

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
 Data File : BF117664.D
 Acq On : 31 Oct 2019 17:59
 Operator : JU
 Sample : K5563-01DL 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 STOCKPILEDL

Manual Integrations
 APPROVED

mohammad
 11/1/2019 12:34:39 PM

Quant Time: Nov 01 01:58:56 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	41552	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	180864	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	88494	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	129539	20.00	ng	0.00
76) Chrysene-d12	13.90	240	80230	20.00	ng	0.00
87) Perylene-d12	15.34	264	73980	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	96319	34.49	ng	0.01
7) Phenol-d6	6.39	99	146056	38.93	ng	0.01
23) Nitrobenzene-d5	7.30	82	81503	22.25	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	23208	30.31	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	123902	19.73	ng	-0.01
79) Terphenyl-d14	12.83	244	90171	18.33	ng	0.00
Target Compounds						
50) Dimethylphthalate	9.48	163	24680	3.912	ng	99
52) Acenaphthene	9.79	154	24085	4.838	ng	98
55) Dibenzofuran	9.97	168	21046	2.918	ng	96
58) Fluorene	10.32	166	29980	5.027	ng	100
71) Phenanthrene	11.27	178	352968	46.926	ng	99
72) Anthracene	11.33	178	85719	11.107	ng	98
73) Carbazole	11.50	167	29634	4.202	ng	99
75) Fluoranthene	12.47	202	372752	49.503	ng	98
78) Pyrene	12.70	202	284846	41.334	ng	100
81) Benzo(a)anthracene	13.89	228	126558	23.385	ng	99
83) Chrysene	13.93	228	110597	20.852	ng	97
86) Indeno(1,2,3-cd)pyrene	16.76	276	39451	9.962	ng	95
88) Benzo(b)fluoranthene	14.93	252	111708m	25.571	ng	
89) Benzo(k)fluoranthene	14.95	252	35692m	7.971	ng	
90) Benzo(a)pyrene	15.28	252	72728	18.310	ng	96
91) Dibenzo(a,h)anthracene	16.76	278	8778m	2.556	ng	
92) Benzo(g,h,i)perylene	17.20	276	32313	9.944	ng	# 93

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

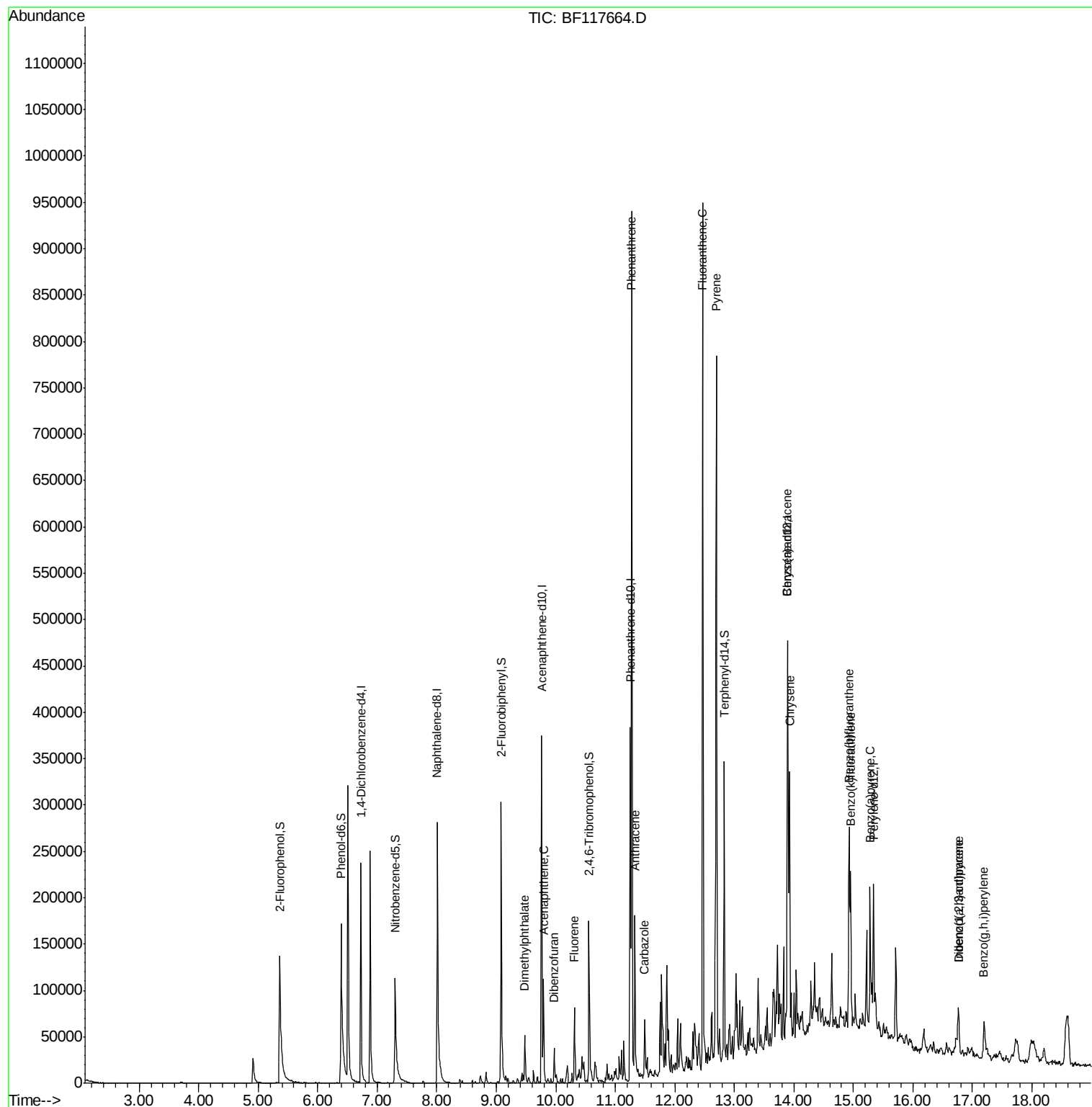
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
Data File : BF117664.D
Acq On : 31 Oct 2019 17:59
Operator : JU
Sample : K5563-01DL 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

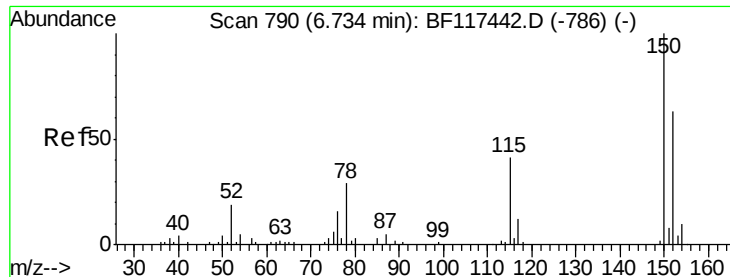
Instrument :
BNA_F
ClientSampleId :
STOCKPIEDL

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:39 PM

Quant Time: Nov 01 01:58:56 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

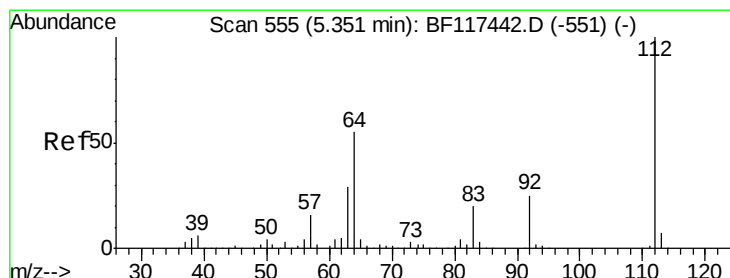
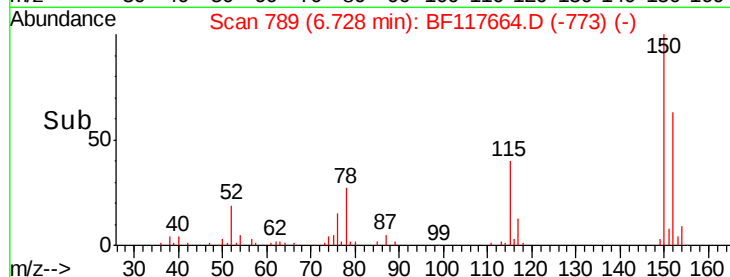
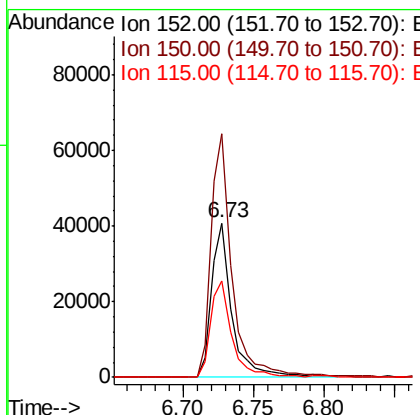
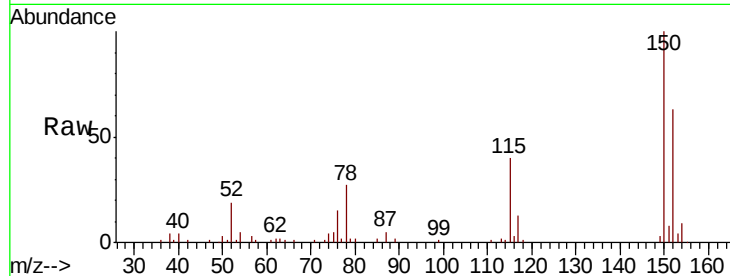
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleId :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	126.8	190.2
115	62.7	51.6	77.4

