

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082919\
 Data File : BM022430.D
 Acq On : 30 Aug 2019 04:40
 Operator : HP/JU
 Sample : K4594-01 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-0.0-0.5-082819

Manual Integrations
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 8/30/2019 10:30:11 AM

Quant Time: Aug 30 09:01:50 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	15789	20.00	ng	0.00
21) Naphthalene-d8	10.29	136	63063	20.00	ng	0.00
39) Acenaphthene-d10	14.18	164	41719	20.00	ng	0.00
64) Phenanthrene-d10	16.95	188	96502	20.00	ng	0.00
76) Chrysene-d12	21.17	240	174838	20.00	ng	0.00
87) Perylene-d12	23.36	264	157277	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	7670	8.53	ng	0.00
7) Phenol-d6	6.73	99	9718	8.08	ng	0.01
23) Nitrobenzene-d5	8.71	82	6700	4.65	ng	0.01
42) 2,4,6-Tribromophenol	15.70	330	5500	6.44	ng	0.00
45) 2-Fluorobiphenyl	12.79	172	18222	4.95	ng	0.00
79) Terphenyl-d14	19.60	244	41394	3.12	ng	0.00
Target Compounds						
31) Naphthalene	10.35	128	11205	3.416	ng	97
37) 2-Methylnaphthalene	11.97	142	5102	2.047	ng	94
52) Acenaphthene	14.24	154	61657	25.166	ng	98
55) Dibenzofuran	14.59	168	52543	12.731	ng	96
58) Fluorene	15.24	166	89095	24.163	ng	100
71) Phenanthrene	17.00	178	2163794	384.670	ng	100
72) Anthracene	17.09	178	413043	74.632	ng	99
73) Carbazole	17.37	167	156497	34.209	ng	99
75) Fluoranthene	19.04	202	6070545	810.381	ng	98
78) Pyrene	19.40	202	4335263	363.842	ng	99
81) Benzo(a)anthracene	21.16	228	2174129	173.248	ng	99
83) Chrysene	21.22	228	1917137	160.502	ng	97
86) Indeno(1,2,3-cd)pyrene	25.56	276	999300	83.173	ng	97
88) Benzo(b)fluoranthene	22.72	252	2562724	234.549	ng	99
89) Benzo(k)fluoranthene	22.76	252	715786m	66.038	ng	
90) Benzo(a)pyrene	23.27	252	1681139	173.348	ng	99
91) Dibenzo(a,h)anthracene	25.55	278	259653	26.850	ng	# 95
92) Benzo(g,h,i)perylene	26.23	276	945768	112.214	ng	98

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

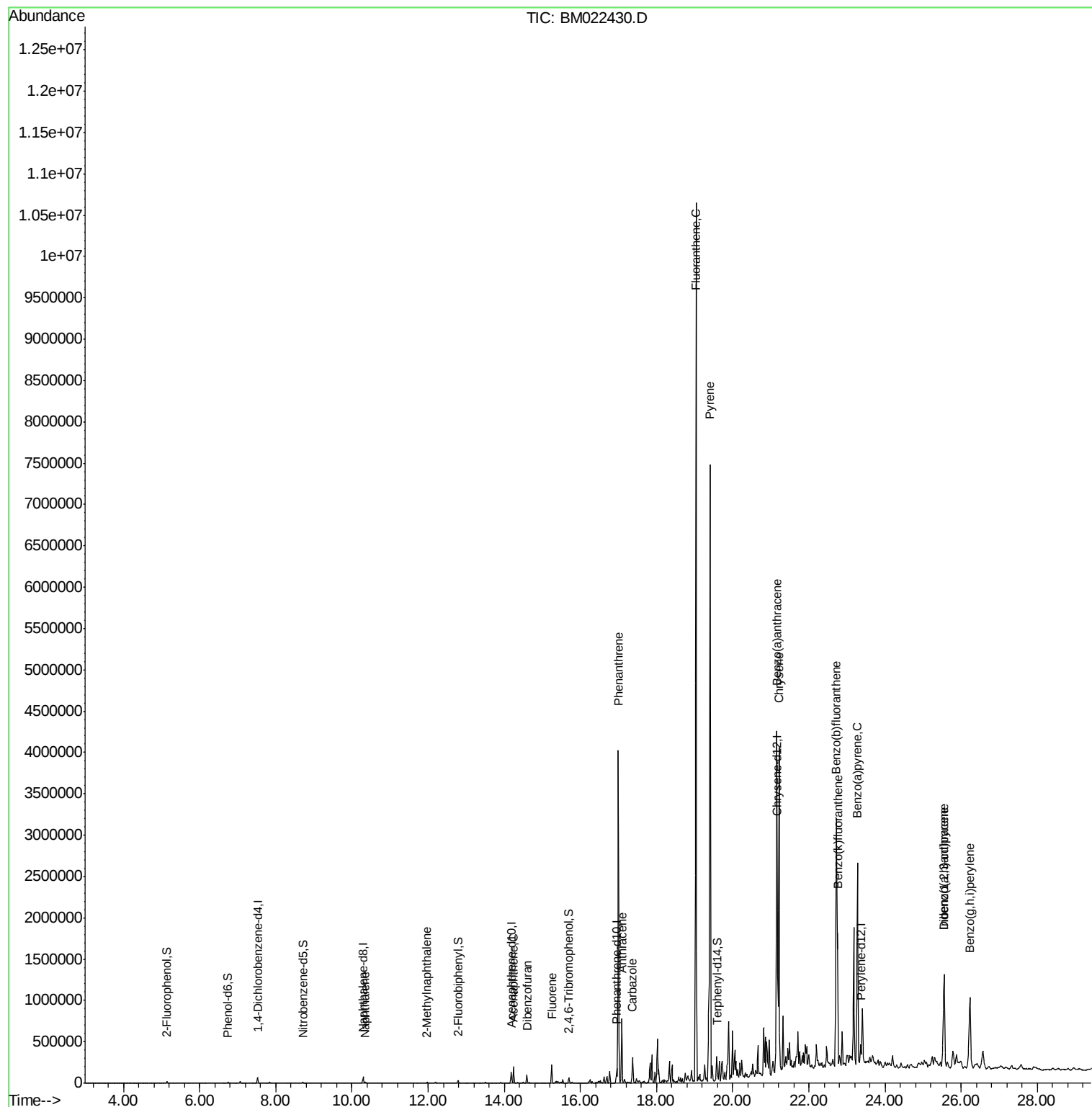
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082919\
Data File : BM022430.D
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ALS Vial : 20 Sample Multiplier: 1

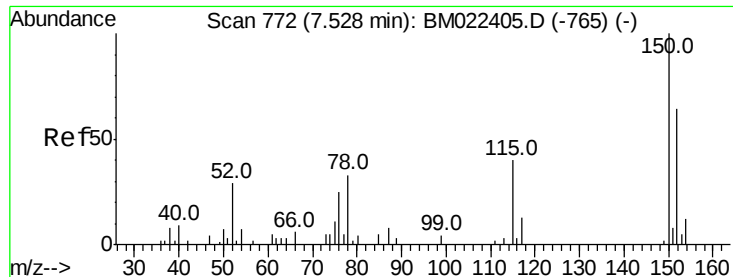
Instrument :
BNA_M
ClientSampleId :
S704A-N-0.0-0.5-082819

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Quant Time: Aug 30 09:01:50 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

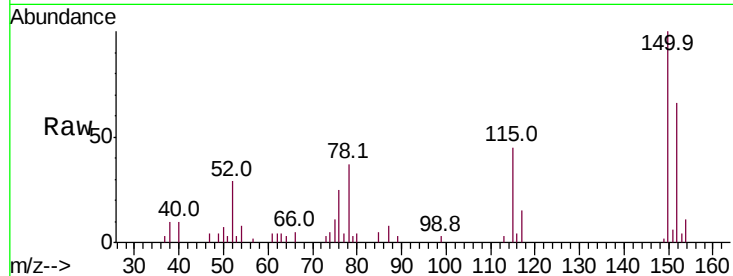
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 771
Delta R.T. -0.01 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Instrument :
BNA_M
ClientSampleId :
S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.5	125.4	188.0
115	67.1	50.3	75.5

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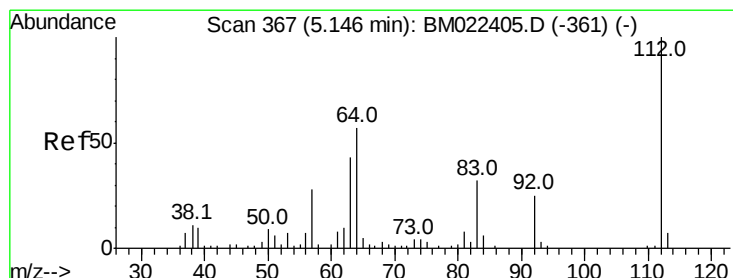
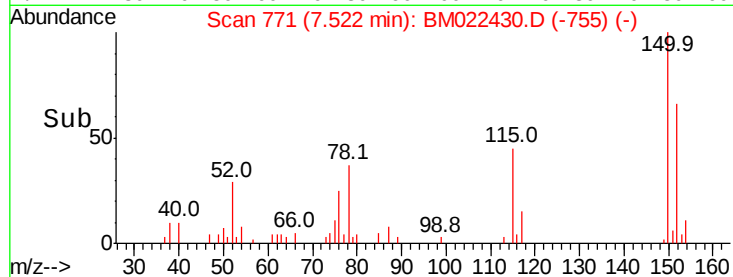
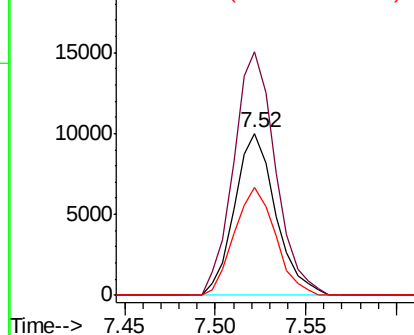


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

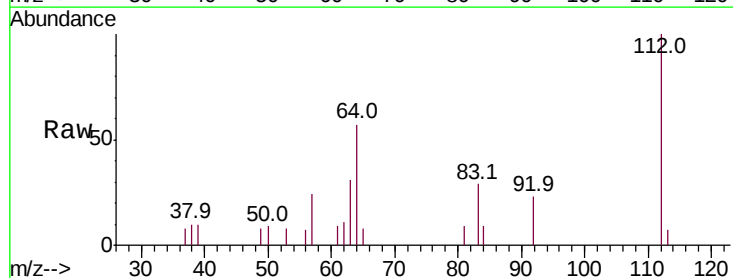
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 8.527 ng
RT: 5.15 min Scan# 367
Delta R.T. -0.00 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	45.4	68.2
63	30.7	34.5	51.7#

