

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
 Data File : BF117670.D
 Acq On : 31 Oct 2019 20:40
 Operator : JU
 Sample : K5503-03DL 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 175-70-(0-2.5)DL

Manual Integrations
 APPROVED

mohammad
 11/1/2019 12:34:52 PM

Quant Time: Nov 01 02:19:15 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	35246	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	156081	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	76668	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	105932	20.00	ng	0.00
76) Chrysene-d12	13.90	240	74651	20.00	ng	0.00
87) Perylene-d12	15.34	264	72938	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	20114	8.49	ng	0.05
7) Phenol-d6	6.42	99	30773	9.67	ng	0.04
23) Nitrobenzene-d5	7.32	82	22016	6.96	ng	0.02
42) 2,4,6-Tribromophenol	10.57	330	5212	7.86	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	35302	6.49	ng	0.00
79) Terphenyl-d14	12.83	244	33434	7.31	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.03	128	28356	3.665	ng	98
37) 2-Methylnaphthalene	8.74	142	10711	2.055	ng	91
52) Acenaphthene	9.79	154	20296	4.706	ng	96
55) Dibenzofuran	9.97	168	27937	4.471	ng	98
58) Fluorene	10.32	166	29015	5.615	ng	96
71) Phenanthrene	11.27	178	294223	47.833	ng	99
72) Anthracene	11.33	178	72327m	11.460	ng	
73) Carbazole	11.50	167	25735	4.462	ng	97
75) Fluoranthene	12.47	202	248552	40.364	ng	98
78) Pyrene	12.70	202	196375	30.626	ng	99
81) Benzo(a)anthracene	13.89	228	87498	17.376	ng	98
83) Chrysene	13.93	228	77300	15.663	ng	98
86) Indeno(1,2,3-cd)pyrene	16.77	276	26767	7.265	ng	98
88) Benzo(b)fluoranthene	14.93	252	74929m	17.397	ng	
89) Benzo(k)fluoranthene	14.95	252	24448m	5.538	ng	
90) Benzo(a)pyrene	15.28	252	51069	13.041	ng	97
91) Dibenzo(a,h)anthracene	16.76	278	7560	2.233	ng	# 82
92) Benzo(g,h,i)perylene	17.20	276	22515	7.028	ng	# 92

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

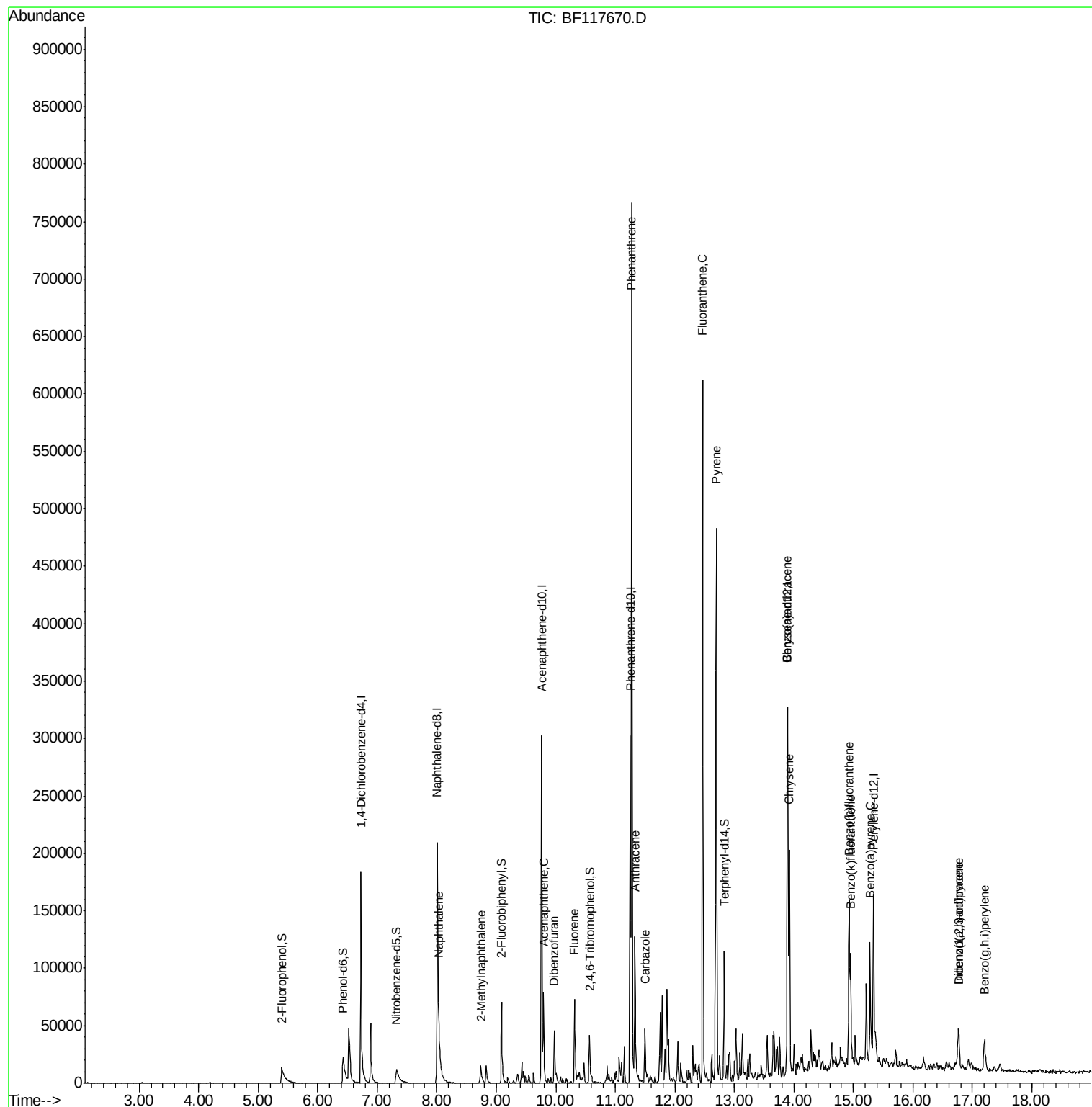
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
Data File : BF117670.D
Acq On : 31 Oct 2019 20:40
Operator : JU
Sample : K5503-03DL 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

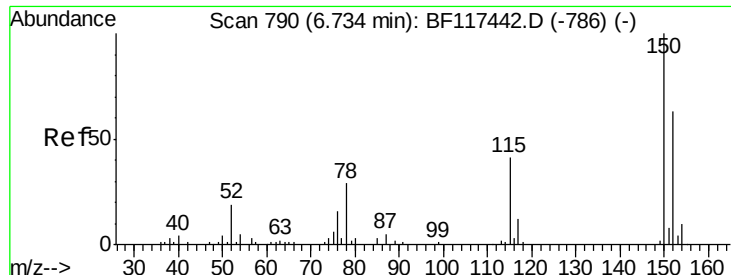
Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:52 PM

Quant Time: Nov 01 02:19:15 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





#1

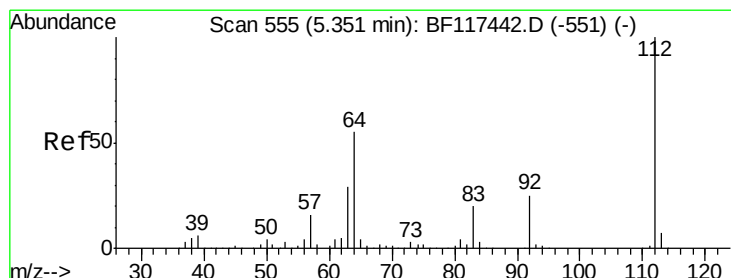
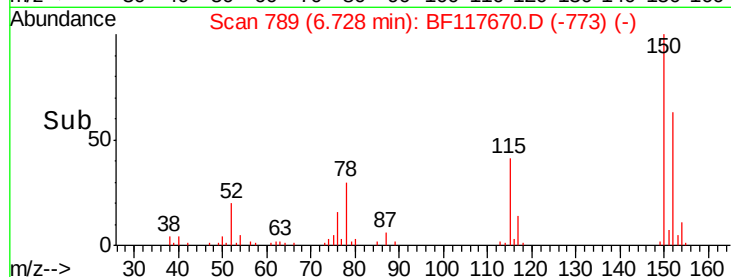
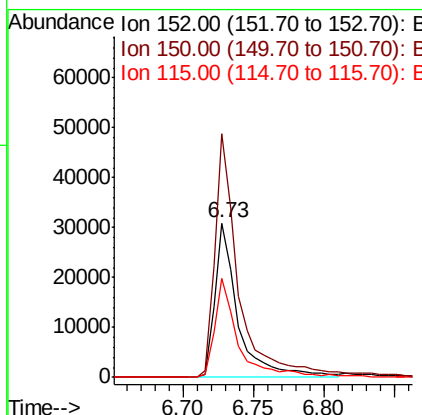
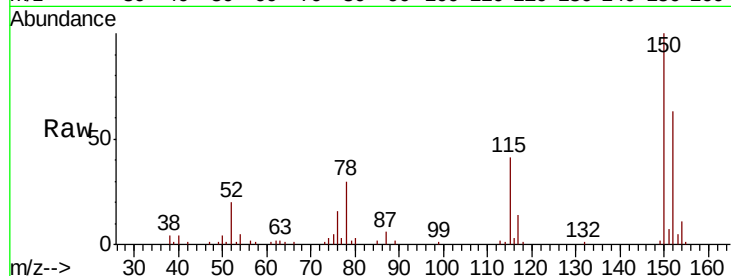
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	126.8	190.2
115	64.0	51.6	77.4

Manual Integrations
APPROVED

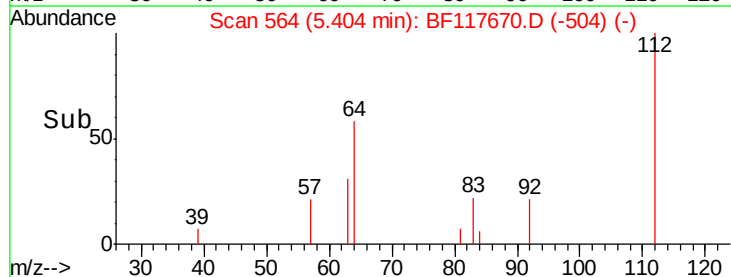
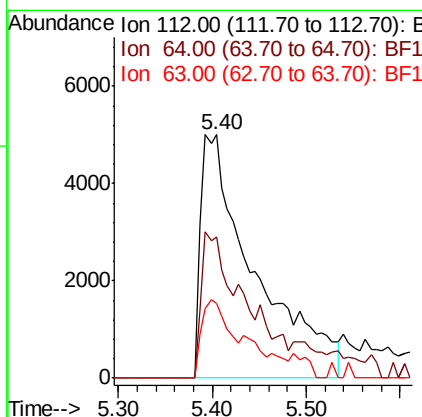
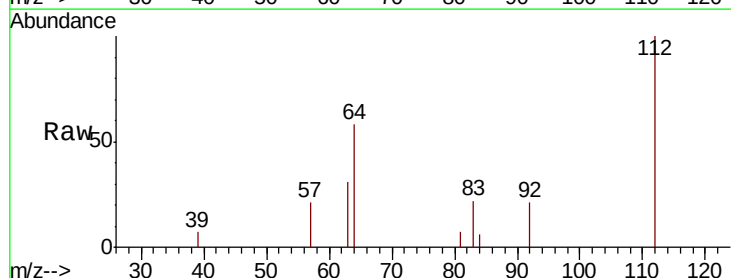
mohammad
11/1/2019 12:34:52 PM

