

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082919\
 Data File : BM022424.D
 Acq On : 30 Aug 2019 01:02
 Operator : HP/JU
 Sample : K4439-05
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S-4A-(1-3)

Quant Time: Aug 30 08:47:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 29 16:51:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	18501	20.00	ng	0.00
21) Naphthalene-d8	10.30	136	67758	20.00	ng	0.00
39) Acenaphthene-d10	14.19	164	43753	20.00	ng	0.00
64) Phenanthrene-d10	16.95	188	95655	20.00	ng	0.00
76) Chrysene-d12	21.17	240	132622	20.00	ng	0.00
87) Perylene-d12	23.36	264	158736	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.15	112	113721	107.90	ng	0.00
7) Phenol-d6	6.72	99	150142	106.52	ng	0.00
23) Nitrobenzene-d5	8.69	82	105696	68.32	ng	0.00
42) 2,4,6-Tribromophenol	15.70	330	78374	87.54	ng	0.00
45) 2-Fluorobiphenyl	12.79	172	206109	53.37	ng	0.00
79) Terphenyl-d14	19.60	244	406671	40.47	ng	0.00

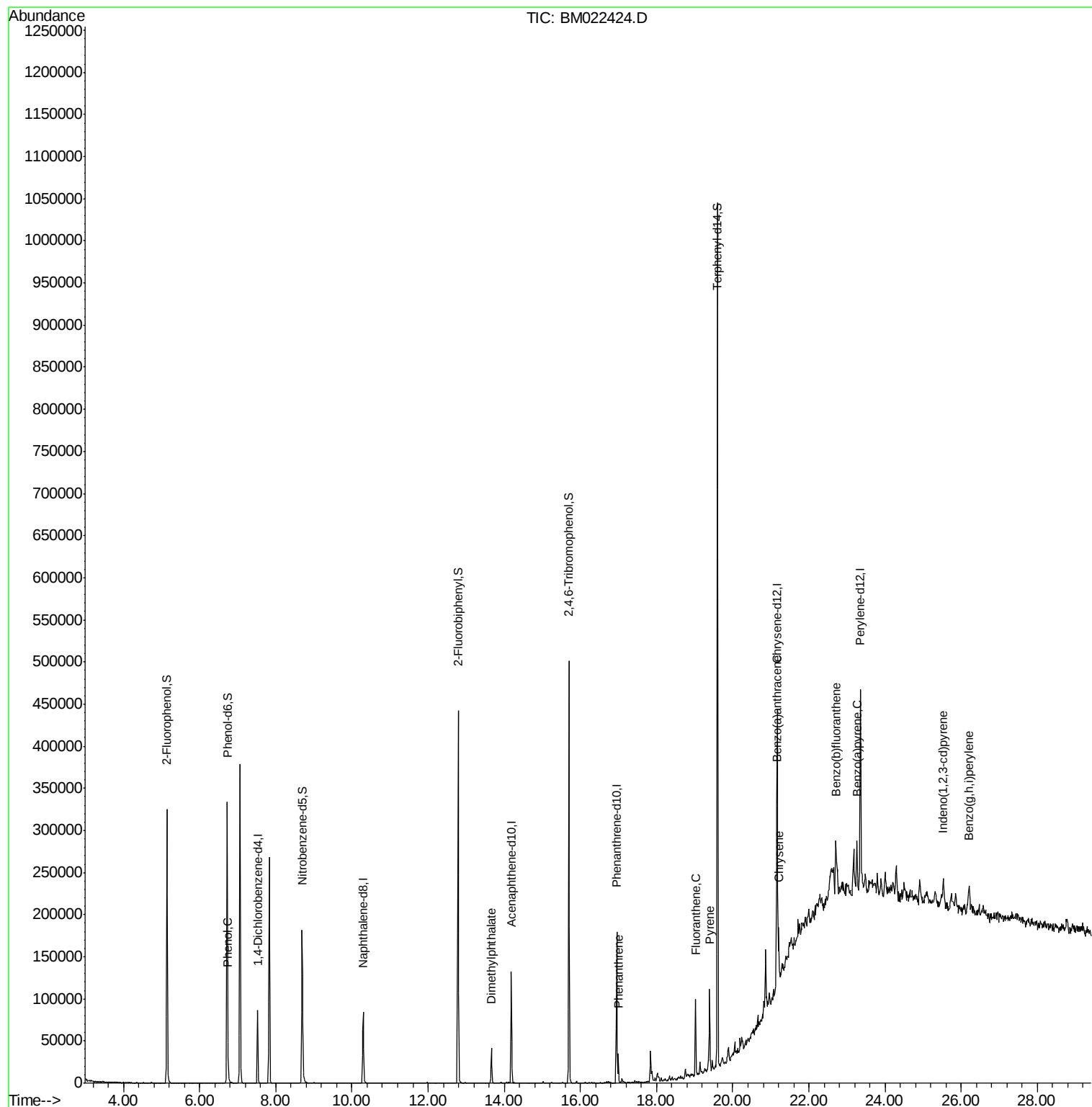
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.75	94	4805	3.393	ng	# 61
50) Dimethylphthalate	13.66	163	27612	7.256	ng	99
71) Phenanthrene	16.99	178	19934	3.575	ng	98
75) Fluoranthene	19.03	202	52430	7.061	ng	97
78) Pyrene	19.39	202	55395	6.129	ng	98
81) Benzo(a)anthracene	21.15	228	36780	3.864	ng	94
83) Chrysene	21.20	228	34027	3.756	ng	94
86) Indeno(1,2,3-cd)pyrene	25.53	276	22532	2.472	ng	# 82
88) Benzo(b)fluoranthene	22.70	252	44450	4.031	ng	# 93
90) Benzo(a)pyrene	23.26	252	32310	3.301	ng	# 91
92) Benzo(g,h,i)perylene	26.20	276	27843	3.273	ng	# 91

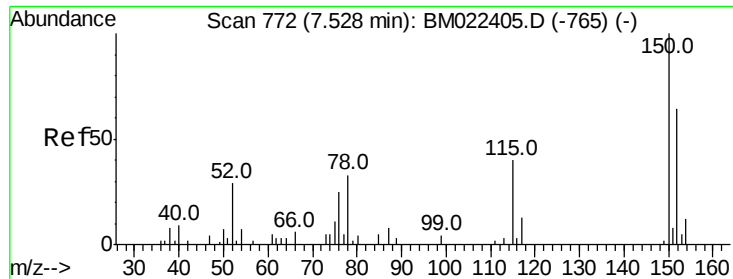
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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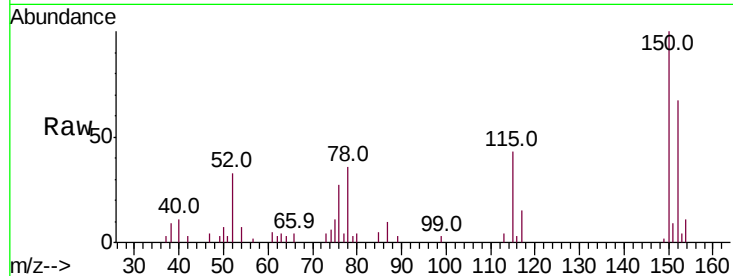


#1

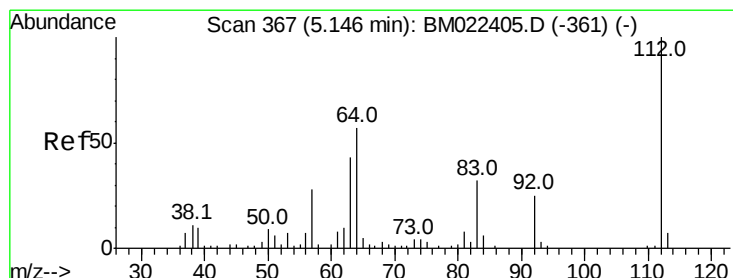
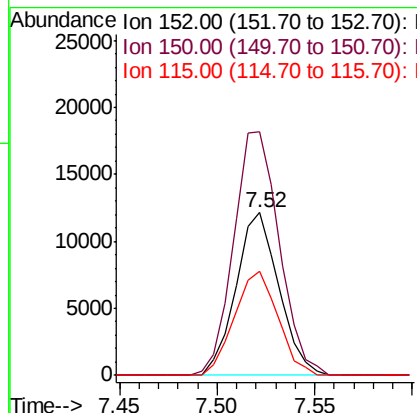
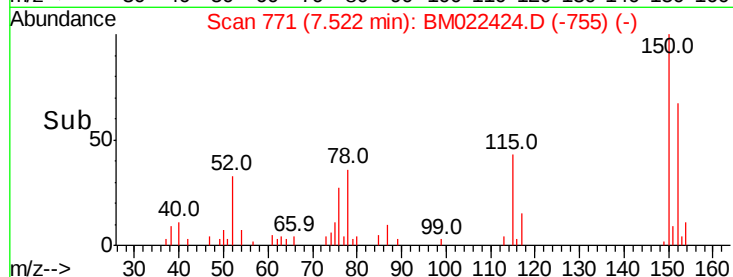
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 771
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Instrument :
BNA_M
ClientSampled :
S-4A-(1-3)

