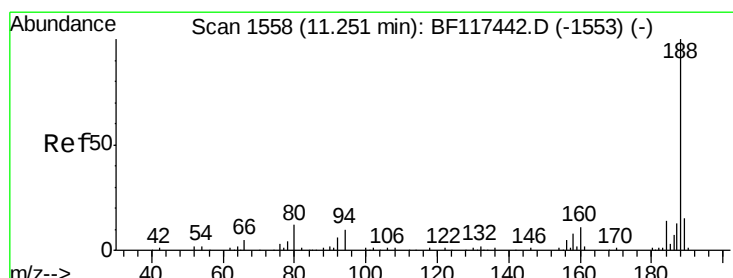
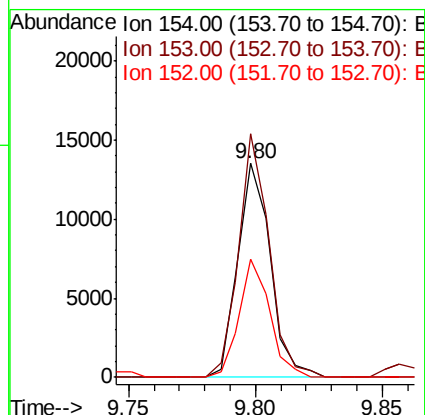
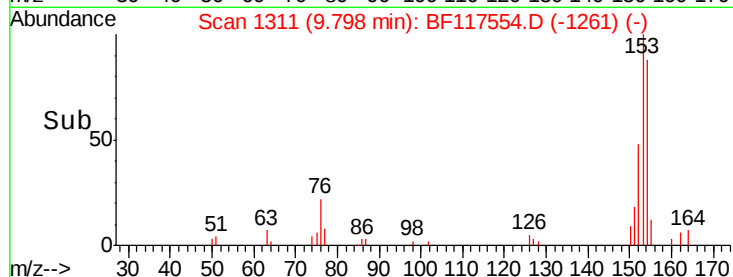
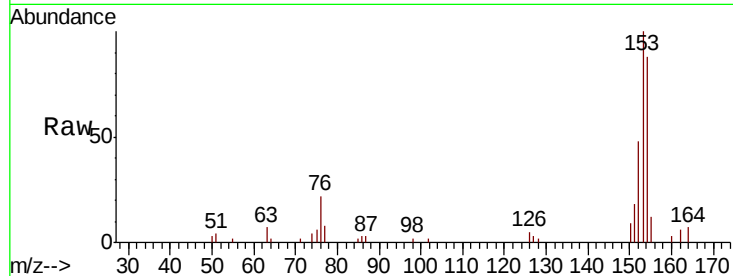
ClientSampleId :

705-81-(0-1)DL

Tot Ion:	154	Resp:	12031
Ion Ratio	Lower	Upper	
154	100		
153	113.7	89.2	133.8
152	55.1	41.8	62.6

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#64

Phenanthrene-d10

Concen: 20.000 ng

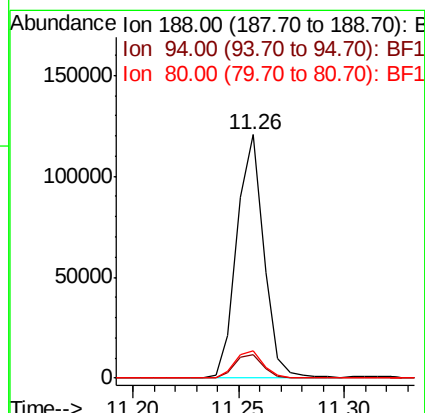
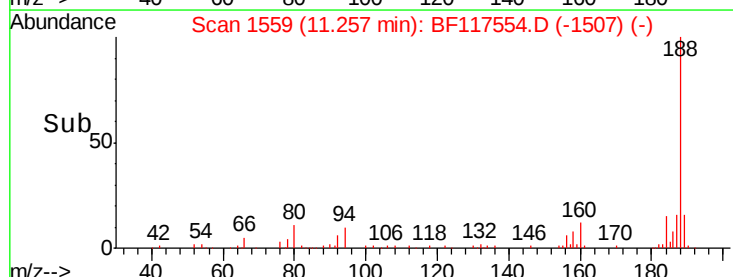
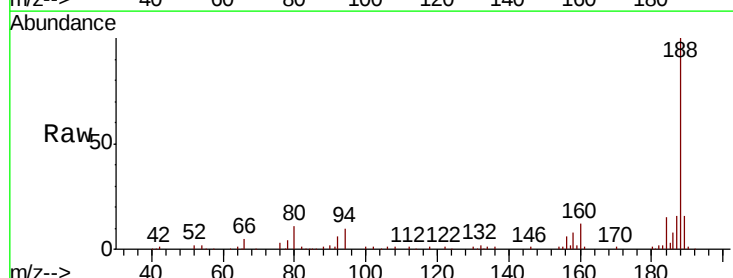
RT: 11.26 min Scan# 1559

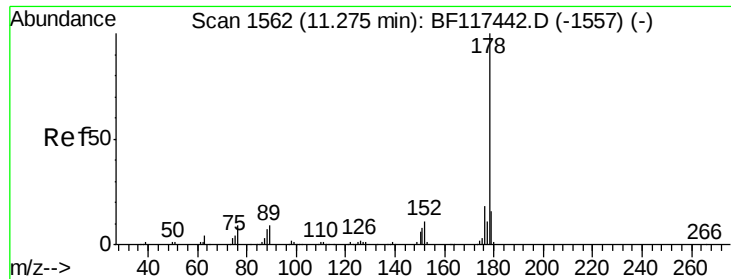
Delta R.T. 0.01 min

Lab File: BF117554.D

Acq: 25 Oct 2019 23:21

Tgt Ion:	188	Resp:	106422
Ion Ratio	Lower	Upper	
188	100		
94	9.7	8.0	12.0
80	11.4	9.5	14.3





#71

Phenanthrene

Concen: 42.197 ng

RT: 11.28 min Scan# 1563

Delta R.T. 0.01 min

Lab File: BF117554.D

Acq: 25 Oct 2019 23:21

Instrument :