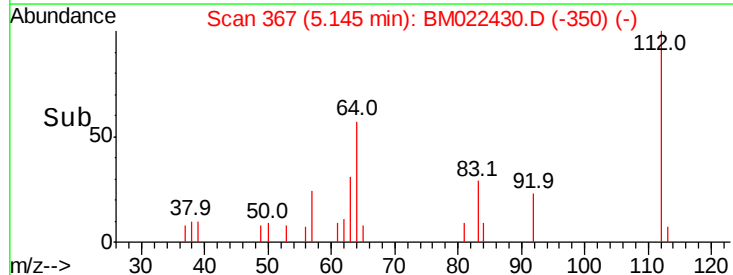
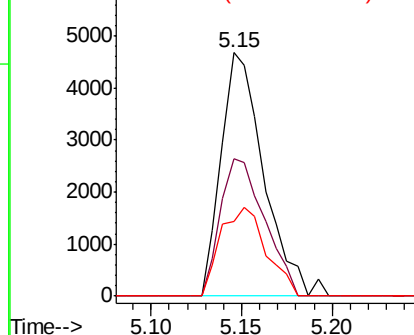


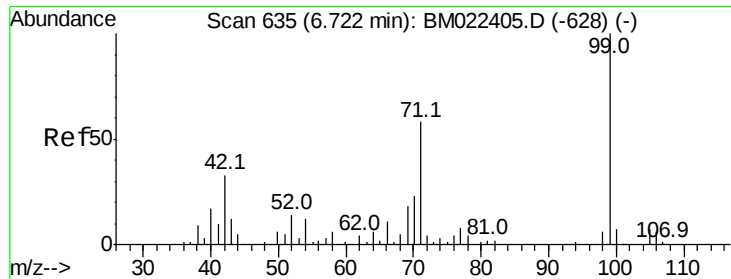
Abundance

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: 8.079 ng

RT: 6.73 min Scan# 637

Delta R.T. 0.01 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Instrument :

BNA_M

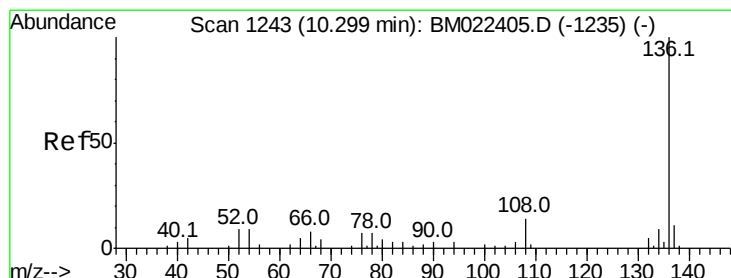
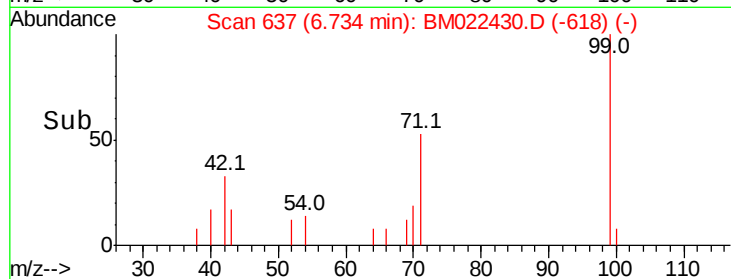
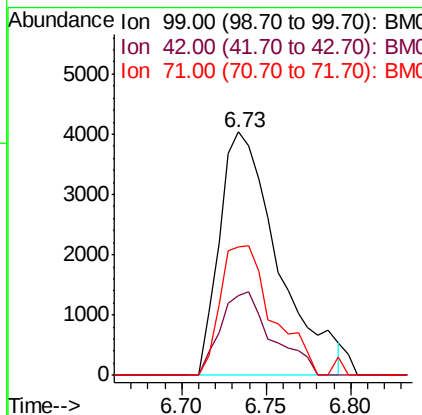
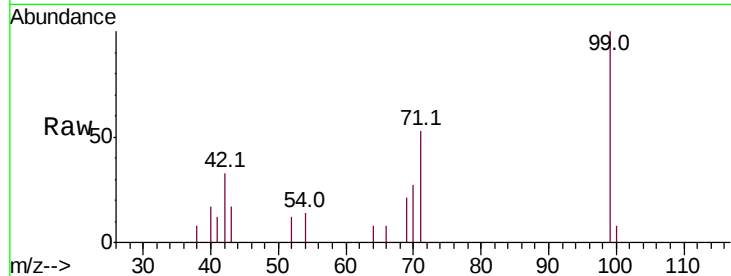
ClientSampleId :

S704A-N-0.0-0.5-082819

Tot Ion:	99	Resp:	9718
Ion Ratio	Lower	Upper	
99	100		
42	33.0	26.3	39.5
71	52.6	46.6	69.8

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#21

Naphthalene-d8

Concen: 20.000 ng

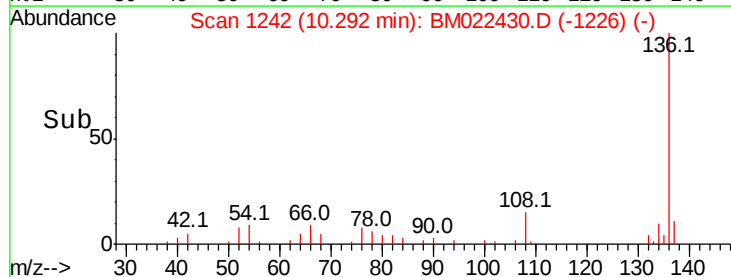
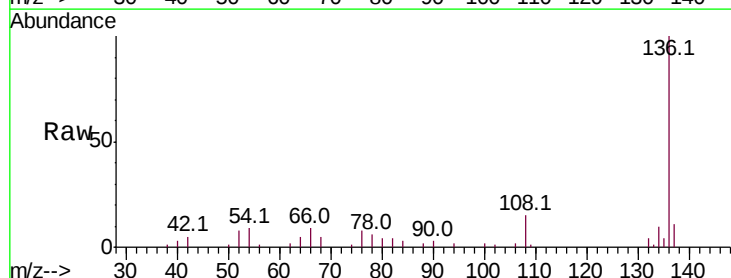
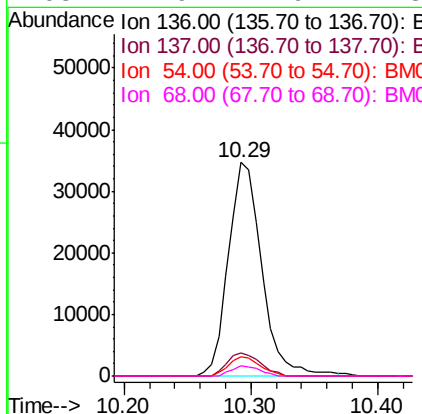
RT: 10.29 min Scan# 1242

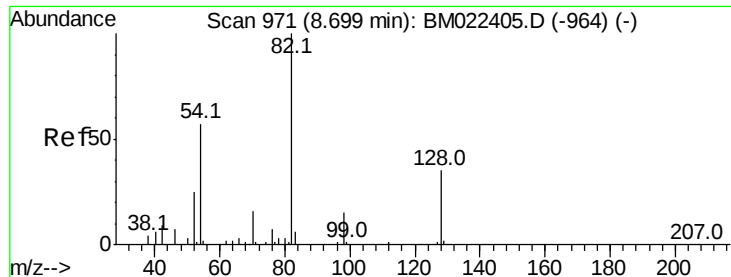
Delta R.T. -0.01 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Tgt Ion:	136	Resp:	63063
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.6	13.0
54	9.1	7.0	10.6
68	4.9	2.9	4.3#





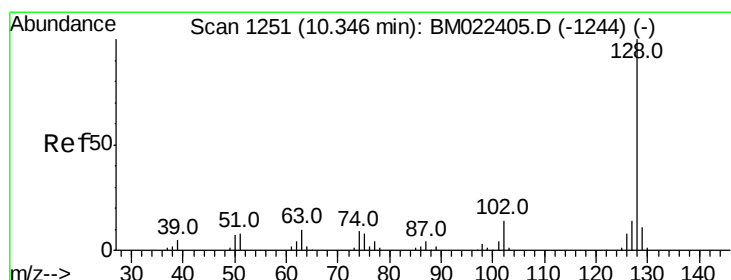
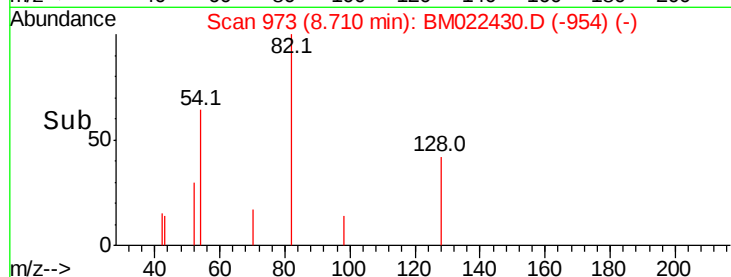
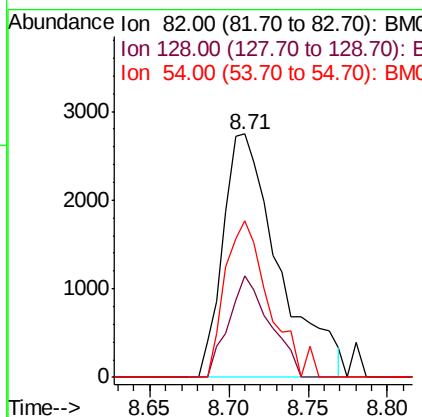
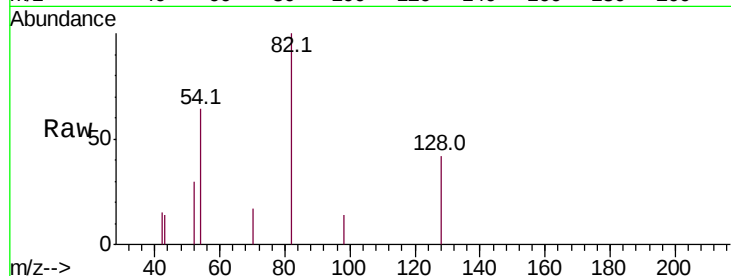
#23
Nitrobenzene-d5
Concen: 4.653 ng
RT: 8.71 min Scan# 973
Delta R.T. 0.01 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Instrument :
BNA_M
ClientSampleId :
S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.6	27.9	41.9
54	64.4	45.2	67.8

