

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
 Data File : BF114554.D
 Acq On : 24 May 2019 5:04
 Operator : JU/SJ
 Sample : K3008-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 24 07:23:09 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 23 03:49:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	174256	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	698693	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	331944	20.00	ng	-0.02
64) Phenanthrene-d10	11.34	188	605964	20.00	ng	-0.02
76) Chrysene-d12	13.99	240	378645	20.00	ng	-0.02
87) Perylene-d12	15.46	264	311661	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	267598	24.71	ng	-0.02
7) Phenol-d6	6.46	99	397787	31.06	ng	-0.03
23) Nitrobenzene-d5	7.37	82	226190	18.17	ng	-0.03
42) 2,4,6-Tribromophenol	10.64	330	65216	19.00	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	437627	19.94	ng	-0.02
79) Terphenyl-d14	12.92	244	386703	21.05	ng	-0.02

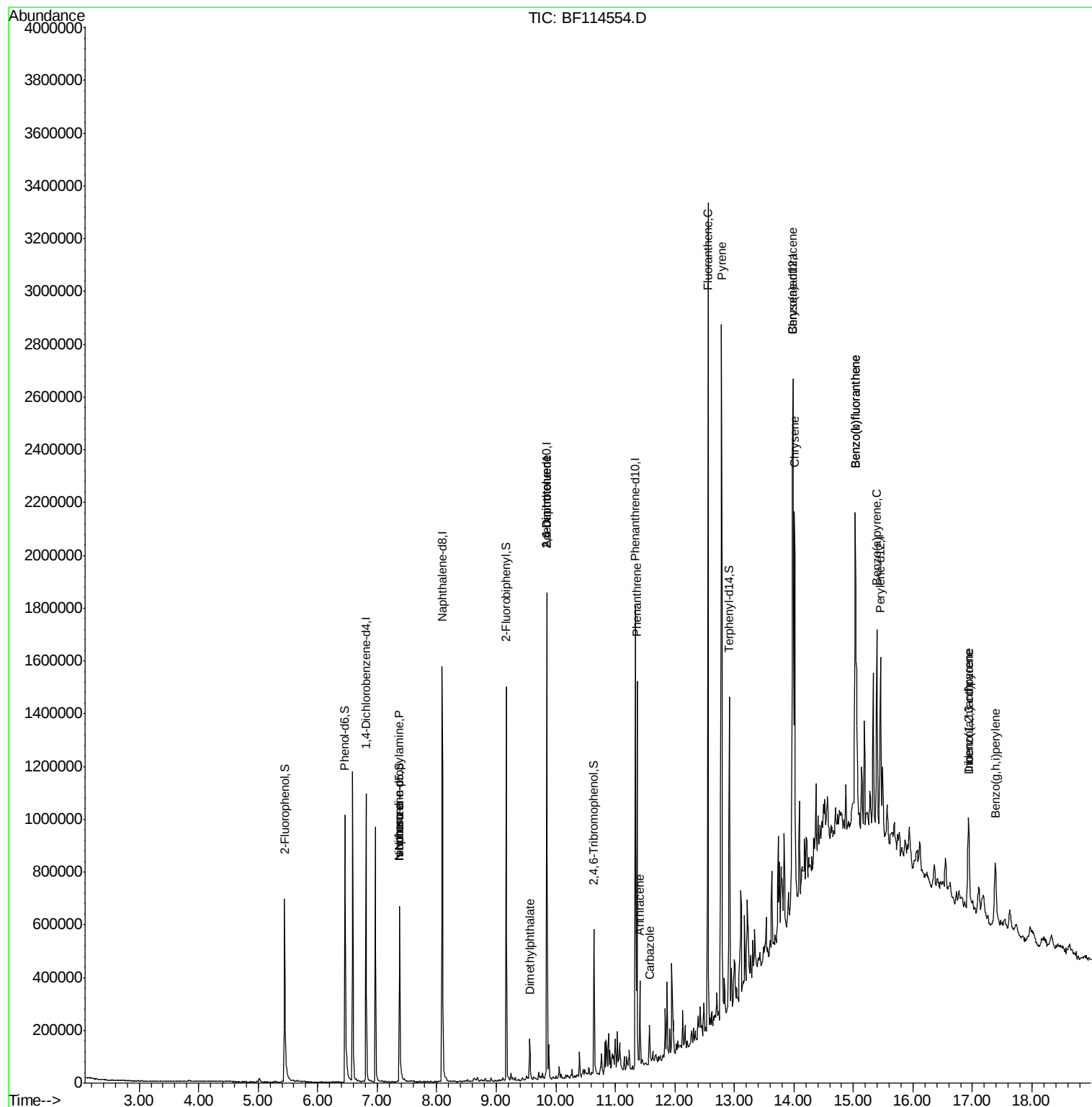
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.37	70	28796	3.547	ng	# 73
25) Isophorone	7.37	82	226189	9.796	ng	# 64
50) Dimethylphthalate	9.56	163	56081	2.301	ng	99
51) 2,6-Dinitrotoluene	9.85	165	42792	7.917	ng	# 22
57) 2,4-Dinitrotoluene	9.85	165	42792	5.833	ng	# 25
71) Phenanthrene	11.36	178	500637	16.982	ng	98
72) Anthracene	11.42	178	124089	4.191	ng	95
73) Carbazole	11.57	167	58281	2.064	ng	96
75) Fluoranthene	12.56	202	1251357	39.416	ng	99
78) Pyrene	12.79	202	1121675	36.824	ng	99
81) Benzo(a)anthracene	13.97	228	702237	28.674	ng	99
83) Chrysene	14.01	228	617838	25.735	ng	97
86) Indeno(1,2,3-cd)pyrene	16.94	276	206821	9.748	ng	94
88) Benzo(b)fluoranthene	15.03	252	907372	45.444	ng	97
89) Benzo(k)fluoranthene	15.03	252	907372	49.471	ng	98
90) Benzo(a)pyrene	15.40	252	411821	23.436	ng	98
91) Dibenzo(a,h)anthracene	16.93	278	59876	4.101	ng	# 89
92) Benzo(g,h,i)perylene	17.39	276	192080	13.126	ng	94

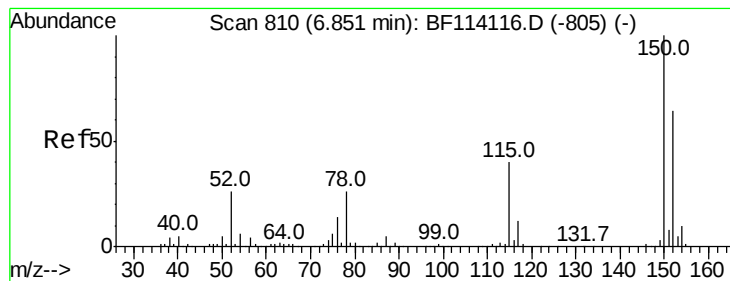
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.81 min Scan# 803

Delta R.T. -0.03 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampleId :

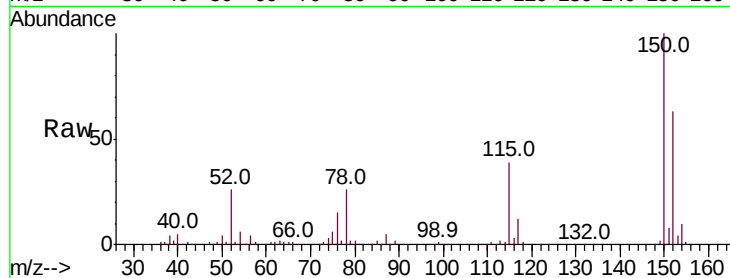
Tot Ion:152 Resp: 174256

Ion Ratio Lower Upper

152 100

150 158.4 124.3 186.5

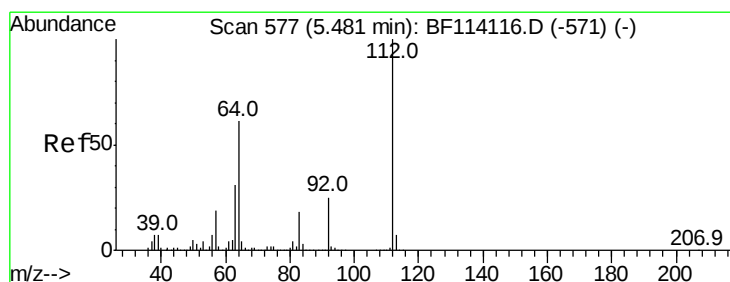
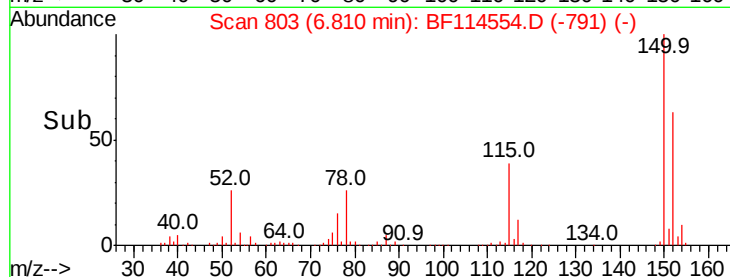
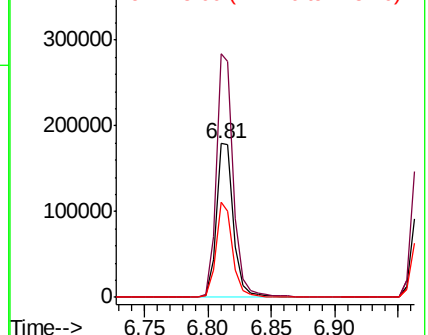
115 62.1 49.1 73.7



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: 24.713 ng

RT: 5.45 min Scan# 571

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

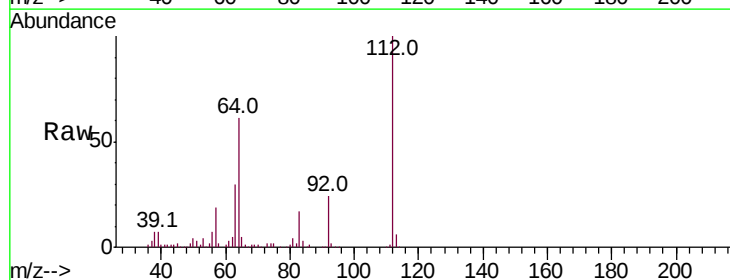
Tgt Ion:112 Resp: 267598

Ion Ratio Lower Upper

112 100

64 60.6 49.0 73.6

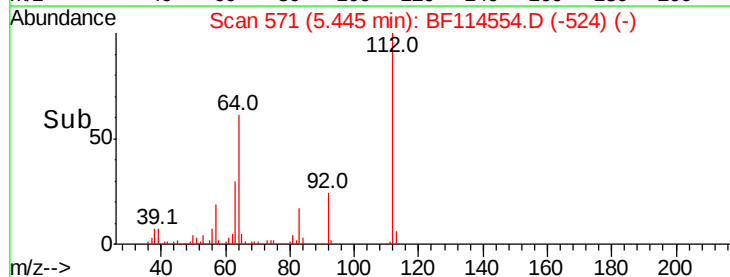
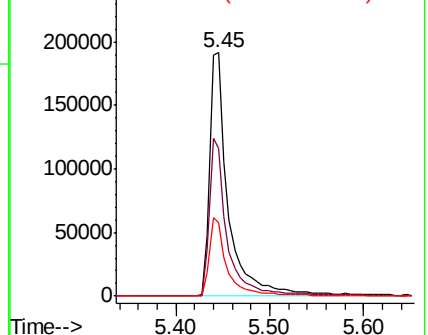
63 30.4 24.6 37.0