BNA_F

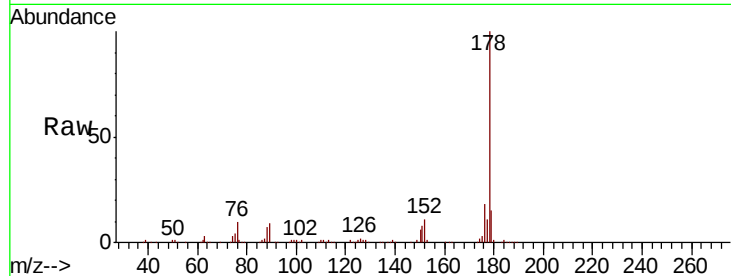
ClientSampleId :

705-81-(0-1)DL

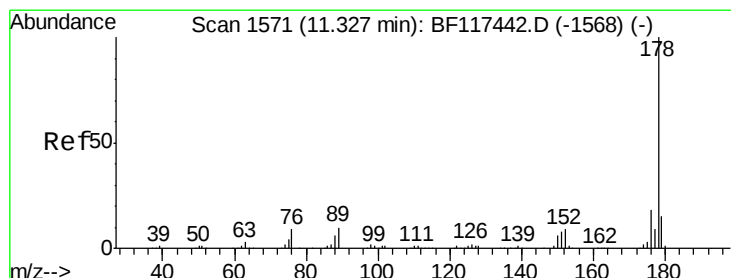
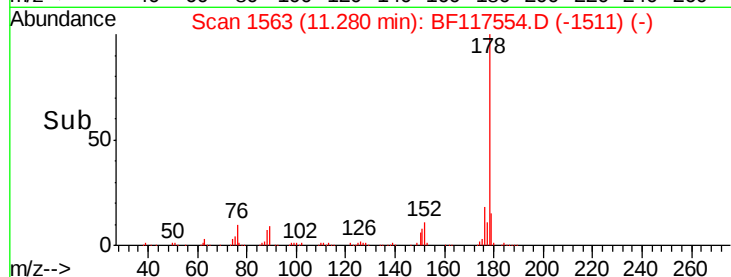
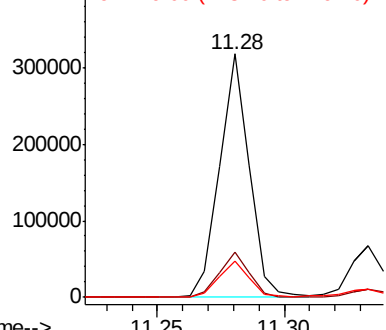
Tot Ion:178	Resp:	260755
Ion Ratio	Lower	Upper
178	100	
176	18.3	14.6 22.0
179	14.9	12.6 19.0

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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: 11.111 ng

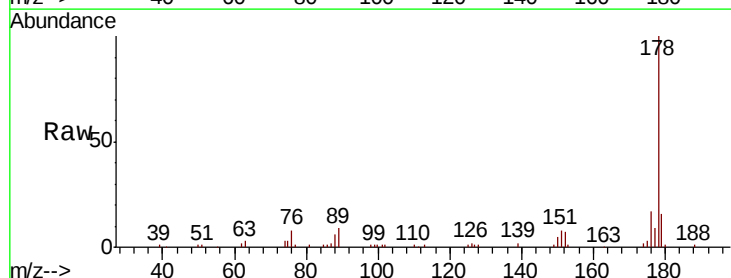
RT: 11.33 min Scan# 1572

Delta R.T. 0.01 min

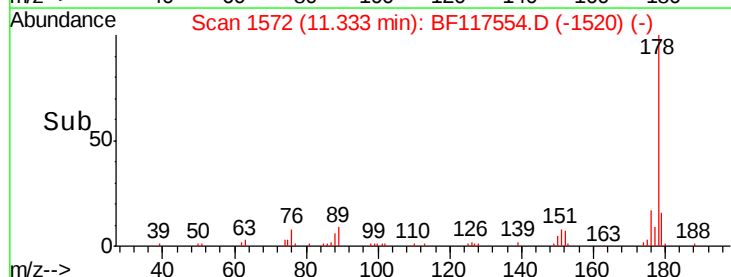
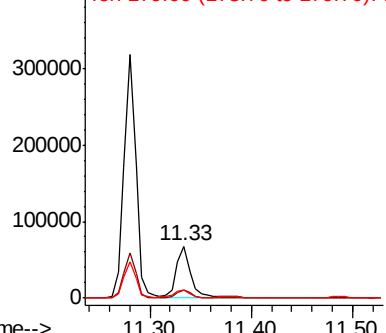
Lab File: BF117554.D

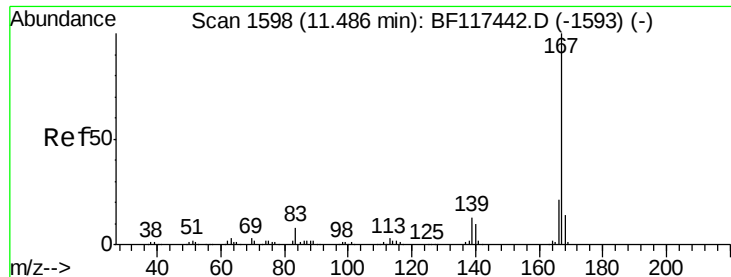
Acq: 25 Oct 2019 23:21

Tgt Ion:178	Resp:	70447
Ion Ratio	Lower	Upper
178	100	
176	16.6	14.7 22.1
179	15.5	12.2 18.2