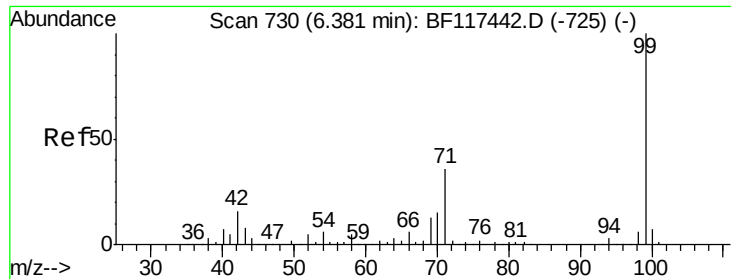


#5

2-Fluorophenol
Concen: 8.490 ng
RT: 5.40 min Scan# 564
Delta R.T. 0.05 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	44.1	66.1
63	30.8	23.4	35.2





#7

Phenol-d6

Concen: 9.671 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.04 min

Lab File: BF117670.D

Acq: 31 Oct 2019 20:40

Instrument :

BNA_F

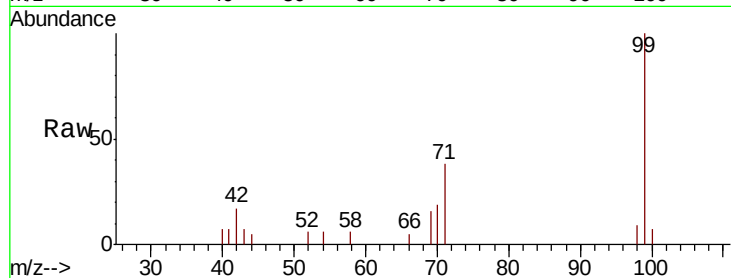
ClientSampleId :

175-70-(0-2.5)DL

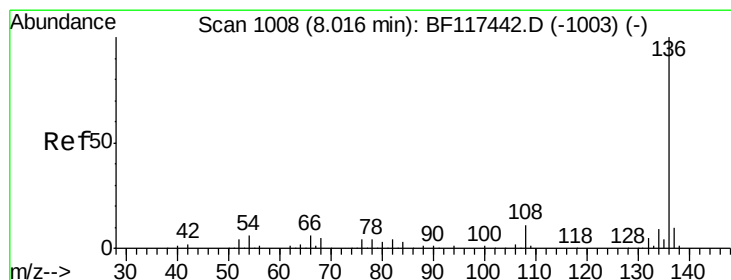
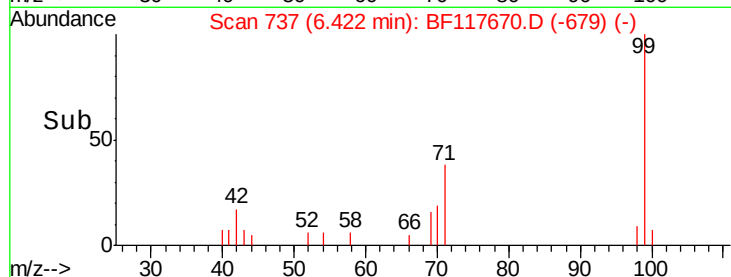
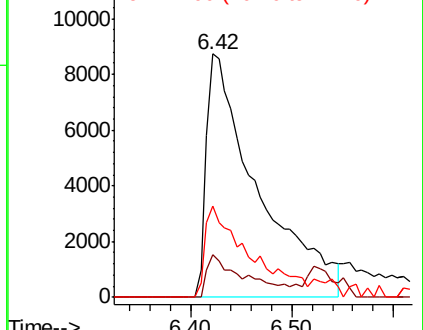
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		30773		
42	17.3	12.8	19.2		
71	37.7	28.6	43.0		

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:52 PM



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: 8.01 min Scan# 1007

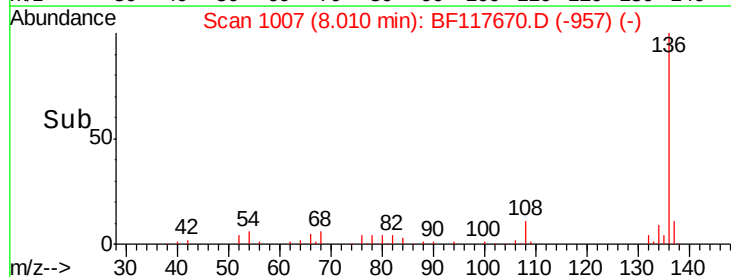
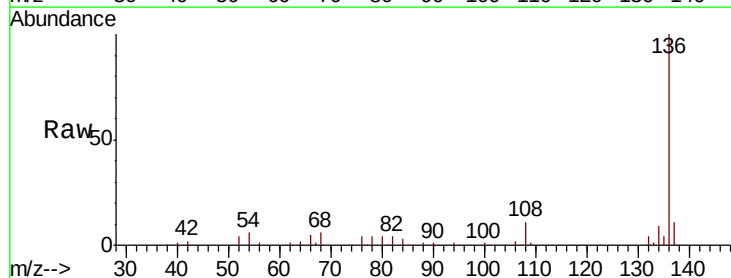
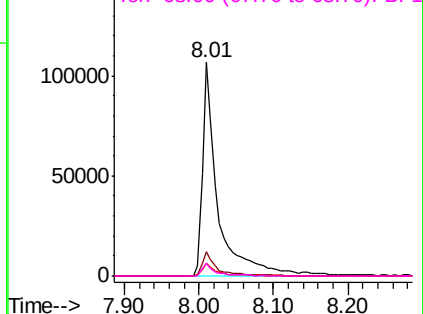
Delta R.T. -0.01 min

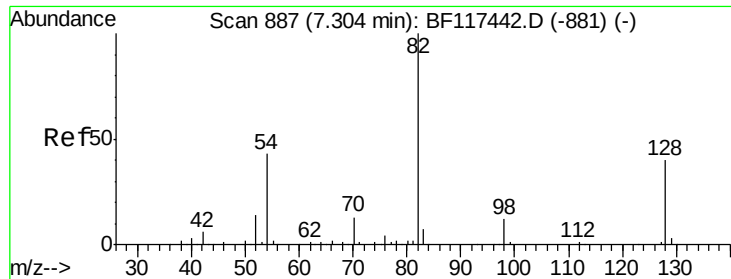
Lab File: BF117670.D

Acq: 31 Oct 2019 20:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		156081		
137	11.3	8.2	12.4		
54	5.9	4.5	6.7		
68	6.0	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





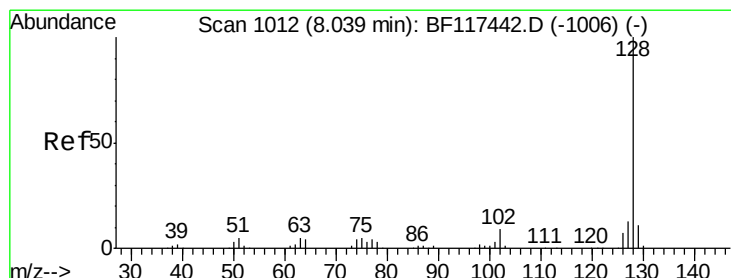
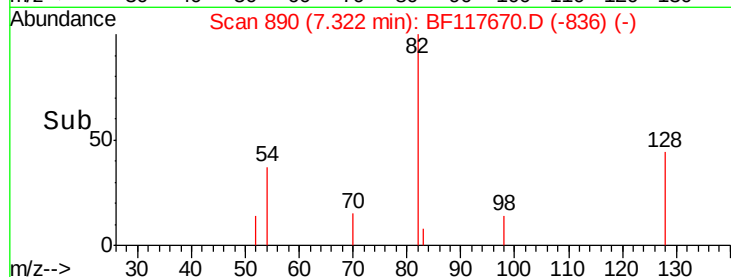
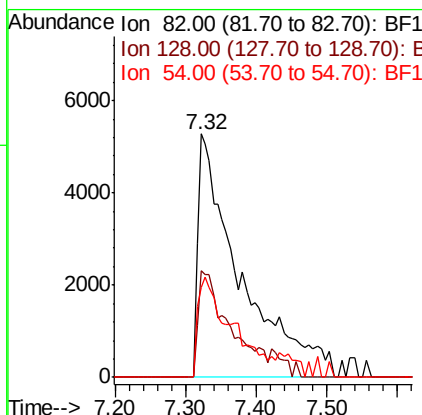
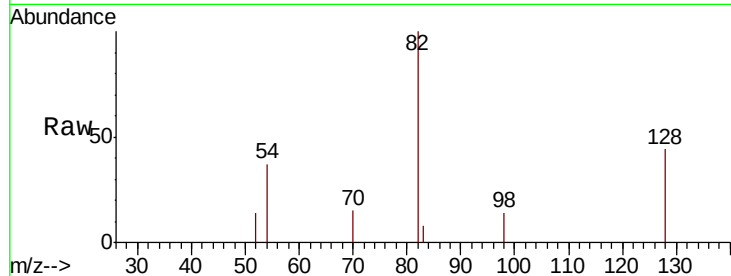
#23
Nitrobenzene-d5
Concen: 6.964 ng
RT: 7.32 min Scan# 890
Delta R.T. 0.02 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.9	32.2	48.2
54	36.9	34.2	51.2

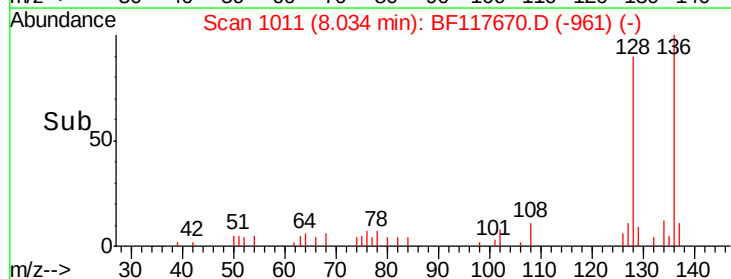
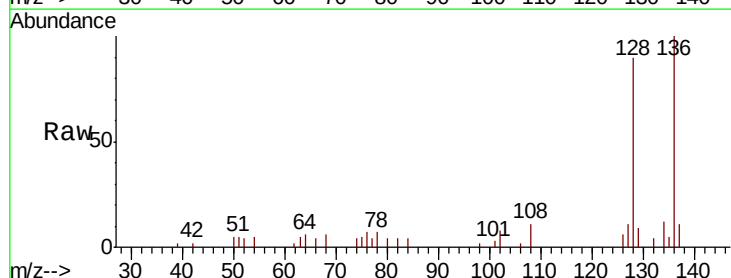
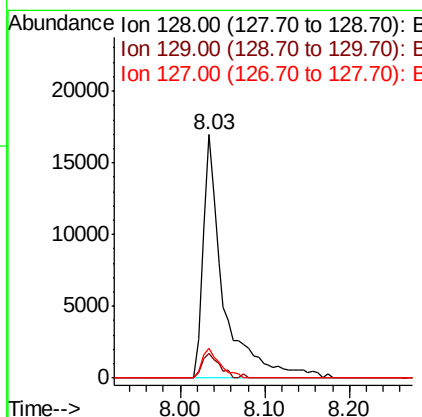
Manual Integrations
APPROVED

