

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083019\
 Data File : BF116678.D
 Acq On : 31 Aug 2019 4:13
 Operator : HP/JU
 Sample : K4527-02
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 31 06:37:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	110086	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	430151	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	221505	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	357695	20.00	ng	0.00
76) Chrysene-d12	13.99	240	216350	20.00	ng	0.00
87) Perylene-d12	15.44	264	249441	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	613496	90.28	ng	0.00
7) Phenol-d6	6.47	99	828304	92.83	ng	0.00
23) Nitrobenzene-d5	7.40	82	508588	67.50	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	144131	97.33	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	810223	61.70	ng	0.00
79) Terphenyl-d14	12.95	244	698762	59.75	ng	0.00

Target Compounds

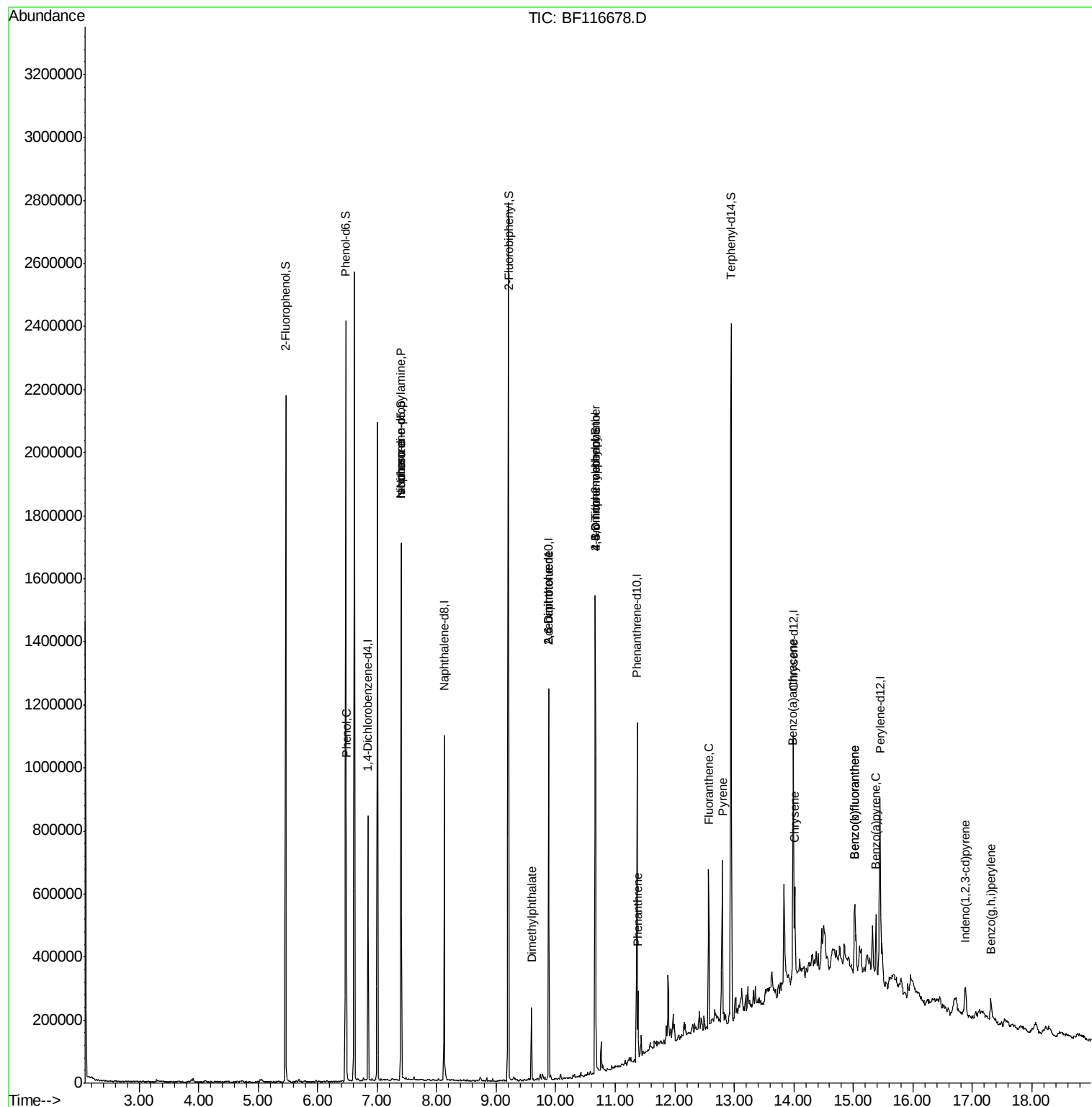
						Qvalue
10) Phenol	6.49	94	37668	3.812	ng	89
19) n-Nitroso-di-n-propylamine	7.40	70	68755	11.703	ng	# 73
25) Isophorone	7.40	82	508577	33.309	ng	# 66
50) Dimethylphthalate	9.59	163	85085	5.564	ng	99
51) 2,6-Dinitrotoluene	9.88	165	29351	10.060	ng	# 21
57) 2,4-Dinitrotoluene	9.88	165	29351	8.227	ng	# 21
65) 4,6-Dinitro-2-methylphenol	10.66	198	281	7.631	ng	# 1
67) 4-Bromophenyl-phenylether	10.66	248	9924	2.731	ng	# 1
71) Phenanthrene	11.38	178	80929	4.064	ng	100
75) Fluoranthene	12.57	202	170322	8.704	ng	98
78) Pyrene	12.80	202	201340	10.469	ng	99
81) Benzo(a)anthracene	13.98	228	100726	7.356	ng	99
83) Chrysene	14.02	228	101183	7.173	ng	97
86) Indeno(1,2,3-cd)pyrene	16.88	276	56226	4.962	ng	99
88) Benzo(b)fluoranthene	15.02	252	157955	10.474	ng	# 94
89) Benzo(k)fluoranthene	15.02	252	157955	11.487	ng	# 95
90) Benzo(a)pyrene	15.38	252	88408	6.738	ng	# 95
92) Benzo(a,h,i)perylene	17.32	276	51432	4.391	ng	# 92

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

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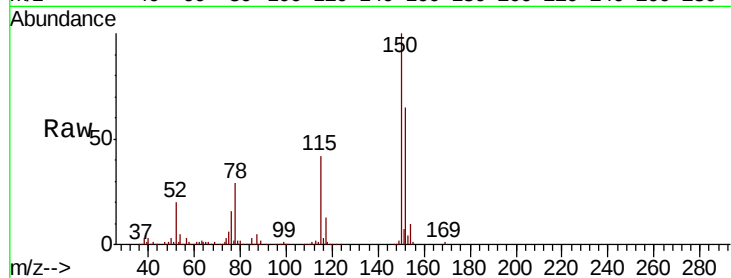


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.4	186.6
115	64.8	49.9	74.9

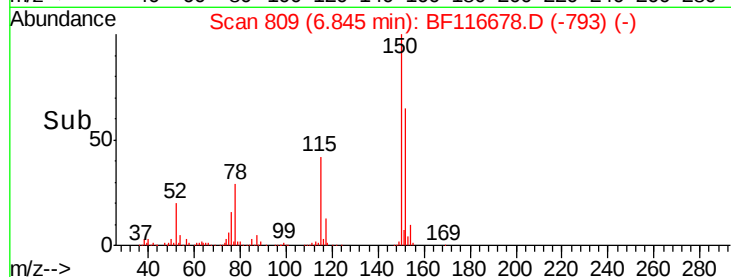
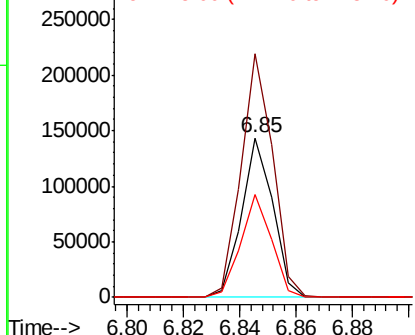


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

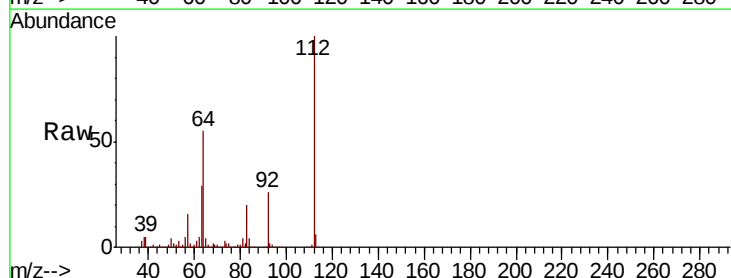
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 90.284 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	47.1	70.7
63	29.3	24.9	37.3

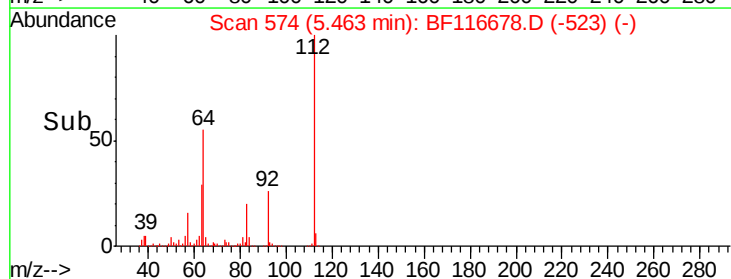
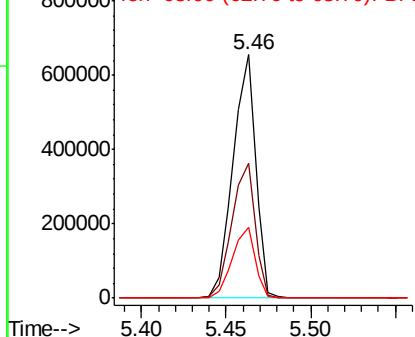


Abundance

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: 92.830 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

Instrument :

BNA_F

ClientSampled :

