

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051019\
 Data File : BF114144.D
 Acq On : 11 May 2019 1:52
 Operator : JU/SJ
 Sample : K2642-03 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-050919

Manual Integrations
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 5/13/2019 8:34:35 PM

Quant Time: May 11 05:01:24 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	271441	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	956222	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	394899	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	781300	20.00	ng	0.00
76) Chrysene-d12	14.02	240	527885	20.00	ng	0.00
87) Perylene-d12	15.49	264	478539	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	165324	9.80	ng	0.00
7) Phenol-d6	6.49	99	210975	10.58	ng	0.00
23) Nitrobenzene-d5	7.41	82	98507	5.78	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	36000	8.82	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	195567	7.49	ng	0.00
79) Terphenyl-d14	12.95	244	232643	9.08	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	999979	22.388	ng	98
37) 2-Methylnaphthalene	8.85	142	398263	13.820	ng	97
38) 1-Methylnaphthalene	8.95	142	314808	11.600	ng	100
46) 1,1'-Biphenyl	9.31	154	101874	3.193	ng	98
49) Acenaphthylene	9.75	152	165254	4.232	ng	97
52) Acenaphthene	9.92	154	561315	23.425	ng	99
55) Dibenzofuran	10.09	168	540506	15.383	ng	97
58) Fluorene	10.43	166	793694	29.244	ng	99
71) Phenanthrene	11.40	178	3930731	103.410	ng	96
72) Anthracene	11.45	178	1245792	32.630	ng	99
73) Carbazole	11.60	167	590338	16.215	ng	96
75) Fluoranthene	12.60	202	4228482	103.302	ng	95
78) Pyrene	12.83	202	3914442	92.179	ng	97
81) Benzo(a)anthracene	14.00	228	1602254	46.927	ng	98
83) Chrysene	14.04	228	1437167	42.939	ng	98
86) Indeno(1,2,3-cd)pyrene	16.96	276	550379	18.606	ng	98
88) Benzo(b)fluoranthene	15.07	252	1339147m	43.680	ng	
89) Benzo(k)fluoranthene	15.09	252	540191m	19.181	ng	
90) Benzo(a)pyrene	15.43	252	1043525	38.676	ng	99
91) Dibenzo(a,h)anthracene	16.96	278	135739m	6.054	ng	
92) Benzo(g,h,i)perylene	17.40	276	561498	24.990	ng	97

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

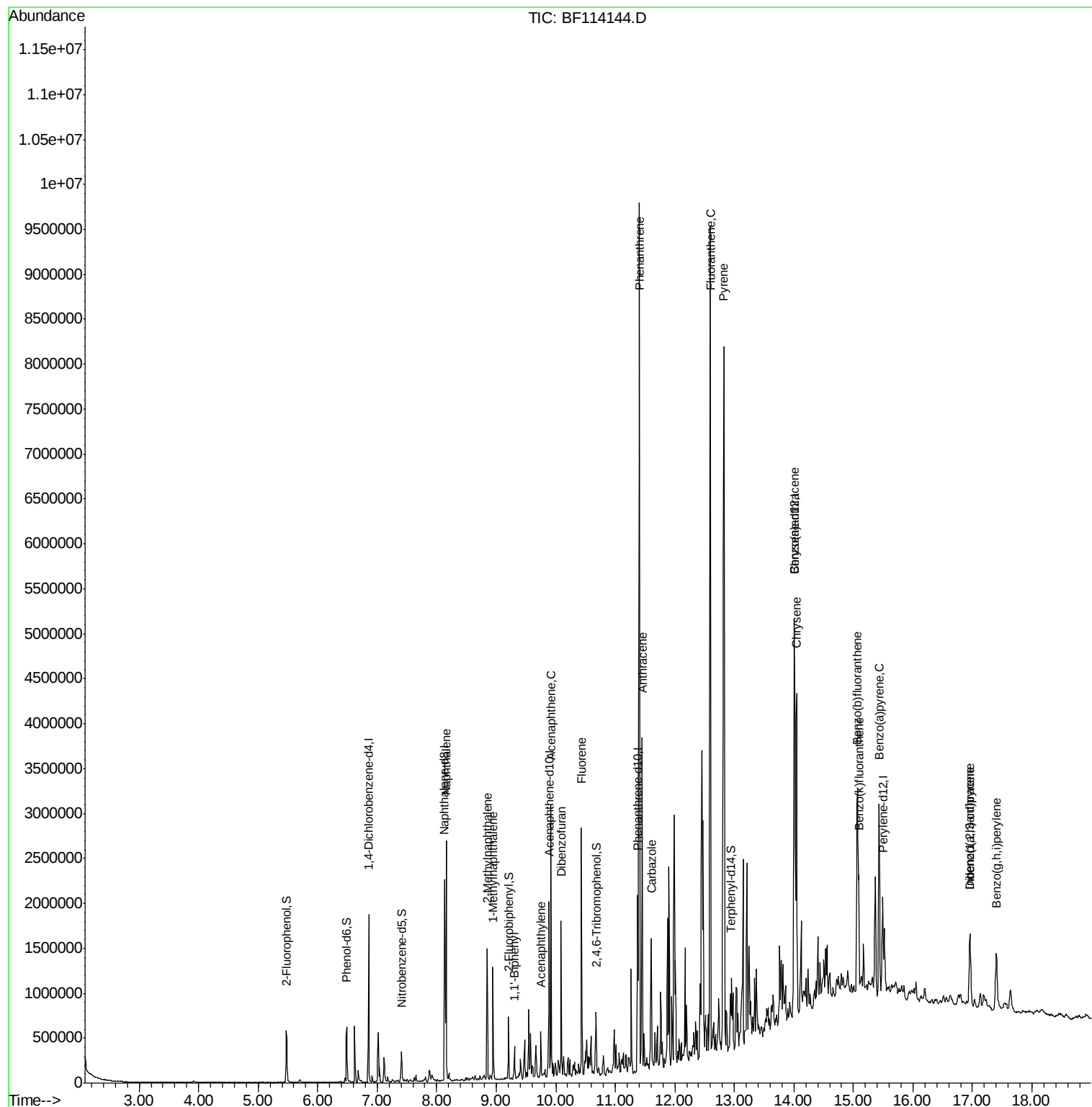
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051019\
Data File : BF114144.D
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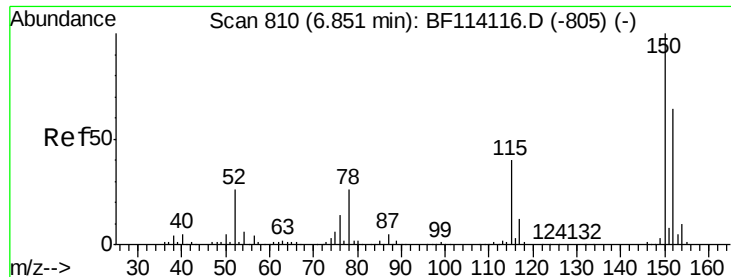
Instrument :
BNA_F
ClientSampleId :
OK-03-050919

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Quant Time: May 11 05:01:24 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 10 15:56:46 2019
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#1

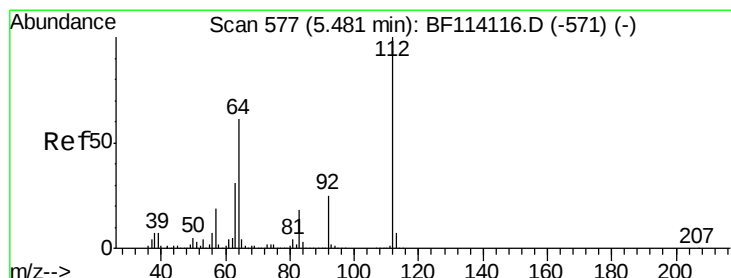
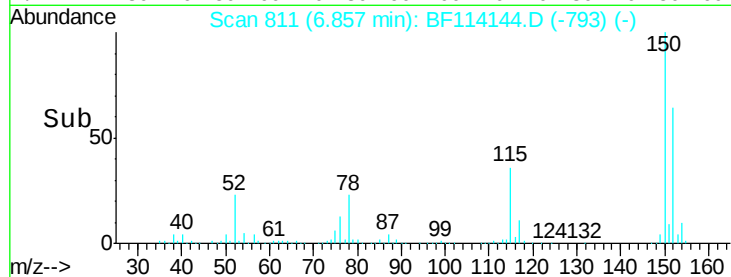
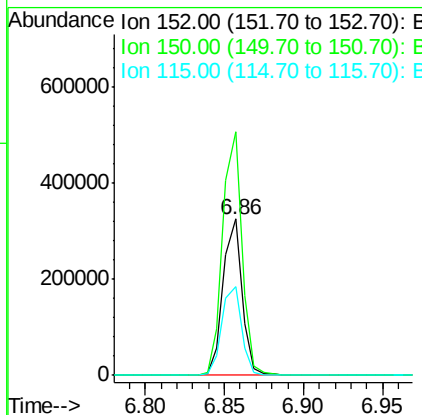
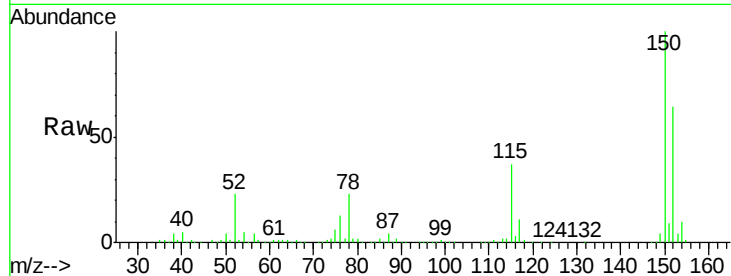
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. 0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Instrument :
BNA_F
ClientSampleId :
OK-03-050919

Tgt	Ion	Ratio	Resp	Lower	Upper
152	100		271441		
150	155.7	124.3	186.5		
115	57.0	49.1	73.7		

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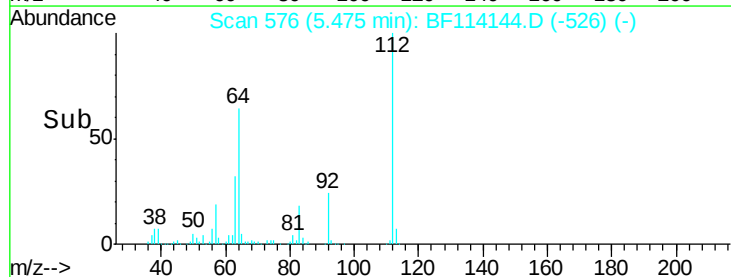
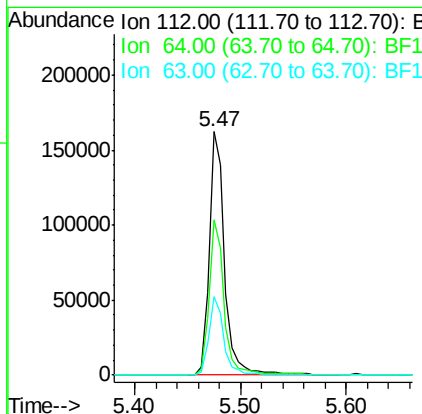
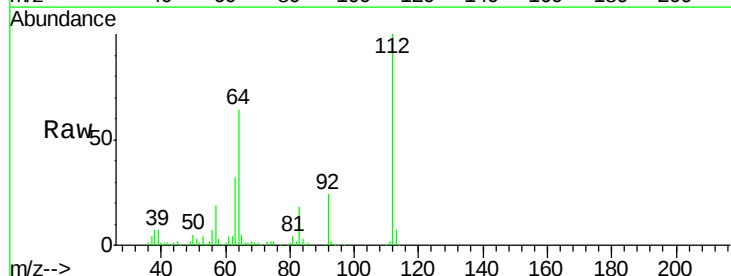
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#5

2-Fluorophenol
Concen: 9.801 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		165324		
64	64.0	49.0	73.6		
63	32.3	24.6	37.0		





#7

Phenol-d6

Concen: 10.575 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF114144.D

Acq: 11 May 2019 1:52

Instrument :