Tot Ion:152 Resp: 18501
Ion Ratio Lower Upper
152 100
150 149.8 125.4 188.0
115 64.2 50.3 75.5



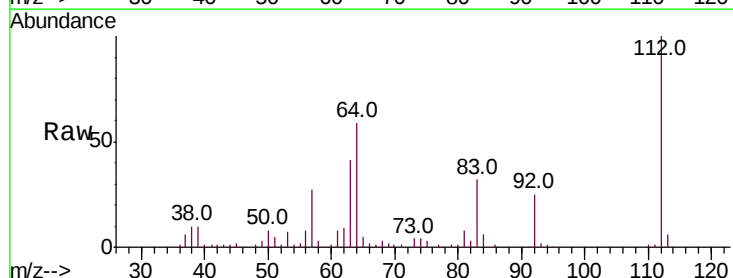
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



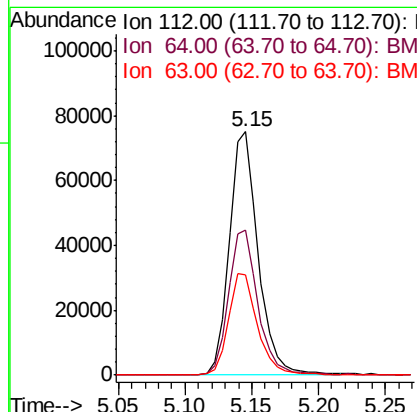
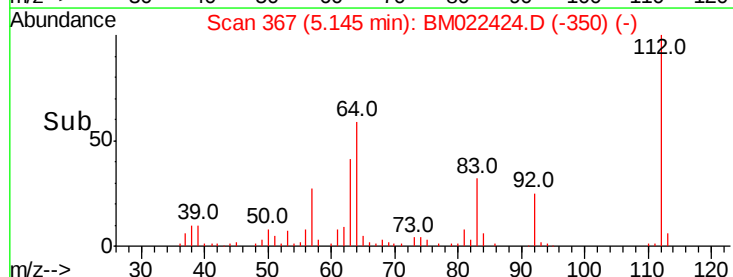
#5

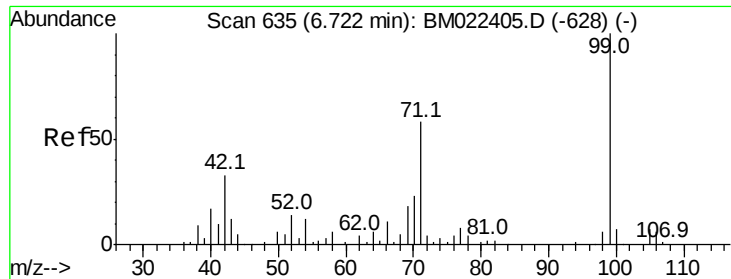
2-Fluorophenol
Concen: 107.896 ng
RT: 5.15 min Scan# 367
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:112 Resp: 113721
Ion Ratio Lower Upper
112 100
64 59.4 45.4 68.2
63 41.3 34.5 51.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 106.524 ng

RT: 6.72 min Scan# 635

Delta R.T. -0.00 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampleId :

S-4A-(1-3)

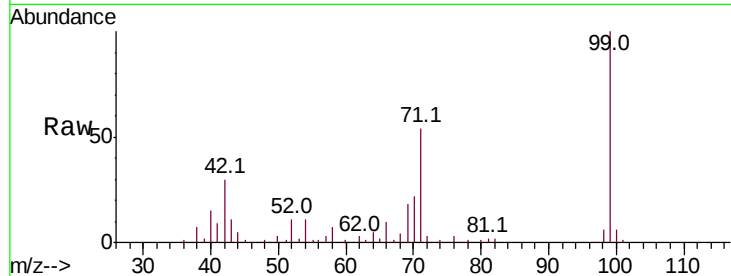
Tot Ion: 99 Resp: 150142

Ion Ratio Lower Upper

99 100

42 30.2 26.3 39.5

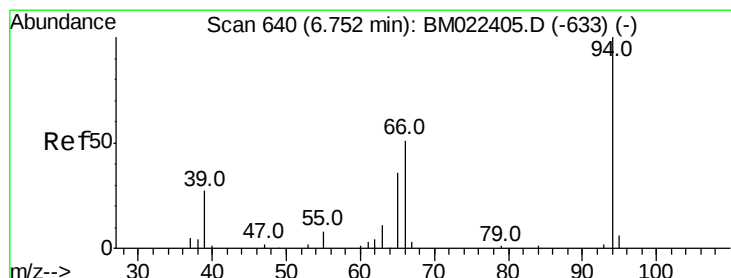
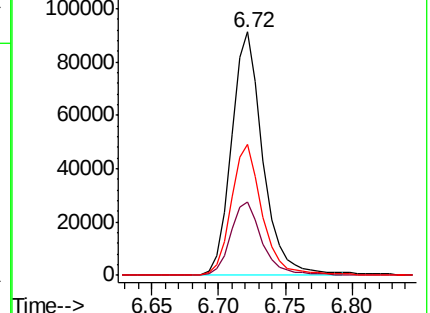
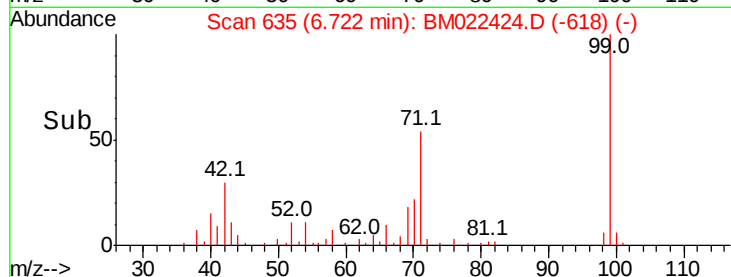
71 53.8 46.6 69.8



Abundance Ion 99.00 (98.70 to 99.70): BM022405.D (-628) (-)

Ion 42.00 (41.70 to 42.70): BM022405.D (-628) (-)

Ion 71.00 (70.70 to 71.70): BM022405.D (-628) (-)



#10

Phenol

Concen: 3.393 ng

RT: 6.75 min Scan# 639

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

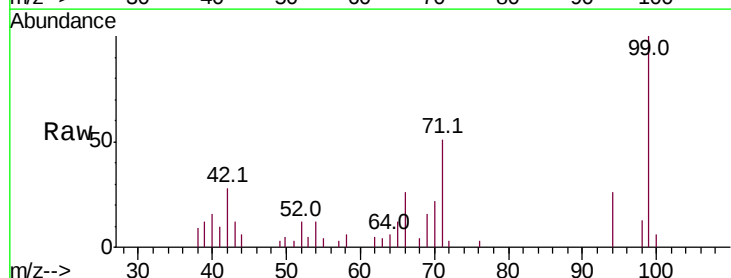
Tgt Ion: 94 Resp: 4805

Ion Ratio Lower Upper

94 100

65 47.1 17.7 57.7

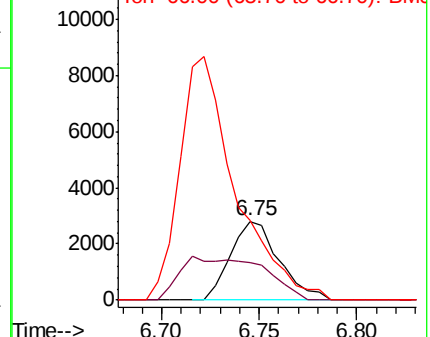
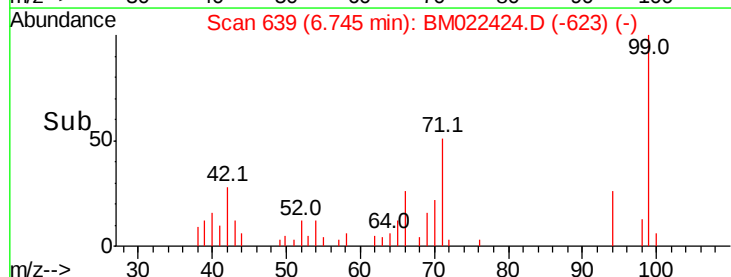
66 100.7 39.6 79.6#