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: 31.060 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampleId :

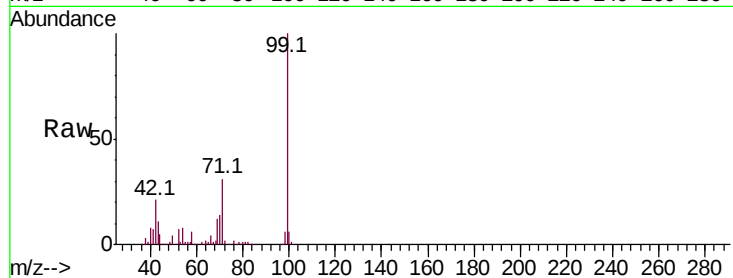
Tot Ion: 99 Resp: 397787

Ion Ratio Lower Upper

99 100

42 21.1 17.9 26.9

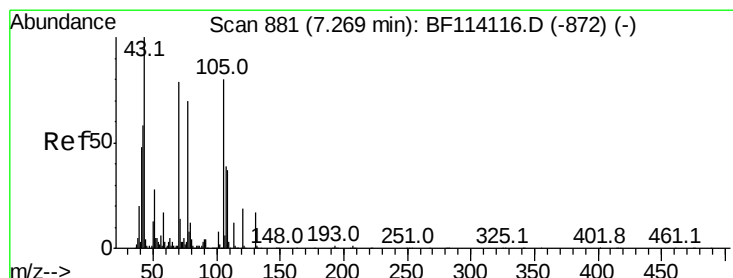
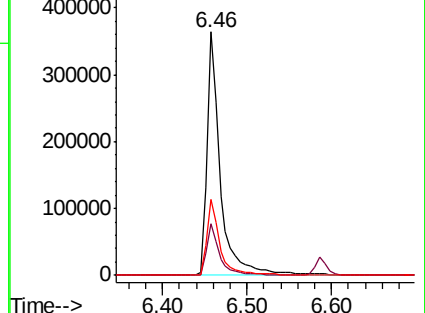
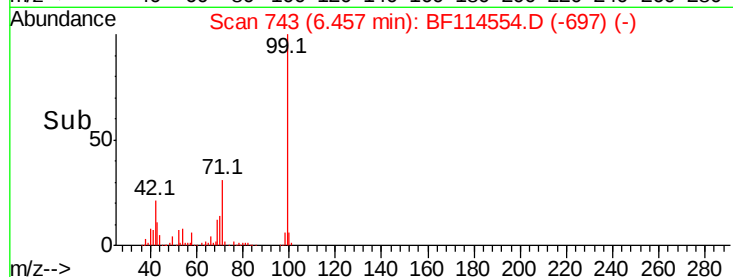
71 31.3 26.2 39.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.547 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.12 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Tgt Ion: 70 Resp: 28796

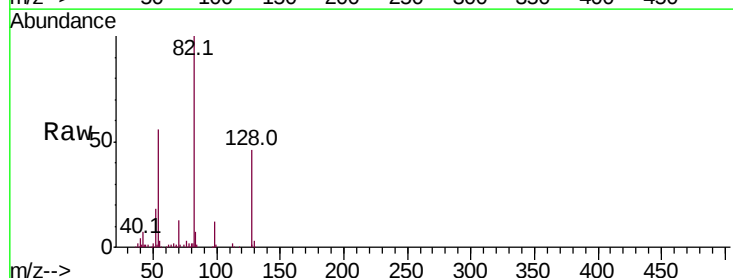
Ion Ratio Lower Upper

70 100

42 54.0 58.6 87.8#

101 0.0 7.8 11.8#

130 2.1 17.1 25.7#

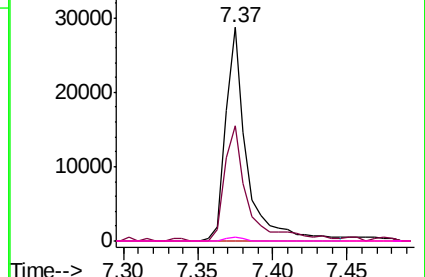
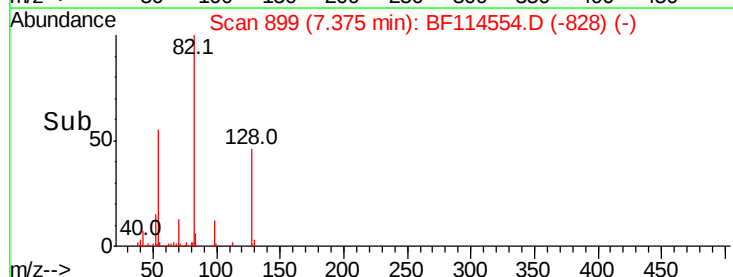


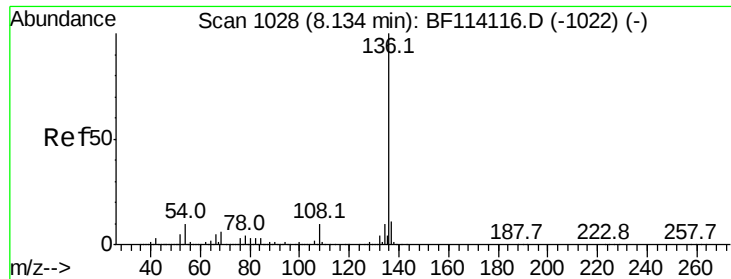
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

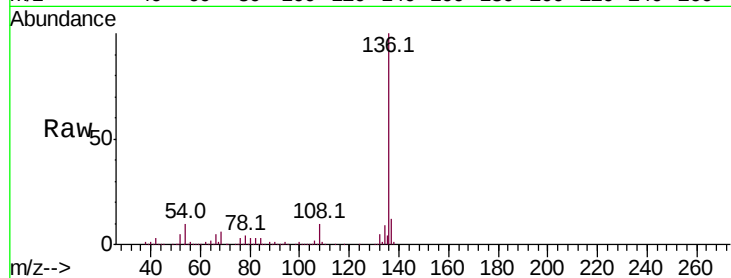




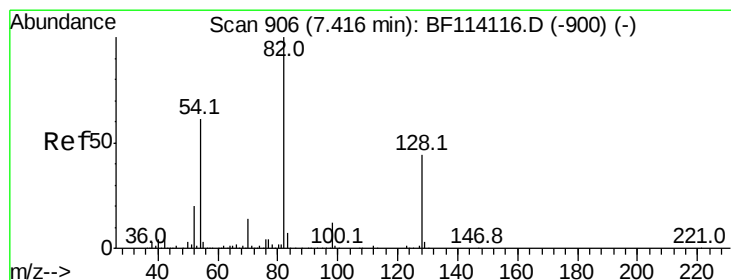
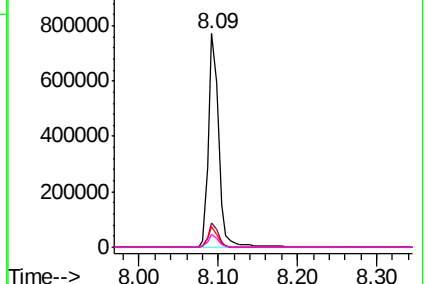
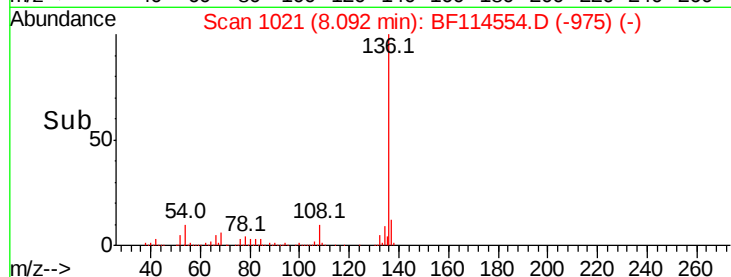
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.03 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp: 698693
Ion Ratio	Lower Upper
136 100	
137 11.7	8.8 13.2
54 9.7	7.8 11.8
68 6.2	5.1 7.7

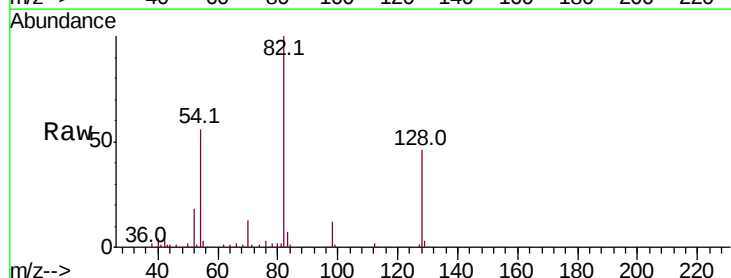


Abundance Ion 136.00 (135.70 to 136.70): E
1200000
Ion 137.00 (136.70 to 137.70): E
1000000
Ion 54.00 (53.70 to 54.70): BF1
800000
Ion 68.00 (67.70 to 68.70): BF1
600000
400000
200000
0

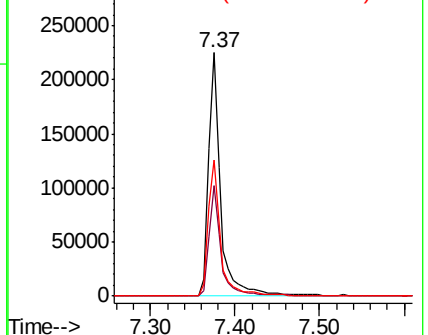
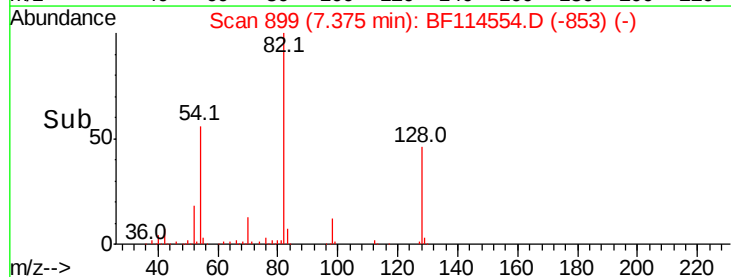