BNA_F

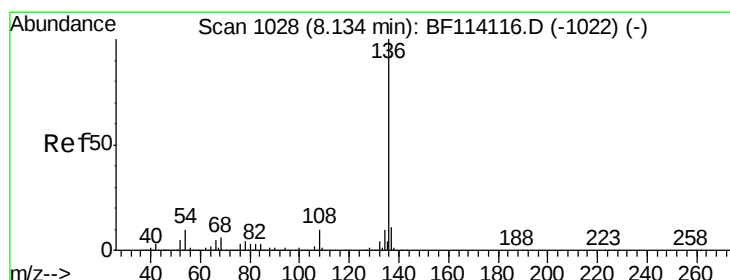
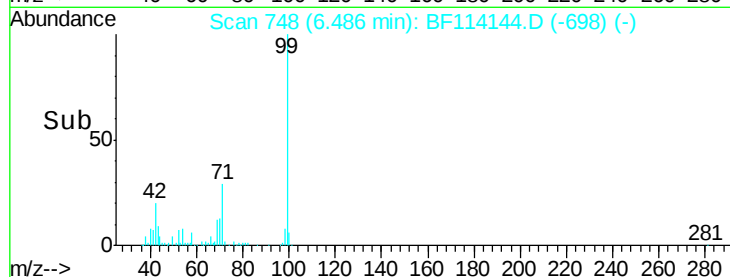
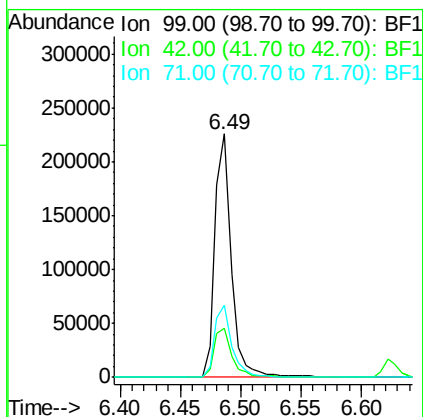
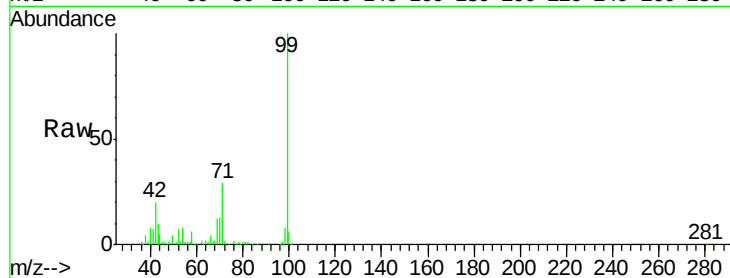
ClientSampleId :

OK-03-050919

Tgt Ion:	99	Resp:	210975
Ion Ratio	Lower	Upper	
99	100		
42	19.9	17.9	26.9
71	29.5	26.2	39.2

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#21

Naphthalene-d8

Concen: 20.000 ng

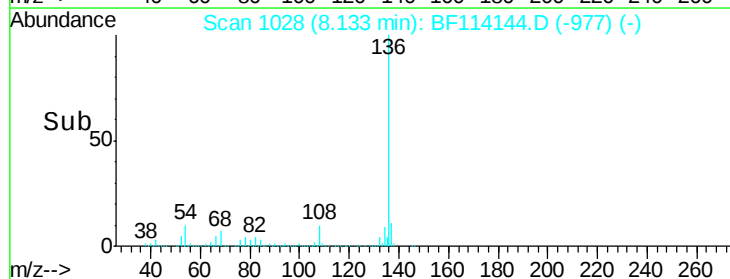
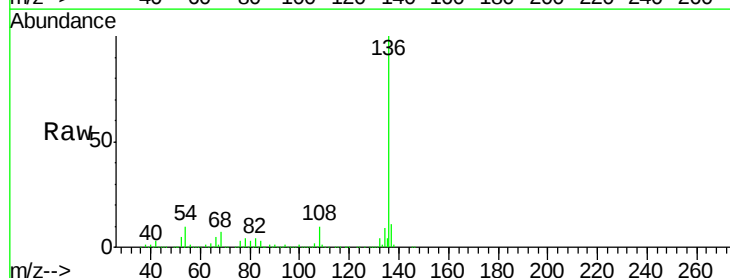
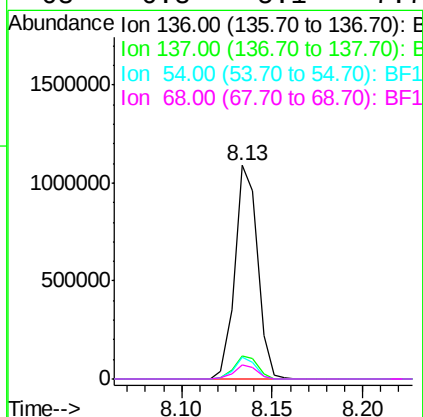
RT: 8.13 min Scan# 1028

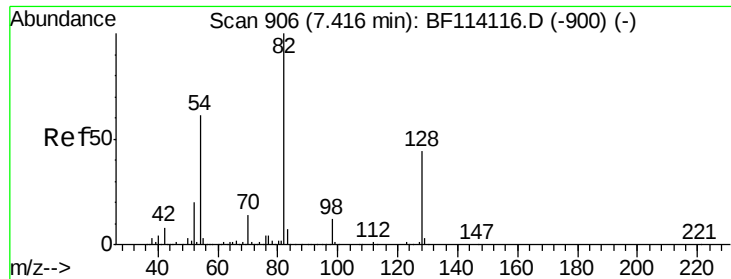
Delta R.T. -0.00 min

Lab File: BF114144.D

Acq: 11 May 2019 1:52

Tgt Ion:	136	Resp:	956222
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.8	13.2
54	10.3	7.8	11.8
68	6.8	5.1	7.7





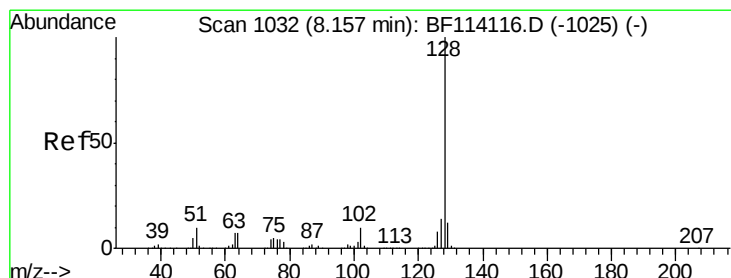
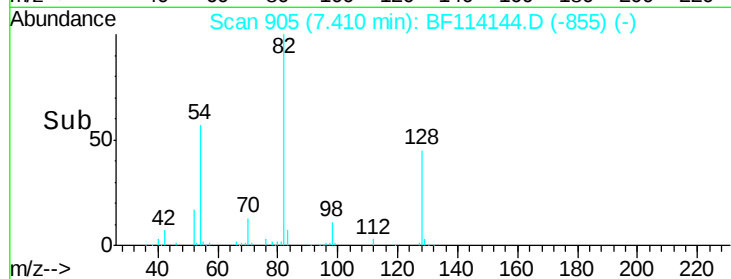
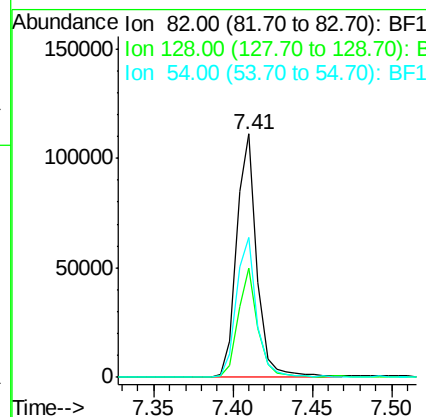
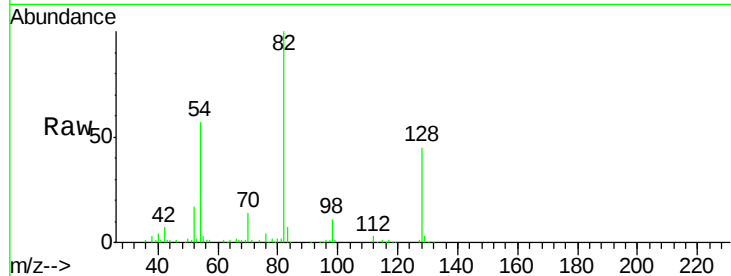
#23
Nitrobenzene-d5
Concen: 5.781 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Instrument :
BNA_F
ClientSampled :
OK-03-050919

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	44.6	35.5	53.3
54	57.4	48.5	72.7

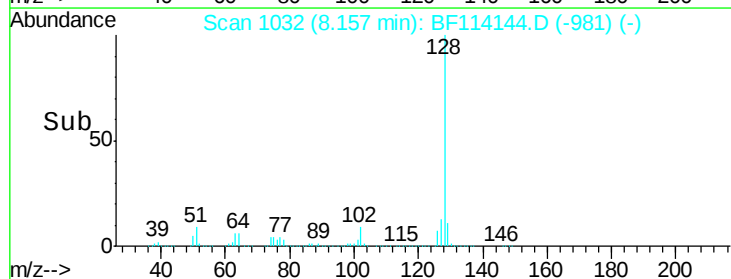
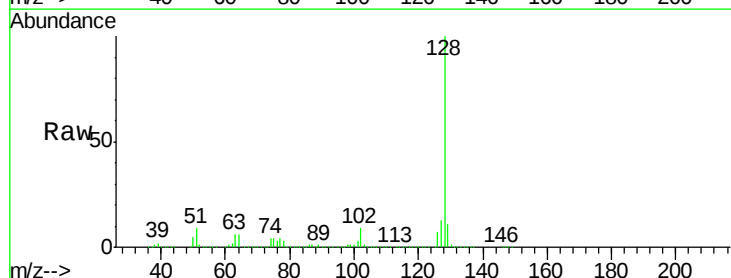
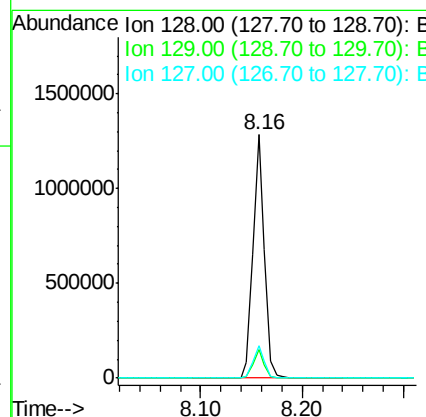
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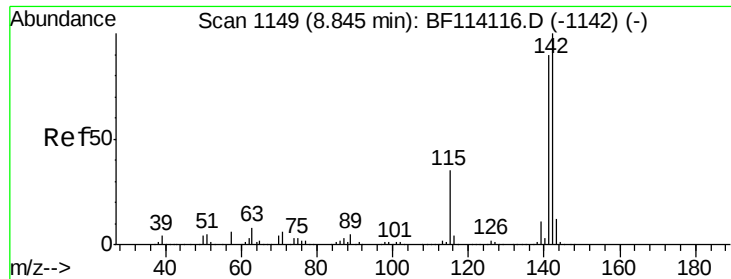
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#31
Naphthalene
Concen: 22.388 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.00 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	11.5	9.6	14.4
127	13.2	11.3	16.9