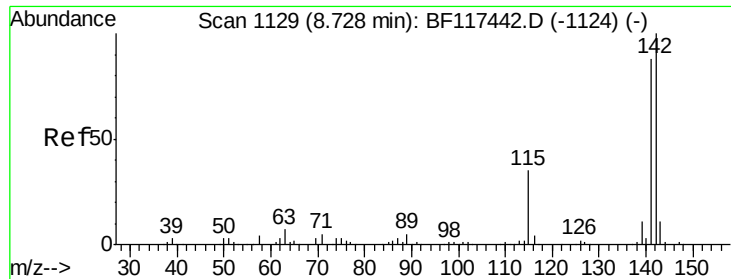
mohammad
11/1/2019 12:34:52 PM



#31
Naphthalene
Concen: 3.665 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.1	9.0	13.4
127	12.2	10.2	15.2





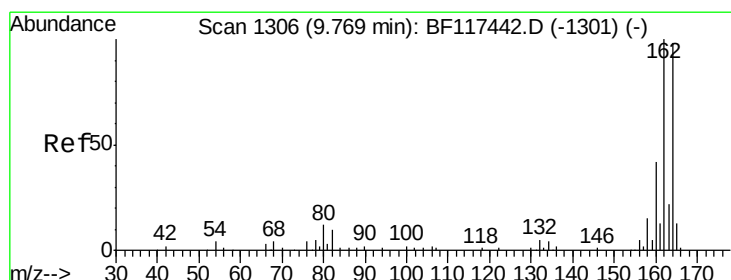
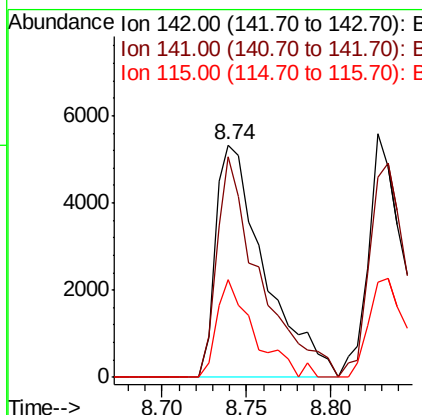
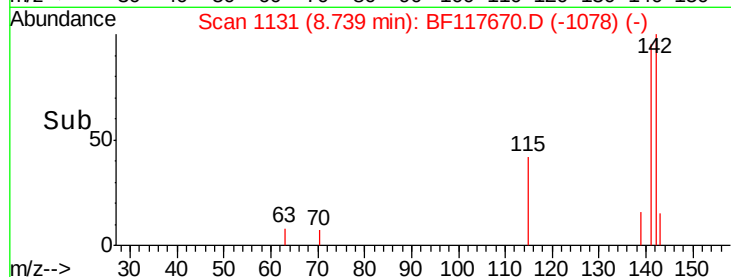
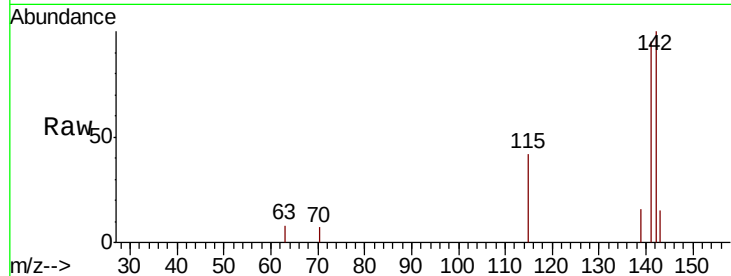
#37
2-Methylnaphthalene
Concen: 2.055 ng
RT: 8.74 min Scan# 1131
Delta R.T. 0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.8	70.3	105.5
115	41.9	28.2	42.2

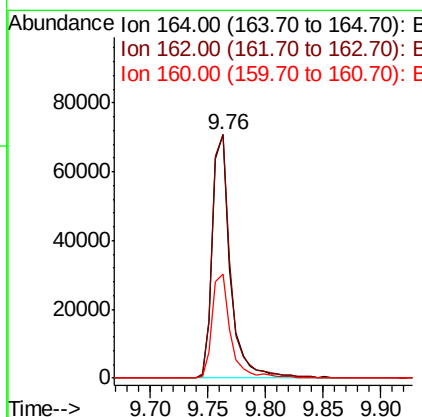
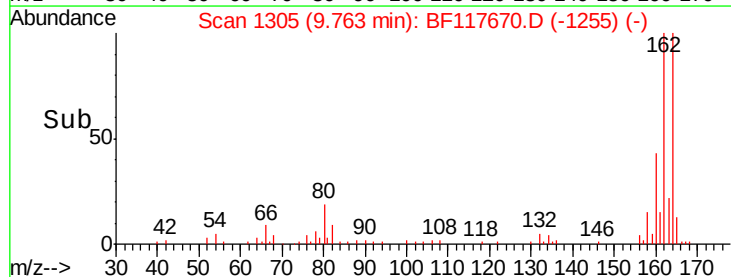
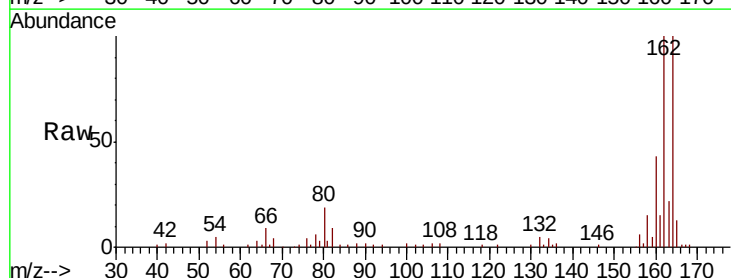
Manual Integrations
APPROVED

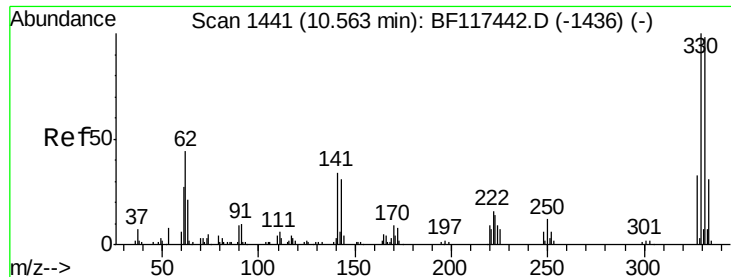
mohammad
11/1/2019 12:34:52 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.0	81.8	122.6
160	42.7	34.4	51.6





#42

2,4,6-Tribromophenol

Concen: 7.857 ng

RT: 10.57 min Scan# 1442

Delta R.T. 0.01 min

Lab File: BF117670.D

Acq: 31 Oct 2019 20:40

Instrument :

BNA_F

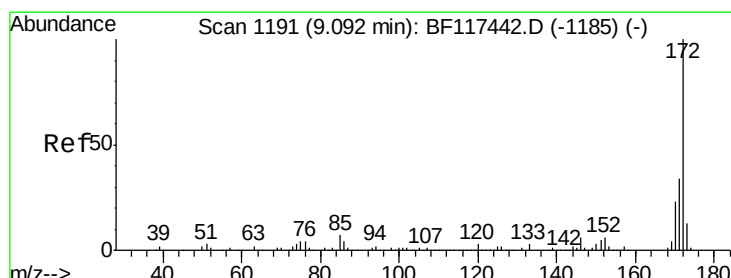
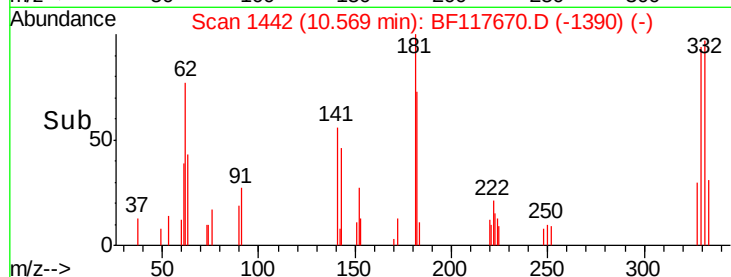
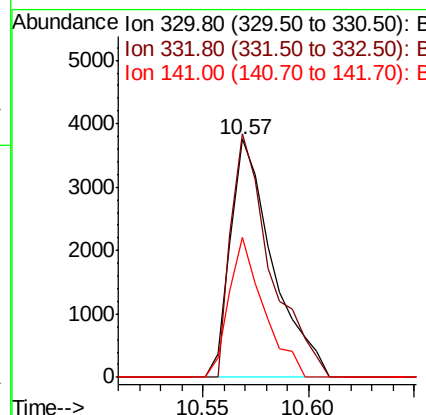
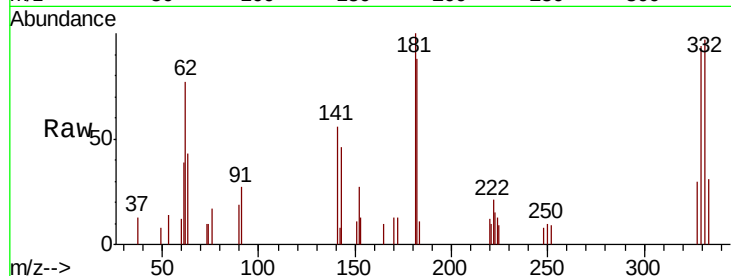
ClientSampleId :

175-70-(0-2.5)DL

Tot Ion:	330	Resp:	5212
Ion Ratio	Lower	Upper	
330	100		
332	95.8	78.5	117.7
141	48.3	37.0	55.6