Manual Integrations
APPROVED

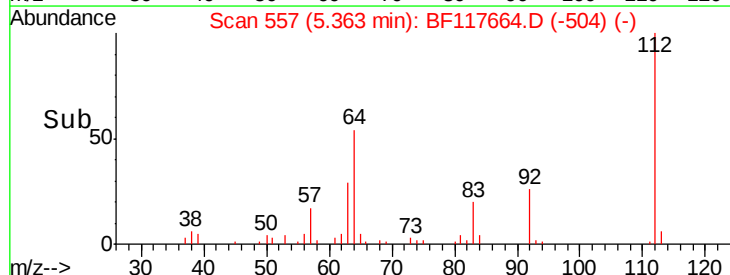
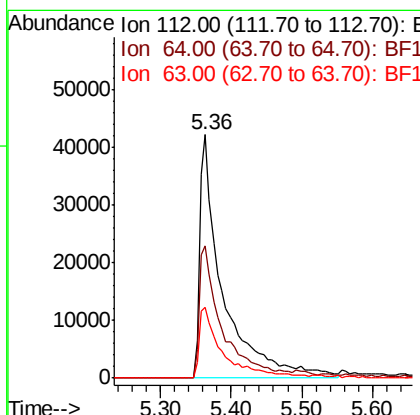
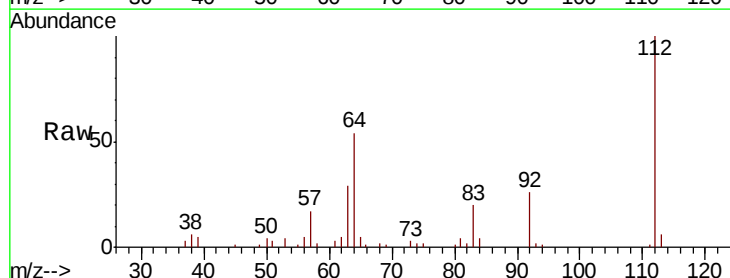
mohammad
11/1/2019 12:34:39 PM



#5

2-Fluorophenol
Concen: 34.486 ng
RT: 5.36 min Scan# 557
Delta R.T. 0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	44.1	66.1
63	29.2	23.4	35.2





#7

Phenol-d6

Concen: 38.934 ng

RT: 6.39 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF117664.D

Acq: 31 Oct 2019 17:59

Instrument :

BNA_F

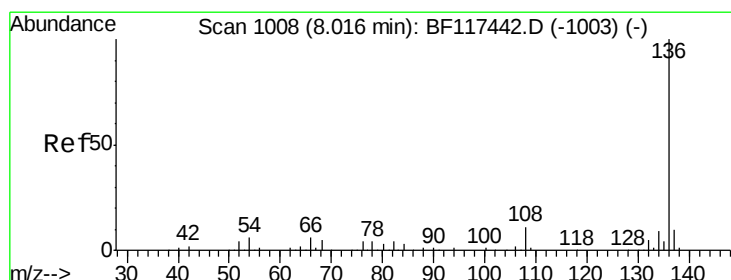
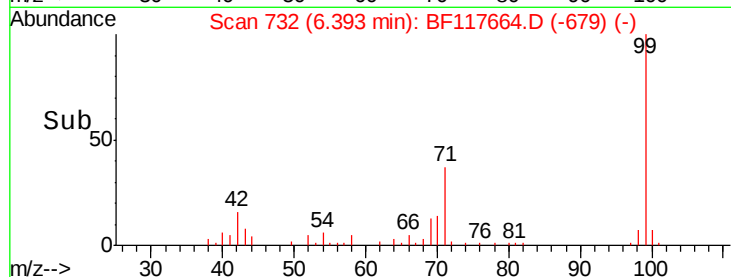
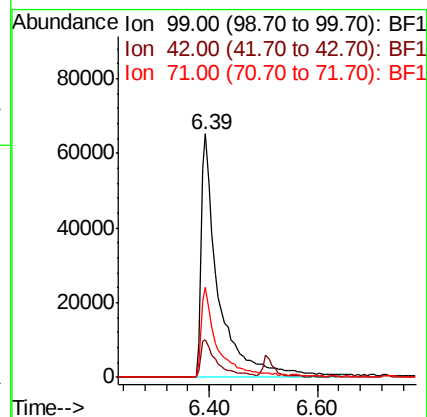
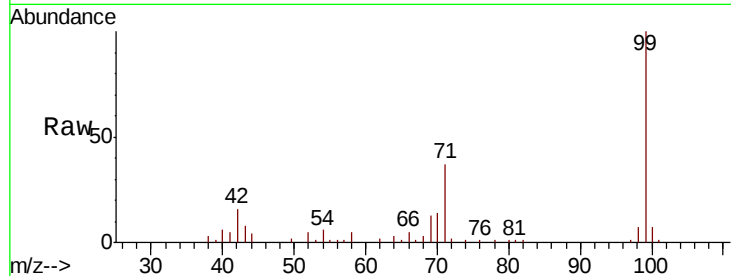
ClientSampleId :

STOCKPILEDL

Tot Ion:	99	Resp:	146056
Ion Ratio	Lower	Upper	
99	100		
42	15.7	12.8	19.2
71	37.0	28.6	43.0

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:39 PM



#21

Naphthalene-d8

Concen: 20.000 ng

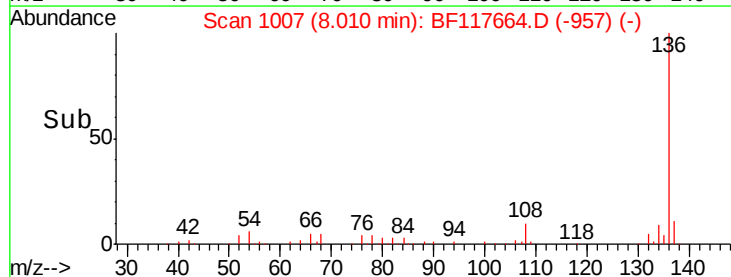
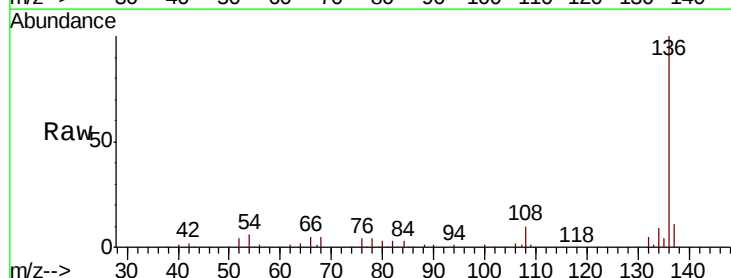
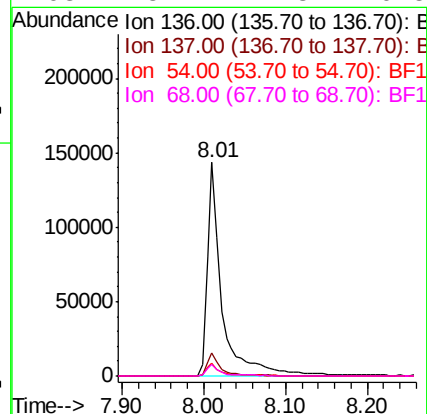
RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117664.D

Acq: 31 Oct 2019 17:59

Tgt Ion:	136	Resp:	180864
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.2	12.4
54	5.7	4.5	6.7
68	5.4	4.3	6.5





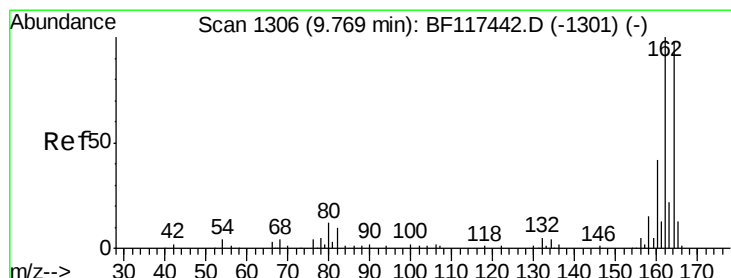
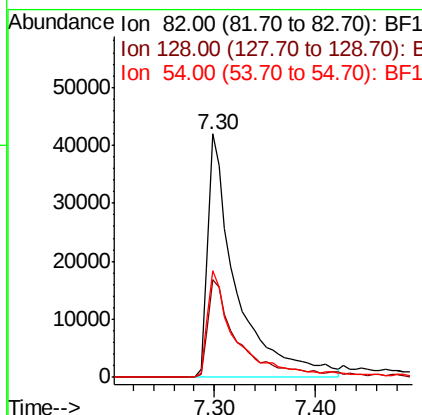
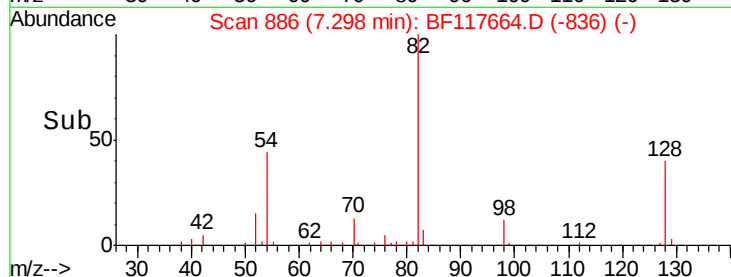
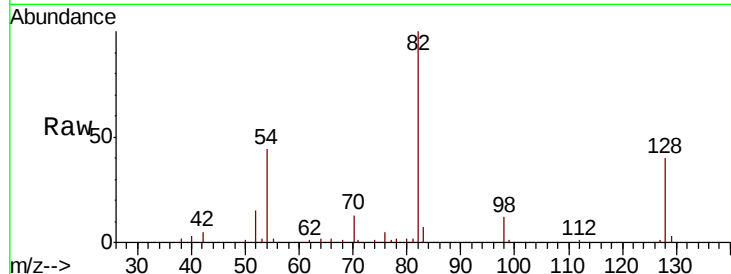
#23
Nitrobenzene-d5
Concen: 22.247 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleID :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.3	32.2	48.2
54	43.9	34.2	51.2

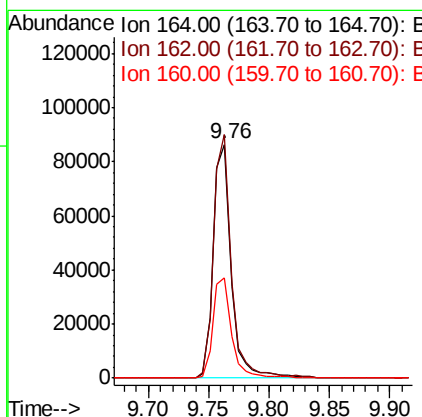
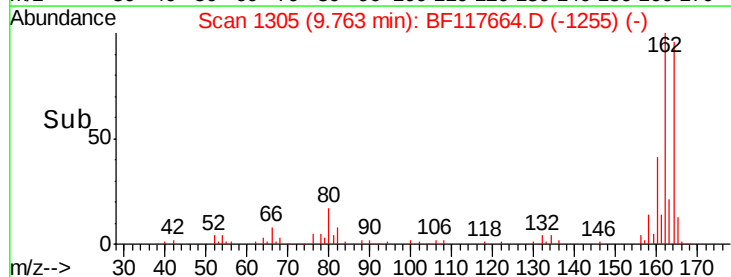
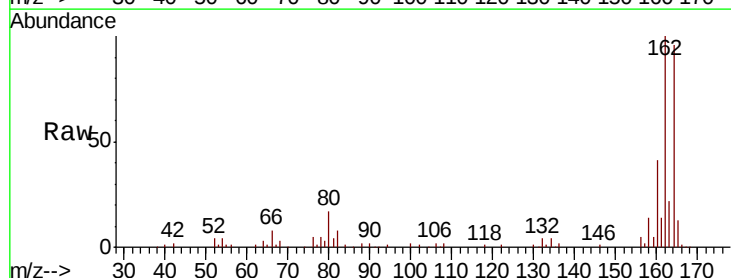
Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:39 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	81.8	122.6
160	42.9	34.4	51.6