#23
Nitrobenzene-d5
Concen: 18.168 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.03 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

Tgt Ion	82	Resp: Lower	226190 Upper
	Ratio 100		
128	45.5	35.5	53.3
54	55.9	48.5	72.7



Abundance Ion 82.00 (81.70 to 82.70): BF1
300000
Ion 128.00 (127.70 to 128.70): E
250000
Ion 54.00 (53.70 to 54.70): BF1
200000
150000
100000
50000
0





#25

Isophorone

Concen: 9.796 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.29 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampleId :

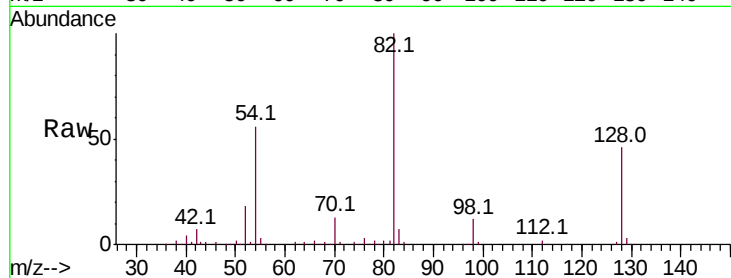
Tot Ion: 82 Resp: 226189

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

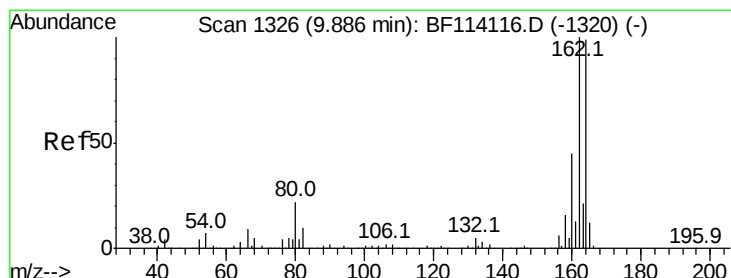
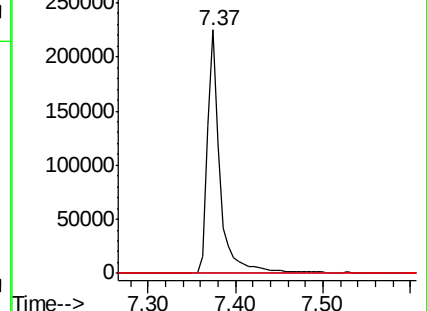
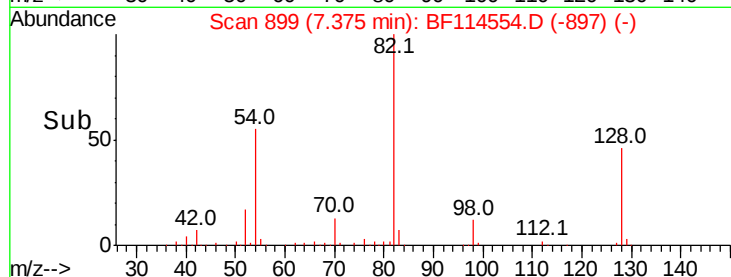
138 0.0 14.8 22.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

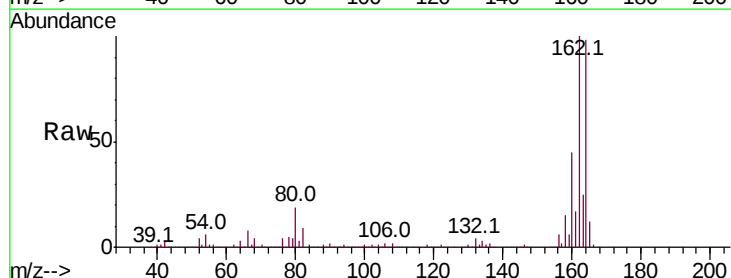
Tgt Ion: 164 Resp: 331944

Ion Ratio Lower Upper

164 100

162 102.4 80.6 120.8

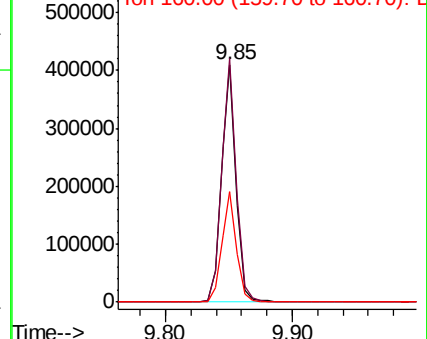
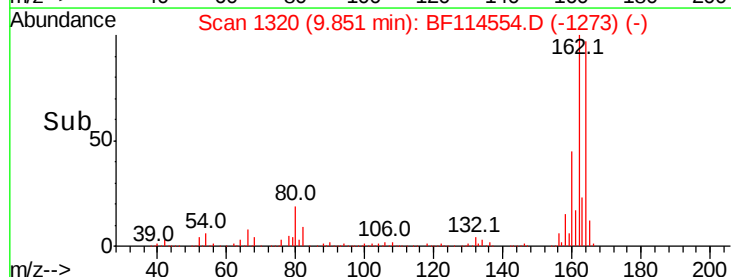
160 46.3 36.5 54.7

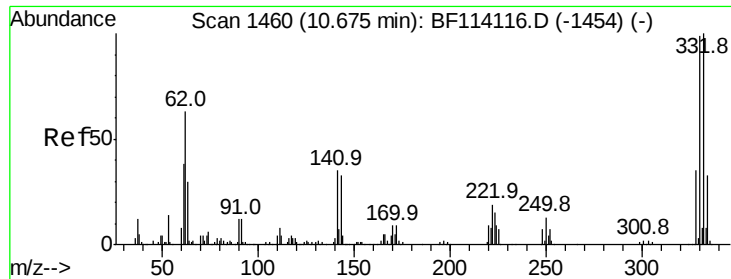


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

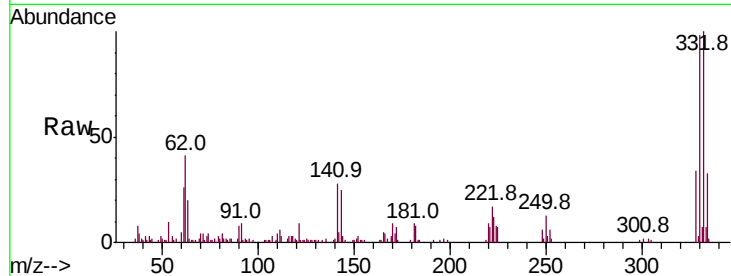




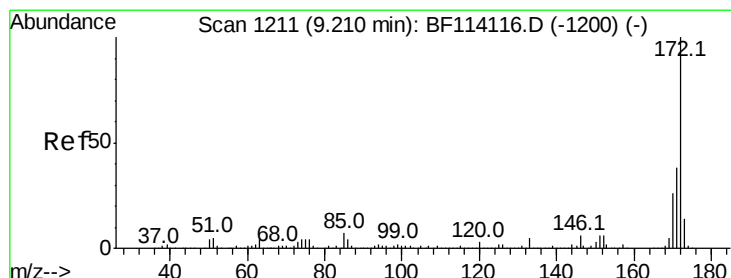
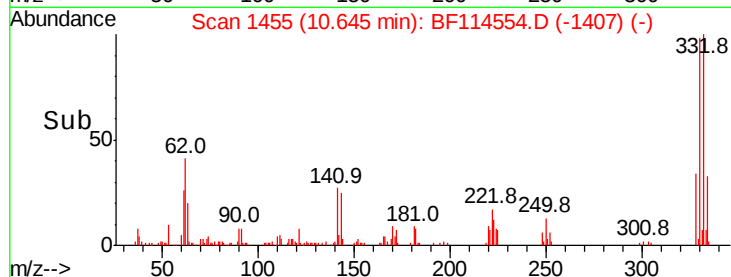
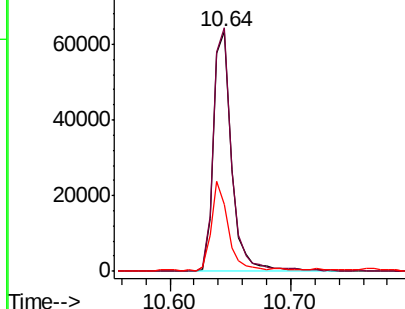
#42
 2,4,6-Tribromophenol
 Concen: 19.004 ng
 RT: 10.64 min Scan# 1455
 Delta R.T. -0.02 min
 Lab File: BF114554.D
 Acq: 24 May 2019 5:04

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 65216
 Ion Ratio Lower Upper
 330 100
 332 101.4 81.4 122.2
 141 35.2 26.6 40.0

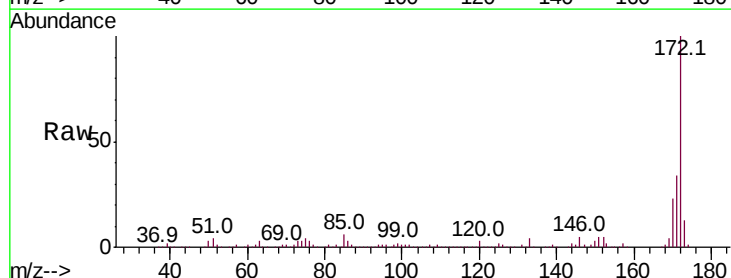


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

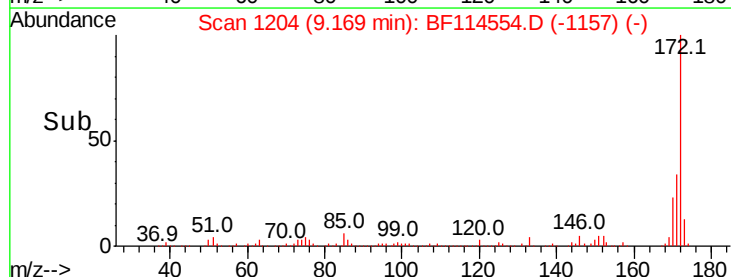
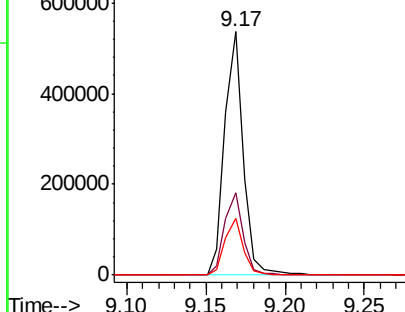


