

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042419\
 Data File : BF113967.D
 Acq On : 24 Apr 2019 17:48
 Operator : JU/SJ
 Sample : K2200-07 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-042319-A

Manual Integrations
 APPROVED

Sohil
 4/25/2019 5:27:04 PM

Quant Time: Apr 25 10:13:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 23 03:32:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	135943	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	528569	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	258947	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	443897	20.00	ng	0.00
76) Chrysene-d12	14.05	240	341425	20.00	ng	-0.02
87) Perylene-d12	15.53	264	429222	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	414810	52.19	ng	0.00
7) Phenol-d6	6.52	99	546542	54.81	ng	0.00
23) Nitrobenzene-d5	7.45	82	319626	37.34	ng	0.00
42) 2,4,6-Tribromophenol	10.72	330	142555	45.19	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	604452	36.51	ng	0.00
79) Terphenyl-d14	12.99	244	506199	30.40	ng	-0.01
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.89	142	45820	2.706	ng	99
38) 1-Methylnaphthalene	8.99	142	48501m	2.968	ng	
49) Acenaphthylene	9.79	152	118319	4.698	ng	99
50) Dimethylphthalate	9.64	163	86564	4.622	ng	98
52) Acenaphthene	9.96	154	38387	2.579	ng	92
55) Dibenzofuran	10.13	168	92083	4.130	ng	# 97
58) Fluorene	10.47	166	180408	10.748	ng	99
71) Phenanthrene	11.44	178	1133323	50.803	ng	99
72) Anthracene	11.49	178	248210	11.018	ng	99
73) Carbazole	11.64	167	55902	2.781	ng	99
75) Fluoranthene	12.63	202	1033797	42.475	ng	99
78) Pyrene	12.86	202	958457	40.143	ng	99
81) Benzo(a)anthracene	14.04	228	525816	26.139	ng	96
83) Chrysene	14.08	228	484351	24.723	ng	97
86) Indeno(1,2,3-cd)pyrene	17.02	276	246767m	13.298	ng	
88) Benzo(b)fluoranthene	15.10	252	591417m	21.778	ng	
89) Benzo(k)fluoranthene	15.12	252	208229m	8.914	ng	
90) Benzo(a)pyrene	15.47	252	440963	18.773	ng	98
91) Dibenzo(a,h)anthracene	17.03	278	67240	3.049	ng	# 91
92) Benzo(a,h,i)perylene	17.46	276	204169	9.175	ng	99

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

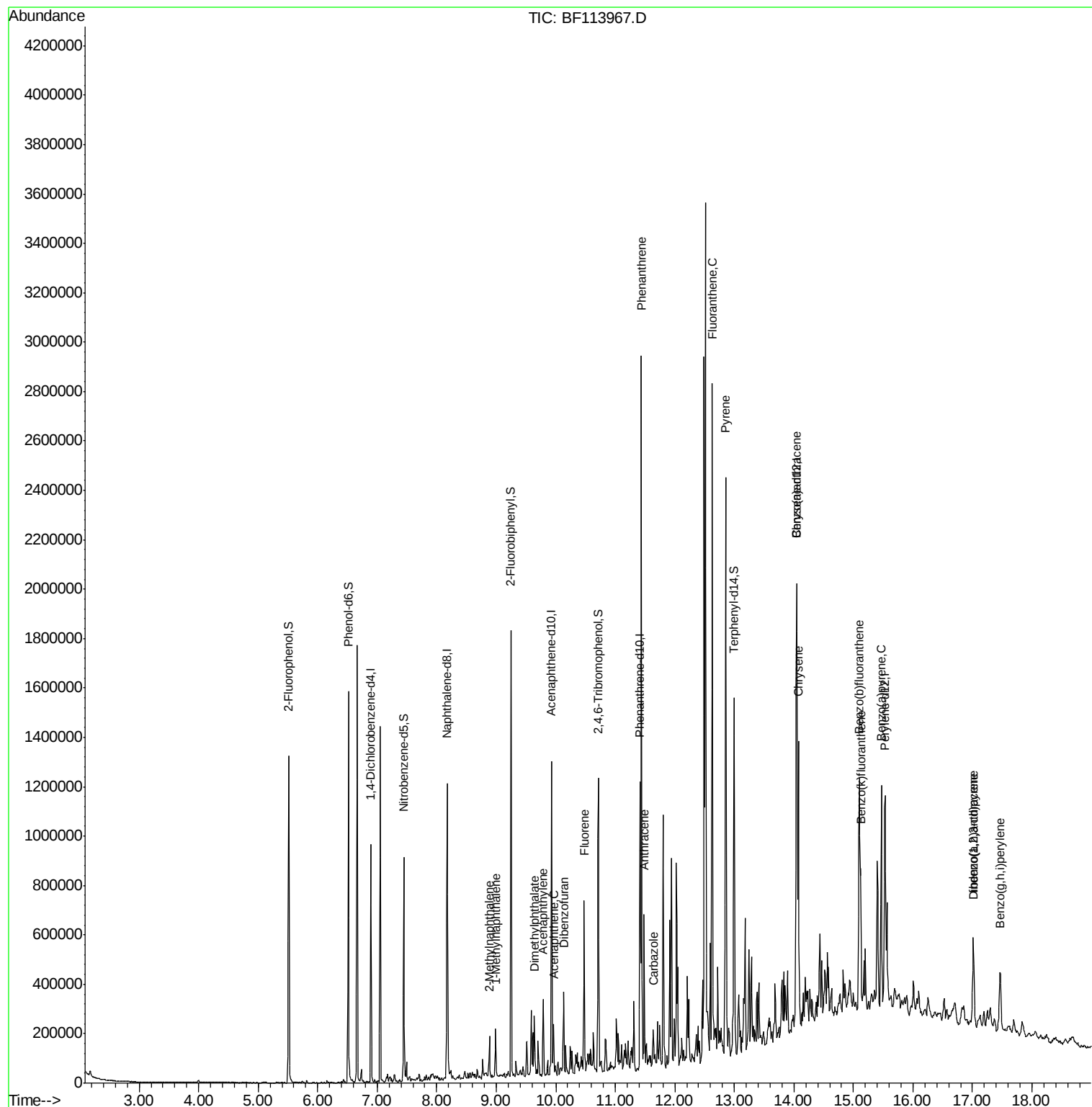
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042419\
Data File : BF113967.D
Acq On : 24 Apr 2019 17:48
Operator : JU/SJ
Sample : K2200-07 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

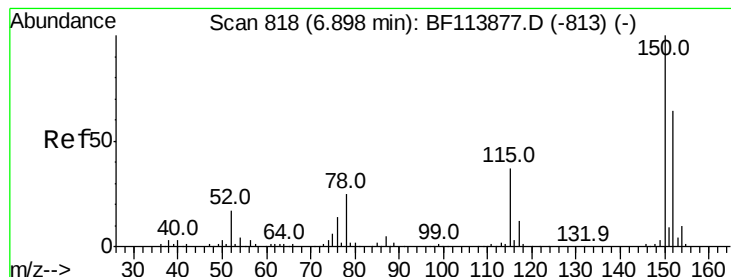
Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM

Quant Time: Apr 25 10:13:23 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 23 03:32:35 2019
Response via : Initial Calibration





#1

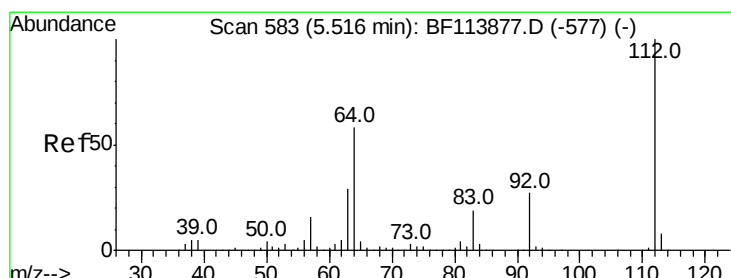
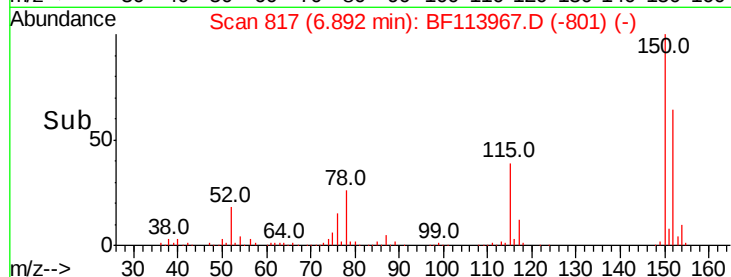
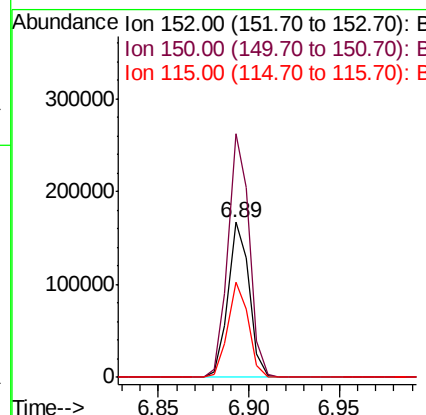
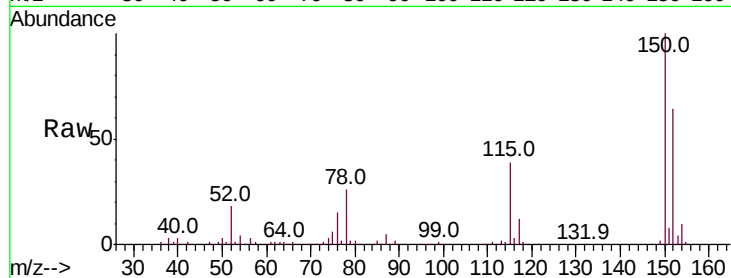
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	125.9	188.9
115	61.1	45.9	68.9

Manual Integrations
APPROVED

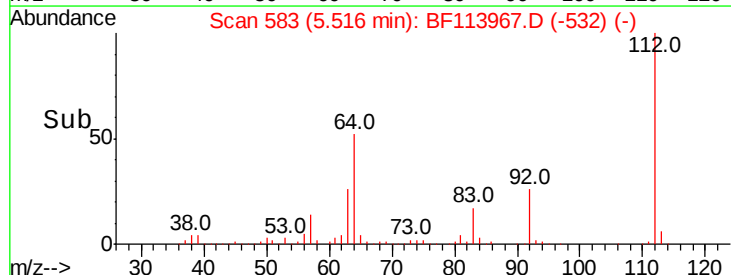
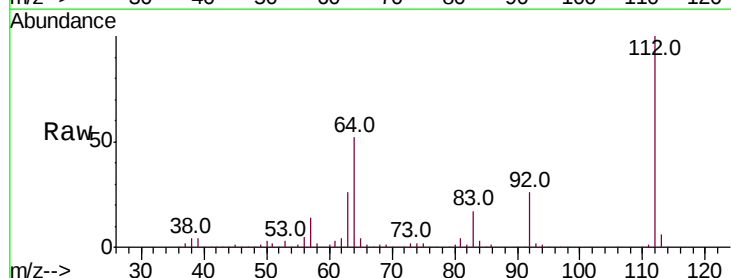
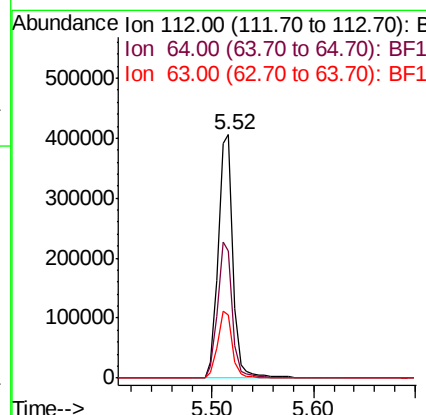
Sohil
4/25/2019 5:27:04 PM