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:52 PM



#45

2-Fluorobiphenyl

Concen: 6.488 ng

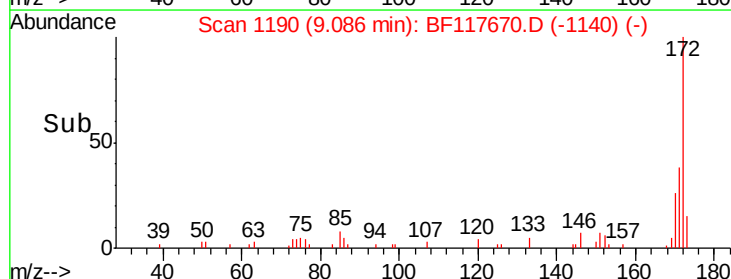
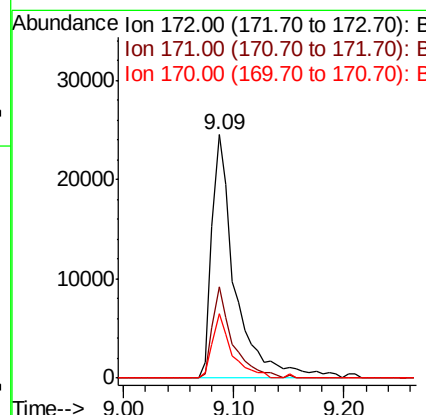
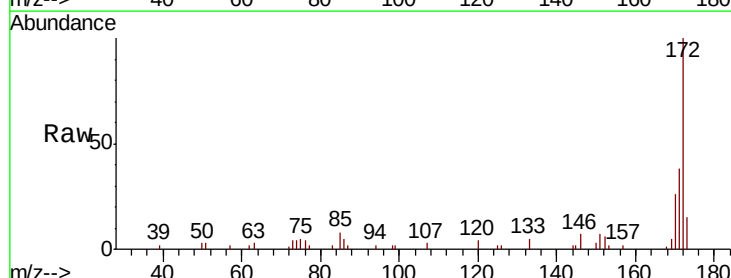
RT: 9.09 min Scan# 1190

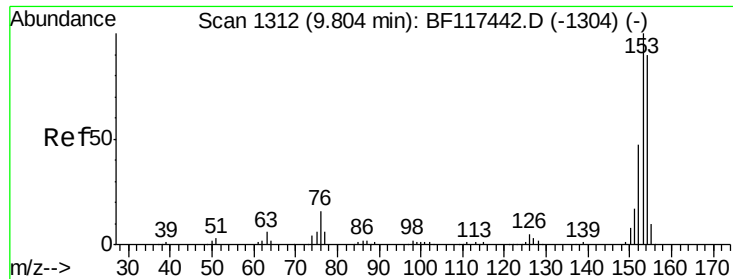
Delta R.T. -0.01 min

Lab File: BF117670.D

Acq: 31 Oct 2019 20:40

Tgt Ion:	172	Resp:	35302
Ion Ratio	Lower	Upper	
172	100		
171	37.7	27.5	41.3
170	26.2	18.6	27.8





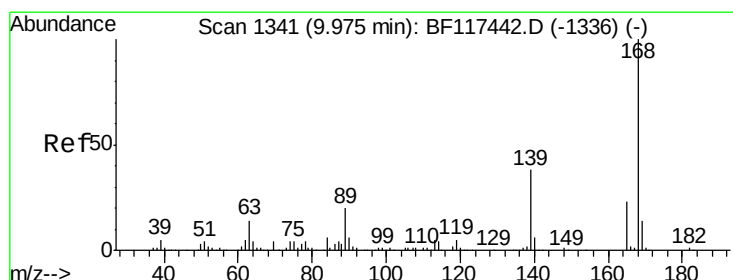
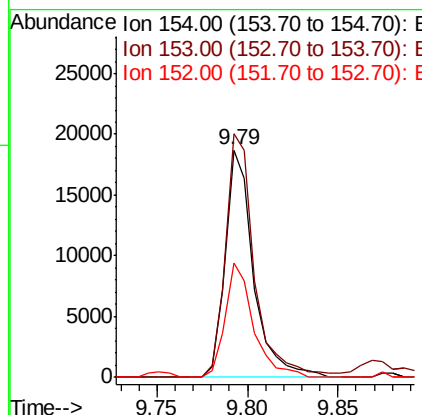
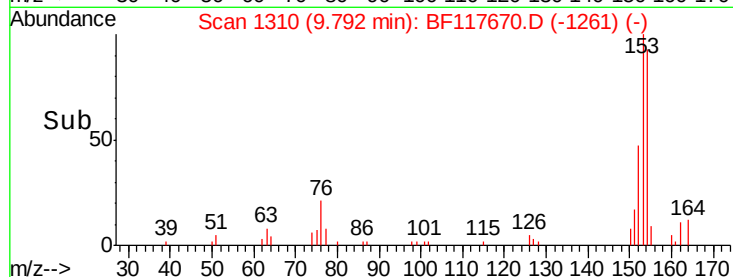
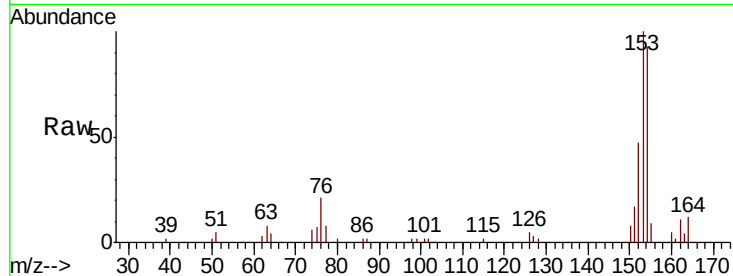
#52
Acenaphthene
Concen: 4.706 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleID :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	107.2	89.2	133.8
152	50.2	41.8	62.6

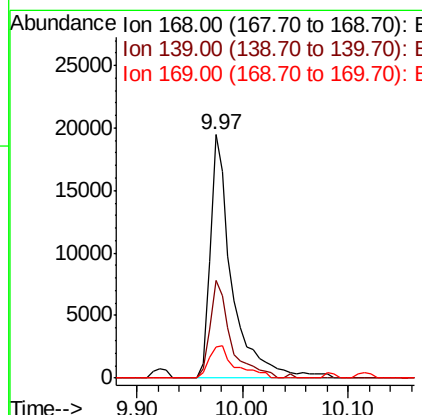
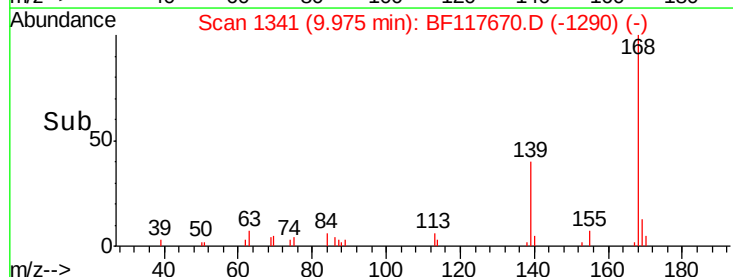
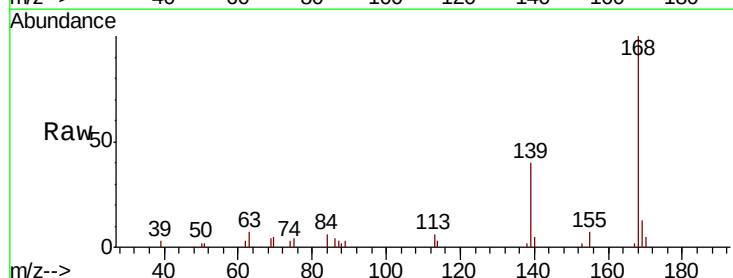
Manual Integrations
APPROVED

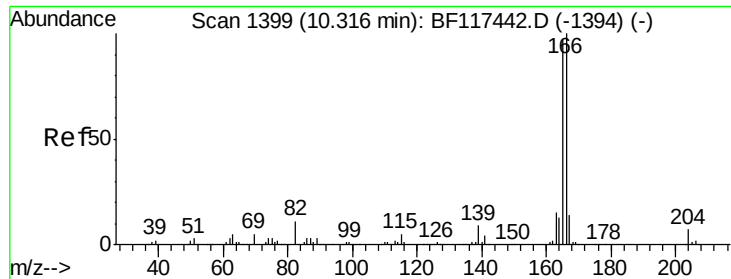
mohammad
11/1/2019 12:34:52 PM



#55
Dibenzofuran
Concen: 4.471 ng
RT: 9.97 min Scan# 1341
Delta R.T. -0.00 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
168	100		
139	40.4	31.8	47.6
169	12.9	11.2	16.8





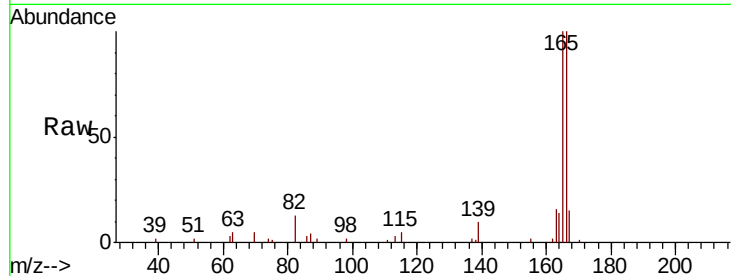
#58
 Fluorene
 Concen: 5.615 ng
 RT: 10.32 min Scan# 1399
 Delta R.T. -0.00 min
 Lab File: BF117670.D
 Acq: 31 Oct 2019 20:40

Instrument :
 BNA_F
 ClientSampleId :
 175-70-(0-2.5)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	100.5	77.6		116.4	
167	15.3	11.0		16.4	

Manual Integrations
 APPROVED

mohammad
 11/1/2019 12:34:52 PM

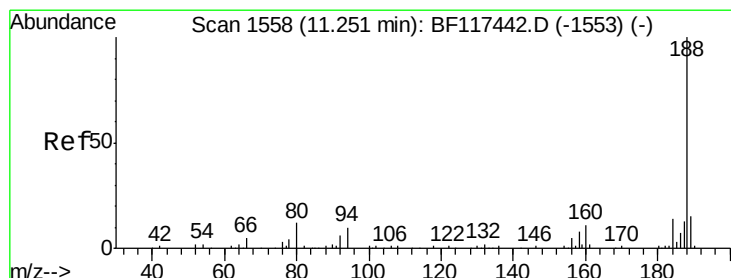
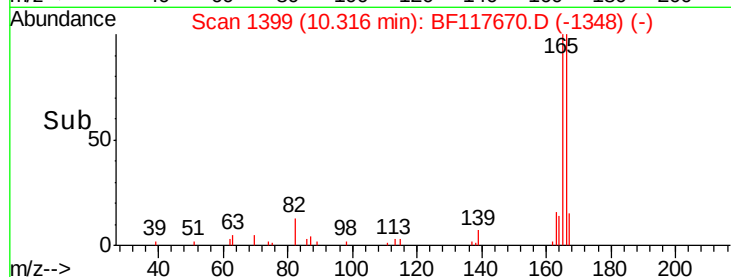
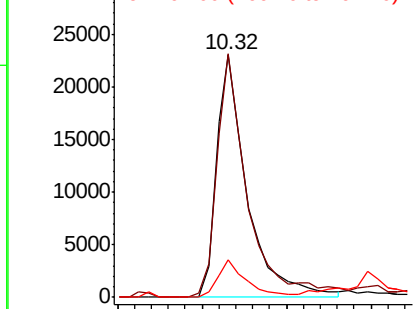