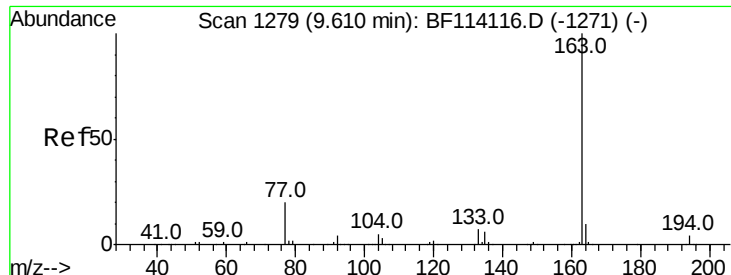
#45
 2-Fluorobiphenyl
 Concen: 19.943 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF114554.D
 Acq: 24 May 2019 5:04

Tgt Ion:172 Resp: 437627
 Ion Ratio Lower Upper
 172 100
 171 33.7 30.7 46.1
 170 23.1 20.5 30.7



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

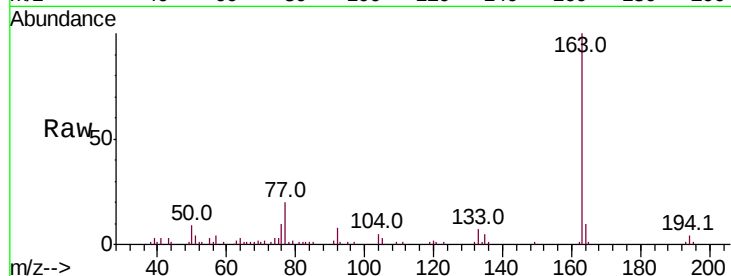




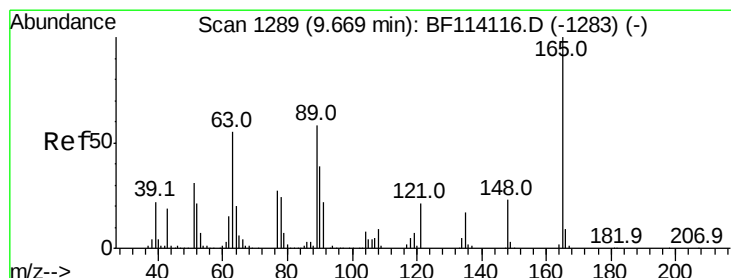
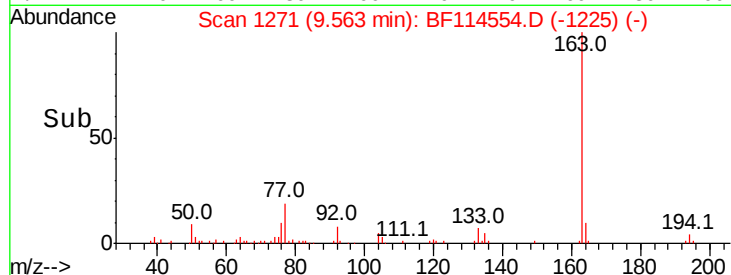
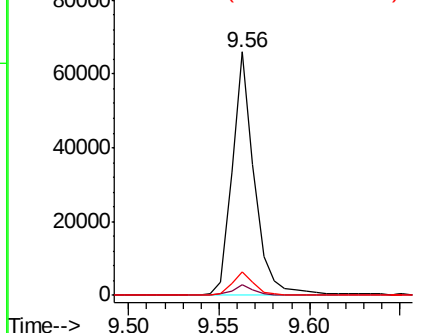
#50
Dimethylphthalate
Concen: 2.301 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.03 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

Instrument :
BNA_F
ClientSampled :

Tot Ion:163 Resp: 56081
Ion Ratio Lower Upper
163 100
194 4.3 3.4 5.0
164 9.7 8.2 12.2

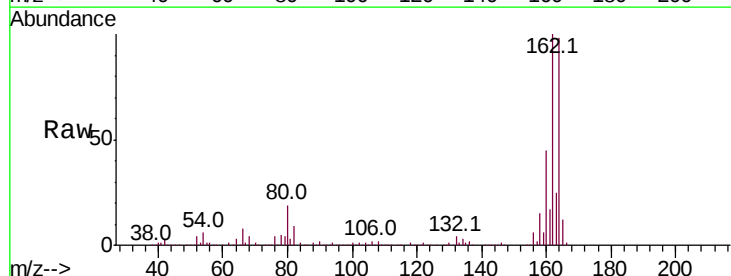


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

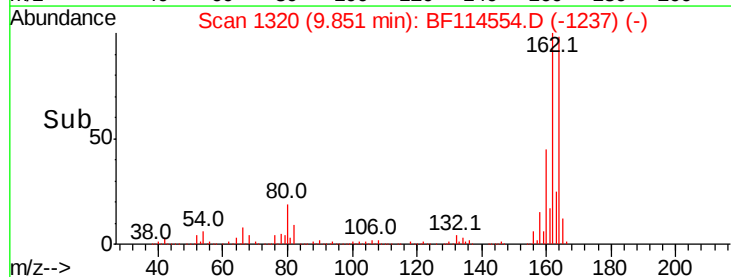
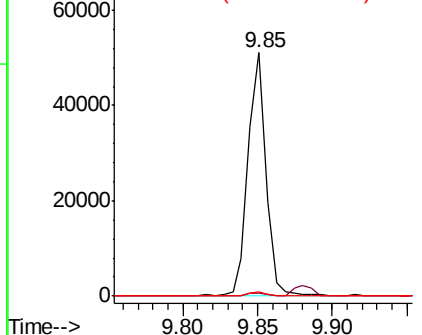


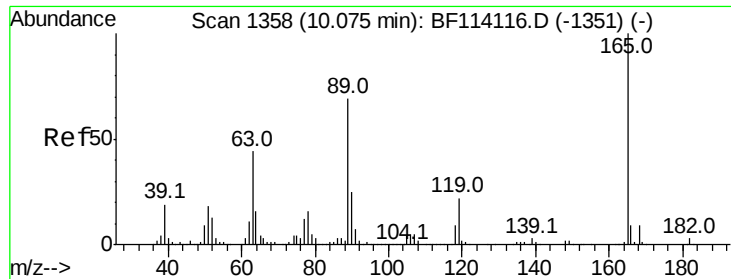
#51
2,6-Dinitrotoluene
Concen: 7.917 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.19 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

Tgt Ion:165 Resp: 42792
Ion Ratio Lower Upper
165 100
63 1.2 50.2 75.4#
89 1.6 46.6 69.8#



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

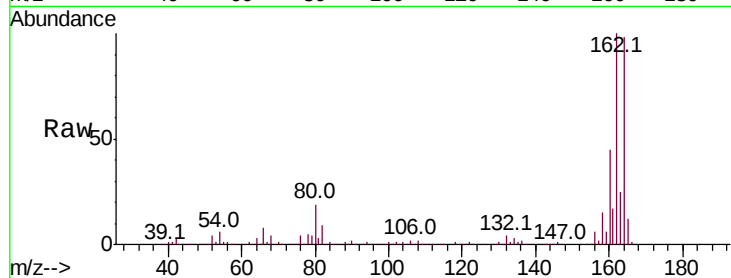




#57
 2,4-Dinitrotoluene
 Concen: 5.833 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.22 min
 Lab File: BF114554.D
 Acq: 24 May 2019 5:04

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	35.5	53.3#
89	1.6	55.2	82.8#
182	0.0	2.2	3.2#



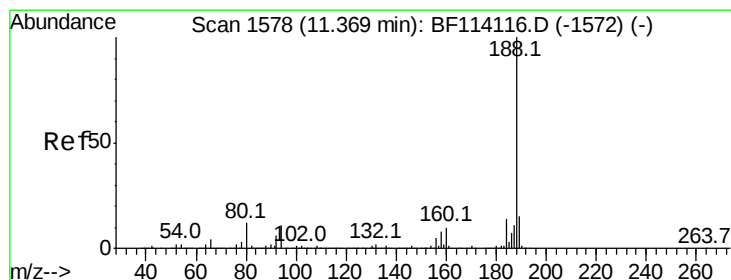
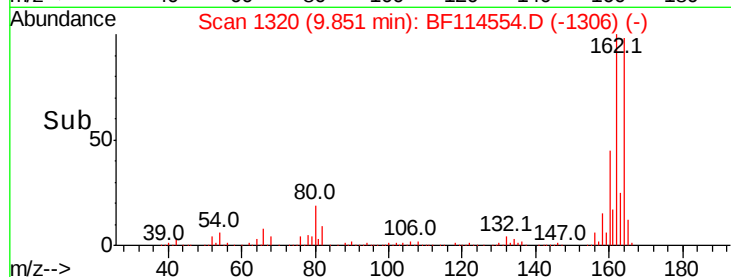
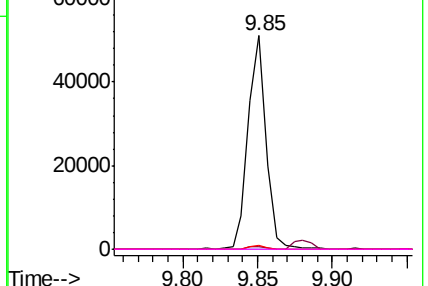
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

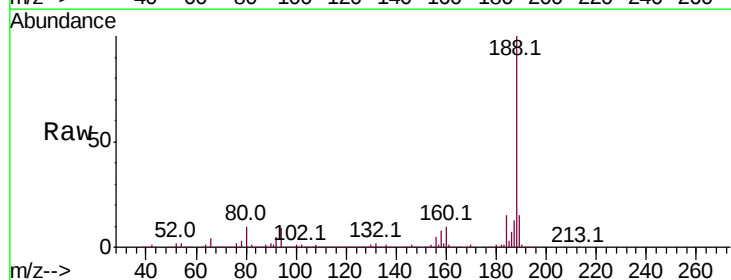
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.02 min
 Lab File: BF114554.D
 Acq: 24 May 2019 5:04

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.4	12.6
80	10.3	9.2	13.8

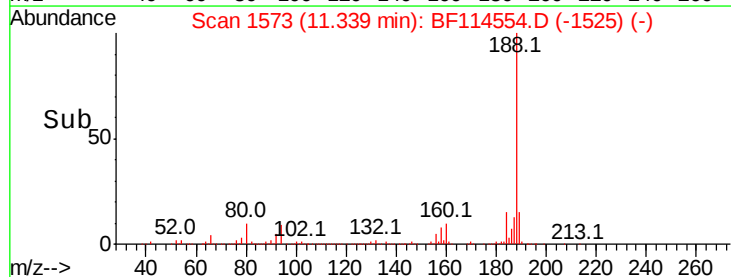
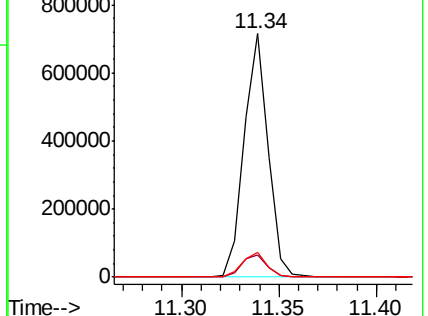