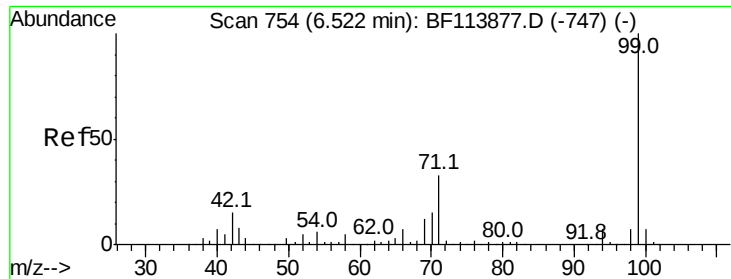


#5

2-Fluorophenol
Concen: 52.189 ng
RT: 5.52 min Scan# 583
Delta R.T. 0.00 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.1	46.6	69.8
63	25.9	23.1	34.7





#7

Phenol-d6

Concen: 54.808 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Instrument :

BNA_F

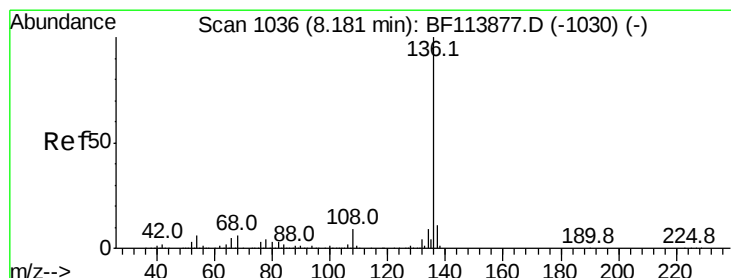
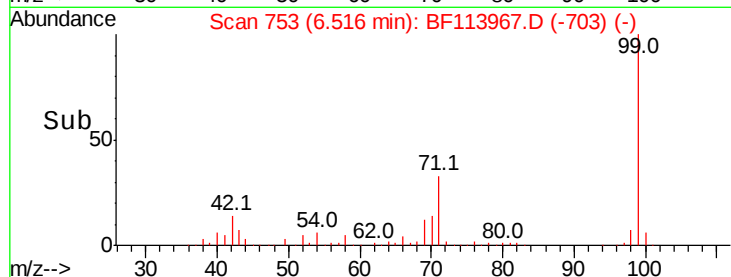
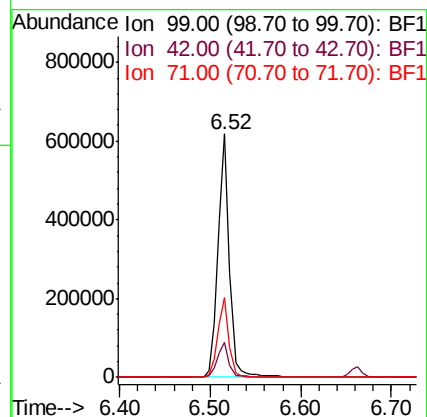
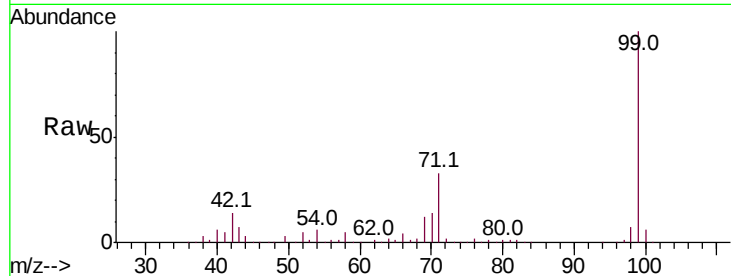
ClientSampleId :

EO-02-042319-A

Tot Ion:	99	Resp:	546542
Ion	Ratio	Lower	Upper
99	100		
42	14.3	12.5	18.7
71	32.7	26.9	40.3

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



#21

Naphthalene-d8

Concen: 20.000 ng

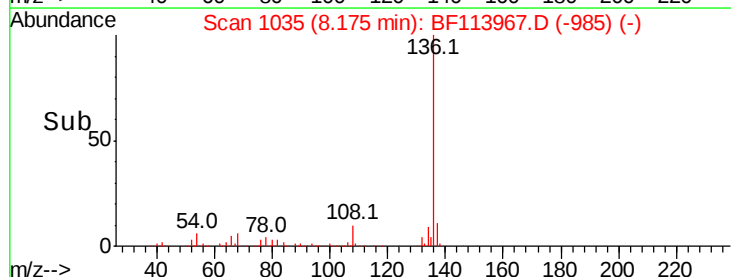
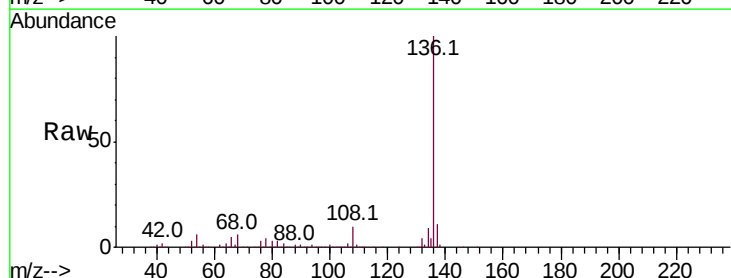
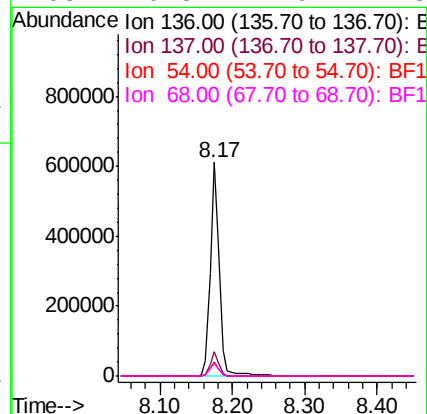
RT: 8.17 min Scan# 1035

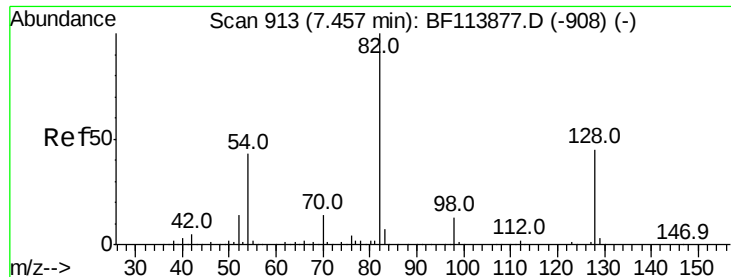
Delta R.T. -0.01 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Tgt Ion:	136	Resp:	528569
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	6.5	5.0	7.6
68	6.3	4.9	7.3





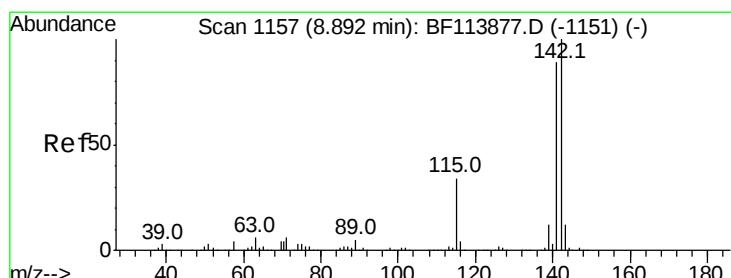
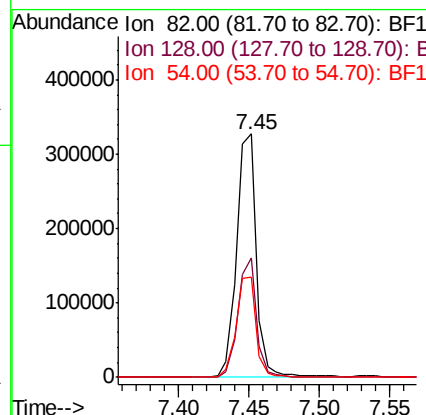
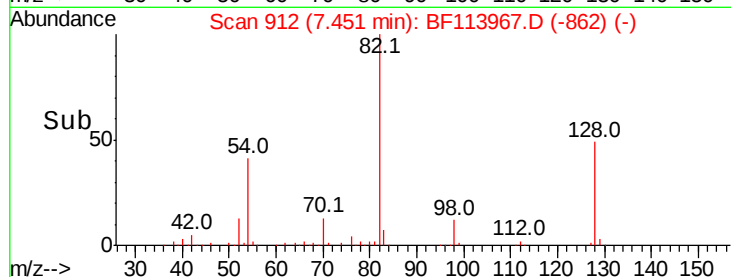
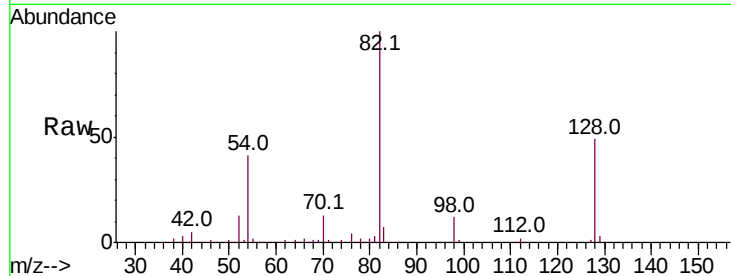
#23
Nitrobenzene-d5
Concen: 37.337 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.9	36.8	55.2
54	41.0	33.8	50.6

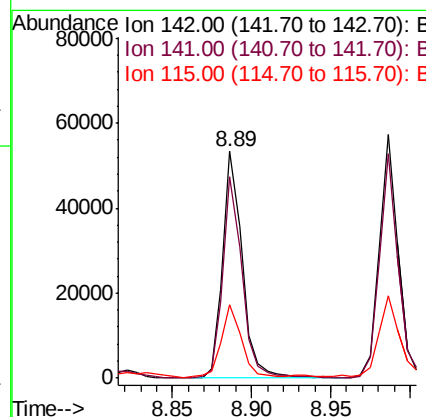
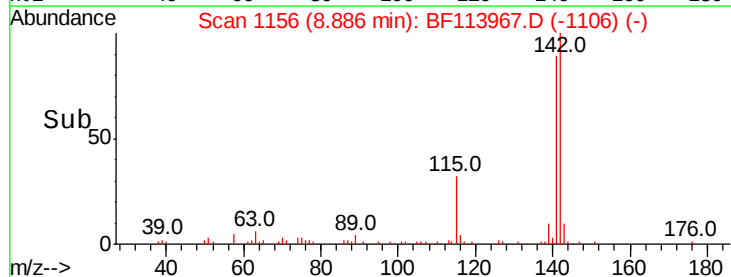
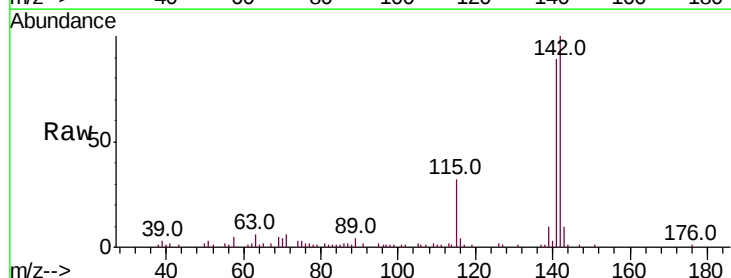
Manual Integrations
APPROVED

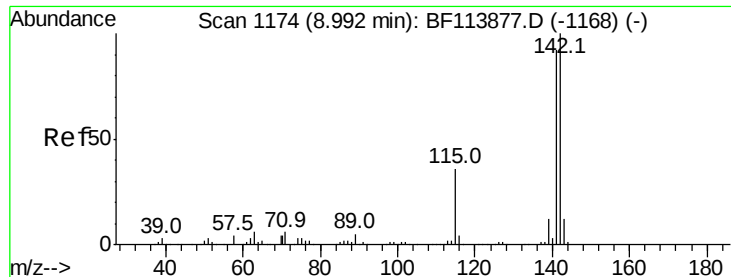
Sohil
4/25/2019 5:27:04 PM



#37
2-Methylnaphthalene
Concen: 2.706 ng
RT: 8.89 min Scan# 1156
Delta R.T. -0.01 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.4	105.6
115	32.2	26.3	39.5





