

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020320\
 Data File : BM024702.D
 Acq On : 03 Feb 2020 16:59
 Operator : CG/JU
 Sample : L1351-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TAL-1

Manual Integrations
 APPROVED

mohammad
 2/4/2020 6:12:30 PM

Quant Time: Feb 04 03:43:28 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 23 14:57:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	223669	20.00	ng	-0.02
21) Naphthalene-d8	10.18	136	822309	20.00	ng	-0.02
39) Acenaphthene-d10	14.07	164	546180	20.00	ng	-0.02
64) Phenanthrene-d10	16.83	188	1215334	20.00	ng	-0.02
76) Chrysene-d12	21.04	240	1279049	20.00	ng	-0.02
87) Perylene-d12	23.16	264	1508961	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	1047631	89.08	ng	-0.01
7) Phenol-d6	6.62	99	1303036	80.43	ng	-0.02
23) Nitrobenzene-d5	8.56	82	841060	50.16	ng	-0.02
42) 2,4,6-Tribromophenol	15.57	330	803187	90.40	ng	-0.02
45) 2-Fluorobiphenyl	12.69	172	2057646	51.22	ng	-0.02
79) Terphenyl-d14	19.49	244	3638693	53.11	ng	-0.02
Target Compounds						
52) Acenaphthene	14.14	154	200108	6.456	ng	Qvalue 99
55) Dibenzofuran	14.47	168	141471	2.798	ng	94
58) Fluorene	15.13	166	200271	4.714	ng	99
71) Phenanthrene	16.87	178	2815468	42.780	ng	99
72) Anthracene	16.96	178	764440	11.871	ng	99
73) Carbazole	17.23	167	384638	6.561	ng	99
75) Fluoranthene	18.90	202	4874482	59.343	ng	99
78) Pyrene	19.26	202	3979474	47.195	ng	99
80) Butylbenzylphthalate	20.20	149	409253	11.567	ng	94
81) Benzo(a)anthracene	21.03	228	2378083	26.788	ng	98
83) Chrysene	21.08	228	2090995	24.685	ng	98
86) Indeno(1,2,3-cd)pyrene	25.21	276	1280846	13.873	ng	97
88) Benzo(b)fluoranthene	22.54	252	2827651m	28.893	ng	
89) Benzo(k)fluoranthene	22.57	252	946970m	9.913	ng	
90) Benzo(a)pyrene	23.06	252	1916329	21.537	ng	# 95
91) Dibenzo(a,h)anthracene	25.23	278	332162	3.933	ng	# 94
92) Benzo(a,h,i)perylene	25.84	276	1189929	15.517	ng	99