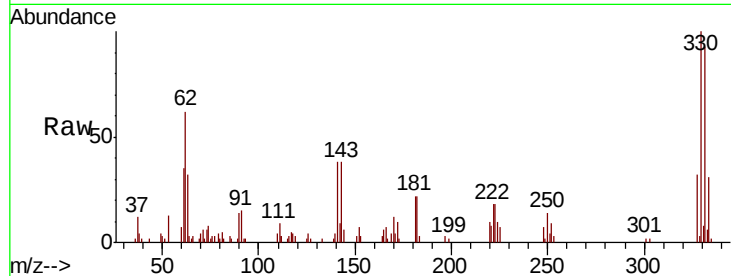
#42
 2,4,6-Tribromophenol
 Concen: 30.309 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. 0.00 min
 Lab File: BF117664.D
 Acq: 31 Oct 2019 17:59

Instrument :
 BNA_F
 ClientSampleID :
 STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.1	78.5	117.7
141	45.1	37.0	55.6

Manual Integrations
 APPROVED

mohammad
 11/1/2019 12:34:39 PM

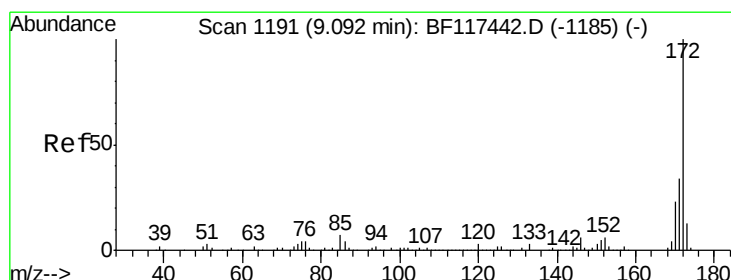
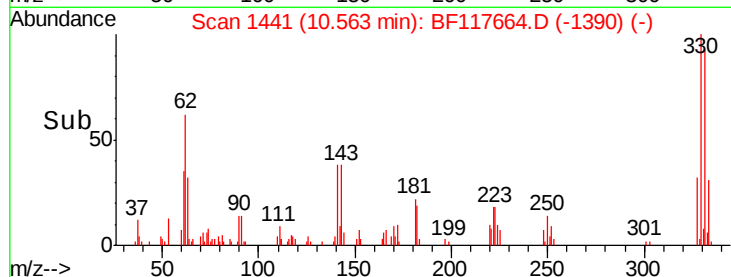
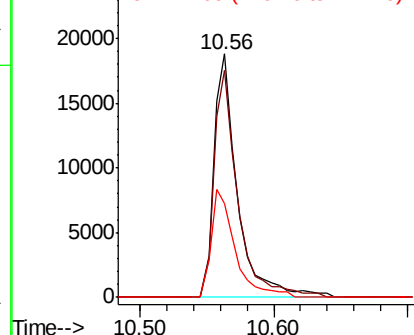


Abundance

Ion 329.80 (329.50 to 330.50): E

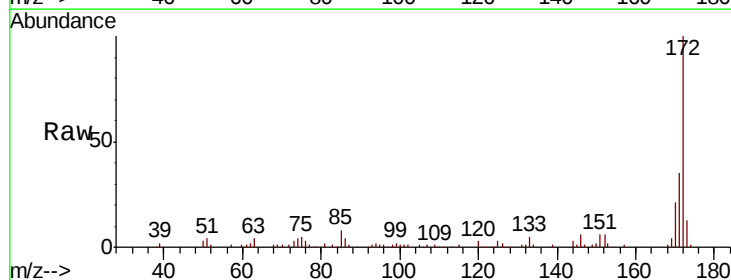
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 19.728 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF117664.D
 Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.5	41.3
170	21.3	18.6	27.8

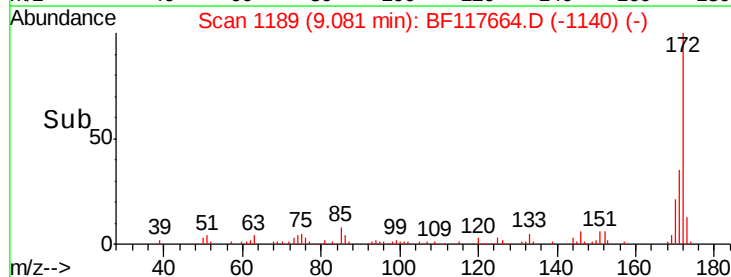
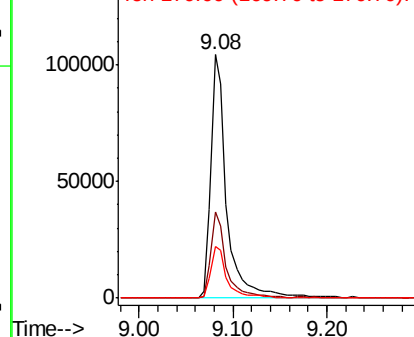


Abundance

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





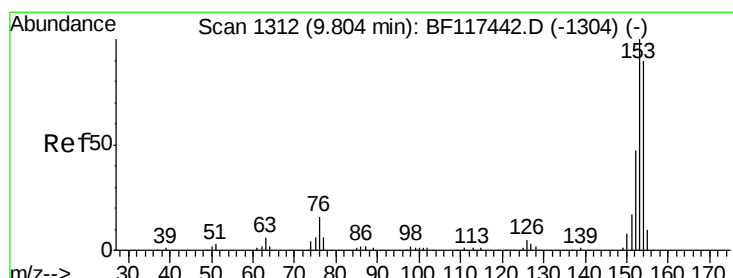
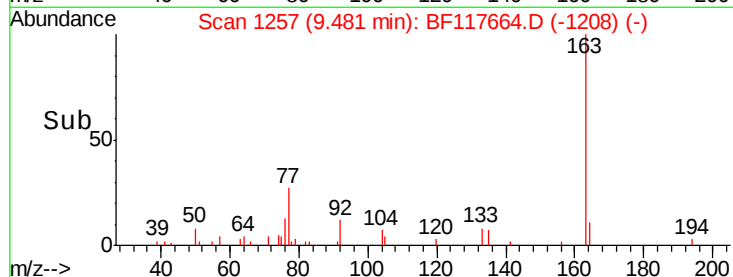
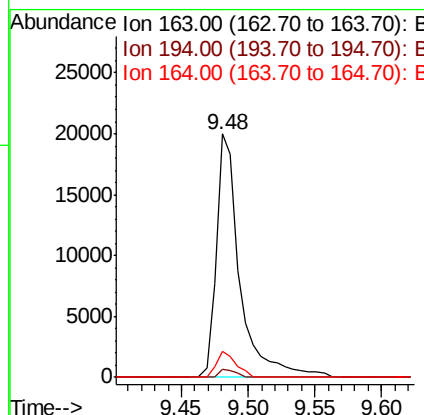
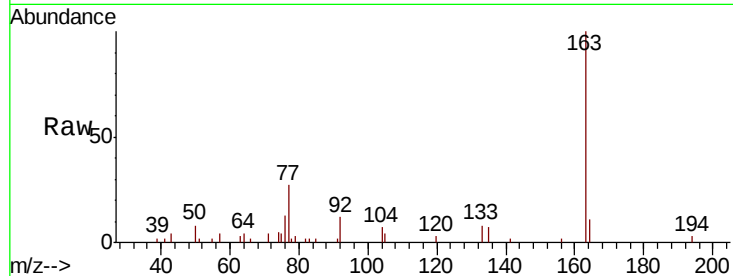
#50
Dimethylphthalate
Concen: 3.912 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleID :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.9	4.3
164	10.5	8.2	12.2

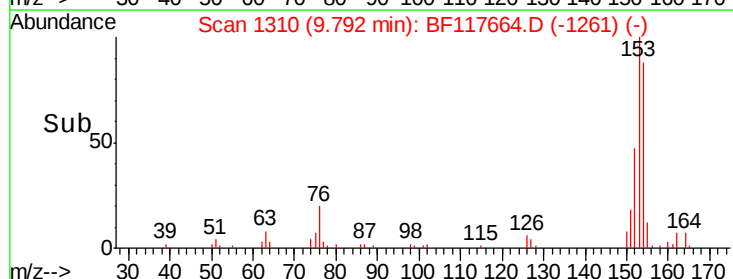
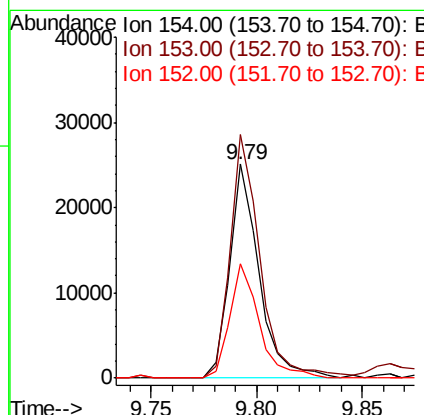
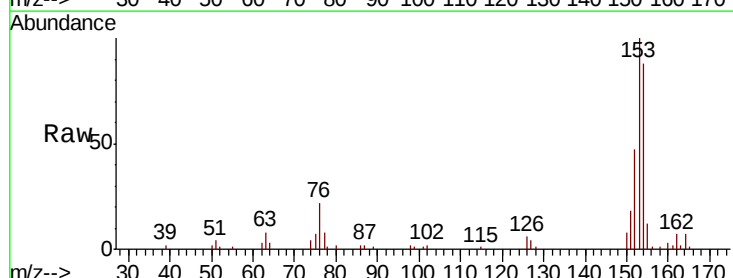
Manual Integrations
APPROVED