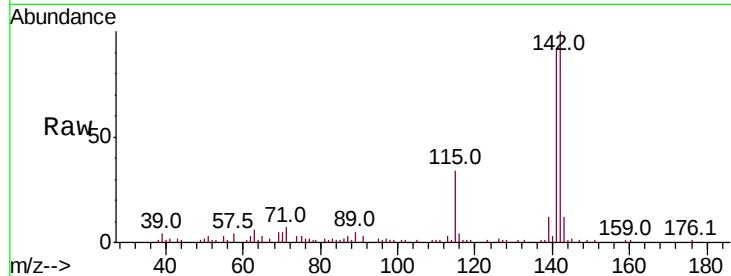
#38
1-Methylnaphthalene
Concen: 2.968 ng m
RT: 8.99 min Scan# 1173
Delta R.T. -0.01 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

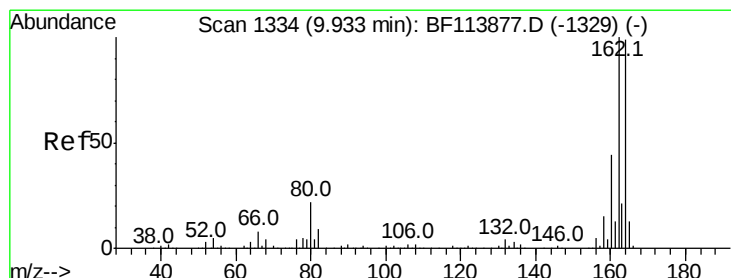
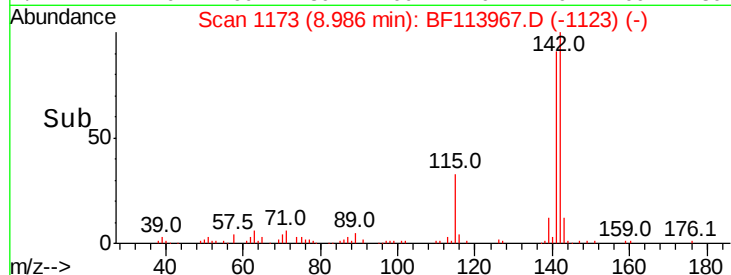
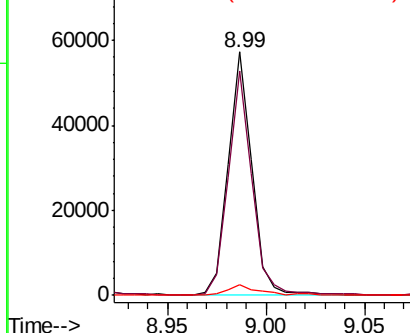
Tot Ion	Ratio	Resp	Lower	Upper
142	100	48501		
141	92.1	72.3	108.5	
116	4.4	3.0	4.4#	

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



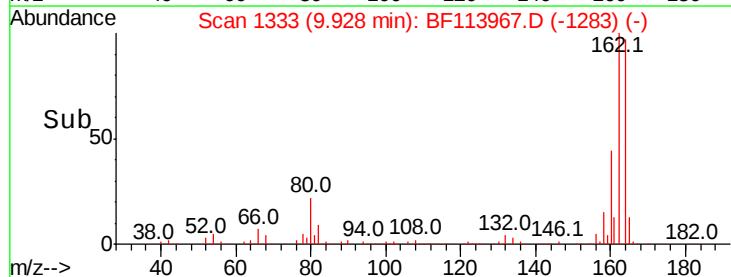
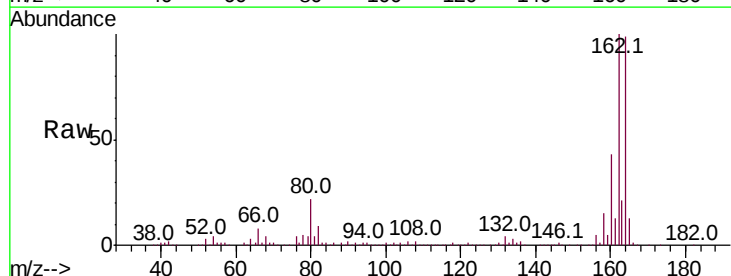
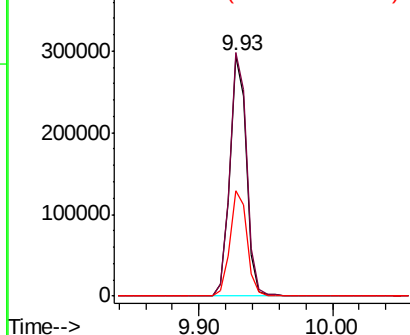
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

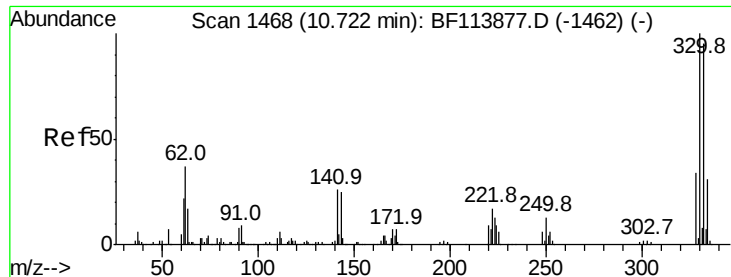


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	258947		
162	101.3	81.1	121.7	
160	44.1	35.8	53.6	

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: 45.191 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.01 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Instrument :

BNA_F

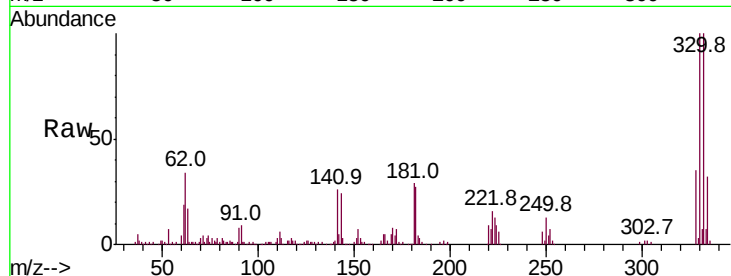
ClientSampleId :

EO-02-042319-A

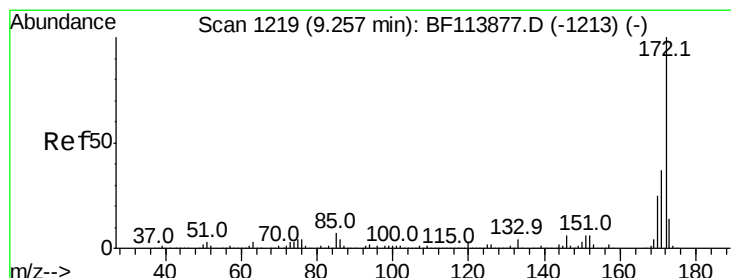
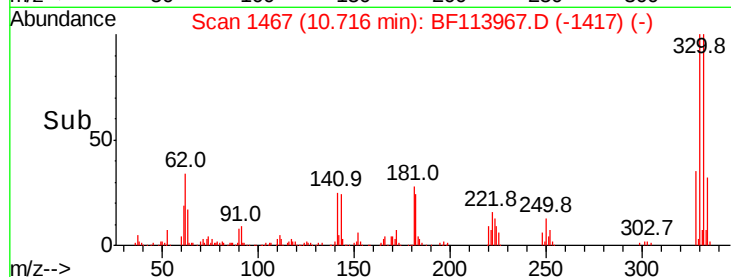
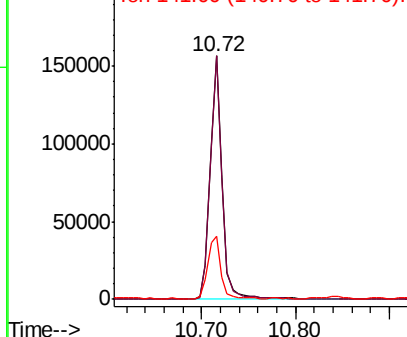
Tot Ion:	330	Resp:	142555
Ion Ratio	Lower	Upper	
330	100		
332	99.3	77.5	116.3
141	27.9	22.2	33.2

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 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: 36.509 ng

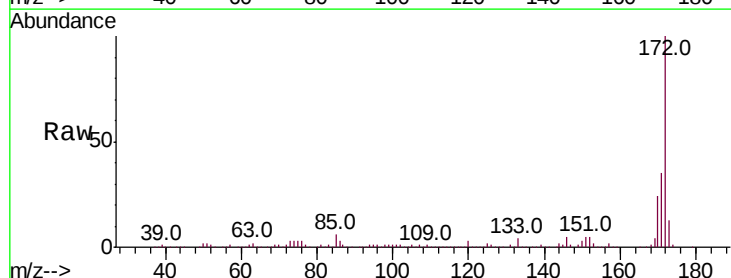
RT: 9.25 min Scan# 1218

Delta R.T. -0.00 min

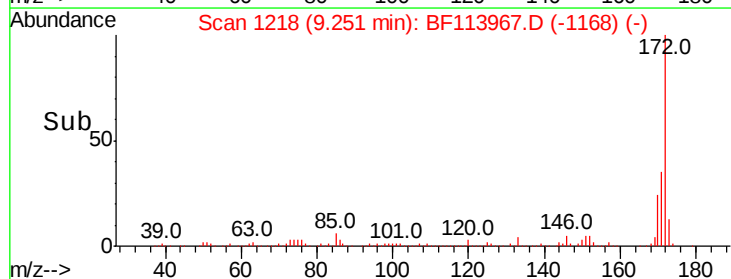
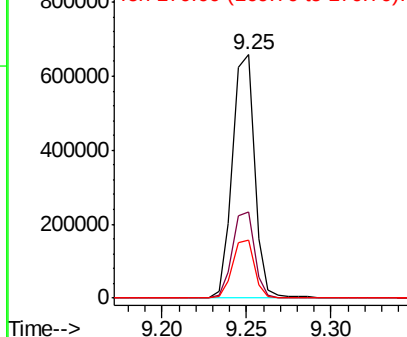
Lab File: BF113967.D

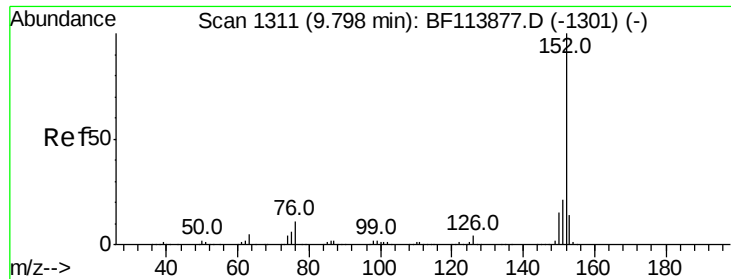
Acq: 24 Apr 2019 17:48

Tgt Ion:	172	Resp:	604452
Ion Ratio	Lower	Upper	
172	100		
171	35.3	29.4	44.0
170	23.6	19.9	29.9



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





#49

Acenaphthylene

Concen: 4.698 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Instrument :