Abundance

Ion 166.00 (165.70 to 166.70): E

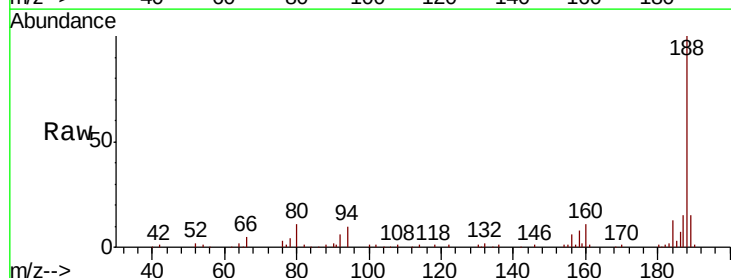
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: BF117670.D
 Acq: 31 Oct 2019 20:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	10.3	8.0		12.0	
80	11.5	9.5		14.3	

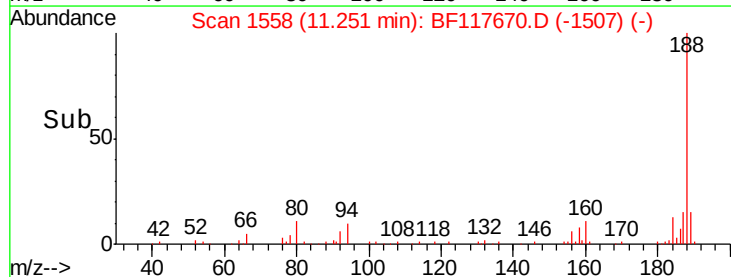
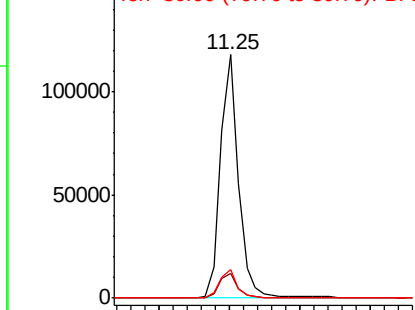


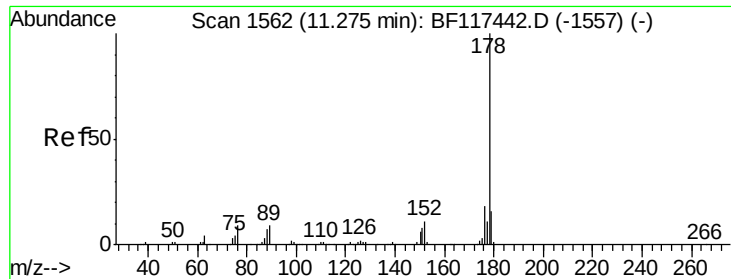
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





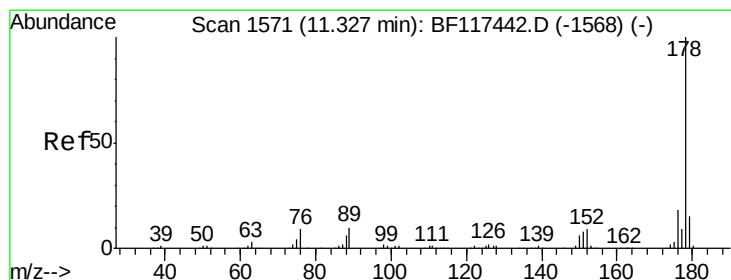
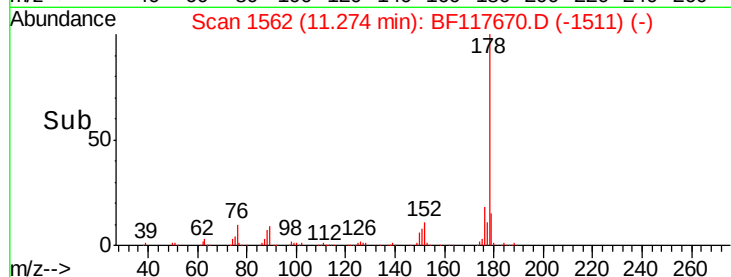
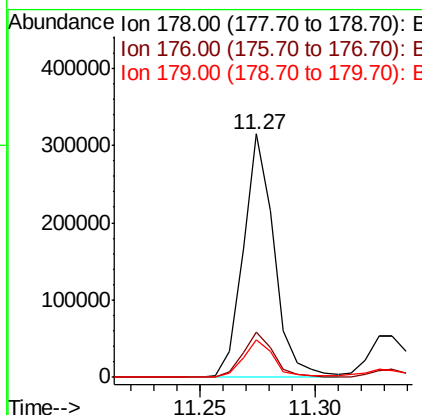
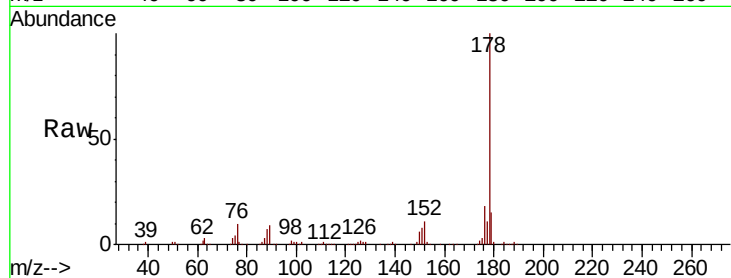
#71
Phenanthrene
Concen: 47.833 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.2	12.6	19.0

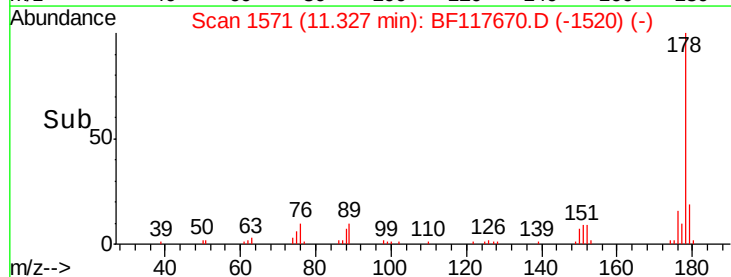
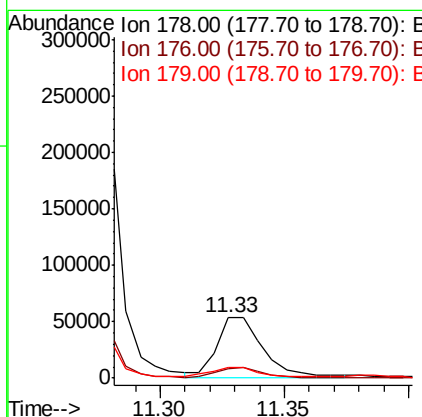
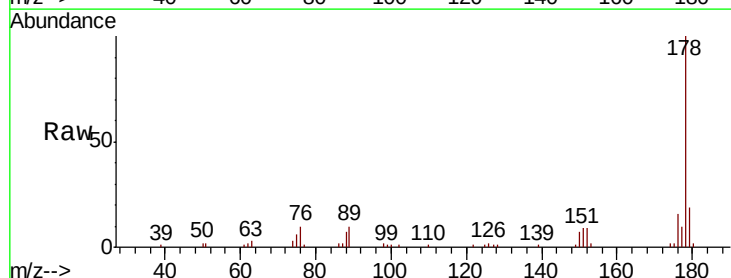
Manual Integrations
APPROVED

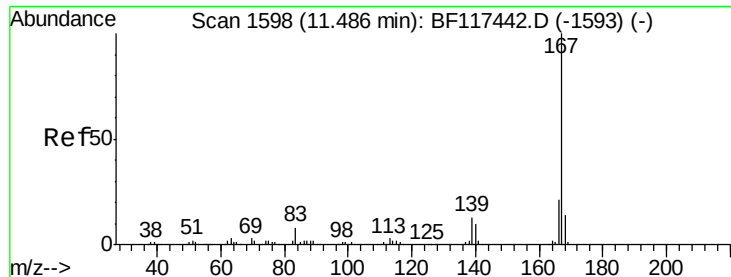
mohammad
11/1/2019 12:34:52 PM



#72
Anthracene
Concen: 11.460 ng m
RT: 11.33 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	16.4	14.7	22.1
179	18.5	12.2	18.2#





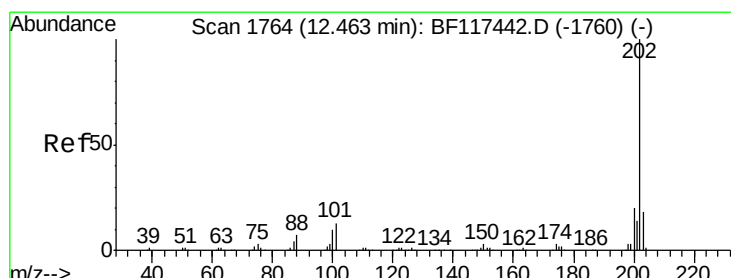
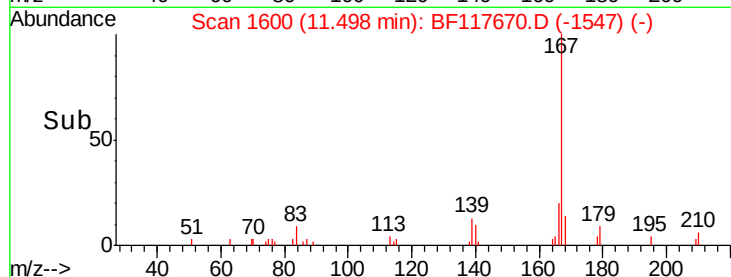
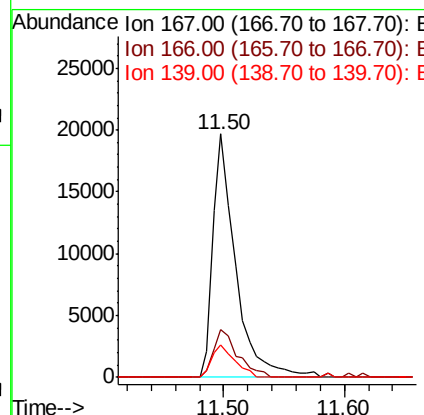
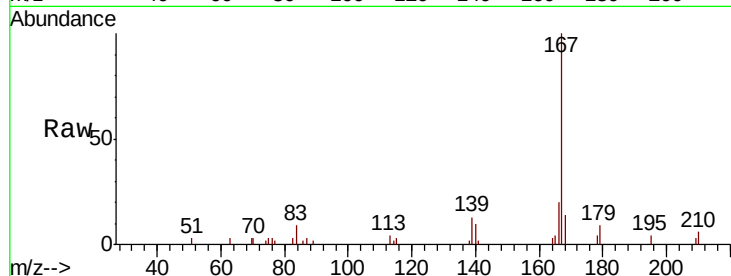
#73
 Carbazole
 Concen: 4.462 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. 0.01 min
 Lab File: BF117670.D
 Acq: 31 Oct 2019 20:40

Instrument :
 BNA_F
 ClientSampleId :
 175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	19.5	17.0	25.6
139	13.1	10.6	16.0