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

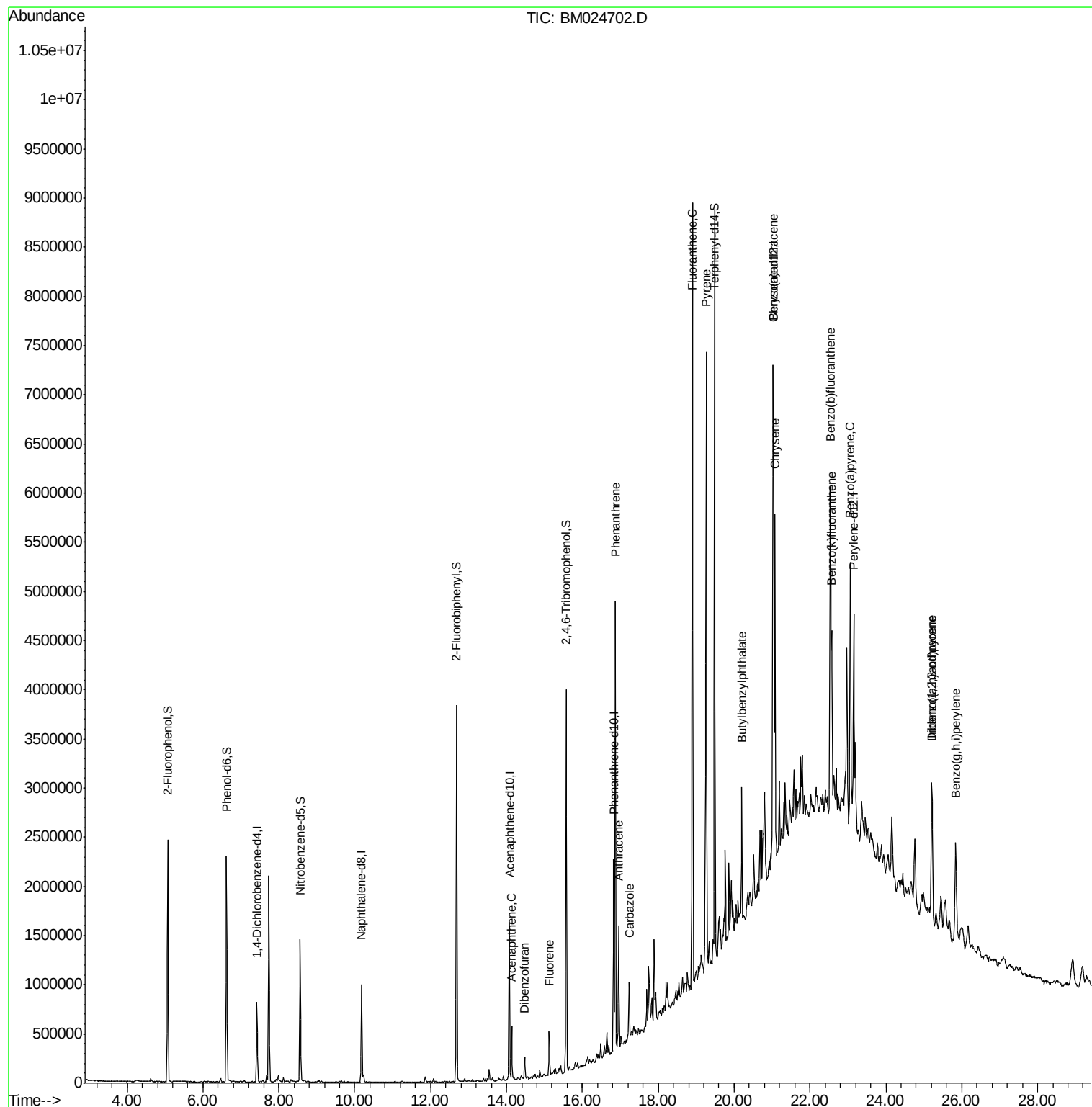
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020320\
Data File : BM024702.D
Acq On : 03 Feb 2020 16:59
Operator : CG/JU
Sample : L1351-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

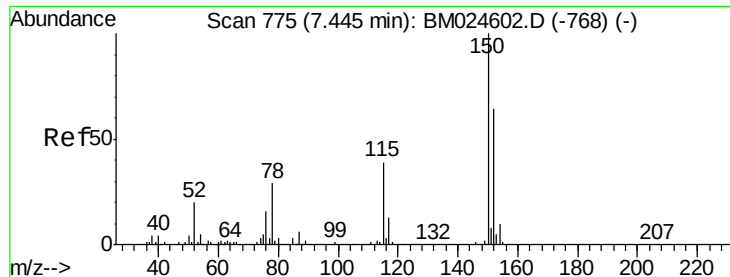
Instrument :
BNA_M
ClientSampled :
TAL-1

Quant Time: Feb 04 03:43:28 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 23 14:57:07 2020
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
2/4/2020 6:12:30 PM





