

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082319\
 Data File : BF116497.D
 Acq On : 24 Aug 2019 00:25
 Operator : HP/JU
 Sample : K4403-16
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T1-J-(0-2.5)

Manual Integrations
 APPROVED

Jagrut
 8/28/2019 8:10:49 AM

Quant Time: Aug 24 04:45:21 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	142246	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	555276	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	270003	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	415102	20.00	ng	0.00
76) Chrysene-d12	14.03	240	234557	20.00	ng	0.00
87) Perylene-d12	15.50	264	234798	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	671067	68.93	ng	0.01
7) Phenol-d6	6.51	99	903631	75.70	ng	0.00
23) Nitrobenzene-d5	7.44	82	551762	54.36	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	156298	67.42	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	769584	45.90	ng	0.00
79) Terphenyl-d14	12.98	244	658768	52.46	ng	0.00
Target Compounds						
50) Dimethylphthalate	9.63	163	126506	6.715	ng	99
71) Phenanthrene	11.42	178	407283	18.011	ng	99
72) Anthracene	11.47	178	92733	4.081	ng	99
75) Fluoranthene	12.61	202	557767	23.858	ng	98
78) Pyrene	12.84	202	543584	28.979	ng	99
81) Benzo(a)anthracene	14.02	228	241283	15.883	ng	98
83) Chrysene	14.06	228	197469	12.825	ng	97
86) Indeno(1,2,3-cd)pyrene	16.96	276	89183	6.762	ng	95
88) Benzo(b)fluoranthene	15.07	252	220842m	15.226	ng	
89) Benzo(k)fluoranthene	15.10	252	60353m	4.593	ng	
90) Benzo(a)pyrene	15.44	252	147765	11.527	ng	# 95
91) Dibenzo(a,h)anthracene	16.97	278	23575	2.238	ng	# 65
92) Benzo(a,h,i)perylene	17.40	276	83002	8.265	ng	99

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

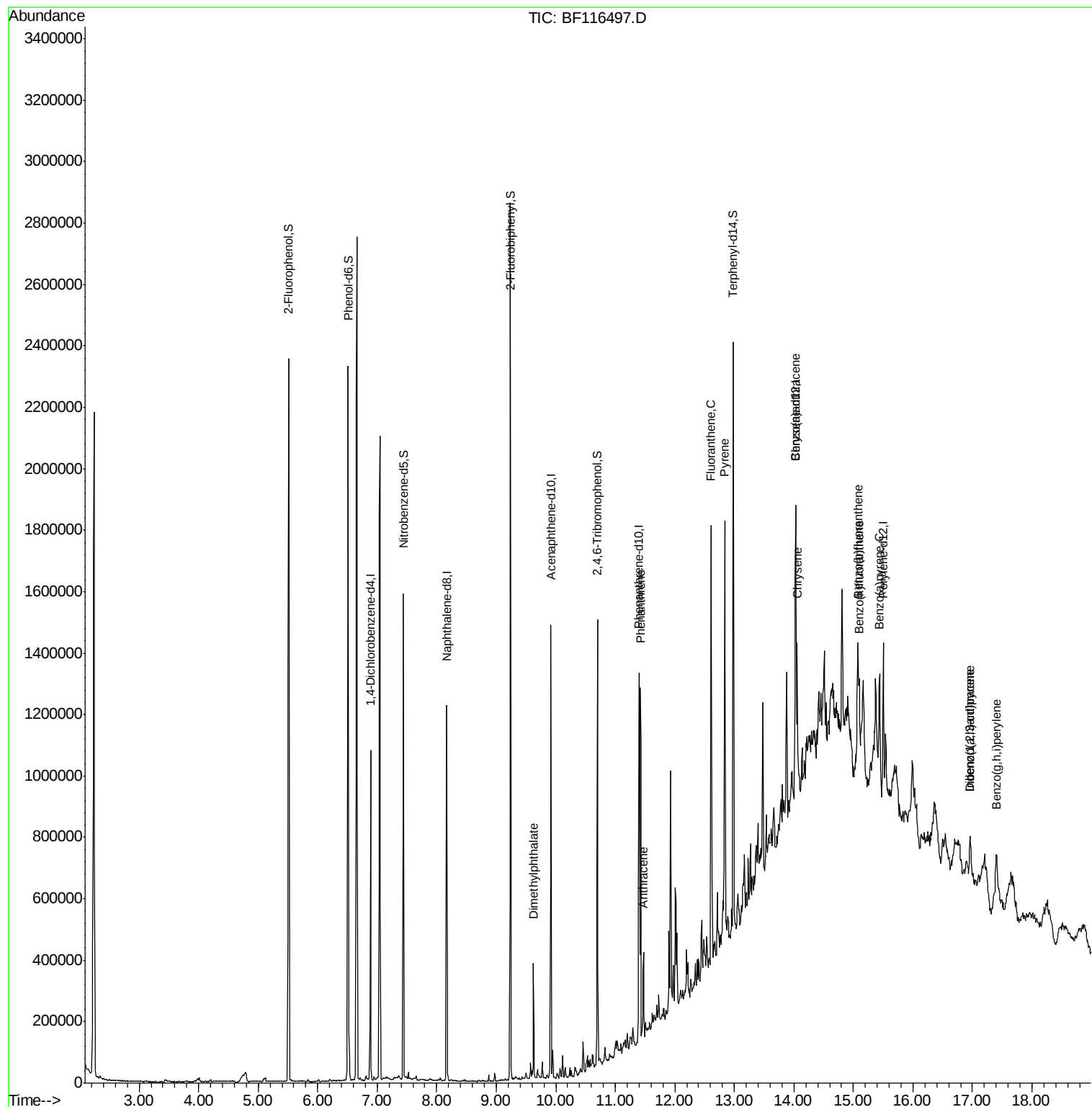
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082319\
Data File : BF116497.D
Acq On : 24 Aug 2019 00:25
Operator : HP/JU
Sample : K4403-16
Misc :
ALS Vial : 19 Sample Multiplier: 1

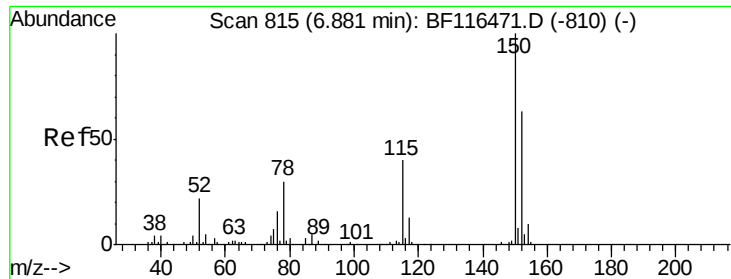
Instrument :
BNA_F
ClientSampled :
T1-J-(0-2.5)

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM

Quant Time: Aug 24 04:45:21 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 23 13:38:31 2019
Response via : Initial Calibration





#1

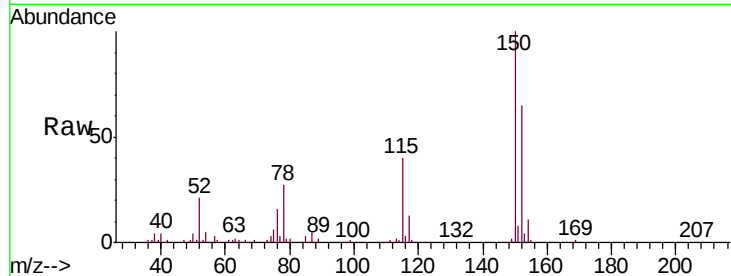
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Instrument :
BNA_F
ClientSampleId :
T1-J-(0-2.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	126.7	190.1
115	62.5	50.9	76.3

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM

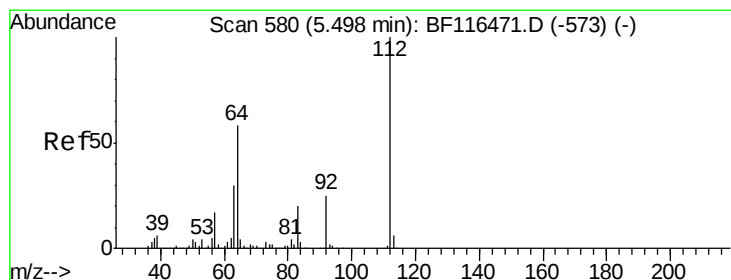
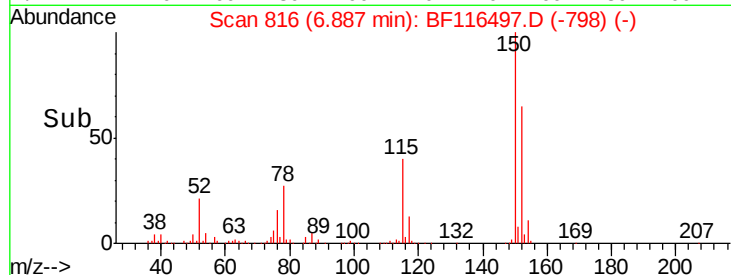
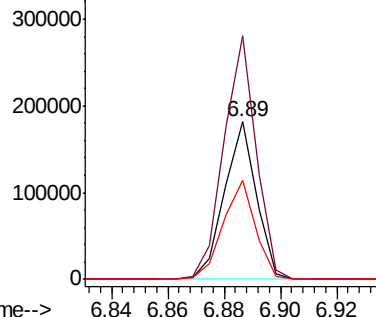