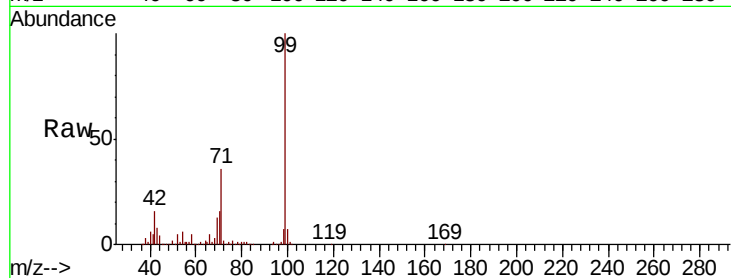
Tot Ion: 99 Resp: 828304

Ion Ratio Lower Upper

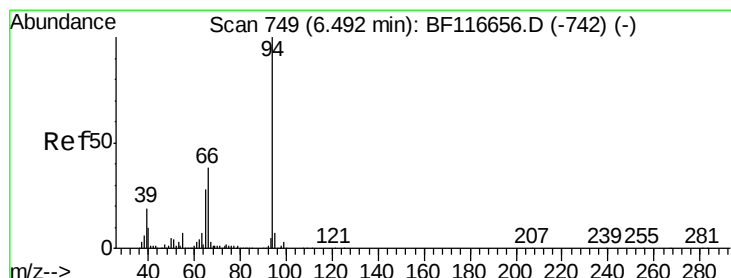
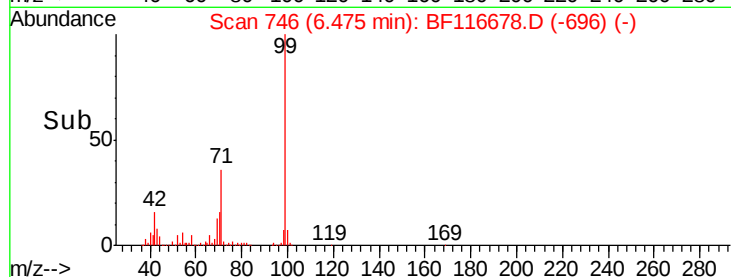
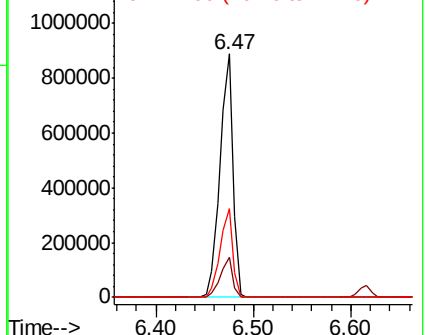
99 100

42 16.2 13.7 20.5

71 36.3 30.8 46.2



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.812 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

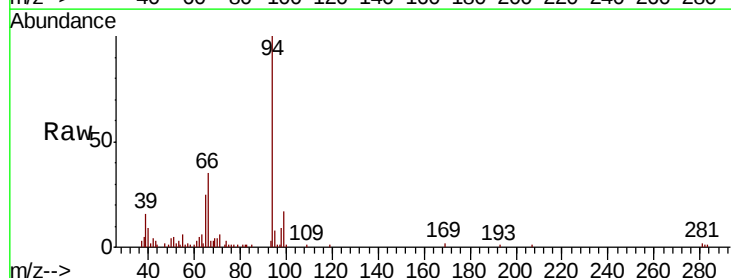
Tgt Ion: 94 Resp: 37668

Ion Ratio Lower Upper

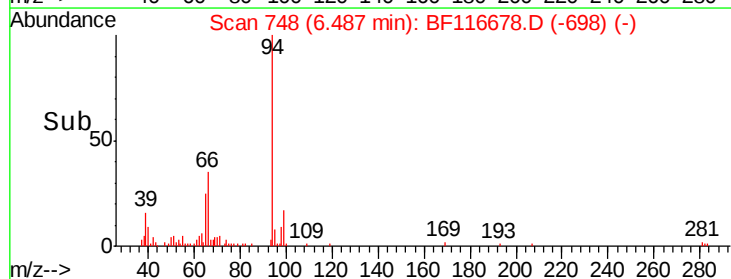
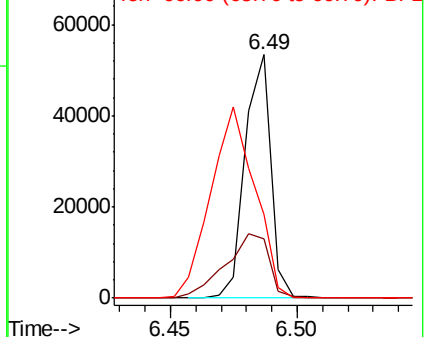
94 100

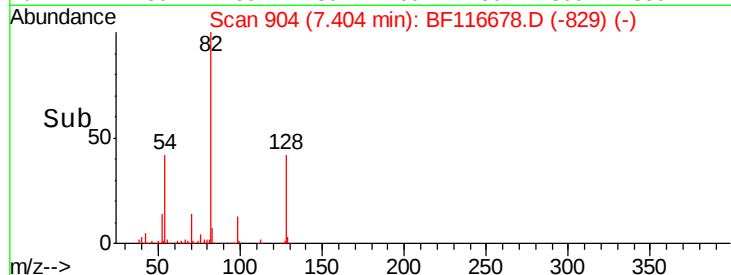
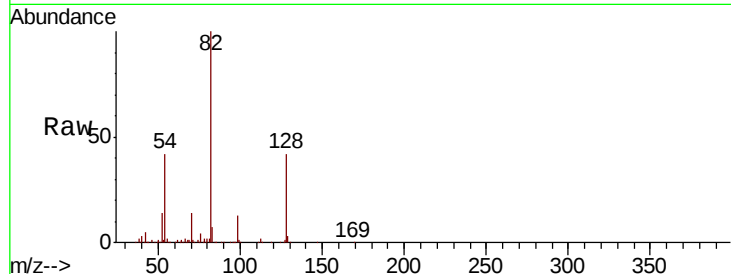
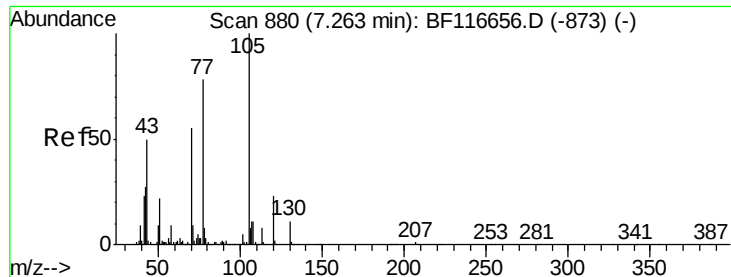
65 24.6 10.8 50.8

66 34.5 21.1 61.1



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

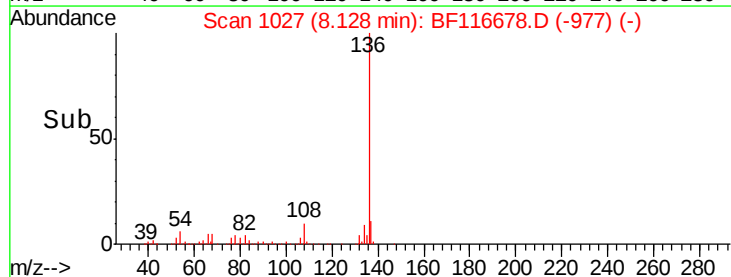
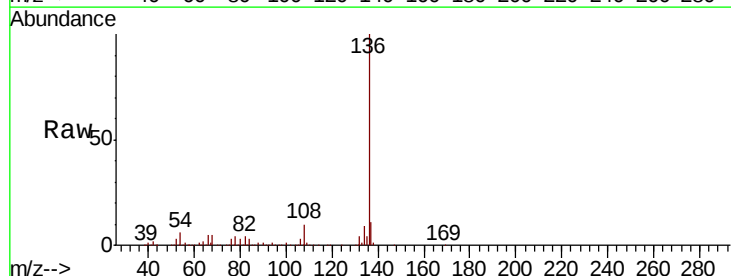
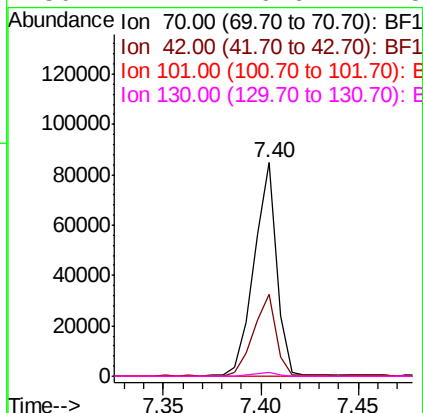




#19
n-Nitroso-di-n-propylamine
Concen: 11.703 ng
RT: 7.40 min Scan# 904
Delta R.T. 0.14 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

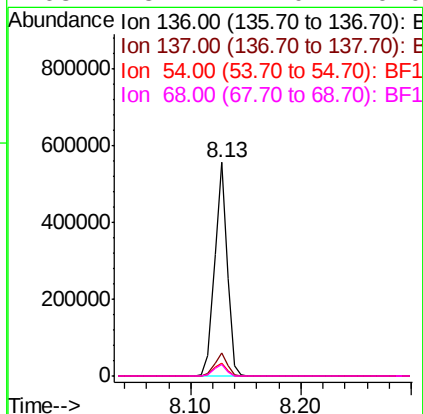
Instrument :
BNA_F
ClientSampleId :

Tot Ion:	70	Resp:	68755
Ion	Ratio	Lower	Upper
70	100		
42	38.1	43.5	65.3#
101	0.0	7.8	11.6#
130	2.1	16.6	24.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion:	136	Resp:	430151
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	6.2	4.8	7.2
68	5.4	4.0	6.0





#23

Nitrobenzene-d5

Concen: 67.497 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

Instrument :

BNA_F

ClientSampleId :