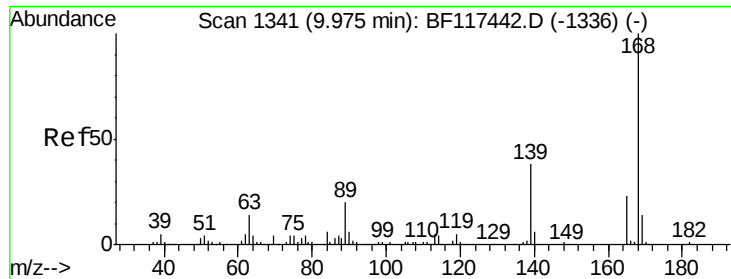
mohammad
11/1/2019 12:34:39 PM



#52
Acenaphthene
Concen: 4.838 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.8	89.2	133.8
152	53.7	41.8	62.6





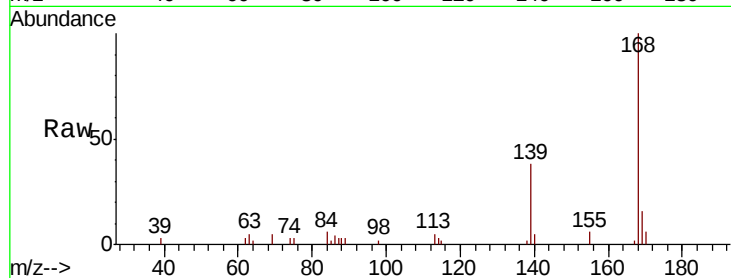
#55
Dibenzenofuran
Concen: 2.918 ng
RT: 9.97 min Scan# 1341
Delta R.T. 0.00 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleId :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.0	31.8	47.6
169	16.3	11.2	16.8

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:39 PM

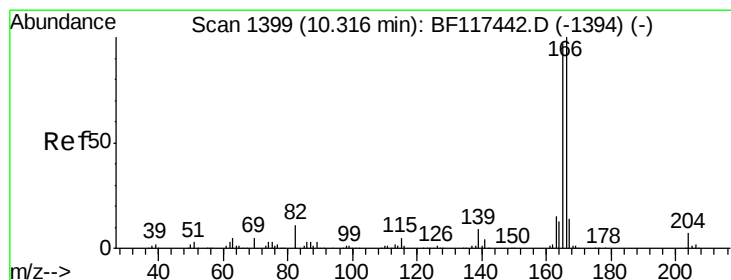
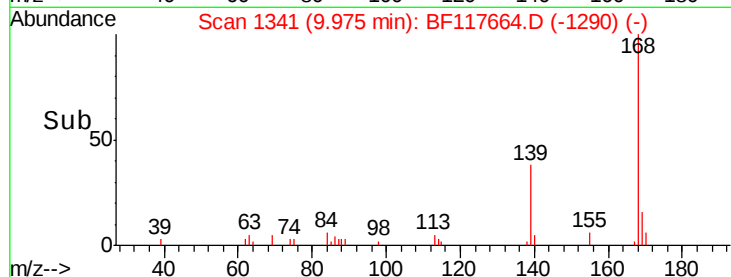
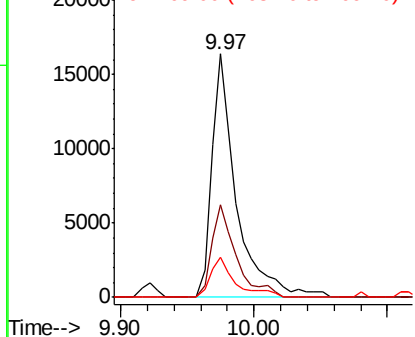


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#58
Fluorene
Concen: 5.027 ng
RT: 10.32 min Scan# 1399
Delta R.T. 0.00 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

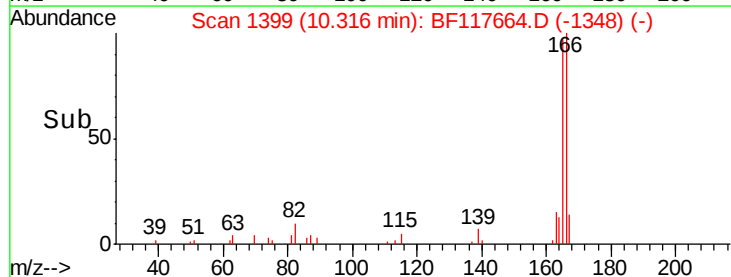
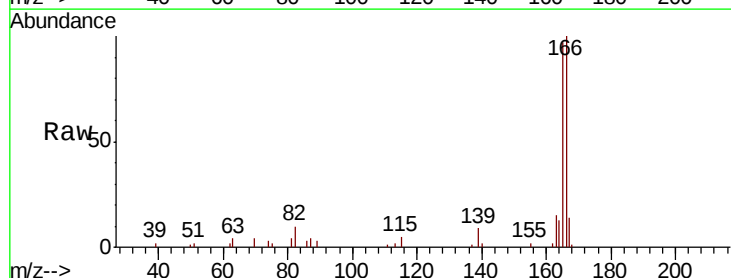
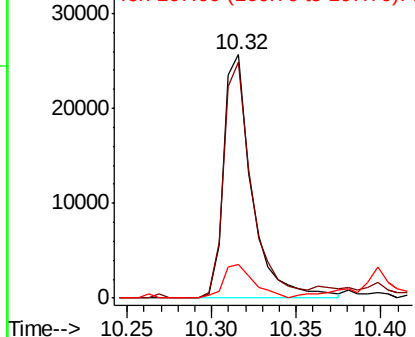
Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.8	77.6	116.4
167	13.6	11.0	16.4

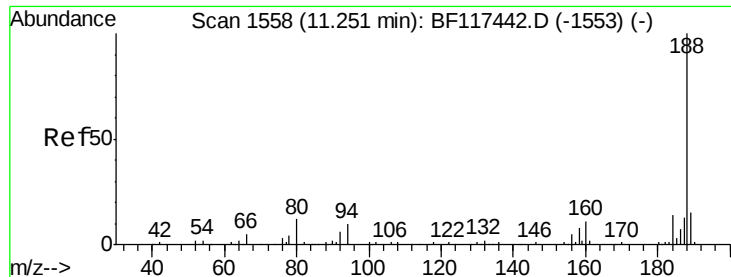
Abundance

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: BF117664.D

Acq: 31 Oct 2019 17:59

Instrument :

BNA_F

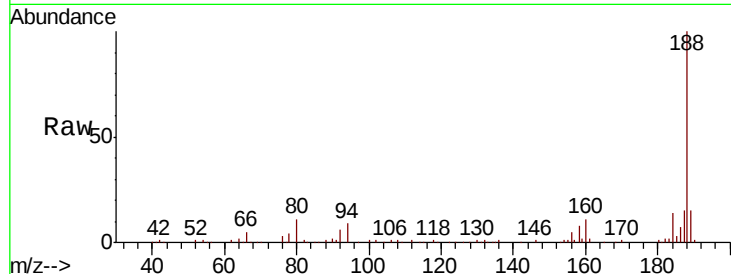
ClientSampleId :

STOCKPILEDL

Tot Ion:	188	Resp:	129539
Ion Ratio	Lower	Upper	
188	100		
94	8.9	8.0	12.0
80	11.4	9.5	14.3

Manual Integrations
APPROVED

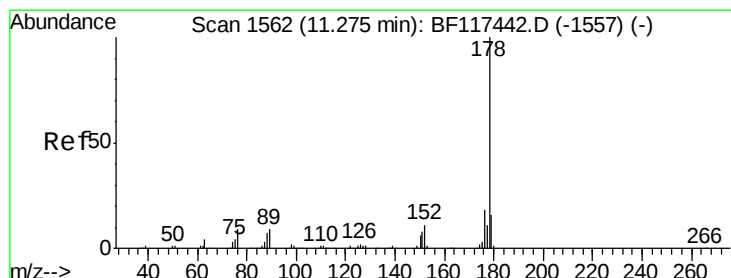
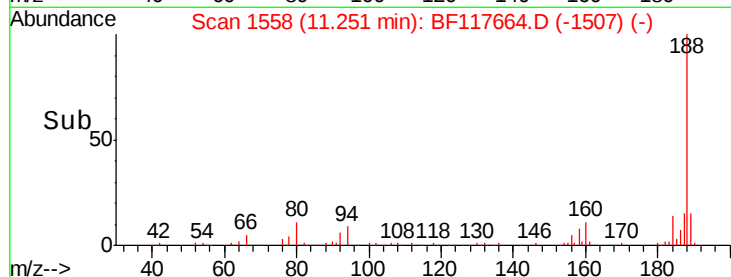
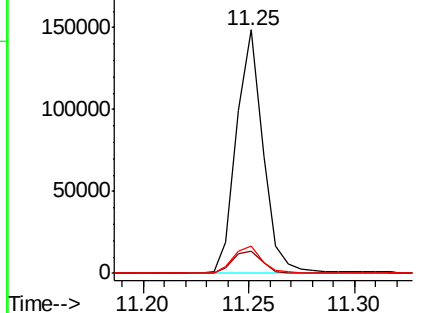
mohammad
11/1/2019 12:34:39 PM



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: 46.926 ng

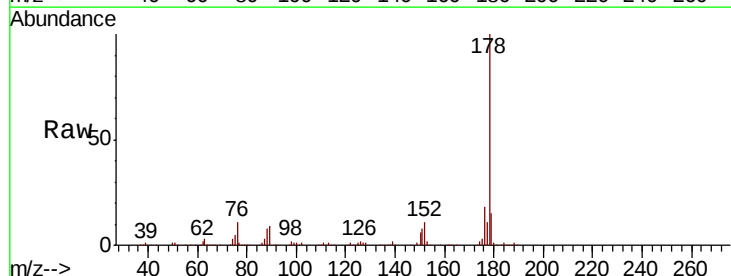
RT: 11.27 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BF117664.D