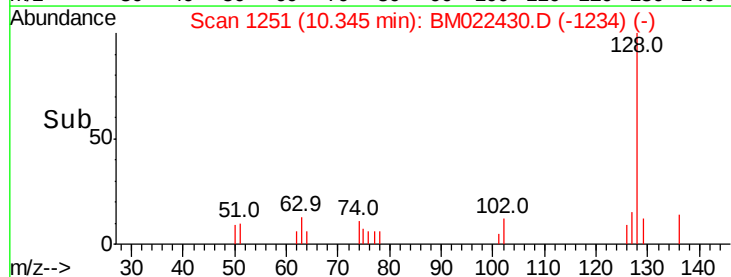
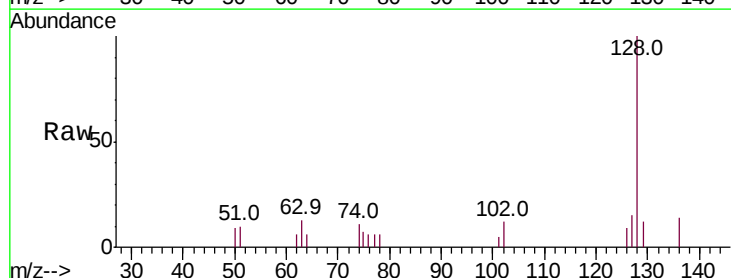
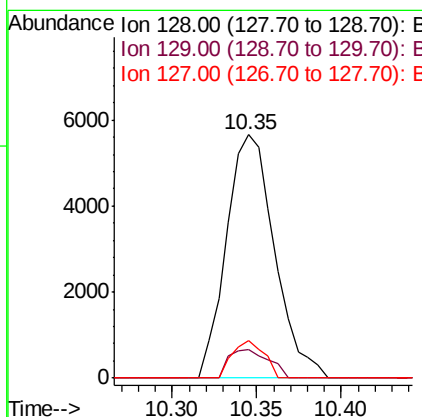
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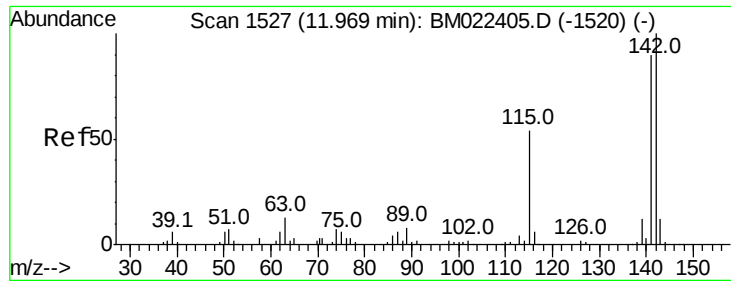
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#31
Naphthalene
Concen: 3.416 ng
RT: 10.35 min Scan# 1251
Delta R.T. -0.00 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.0	13.4
127	15.3	11.0	16.4





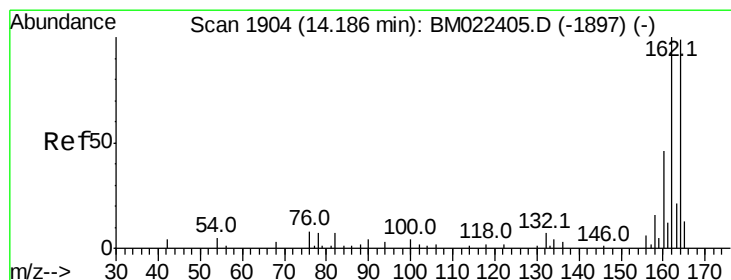
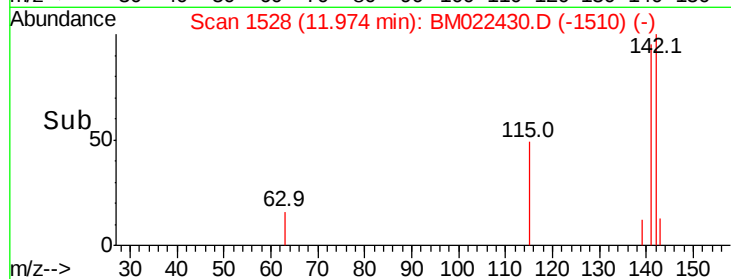
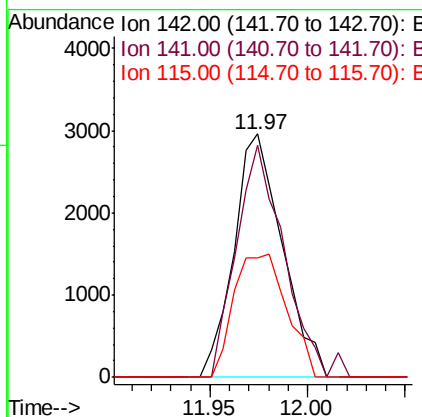
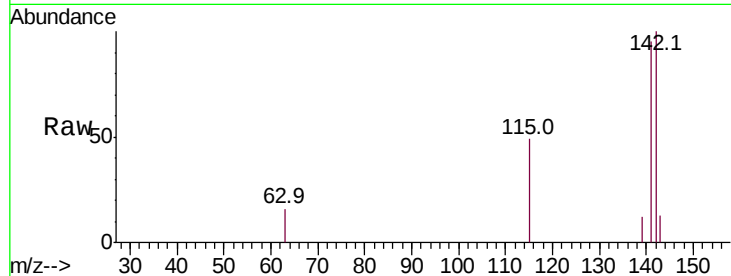
#37
 2-Methylnaphthalene
 Concen: 2.047 ng
 RT: 11.97 min Scan# 1528
 Delta R.T. 0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
142	100		
141	95.2	72.2	108.2
115	49.3	43.2	64.8

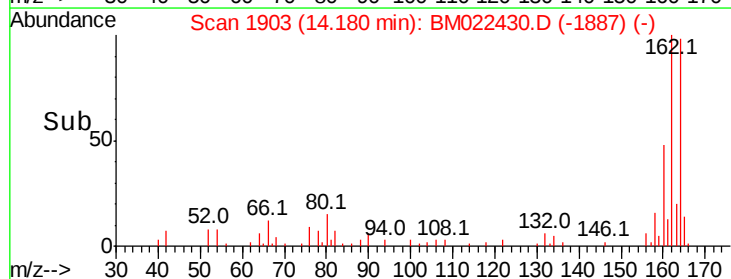
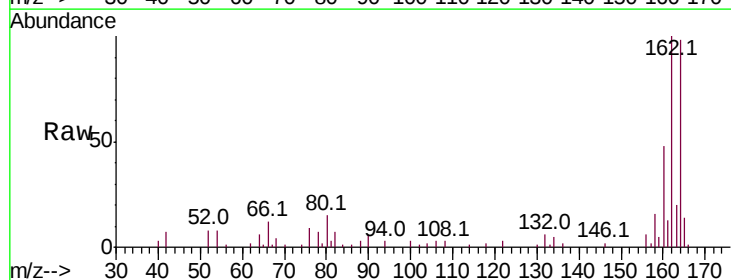
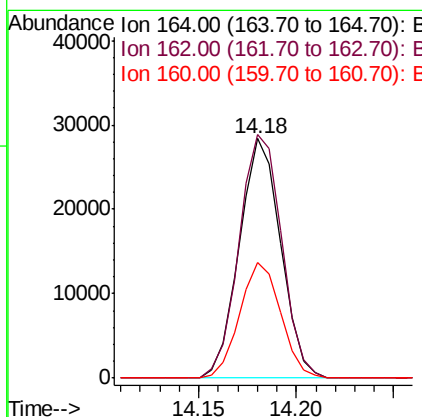
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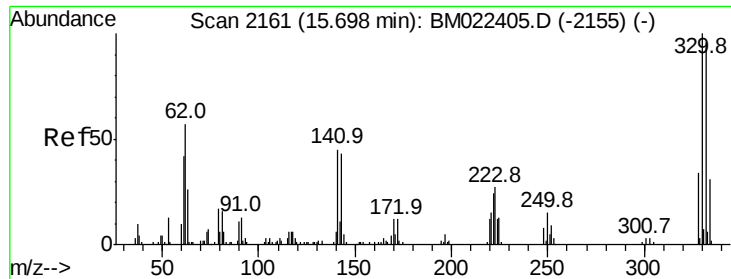
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.18 min Scan# 1903
 Delta R.T. -0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	121.0
160	48.4	37.3	55.9





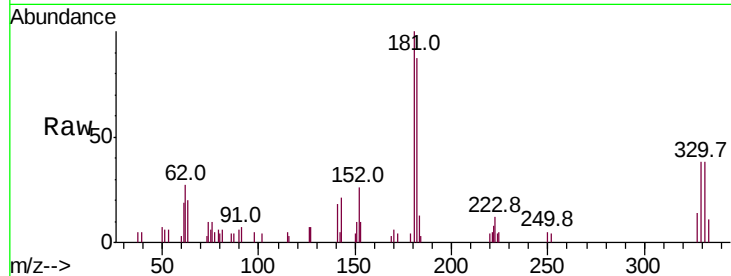
#42
 2,4,6-Tribromophenol
 Concen: 6.443 ng
 RT: 15.70 min Scan# 2161
 Delta R.T. -0.00 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-0.0-0.5-082819

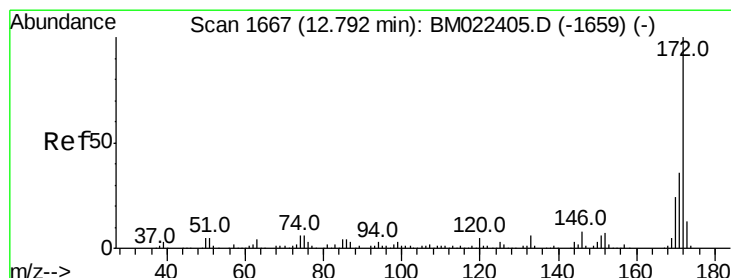
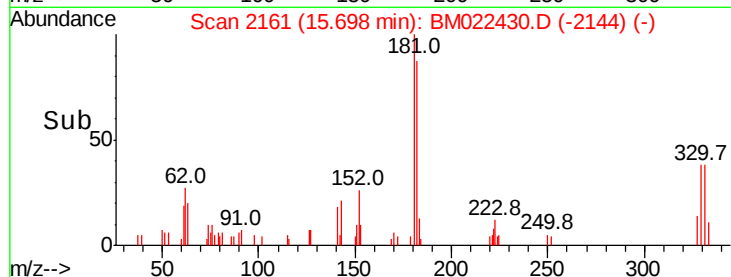
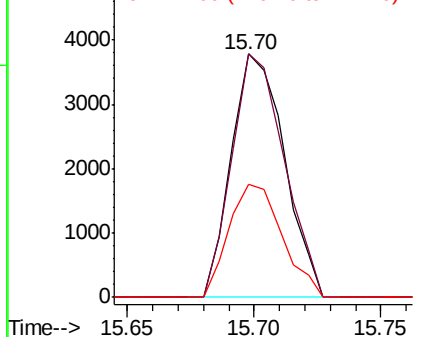
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.8	77.8	116.8
141	46.8	35.6	53.4

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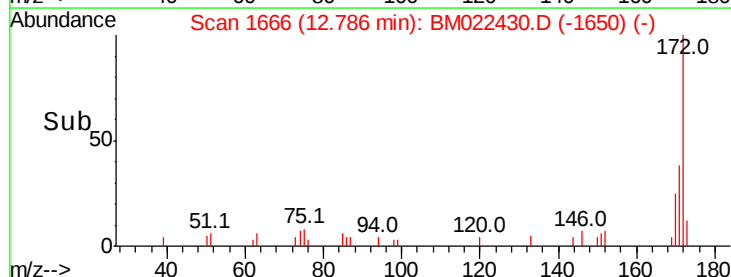
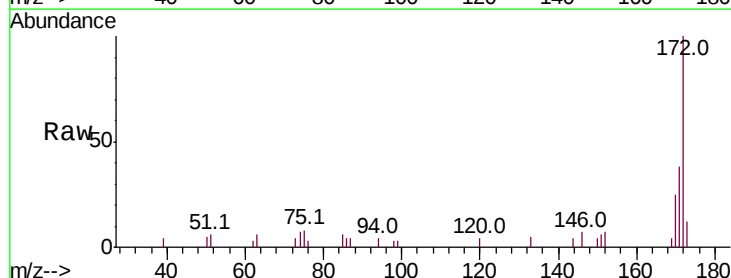
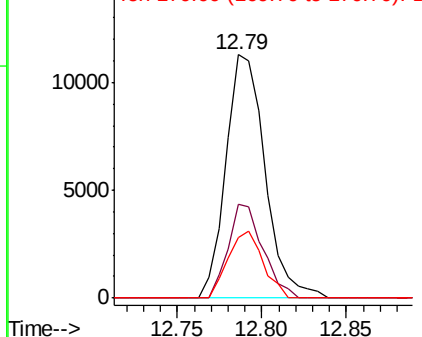
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