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

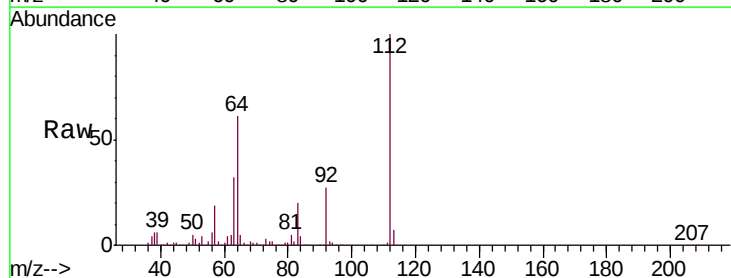
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 68.932 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.01 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.4	46.3	69.5
63	32.3	24.2	36.4

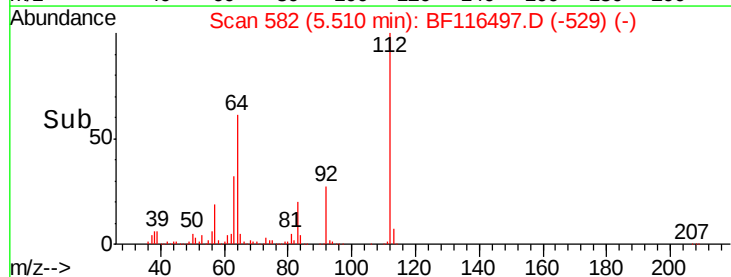
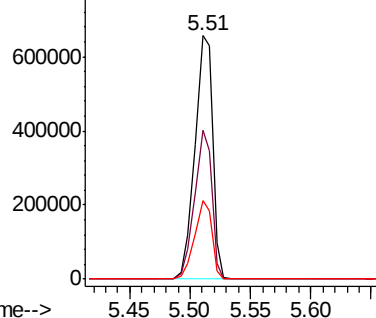


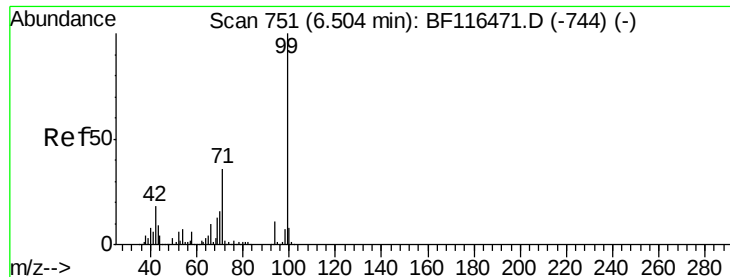
Abundance

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: 75.701 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Instrument :

BNA_F

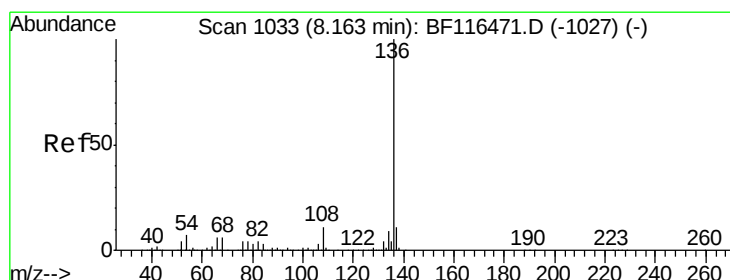
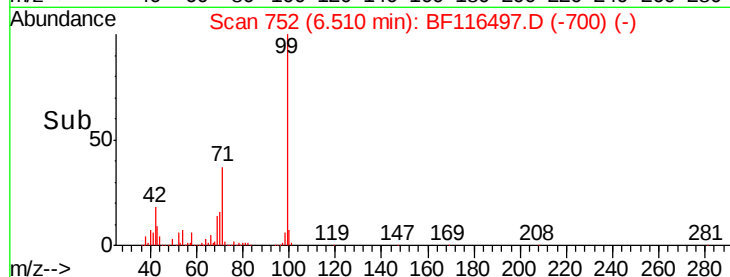
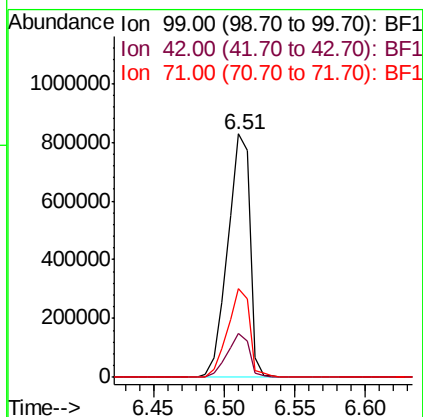
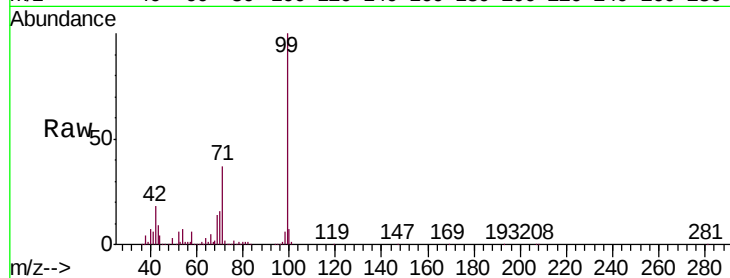
ClientSampled :

T1-J-(0-2.5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		903631		
42	18.1	14.6	21.8		
71	36.5	28.5	42.7		

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM



#21

Naphthalene-d8

Concen: 20.000 ng

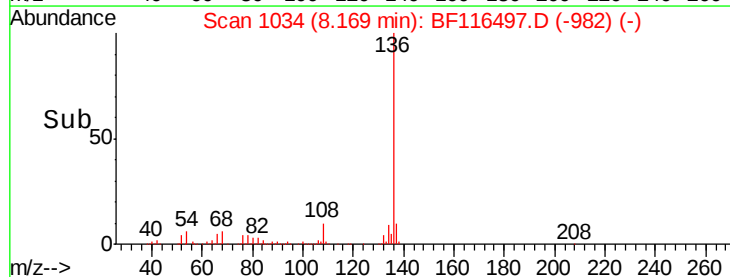
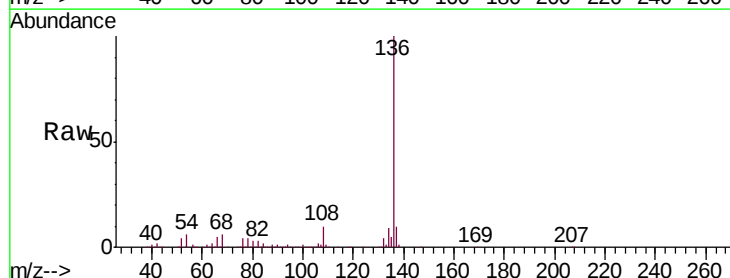
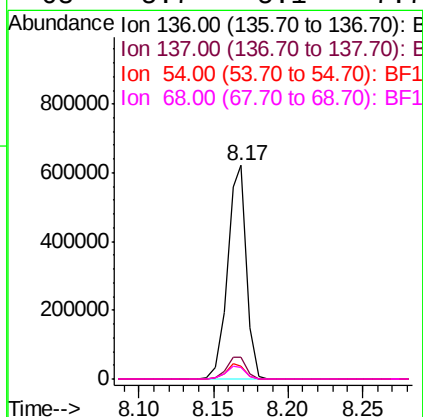
RT: 8.17 min Scan# 1034

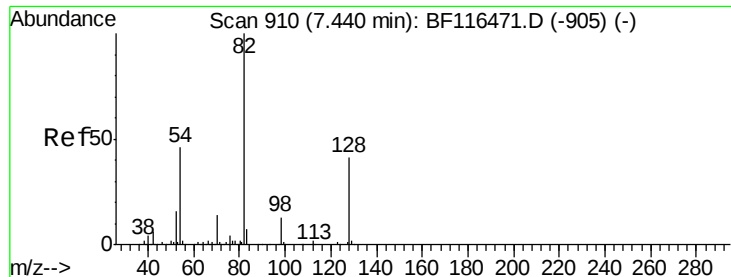
Delta R.T. 0.01 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		555276		
137	10.4	9.0	13.4		
54	6.1	5.8	8.6		
68	5.7	5.1	7.7		





#23

Nitrobenzene-d5

Concen: 54.364 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.00 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Instrument :

BNA_F

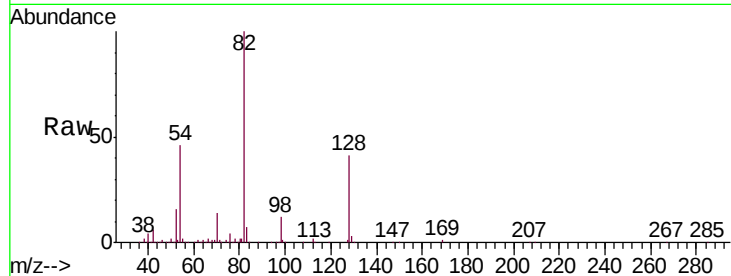
ClientSampleId :

T1-J-(0-2.5)