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





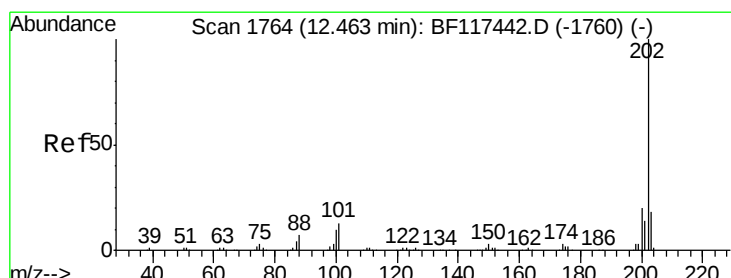
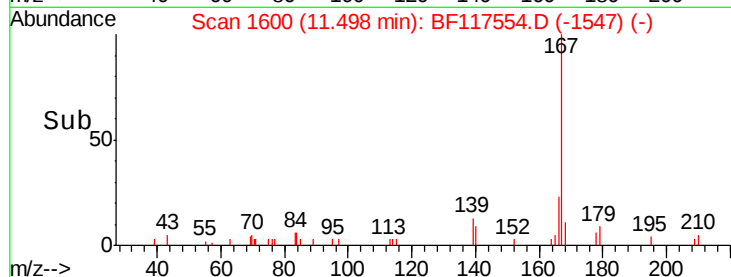
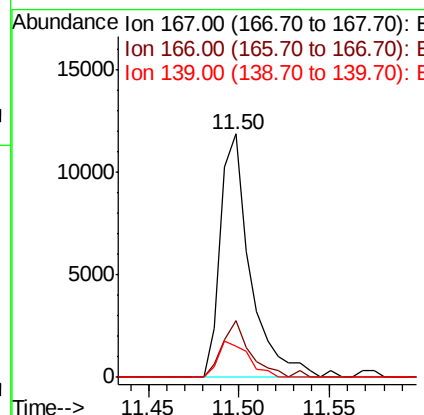
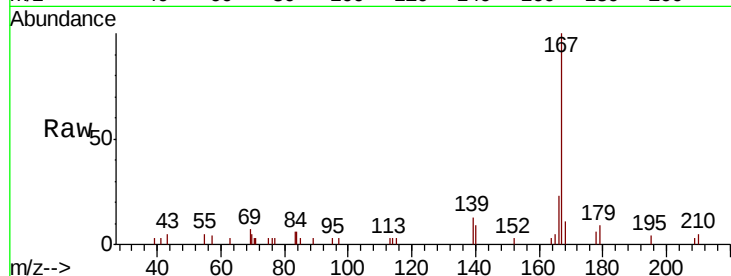
#73
 Carbazole
 Concen: 2.361 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. 0.01 min
 Lab File: BF117554.D
 Acq: 25 Oct 2019 23:21

Instrument :
 BNA_F
 ClientSampleId :
 705-81-(0-1)DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.2	17.0	25.6
139	13.0	10.6	16.0

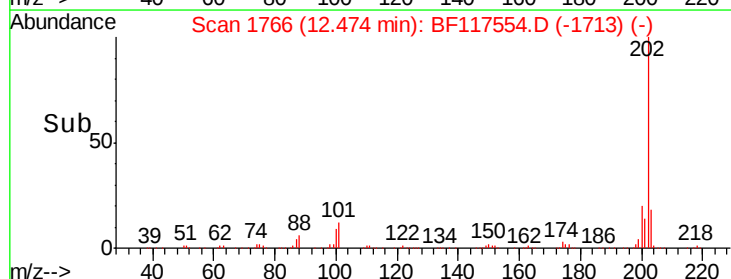
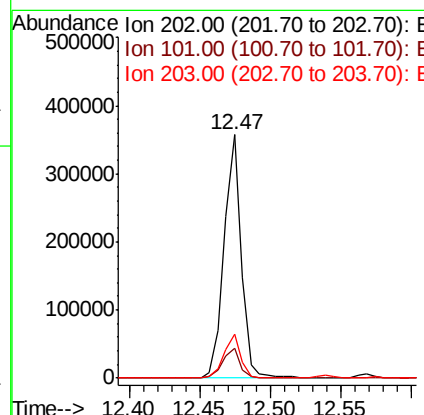
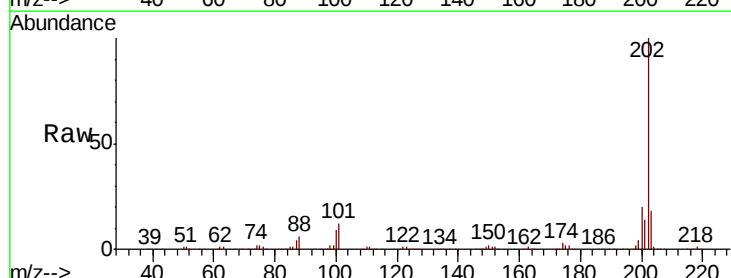
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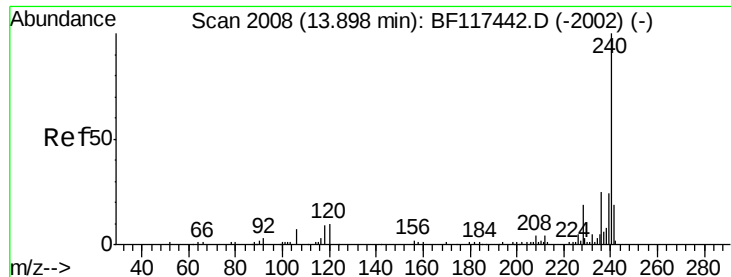
mohammad
 10/30/2019 4:50:53 PM



#75
 Fluoranthene
 Concen: 49.271 ng
 RT: 12.47 min Scan# 1766
 Delta R.T. 0.01 min
 Lab File: BF117554.D
 Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	32.7
203	18.0	0.0	37.6