#1

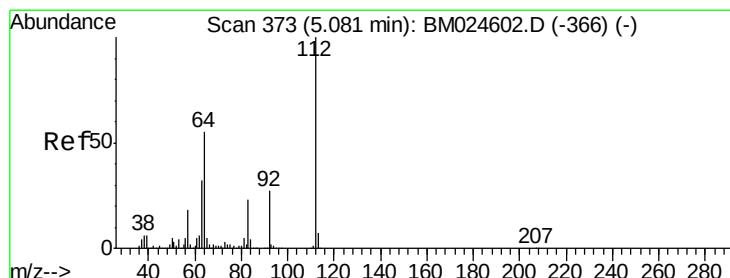
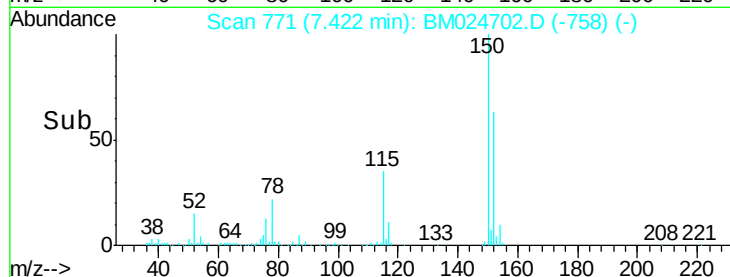
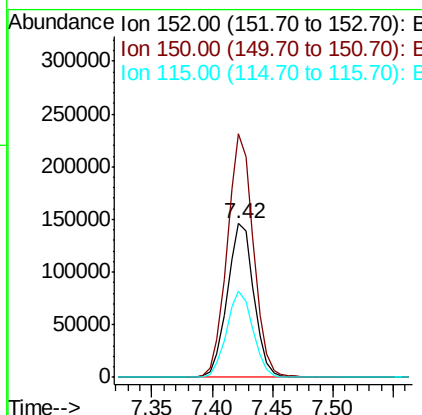
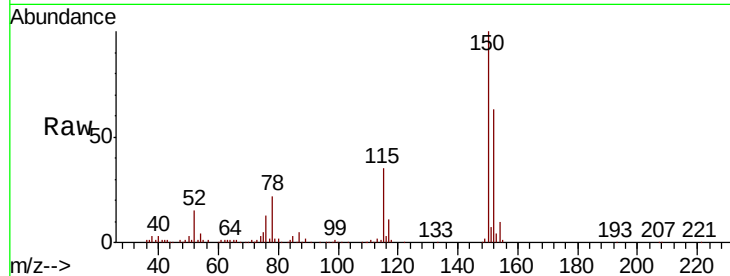
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.42 min Scan# 771
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Instrument :
BNA_M
ClientSampleId :
TAL-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	124.2	186.4
115	56.2	48.6	72.8

Manual Integrations
APPROVED

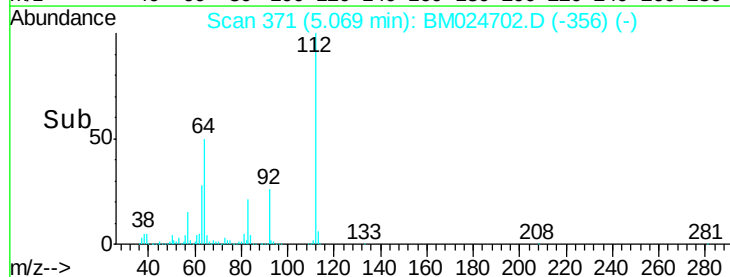
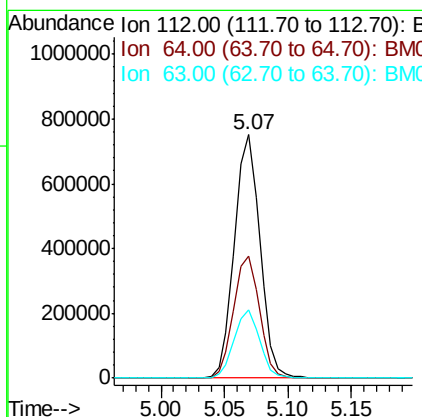
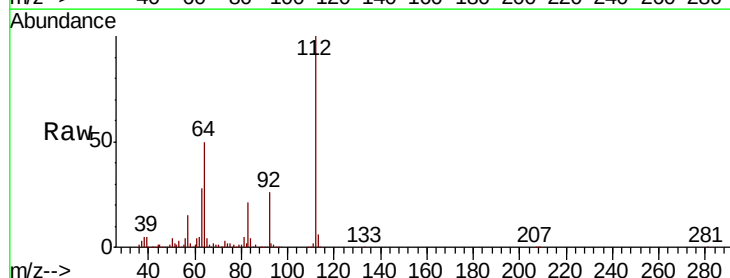
mohammad
2/4/2020 6:12:30 PM

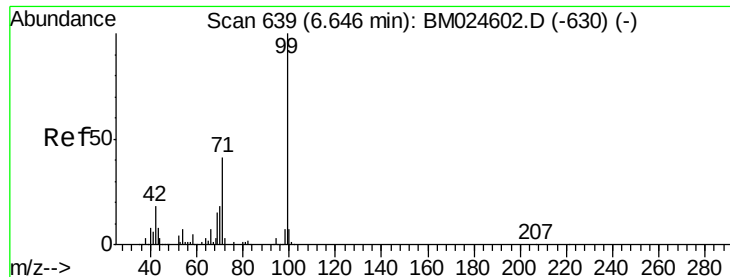


#5

2-Fluorophenol
Concen: 89.075 ng
RT: 5.07 min Scan# 371
Delta R.T. -0.01 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.9	44.2	66.4
63	27.9	25.9	38.9