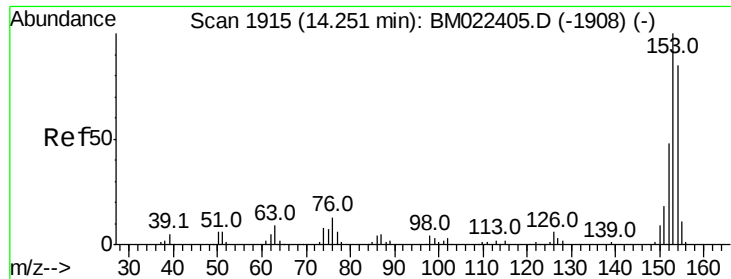


#45
 2-Fluorobiphenyl
 Concen: 4.948 ng
 RT: 12.79 min Scan# 1666
 Delta R.T. -0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.5	28.5	42.7
170	24.8	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





#52

Acenaphthene

Concen: 25.166 ng

RT: 14.24 min Scan# 1914

Delta R.T. -0.01 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Instrument :

BNA_M

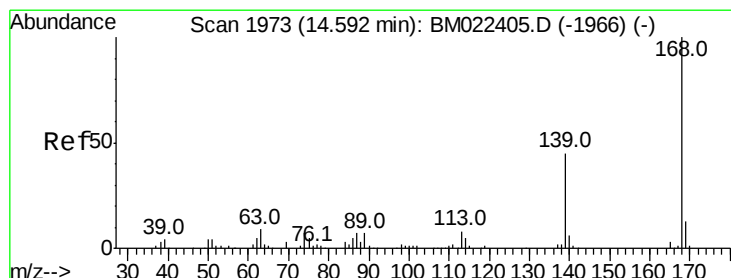
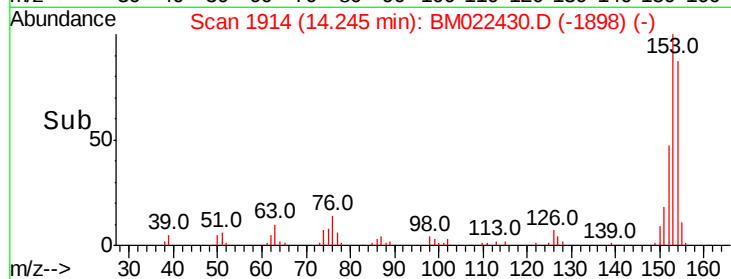
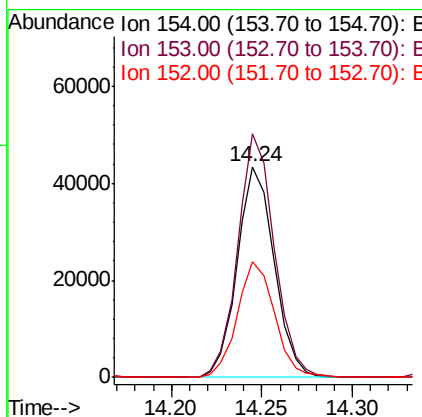
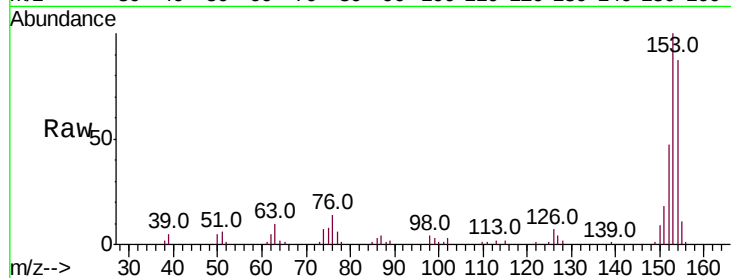
ClientSampleId :

S704A-N-0.0-0.5-082819

Tot Ion:154	Resp:	61657
Ion Ratio	Lower	Upper
154	100	
153	115.5	94.3 141.5
152	54.7	45.4 68.2

Manual Integrations
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#55

Dibenzofuran

Concen: 12.731 ng

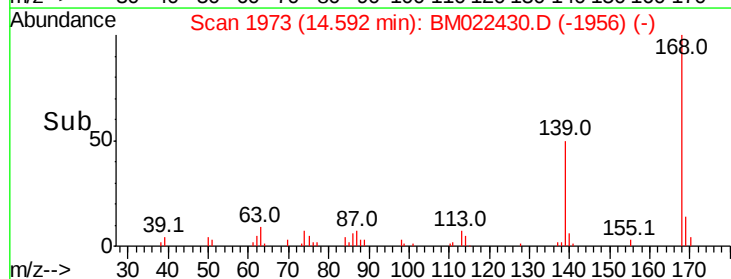
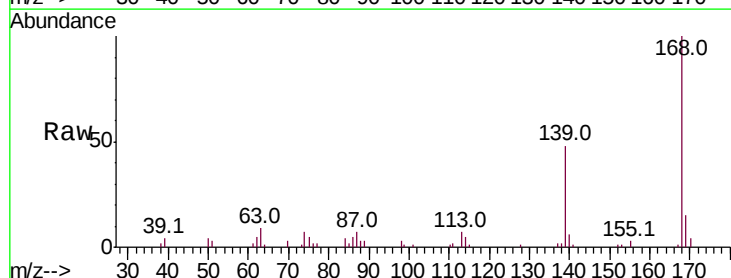
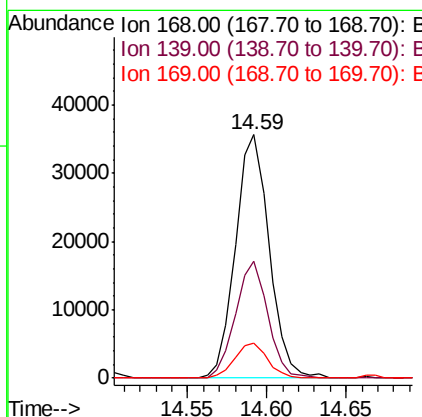
RT: 14.59 min Scan# 1973

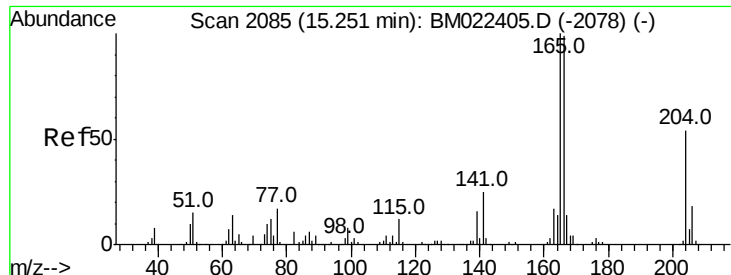
Delta R.T. -0.00 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Tgt Ion:168	Resp:	52543
Ion Ratio	Lower	Upper
168	100	
139	47.9	36.1 54.1
169	14.6	10.4 15.6





#58

Fluorene

Concen: 24.163 ng

RT: 15.24 min Scan# 2084

Delta R.T. -0.01 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Instrument :

BNA_M

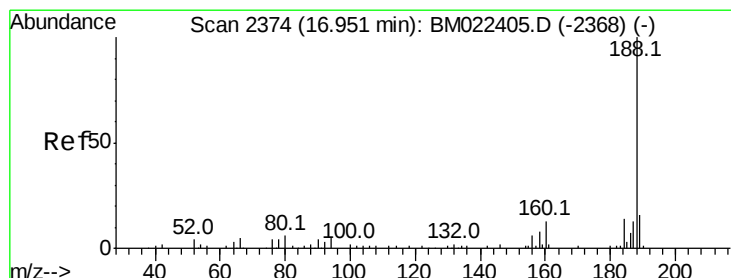
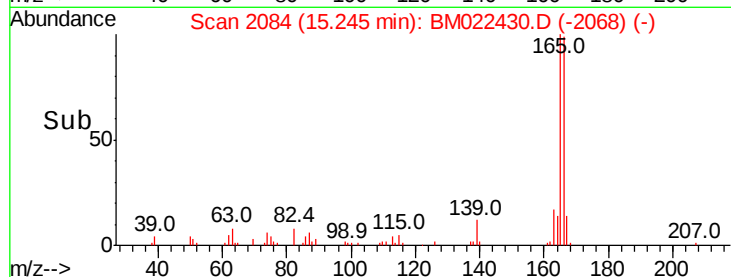
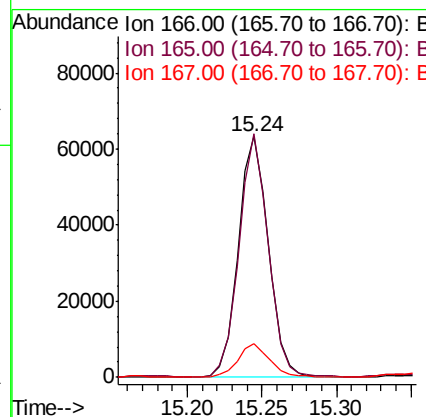
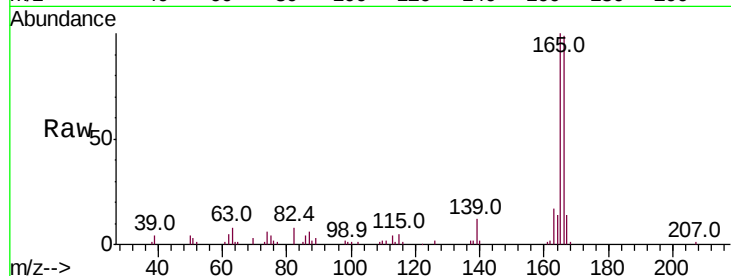
ClientSampleId :

S704A-N-0.0-0.5-082819

Tot Ion:	166	Resp:	89095
Ion Ratio	Lower	Upper	
166	100		
165	101.3	81.1	121.7
167	13.8	11.1	16.7