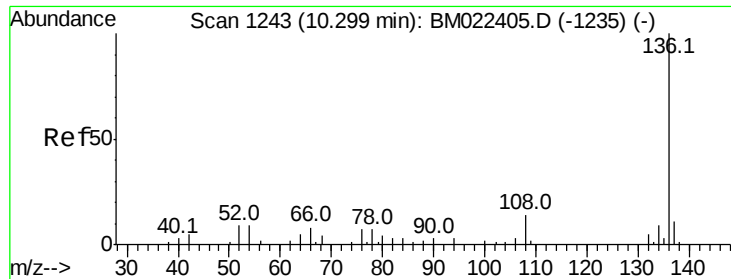


Abundance Ion 94.00 (93.70 to 94.70): BM022405.D (-633) (-)

Ion 65.00 (64.70 to 65.70): BM022405.D (-633) (-)

Ion 66.00 (65.70 to 66.70): BM022405.D (-633) (-)

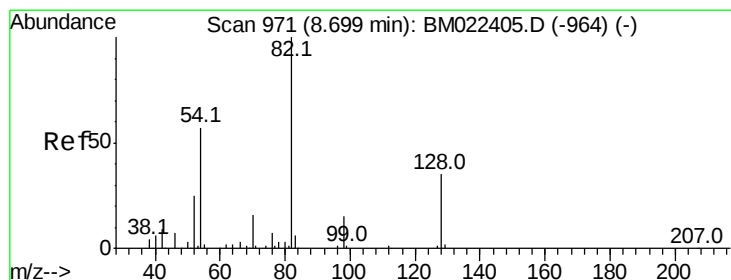
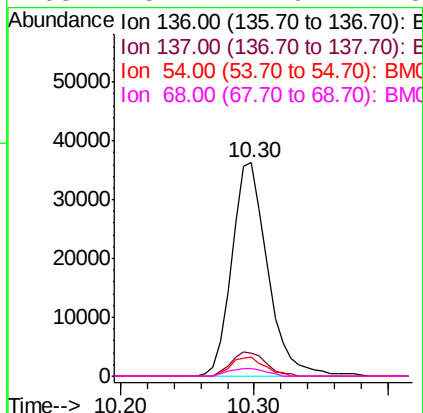
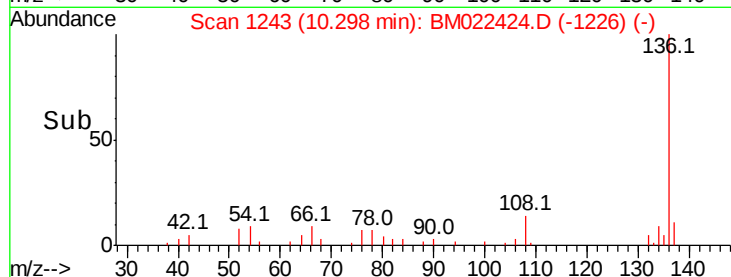
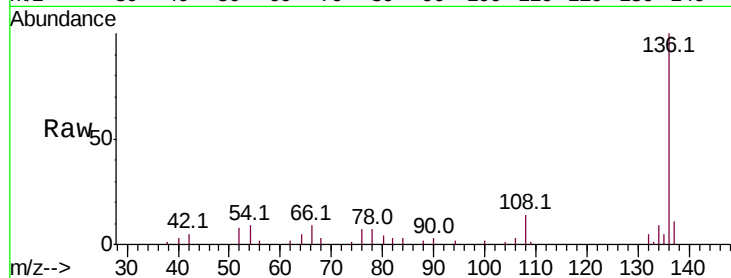




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.30 min Scan# 1243
Delta R.T. -0.00 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

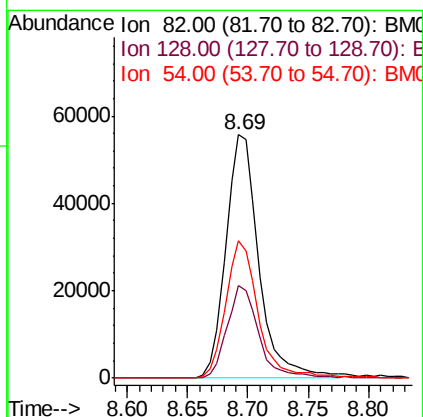
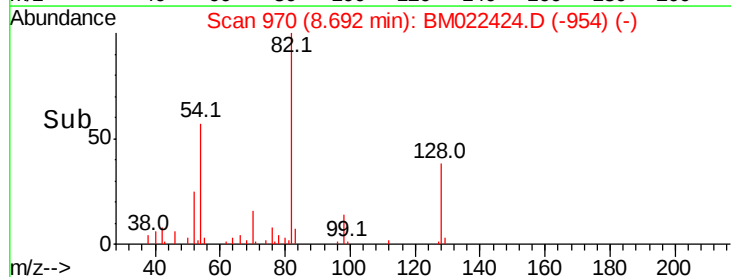
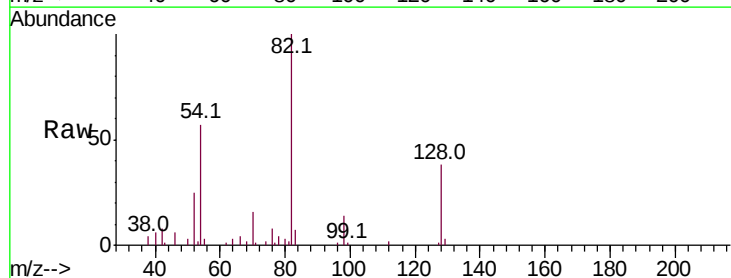
Instrument :
BNA_M
ClientSampled :
S-4A-(1-3)

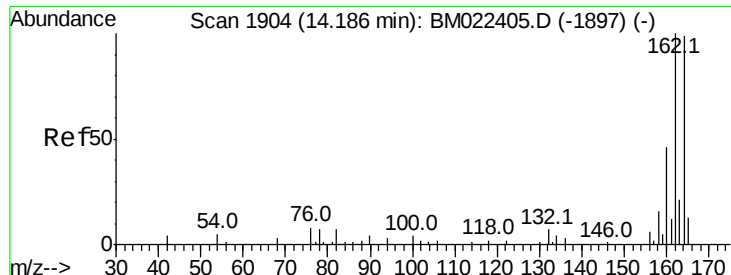
Tot Ion:	136	Resp:	67758
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.9	7.0	10.6
68	3.4	2.9	4.3



#23
Nitrobenzene-d5
Concen: 68.324 ng
RT: 8.69 min Scan# 970
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion:	82	Resp:	105696
Ion	Ratio	Lower	Upper
82	100		
128	38.0	27.9	41.9
54	56.7	45.2	67.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.19 min Scan# 1904

Delta R.T. -0.00 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampleId :

S-4A-(1-3)

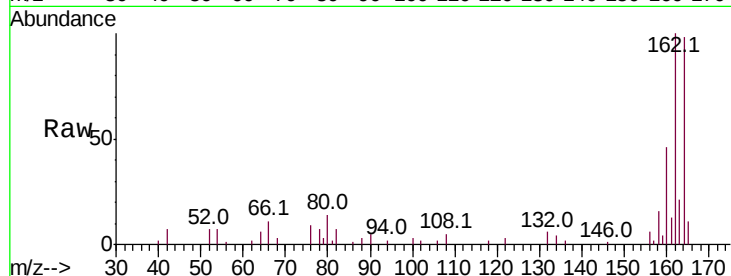
Tot Ion:164 Resp: 43753

Ion Ratio Lower Upper

164 100

162 102.2 80.6 121.0

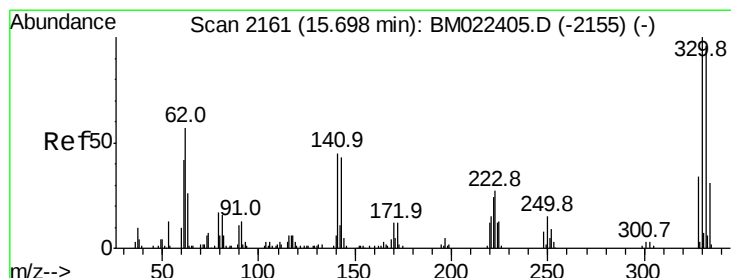
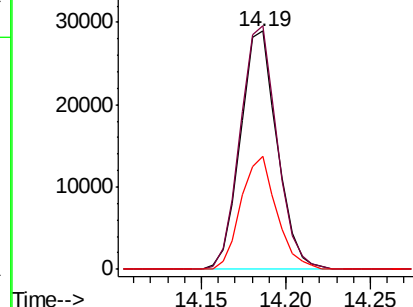
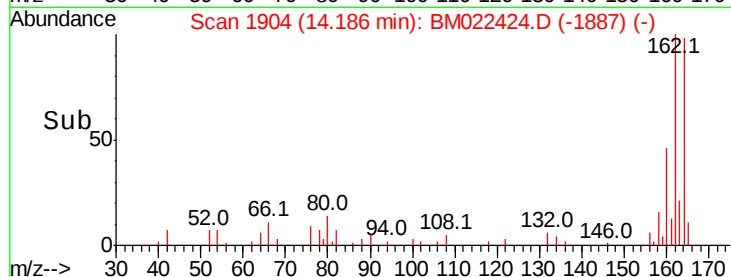
160 47.2 37.3 55.9