Acq: 31 Oct 2019 17:59

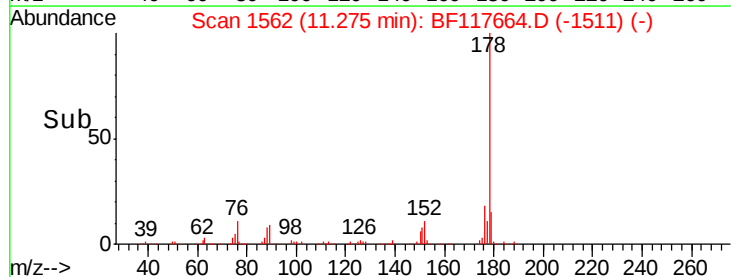
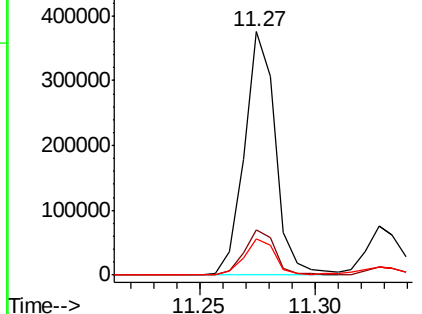
Tgt Ion:	178	Resp:	352968
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.6	22.0
179	14.9	12.6	19.0

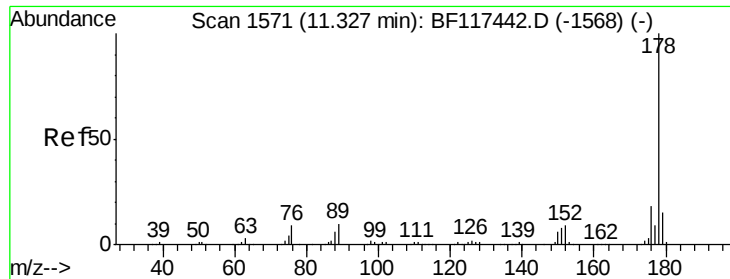


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





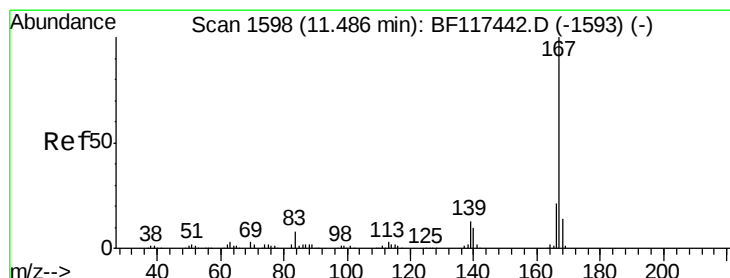
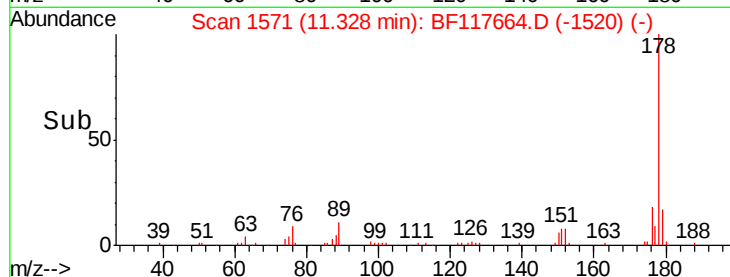
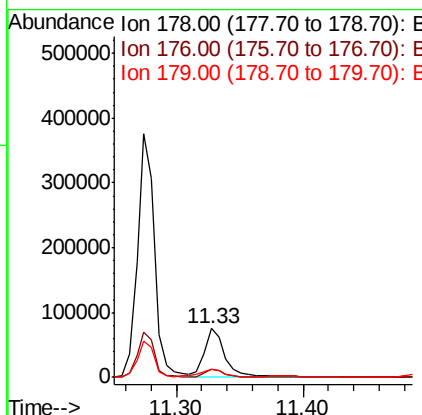
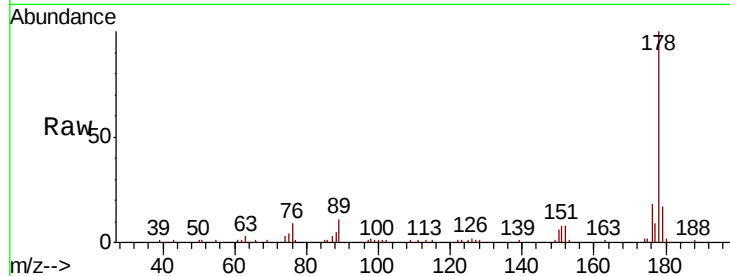
#72
 Anthracene
 Concen: 11.107 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: BF117664.D
 Acq: 31 Oct 2019 17:59

Instrument :
 BNA_F
 ClientSampleID :
 STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.7	22.1
179	16.6	12.2	18.2

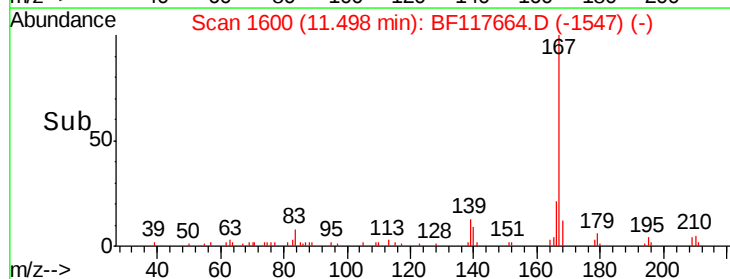
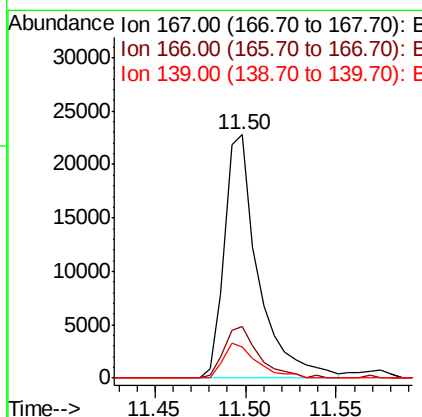
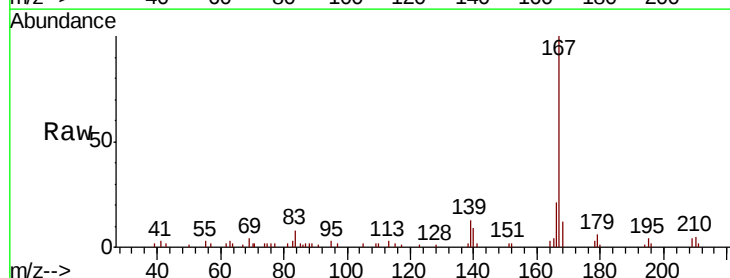
Manual Integrations
 APPROVED

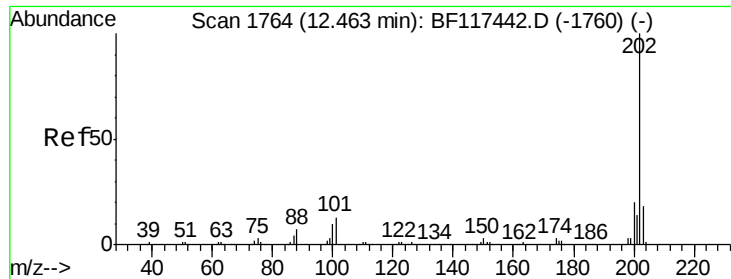
mohammad
 11/1/2019 12:34:39 PM



#73
 Carbazole
 Concen: 4.202 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. 0.01 min
 Lab File: BF117664.D
 Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.0	25.6
139	12.9	10.6	16.0





#75

Fluoranthene

Concen: 49.503 ng

RT: 12.47 min Scan# 1765

Delta R.T. 0.01 min

Lab File: BF117664.D

Acq: 31 Oct 2019 17:59

Instrument :

BNA_F

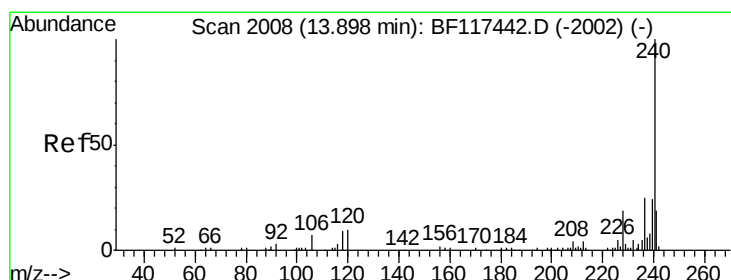
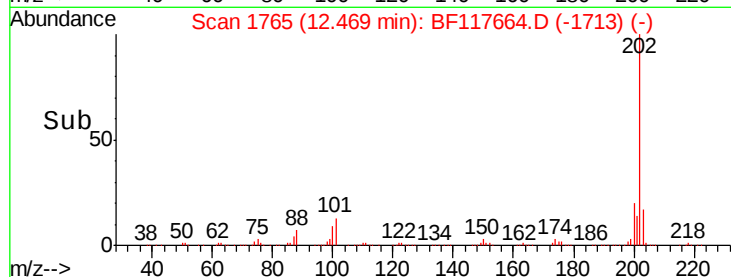
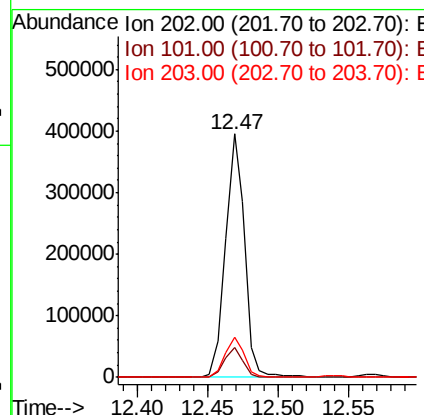
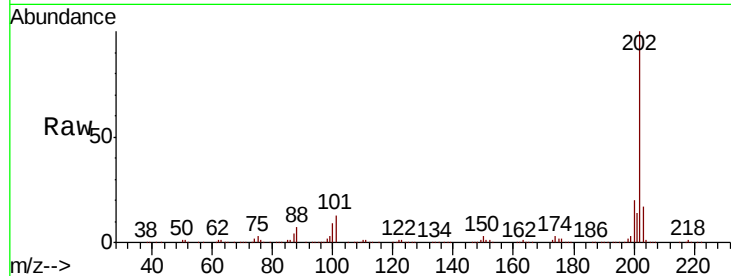
ClientSampleID :

STOCKPILEDL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	372752		
101	12.5	0.0	32.7	
203	16.5	0.0	37.6	