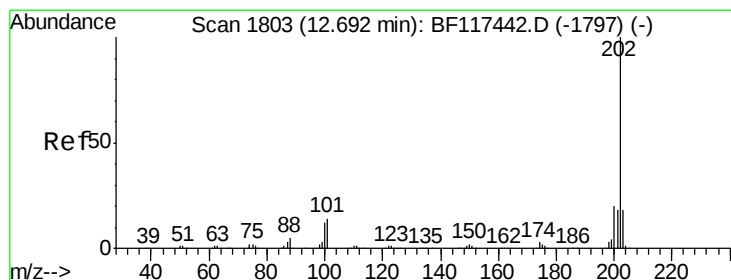
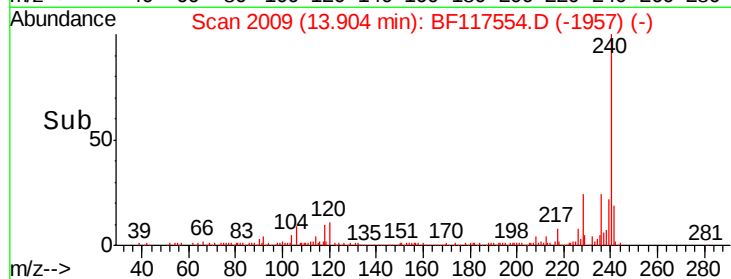
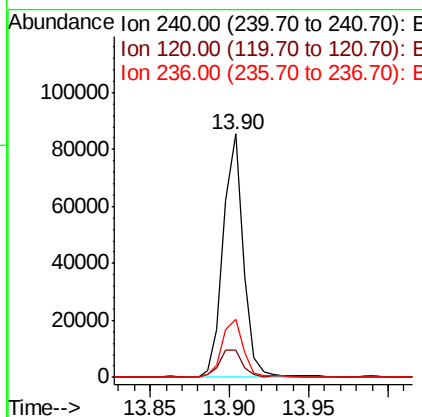
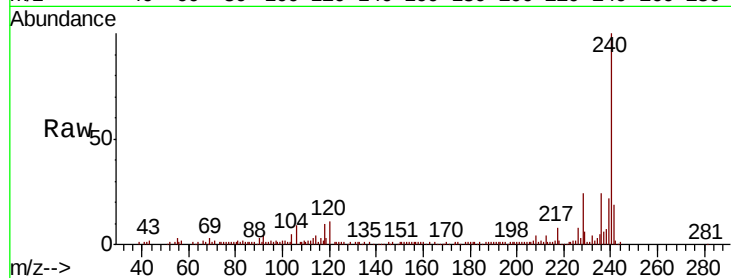
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2009
Delta R.T. 0.01 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Instrument :
BNA_F
ClientSampleId :
705-81-(0-1)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.4	8.4	12.6
236	24.1	20.0	30.0

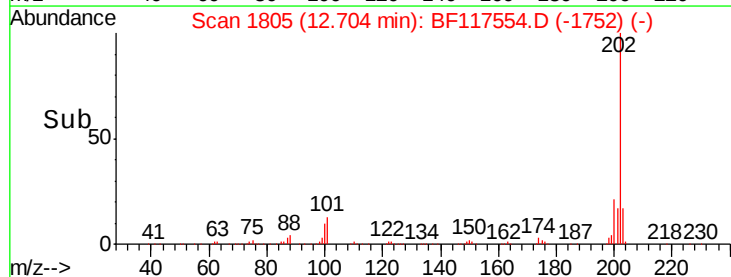
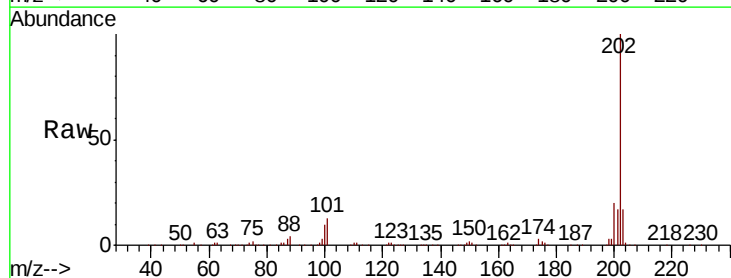
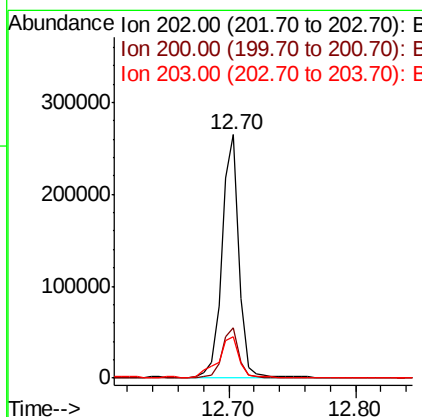
Manual Integrations
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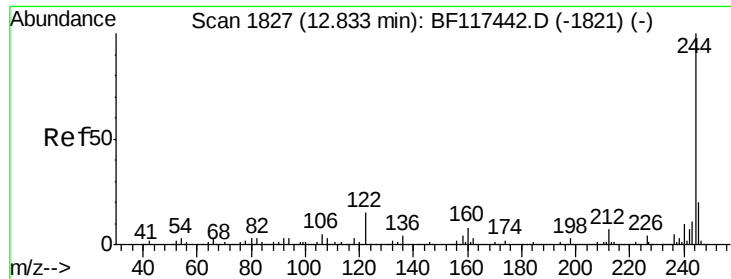
mohammad
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#78
Pyrene
Concen: 37.841 ng
RT: 12.70 min Scan# 1805
Delta R.T. 0.01 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.2	24.2
203	17.2	14.0	21.0