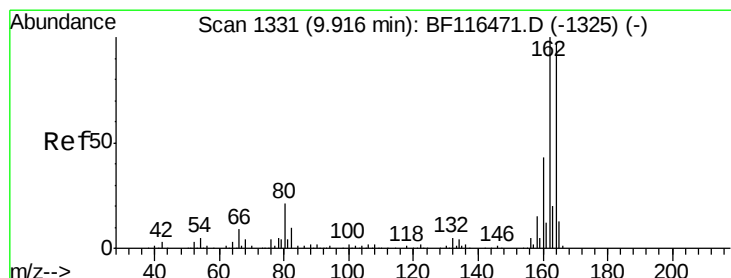
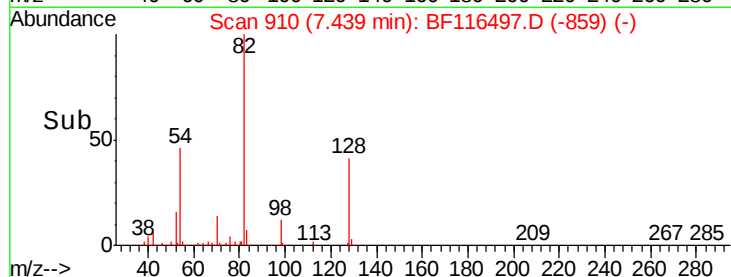
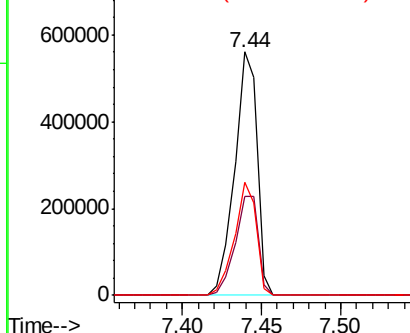
Tot Ion:	82	Resp:	551762
Ion Ratio	Lower	Upper	
82	100		
128	40.5	32.2	48.4
54	46.3	36.5	54.7

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

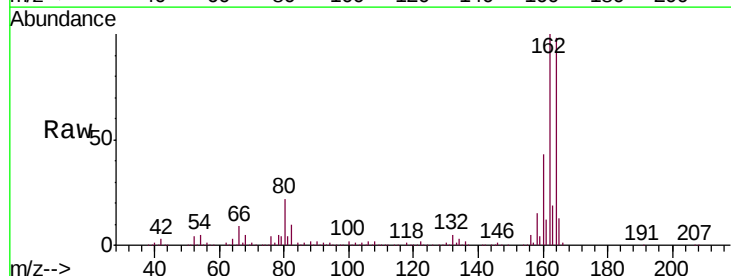
RT: 9.92 min Scan# 1331

Delta R.T. -0.00 min

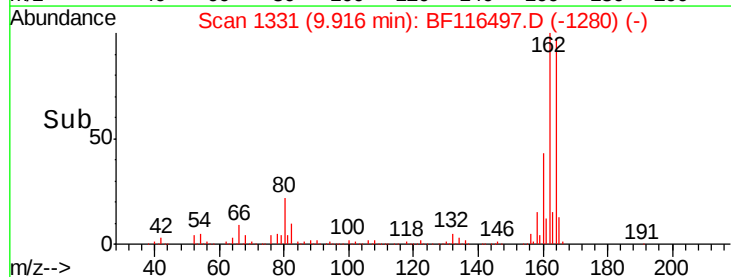
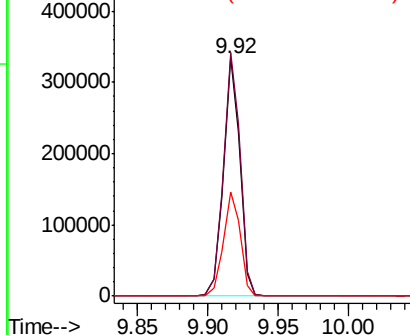
Lab File: BF116497.D

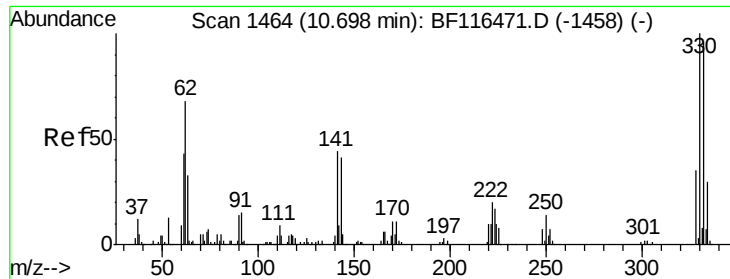
Acq: 24 Aug 2019 00:25

Tgt Ion:	164	Resp:	270003
Ion Ratio	Lower	Upper	
164	100		
162	102.3	82.6	123.8
160	43.7	35.8	53.8



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 67.415 ng

RT: 10.70 min Scan# 1465

Delta R.T. 0.01 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Instrument :

BNA_F

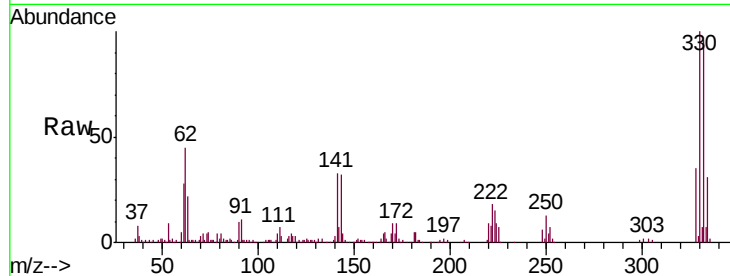
ClientSampled :

T1-J-(0-2.5)

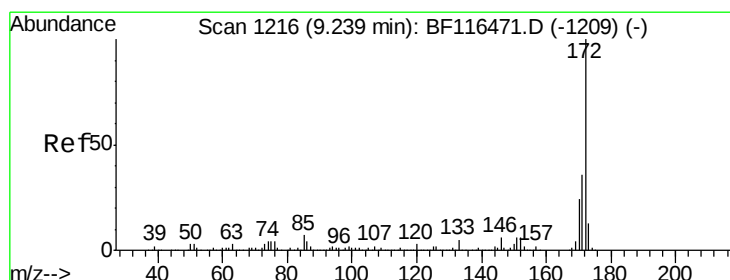
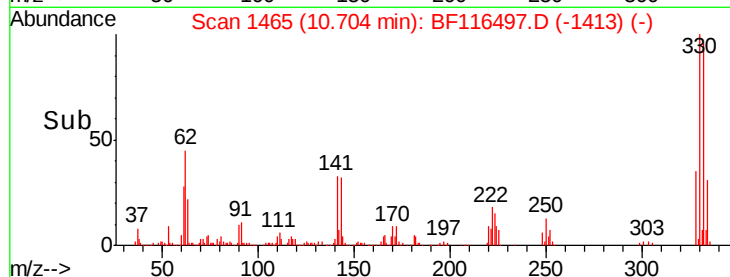
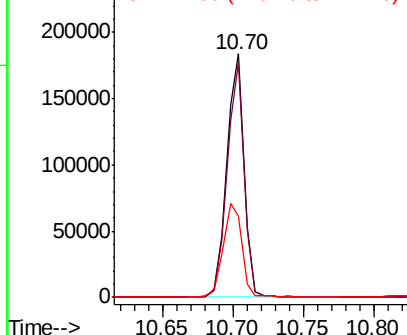
Tot Ion:	330	Resp:	156298
Ion Ratio	Lower	Upper	
330	100		
332	94.8	77.2	115.8
141	42.9	33.3	49.9

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM



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: 45.901 ng

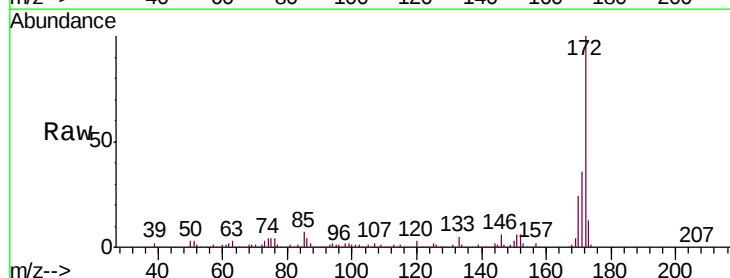
RT: 9.24 min Scan# 1216

Delta R.T. -0.00 min

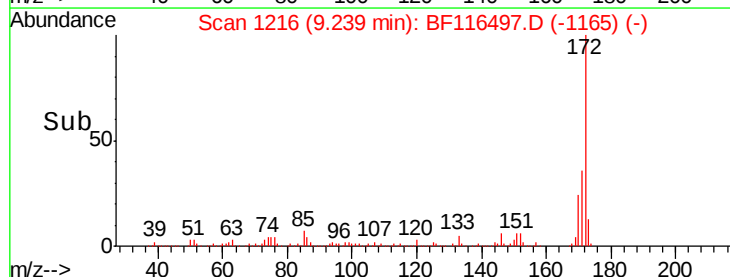
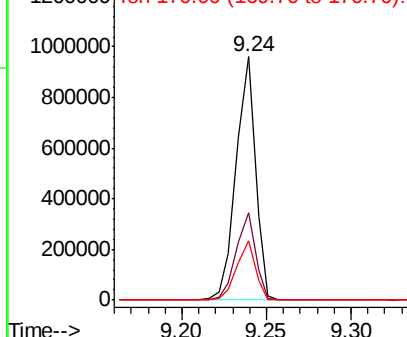
Lab File: BF116497.D