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:39 PM



#76

Chrysene-d12

Concen: 20.000 ng

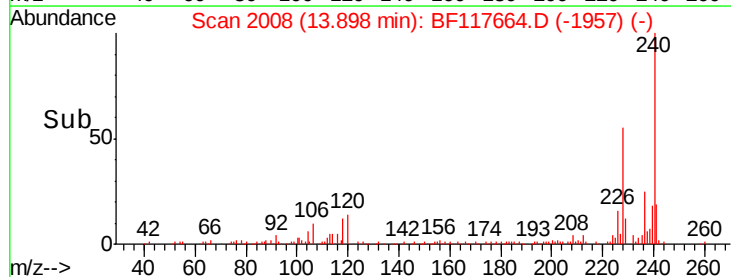
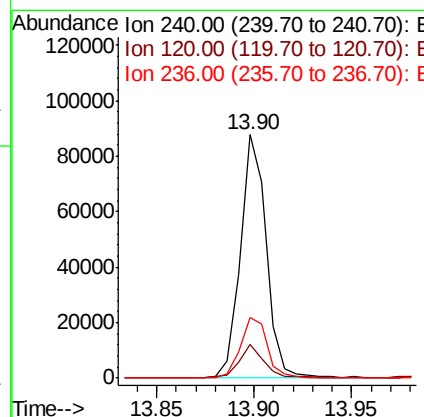
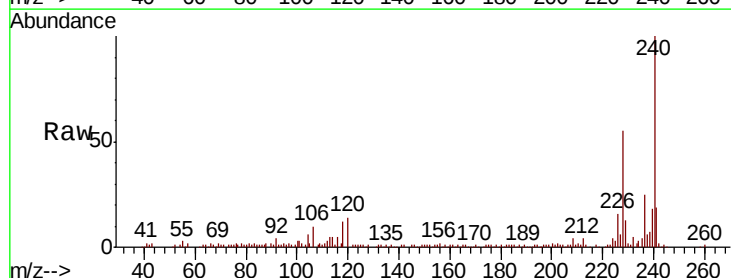
RT: 13.90 min Scan# 2008

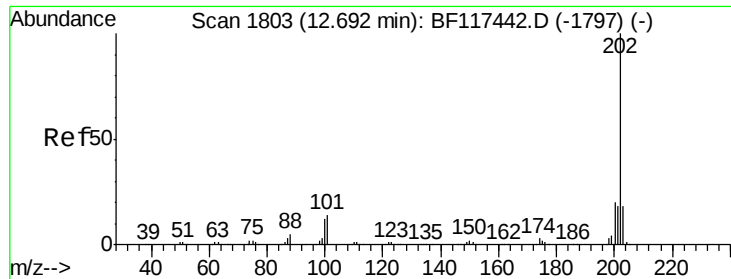
Delta R.T. 0.00 min

Lab File: BF117664.D

Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	80230		
120	14.0	8.4	12.6#	
236	25.0	20.0	30.0	





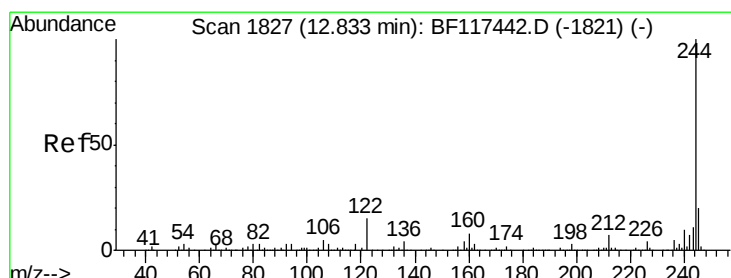
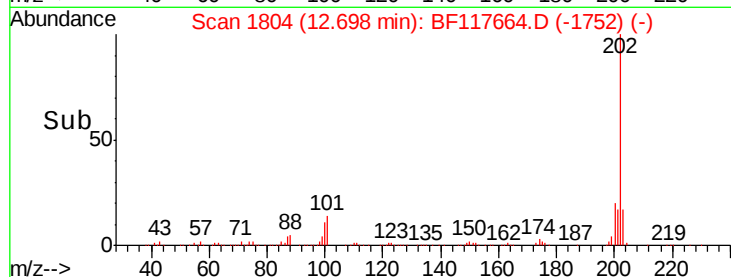
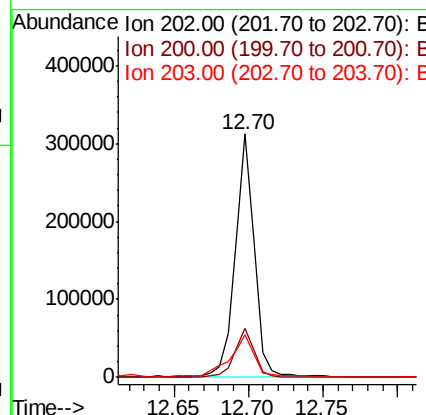
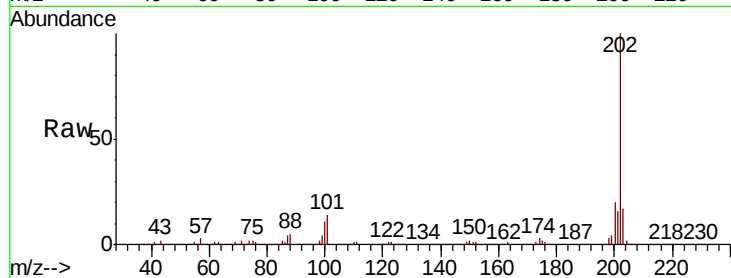
#78
Pvrene
Concen: 41.334 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleId :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.2	24.2
203	17.4	14.0	21.0

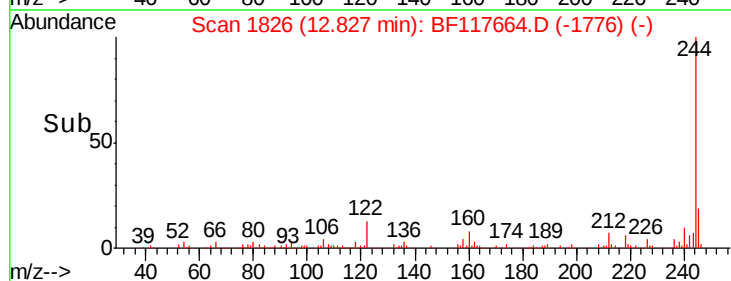
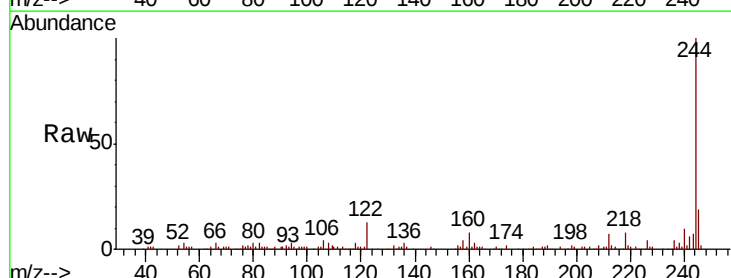
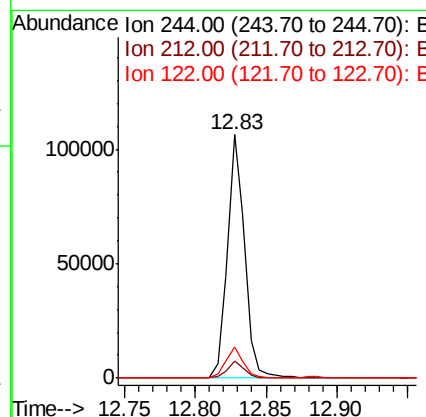
Manual Integrations
APPROVED

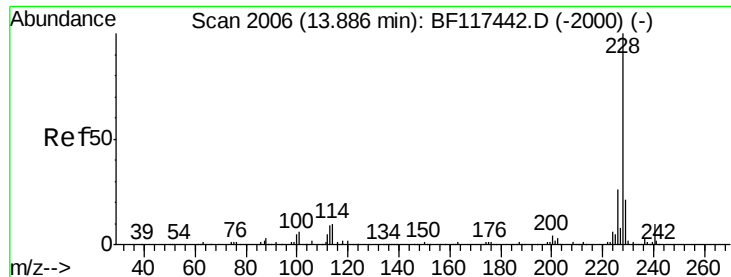
mohammad
11/1/2019 12:34:39 PM



#79
Terphenyl-d14
Concen: 18.332 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.6
122	13.0	11.8	17.8





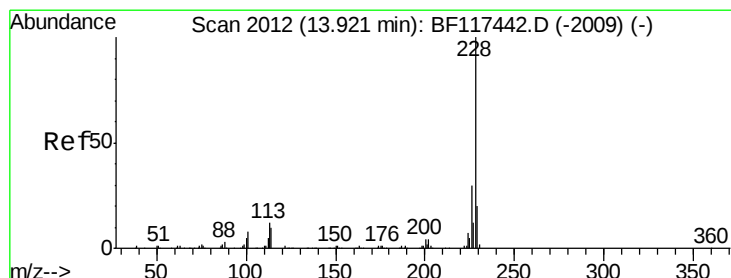
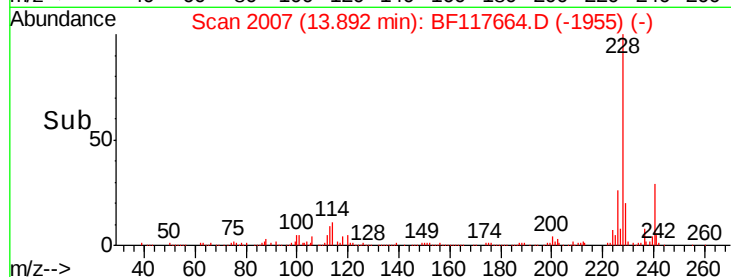
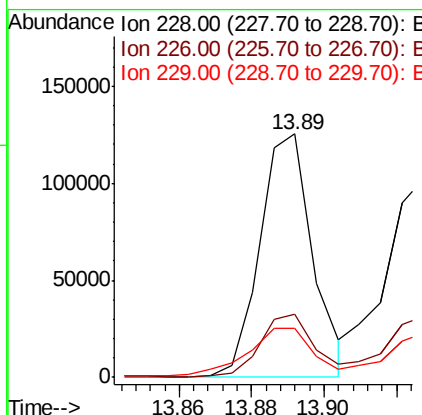
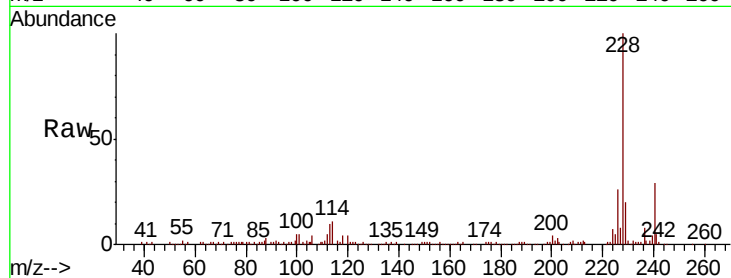
#81
Benzo(a)anthracene
Concen: 23.385 ng
RT: 13.89 min Scan# 2007
Delta R.T. 0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleId :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	25.9	21.0	31.4
229	20.2	16.4	24.6