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: 87.539 ng

RT: 15.70 min Scan# 2161

Delta R.T. -0.00 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

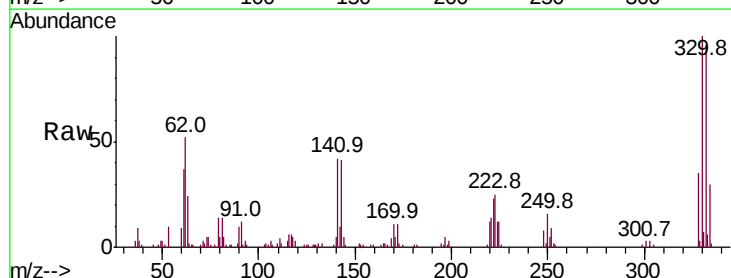
Tgt Ion:330 Resp: 78374

Ion Ratio Lower Upper

330 100

332 95.5 77.8 116.8

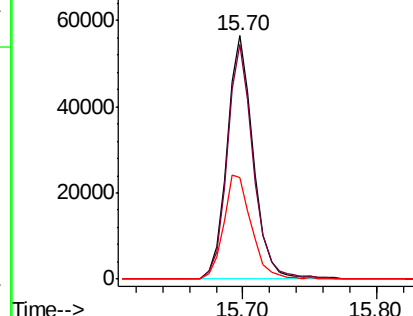
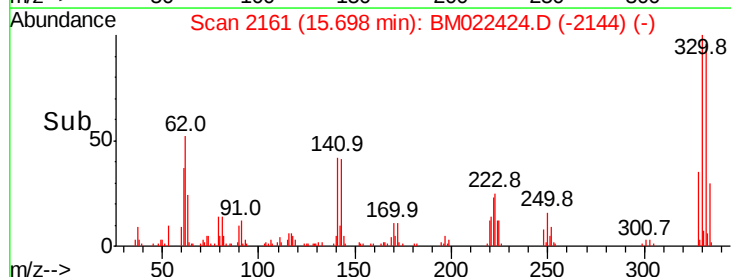
141 45.1 35.6 53.4

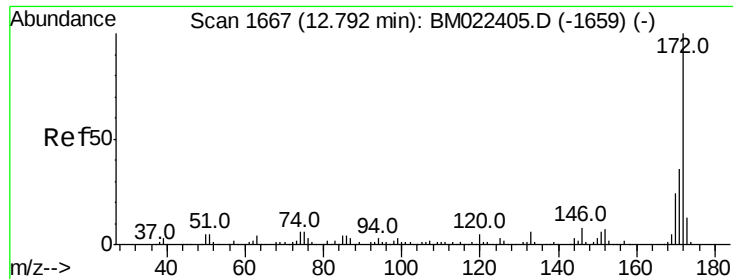


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 53.365 ng

RT: 12.79 min Scan# 1666

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampleId :

S-4A-(1-3)

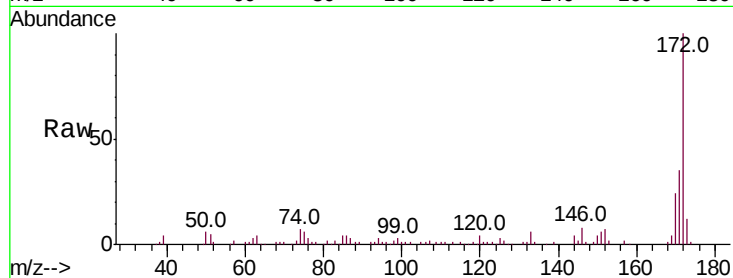
Tot Ion:172 Resp: 206109

Ion Ratio Lower Upper

172 100

171 35.0 28.5 42.7

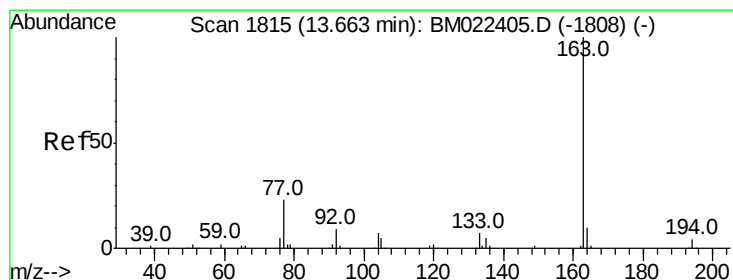
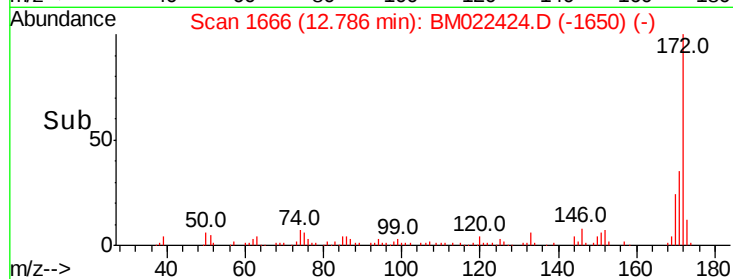
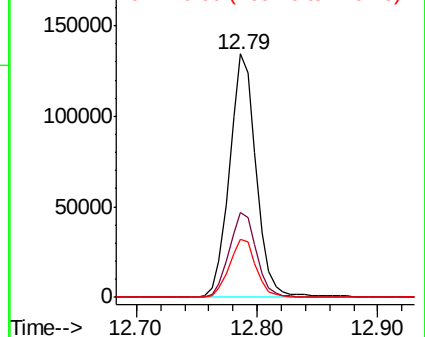
170 23.8 18.9 28.3



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: 7.256 ng

RT: 13.66 min Scan# 1815

Delta R.T. -0.00 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

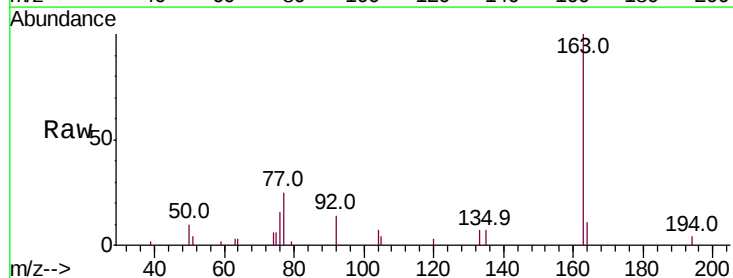
Tgt Ion:163 Resp: 27612

Ion Ratio Lower Upper

163 100

194 4.2 3.4 5.2

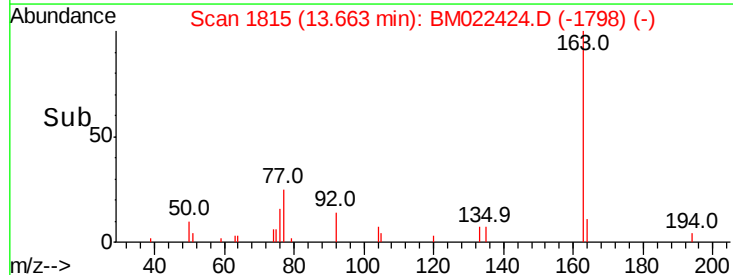
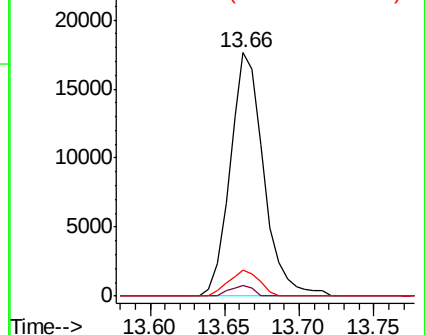
164 10.7 8.2 12.2

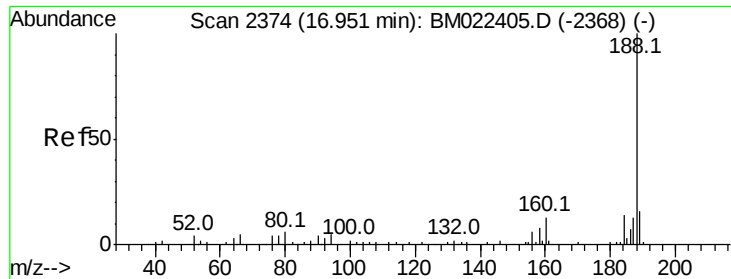


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.95 min Scan# 2374

Delta R.T. -0.00 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampleId :

S-4A-(1-3)

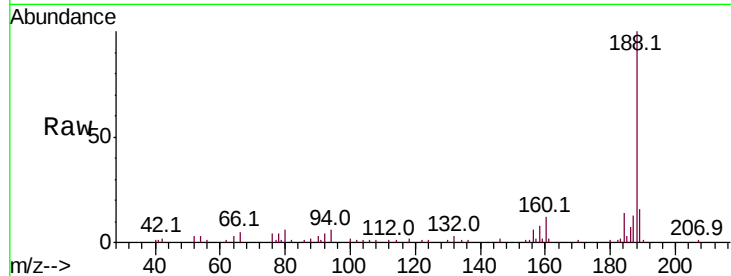
Tot Ion:188 Resp: 95655

Ion Ratio Lower Upper

188 100

94 6.2 4.4 6.6

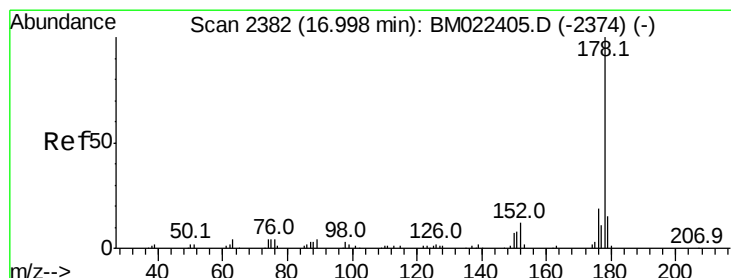
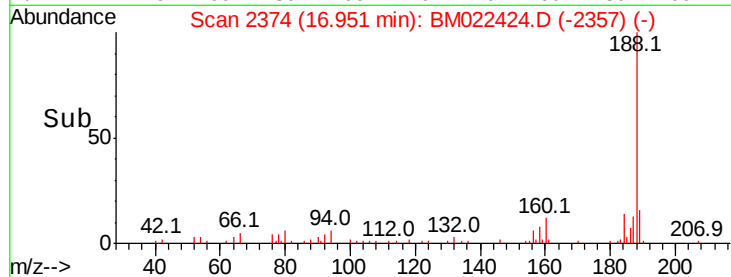
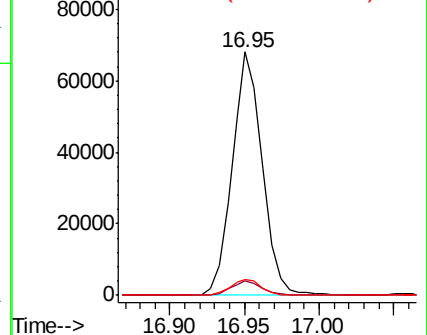
80 6.3 5.0 7.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#71

Phenanthrene

Concen: 3.575 ng

RT: 16.99 min Scan# 2381

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

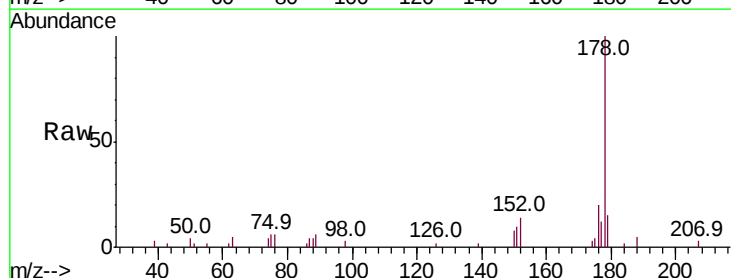
Tgt Ion:178 Resp: 19934

Ion Ratio Lower Upper

178 100

176 20.0 15.4 23.2

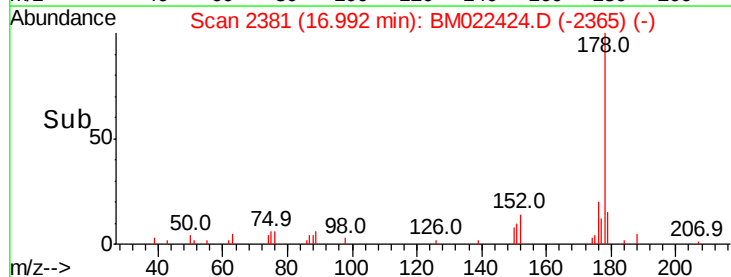
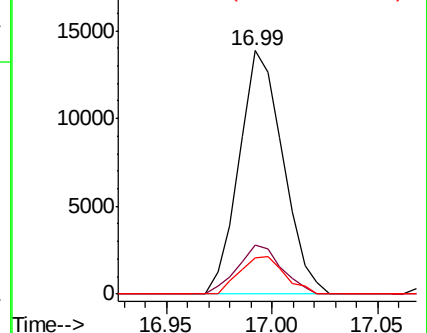
179 14.7 12.3 18.5

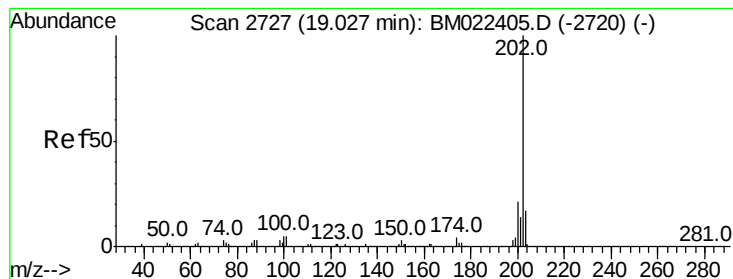


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 7.061 ng

RT: 19.03 min Scan# 2727

Delta R.T. -0.00 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampleId :

S-4A-(1-3)

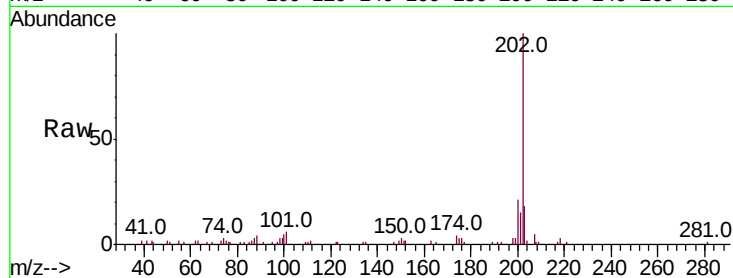
Tot Ion:202 Resp: 52430

Ion Ratio Lower Upper

202 100

101 6.2 0.0 25.1

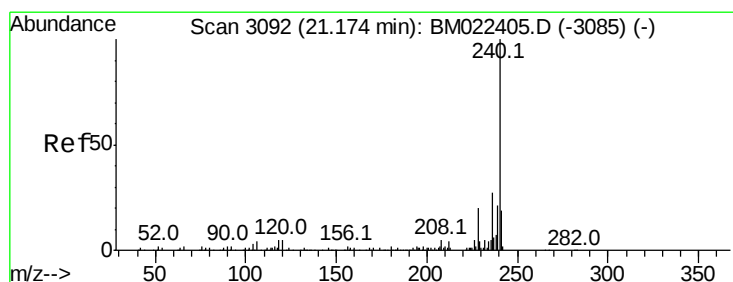
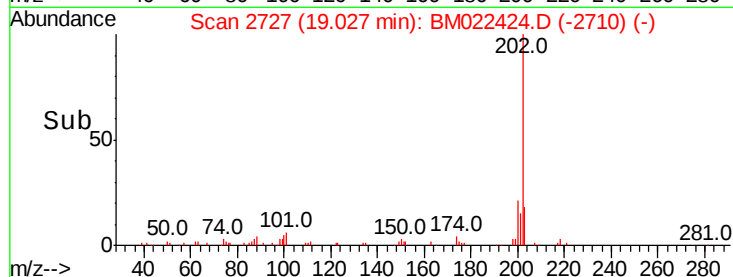
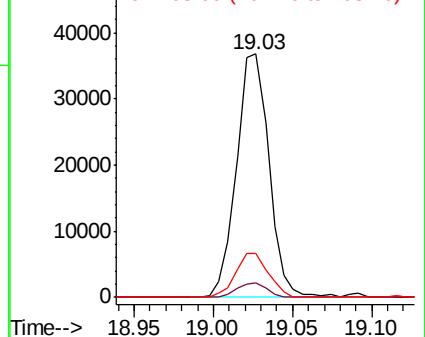
203 18.2 0.0 37.1