Manual Integrations
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#64

Phenanthrene-d10

Concen: 20.000 ng

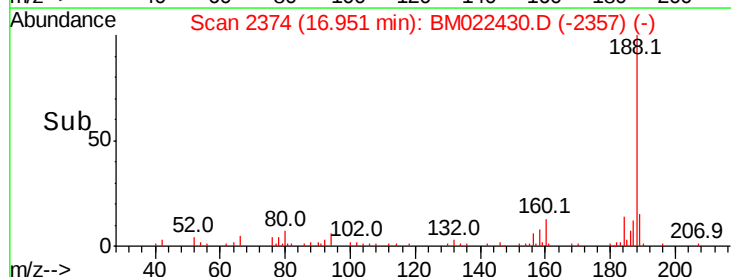
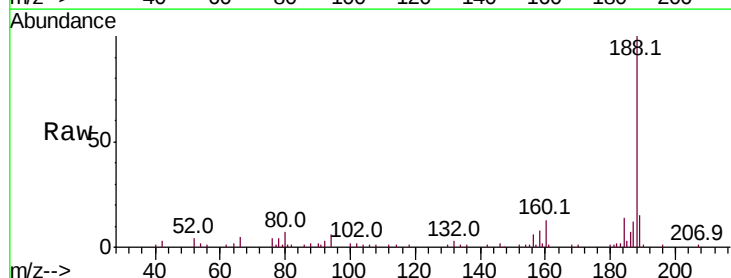
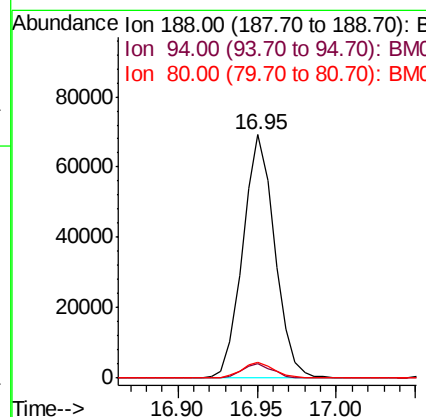
RT: 16.95 min Scan# 2374

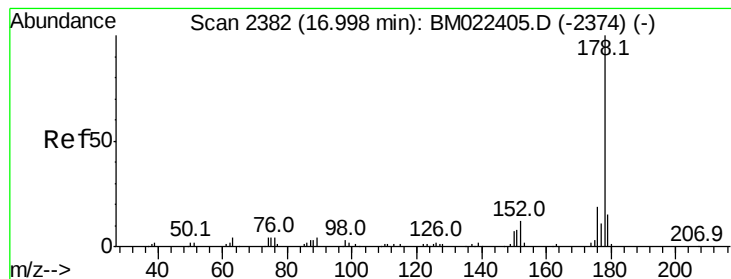
Delta R.T. -0.00 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Tgt Ion:	188	Resp:	96502
Ion Ratio	Lower	Upper	
188	100		
94	5.9	4.4	6.6
80	6.7	5.0	7.6





#71

Phenanthrene

Concen: 384.670 ng

RT: 17.00 min Scan# 2383

Delta R.T. 0.01 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Instrument :

BNA_M

ClientSampleId :

S704A-N-0.0-0.5-082819

Tot Ion:178 Resp: 2163794

Ion Ratio Lower Upper

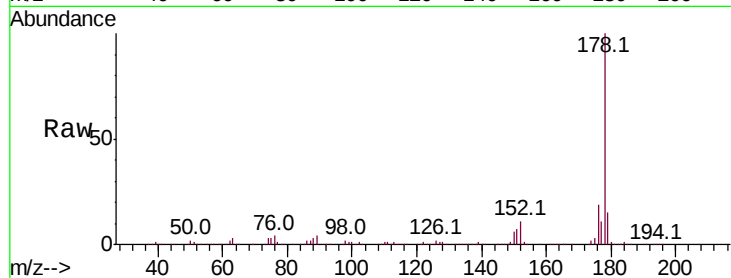
178 100

176 19.3 15.4 23.2

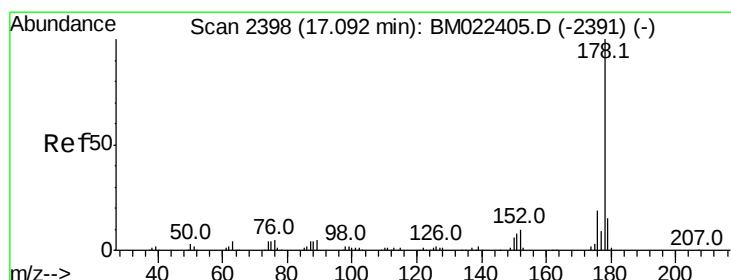
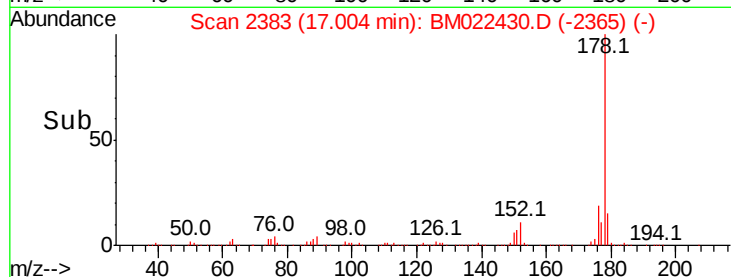
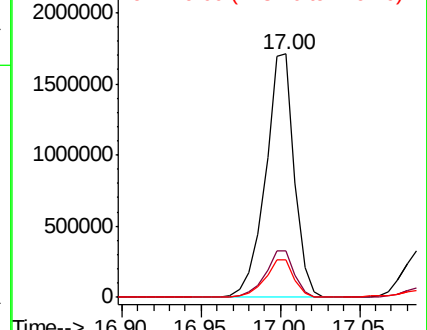
179 15.4 12.3 18.5

Manual Integrations
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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: 74.632 ng

RT: 17.09 min Scan# 2397

Delta R.T. -0.01 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

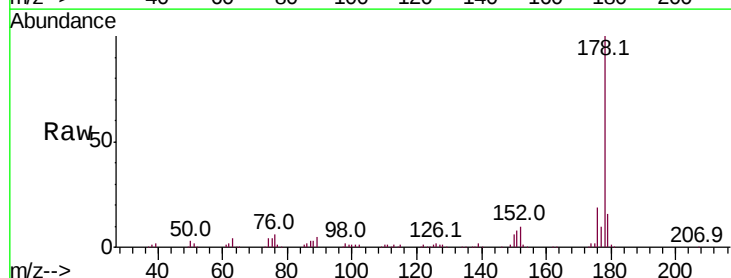
Tgt Ion:178 Resp: 413043

Ion Ratio Lower Upper

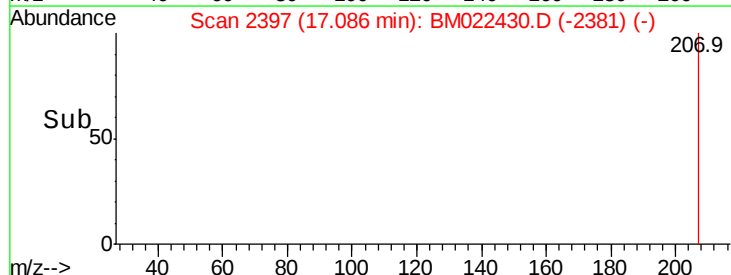
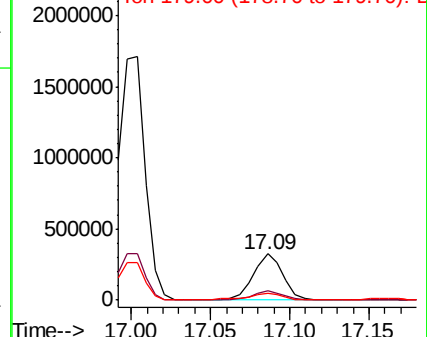
178 100

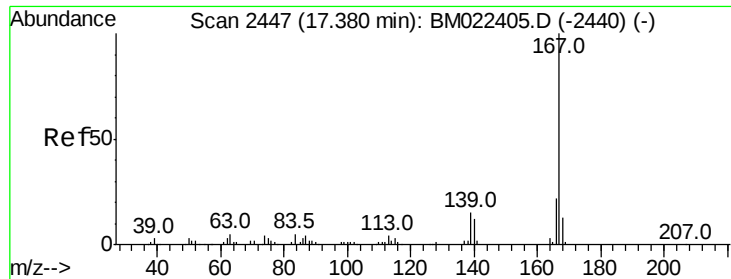
176 19.1 15.0 22.4

179 15.6 11.8 17.6



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





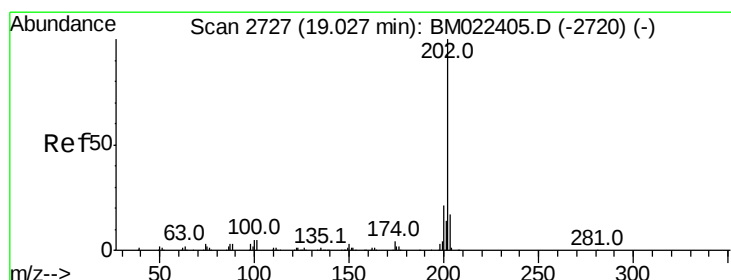
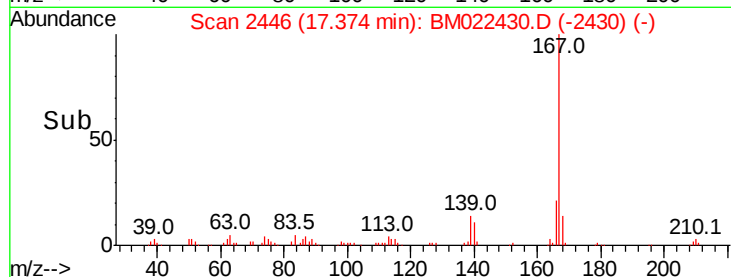
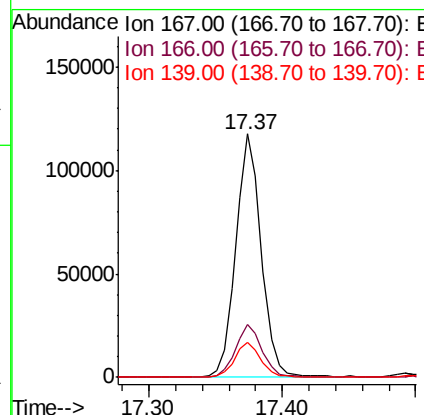
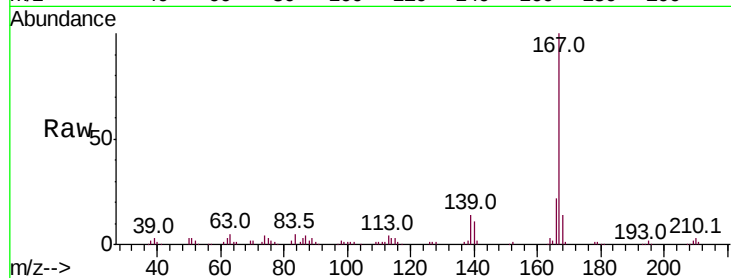
#73
 Carbazole
 Concen: 34.209 ng
 RT: 17.37 min Scan# 2446
 Delta R.T. -0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.8	26.6
139	14.2	11.6	17.4