BNA_F

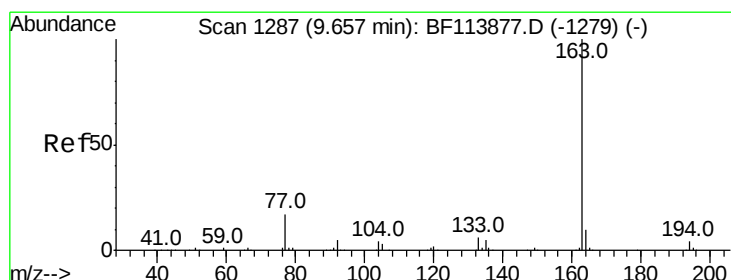
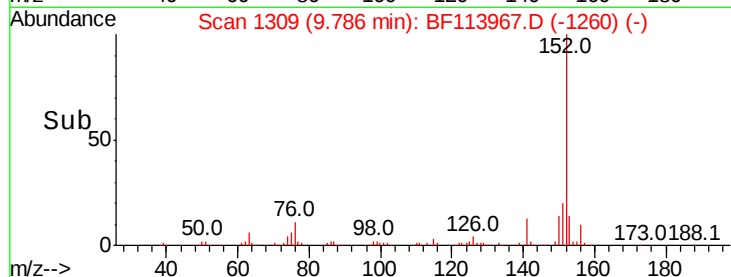
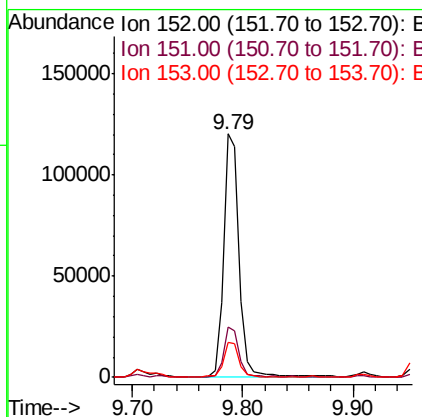
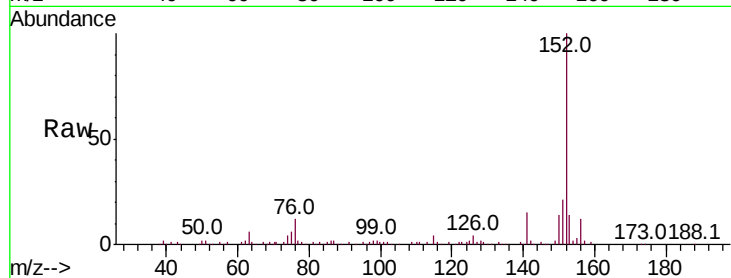
ClientSampleId :

EO-02-042319-A

Tot Ion:	152	Resp:	118319
Ion Ratio	Lower	Upper	
152	100		
151	20.6	17.0	25.4
153	14.2	11.0	16.6

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



#50

Dimethylphthalate

Concen: 4.622 ng

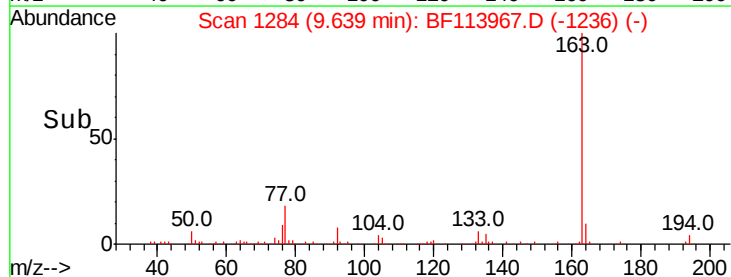
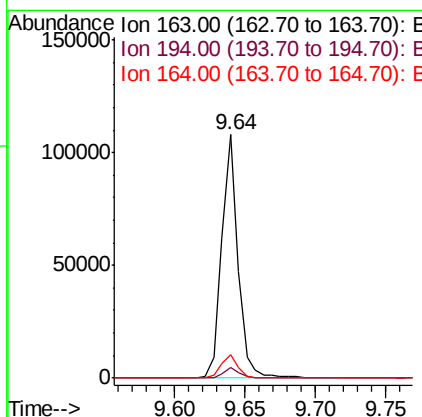
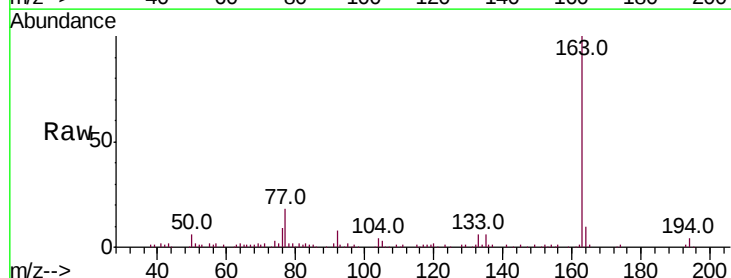
RT: 9.64 min Scan# 1284

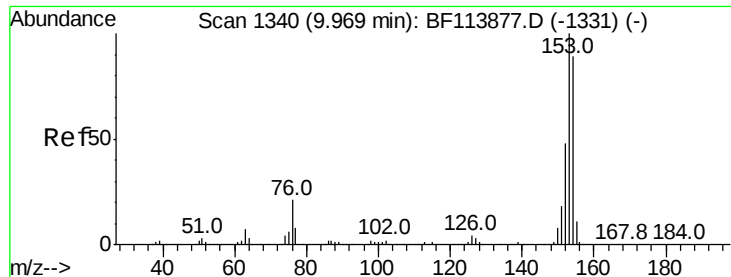
Delta R.T. -0.02 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Tgt Ion:	163	Resp:	86564
Ion Ratio	Lower	Upper	
163	100		
194	4.3	3.4	5.2
164	9.7	8.5	12.7





#52

Acenaphthene

Concen: 2.579 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Instrument :

BNA_F

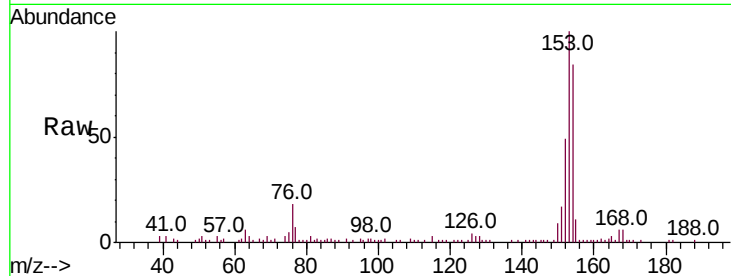
ClientSampleId :

EO-02-042319-A

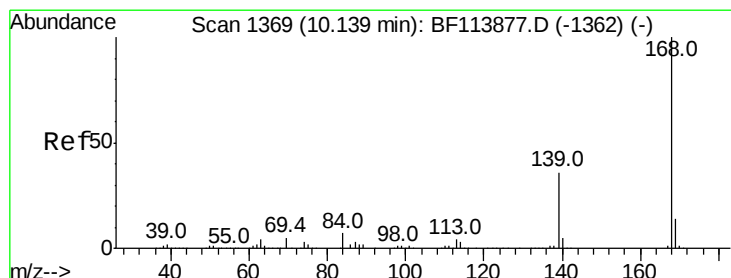
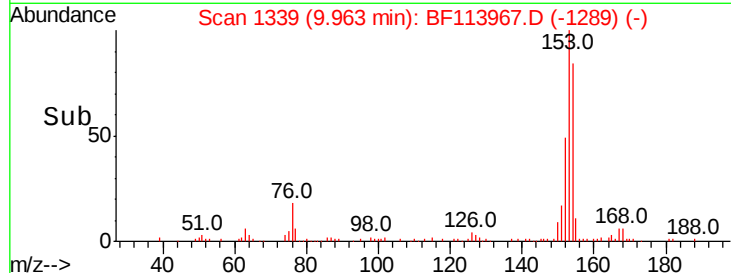
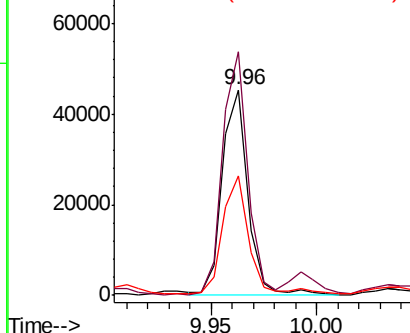
Tot Ion:	154	Resp:	38387
Ion Ratio	Lower	Upper	
154	100		
153	118.5	87.2	130.8
152	58.2	42.3	63.5

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 4.130 ng

RT: 10.13 min Scan# 1368

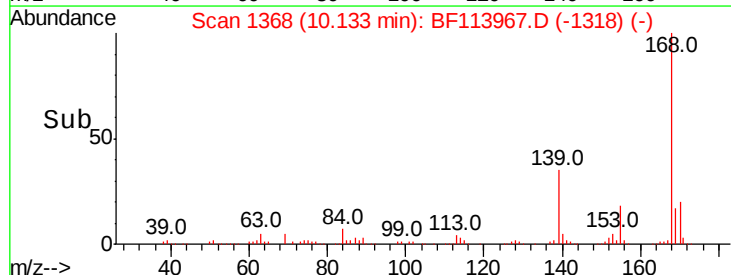
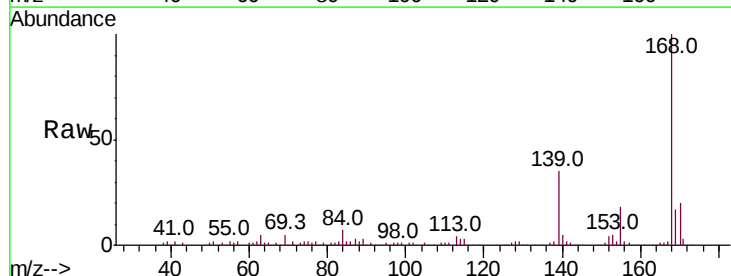
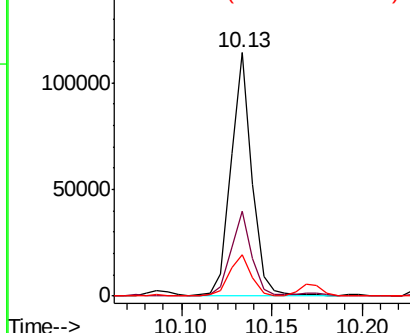
Delta R.T. -0.01 min

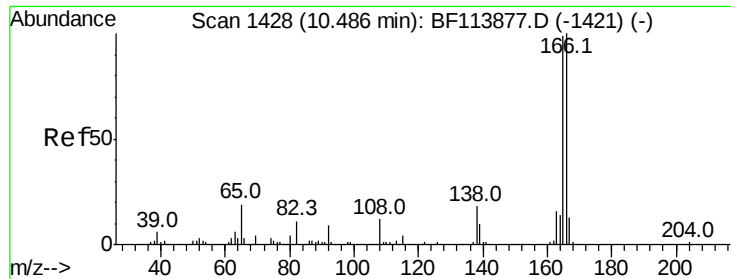
Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Tgt Ion:	168	Resp:	92083
Ion Ratio	Lower	Upper	
168	100		
139	35.1	27.8	41.6
169	16.9	11.0	16.6#