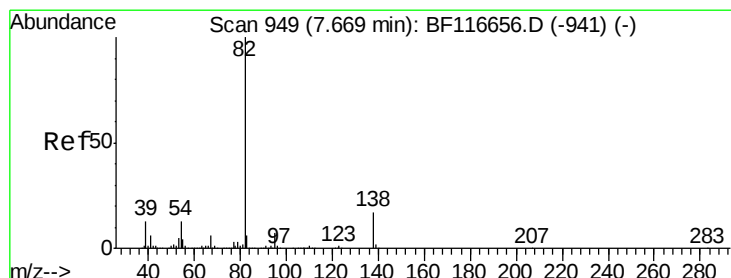
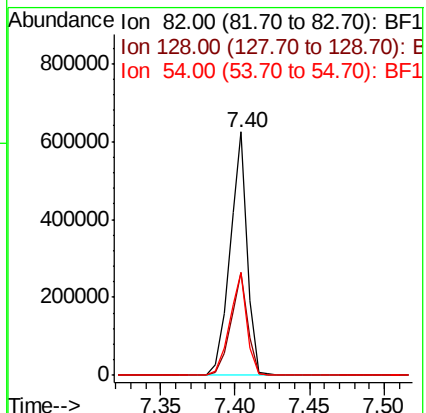
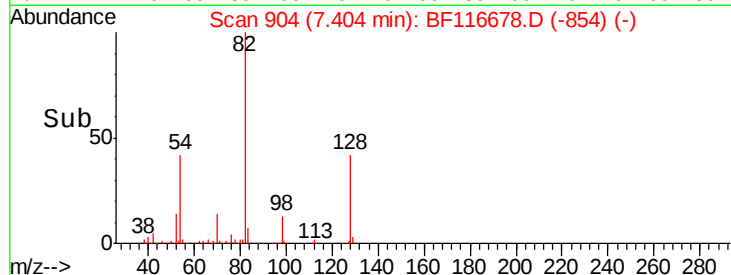
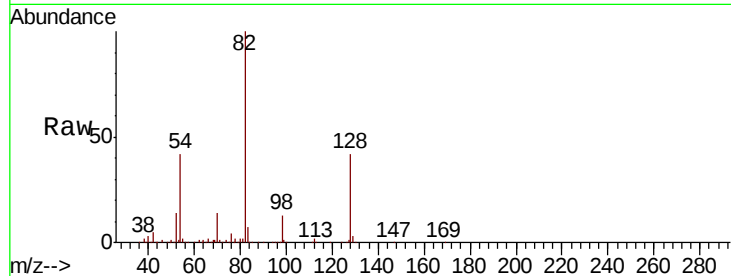
Tot Ion: 82 Resp: 508588

Ion Ratio Lower Upper

82 100

128 42.1 32.8 49.2

54 42.0 36.9 55.3



#25

Isophorone

Concen: 33.309 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

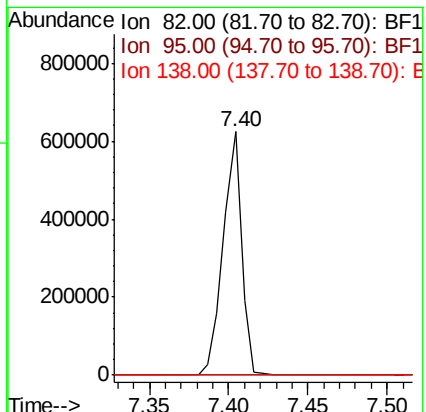
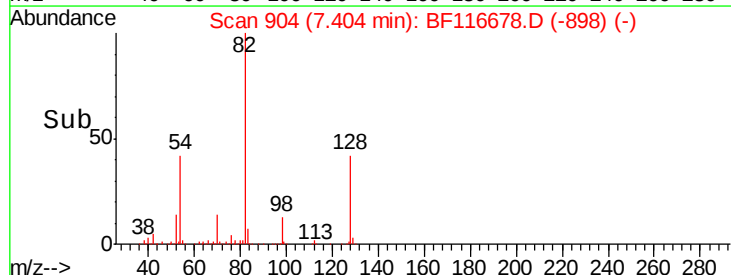
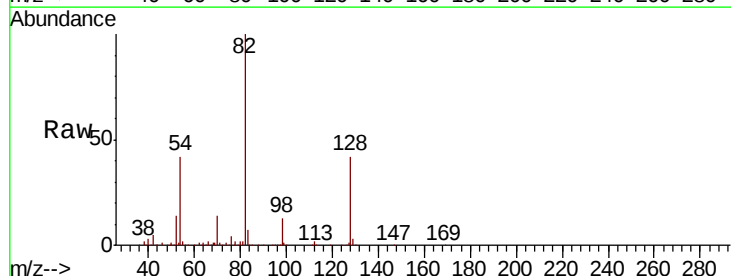
Tgt Ion: 82 Resp: 508577

Ion Ratio Lower Upper

82 100

95 0.1 5.8 8.6#

138 0.0 13.5 20.3#

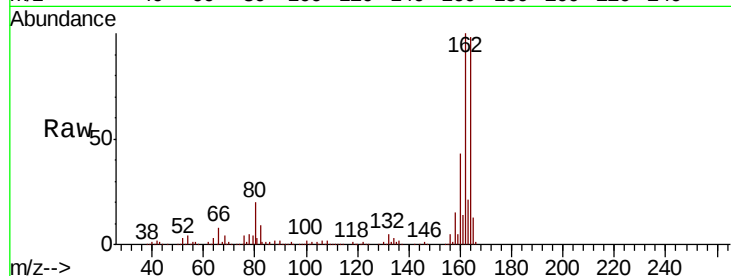




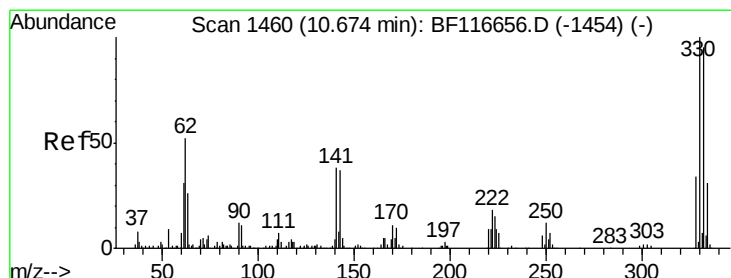
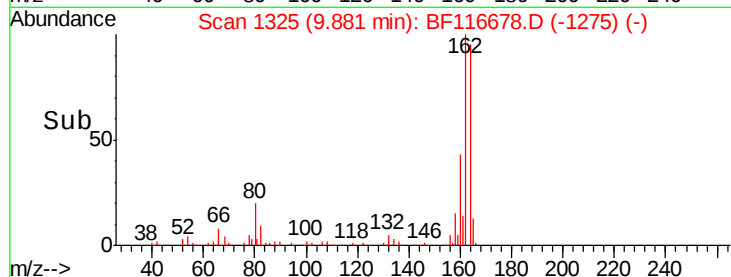
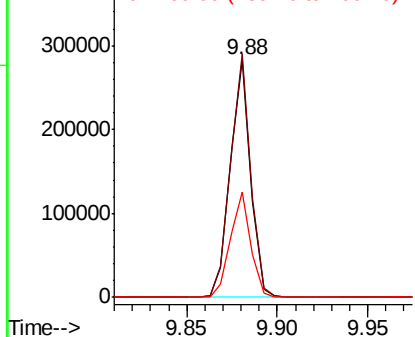
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: BF116678.D
 Acq: 31 Aug 2019 4:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.5	81.4	122.0
160	44.4	35.4	53.2

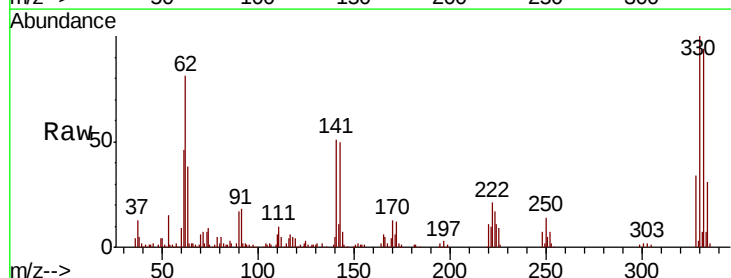


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

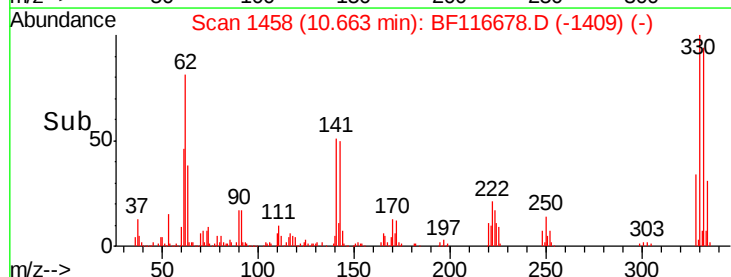
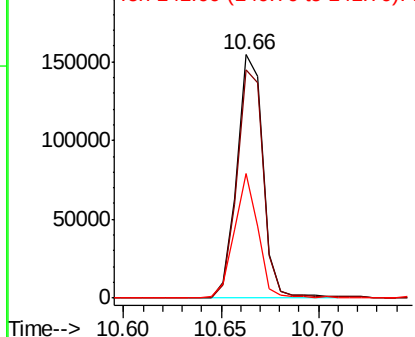


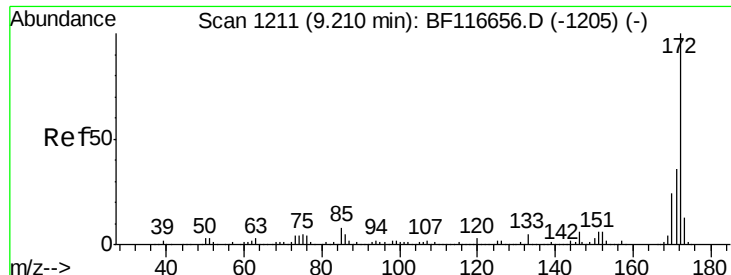
#42
 2,4,6-Tribromophenol
 Concen: 97.333 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.01 min
 Lab File: BF116678.D
 Acq: 31 Aug 2019 4:13

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.9	115.3
141	47.2	31.4	47.2#