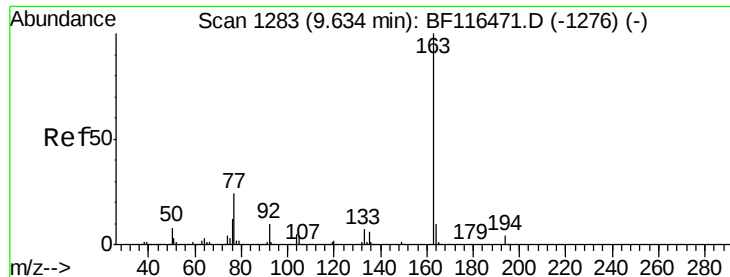
Acq: 24 Aug 2019 00:25

Tgt Ion:	172	Resp:	769584
Ion Ratio	Lower	Upper	
172	100		
171	36.0	28.9	43.3
170	24.3	19.4	29.0



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: 6.715 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Instrument :

BNA_F

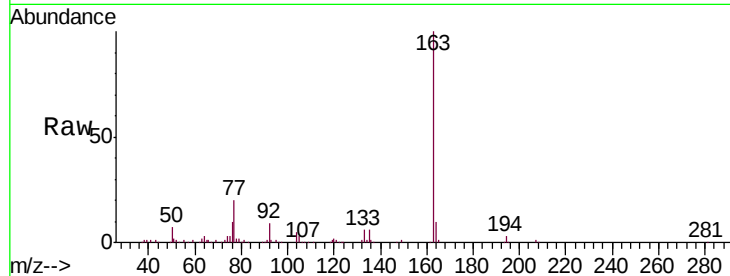
ClientSampleId :

T1-J-(0-2.5)

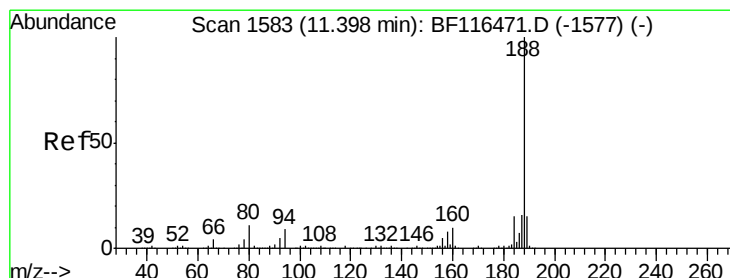
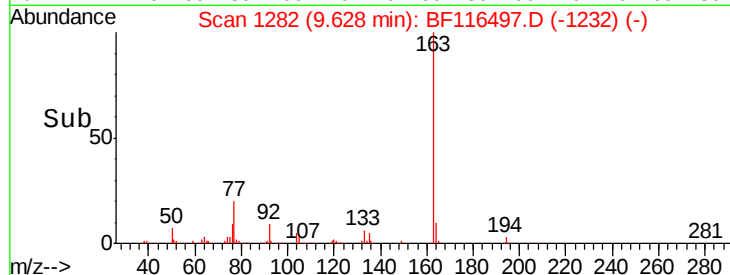
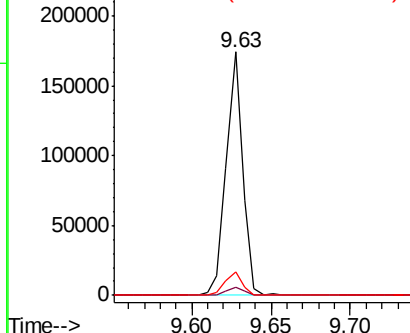
Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100		126506		
194	3.4		2.9	4.3	
164	9.9		8.2	12.2	

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

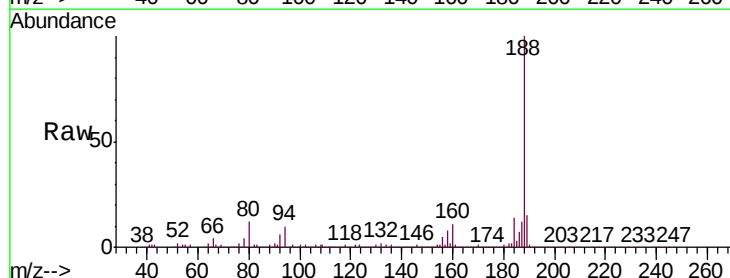
RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

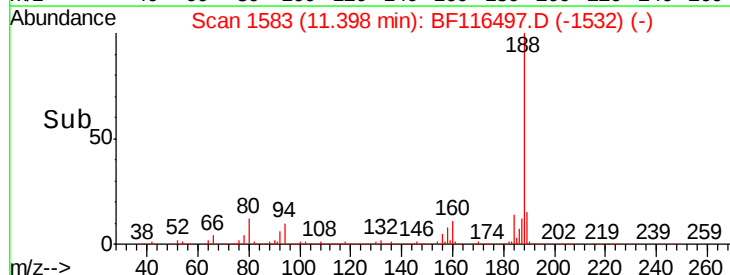
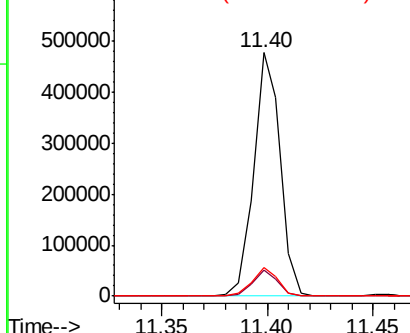
Lab File: BF116497.D

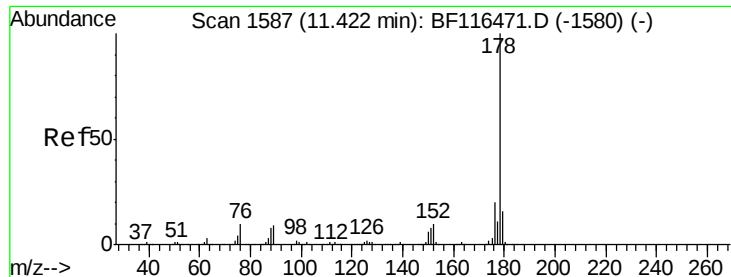
Acq: 24 Aug 2019 00:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		415102		
94	10.4		7.4	11.2	
80	11.7		8.6	12.8	



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: 18.011 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.00 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Instrument :

BNA_F

ClientSampleId :

T1-J-(0-2.5)

Tot Ion:178 Resp: 407283

Ion Ratio Lower Upper

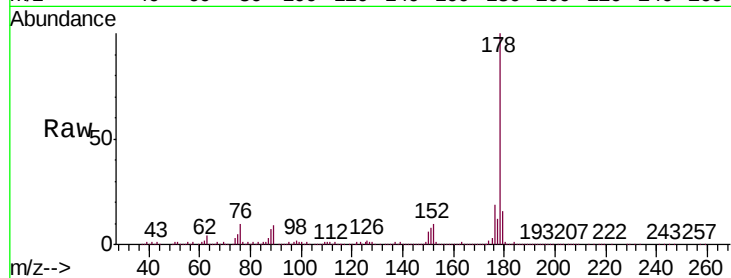
178 100

176 19.3 15.8 23.6

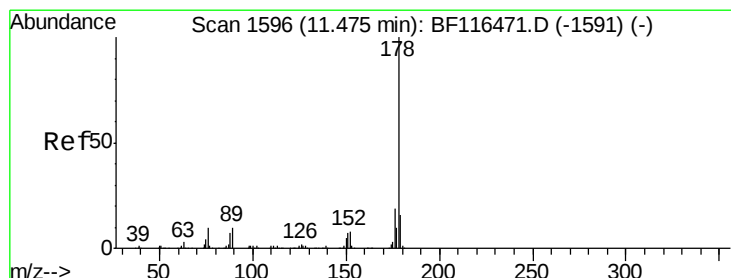
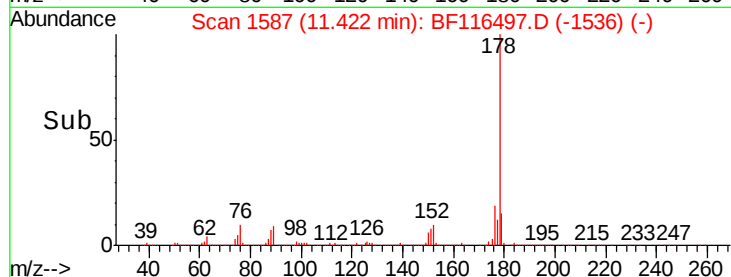
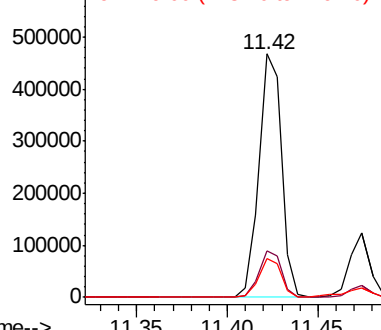
179 15.7 12.8 19.2

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM



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: 4.081 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