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





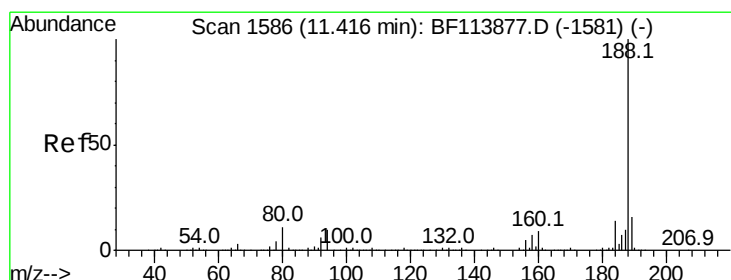
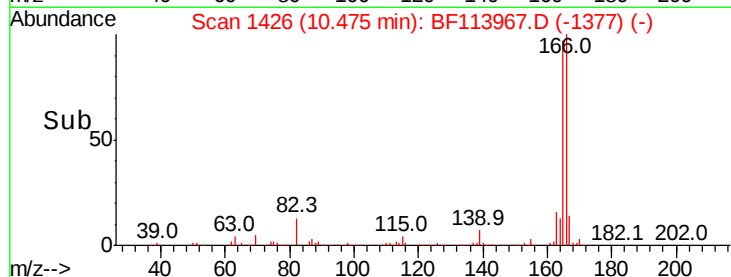
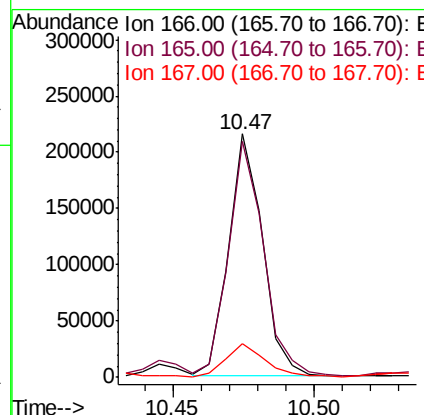
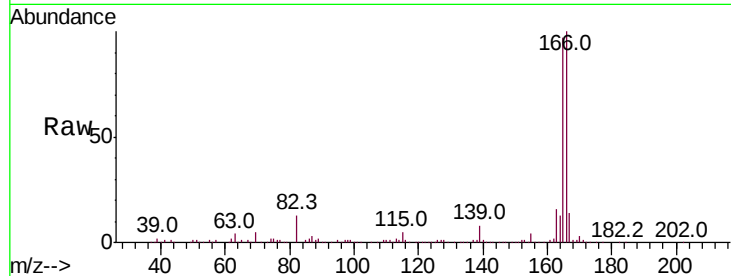
#58
 Fluorene
 Concen: 10.748 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.01 min
 Lab File: BF113967.D
 Acq: 24 Apr 2019 17:48

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-042319-A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	180408		
165	97.1	78.4	117.6	
167	13.9	10.9	16.3	

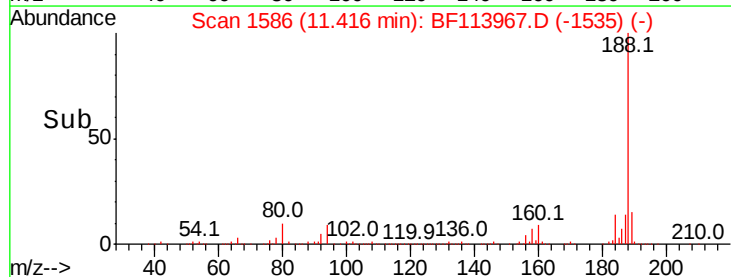
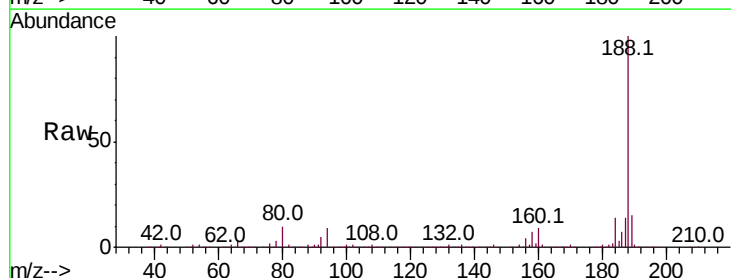
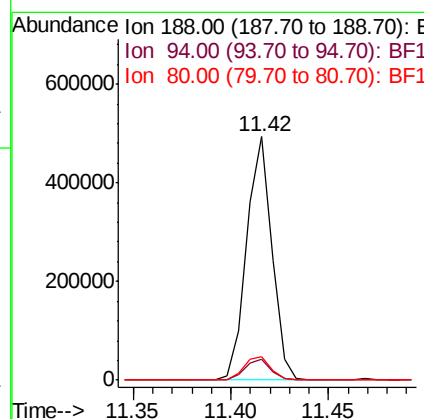
Manual Integrations
 APPROVED

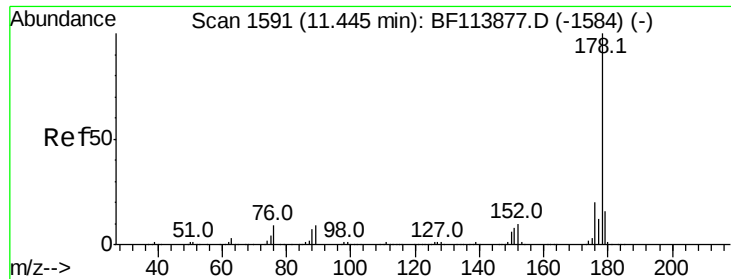
Sohil
 4/25/2019 5:27:04 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: BF113967.D
 Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	443897		
94	8.5	8.2	12.4	
80	9.8	9.0	13.6	





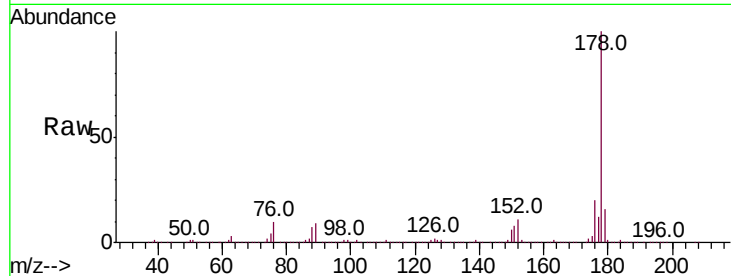
#71
Phenanthrene
Concen: 50.803 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.01 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

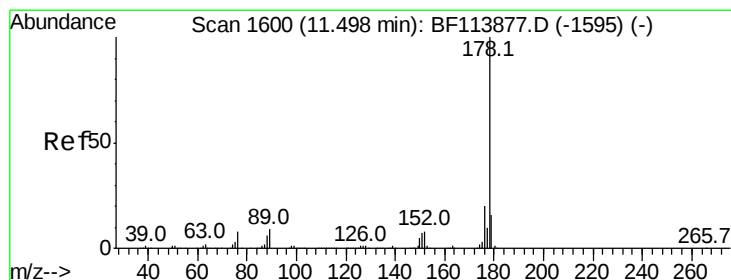
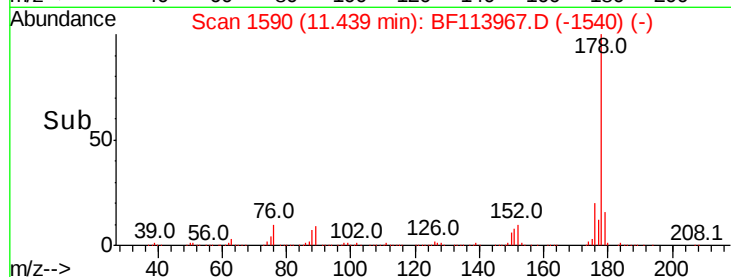
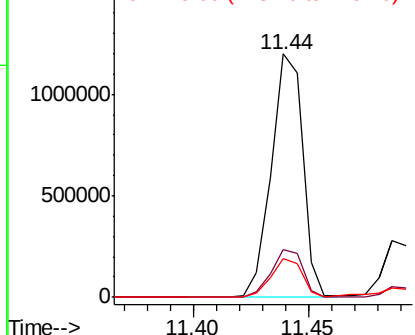
Tot Ion:178 Resp: 1133323
Ion Ratio Lower Upper
178 100
176 19.7 16.1 24.1
179 16.1 12.8 19.2

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



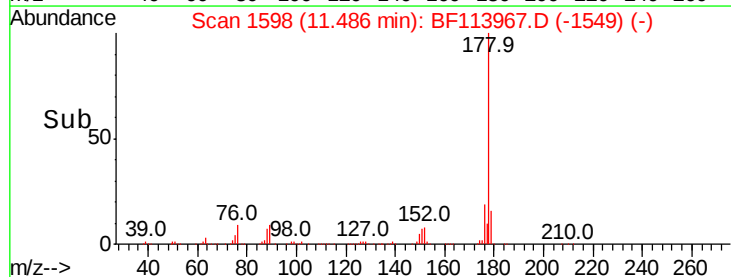
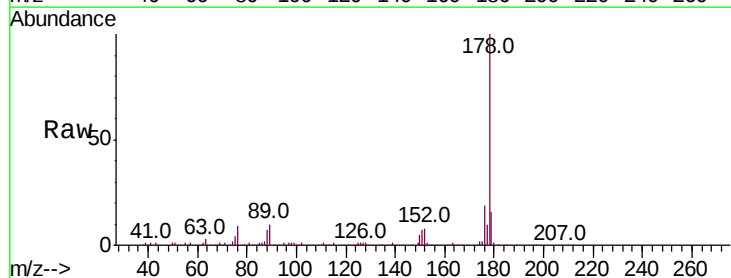
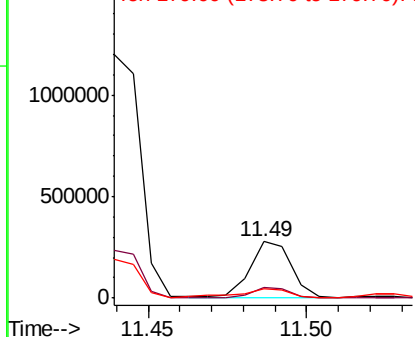
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

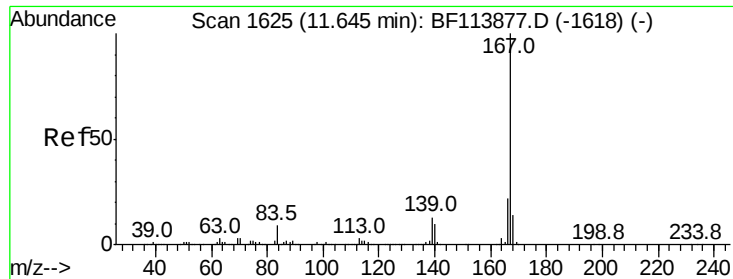


#72
Anthracene
Concen: 11.018 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Tgt Ion:178 Resp: 248210
Ion Ratio Lower Upper
178 100
176 19.0 15.7 23.5
179 16.1 13.0 19.4

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





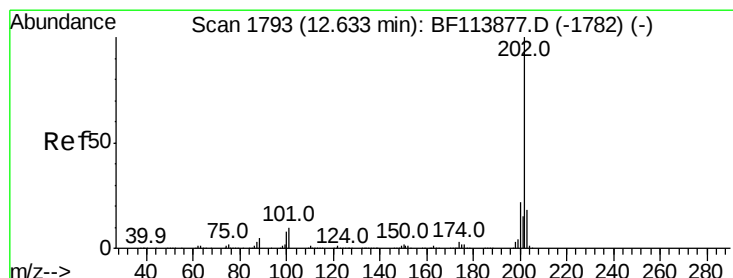
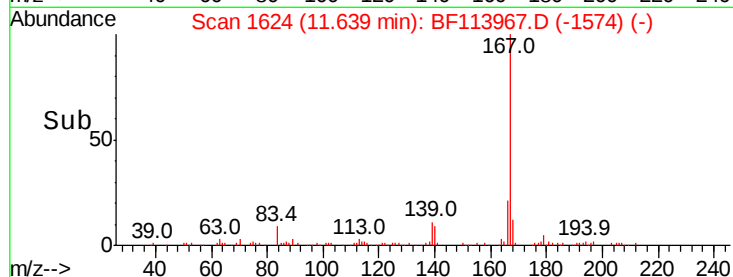
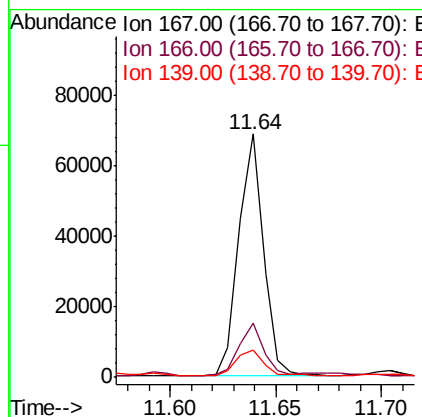
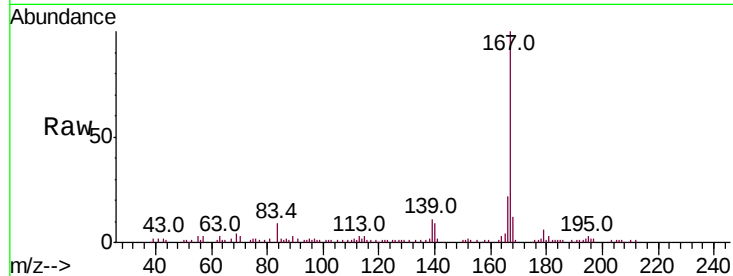
#73
 Carbazole
 Concen: 2.781 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BF113967.D
 Acq: 24 Apr 2019 17:48