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

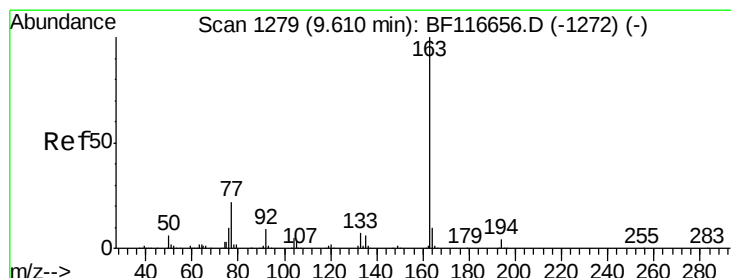
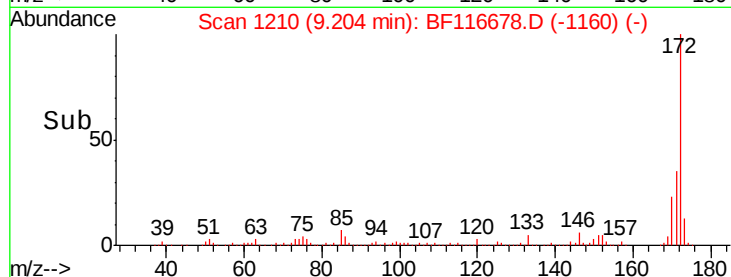
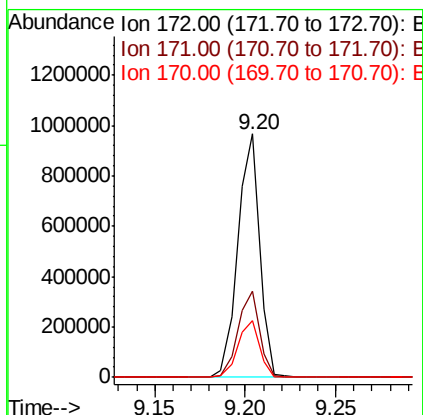
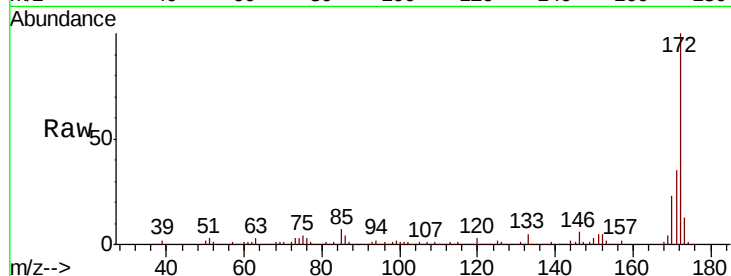




#45
2-Fluorobiphenyl
Concen: 61.703 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.00 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

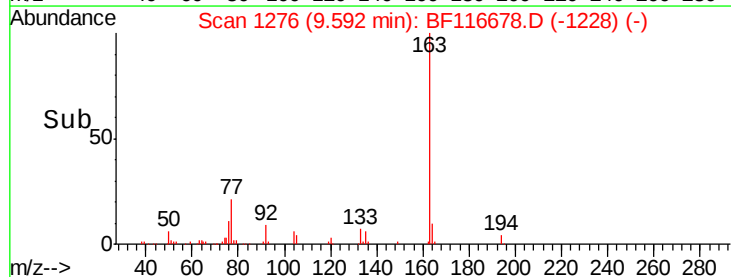
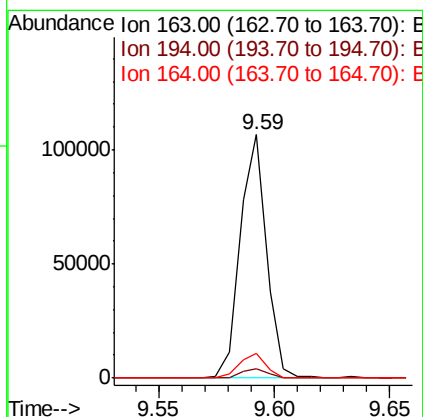
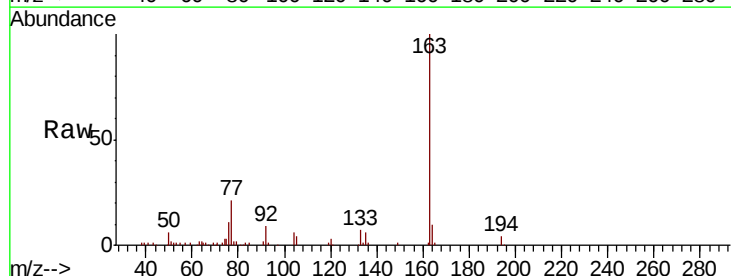
Instrument :
BNA_F
ClientSampleId :

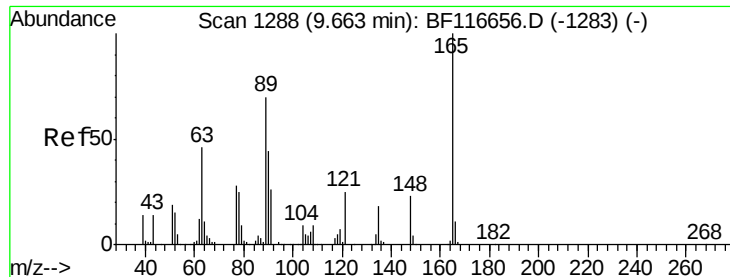
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.8	41.6
170	23.5	18.9	28.3



#50
Dimethylphthalate
Concen: 5.564 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.8	4.2
164	10.3	8.6	12.8





#51

2,6-Dinitrotoluene

Concen: 10.060 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.22 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

Instrument :

BNA_F

ClientSampleId :

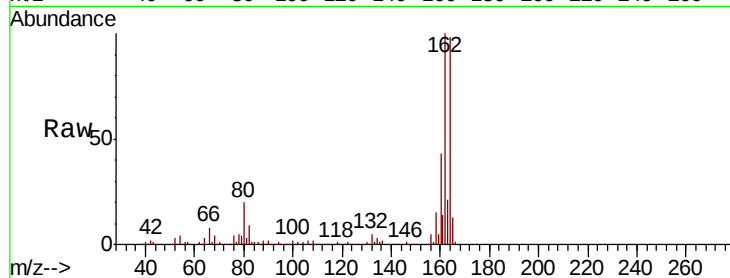
Tot Ion:165 Resp: 29351

Ion Ratio Lower Upper

165 100

63 1.2 47.3 70.9#

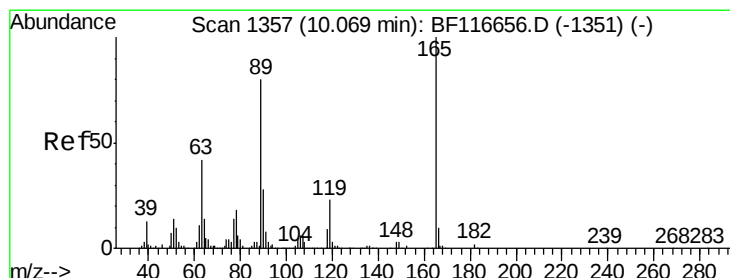
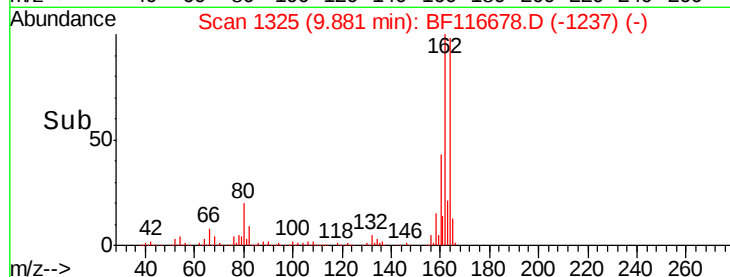
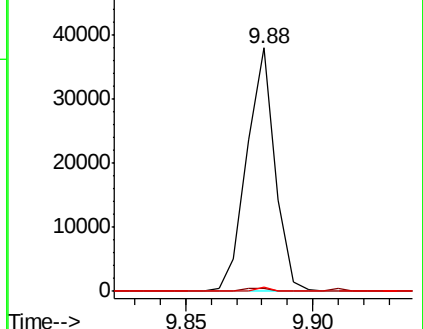
89 1.5 52.5 78.7#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#57

2,4-Dinitrotoluene

Concen: 8.227 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.19 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

Tgt Ion:165 Resp: 29351

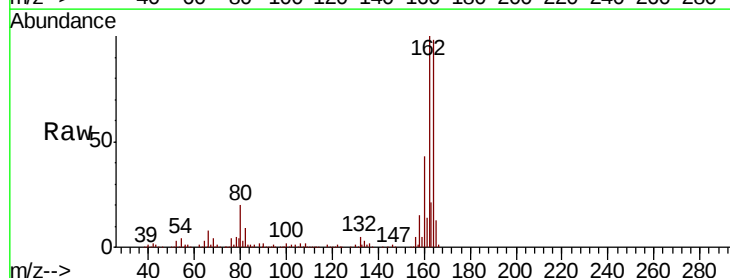
Ion Ratio Lower Upper

165 100

63 1.2 36.4 54.6#

89 1.5 62.6 94.0#

182 0.0 2.1 3.1#

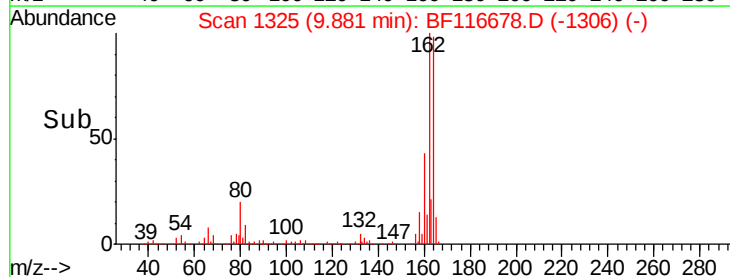
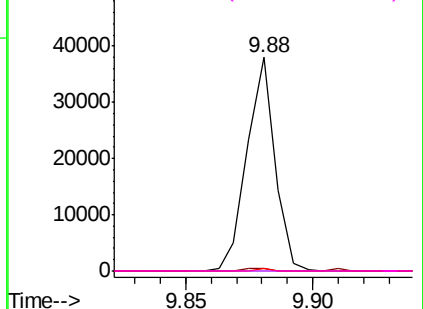


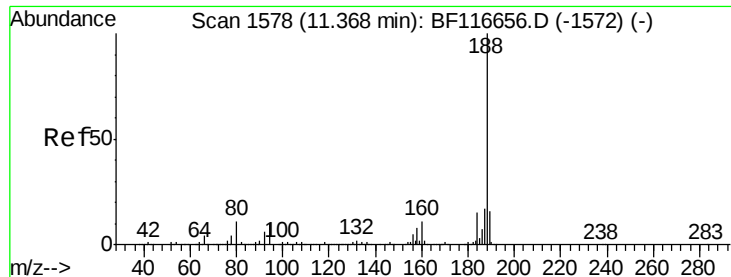
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