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: 21.17 min Scan# 3091

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

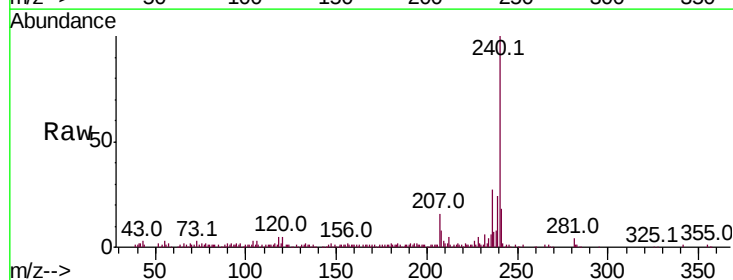
Tgt Ion:240 Resp: 132622

Ion Ratio Lower Upper

240 100

120 4.9 3.9 5.9

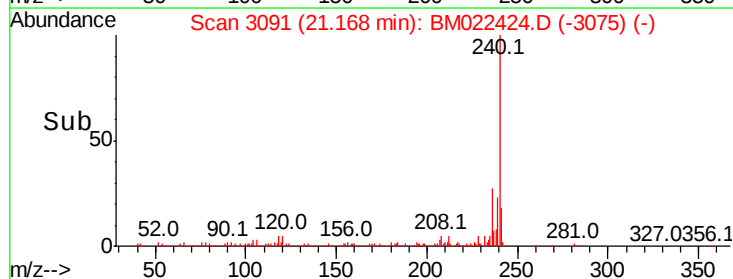
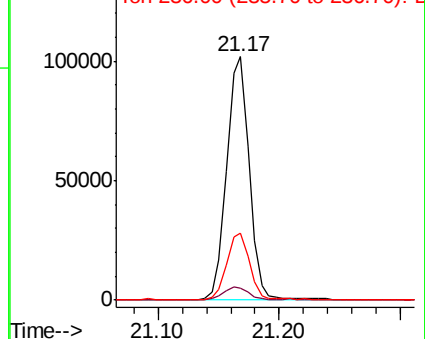
236 27.3 21.4 32.2

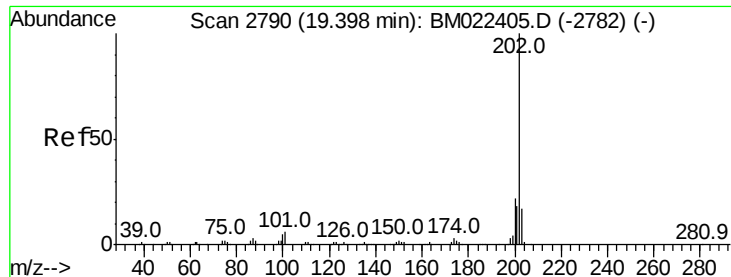


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 6.129 ng

RT: 19.39 min Scan# 2789

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampled :

S-4A-(1-3)

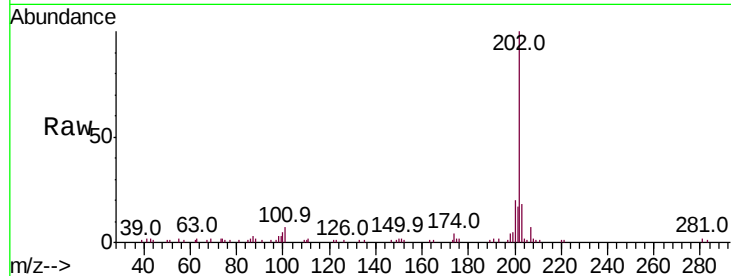
Tot Ion:202 Resp: 55395

Ion Ratio Lower Upper

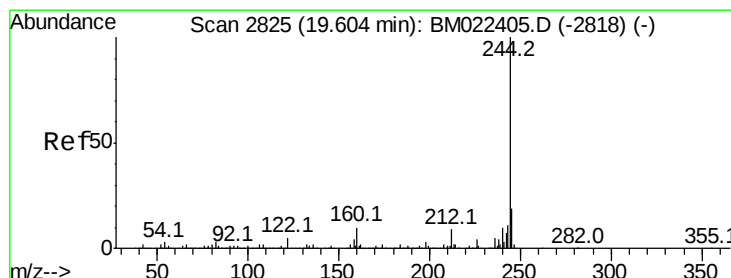
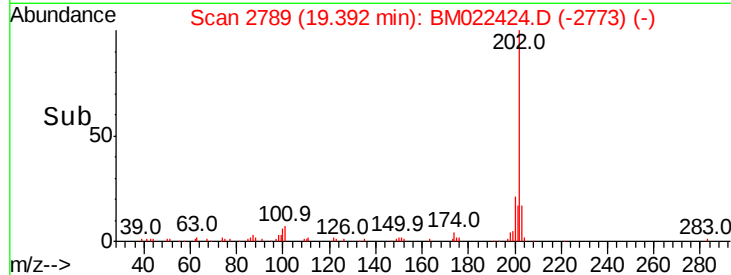
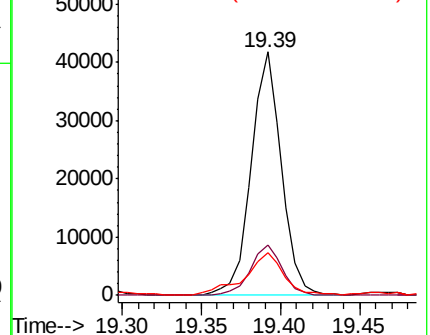
202 100

200 20.5 17.7 26.5

203 17.7 13.8 20.8



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: 40.469 ng

RT: 19.60 min Scan# 2824

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

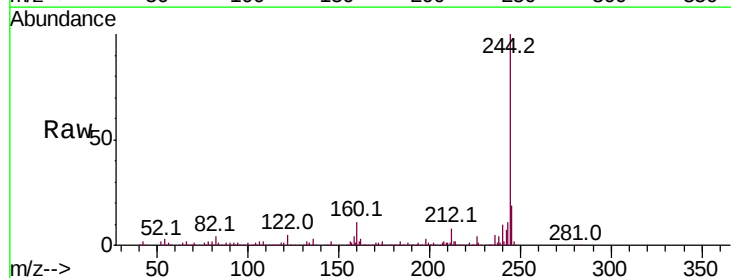
Tgt Ion:244 Resp: 406671

Ion Ratio Lower Upper

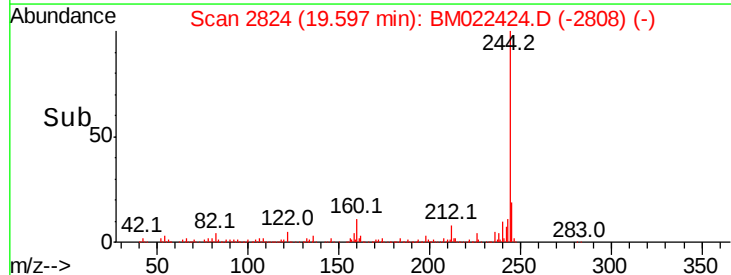
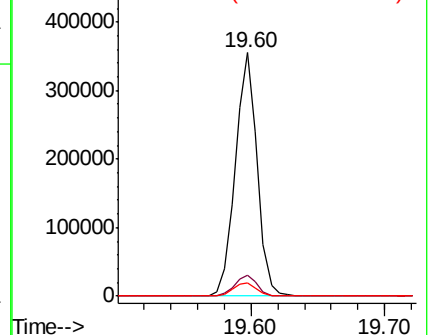
244 100

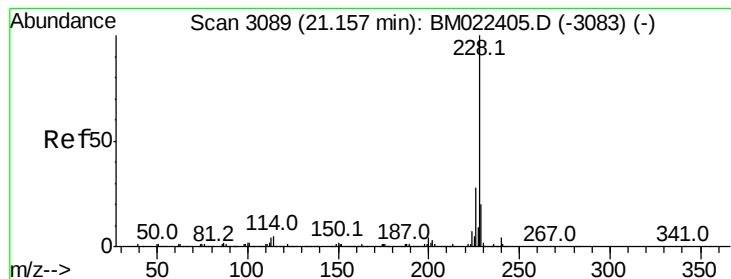
212 8.4 7.0 10.4

122 5.4 3.9 5.9



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: 3.864 ng

RT: 21.15 min Scan# 3088

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampleId :

S-4A-(1-3)