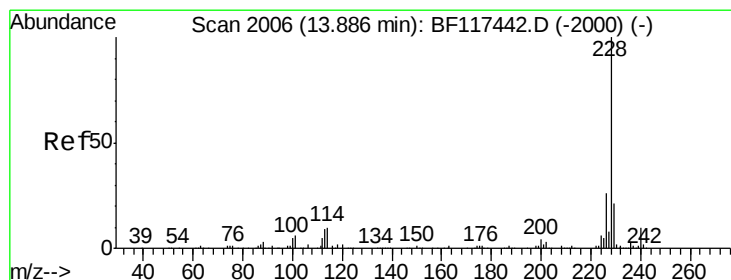
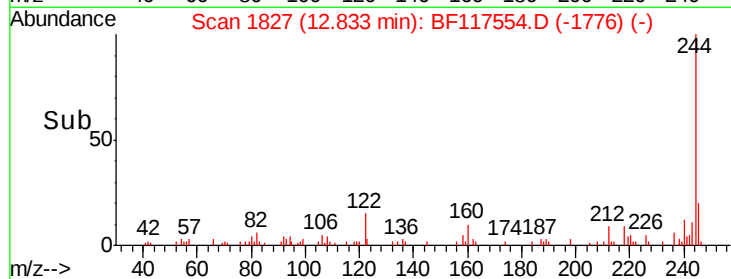
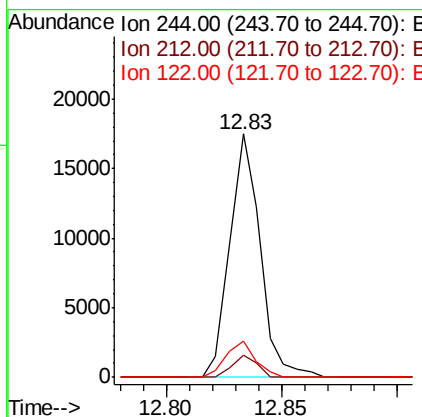
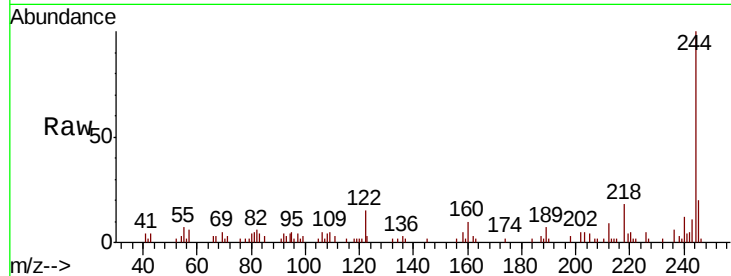
#79
 Terphenyl-d14
 Concen: 3.455 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. -0.00 min
 Lab File: BF117554.D
 Acq: 25 Oct 2019 23:21

Instrument :
 BNA_F
 ClientSampleId :
 705-81-(0-1)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
244	100		16044		
212	9.3	5.8	8.6#		
122	15.1	11.8	17.8		

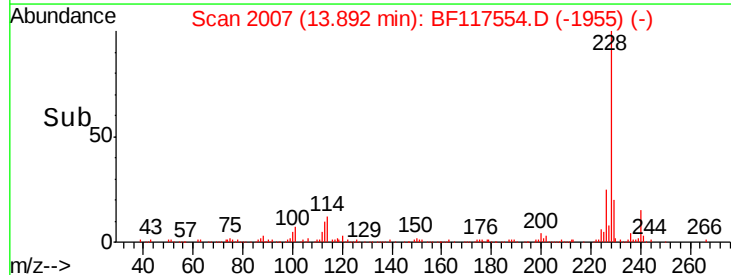
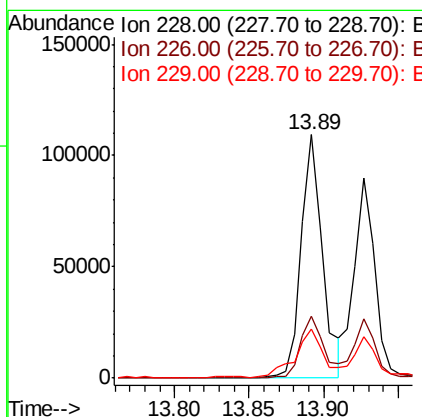
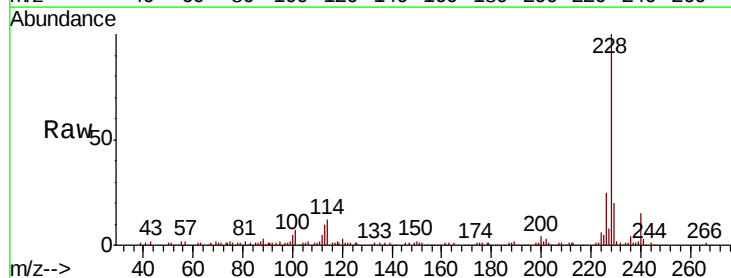
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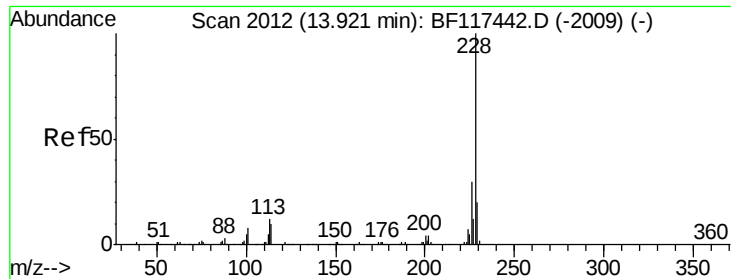
mohammad
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#81
 Benzo(a)anthracene
 Concen: 21.620 ng
 RT: 13.89 min Scan# 2007
 Delta R.T. 0.01 min
 Lab File: BF117554.D
 Acq: 25 Oct 2019 23:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
228	100		110470		
226	25.4	21.0	31.4		
229	20.2	16.4	24.6		





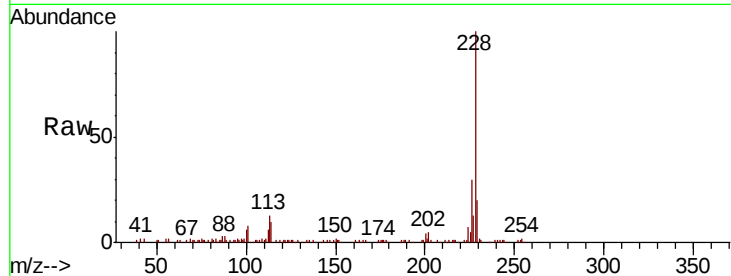
#83
Chrysene
Concen: 17.565 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Instrument :
BNA_F
ClientSampleId :
705-81-(0-1)DL