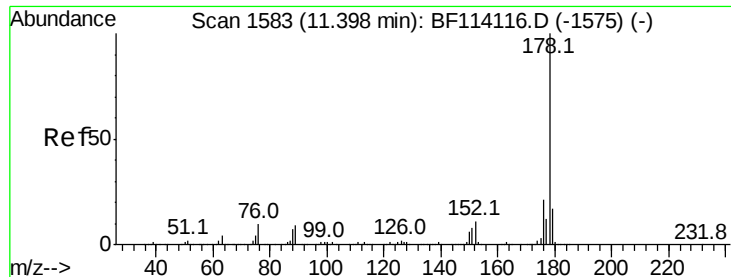
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

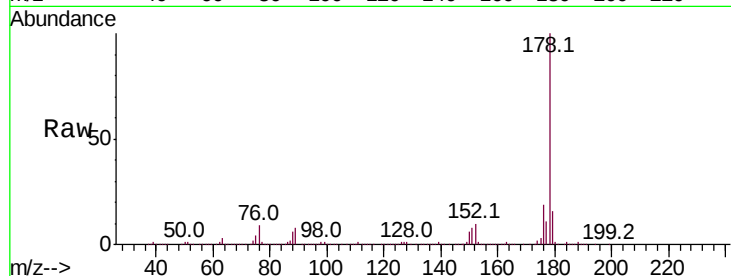




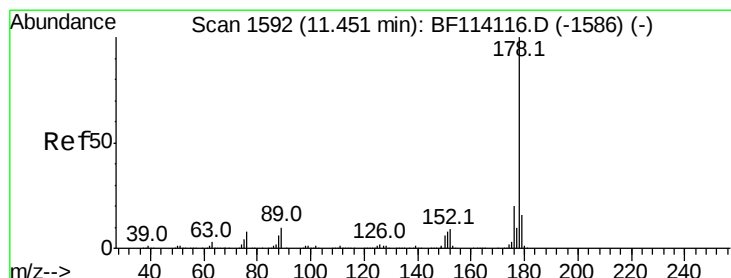
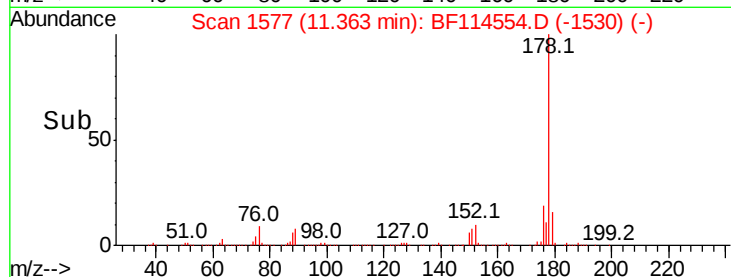
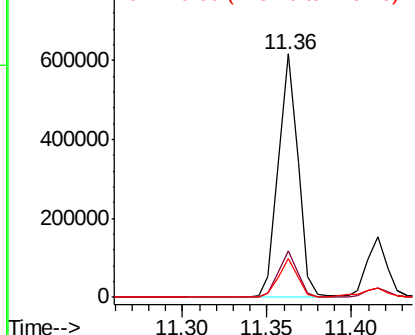
#71
Phenanthrene
Concen: 16.982 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.02 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 500637
Ion Ratio Lower Upper
178 100
176 19.1 16.4 24.6
179 15.9 13.2 19.8

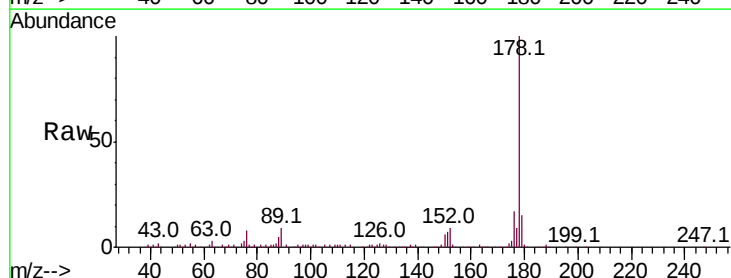


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

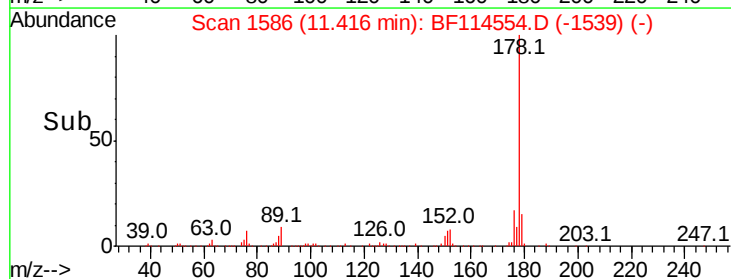
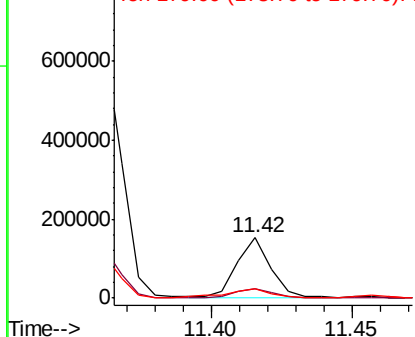


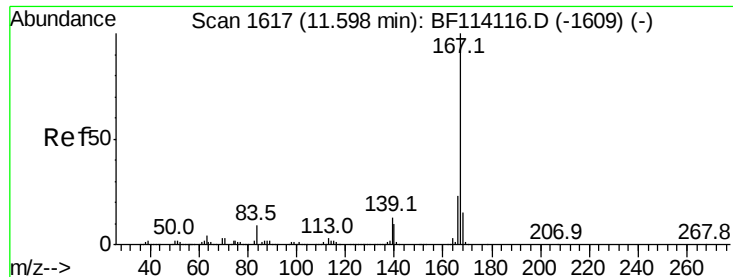
#72
Anthracene
Concen: 4.191 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.02 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

Tgt Ion:178 Resp: 124089
Ion Ratio Lower Upper
178 100
176 16.7 15.8 23.8
179 14.9 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: 2.064 ng

RT: 11.57 min Scan# 1613

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampleId :

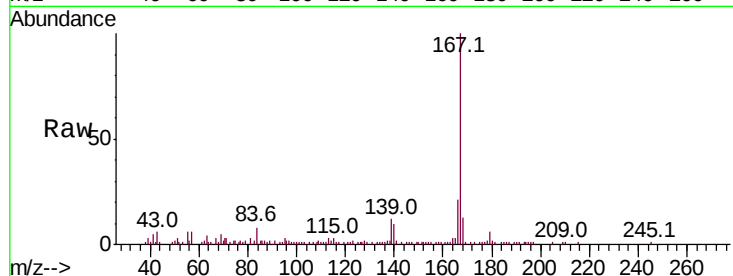
Tot Ion:167 Resp: 58281

Ion Ratio Lower Upper

167 100

166 20.7 18.2 27.2

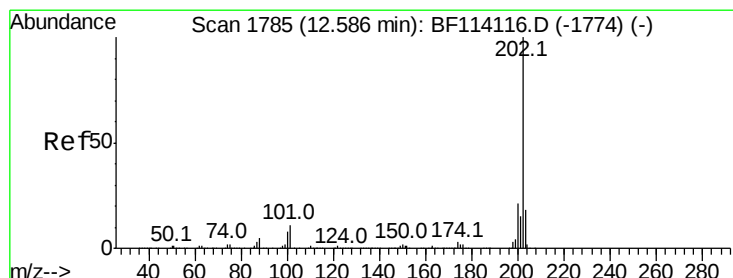
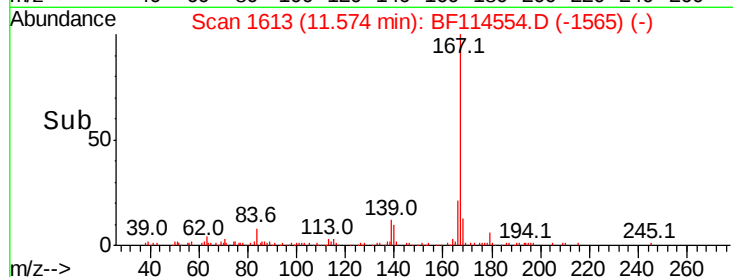
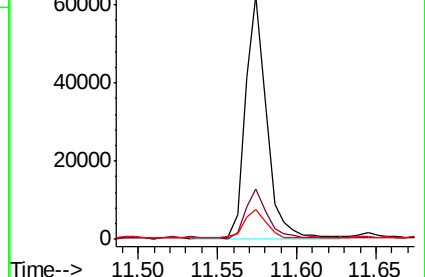
139 12.1 10.6 16.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 39.416 ng

RT: 12.56 min Scan# 1780

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

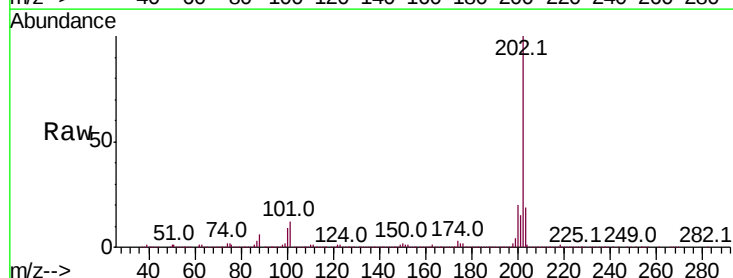
Tgt Ion:202 Resp: 1251357

Ion Ratio Lower Upper

202 100

101 11.8 0.0 31.0

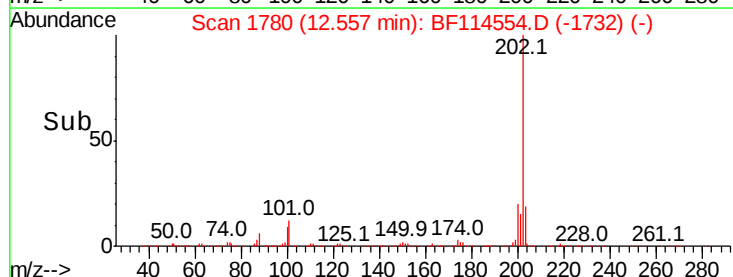
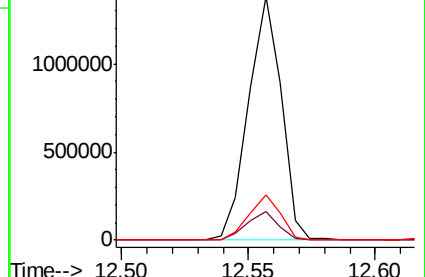
203 18.6 0.0 38.4