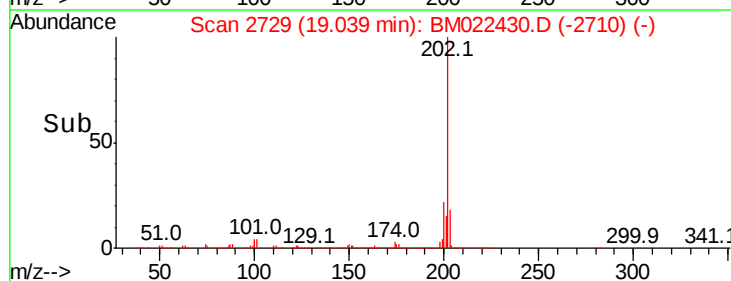
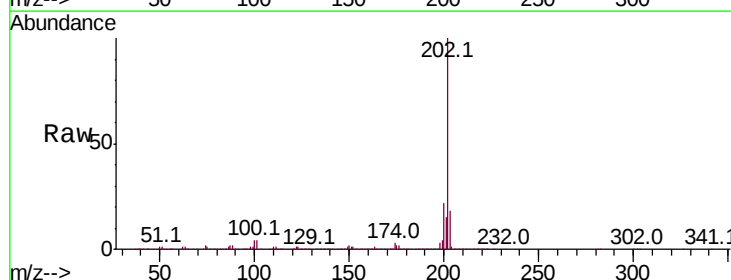
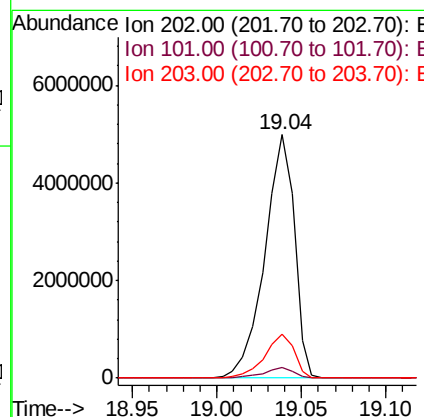
Manual Integrations
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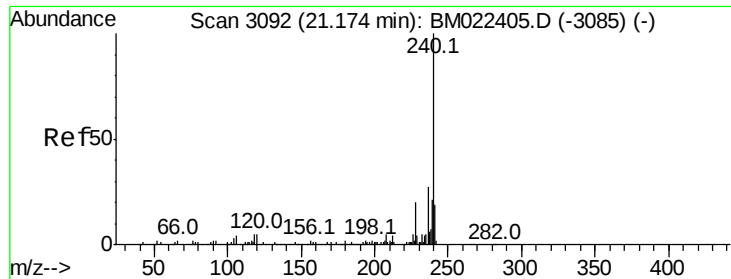
Jagrut
 8/30/2019 10:30:11 AM



#75
 Fluoranthene
 Concen: 810.381 ng
 RT: 19.04 min Scan# 2729
 Delta R.T. 0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
202	100		
101	4.3	0.0	25.1
203	18.2	0.0	37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.17 min Scan# 3092

Delta R.T. -0.00 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Instrument :

BNA_M

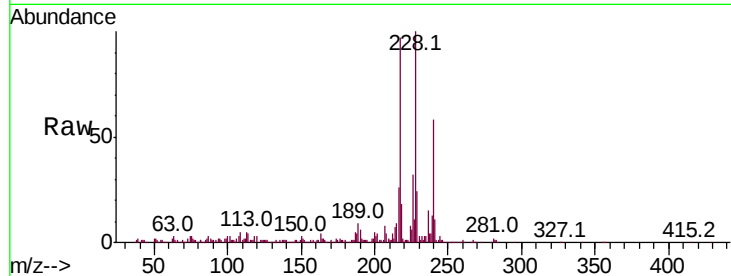
ClientSampleId :

S704A-N-0.0-0.5-082819

Tot Ion:	240	Resp:	174838
Ion Ratio	Lower	Upper	
240	100		
120	4.8	3.9	5.9
236	26.5	21.4	32.2

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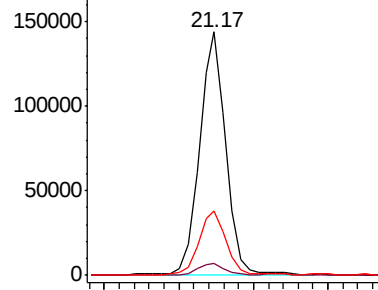


Abundance

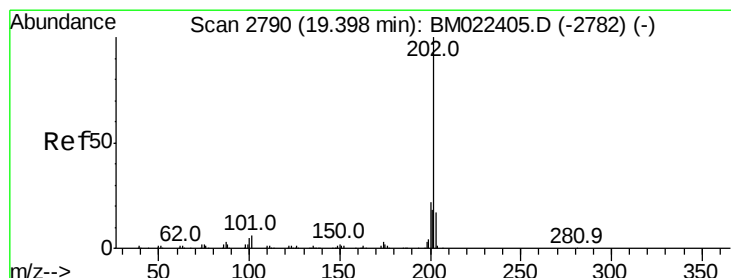
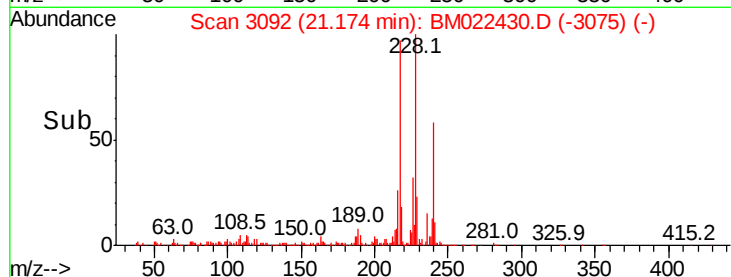
Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#78

Pyrene

Concen: 363.842 ng

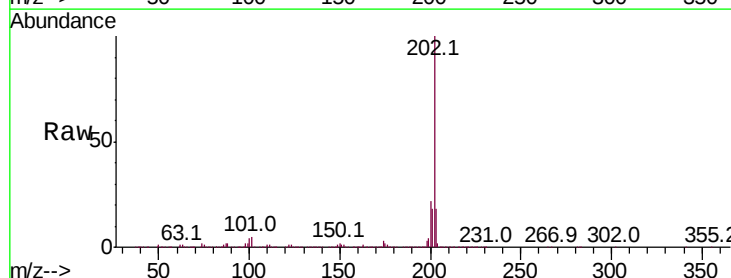
RT: 19.40 min Scan# 2791

Delta R.T. 0.01 min

Lab File: BM022430.D

Acq: 30 Aug 2019 04:40

Tgt Ion:	202	Resp:	4335263
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.7	26.5
203	18.4	13.8	20.8

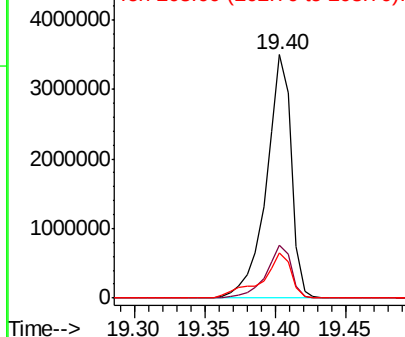


Abundance

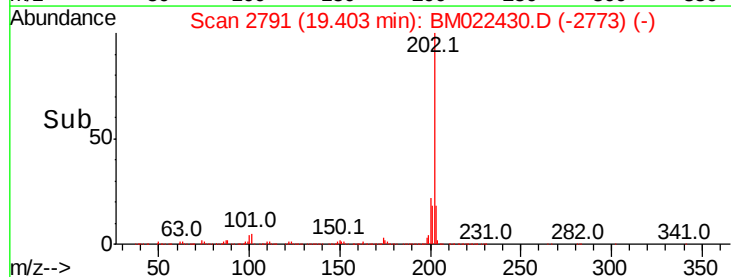
Ion 202.00 (201.70 to 202.70): E

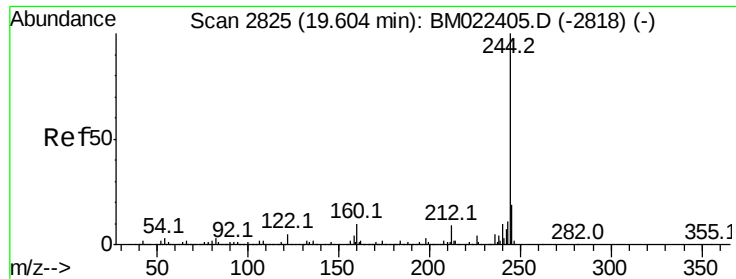
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





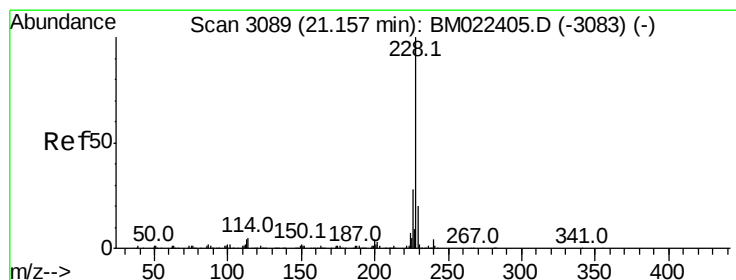
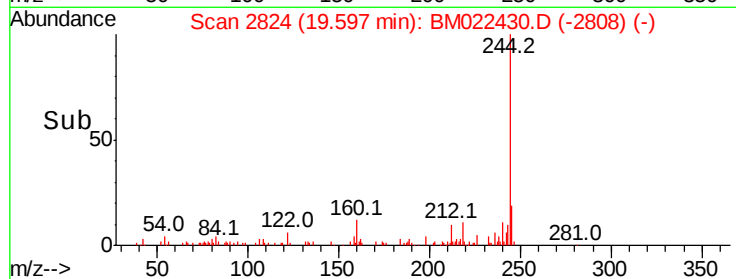
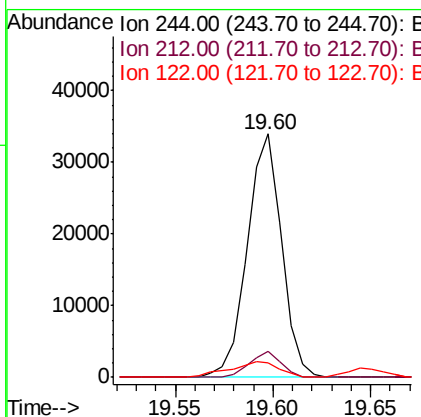
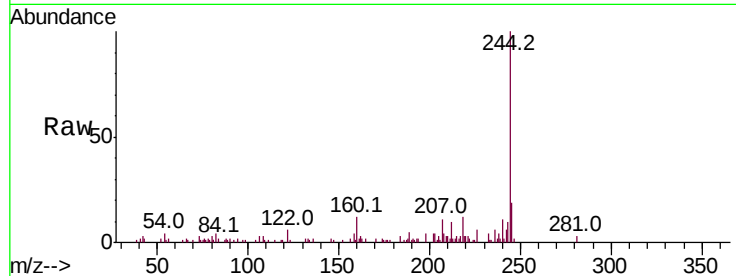
#79
 Terphenyl-d14
 Concen: 3.125 ng
 RT: 19.60 min Scan# 2824
 Delta R.T. -0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.5	7.0	10.4#
122	5.8	3.9	5.9