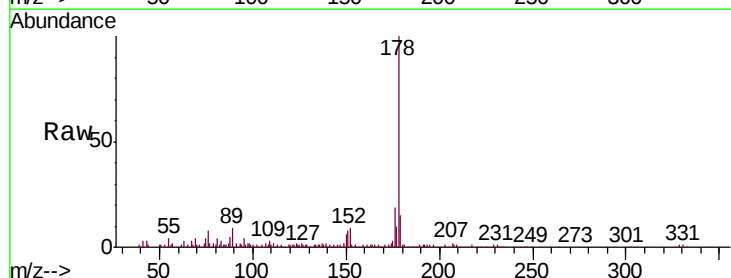
Tgt Ion:178 Resp: 92733

Ion Ratio Lower Upper

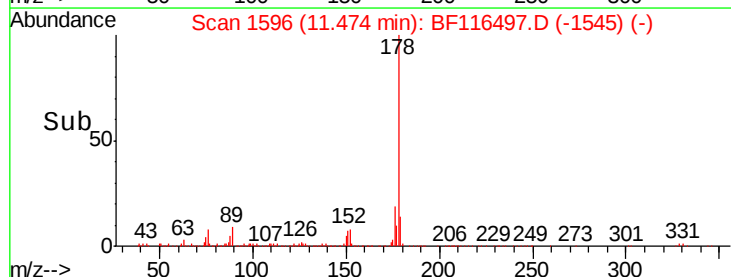
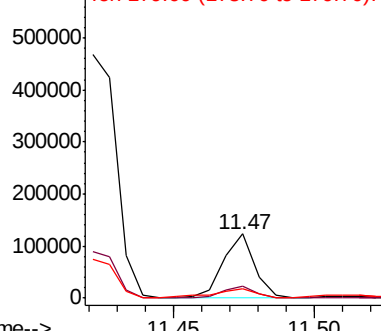
178 100

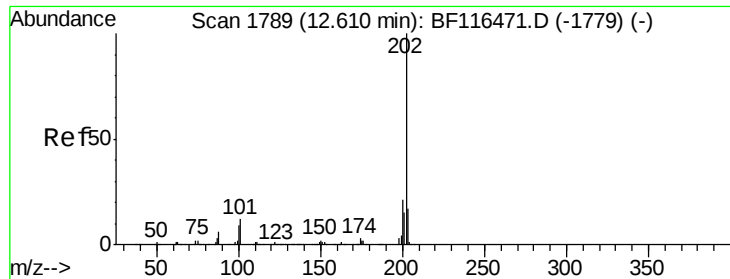
176 19.1 15.2 22.8

179 14.9 12.5 18.7



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





#75

Fluoranthene

Concen: 23.858 ng

RT: 12.61 min Scan# 1789

Delta R.T. -0.00 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Instrument :

BNA_F

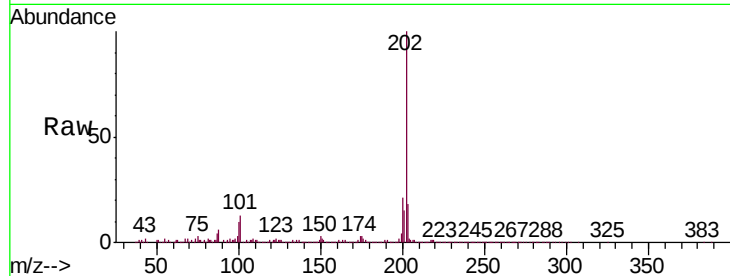
ClientSampleId :

T1-J-(0-2.5)

Tot Ion	Ratio	Resp	Lower	Upper
202	100	557767		
101	12.9	0.0	31.5	
203	17.8	0.0	37.5	

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM

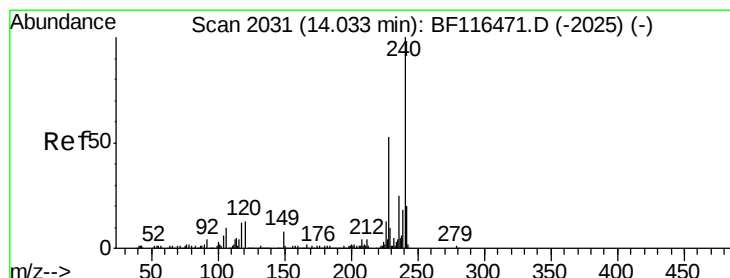
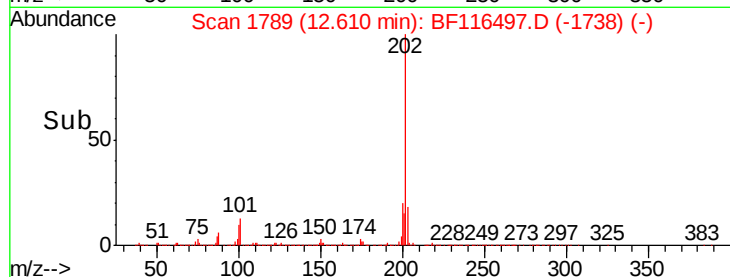
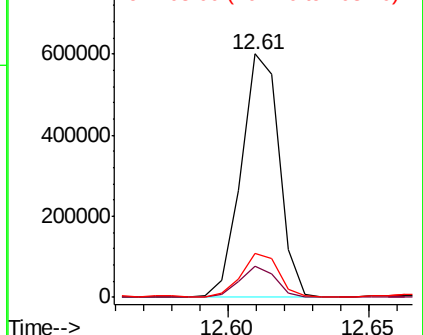


Abundance

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: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

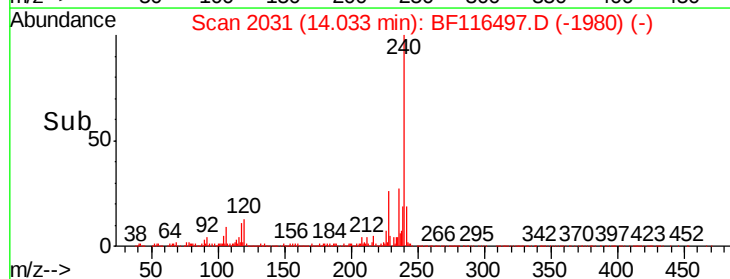
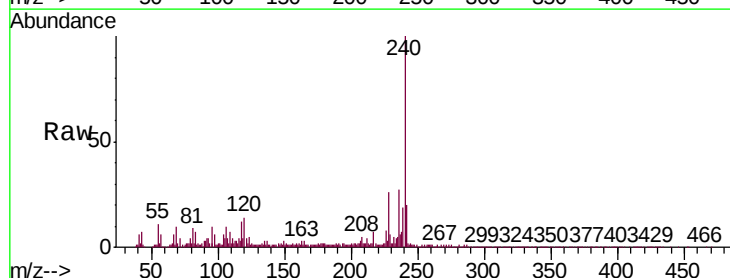
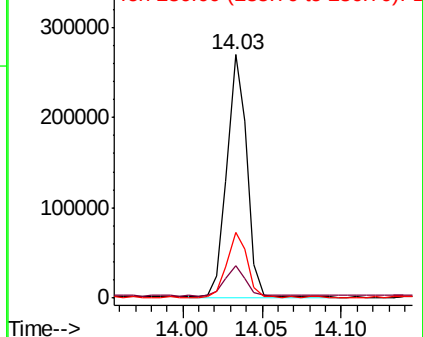
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	234557		
120	13.5	10.5	15.7	
236	26.9	20.2	30.2	