#7

Phenol-d6

Concen: 80.425 ng

RT: 6.62 min Scan# 635

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampled :

TAL-1

Tot Ion: 99 Resp: 1303036

Ion Ratio Lower Upper

99 100

42 14.6 14.1 21.1

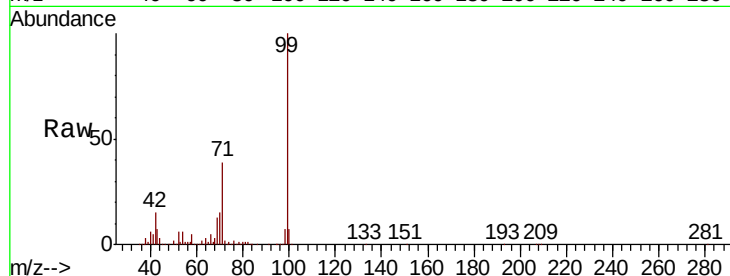
71 38.8 33.0 49.6

Manual Integrations

APPROVED

mohammad

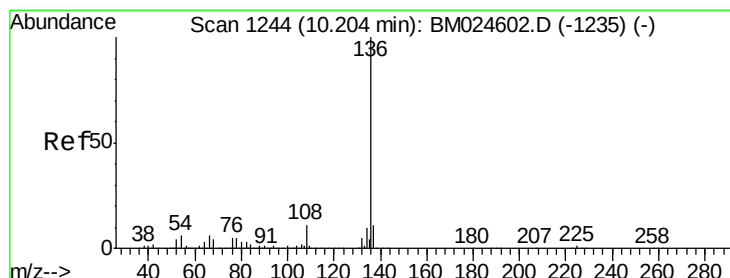
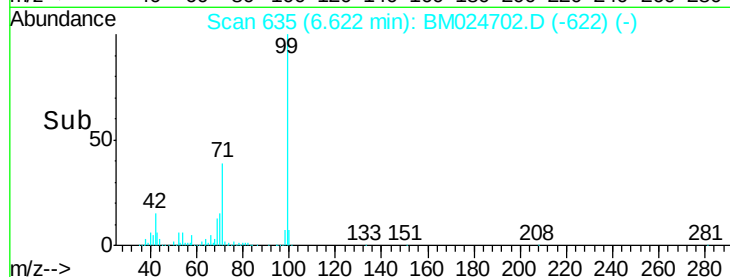
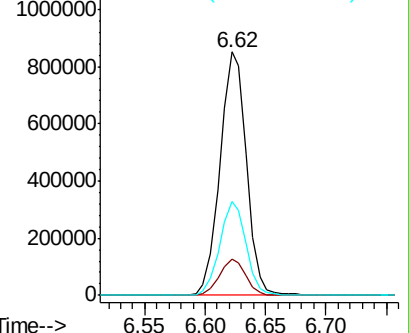
2/4/2020 6:12:30 PM



Abundance Ion 99.00 (98.70 to 99.70): BM024702.D (-630) (-)

Ion 42.00 (41.70 to 42.70): BM024702.D (-630) (-)

Ion 71.00 (70.70 to 71.70): BM024702.D (-630) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.18 min Scan# 1240