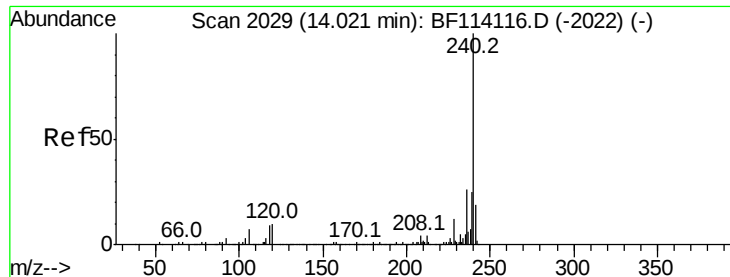


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

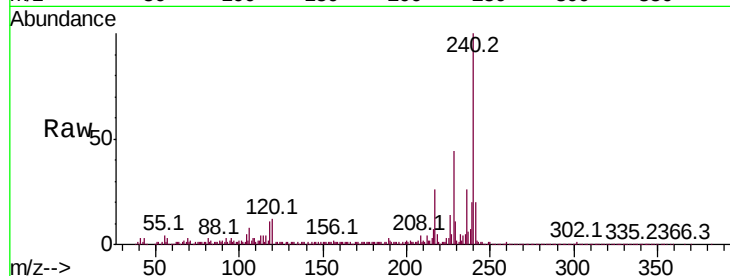




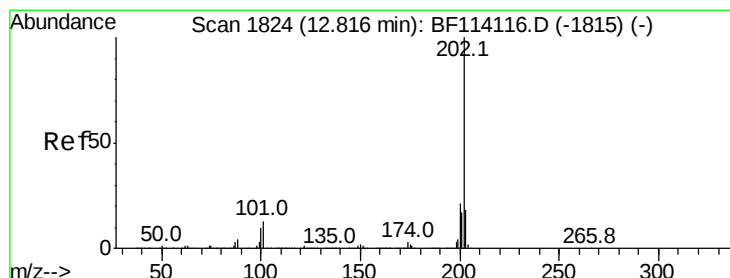
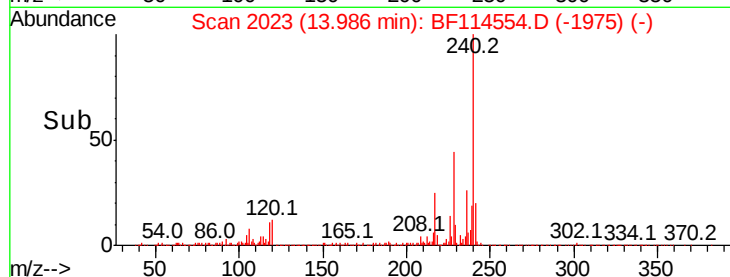
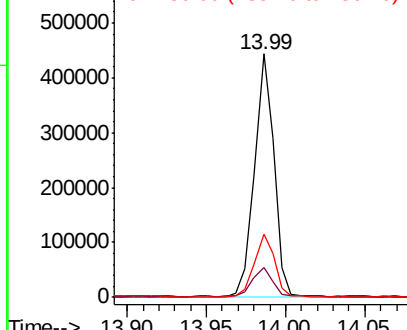
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. -0.02 min
 Lab File: BF114554.D
 Acq: 24 May 2019 5:04

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.4	8.3	12.5
236	26.1	20.8	31.2

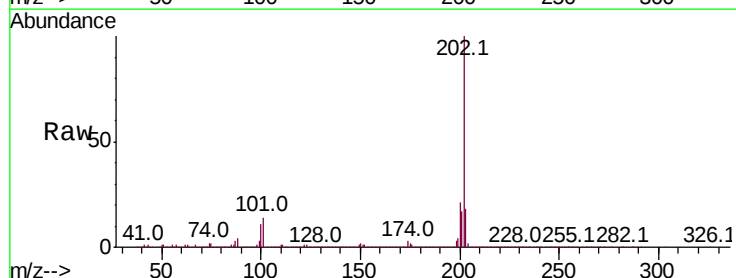


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

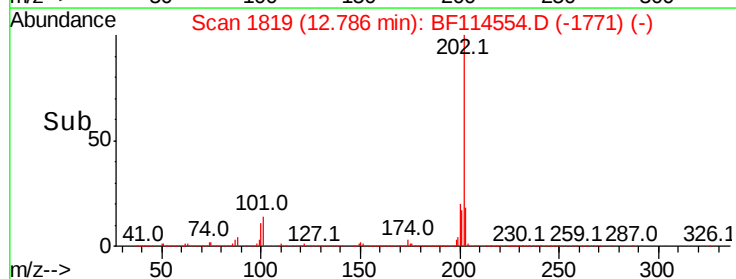
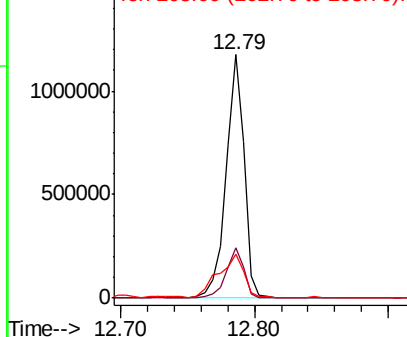


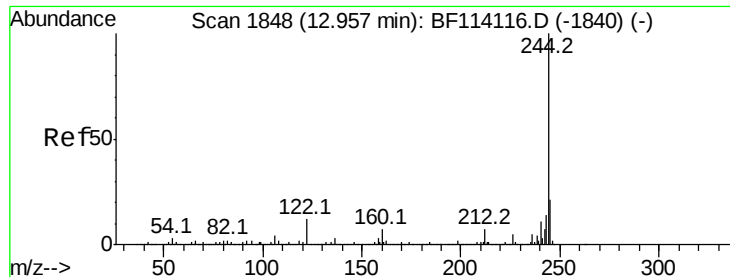
#78
 Pyrene
 Concen: 36.824 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. -0.02 min
 Lab File: BF114554.D
 Acq: 24 May 2019 5:04

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.9	25.3
203	18.3	14.5	21.7



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: 21.053 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampled :

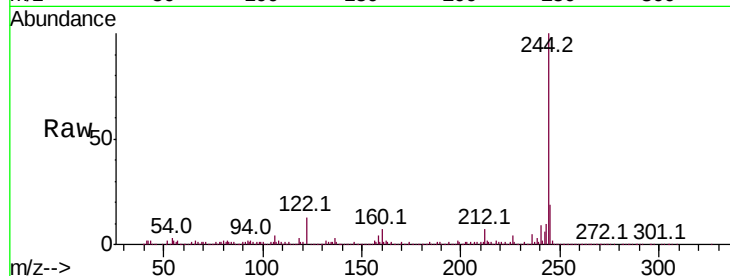
Tot Ion:244 Resp: 386703

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

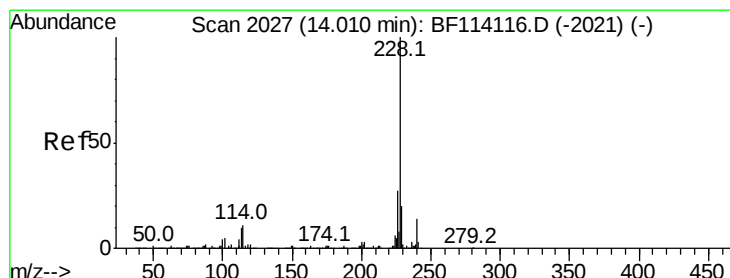
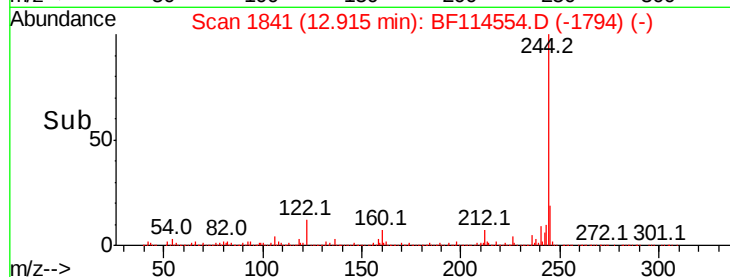
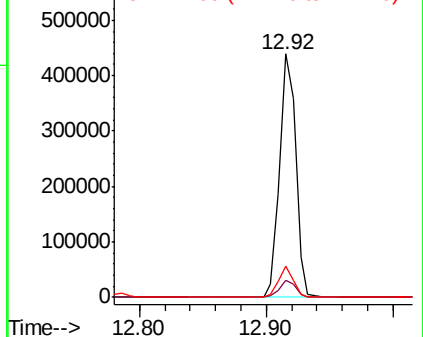
122 12.6 9.4 14.2



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: 28.674 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

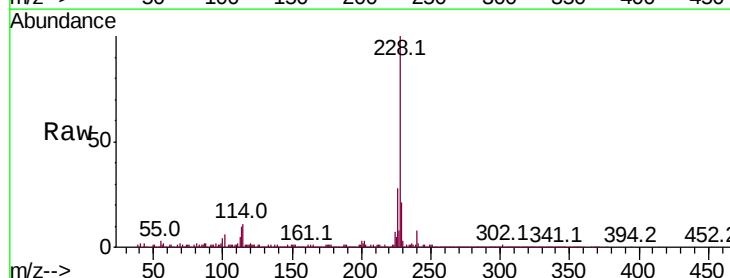
Tgt Ion:228 Resp: 702237

Ion Ratio Lower Upper

228 100

226 27.8 22.2 33.2

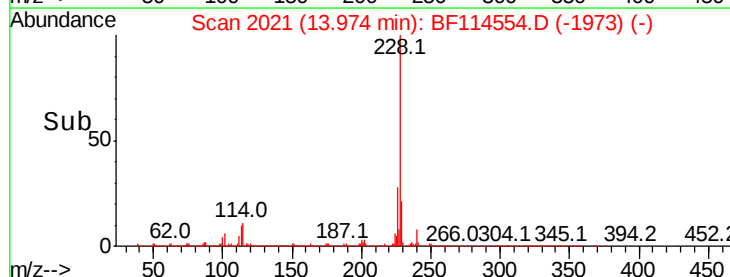
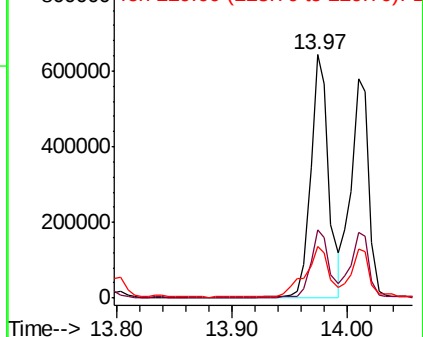
229 21.1 16.4 24.6