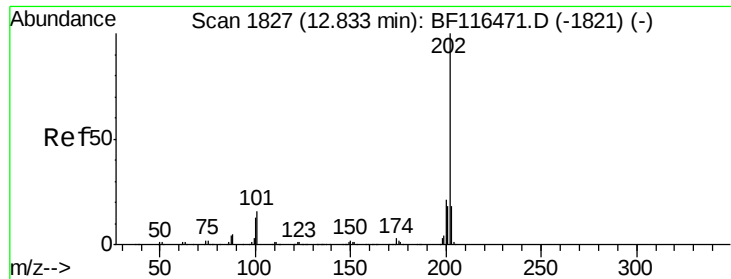
Abundance

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





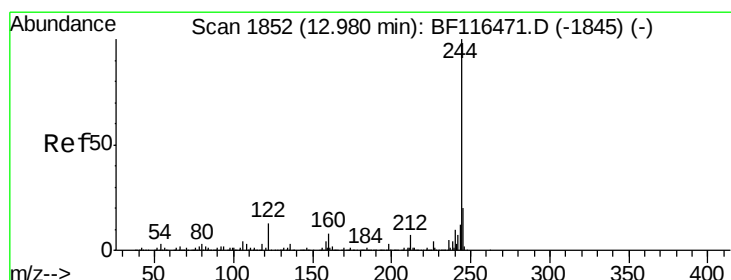
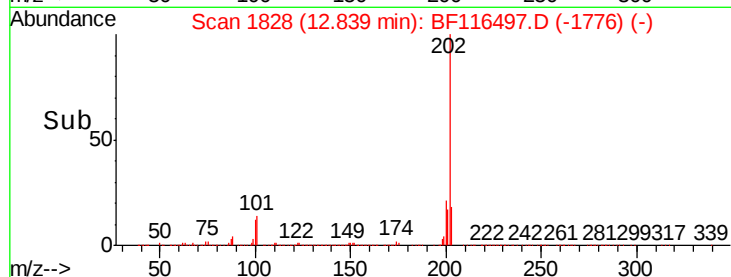
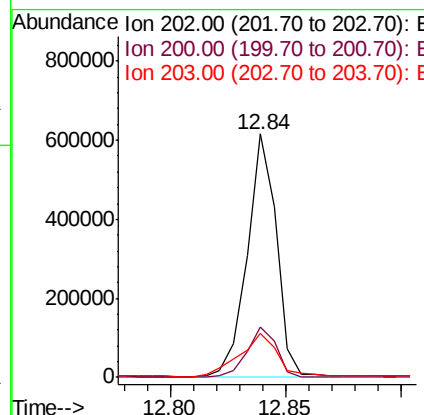
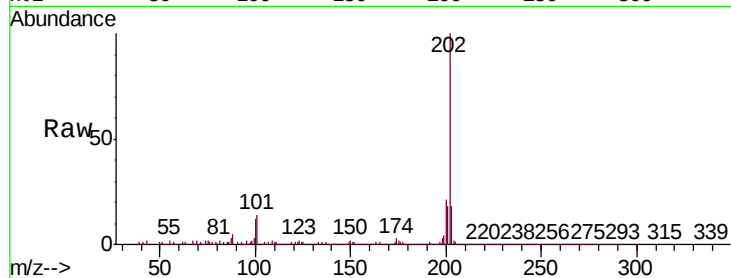
#78
Pvrene
Concen: 28.979 ng
RT: 12.84 min Scan# 1828
Delta R.T. 0.01 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Instrument :
BNA_F
ClientSampleId :
T1-J-(0-2.5)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.1	14.2	21.4

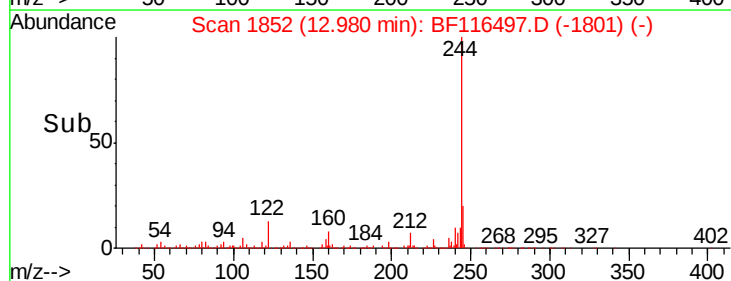
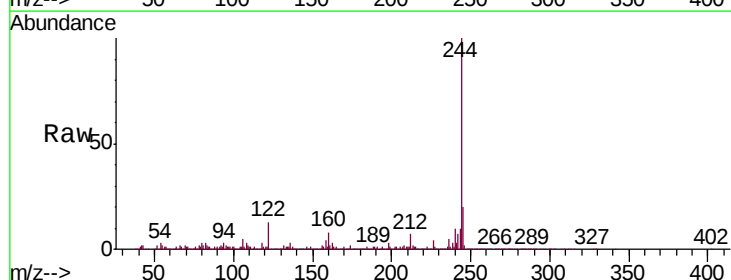
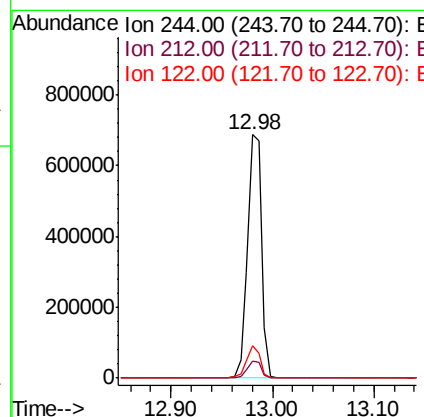
Manual Integrations
APPROVED

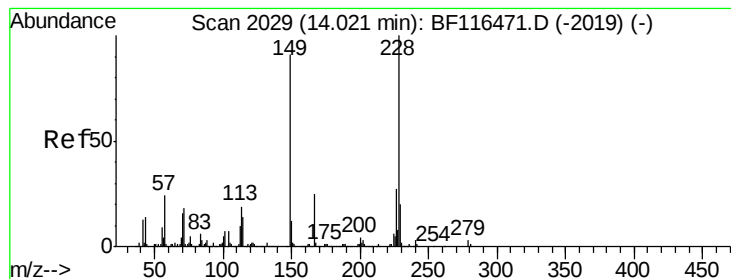
Jagrut
8/28/2019 8:10:49 AM



#79
Terphenyl-d14
Concen: 52.461 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.00 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.1	5.7	8.5
122	13.3	10.2	15.4





#81

Benzo(a)anthracene

Concen: 15.883 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Instrument :

BNA_F

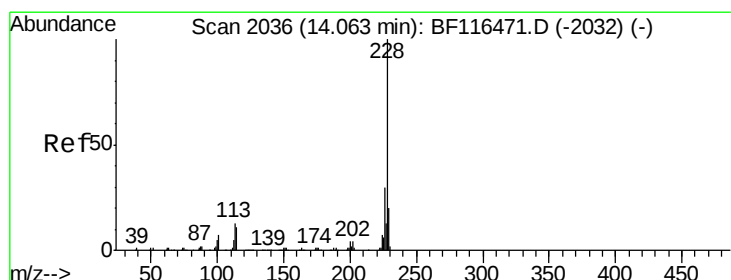
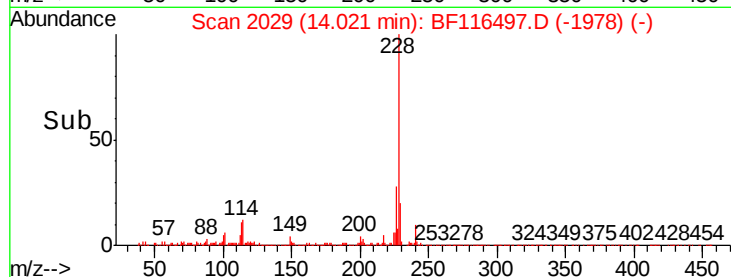
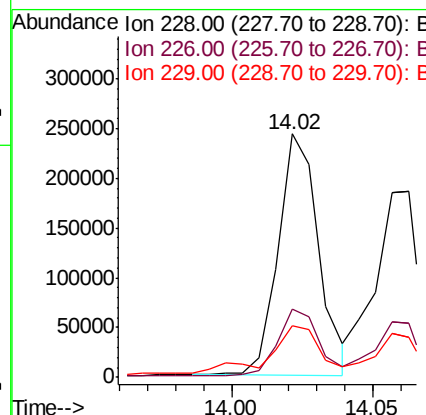
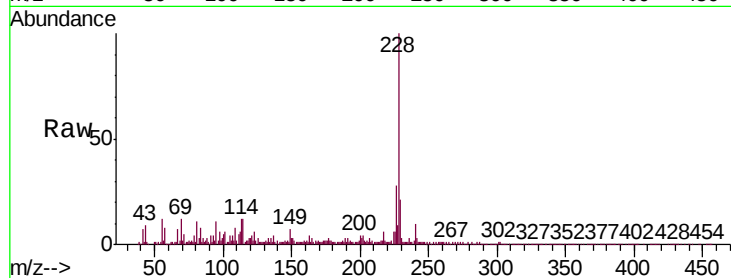
ClientSampleId :

T1-J-(0-2.5)

Tot Ion:	228	Resp:	241283
Ion Ratio	Lower	Upper	
228	100		
226	28.1	21.8	32.6
229	21.3	15.9	23.9

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM



#83

Chrysene

Concen: 12.825 ng

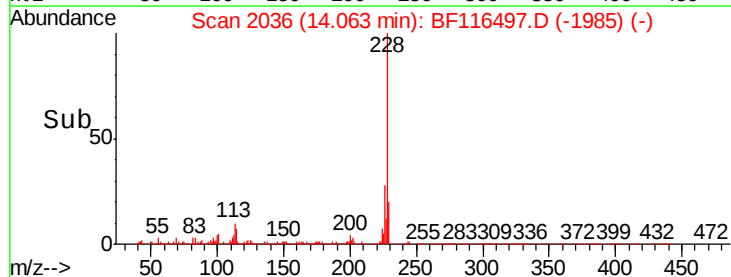
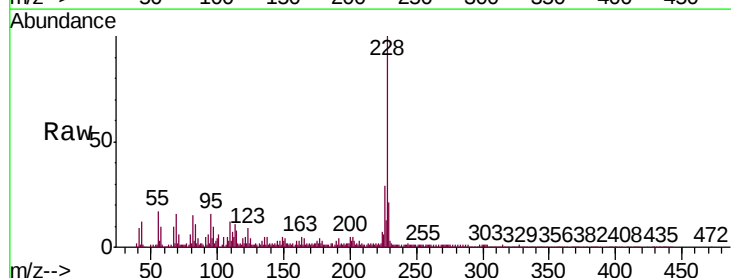
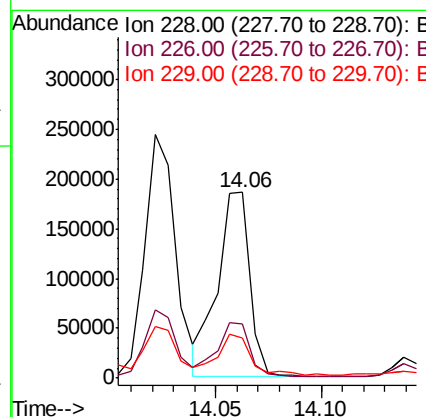
RT: 14.06 min Scan# 2036