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Tgt Ion: 136 Resp: 822309

Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

54 5.1 4.5 6.7

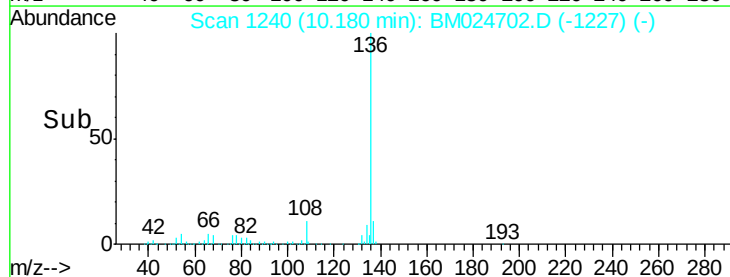
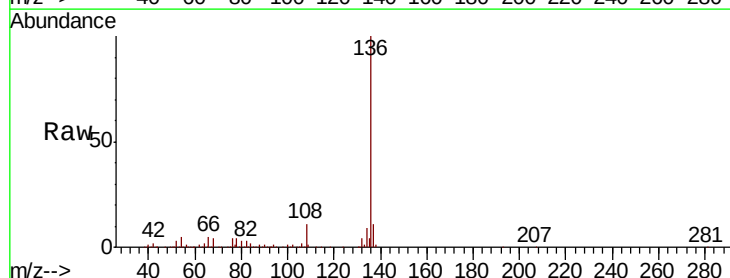
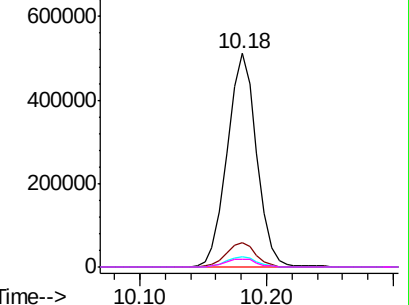
68 3.7 3.4 5.0

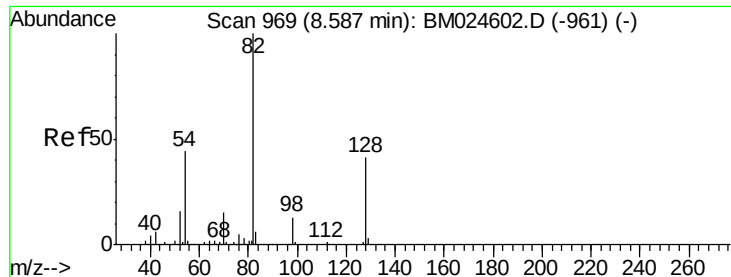
Abundance Ion 136.00 (135.70 to 136.70): BM024702.D (-1227) (-)

Ion 137.00 (136.70 to 137.70): BM024702.D (-1227) (-)

Ion 54.00 (53.70 to 54.70): BM024702.D (-1227) (-)

Ion 68.00 (67.70 to 68.70): BM024702.D (-1227) (-)





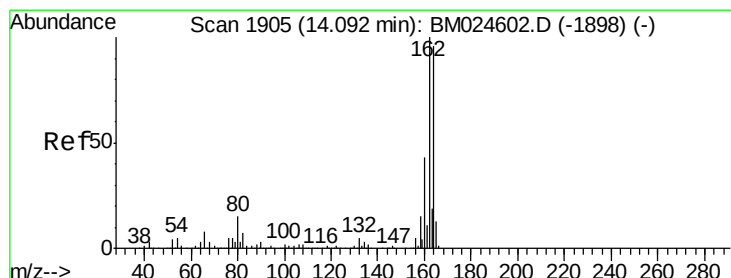
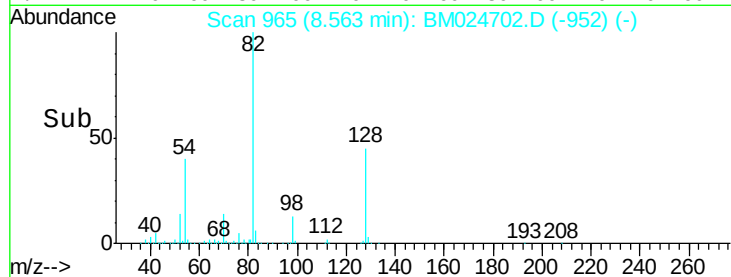
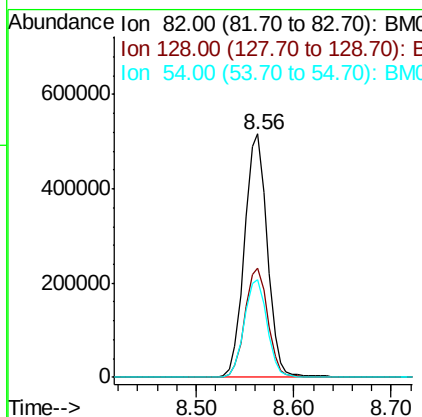
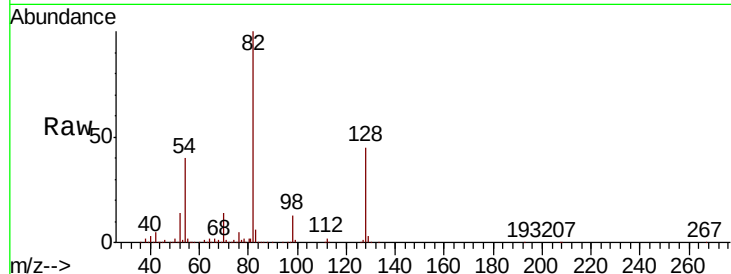
#23
 Nitrobenzene-d5
 Concen: 50.160 ng
 RT: 8.56 min Scan# 965
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Instrument :
 BNA_M
 ClientSampleId :
 TAL-1