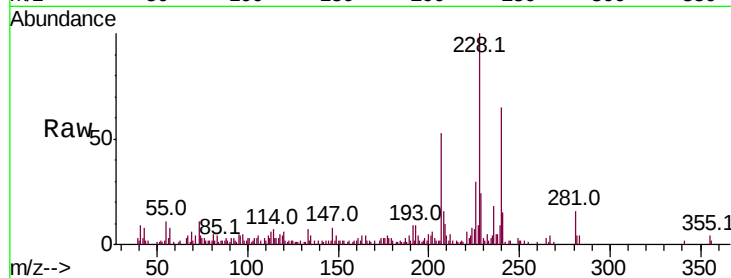
Tot Ion:228 Resp: 36780

Ion Ratio Lower Upper

228 100

226 30.5 22.6 34.0

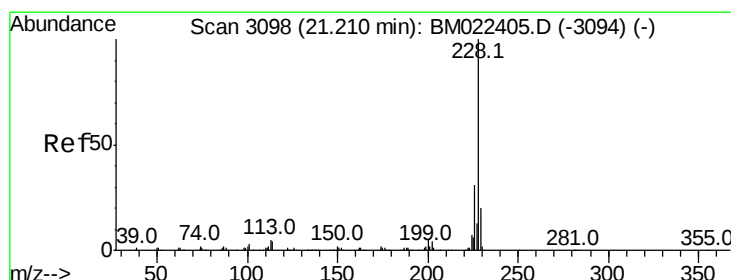
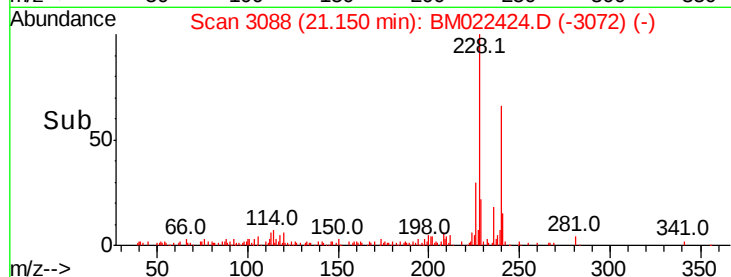
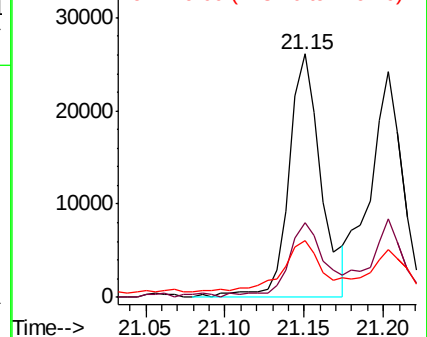
229 23.5 15.9 23.9



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: 3.756 ng

RT: 21.20 min Scan# 3097

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

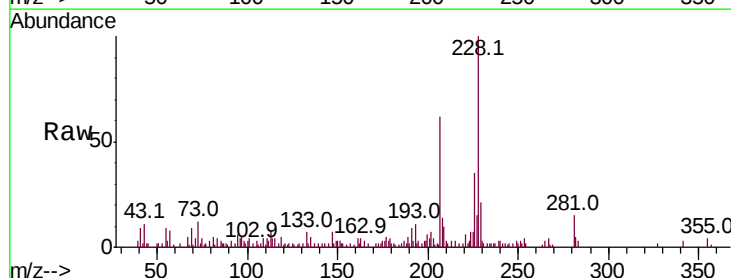
Tgt Ion:228 Resp: 34027

Ion Ratio Lower Upper

228 100

226 34.9 24.5 36.7

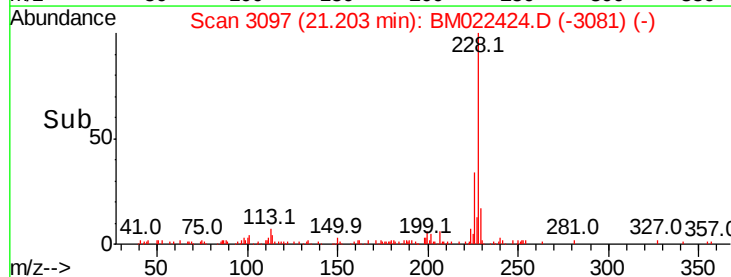
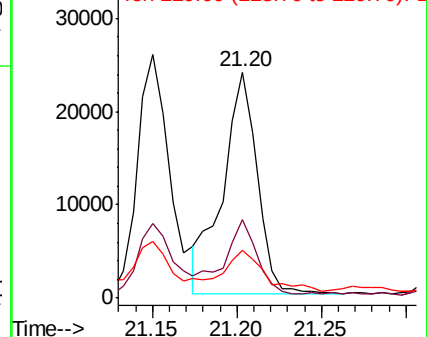
229 20.9 15.7 23.5

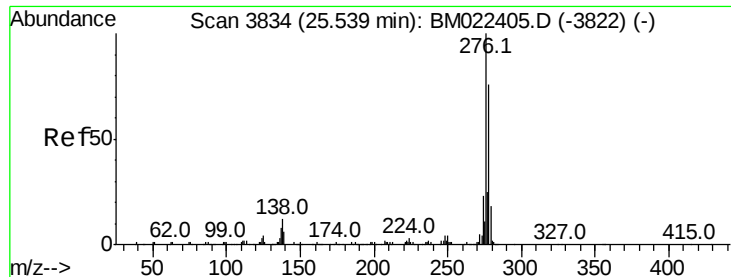


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

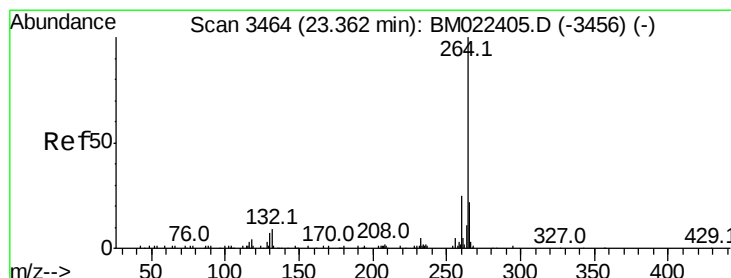
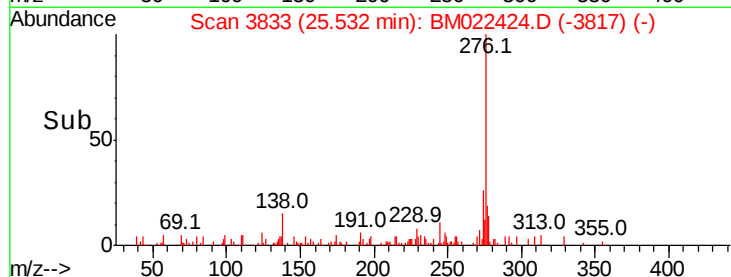
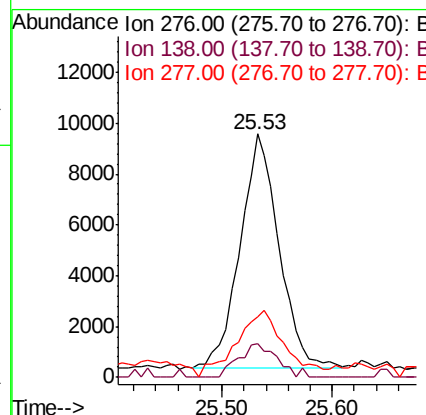
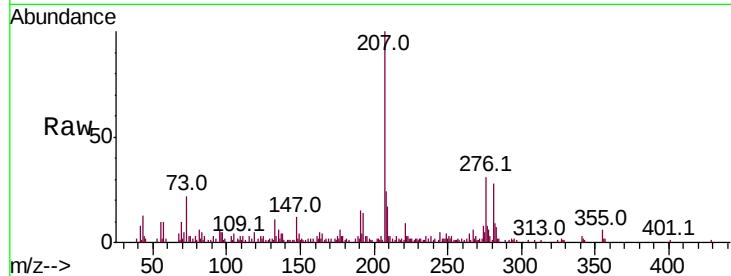




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.472 ng
 RT: 25.53 min Scan# 3833
 Delta R.T. -0.01 min
 Lab File: BM022424.D
 Acq: 30 Aug 2019 01:02

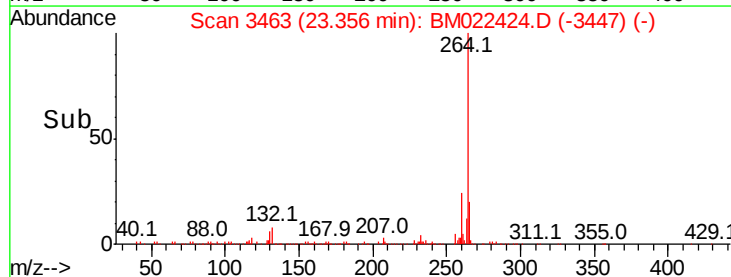
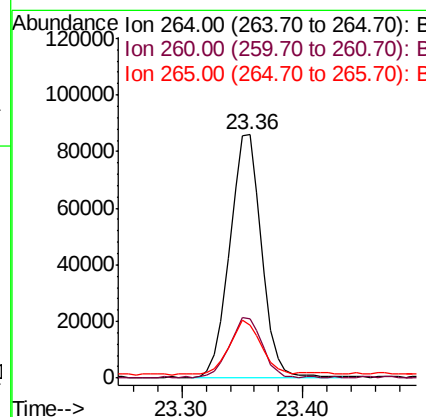
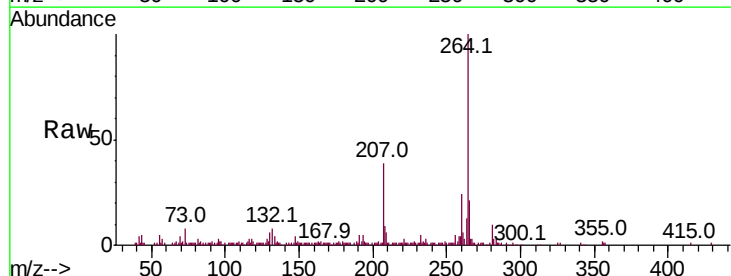
Instrument :
 BNA_M
 ClientSampleId :
 S-4A-(1-3)