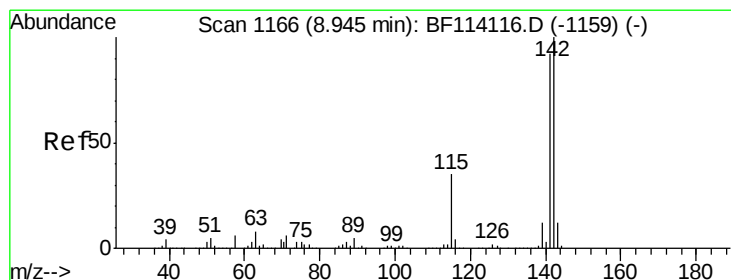
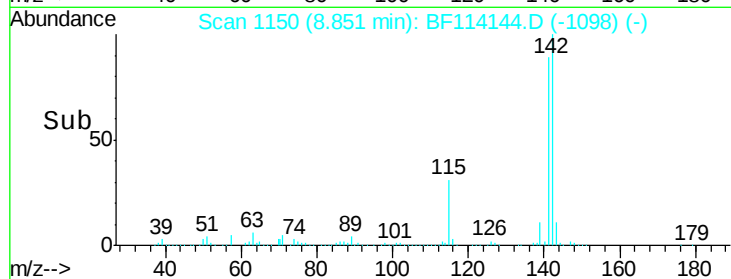
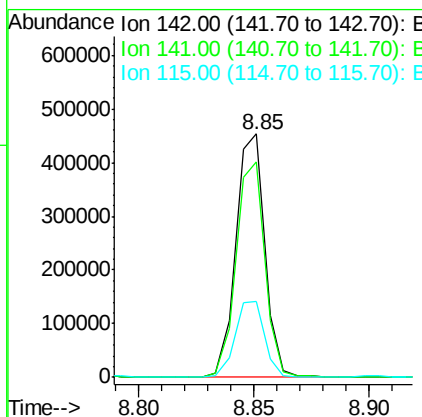
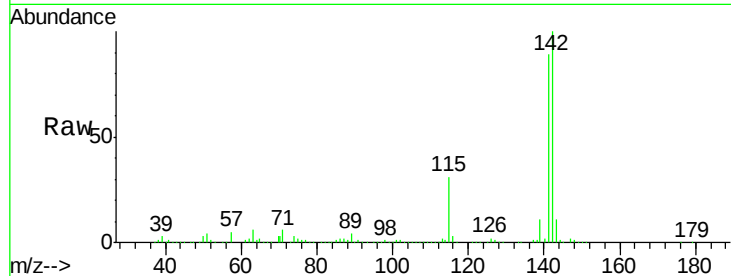
#37
2-Methylnaphthalene
Concen: 13.820 ng
RT: 8.85 min Scan# 1150
Delta R.T. 0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Instrument :
BNA_F
ClientSampleId :
OK-03-050919

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	398263		
141	88.7	72.1	108.1	
115	31.1	28.0	42.0	

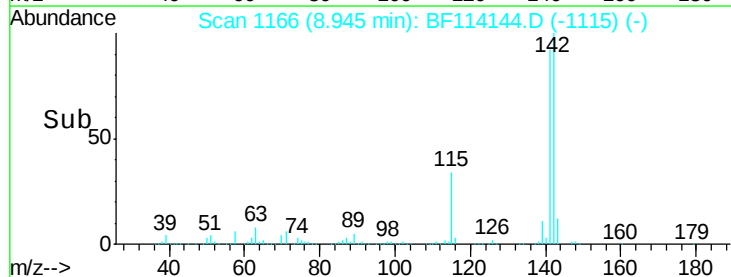
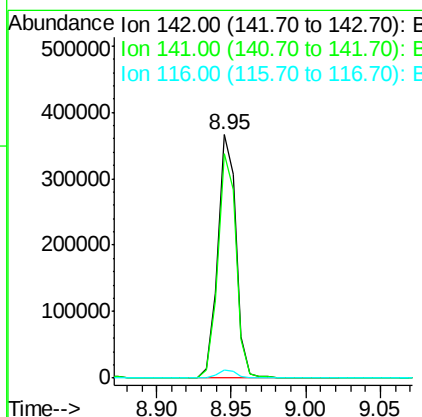
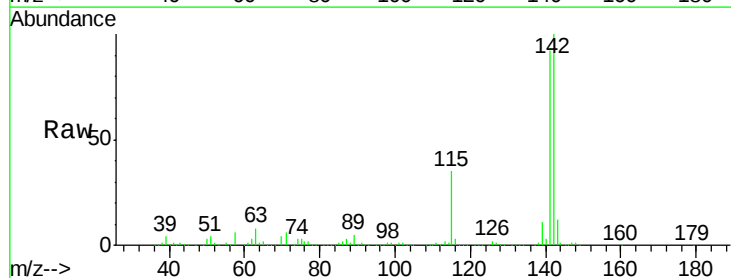
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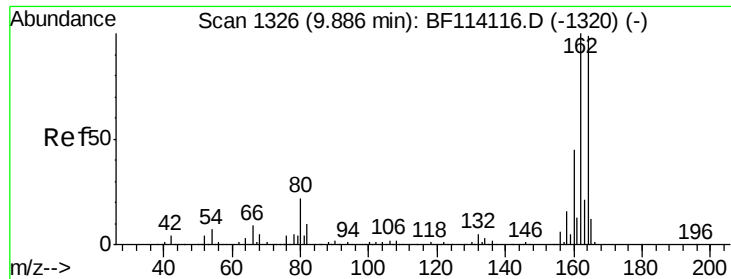
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#38
1-Methylnaphthalene
Concen: 11.600 ng
RT: 8.95 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	314808		
141	91.9	73.4	110.0	
116	3.4	3.1	4.7	





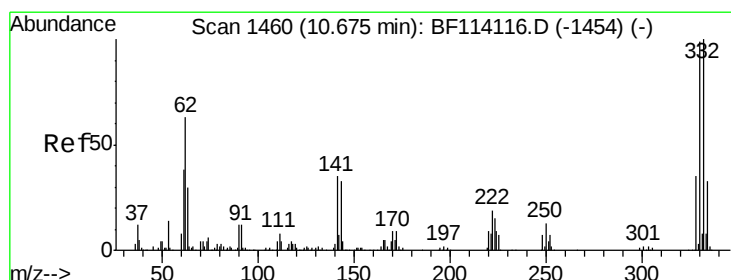
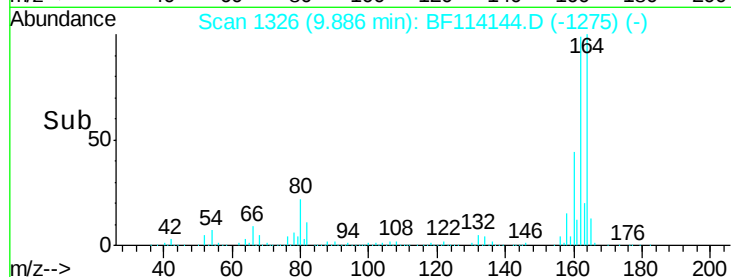
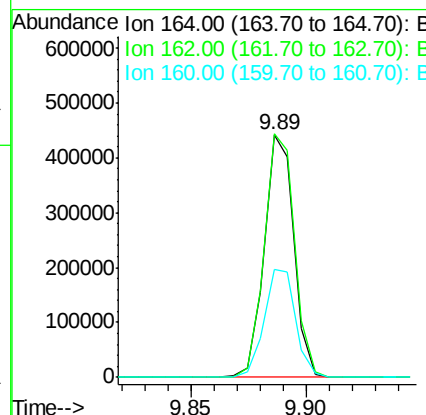
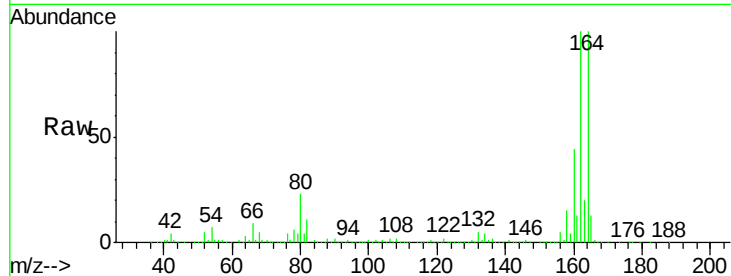
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Instrument :
BNA_F
ClientSampleId :
OK-03-050919

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	394899		
162	100.4	80.6	120.8	
160	44.3	36.5	54.7	

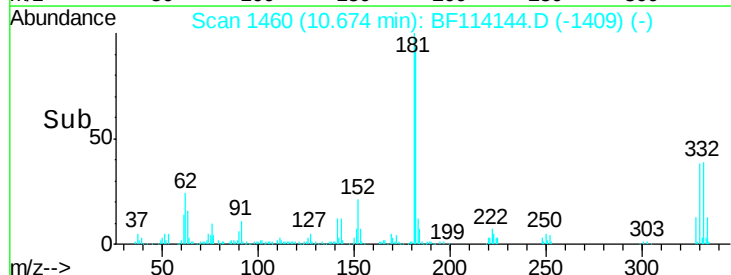
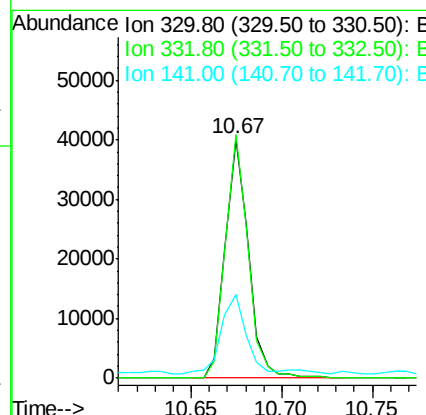
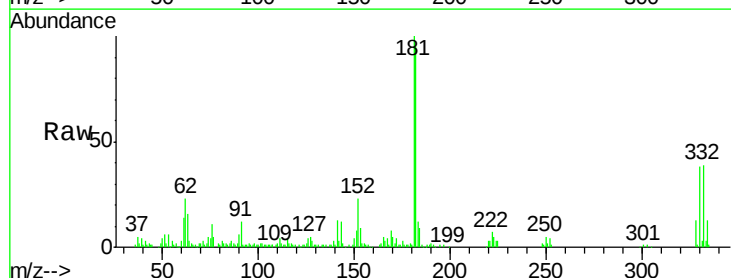
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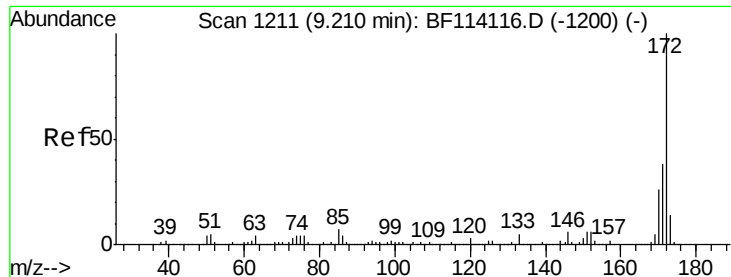
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#42
2,4,6-Tribromophenol
Concen: 8.818 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.00 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	36000		
332	98.7	81.4	122.2	
141	34.4	26.6	40.0	





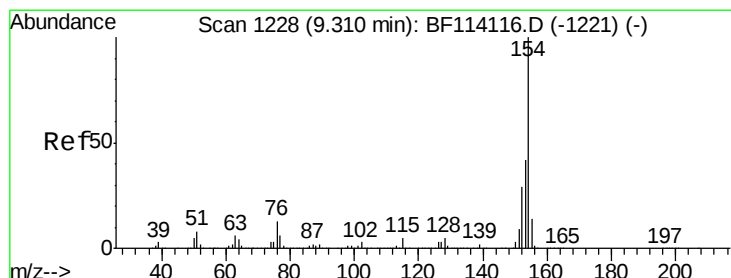
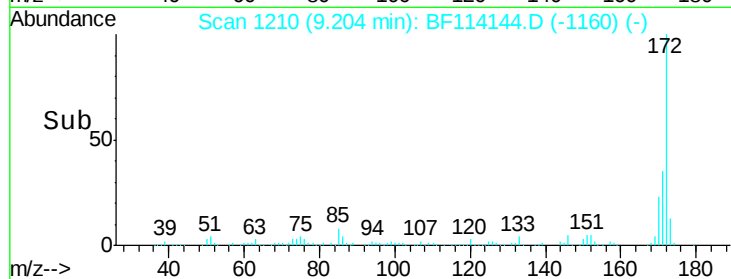
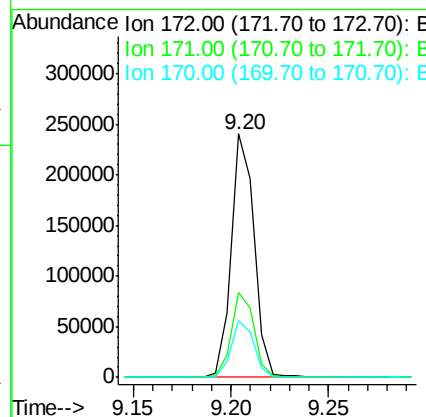
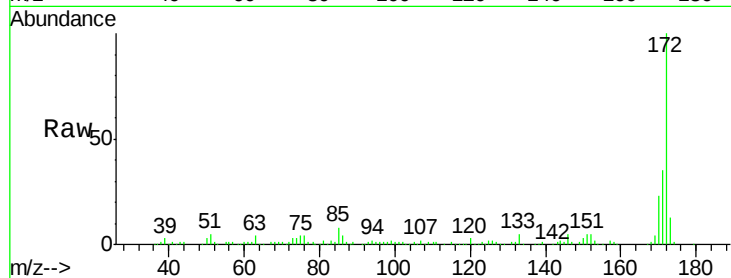
#45
 2-Fluorobiphenyl
 Concen: 7.491 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-050919