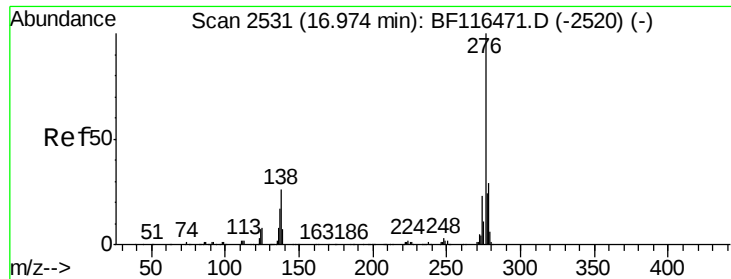
Delta R.T. -0.00 min

Lab File: BF116497.D

Acq: 24 Aug 2019 00:25

Tgt Ion:	228	Resp:	197469
Ion Ratio	Lower	Upper	
228	100		
226	29.0	24.2	36.2
229	21.4	15.8	23.6





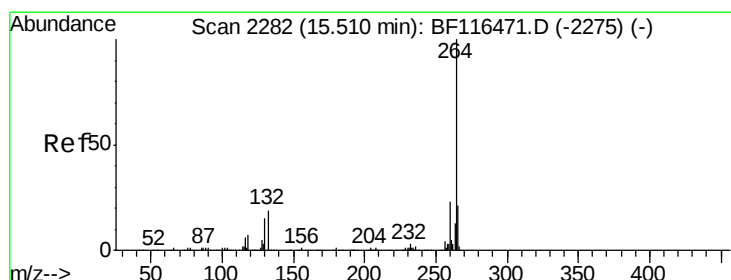
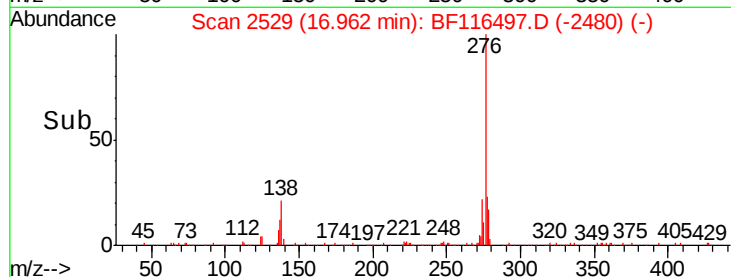
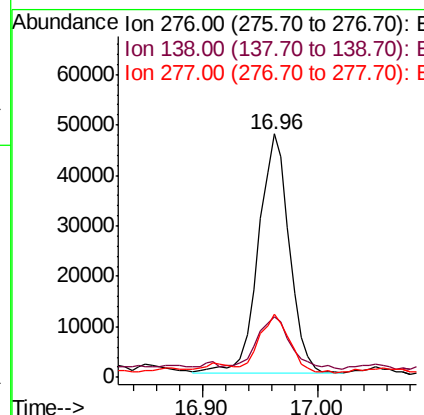
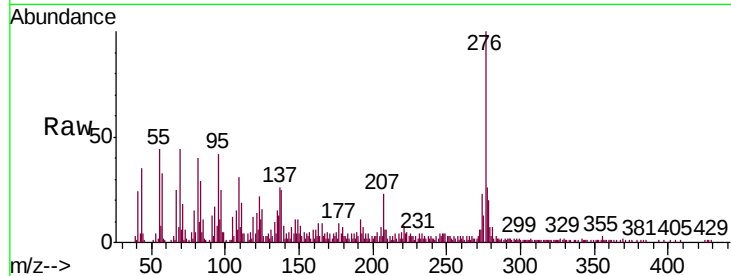
#86
Indeno(1,2,3-cd)pyrene
Concen: 6.762 ng
RT: 16.96 min Scan# 2529
Delta R.T. -0.01 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Instrument :
BNA_F
ClientSampleId :
T1-J-(0-2.5)

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.1	22.9	34.3
277	24.4	19.9	29.9

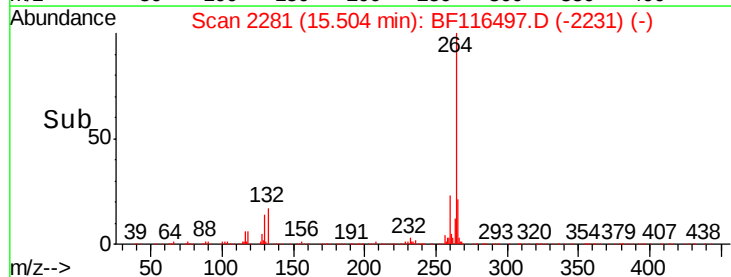
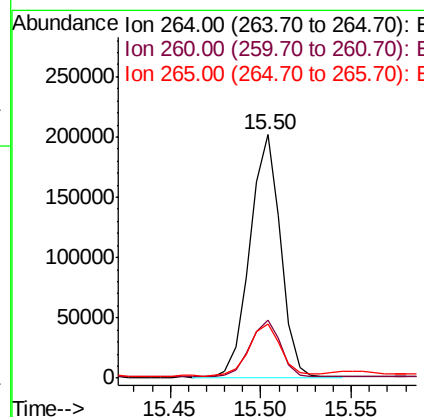
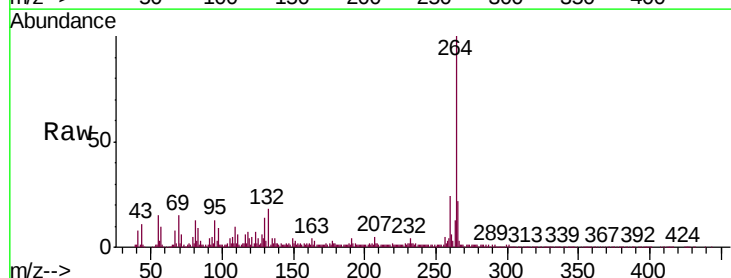
Manual Integrations
APPROVED

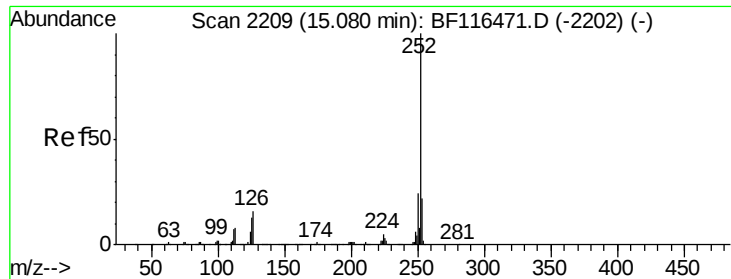
Jagrut
8/28/2019 8:10:49 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.01 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.8	28.2
265	22.1	17.1	25.7





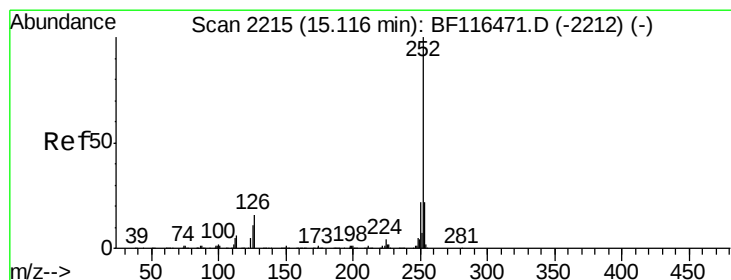
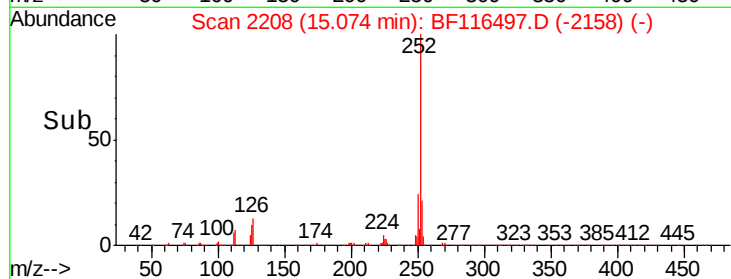
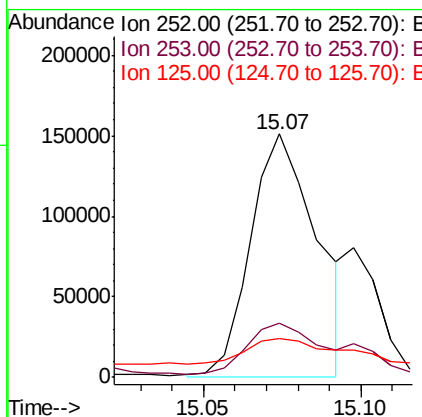
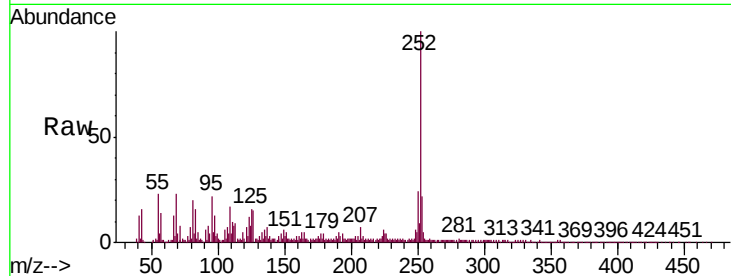
#88
Benzo(b)fluoranthene
Concen: 15.226 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.01 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Instrument :
BNA_F
ClientSampleId :
T1-J-(0-2.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	16.1	10.1	15.1