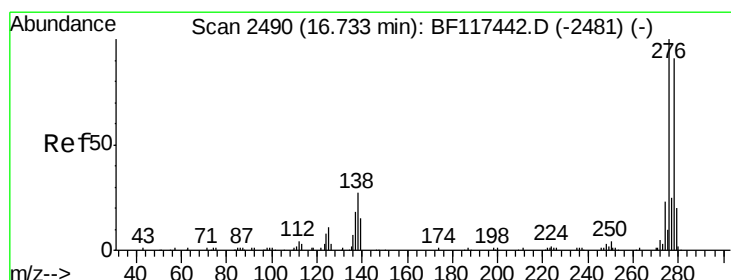
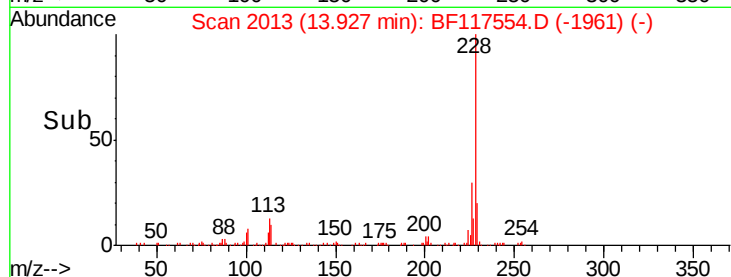
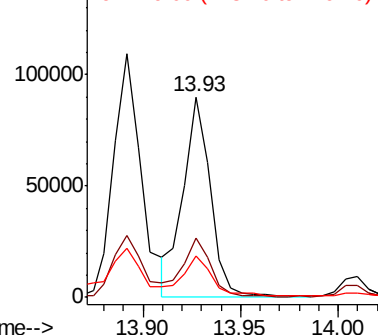
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.9	35.9
229	20.4	15.8	23.6

Manual Integrations
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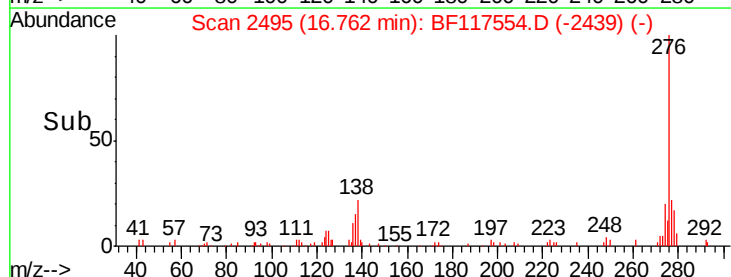
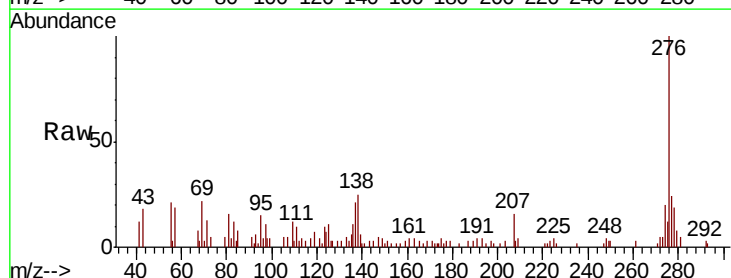
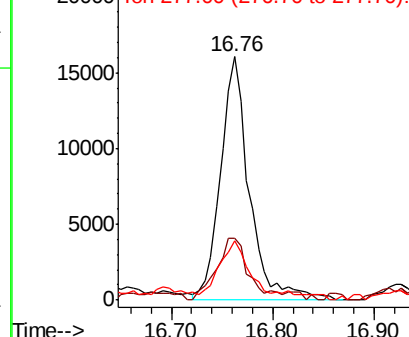
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

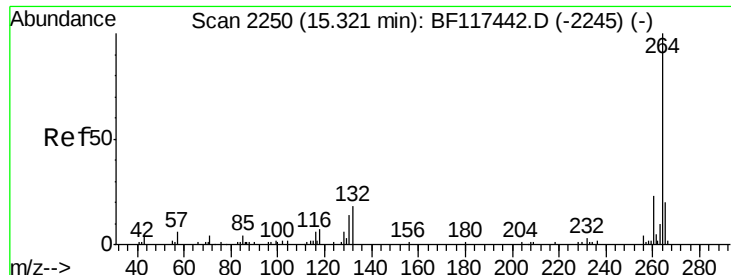


#86
Indeno(1,2,3-cd)pyrene
Concen: 8.461 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.03 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.5	21.8	32.8
277	20.4	20.0	30.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





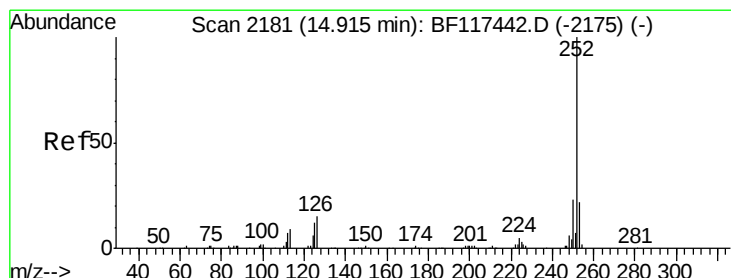
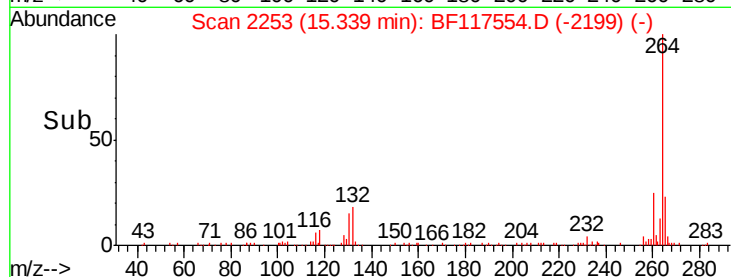
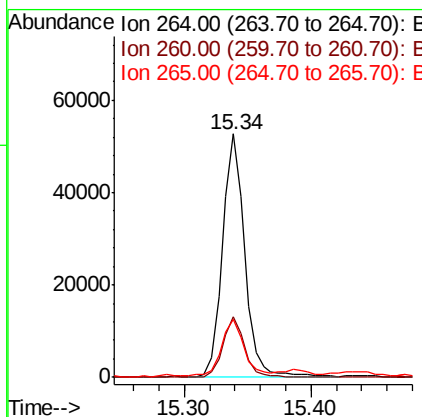
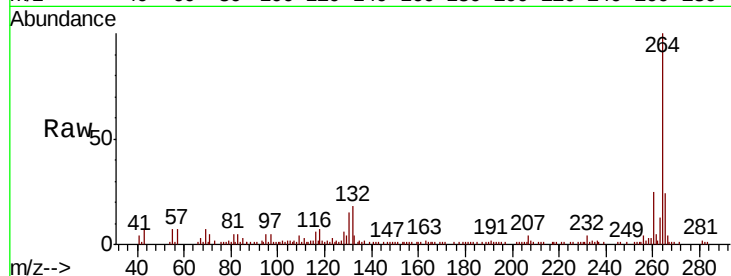
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Instrument :
BNA_F
ClientSampleId :
705-81-(0-1)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	18.4	27.6
265	23.9	16.1	24.1