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	195567		
171	35.0		30.7	46.1
170	23.0		20.5	30.7

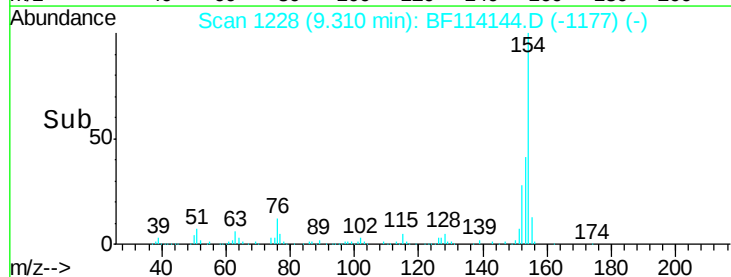
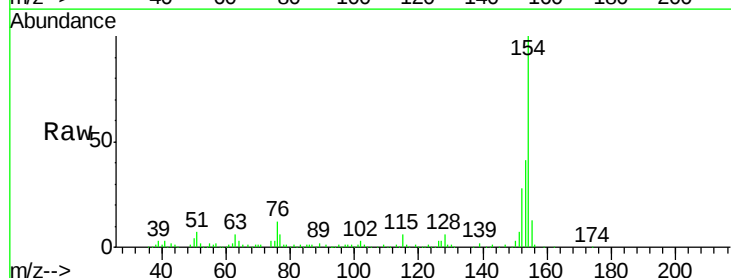
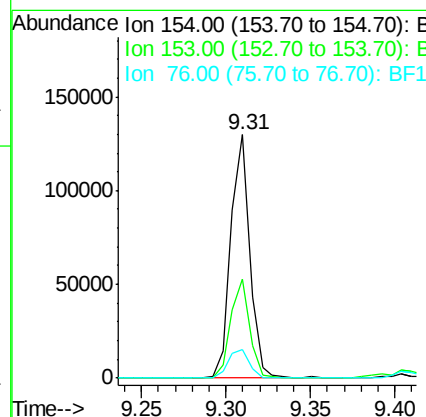
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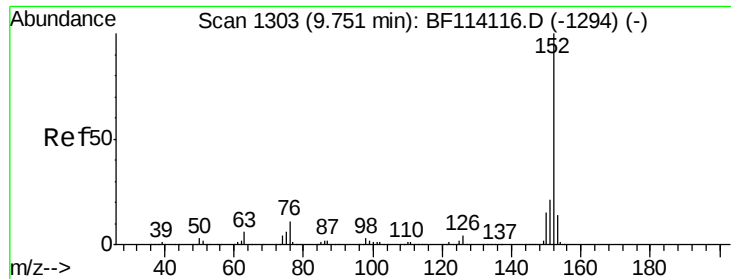
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#46
 1,1'-Biphenyl
 Concen: 3.193 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	101874		
153	40.5		21.9	61.9
76	11.7		0.0	32.8





#49

Acenaphthylene

Concen: 4.232 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.00 min

Lab File: BF114144.D

Acq: 11 May 2019 1:52

Instrument :

BNA_F

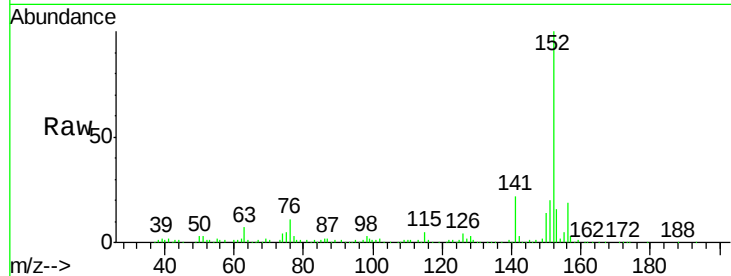
ClientSampleId :

OK-03-050919

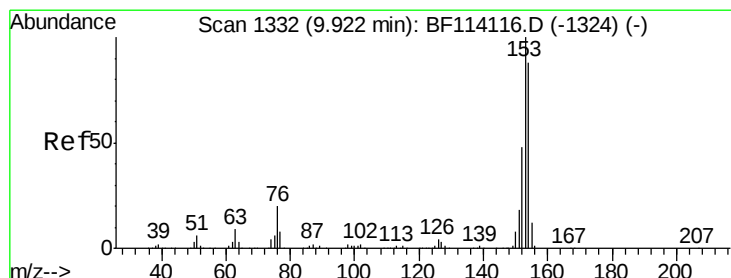
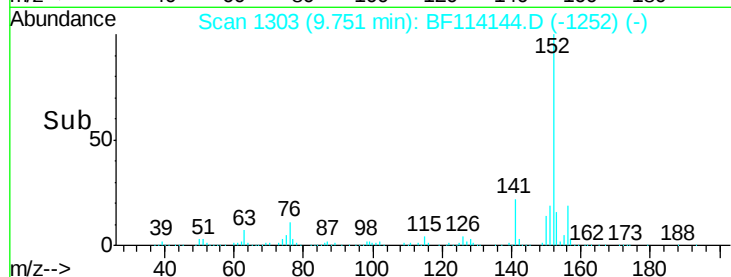
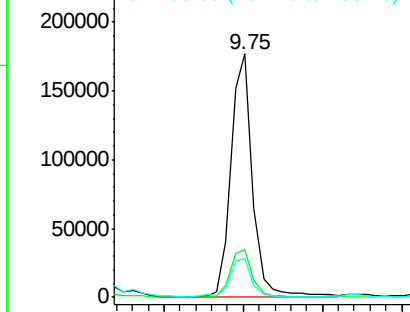
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	165254		
151	19.7	16.8	25.2	
153	15.8	11.4	17.2	

Manual Integrations
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#52

Acenaphthene

Concen: 23.425 ng

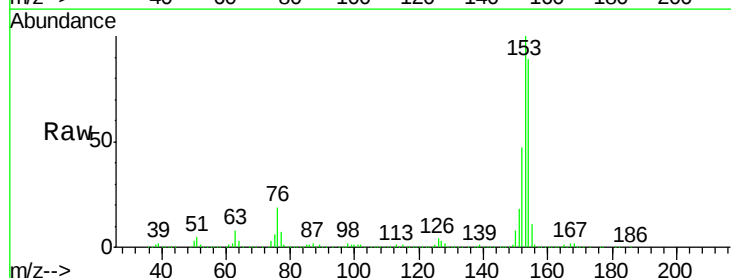
RT: 9.92 min Scan# 1332

Delta R.T. -0.00 min

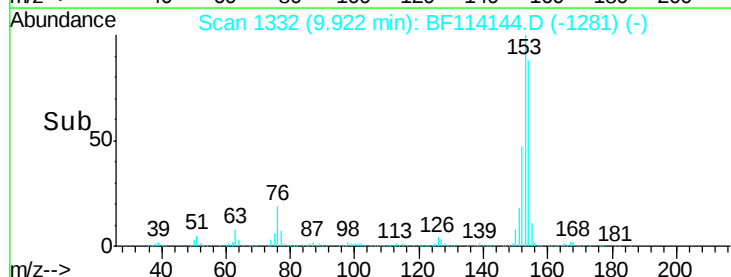
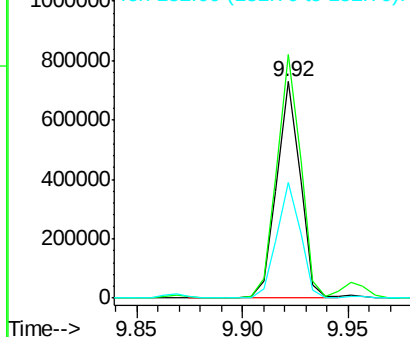
Lab File: BF114144.D

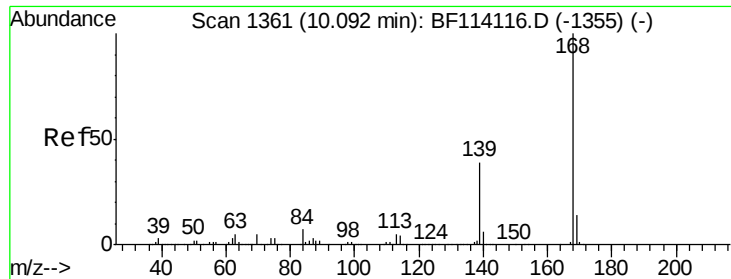
Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	561315		
153	112.5	90.5	135.7	
152	53.3	43.4	65.2	



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





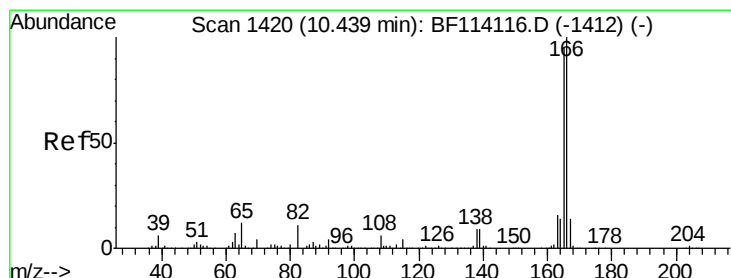
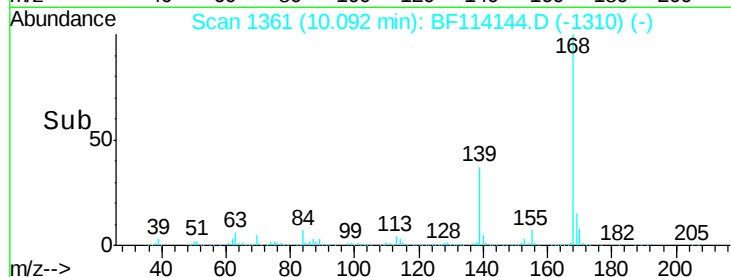
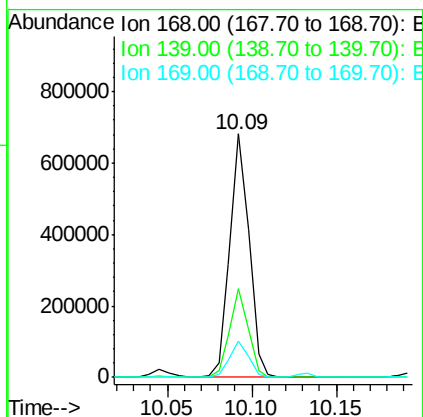
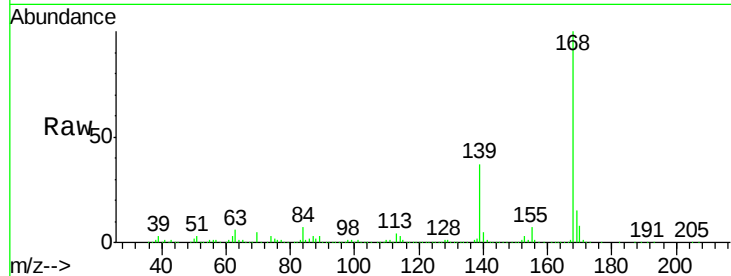
#55
Dibenzenofuran
Concen: 15.383 ng
RT: 10.09 min Scan# 1361
Delta R.T. -0.00 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Instrument :
BNA_F
ClientSampleId :
OK-03-050919

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	540506		
139	36.6	31.1	46.7	
169	14.7	11.4	17.0	