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.8	32.6	48.8
54	40.0	34.8	52.2

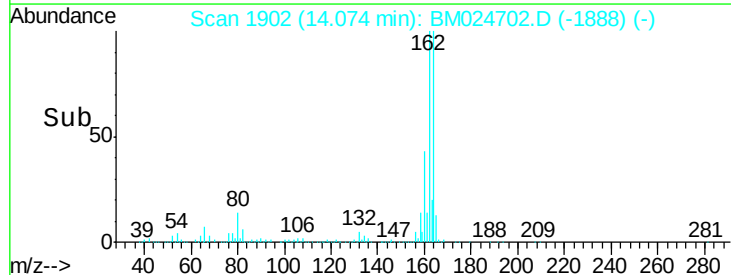
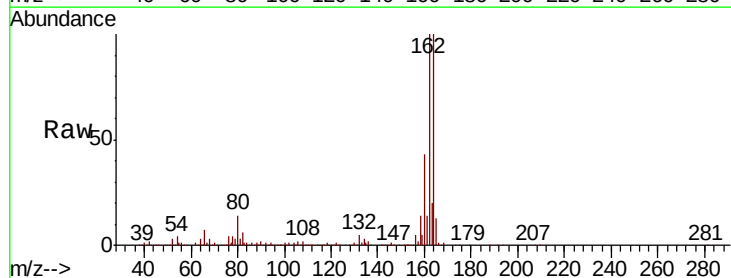
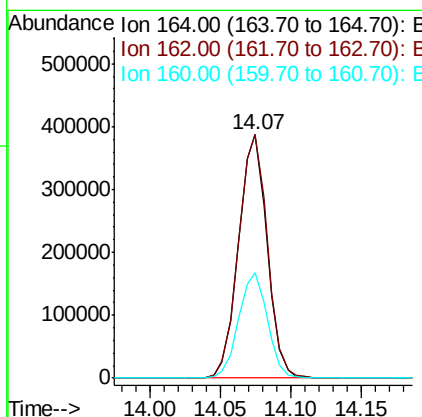
Manual Integrations
 APPROVED

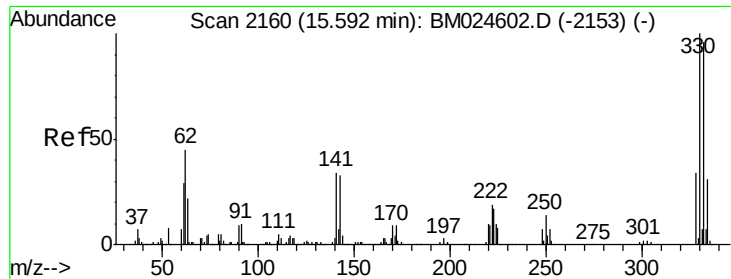
mohammad
 2/4/2020 6:12:30 PM



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.07 min Scan# 1902
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.0	82.9	124.3
160	43.4	35.5	53.3