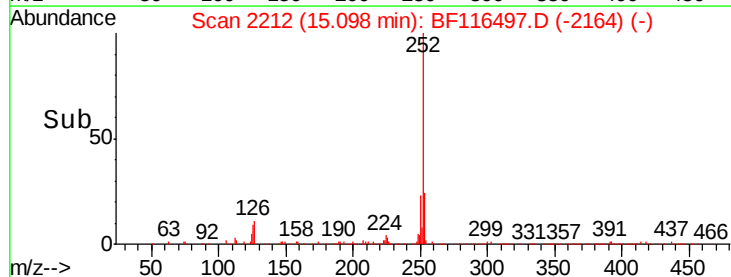
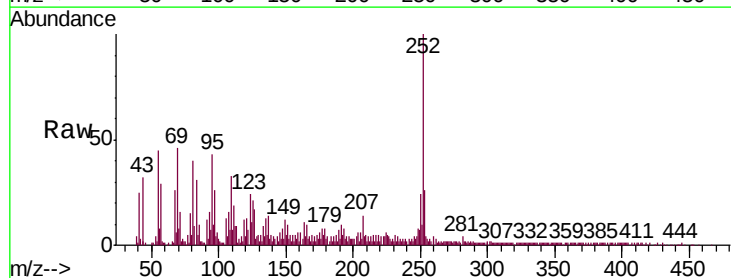
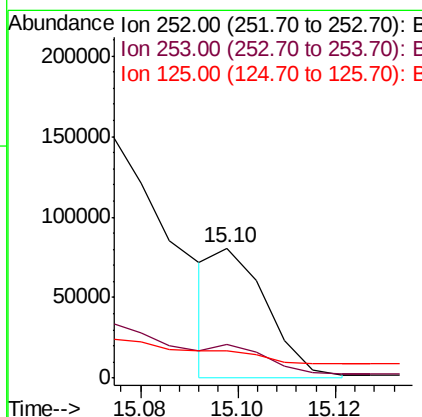
Manual Integrations
APPROVED

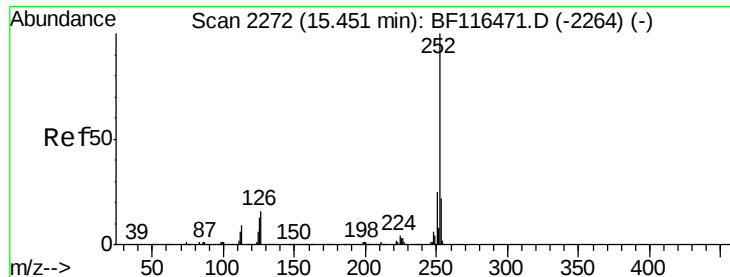
Jagrut
8/28/2019 8:10:49 AM



#89
Benzo(k)fluoranthene
Concen: 4.593 ng m
RT: 15.10 min Scan# 2212
Delta R.T. -0.02 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.9	17.4	26.2
125	20.8	9.1	13.7





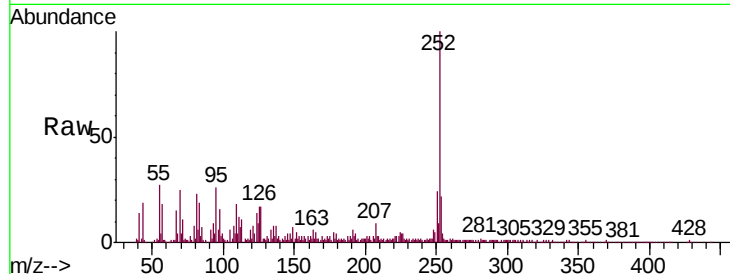
#90
Benzo(a)pyrene
Concen: 11.527 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Instrument :
BNA_F
ClientSampleId :
T1-J-(0-2.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.2	25.8
125	16.8	10.2	15.4

Manual Integrations
APPROVED

Jagrut
8/28/2019 8:10:49 AM

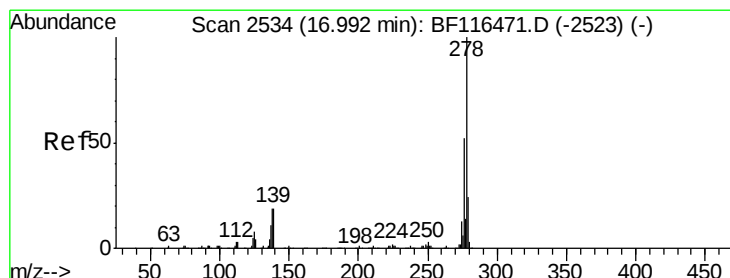
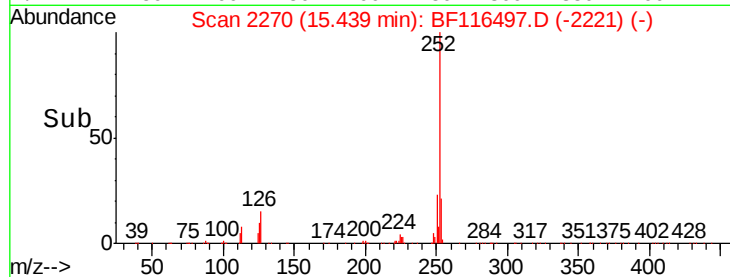
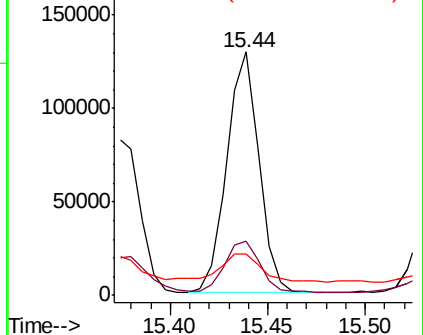


Abundance

Ion 252.00 (251.70 to 252.70): E

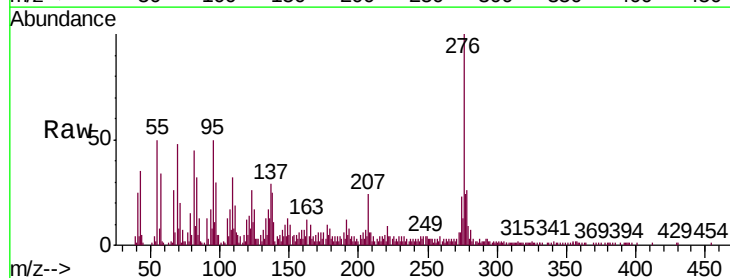
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 2.238 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.02 min
Lab File: BF116497.D
Acq: 24 Aug 2019 00:25

Tgt Ion	Ratio	Lower	Upper
278	100		
139	42.1	15.3	22.9
279	34.6	19.0	28.6

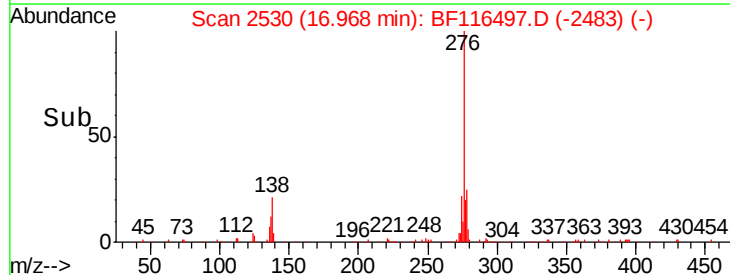
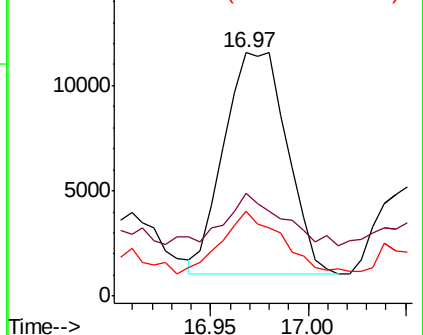


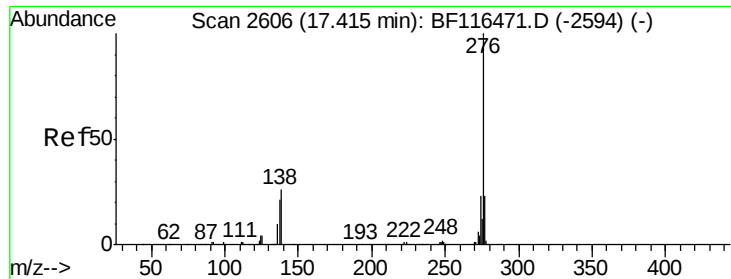
Abundance

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(a,h,i)perylene
 Concen: 8.265 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. -0.01 min
 Lab File: BF116497.D
 Acq: 24 Aug 2019 00:25

Instrument :
 BNA_F
 ClientSampleId :
 T1-J-(0-2.5)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.7	28.1
138	26.2	20.8	31.2

Manual Integrations
 APPROVED

Jagrut
 8/28/2019 8:10:49 AM