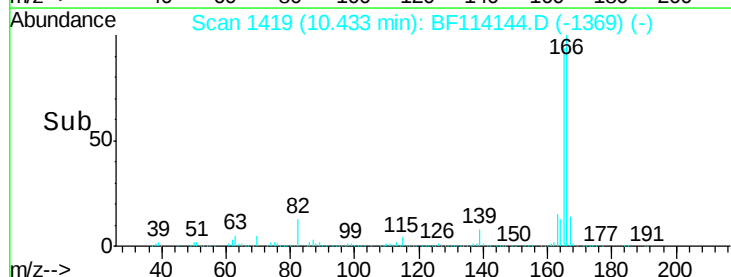
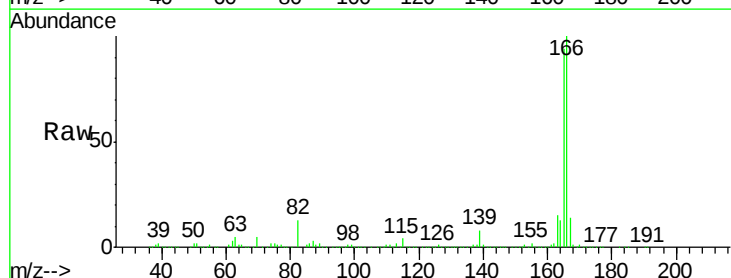
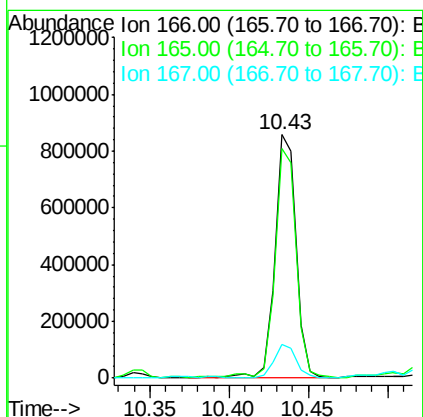
Manual Integrations
APPROVED

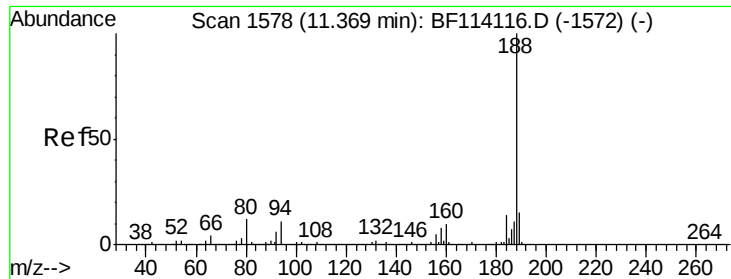
Sohil
5/13/2019 8:34:35 PM



#58
Fluorene
Concen: 29.244 ng
RT: 10.43 min Scan# 1419
Delta R.T. -0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	793694		
165	94.3	76.1	114.1	
167	14.1	11.1	16.7	





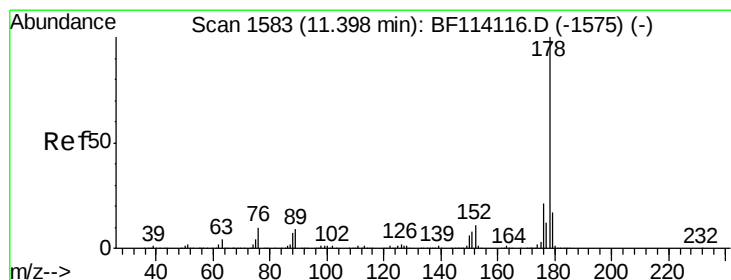
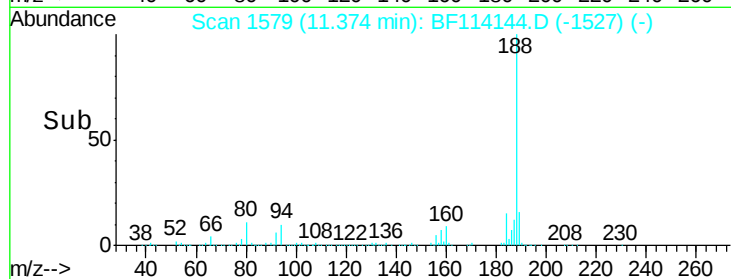
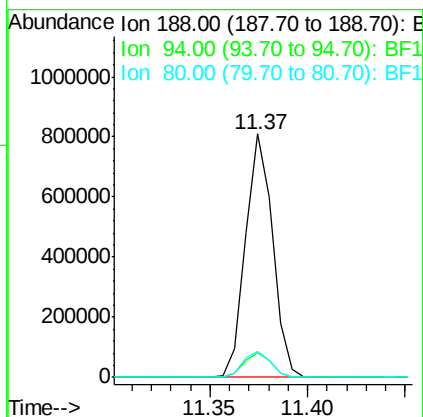
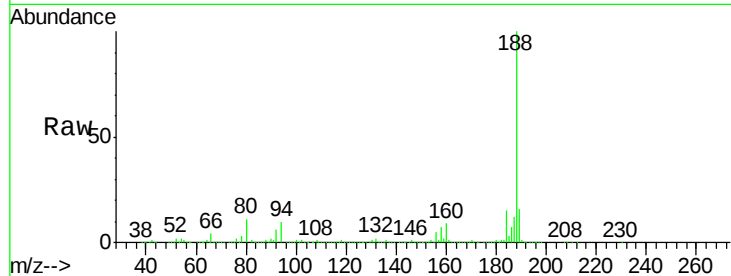
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Instrument :
BNA_F
ClientSampled :
OK-03-050919

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	10.3	8.4	12.6
80	10.9	9.2	13.8

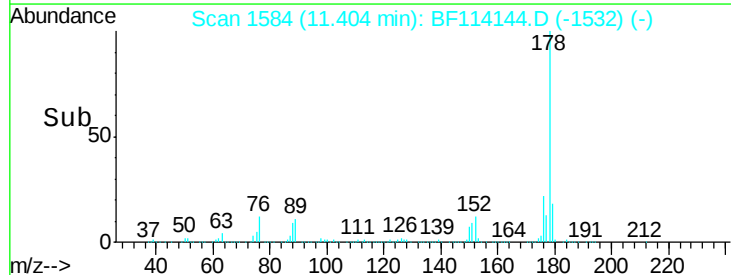
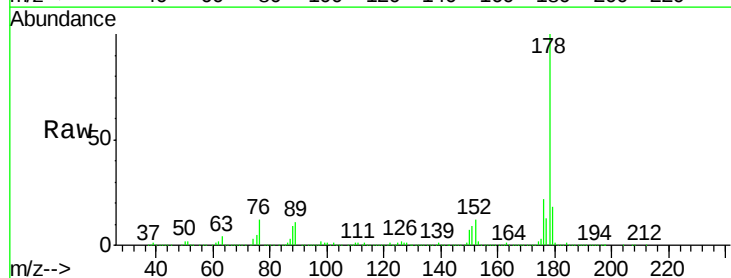
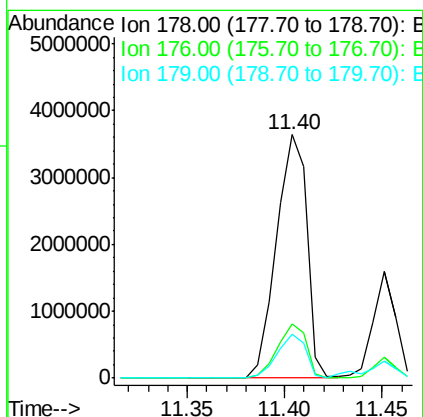
Manual Integrations
APPROVED

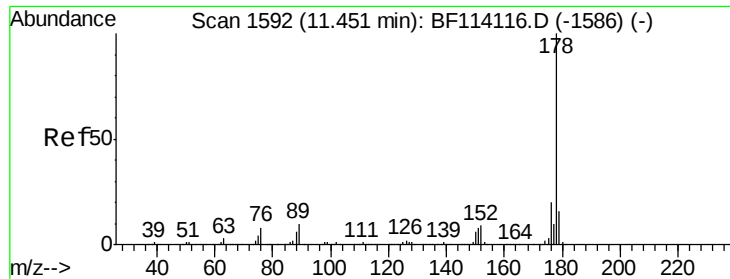
Sohil
5/13/2019 8:34:35 PM



#71
Phenanthrene
Concen: 103.410 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	22.4	16.4	24.6
179	17.9	13.2	19.8





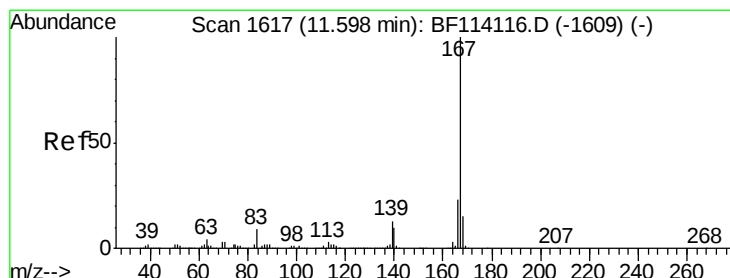
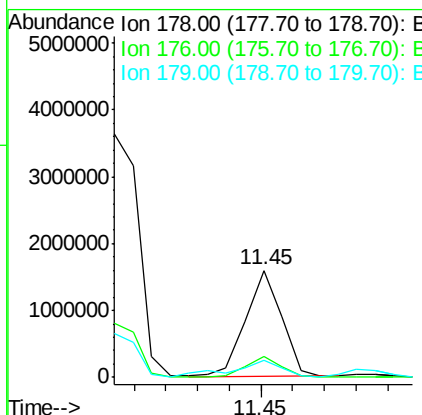
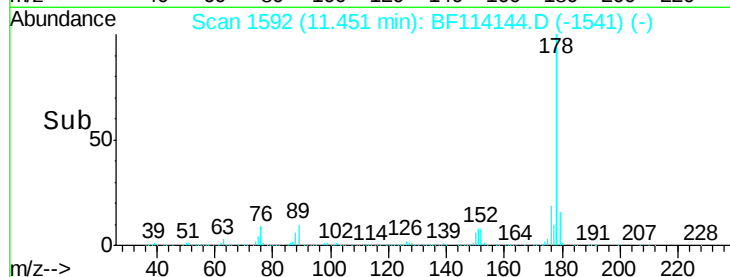
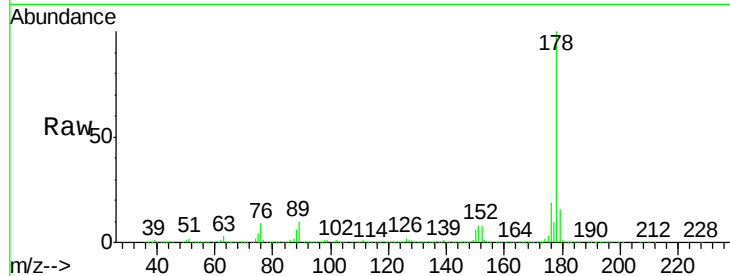
#72
 Anthracene
 Concen: 32.630 ng
 RT: 11.45 min Scan# 1592
 Delta R.T. -0.00 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-050919