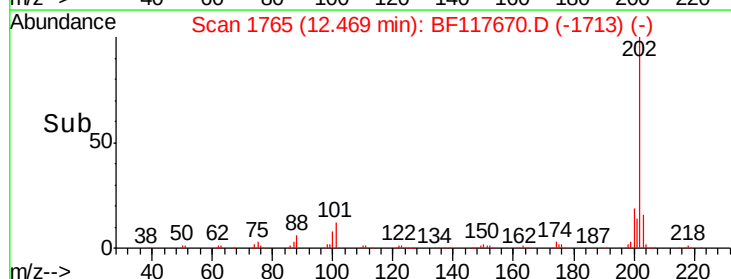
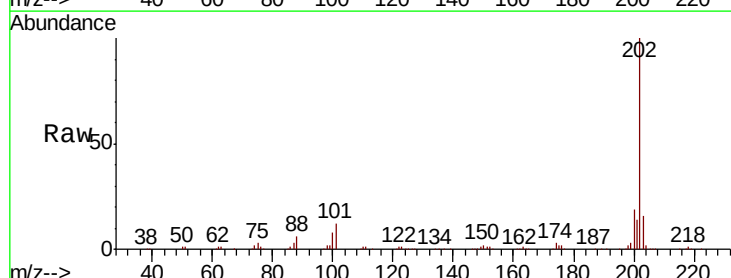
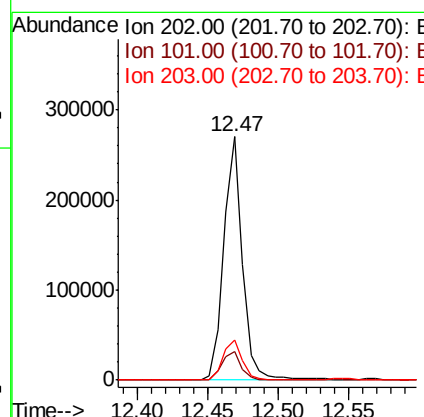
Manual Integrations
 APPROVED

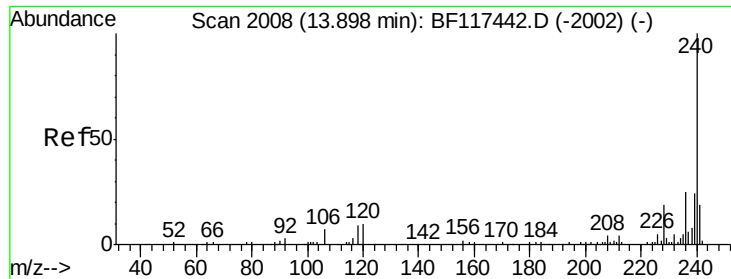
mohammad
 11/1/2019 12:34:52 PM



#75
 Fluoranthene
 Concen: 40.364 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117670.D
 Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.7
203	16.5	0.0	37.6





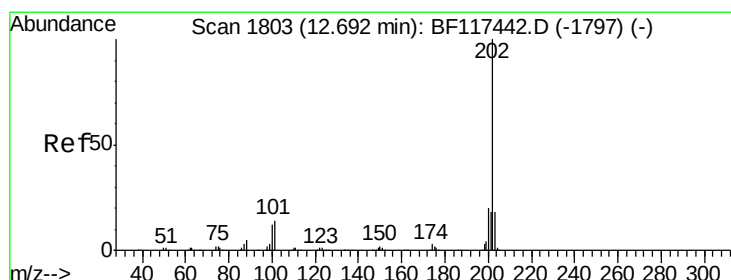
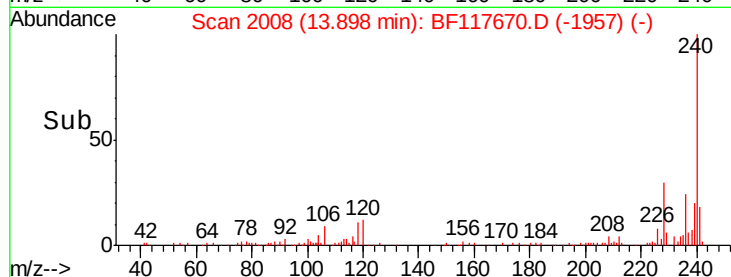
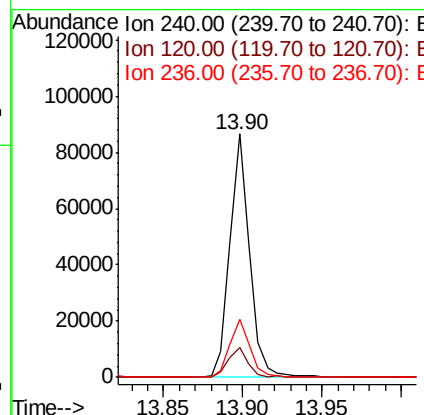
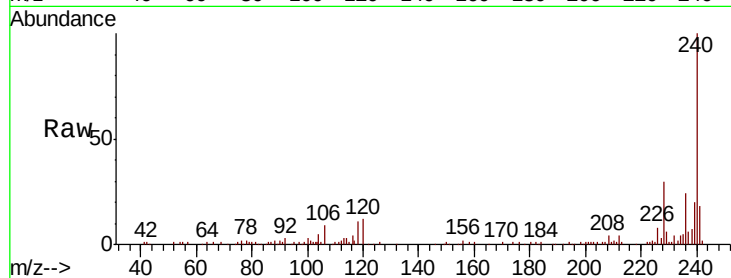
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.1	8.4	12.6
236	23.9	20.0	30.0

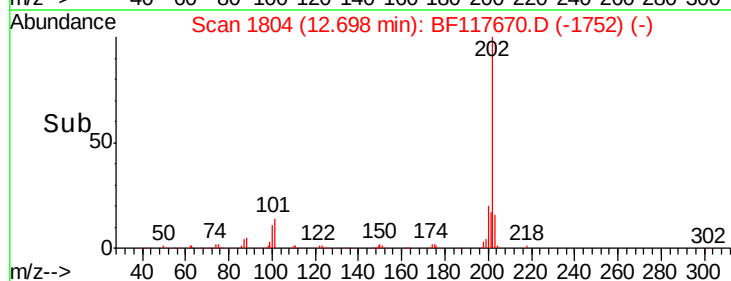
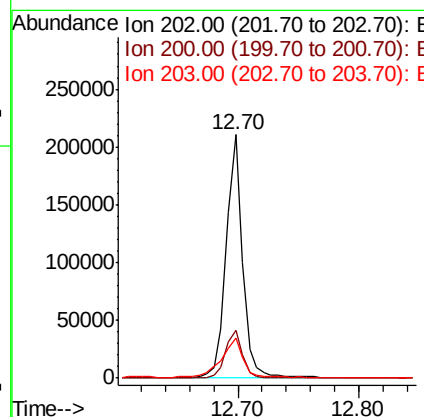
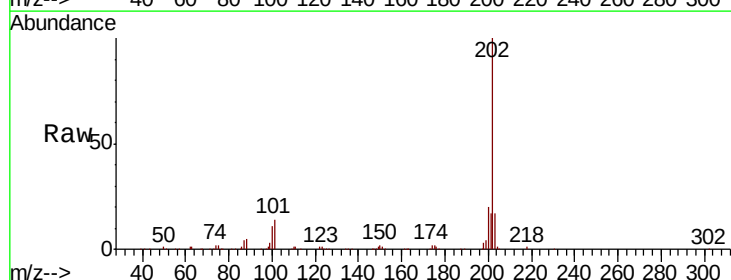
Manual Integrations
APPROVED

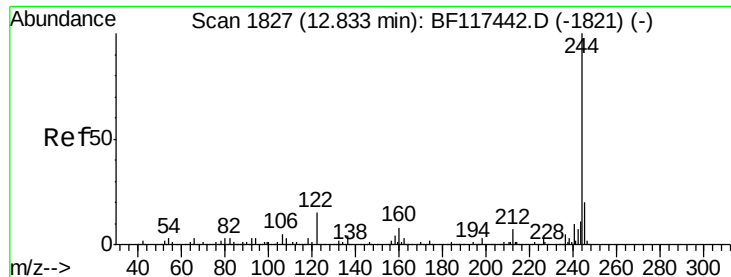
mohammad
11/1/2019 12:34:52 PM



#78
Pyrene
Concen: 30.626 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.2	24.2
203	16.5	14.0	21.0





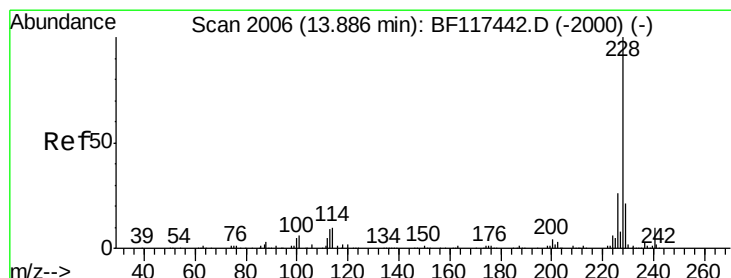
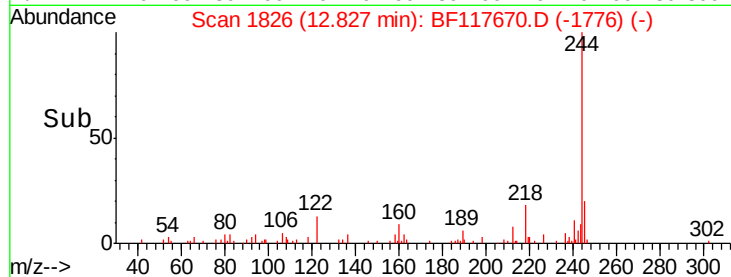
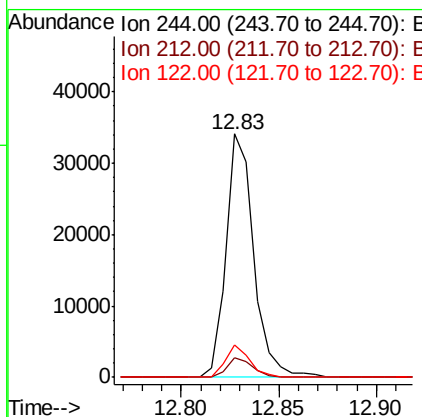
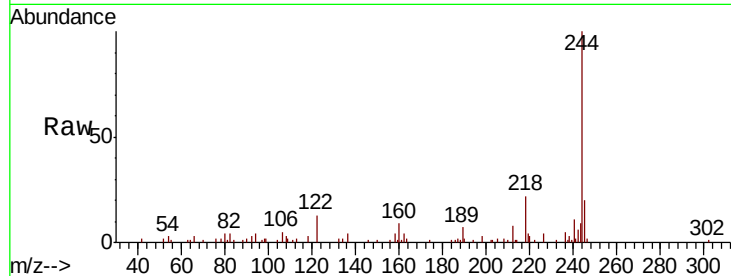
#79
 Terphenyl-d14
 Concen: 7.305 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF117670.D
 Acq: 31 Oct 2019 20:40

Instrument :
 BNA_F
 ClientSampleId :
 175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.8	5.8	8.6
122	13.5	11.8	17.8