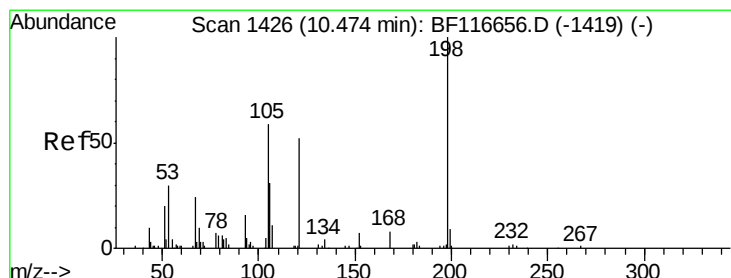
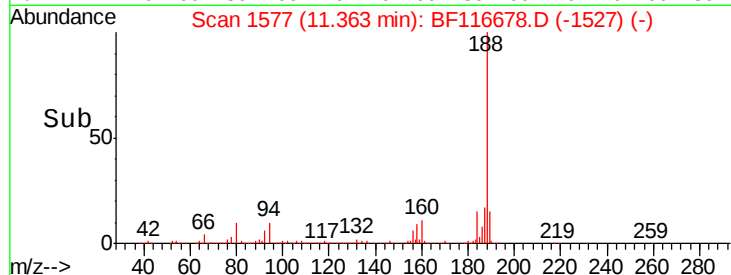
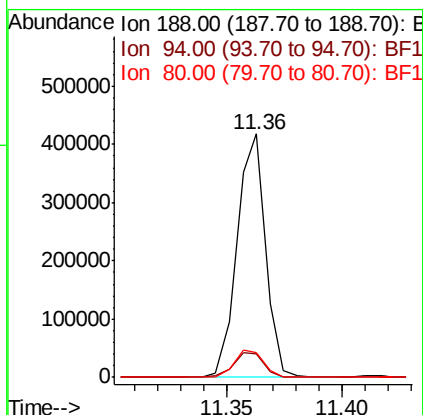
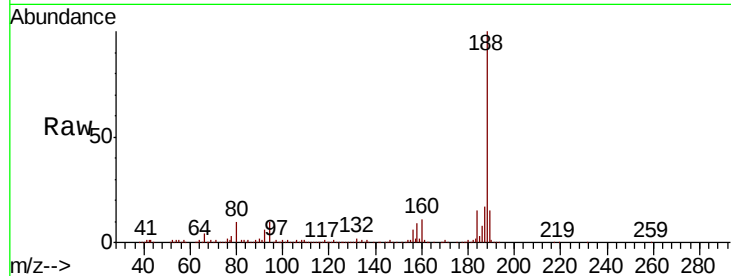




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

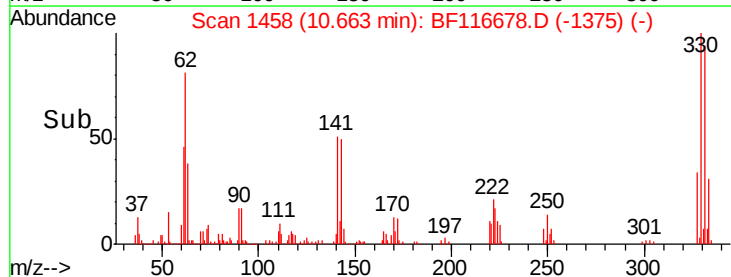
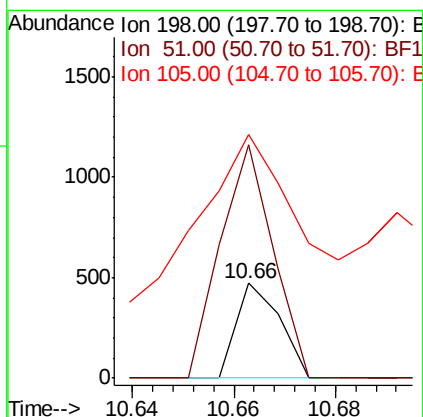
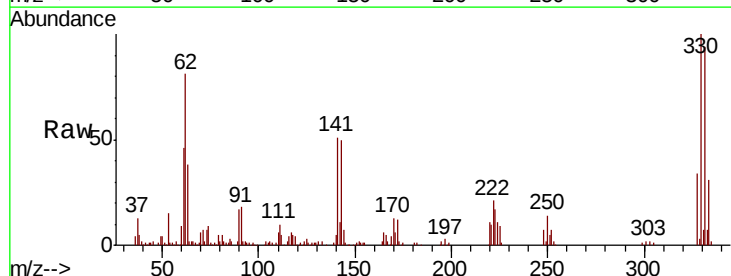
Instrument :
BNA_F
ClientSampled :

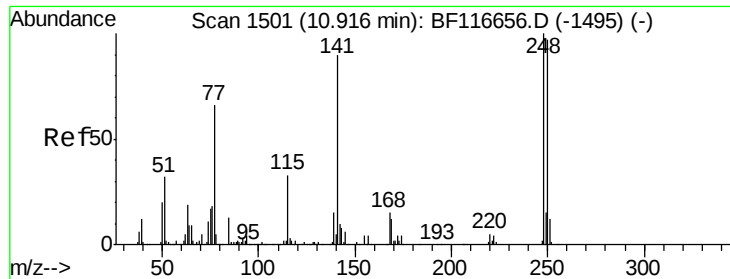
Tot Ion:188 Resp: 357695
Ion Ratio Lower Upper
188 100
94 9.9 7.3 10.9
80 10.3 8.4 12.6



#65
4,6-Dinitro-2-methylphenol
Concen: 7.631 ng
RT: 10.66 min Scan# 1458
Delta R.T. 0.19 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion:198 Resp: 281
Ion Ratio Lower Upper
198 100
51 245.9 18.4 58.4#
105 256.2 22.9 62.9#

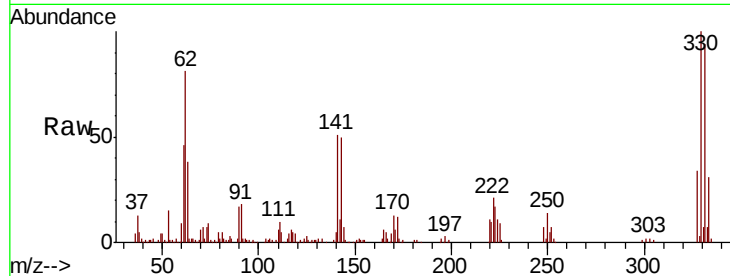




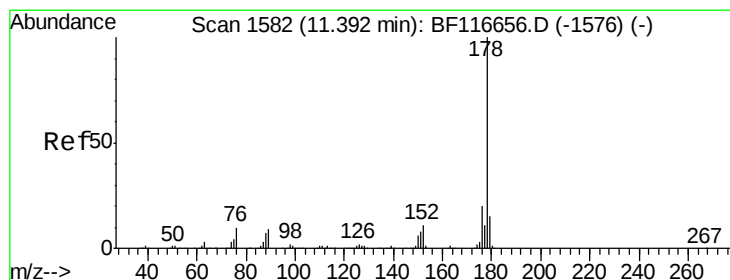
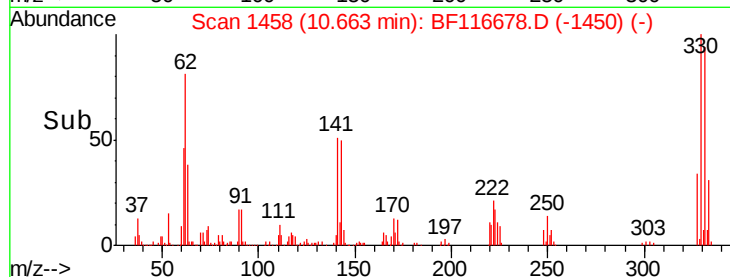
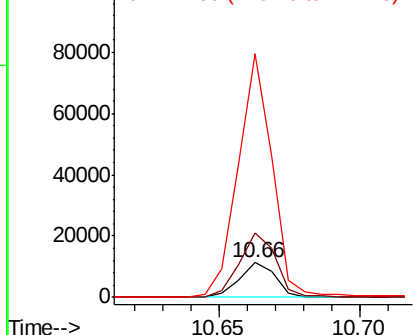
#67
4-Bromophenyl-phenylether
Concen: 2.731 ng
RT: 10.66 min Scan# 1458
Delta R.T. -0.25 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:248 Resp: 9924
Ion Ratio Lower Upper
248 100
250 185.0 77.8 116.8#
141 700.1 75.9 113.9#

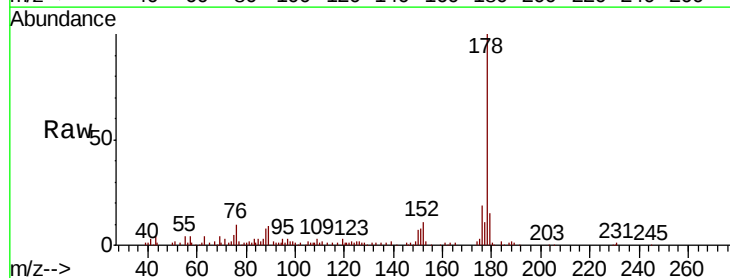


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

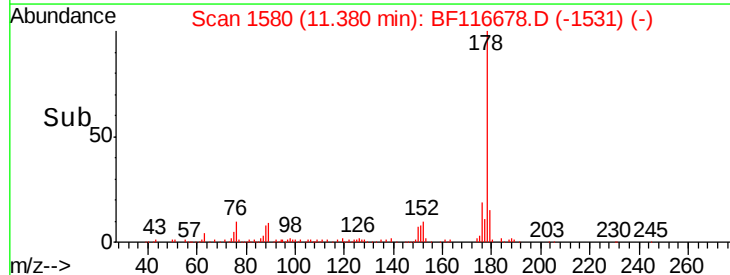
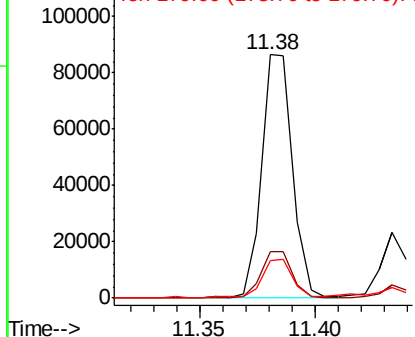