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.8	13.0	19.4

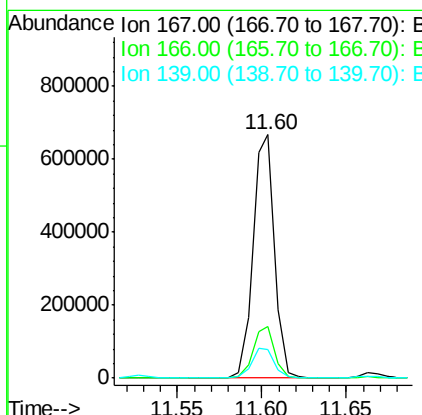
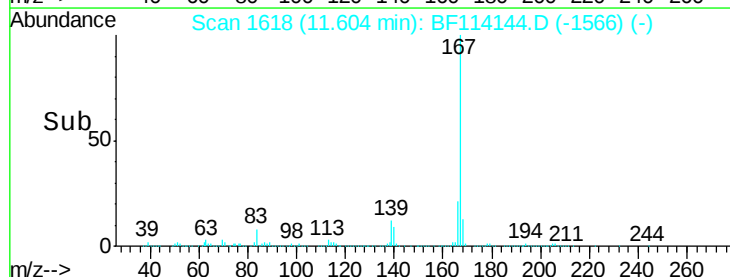
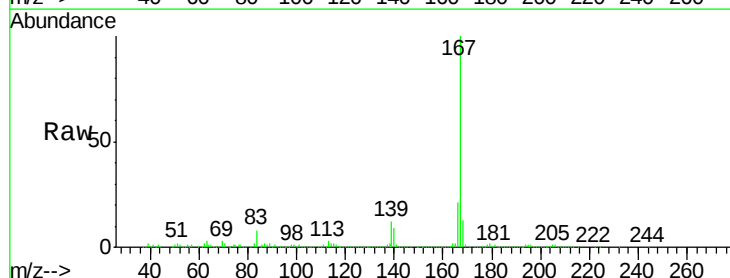
Manual Integrations
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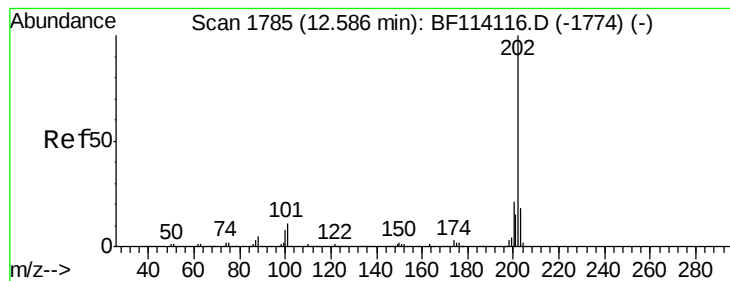
Sohil
 5/13/2019 8:34:35 PM



#73
 Carbazole
 Concen: 16.215 ng
 RT: 11.60 min Scan# 1618
 Delta R.T. 0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	18.2	27.2
139	11.7	10.6	16.0





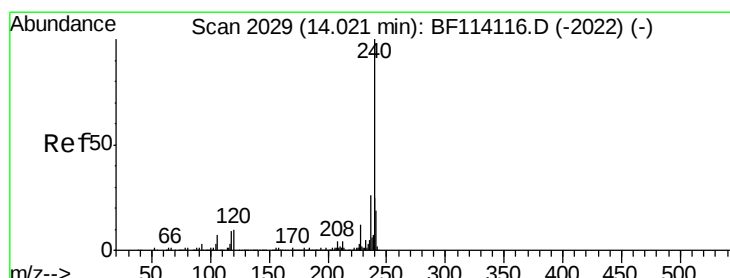
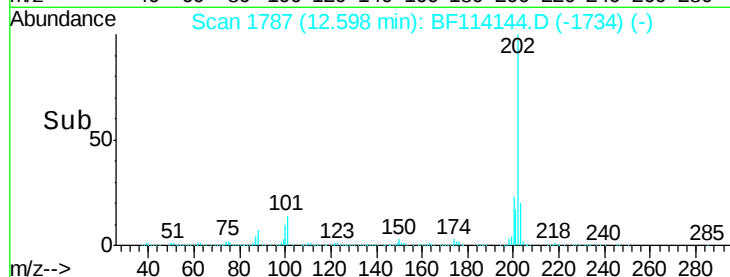
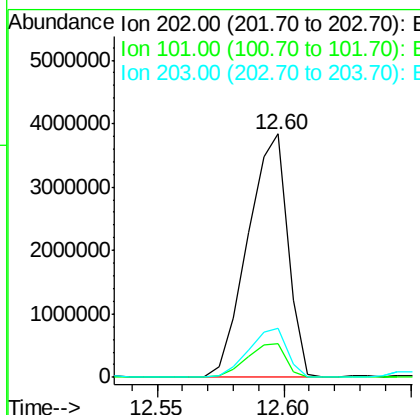
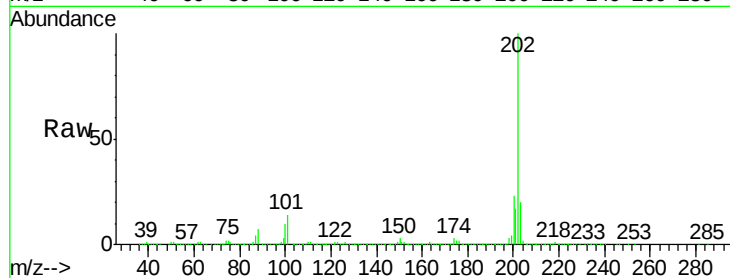
#75
 Fluoranthene
 Concen: 103.302 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. 0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-050919

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	31.0
203	20.3	0.0	38.4

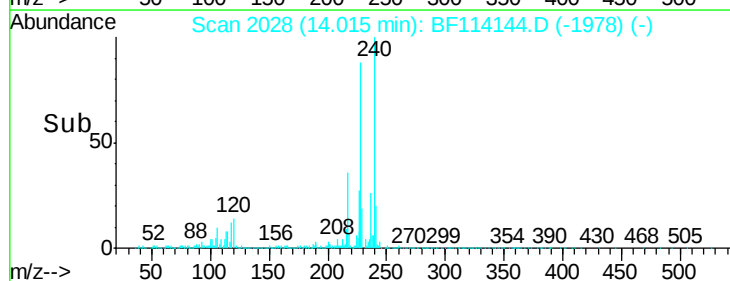
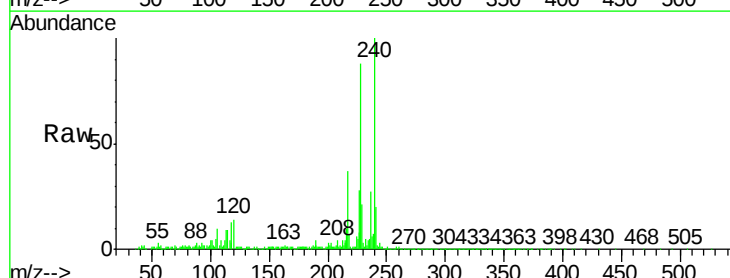
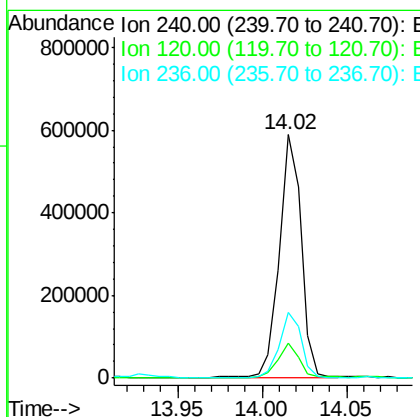
Manual Integrations
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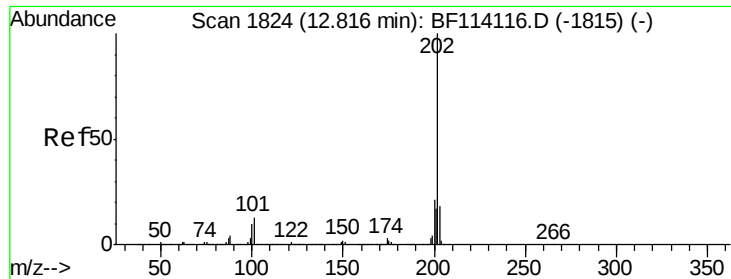
Sohil
 5/13/2019 8:34:35 PM



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.2	8.3	12.5#
236	26.7	20.8	31.2





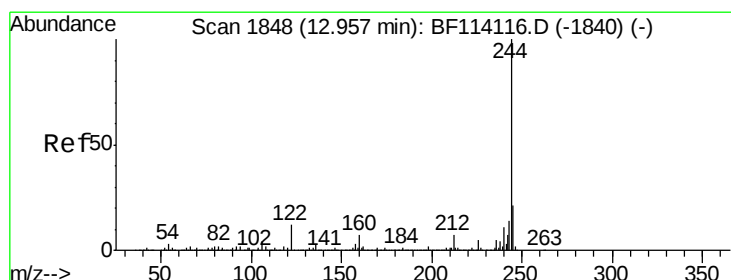
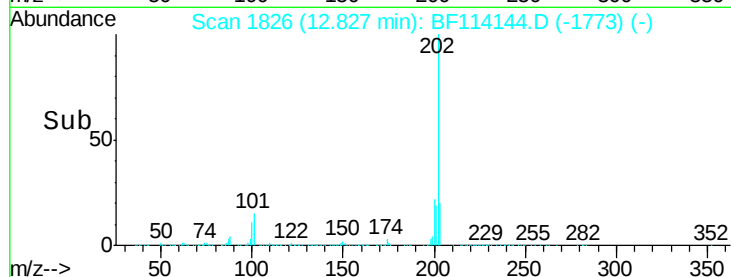
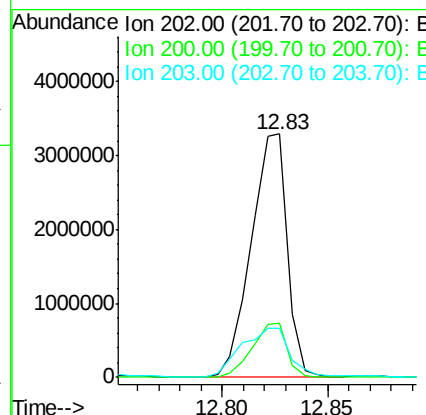
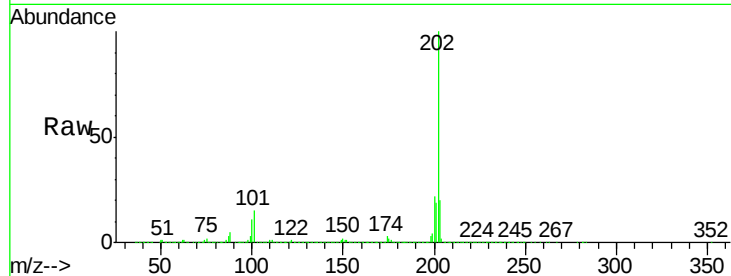
#78
 Pyrene
 Concen: 92.179 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. 0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-050919

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	16.9	25.3
203	19.9	14.5	21.7

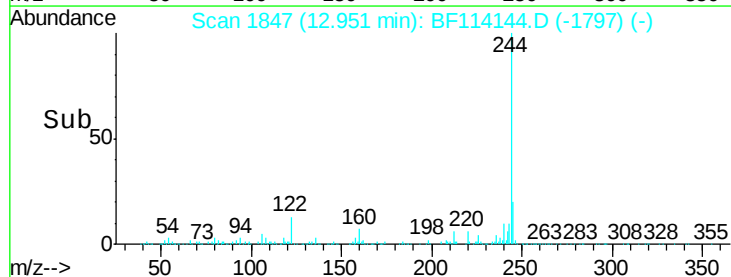
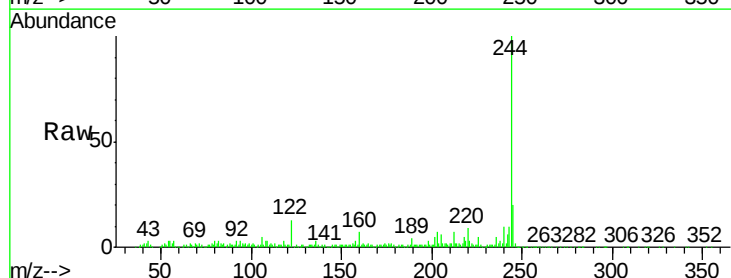
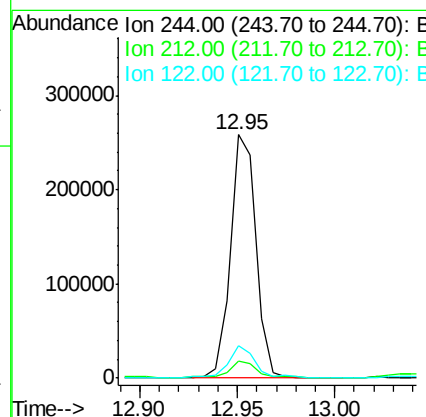
Manual Integrations
 APPROVED