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-042319-A

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.7	26.5
139	11.3	10.0	15.0

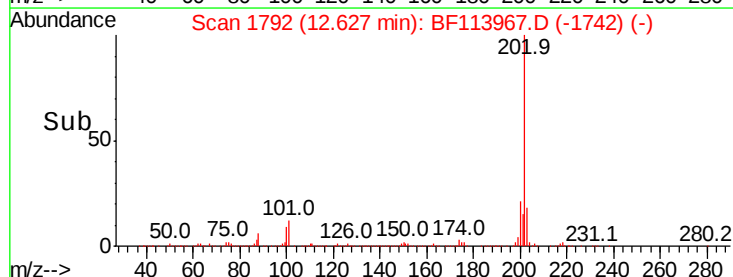
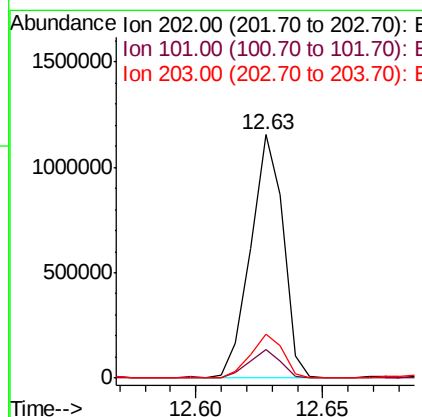
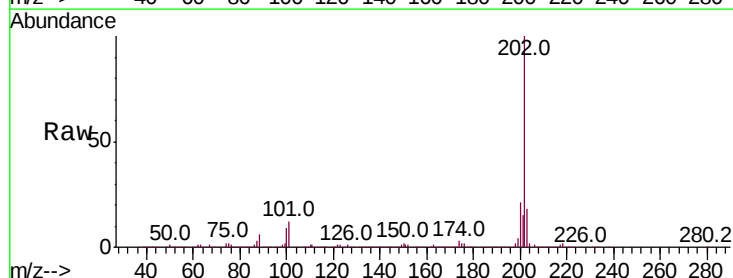
Manual Integrations
 APPROVED

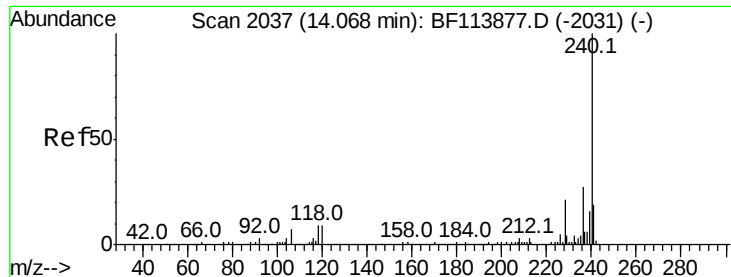
Sohil
 4/25/2019 5:27:04 PM



#75
 Fluoranthene
 Concen: 42.475 ng
 RT: 12.63 min Scan# 1792
 Delta R.T. -0.01 min
 Lab File: BF113967.D
 Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	32.9
203	18.0	0.0	38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.02 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Instrument :

BNA_F

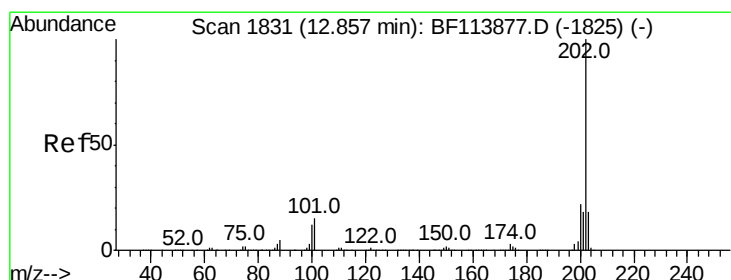
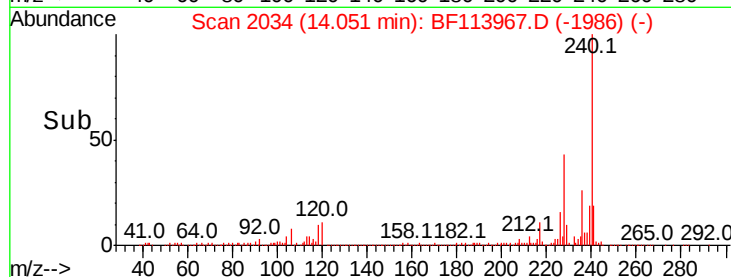
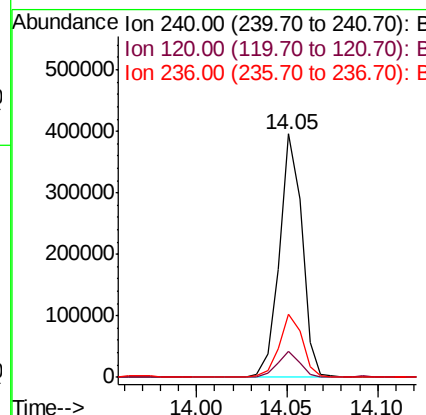
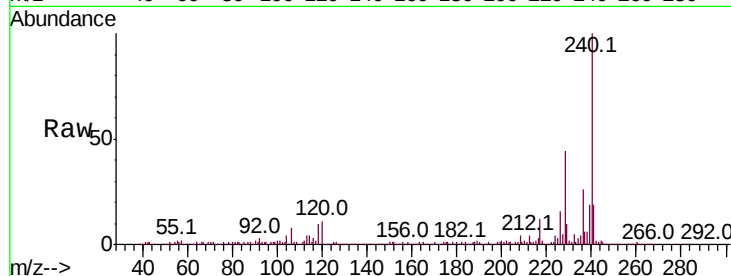
ClientSampleID :

EO-02-042319-A

Tot Ion:	240	Resp:	341425
Ion Ratio	Lower	Upper	
240	100		
120	10.6	9.3	13.9
236	26.1	21.2	31.8

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



#78

Pyrene

Concen: 40.143 ng

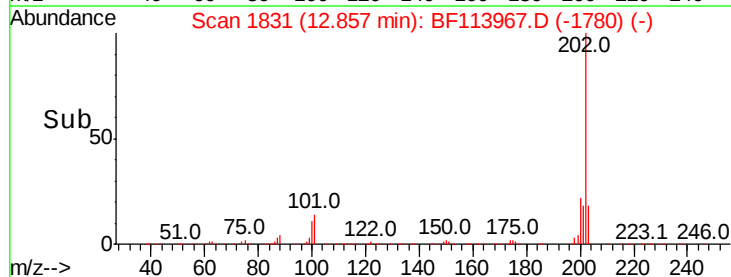
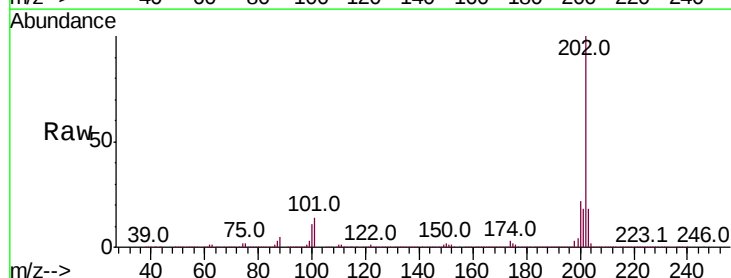
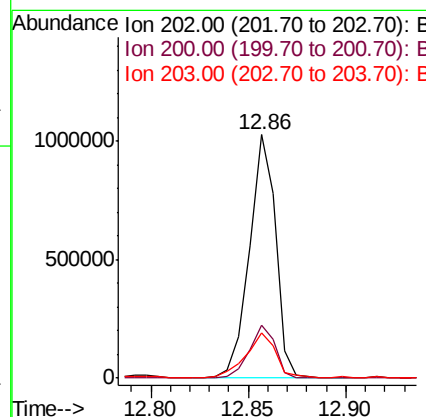
RT: 12.86 min Scan# 1831

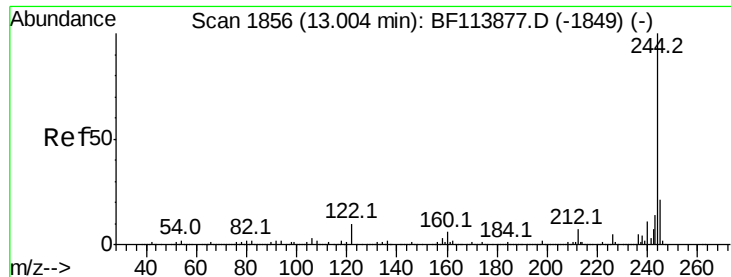
Delta R.T. 0.00 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Tgt Ion:	202	Resp:	958457
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.7	26.5
203	18.4	15.0	22.6





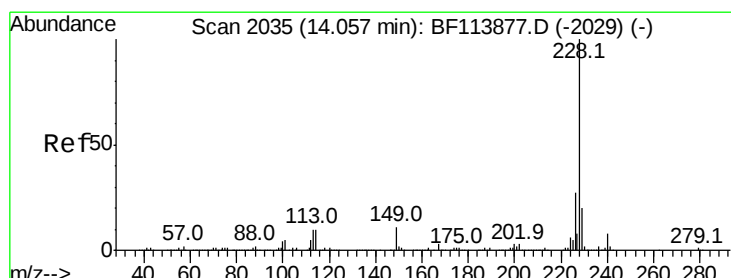
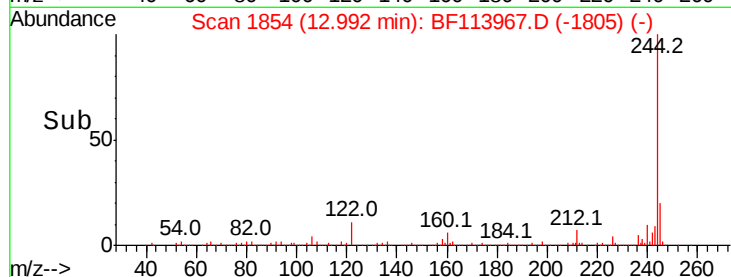
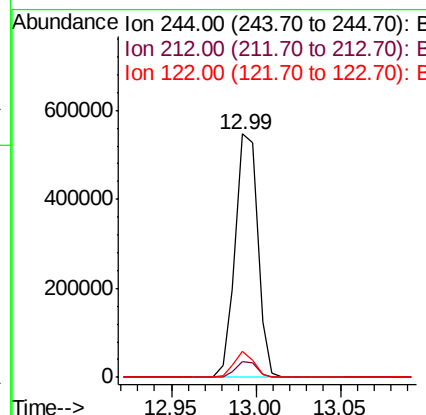
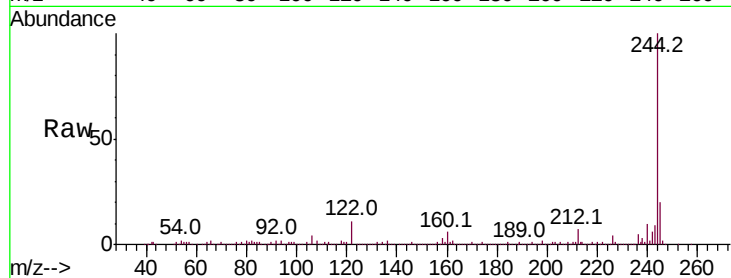
#79
 Terphenyl-d14
 Concen: 30.395 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: BF113967.D
 Acq: 24 Apr 2019 17:48