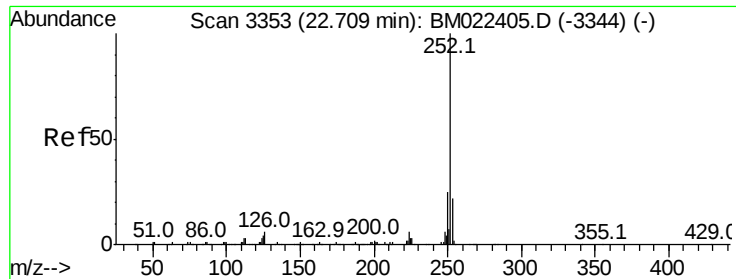
Tot Ion	Ratio	Lower	Upper
276	100		
138	14.5	9.1	13.7#
277	36.4	20.0	30.0#



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.36 min Scan# 3463
 Delta R.T. -0.01 min
 Lab File: BM022424.D
 Acq: 30 Aug 2019 01:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	20.2	30.2
265	21.5	18.2	27.2

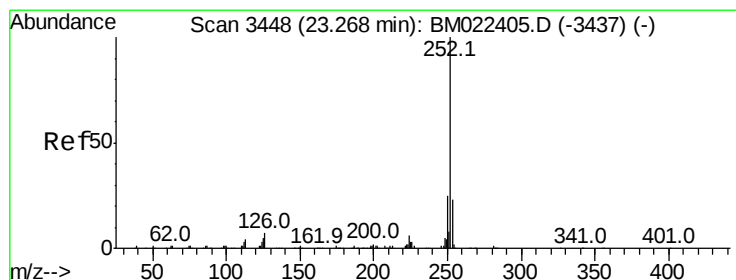
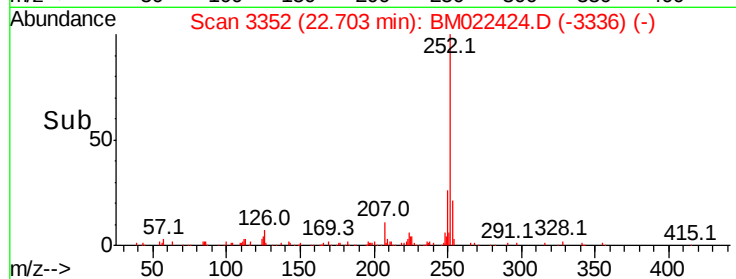
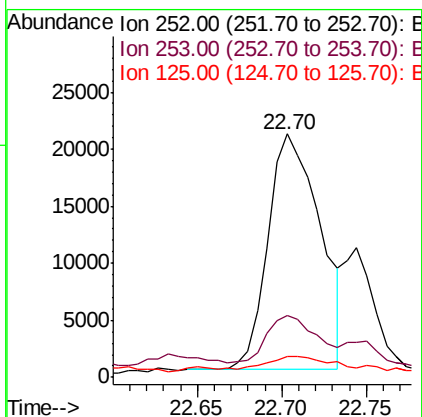
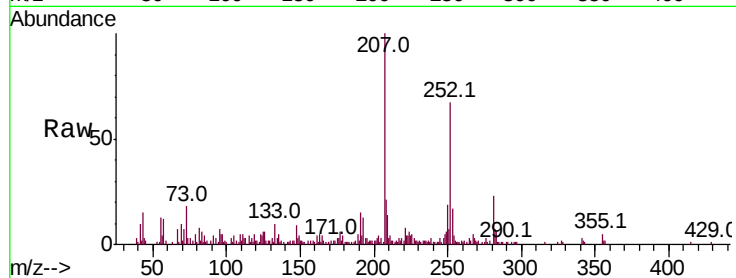




#88
Benzo(b)fluoranthene
Concen: 4.031 ng
RT: 22.70 min Scan# 3352
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

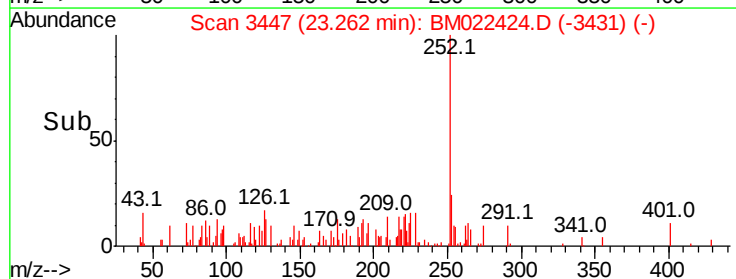
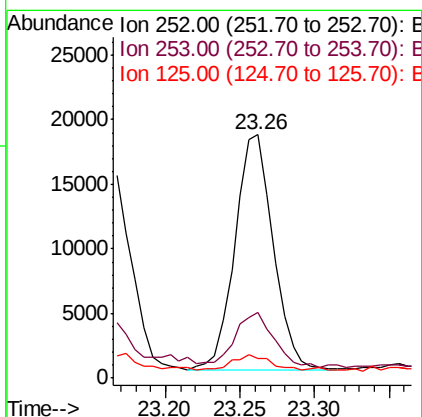
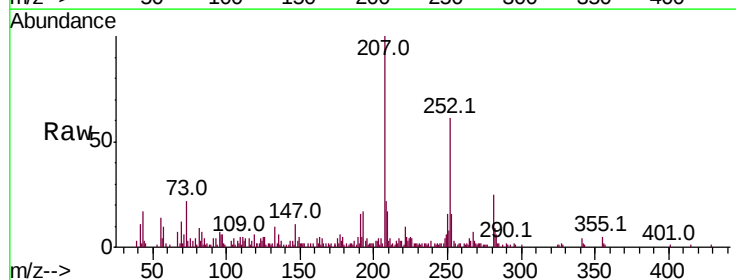
Instrument :
BNA_M
ClientSampleId :
S-4A-(1-3)

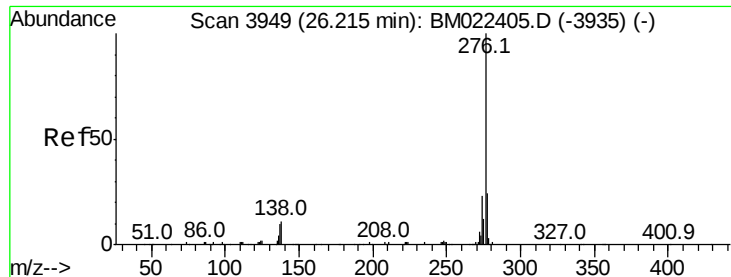
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.9	26.9
125	8.4	3.5	5.3#



#90
Benzo(a)pyrene
Concen: 3.301 ng
RT: 23.26 min Scan# 3447
Delta R.T. -0.01 min
Lab File: BM022424.D
Acq: 30 Aug 2019 01:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.8	18.2	27.2
125	8.0	3.8	5.8#





#92

Benzo(a,h,i)perylene

Concen: 3.273 ng

RT: 26.20 min Scan# 3947

Delta R.T. -0.01 min

Lab File: BM022424.D

Acq: 30 Aug 2019 01:02

Instrument :

BNA_M

ClientSampleId :

S-4A-(1-3)

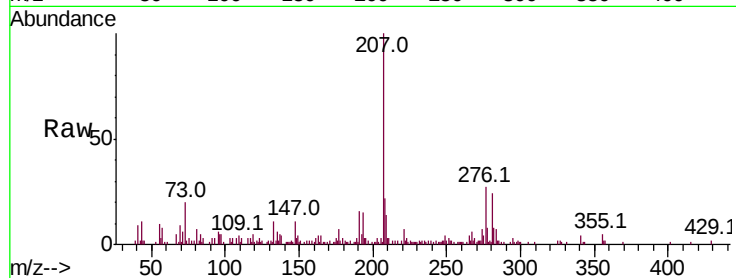
Tot Ion:276 Resp: 27843

Ion Ratio Lower Upper

276 100

277 27.6 19.4 29.0

138 16.4 8.8 13.2#



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