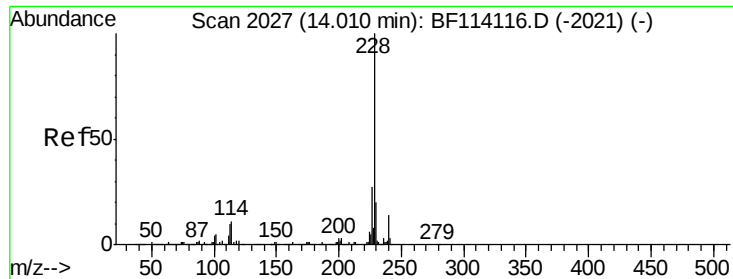
Sohil
 5/13/2019 8:34:35 PM



#79
 Terphenyl-d14
 Concen: 9.085 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.8	8.6
122	13.2	9.4	14.2





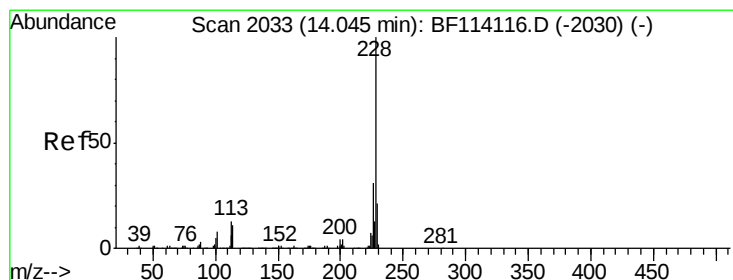
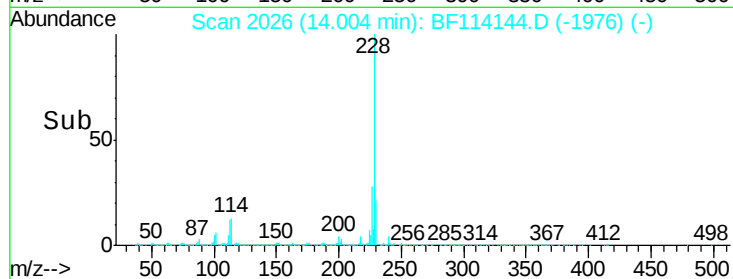
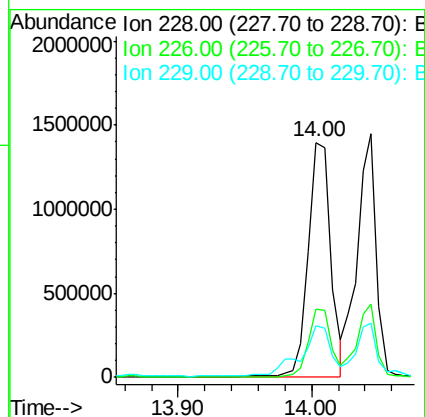
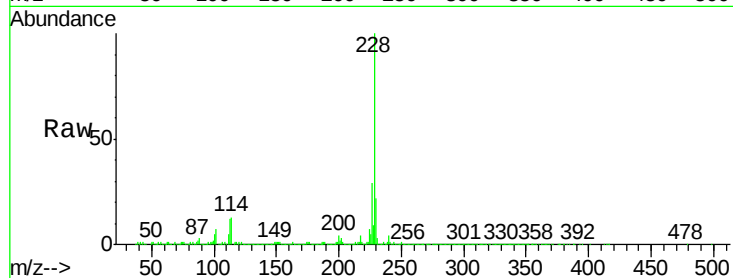
#81
Benzo(a)anthracene
Concen: 46.927 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Instrument :
BNA_F
ClientSampleId :
OK-03-050919

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.2
229	21.8	16.4	24.6

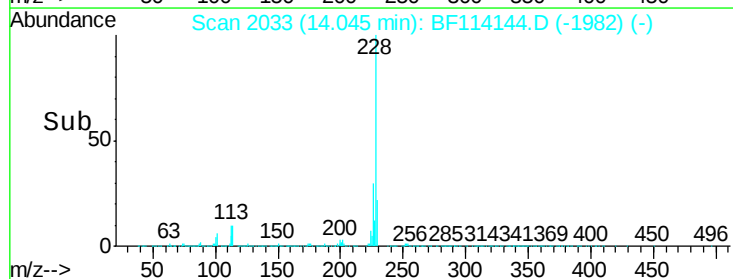
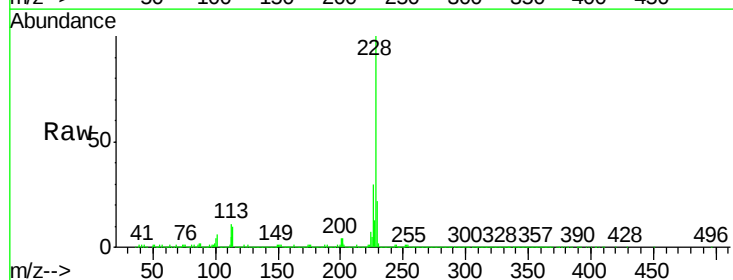
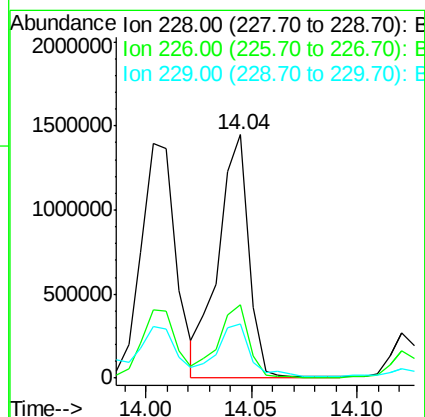
Manual Integrations
APPROVED

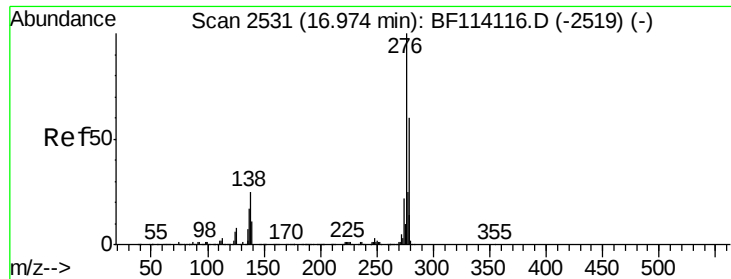
Sohil
5/13/2019 8:34:35 PM



#83
Chrysene
Concen: 42.939 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.00 min
Lab File: BF114144.D
Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	22.5	17.0	25.6





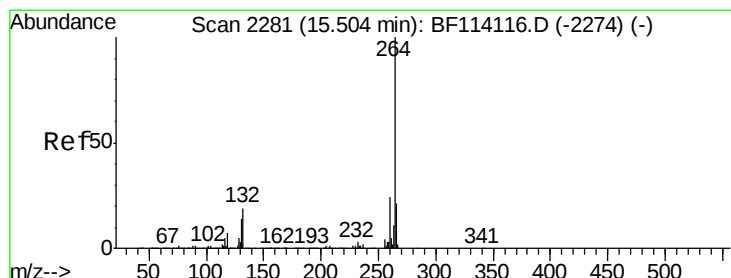
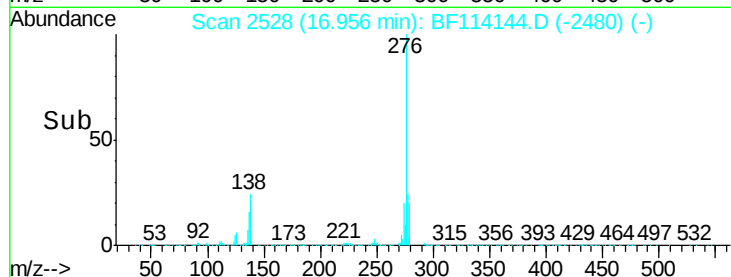
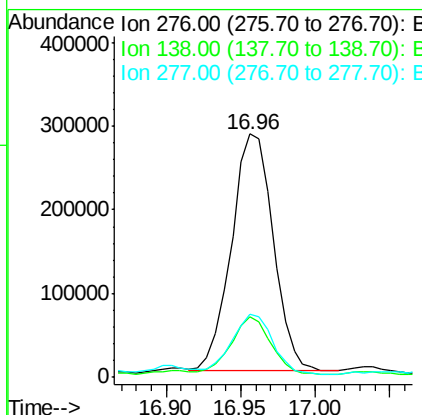
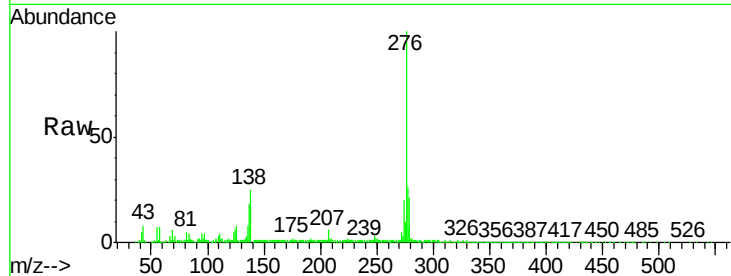
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 18.606 ng
 RT: 16.96 min Scan# 2528
 Delta R.T. -0.02 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-050919

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.1	20.2	30.2
277	24.8	20.0	30.0

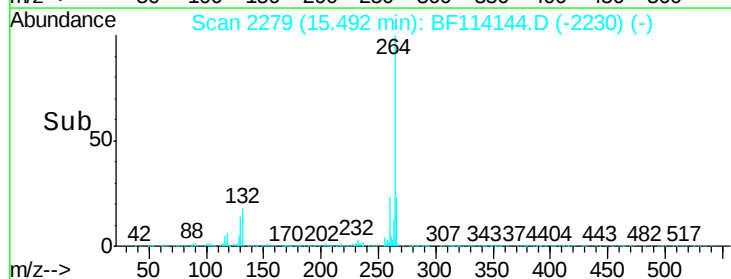
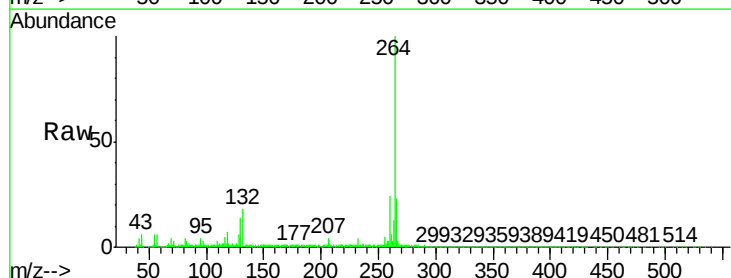
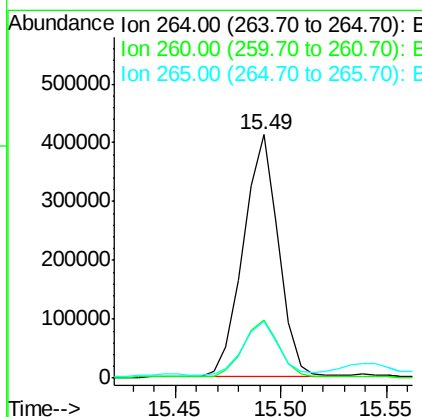
Manual Integrations
 APPROVED

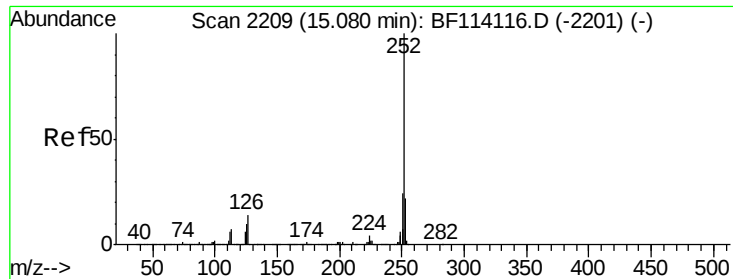
Sohil
 5/13/2019 8:34:35 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. -0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.0
265	23.3	16.9	25.3





#88

Benzo(b)fluoranthene

Concen: 43.680 ng m

RT: 15.07 min Scan# 2207

Delta R.T. -0.01 min

Lab File: BF114144.D

Acq: 11 May 2019 1:52

Instrument :