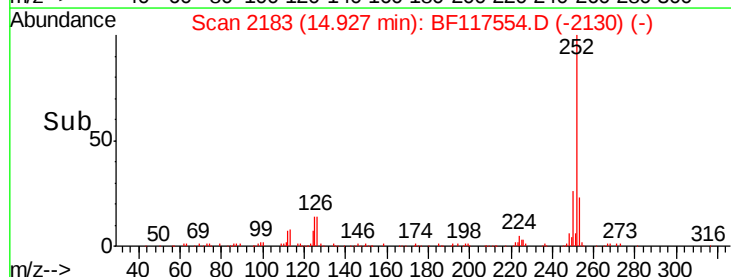
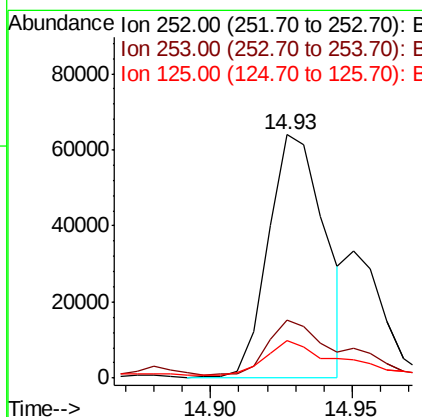
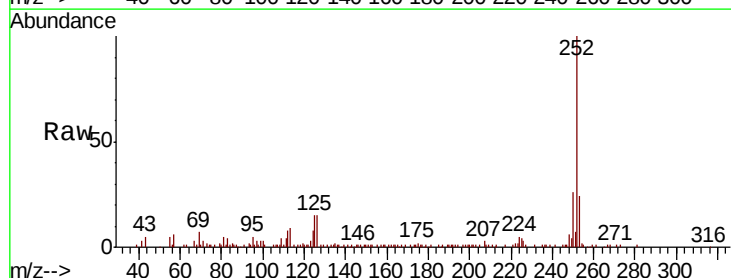
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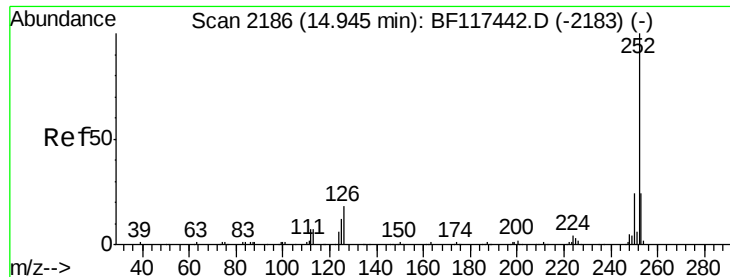
mohammad
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#88
Benzo(b)fluoranthene
Concen: 23.451 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	15.3	9.9	14.9#





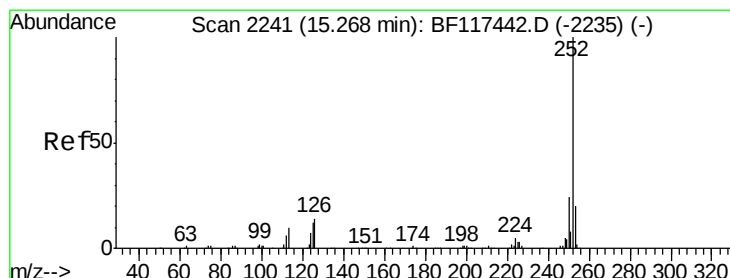
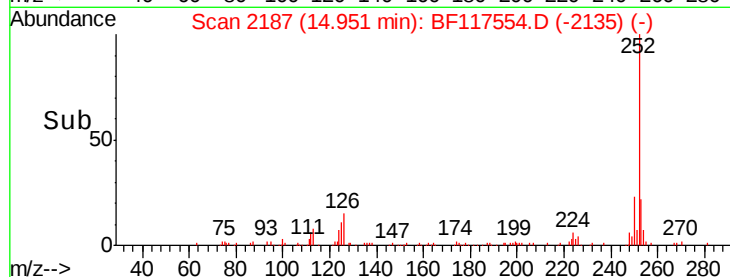
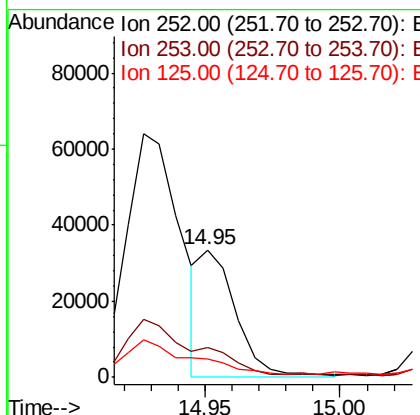
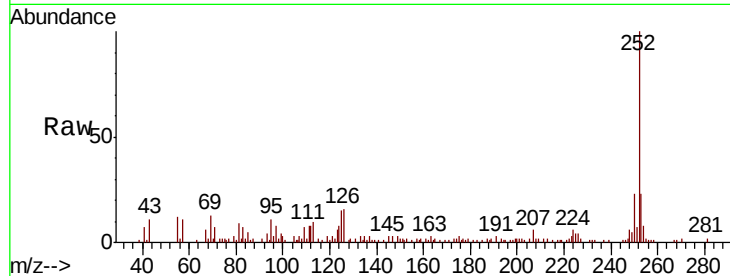
#89
Benzo(k)fluoranthene
Concen: 7.966 ng m
RT: 14.95 min Scan# 2187
Delta R.T. 0.01 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Instrument :
BNA_F
ClientSampleId :
705-81-(0-1)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	14.5	8.9	13.3