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-042319-A

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	10.7	7.6	11.4

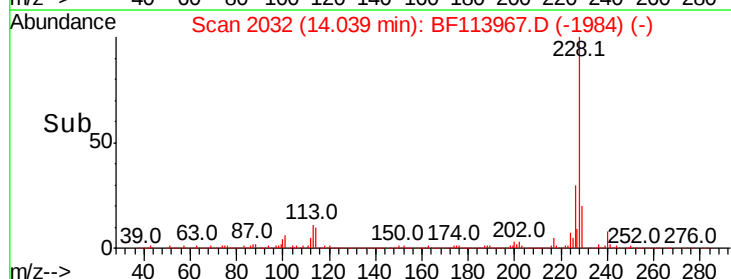
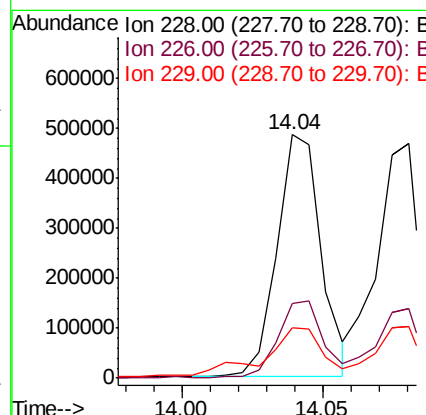
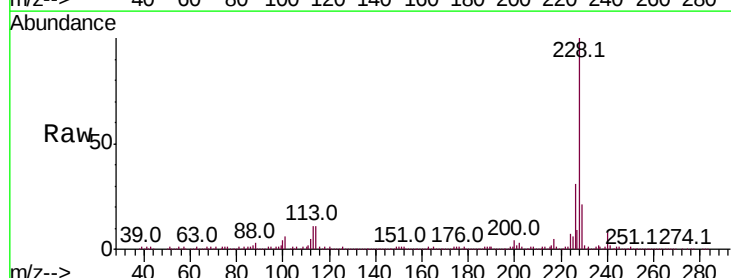
Manual Integrations
 APPROVED

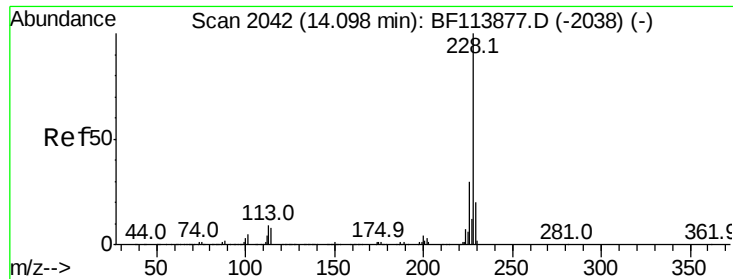
Sohil
 4/25/2019 5:27:04 PM



#81
 Benzo(a)anthracene
 Concen: 26.139 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. -0.02 min
 Lab File: BF113967.D
 Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	22.2	33.2
229	20.8	16.0	24.0





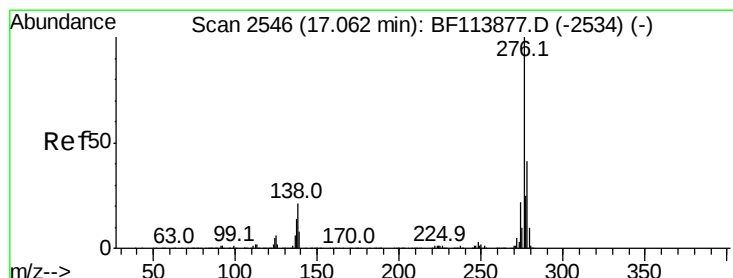
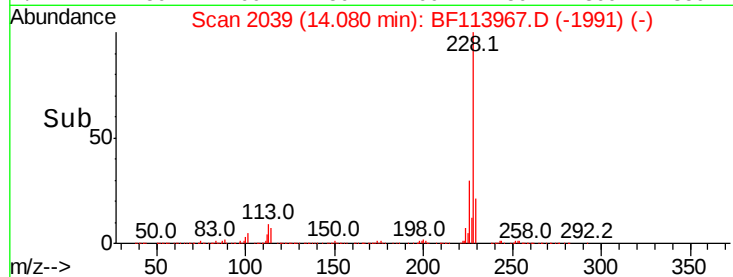
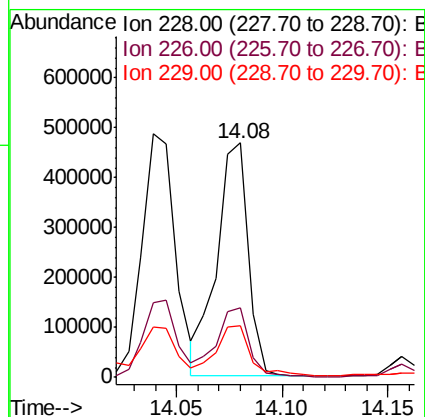
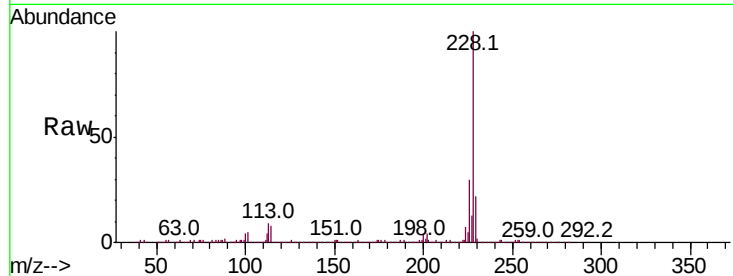
#83
Chrysene
Concen: 24.723 ng
RT: 14.08 min Scan# 2039
Delta R.T. -0.02 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

Tot Ion:	228	Resp:	484351
Ion Ratio	Lower	Upper	
228	100		
226	29.9	25.2	37.8
229	21.8	16.7	25.1

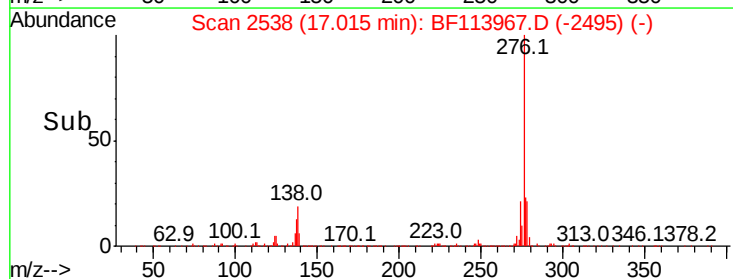
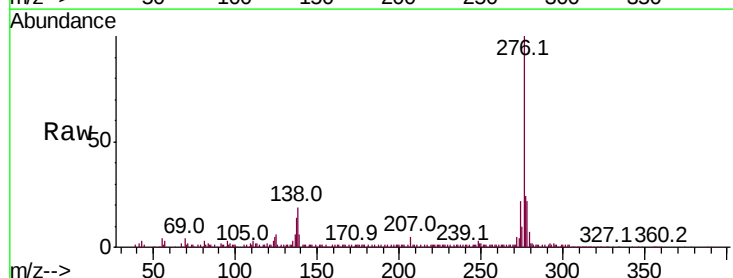
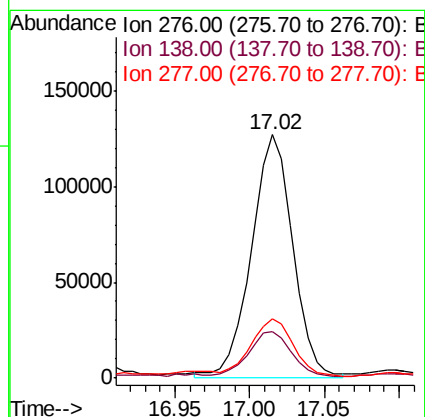
Manual Integrations
APPROVED

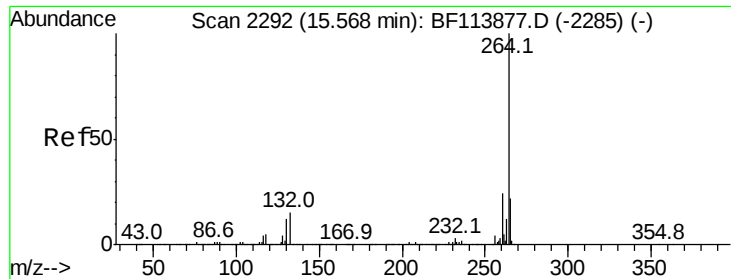
Sohil
4/25/2019 5:27:04 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 13.298 ng m
RT: 17.02 min Scan# 2538
Delta R.T. -0.05 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Tgt Ion:	276	Resp:	246767
Ion Ratio	Lower	Upper	
276	100		
138	1.0	19.6	29.4#
277	0.9	20.2	30.4#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2286

Delta R.T. -0.04 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Instrument :

BNA_F

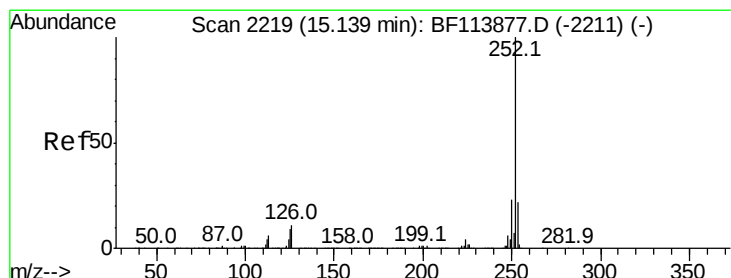
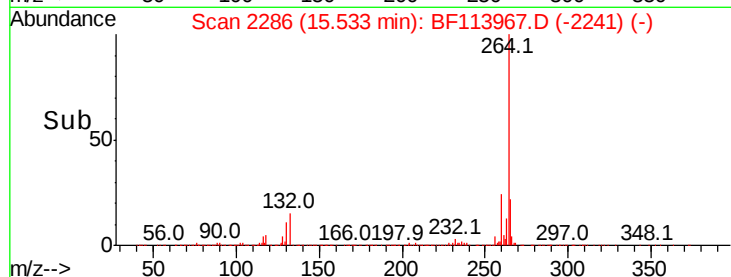
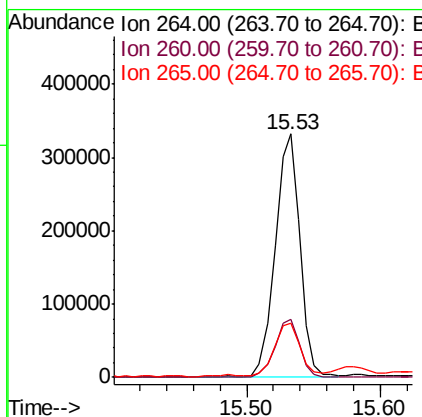
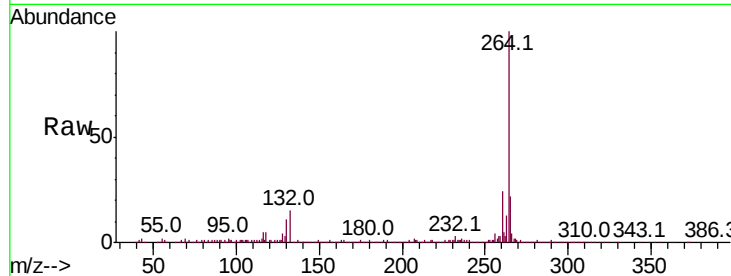
ClientSampleId :

EO-02-042319-A

Tot Ion:	264	Resp:	429222
Ion Ratio	Lower	Upper	
264	100		
260	24.0	18.9	28.3
265	22.3	17.3	25.9