BNA_F

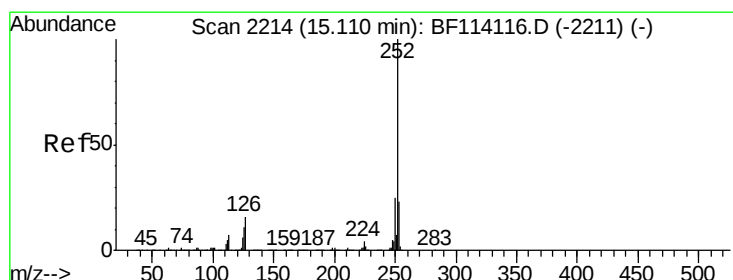
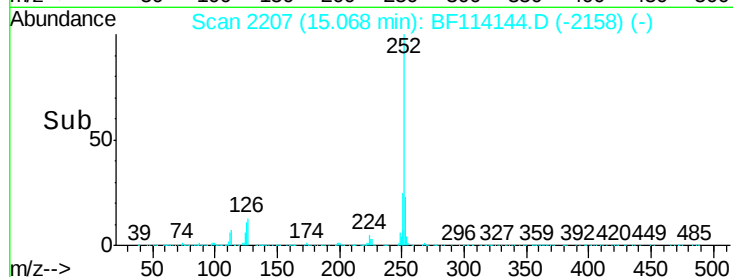
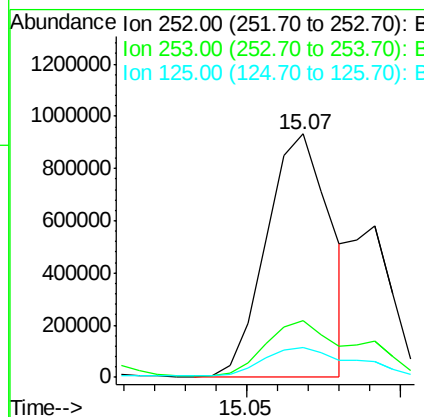
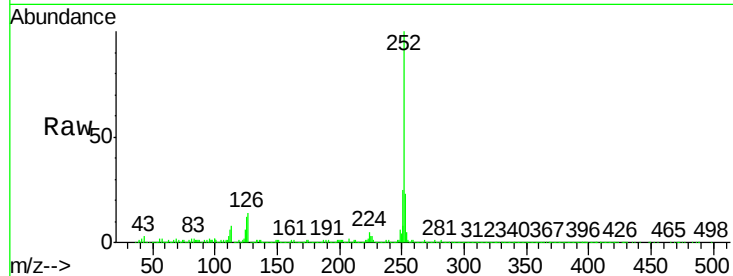
ClientSampleId :

OK-03-050919

Tgt Ion:	252	Resp:	1339147
Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	12.0	8.3	12.5

Manual Integrations
APPROVED

Sohil
5/13/2019 8:34:35 PM



#89

Benzo(k)fluoranthene

Concen: 19.181 ng m

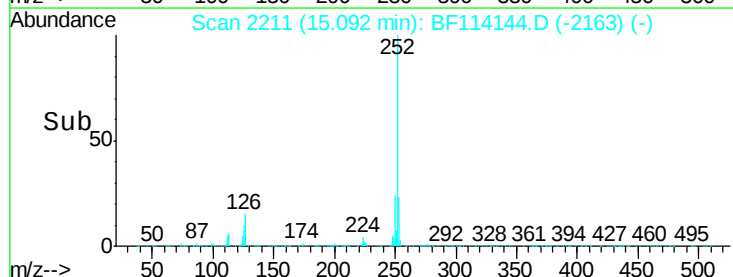
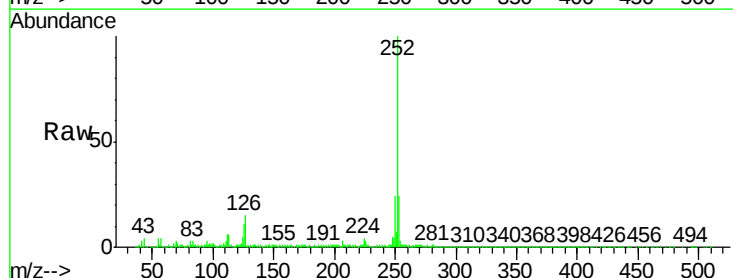
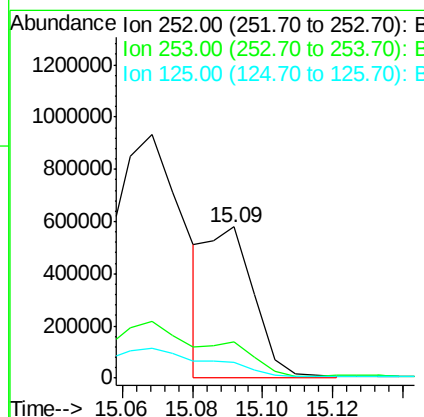
RT: 15.09 min Scan# 2211

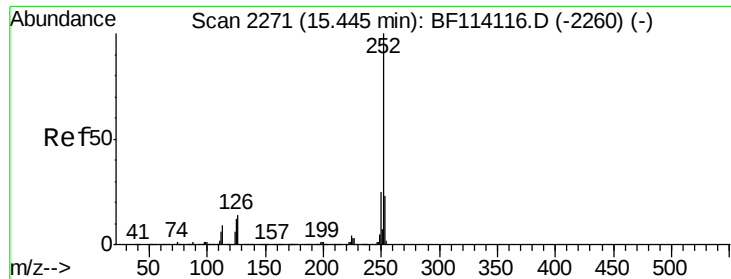
Delta R.T. -0.02 min

Lab File: BF114144.D

Acq: 11 May 2019 1:52

Tgt Ion:	252	Resp:	540191
Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	10.8	8.6	13.0





#90

Benzo(a)pyrene

Concen: 38.676 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BF114144.D

Acq: 11 May 2019 1:52

Instrument :

BNA_F

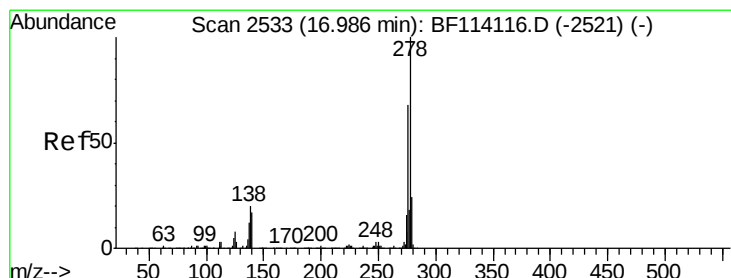
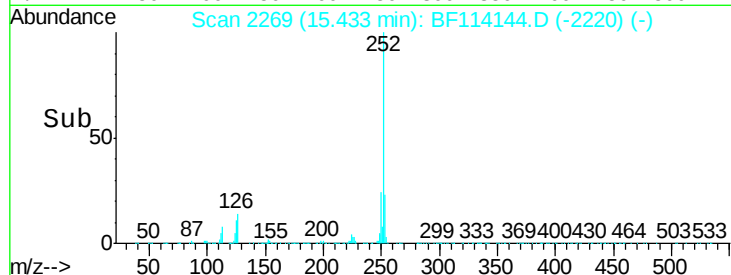
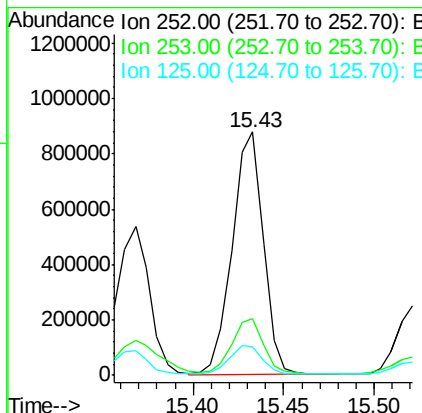
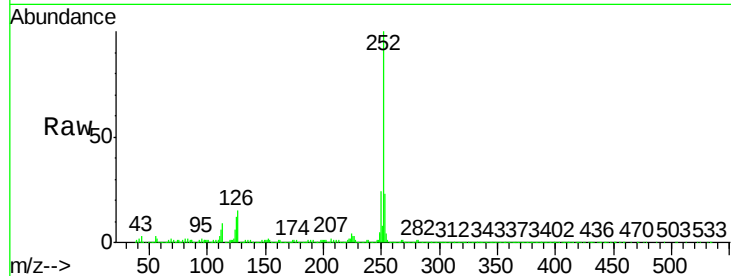
ClientSampled :

OK-03-050919

Tgt Ion:	252	Resp:	1043525
Ion Ratio	Lower	Upper	
252	100		
253	23.5	18.1	27.1
125	11.6	9.5	14.3

Manual Integrations
APPROVED

Sohil
5/13/2019 8:34:35 PM



#91

Dibenzo(a,h)anthracene

Concen: 6.054 ng m

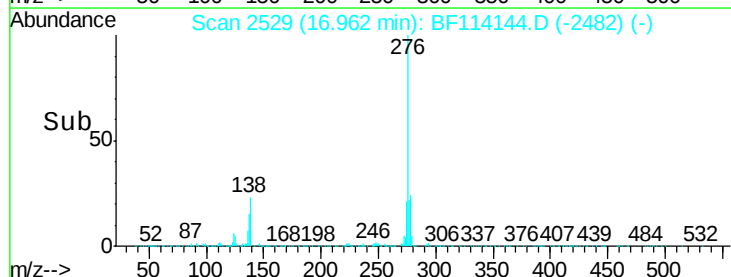
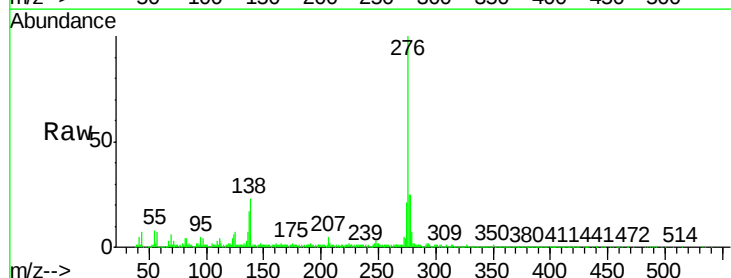
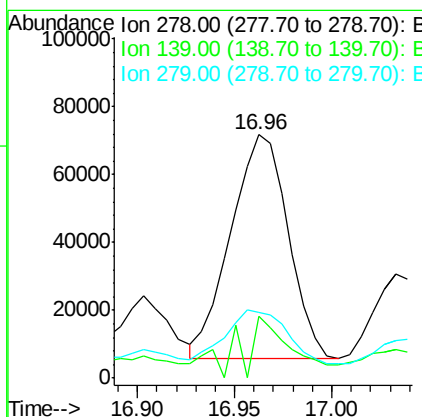
RT: 16.96 min Scan# 2529

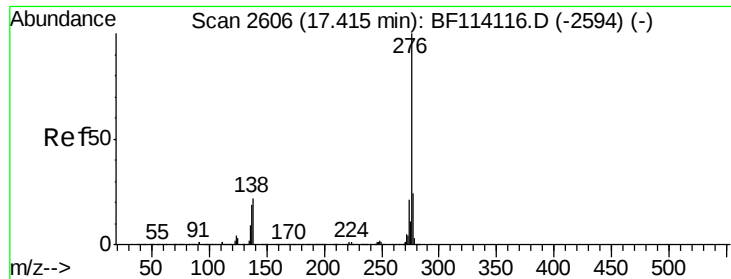
Delta R.T. -0.02 min

Lab File: BF114144.D

Acq: 11 May 2019 1:52

Tgt Ion:	278	Resp:	135739
Ion Ratio	Lower	Upper	
278	100		
139	25.2	13.5	20.3#
279	27.1	19.0	28.6





#92
 Benzo(g,h,i)perylene
 Concen: 24.990 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. -0.01 min
 Lab File: BF114144.D
 Acq: 11 May 2019 1:52

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-050919

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.0	28.4
138	23.5	17.8	26.6

Manual Integrations
 APPROVED

Sohil
 5/13/2019 8:34:35 PM