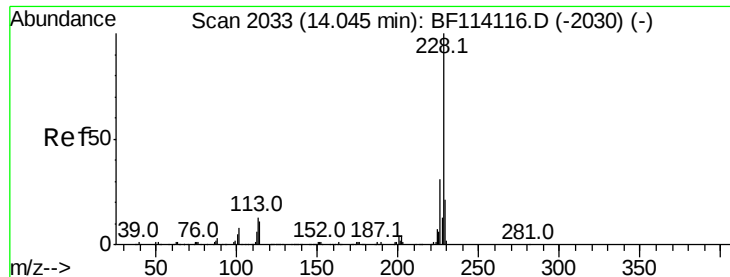


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 25.735 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampleId :

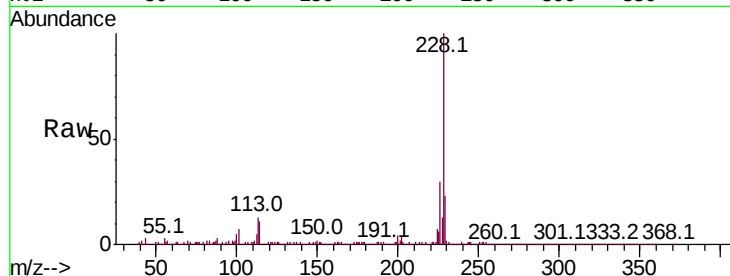
Tot Ion:228 Resp: 617838

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

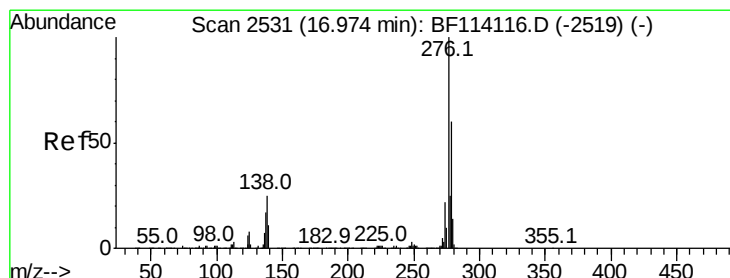
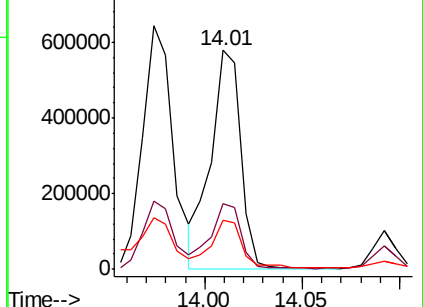
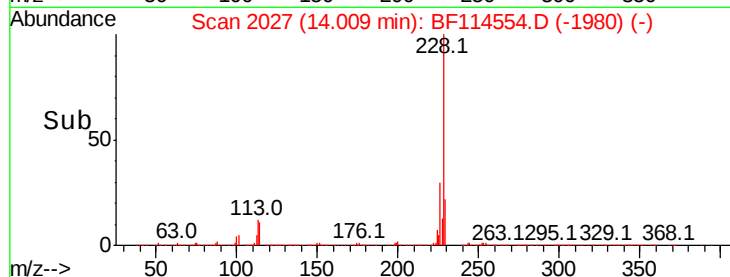
229 22.7 17.0 25.6



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 9.748 ng

RT: 16.94 min Scan# 2525

Delta R.T. -0.01 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

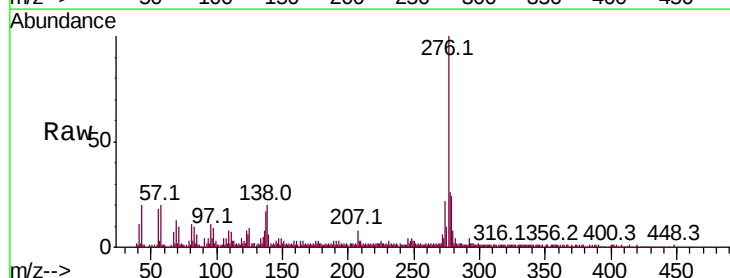
Tgt Ion:276 Resp: 206821

Ion Ratio Lower Upper

276 100

138 20.8 20.2 30.2

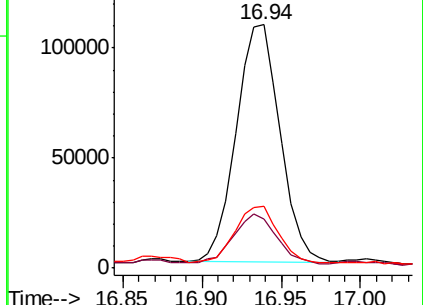
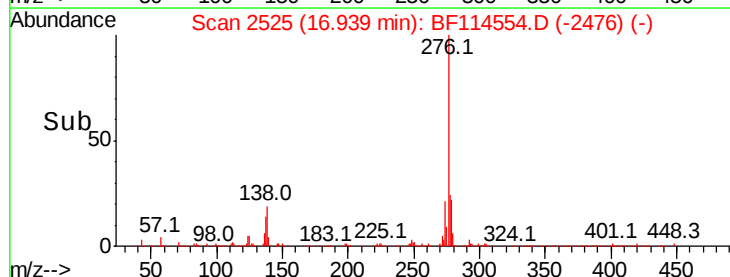
277 23.6 20.0 30.0

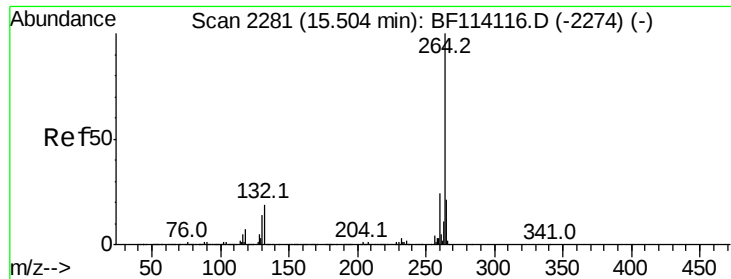


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2273

Delta R.T. -0.01 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampleId :

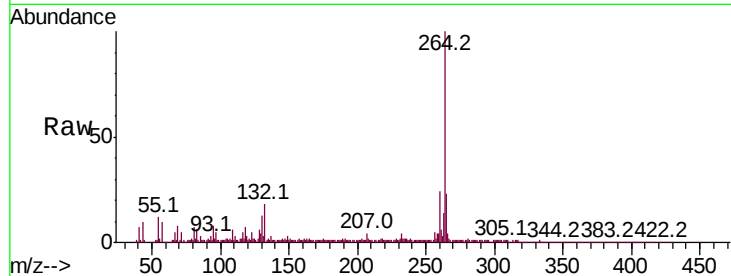
Tot Ion:264 Resp: 311661

Ion Ratio Lower Upper

264 100

260 23.8 19.4 29.0

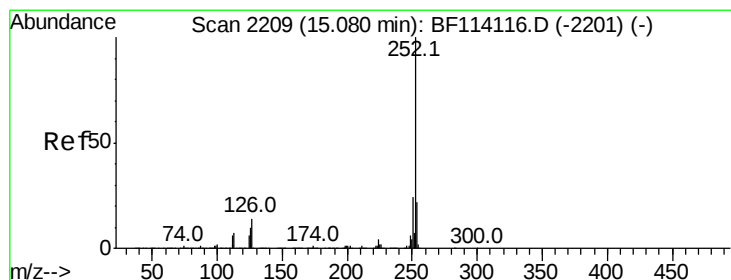
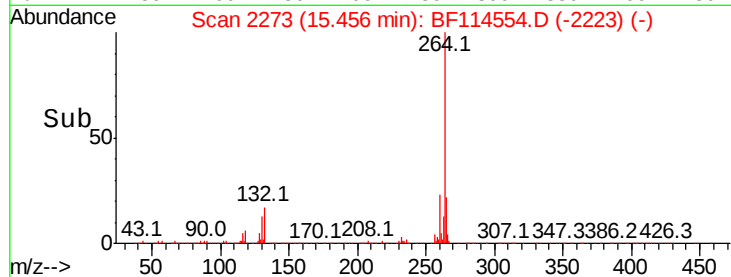
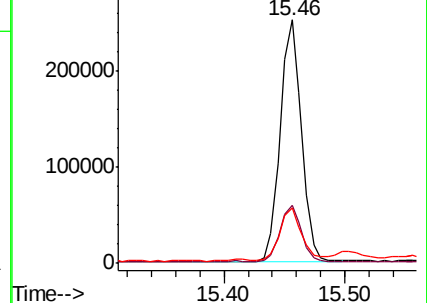
265 22.6 16.9 25.3



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: 45.444 ng

RT: 15.03 min Scan# 2201

Delta R.T. -0.01 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

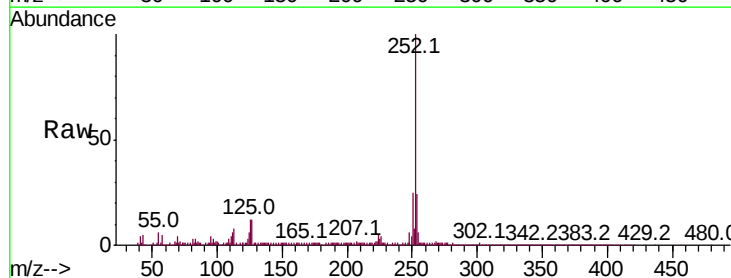
Tgt Ion:252 Resp: 907372

Ion Ratio Lower Upper

252 100

253 24.0 17.8 26.8

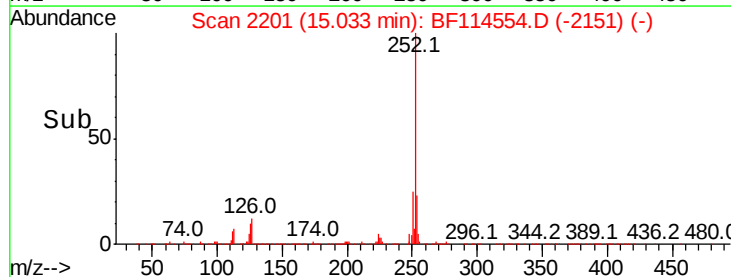
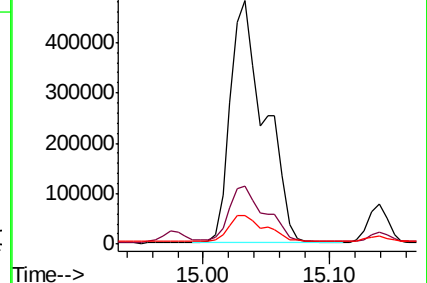
125 11.6 8.3 12.5