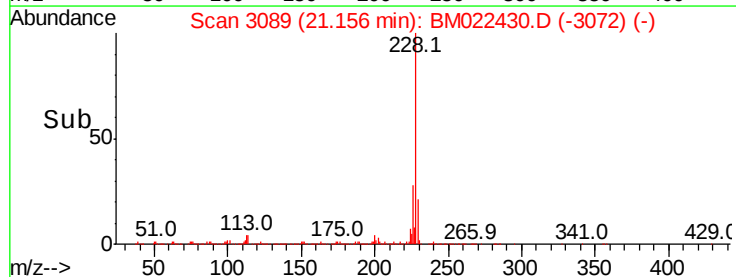
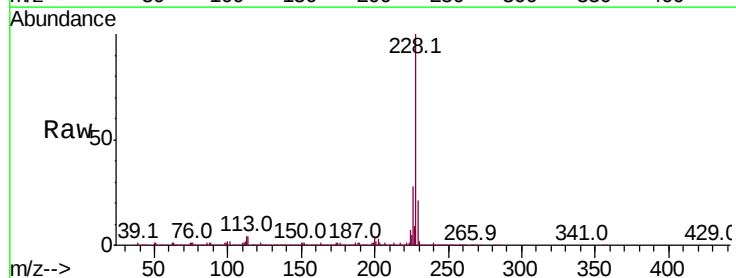
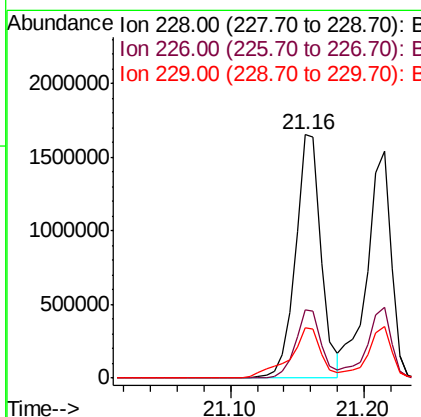
Manual Integrations
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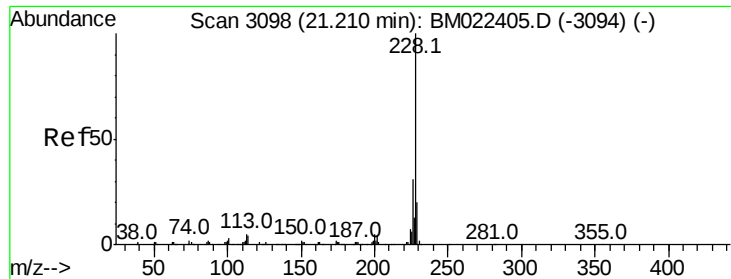
Jagrut
 8/30/2019 10:30:11 AM



#81
 Benzo(a)anthracene
 Concen: 173.248 ng
 RT: 21.16 min Scan# 3089
 Delta R.T. -0.00 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	34.0
229	20.7	15.9	23.9





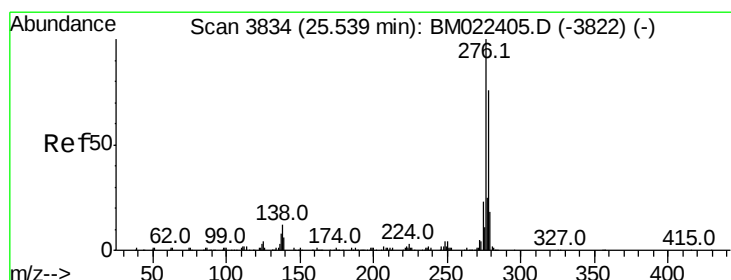
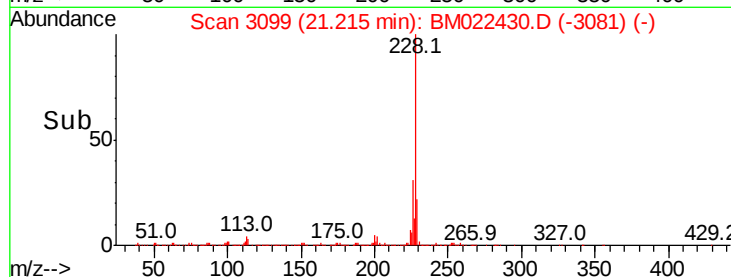
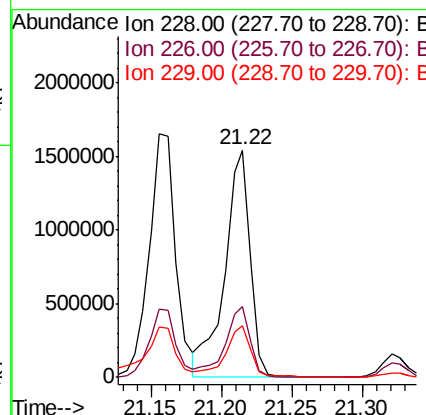
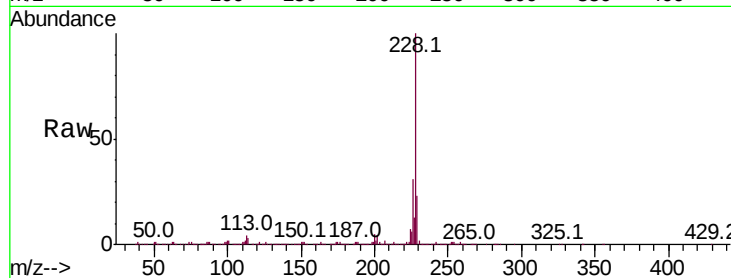
#83
Chrysene
Concen: 160.502 ng
RT: 21.22 min Scan# 3099
Delta R.T. 0.01 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Instrument :
BNA_M
ClientSampleId :
S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	22.5	15.7	23.5

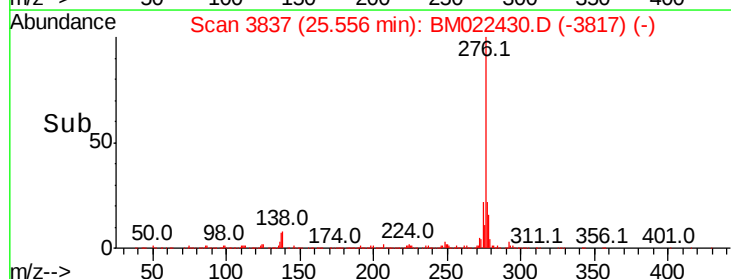
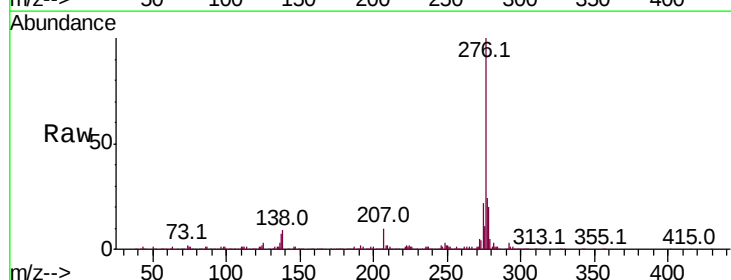
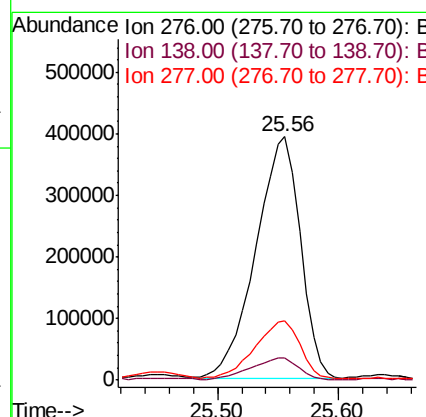
Manual Integrations
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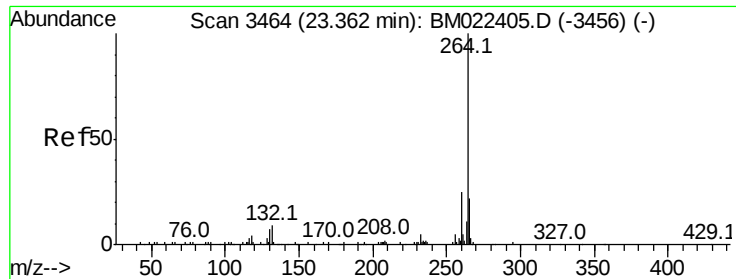
Jagrut
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#86
Indeno(1,2,3-cd)pyrene
Concen: 83.173 ng
RT: 25.56 min Scan# 3837
Delta R.T. 0.02 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	9.6	9.1	13.7
277	24.2	20.0	30.0





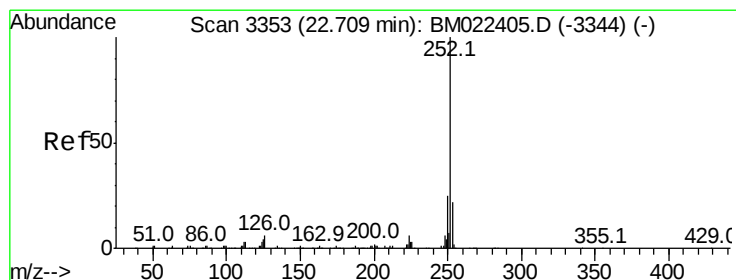
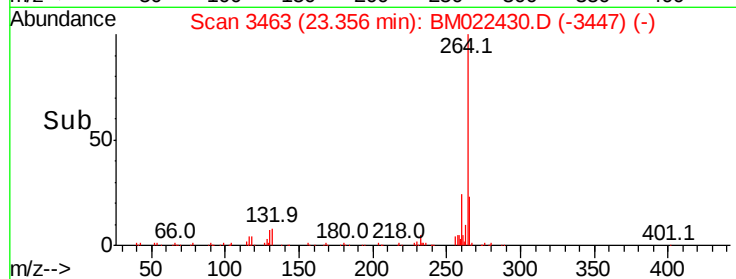
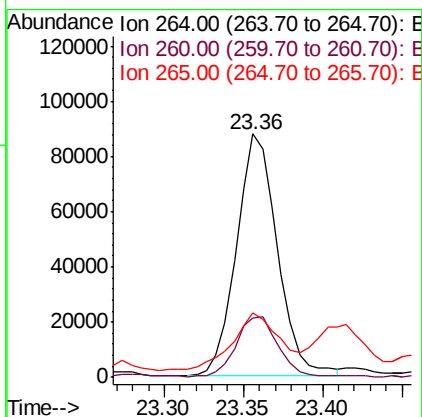
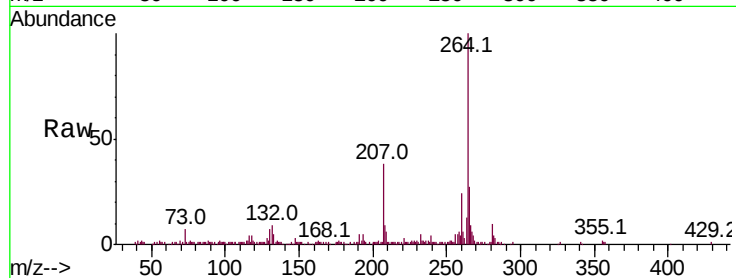
#87
 Pervlene-d12
 Concen: 20.000 ng
 RT: 23.36 min Scan# 3463
 Delta R.T. -0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	20.2	30.2
265	26.5	18.2	27.2