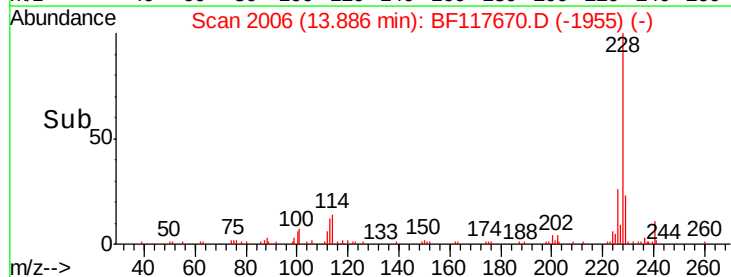
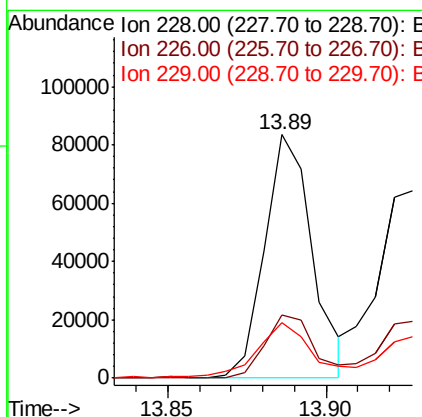
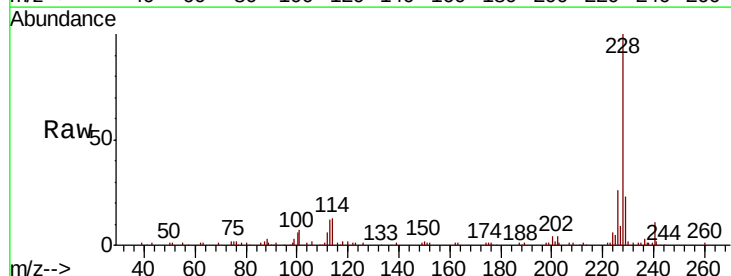
Manual Integrations
 APPROVED

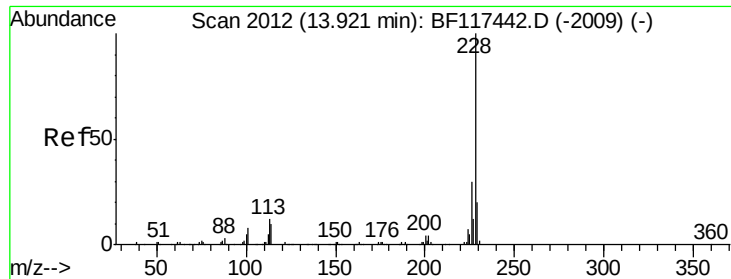
mohammad
 11/1/2019 12:34:52 PM



#81
 Benzo(a)anthracene
 Concen: 17.376 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. -0.00 min
 Lab File: BF117670.D
 Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.2	21.0	31.4
229	23.0	16.4	24.6





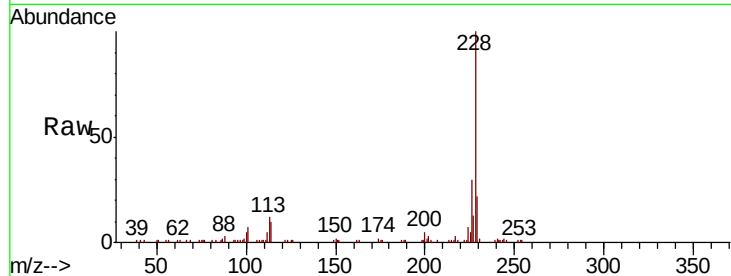
#83
Chrysene
Concen: 15.663 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.9	35.9
229	21.8	15.8	23.6

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:52 PM

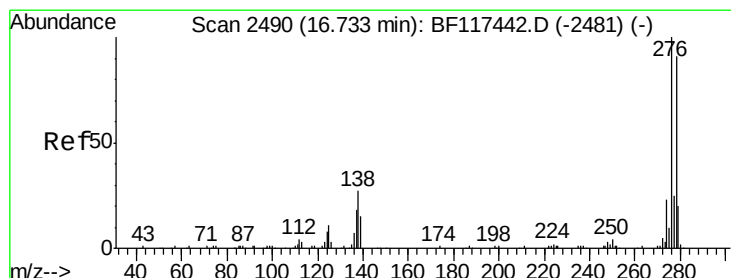
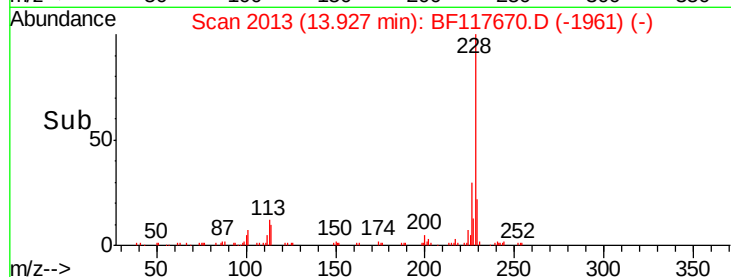
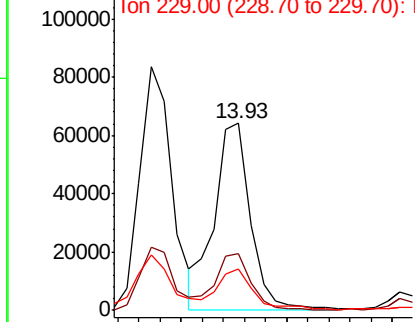


Abundance

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: 7.265 ng
RT: 16.77 min Scan# 2496
Delta R.T. 0.04 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

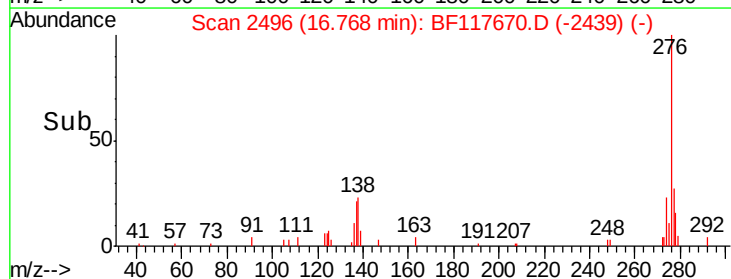
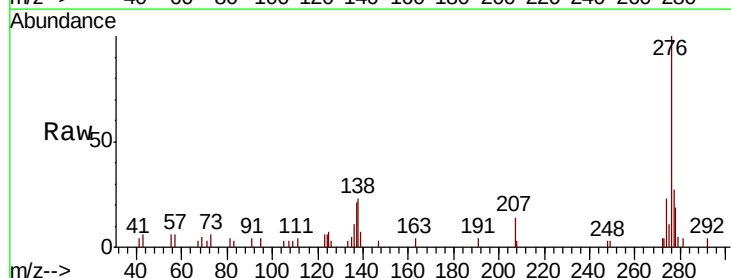
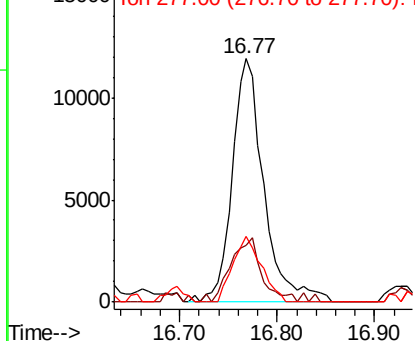
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.2	21.8	32.8
277	24.4	20.0	30.0

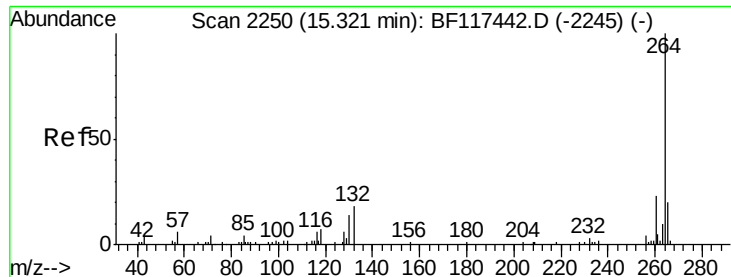
Abundance

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





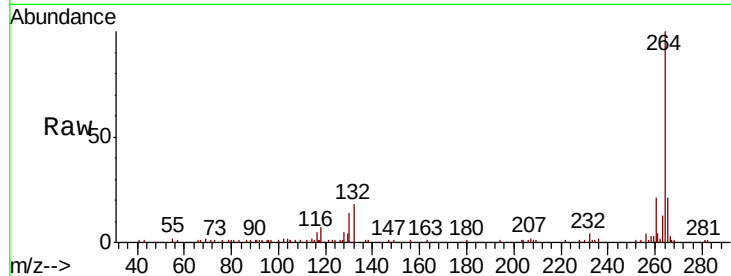
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

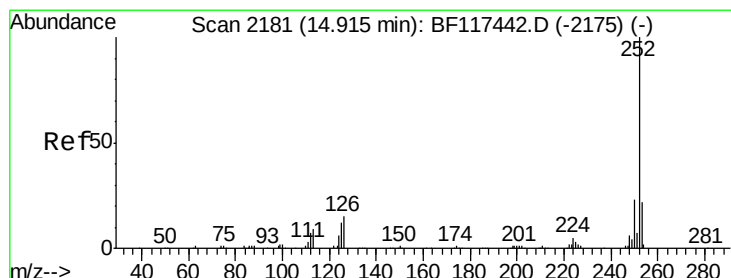
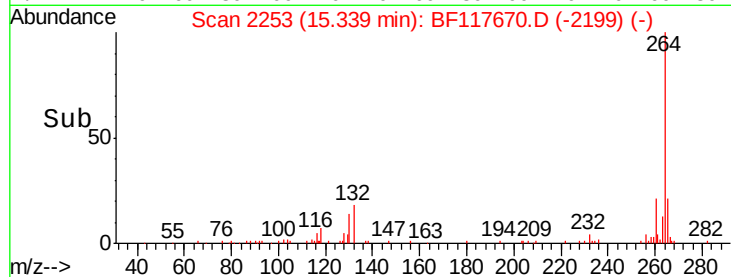
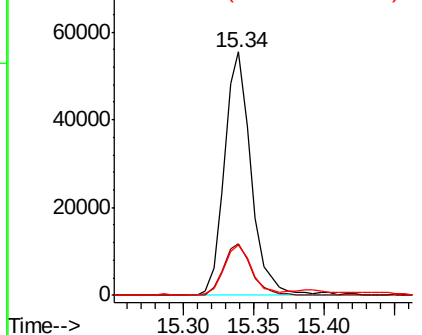
Tot Ion	Ratio	Lower	Upper
264	100		
260	21.4	18.4	27.6
265	20.9	16.1	24.1