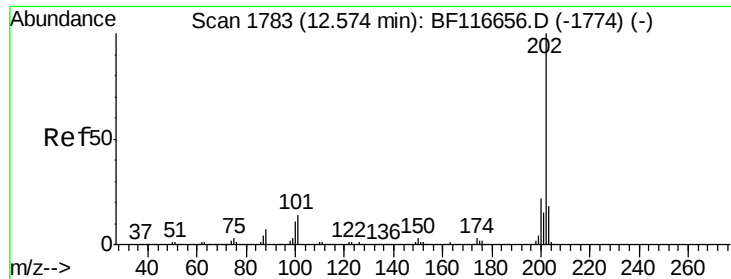
#71
Phenanthrene
Concen: 4.064 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion:178 Resp: 80929
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.2 12.2 18.2



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: 8.704 ng

RT: 12.57 min Scan# 1782

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

Instrument :

BNA_F

ClientSampled :

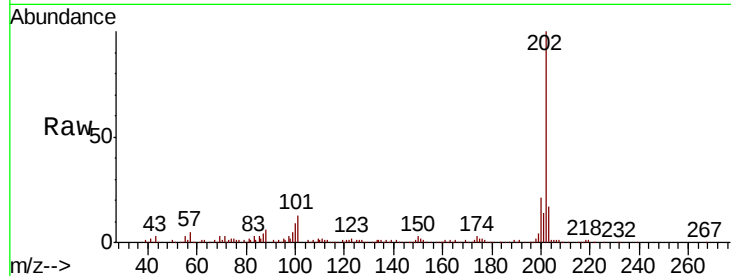
Tot Ion:202 Resp: 170322

Ion Ratio Lower Upper

202 100

101 12.8 0.0 31.3

203 16.9 0.0 37.6

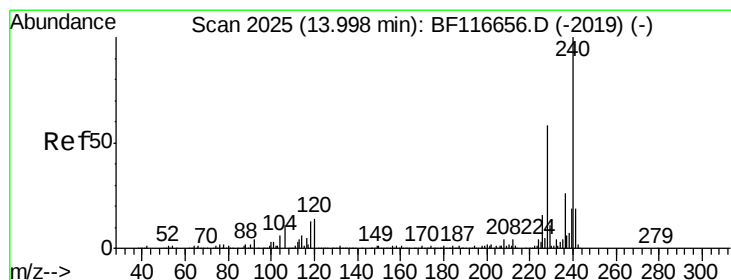
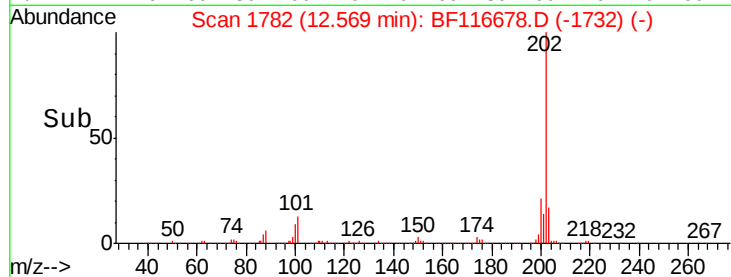
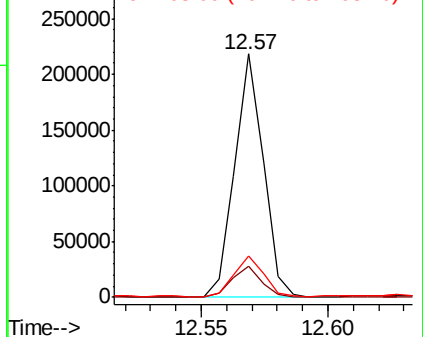


Abundance

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: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

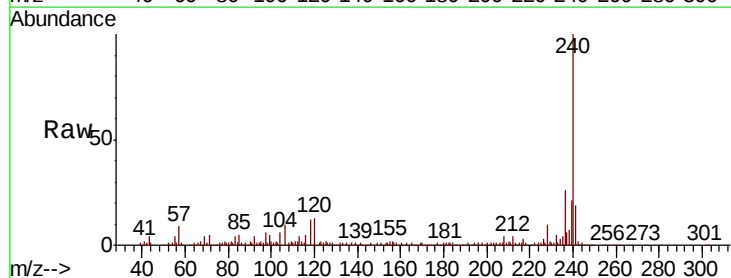
Tgt Ion:240 Resp: 216350

Ion Ratio Lower Upper

240 100

120 13.4 9.1 13.7

236 26.0 21.1 31.7

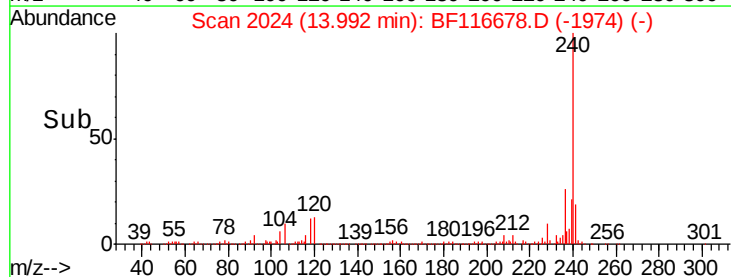
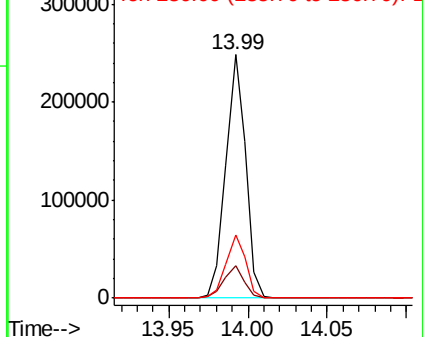


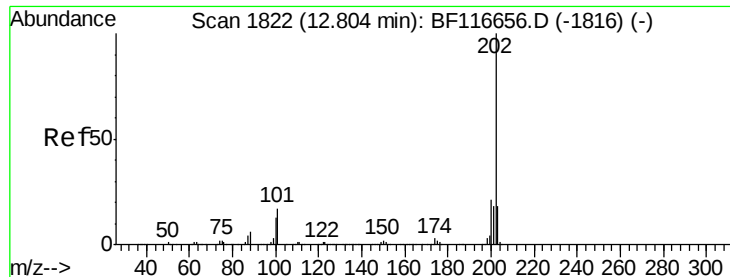
Abundance

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

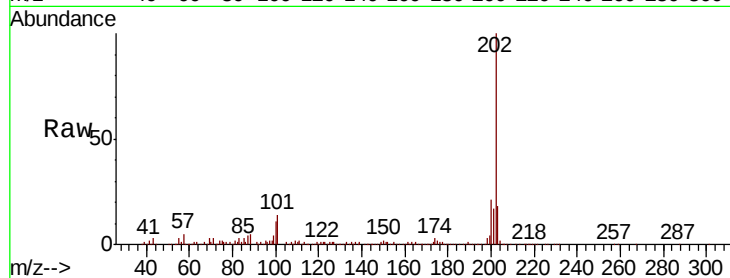




#78
Pvrene
Concen: 10.469 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.5	24.7
203	17.8	13.7	20.5

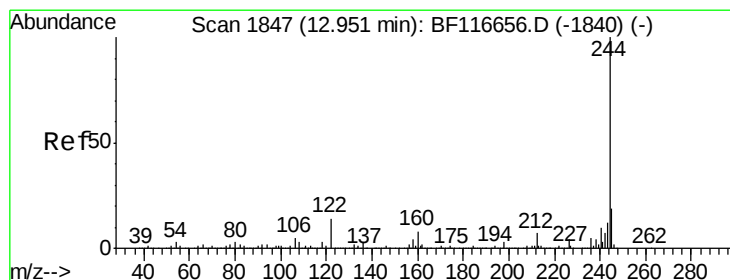
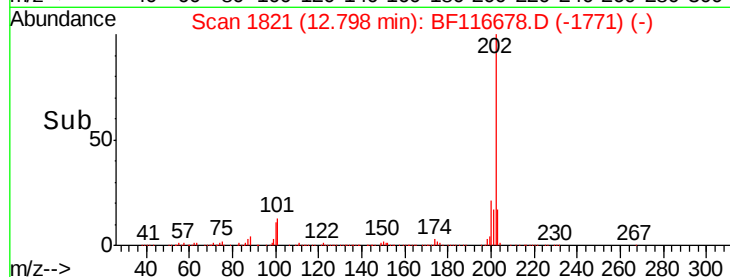
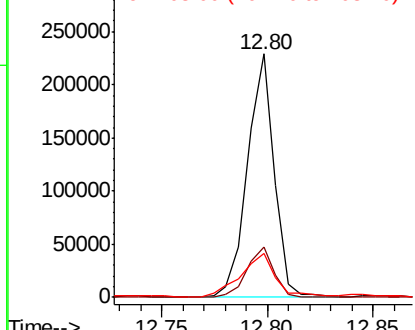


Abundance

Ion 202.00 (201.70 to 202.70): E

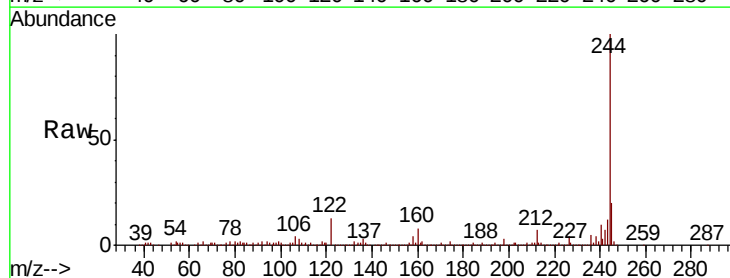
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 59.749 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.1	9.1
122	13.2	10.2	15.4

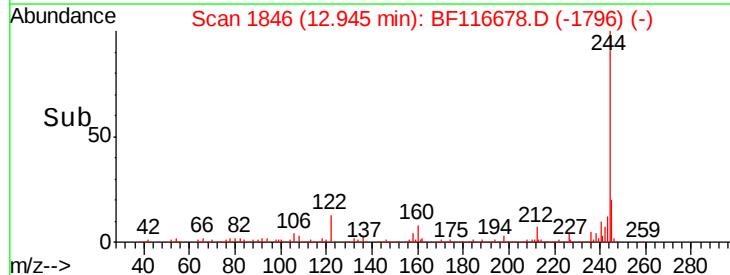
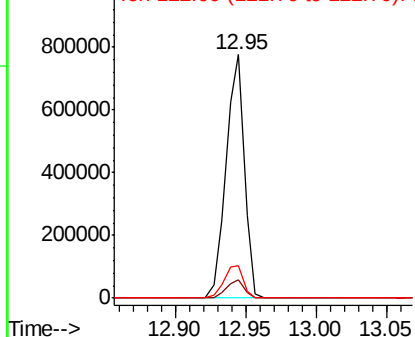