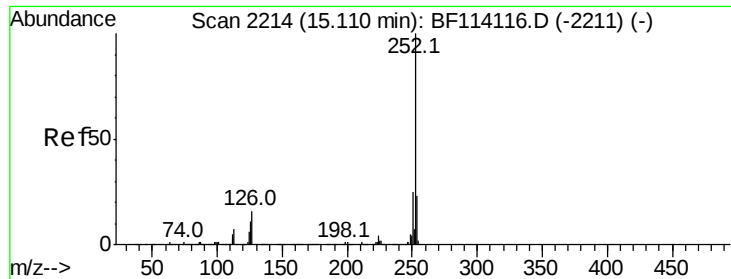


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

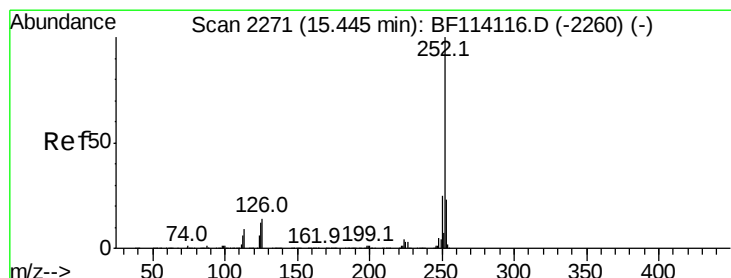
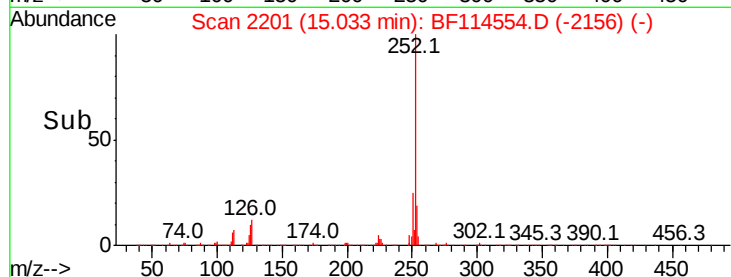
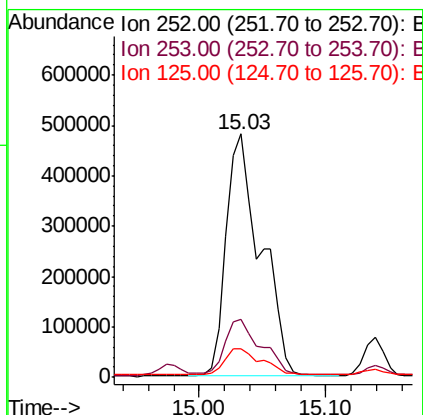
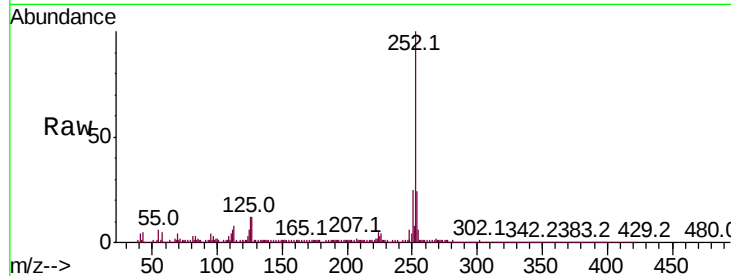




#89
Benzo(k)fluoranthene
Concen: 49.471 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.04 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

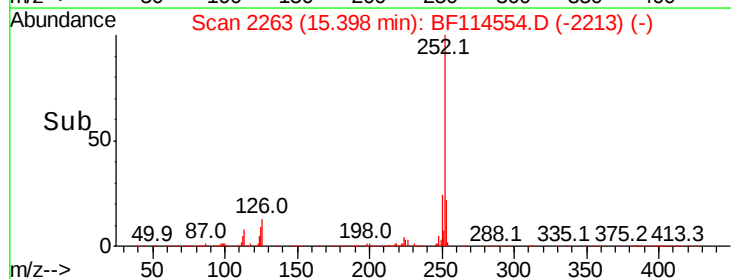
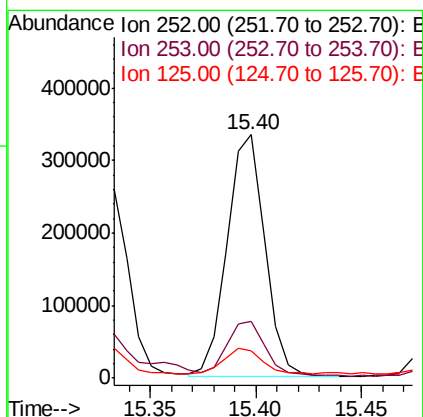
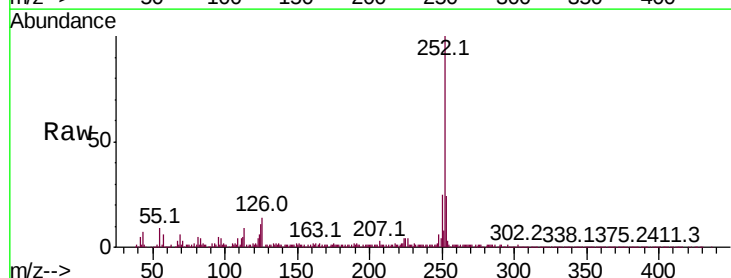
Instrument :
BNA_F
ClientSampleId :

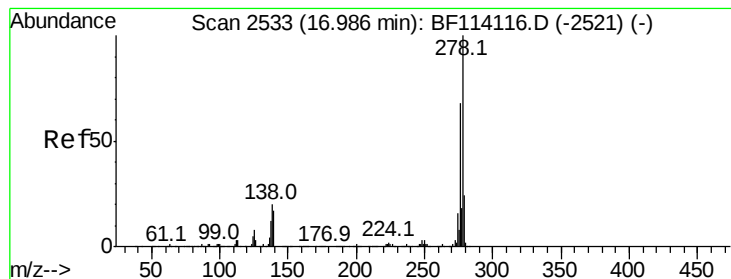
Tot Ion:252 Resp: 907372
Ion Ratio Lower Upper
252 100
253 24.0 18.2 27.2
125 11.6 8.6 13.0



#90
Benzo(a)pyrene
Concen: 23.436 ng
RT: 15.40 min Scan# 2263
Delta R.T. -0.01 min
Lab File: BF114554.D
Acq: 24 May 2019 5:04

Tgt Ion:252 Resp: 411821
Ion Ratio Lower Upper
252 100
253 23.6 18.1 27.1
125 11.2 9.5 14.3





#91

Dibenzo(a,h)anthracene

Concen: 4.101 ng

RT: 16.93 min Scan# 2523

Delta R.T. -0.02 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

Instrument :

BNA_F

ClientSampleId :

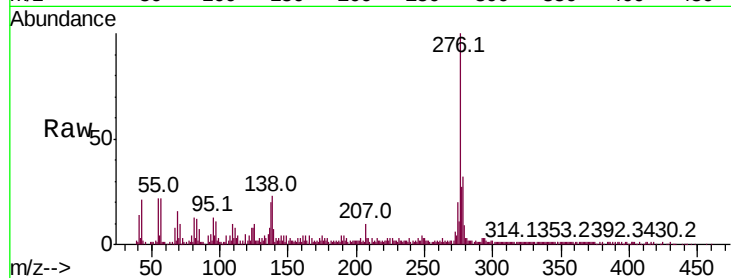
Tot Ion:278 Resp: 59876

Ion Ratio Lower Upper

278 100

139 22.1 13.5 20.3#

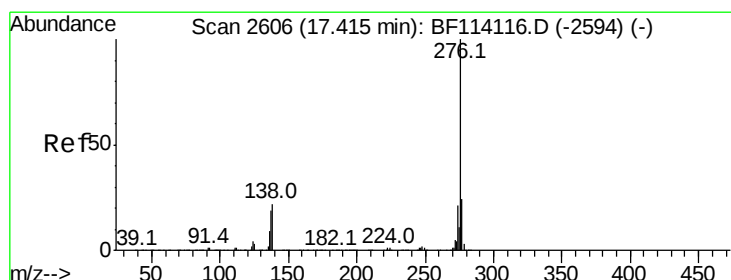
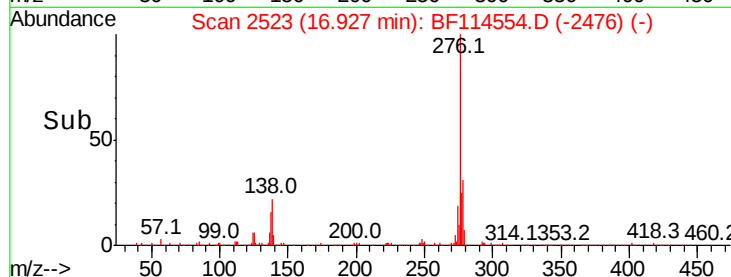
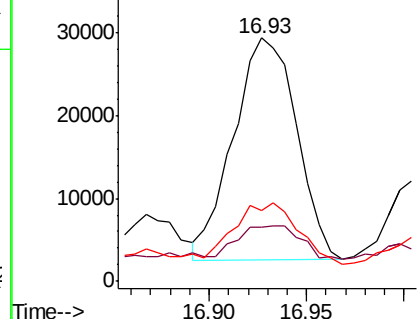
279 28.9 19.0 28.6#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 13.126 ng

RT: 17.39 min Scan# 2601

Delta R.T. 0.00 min

Lab File: BF114554.D

Acq: 24 May 2019 5:04

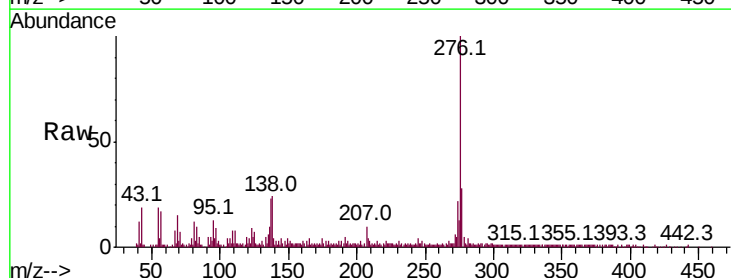
Tgt Ion:276 Resp: 192080

Ion Ratio Lower Upper

276 100

277 27.6 19.0 28.4

138 24.1 17.8 26.6



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