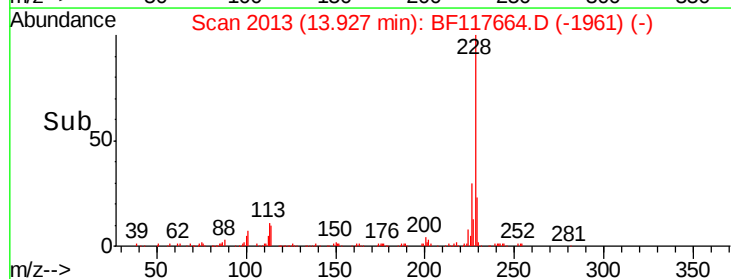
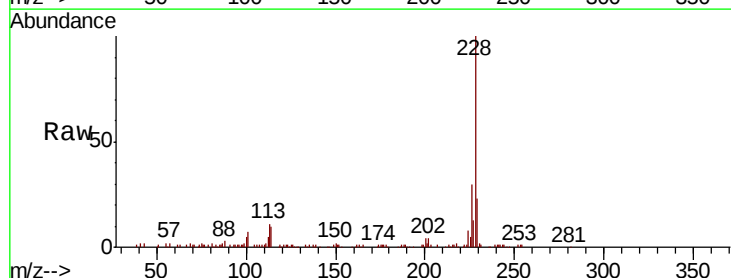
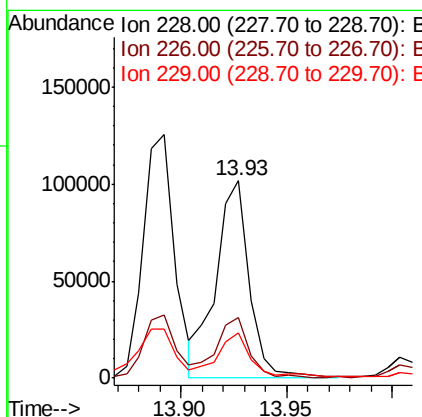
Manual Integrations
APPROVED

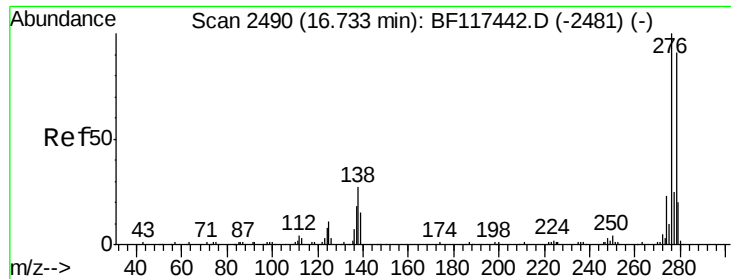
mohammad
11/1/2019 12:34:39 PM



#83
Chrysene
Concen: 20.852 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.9	35.9
229	22.8	15.8	23.6





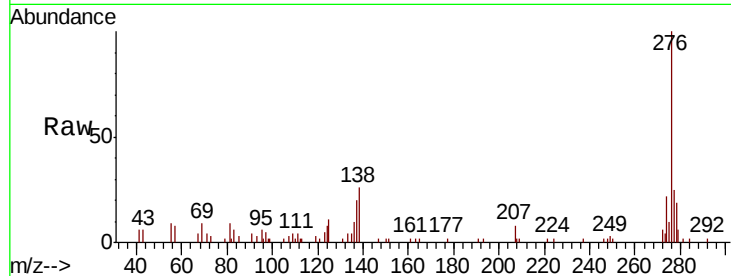
#86
Indeno(1,2,3-cd)pyrene
Concen: 9.962 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.03 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleId :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.0	21.8	32.8
277	25.3	20.0	30.0

Manual Integrations
APPROVED

mohammad
11/1/2019 12:34:39 PM

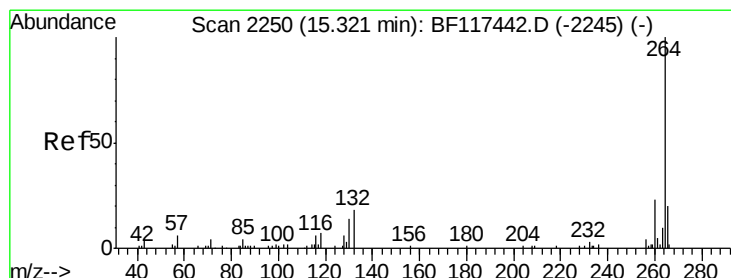
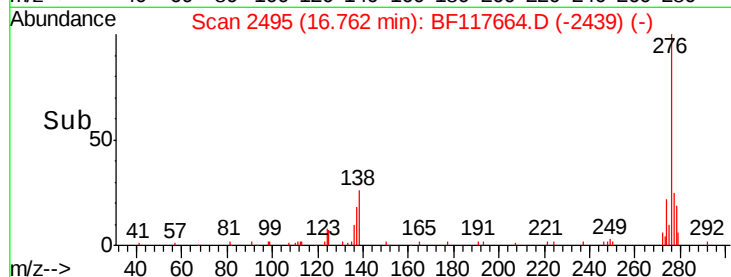
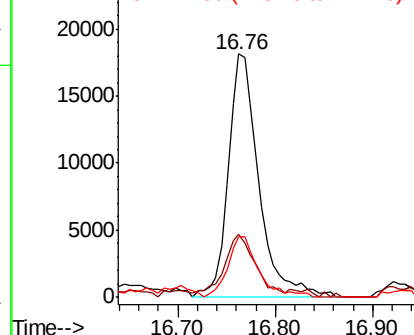


Abundance

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
Perylene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

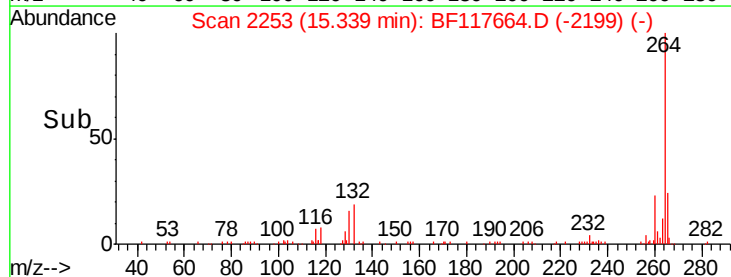
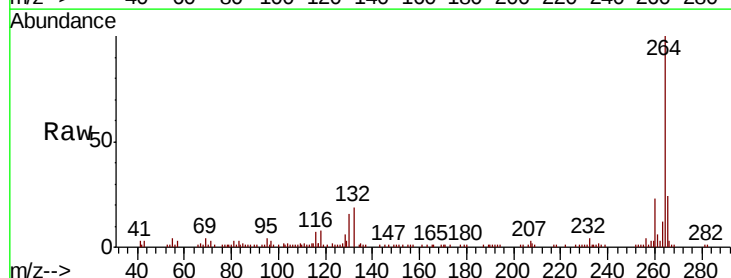
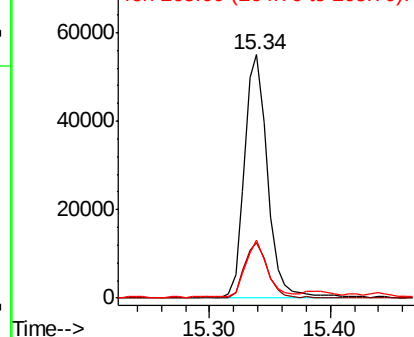
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.4	27.6
265	23.7	16.1	24.1

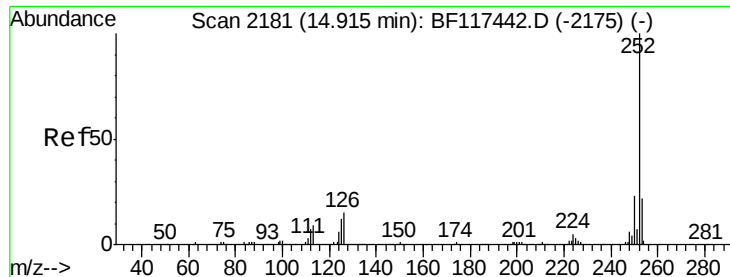
Abundance

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





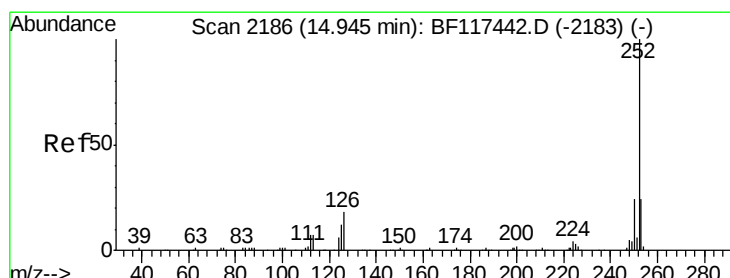
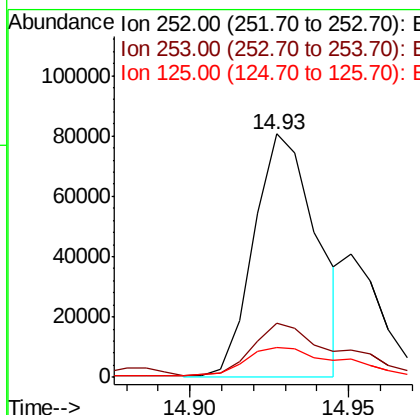
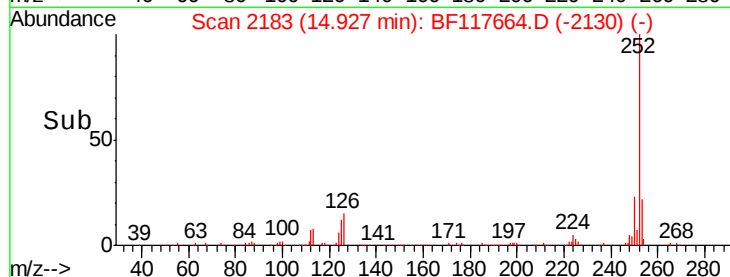
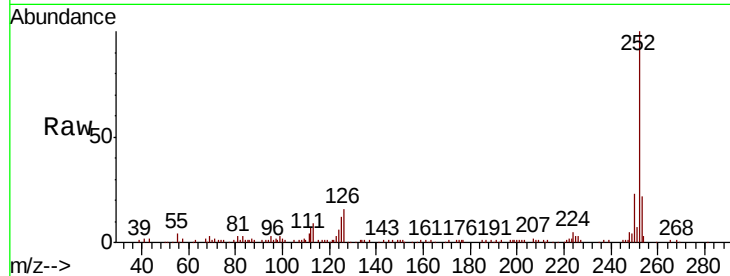
#88
Benzo(b)fluoranthene
Concen: 25.571 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleID :
STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	12.5	9.9	14.9