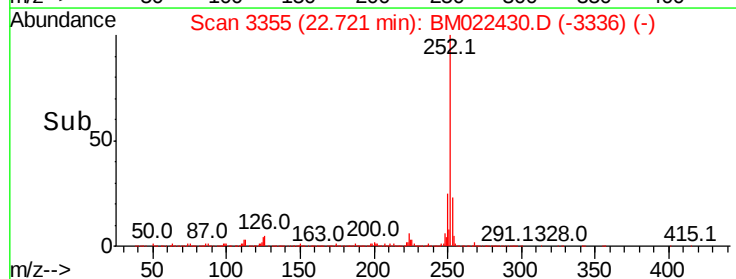
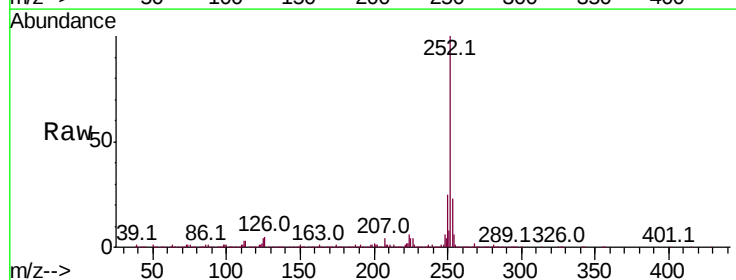
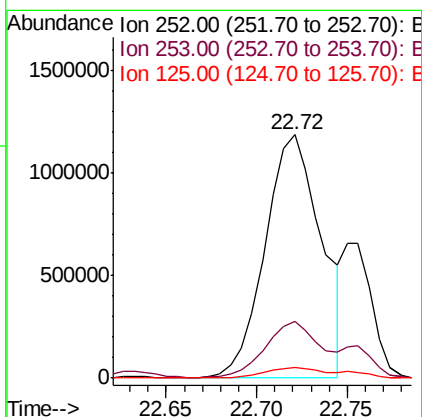
Manual Integrations
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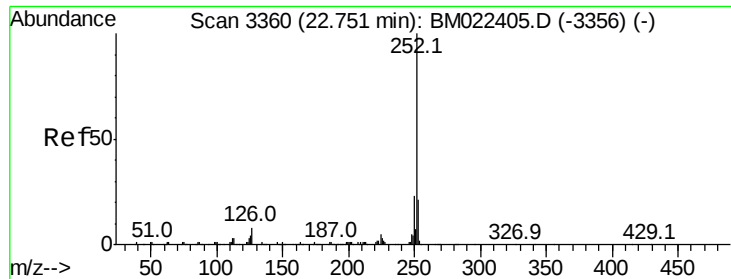
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#88
 Benzo(b)fluoranthene
 Concen: 234.549 ng
 RT: 22.72 min Scan# 3355
 Delta R.T. 0.01 min
 Lab File: BM022430.D
 Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	4.2	3.5	5.3





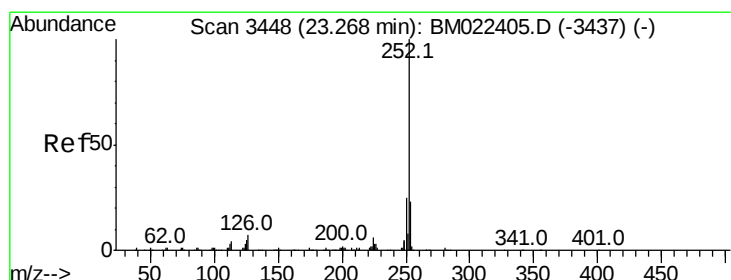
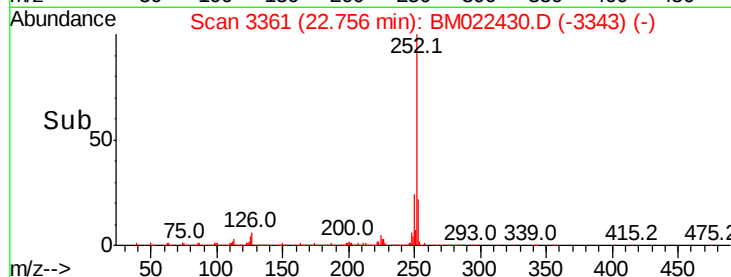
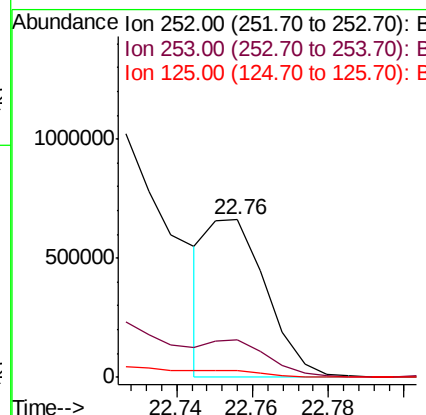
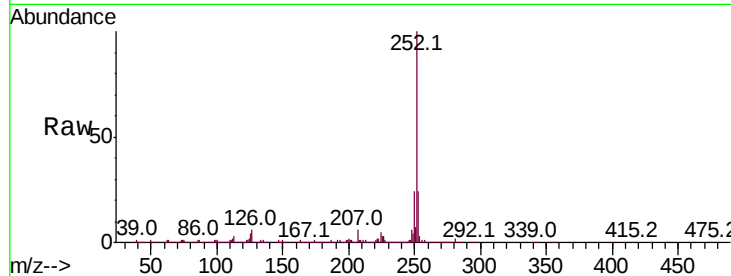
#89
Benzo(k)fluoranthene
Concen: 66.038 ng m
RT: 22.76 min Scan# 3361
Delta R.T. 0.01 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Instrument :
BNA_M
ClientSampleId :
S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.4
125	4.1	3.7	5.5

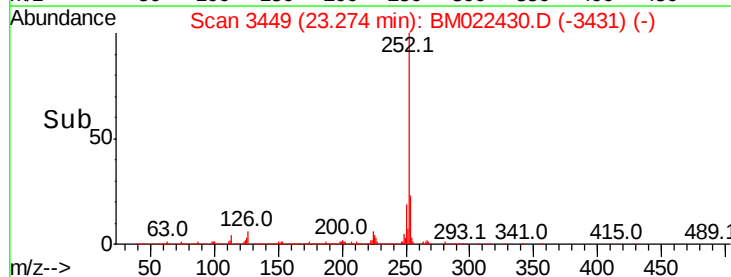
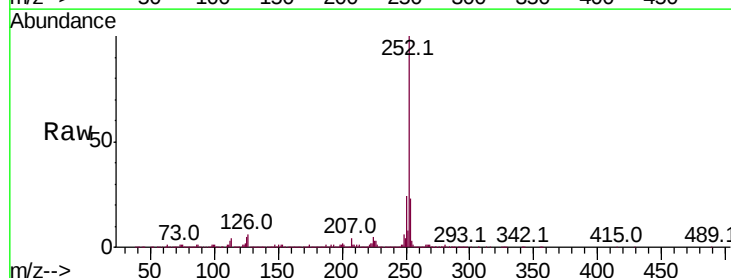
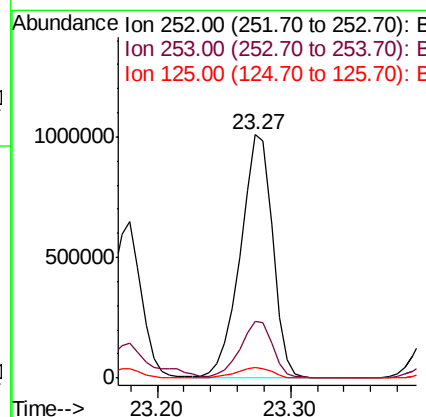
Manual Integrations
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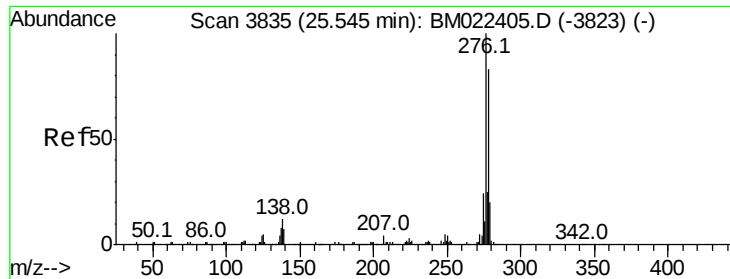
Jagrut
8/30/2019 10:30:11 AM



#90
Benzo(a)pyrene
Concen: 173.348 ng
RT: 23.27 min Scan# 3449
Delta R.T. 0.01 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.2
125	4.6	3.8	5.8





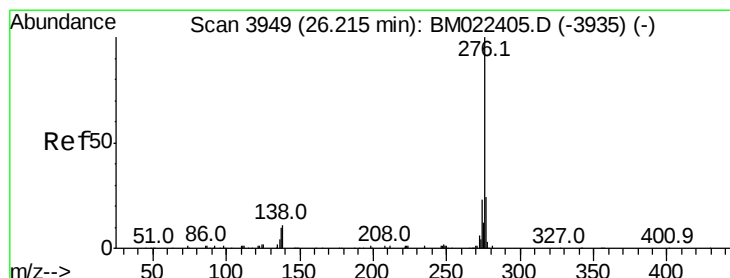
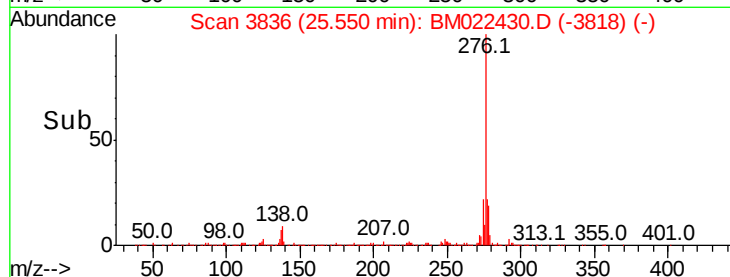
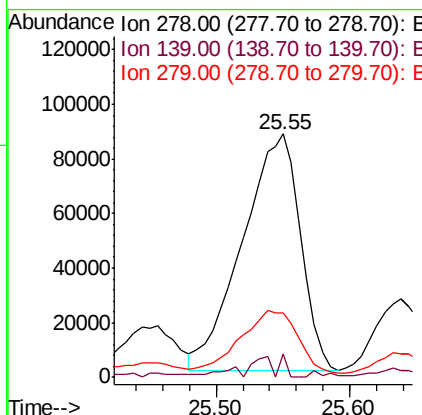
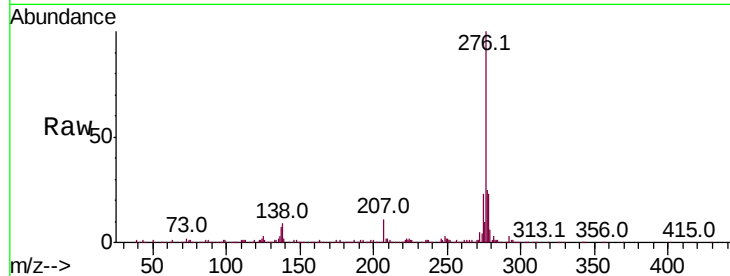
#91
Dibenzo(a,h)anthracene
Concen: 26.850 ng
RT: 25.55 min Scan# 3836
Delta R.T. 0.01 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Instrument :
BNA_M
ClientSampleId :
S704A-N-0.0-0.5-082819

Tot Ion	Ratio	Lower	Upper
278	100		
139	9.9	6.6	9.8#
279	26.3	19.3	28.9

Manual Integrations
APPROVED

Jagrut
8/30/2019 10:30:11 AM



#92
Benzo(g,h,i)perylene
Concen: 112.214 ng
RT: 26.23 min Scan# 3951
Delta R.T. 0.01 min
Lab File: BM022430.D
Acq: 30 Aug 2019 04:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.4	29.0
138	10.3	8.8	13.2