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



#88

Benzo(b)fluoranthene

Concen: 21.778 ng m

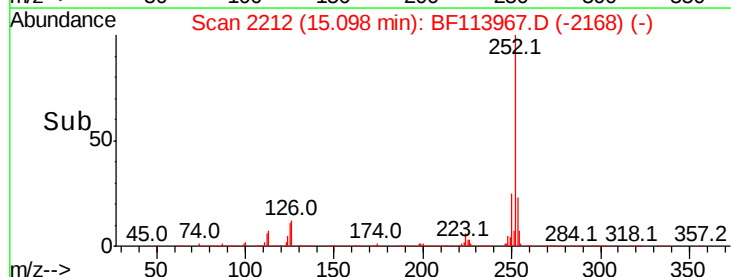
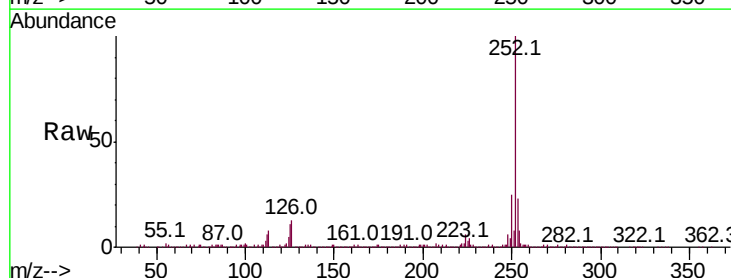
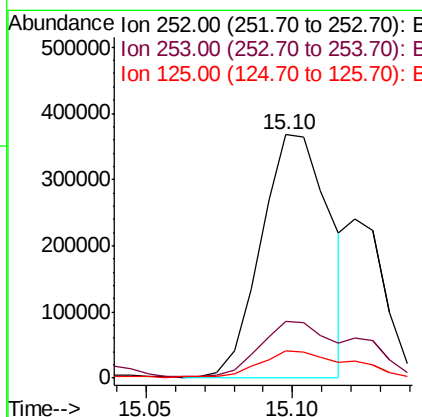
RT: 15.10 min Scan# 2212

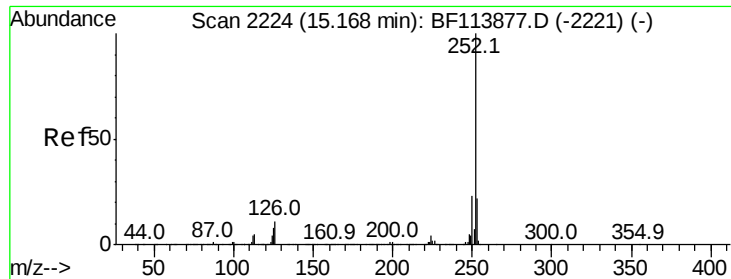
Delta R.T. -0.04 min

Lab File: BF113967.D

Acq: 24 Apr 2019 17:48

Tgt Ion:	252	Resp:	591417
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.8	26.6
125	11.3	7.0	10.6#





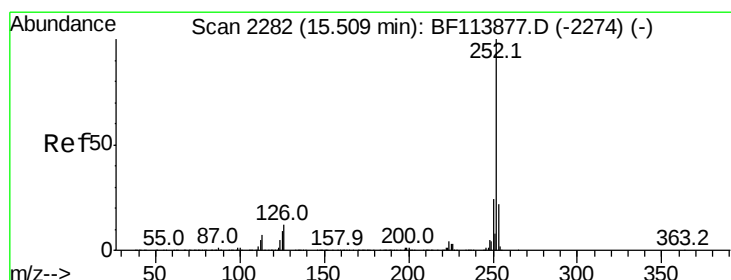
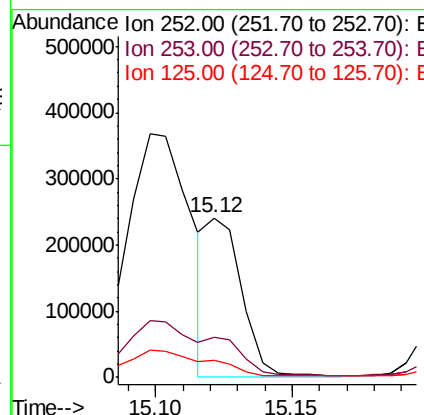
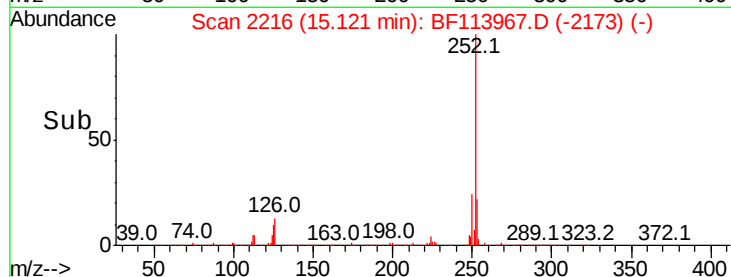
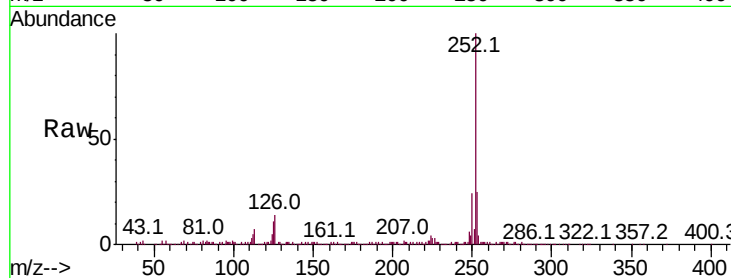
#89
Benzo(k)fluoranthene
Concen: 8.914 ng m
RT: 15.12 min Scan# 2216
Delta R.T. -0.05 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.2	27.2
125	10.7	7.4	11.2

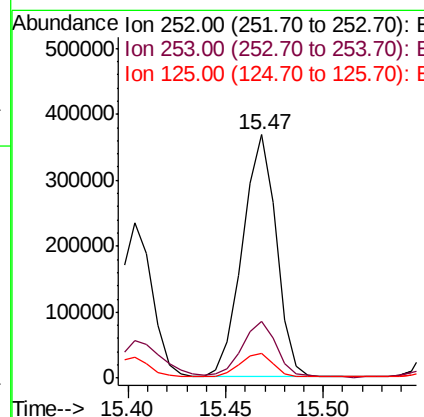
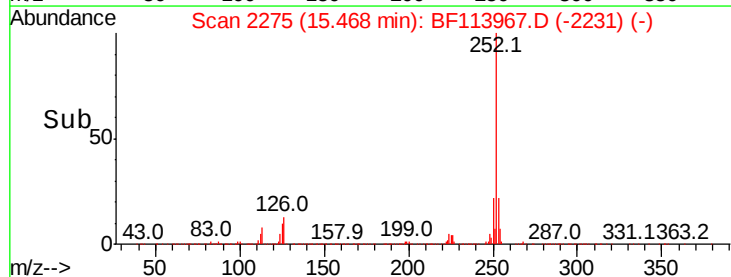
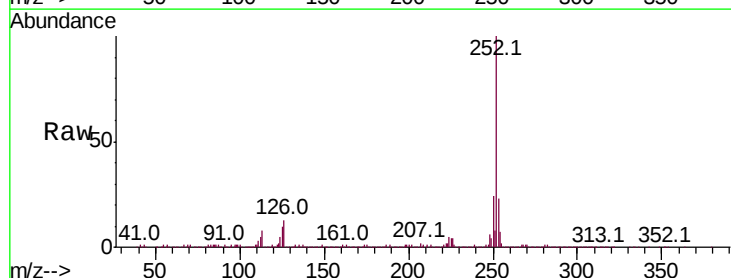
Manual Integrations
APPROVED

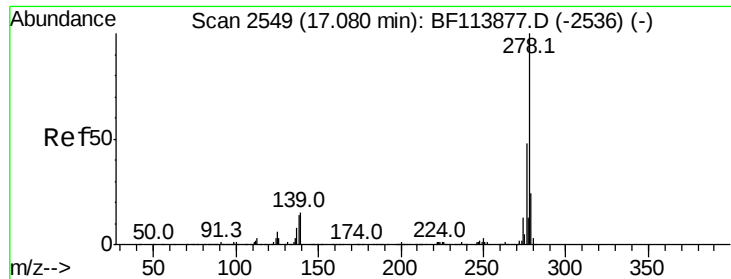
Sohil
4/25/2019 5:27:04 PM



#90
Benzo(a)pyrene
Concen: 18.773 ng
RT: 15.47 min Scan# 2275
Delta R.T. -0.04 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	10.3	8.5	12.7





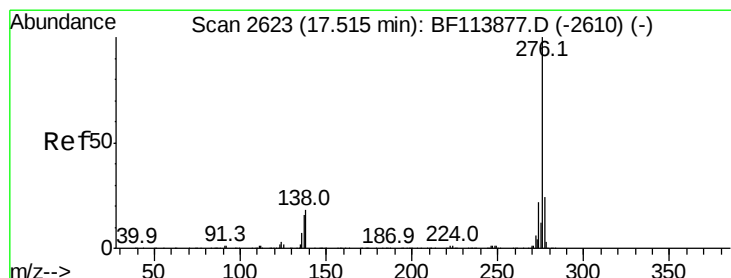
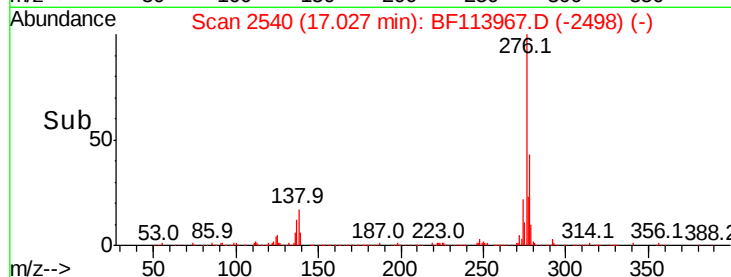
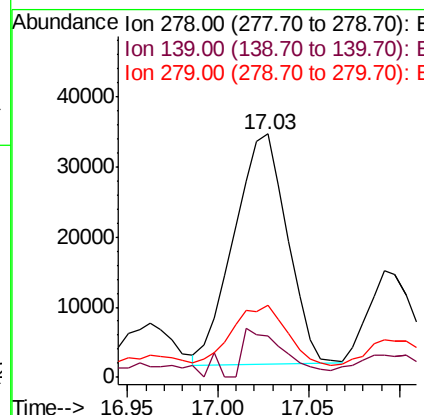
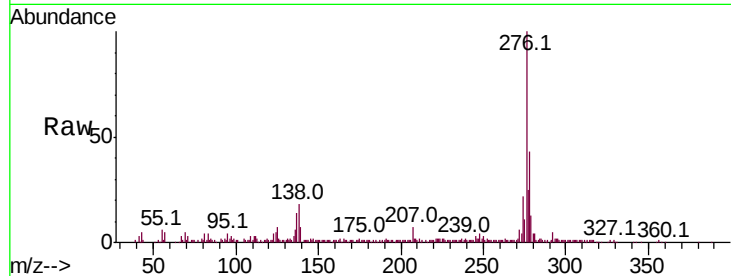
#91
Dibenzo(a,h)anthracene
Concen: 3.049 ng
RT: 17.03 min Scan# 2540
Delta R.T. -0.05 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Instrument :
BNA_F
ClientSampleId :
EO-02-042319-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.9	11.6	17.4
279	29.4	19.0	28.6

Manual Integrations
APPROVED

Sohil
4/25/2019 5:27:04 PM



#92
Benzo(g,h,i)perylene
Concen: 9.175 ng
RT: 17.46 min Scan# 2614
Delta R.T. -0.05 min
Lab File: BF113967.D
Acq: 24 Apr 2019 17:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.0	28.4
138	20.4	16.6	25.0