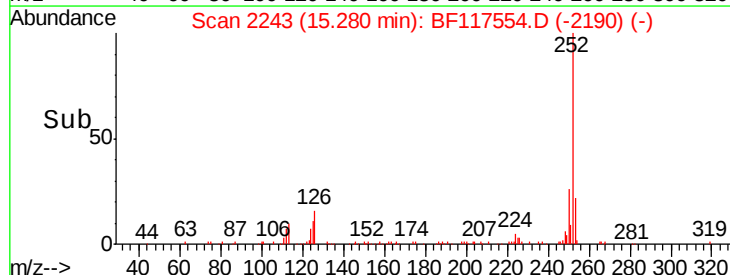
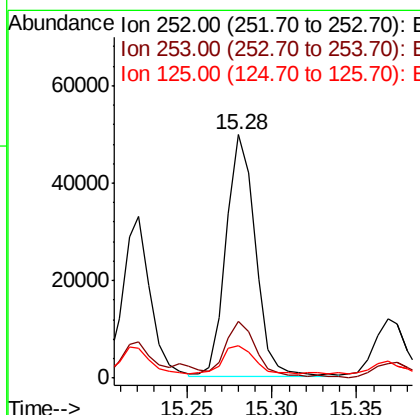
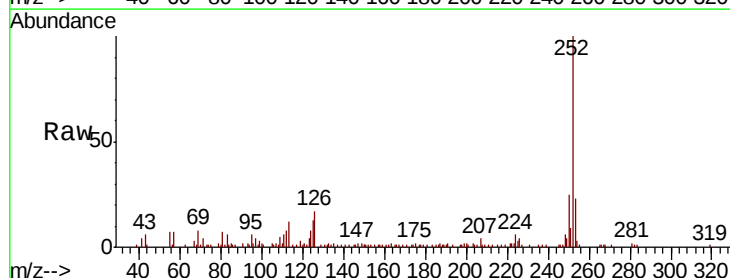
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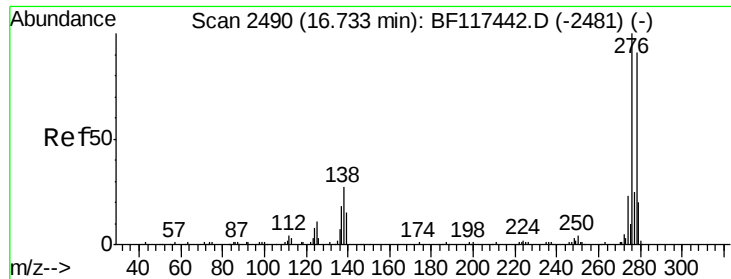
mohammad
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#90
Benzo(a)pyrene
Concen: 17.306 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	16.3	24.5
125	13.4	9.2	13.8





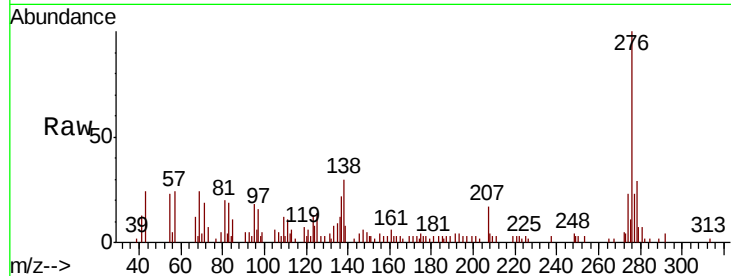
#91
Dibenzo(a,h)anthracene
Concen: 2.783 ng
RT: 16.76 min Scan# 2494
Delta R.T. 0.02 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Instrument :
BNA_F
ClientSampleId :
705-81-(0-1)DL

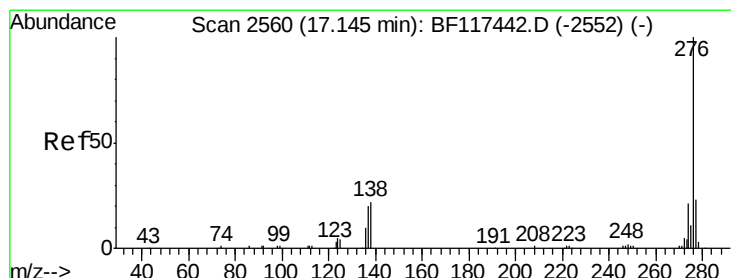
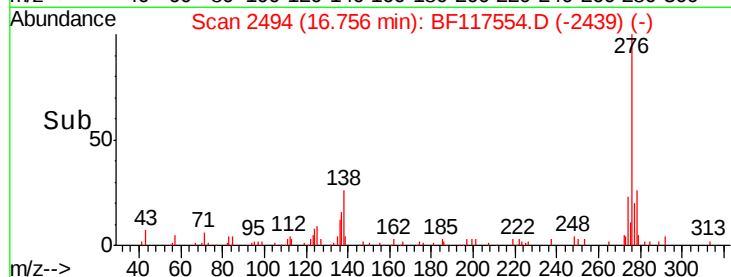
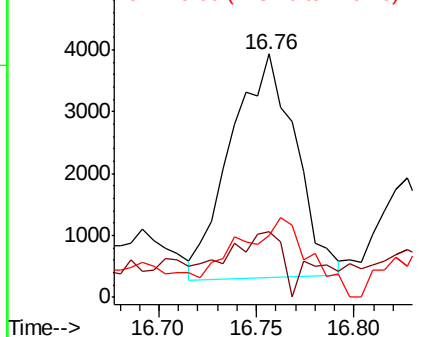
Tot Ion	Ratio	Lower	Upper
278	100		
139	26.9	13.4	20.0#
279	25.3	17.8	26.6

Manual Integrations
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Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 9.577 ng
RT: 17.19 min Scan# 2568
Delta R.T. 0.05 min
Lab File: BF117554.D
Acq: 25 Oct 2019 23:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.4	27.6
138	27.6	17.8	26.6#

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