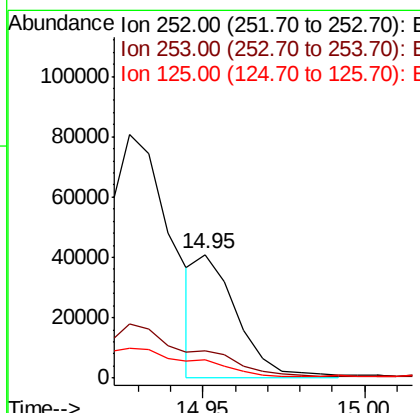
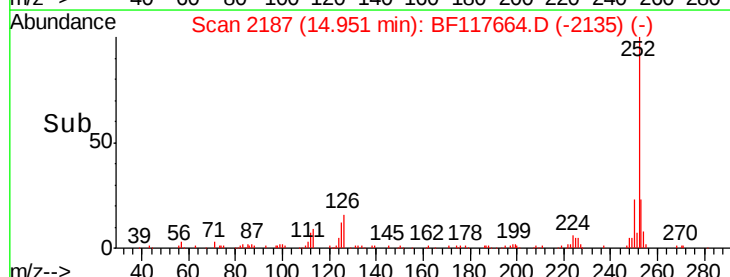
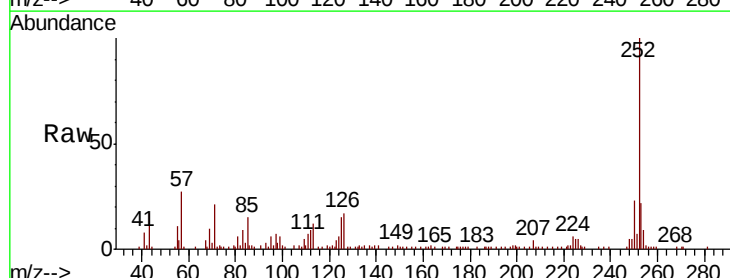
Manual Integrations
APPROVED

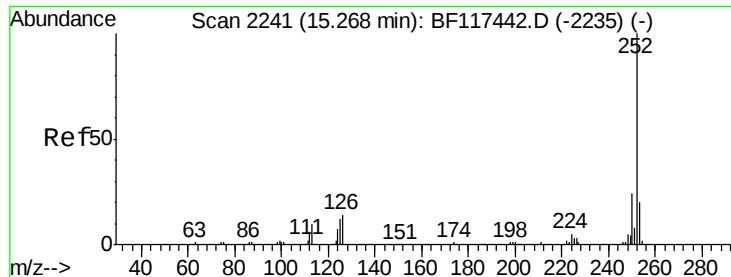
mohammad
11/1/2019 12:34:39 PM



#89
Benzo(k)fluoranthene
Concen: 7.971 ng m
RT: 14.95 min Scan# 2187
Delta R.T. 0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.0	27.0
125	14.6	8.9	13.3





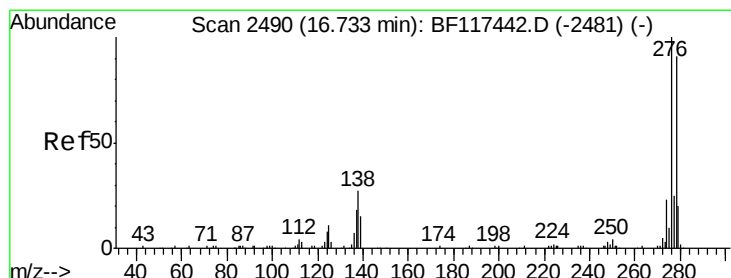
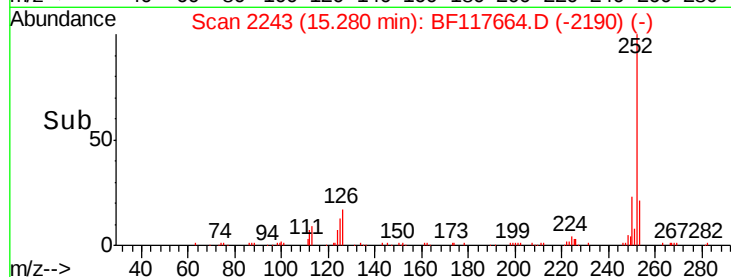
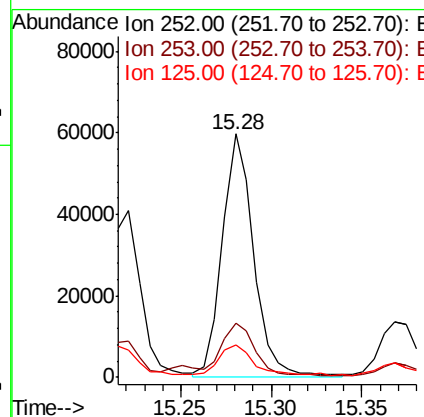
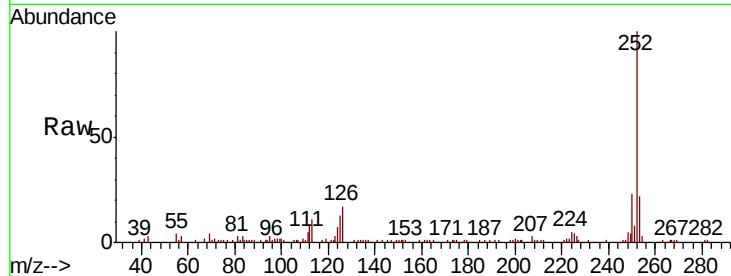
#90
Benzo(a)pyrene
Concen: 18.310 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Instrument :
BNA_F
ClientSampleId :
STOCKPIEDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	16.3	24.5
125	13.2	9.2	13.8

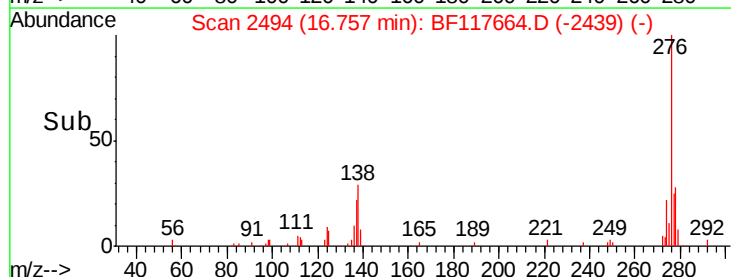
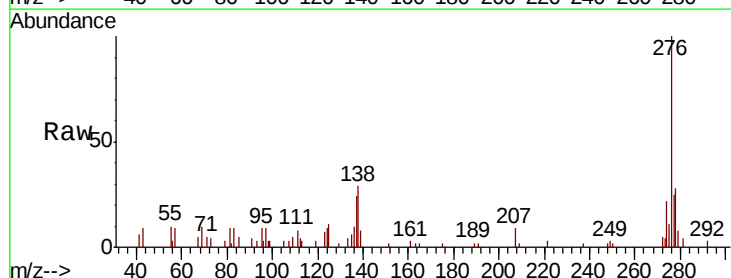
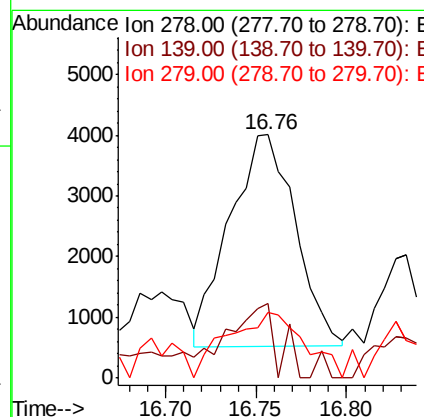
Manual Integrations
APPROVED

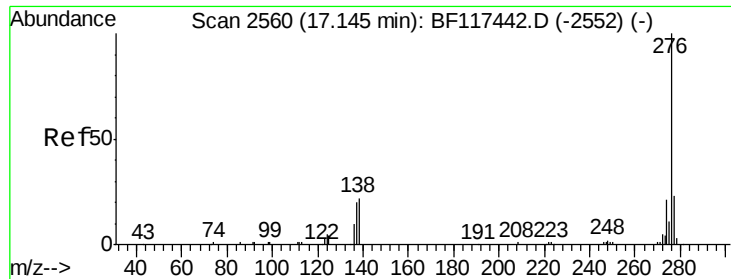
mohammad
11/1/2019 12:34:39 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.556 ng m
RT: 16.76 min Scan# 2494
Delta R.T. 0.02 min
Lab File: BF117664.D
Acq: 31 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	30.5	13.4	20.0#
279	27.1	17.8	26.6#





#92
 Benzo(a,h,i)perylene
 Concen: 9.944 ng
 RT: 17.20 min Scan# 2569
 Delta R.T. 0.05 min
 Lab File: BF117664.D
 Acq: 31 Oct 2019 17:59

Instrument :
 BNA_F
 ClientSampleId :
 STOCKPILEDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.4	27.6
138	26.9	17.8	26.6

Manual Integrations
 APPROVED

mohammad
 11/1/2019 12:34:39 PM