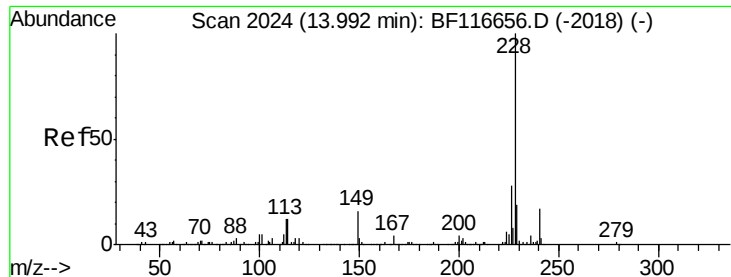
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 7.356 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

Instrument :

BNA_F

ClientSampleId :

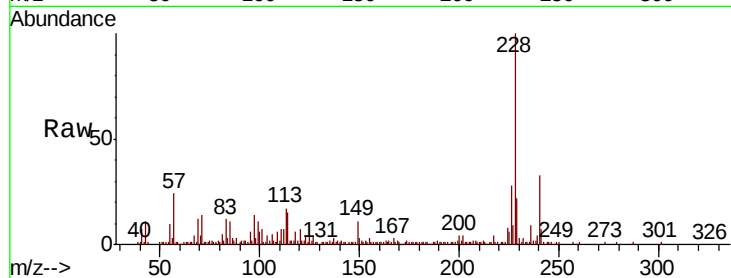
Tot Ion:228 Resp: 100726

Ion Ratio Lower Upper

228 100

226 27.9 22.0 33.0

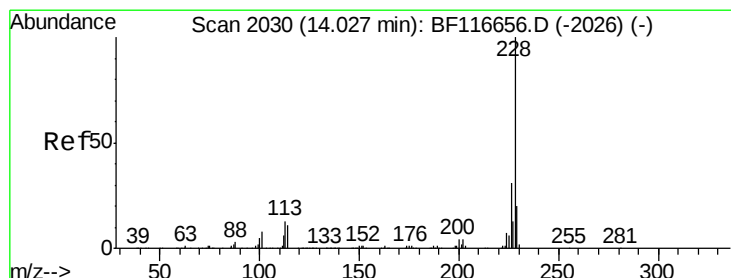
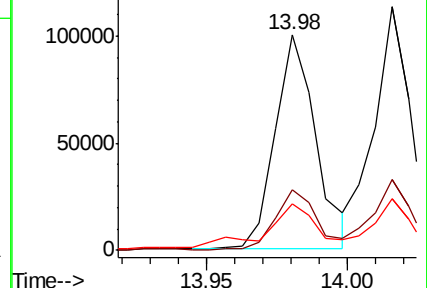
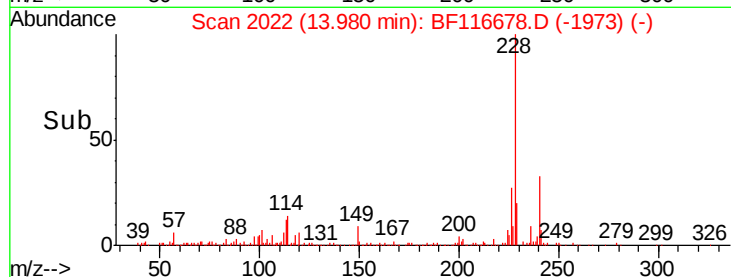
229 21.6 16.4 24.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 7.173 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

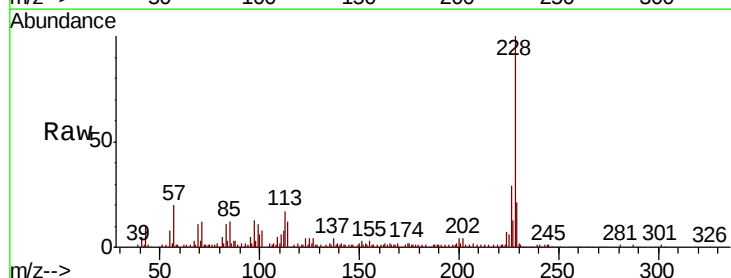
Tgt Ion:228 Resp: 101183

Ion Ratio Lower Upper

228 100

226 29.0 24.0 36.0

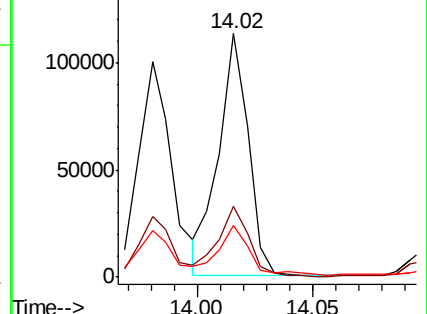
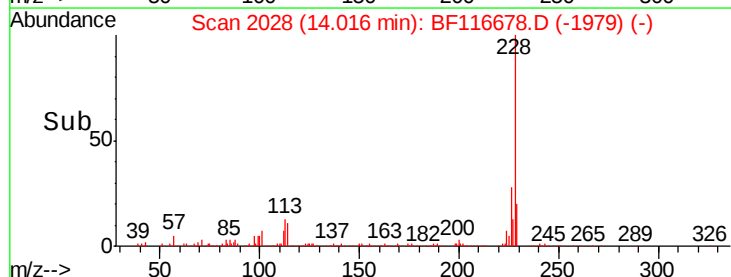
229 21.3 15.4 23.0

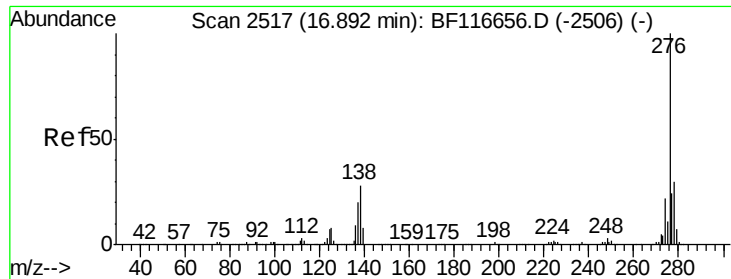


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

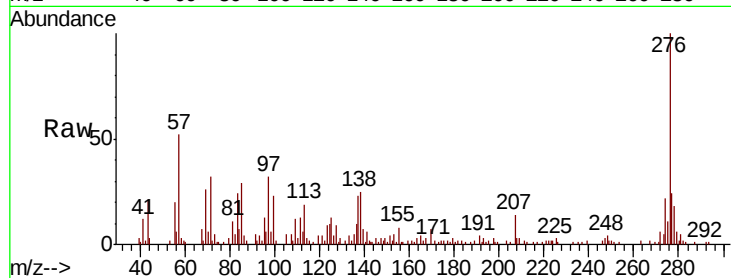




#86
Indeno(1,2,3-cd)pyrene
Concen: 4.962 ng
RT: 16.88 min Scan# 2515
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.6	19.4	29.2
277	25.8	20.5	30.7

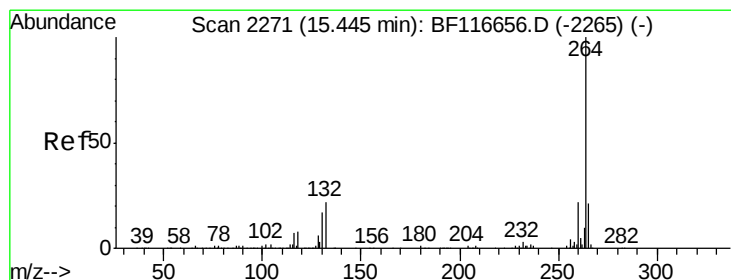
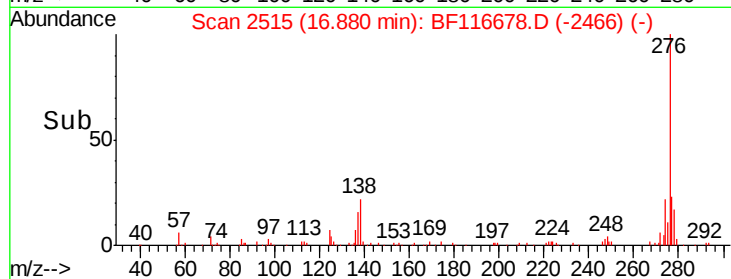
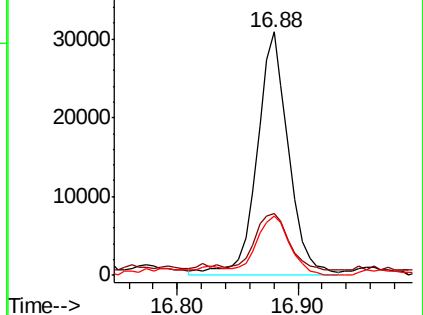


Abundance

Ion 276.00 (275.70 to 276.70): E

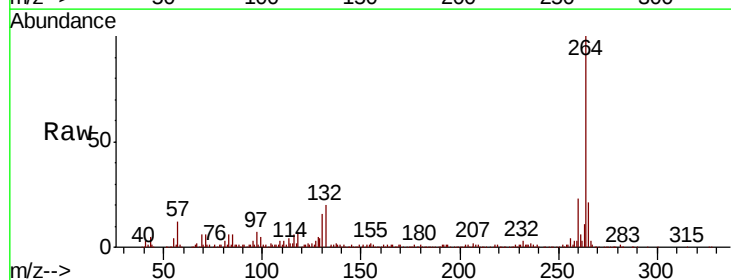
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.00 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.3	27.5
265	21.4	16.5	24.7