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:52 PM



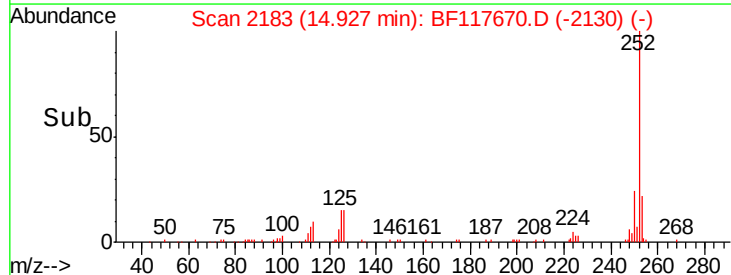
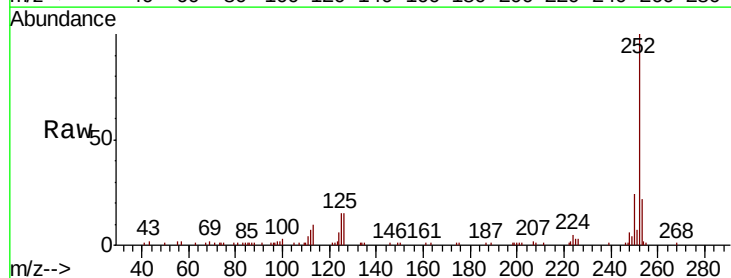
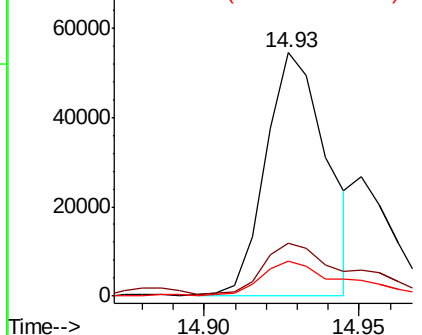
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

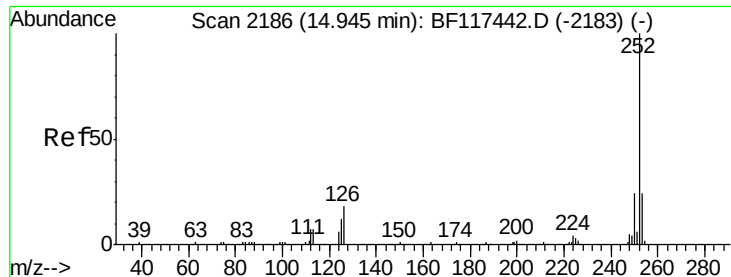


#88
Benzo(b)fluoranthene
Concen: 17.397 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	14.6	9.9	14.9

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





#89

Benzo(k)fluoranthene

Concen: 5.538 ng m

RT: 14.95 min Scan# 2187

Delta R.T. 0.01 min

Lab File: BF117670.D

Acq: 31 Oct 2019 20:40

Instrument :

BNA_F

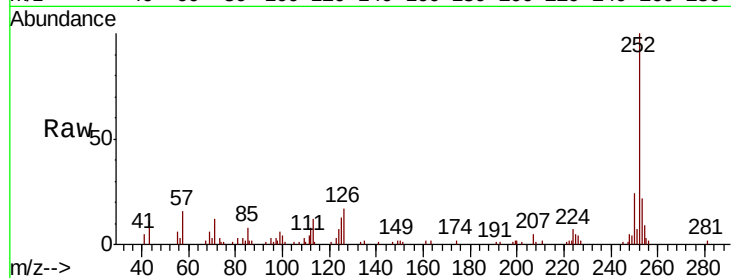
ClientSampleId :

175-70-(0-2.5)DL

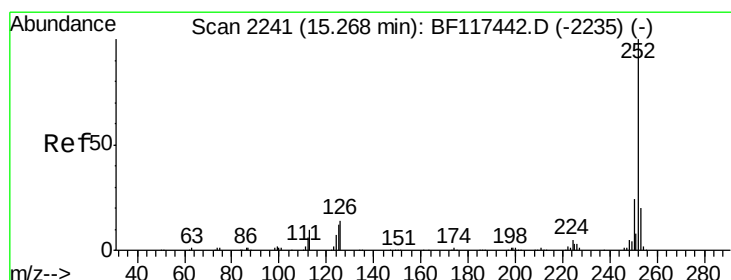
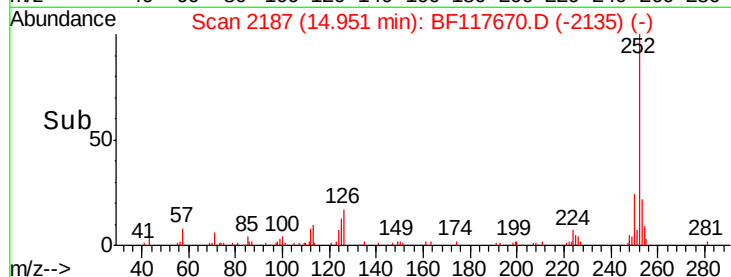
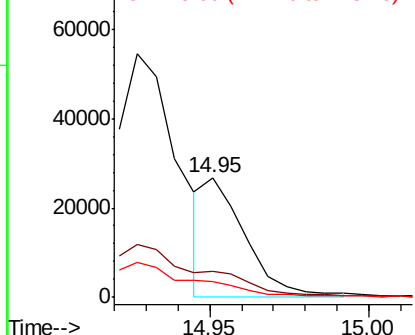
Tot Ion:	252	Resp:	24448
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.0	27.0
125	12.9	8.9	13.3

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:52 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: 13.041 ng

RT: 15.28 min Scan# 2243

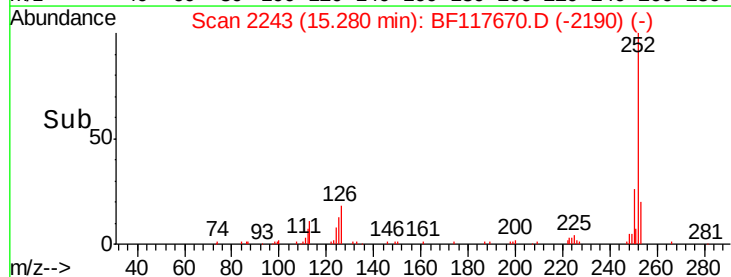
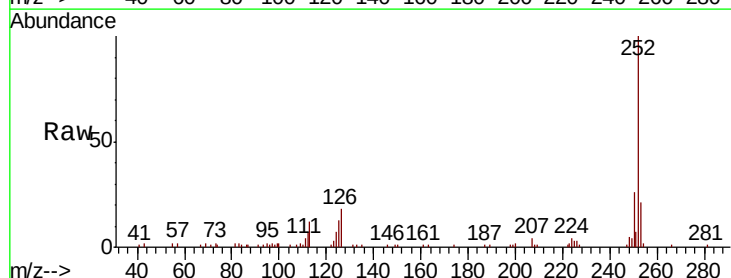
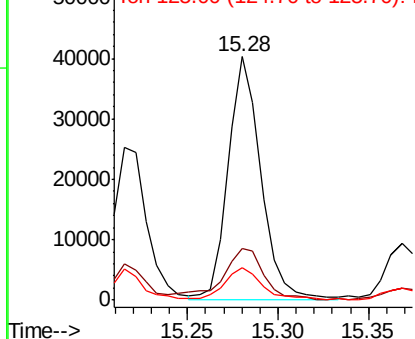
Delta R.T. 0.01 min

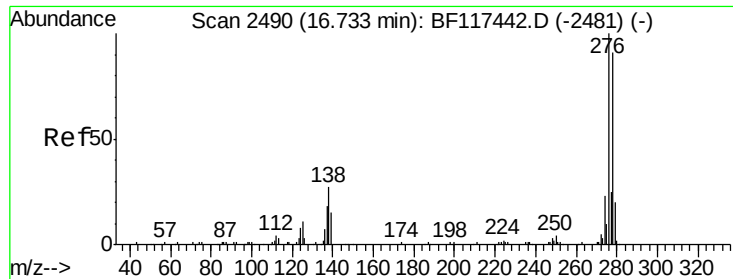
Lab File: BF117670.D

Acq: 31 Oct 2019 20:40

Tgt Ion:	252	Resp:	51069
Ion Ratio	Lower	Upper	
252	100		
253	21.4	16.3	24.5
125	13.4	9.2	13.8

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





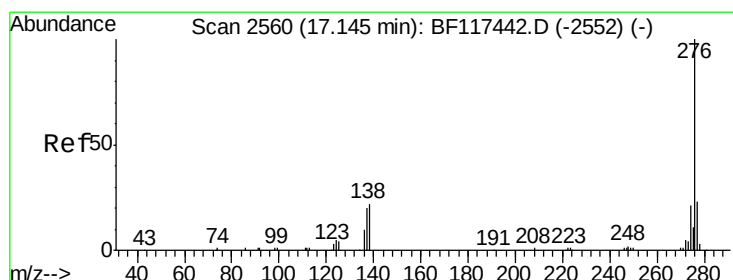
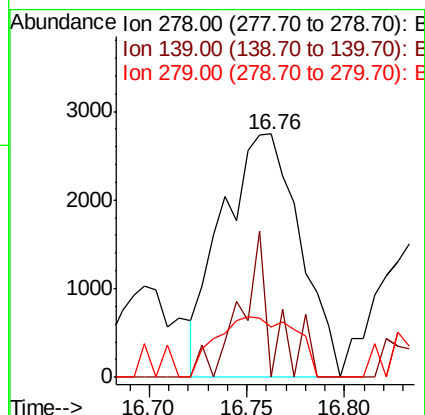
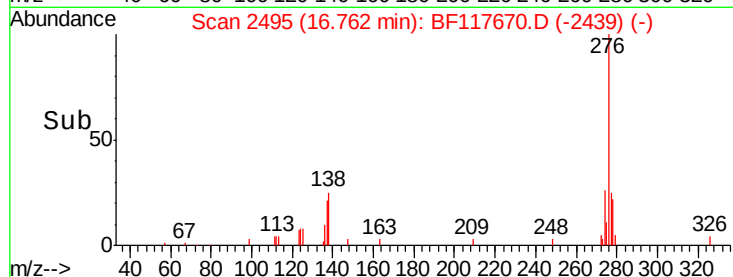
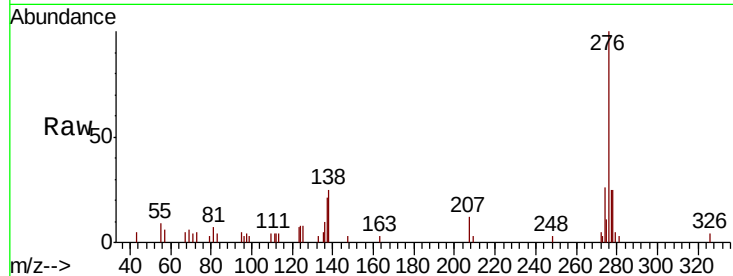
#91
Dibenzo(a,h)anthracene
Concen: 2.233 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.03 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.4	20.0#
279	20.8	17.8	26.6

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:52 PM



#92
Benzo(g,h,i)perylene
Concen: 7.028 ng
RT: 17.20 min Scan# 2570
Delta R.T. 0.06 min
Lab File: BF117670.D
Acq: 31 Oct 2019 20:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.2	18.4	27.6#
138	24.7	17.8	26.6