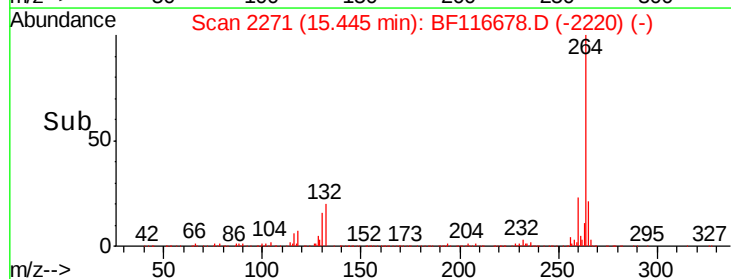
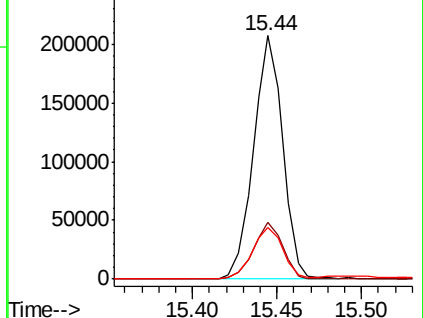


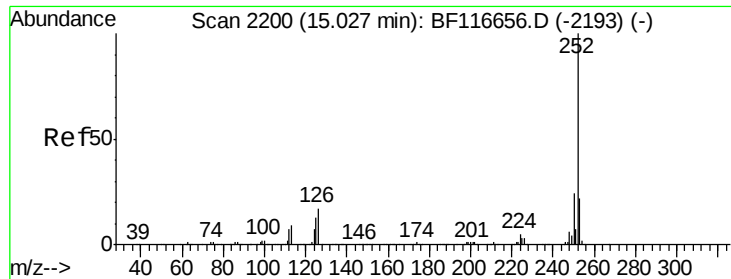
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 10.474 ng

RT: 15.02 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

Instrument :

BNA_F

ClientSampleId :

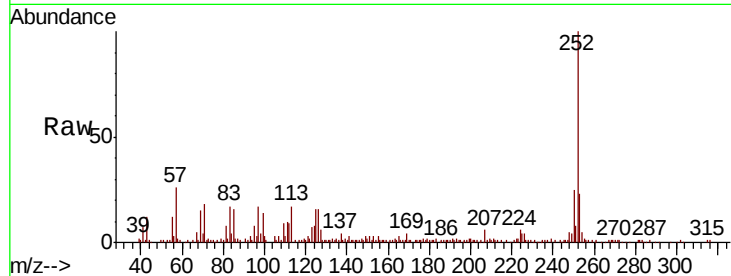
Tot Ion:252 Resp: 157955

Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

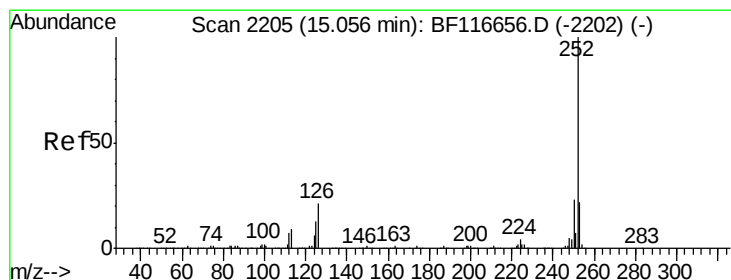
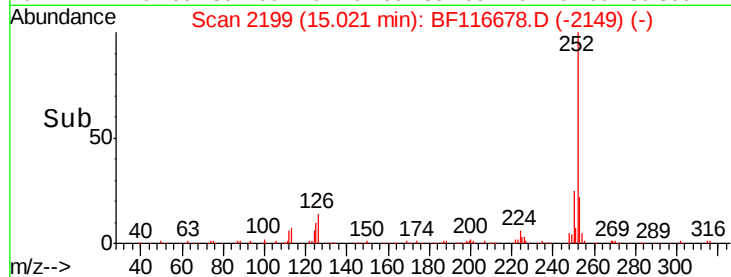
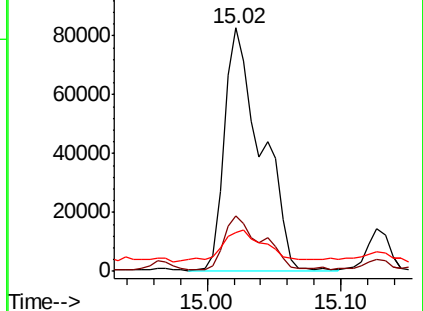
125 15.9 8.2 12.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 11.487 ng

RT: 15.02 min Scan# 2199

Delta R.T. -0.04 min

Lab File: BF116678.D

Acq: 31 Aug 2019 4:13

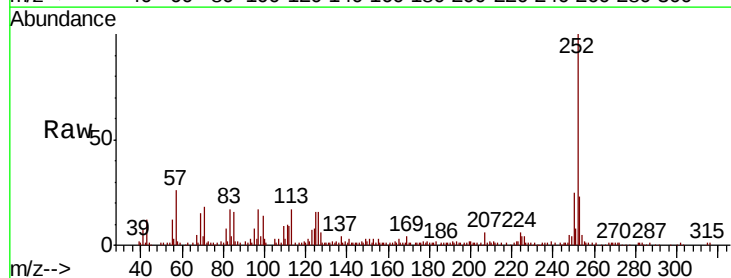
Tgt Ion:252 Resp: 157955

Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

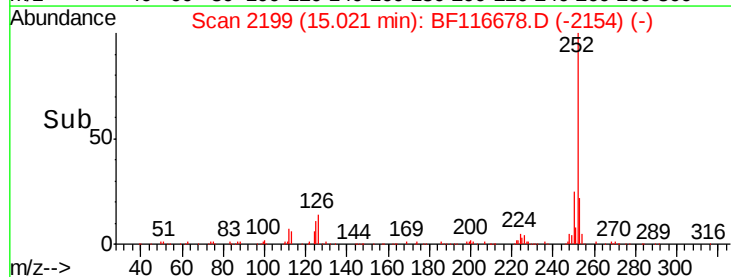
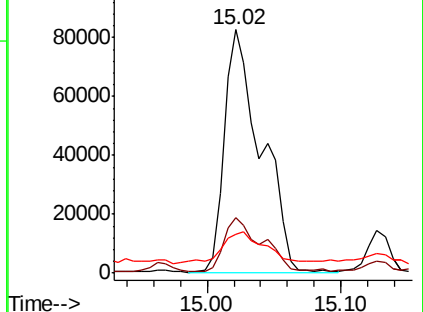
125 15.9 8.6 13.0#

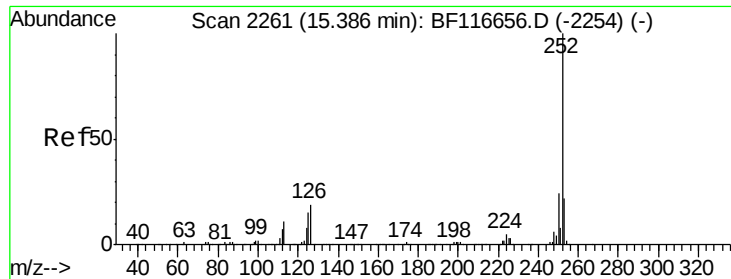


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

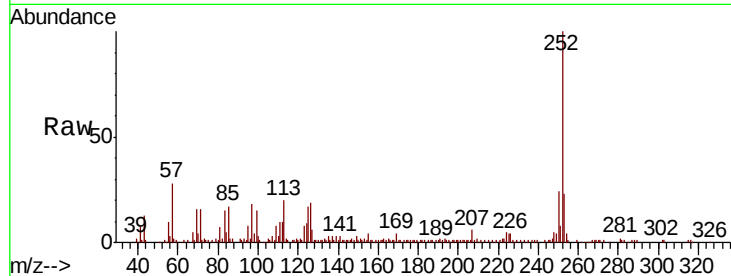




#90
Benzo(a)pyrene
Concen: 6.738 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	16.9	9.8	14.8

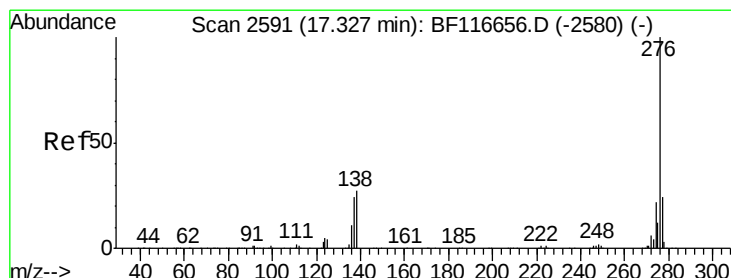
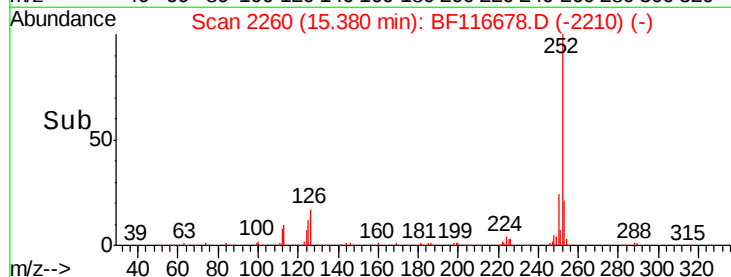
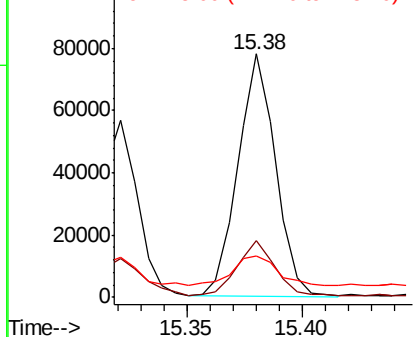


Abundance

Ion 252.00 (251.70 to 252.70): E

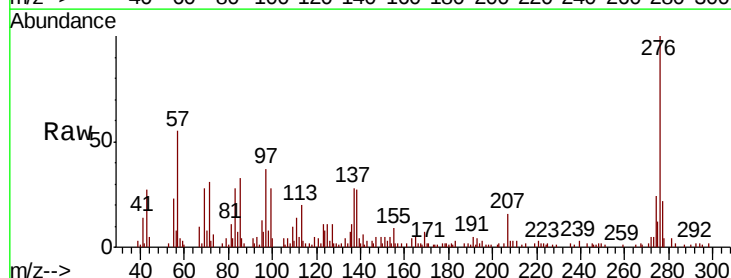
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 4.391 ng
RT: 17.32 min Scan# 2589
Delta R.T. -0.01 min
Lab File: BF116678.D
Acq: 31 Aug 2019 4:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.4	18.5	27.7
138	27.4	16.2	24.2



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