#42

2,4,6-Tribromophenol

Concen: 90.404 ng

RT: 15.57 min Scan# 2157

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

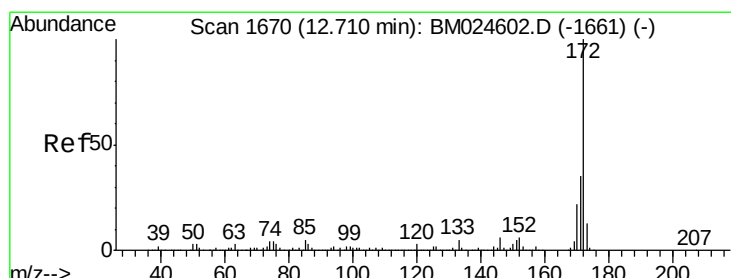
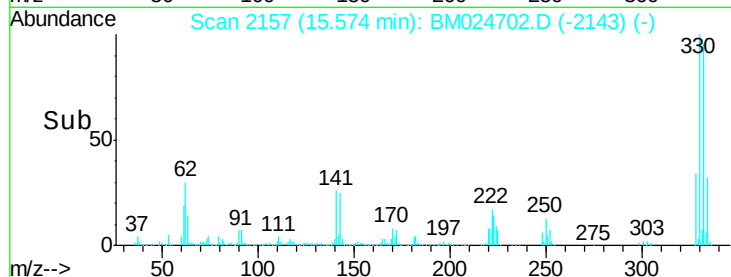
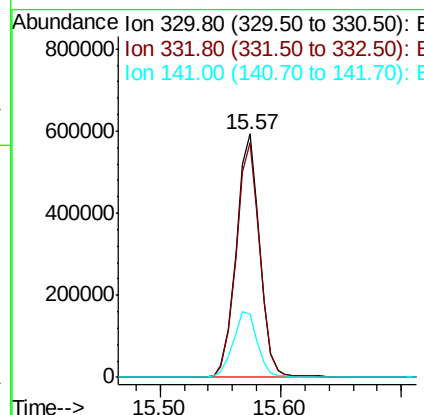
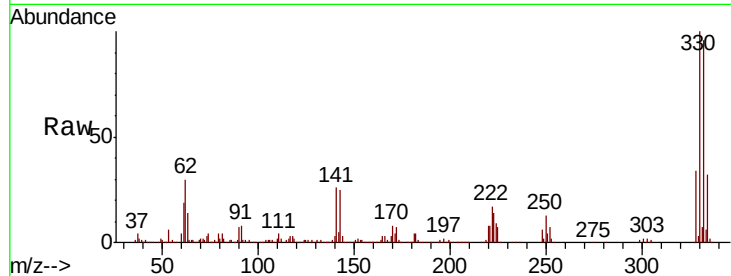
ClientSampled :

TAL-1

Tot Ion:	330	Resp:	803187
Ion Ratio		Lower	Upper
330	100		
332	96.9	77.2	115.8
141	28.1	26.9	40.3

Manual Integrations
APPROVED

mohammad
2/4/2020 6:12:30 PM



#45

2-Fluorobiphenyl

Concen: 51.217 ng

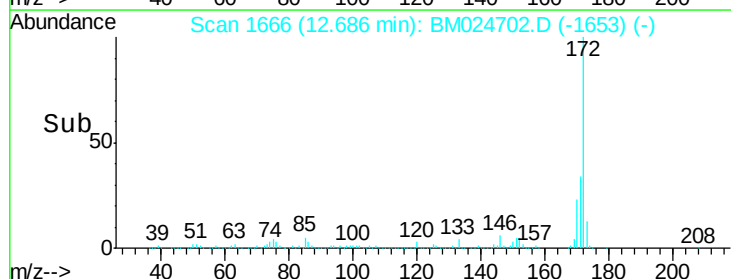
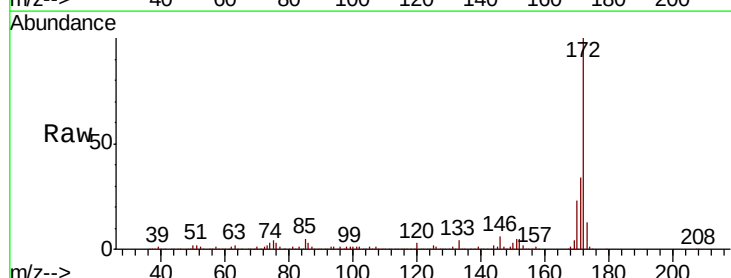
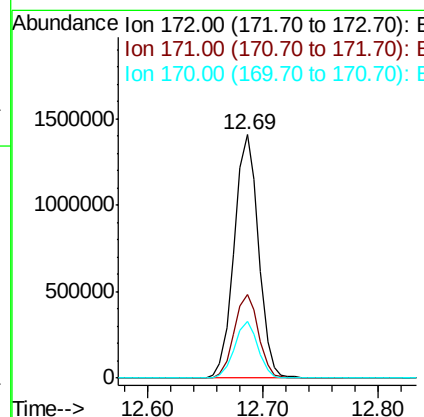
RT: 12.69 min Scan# 1666

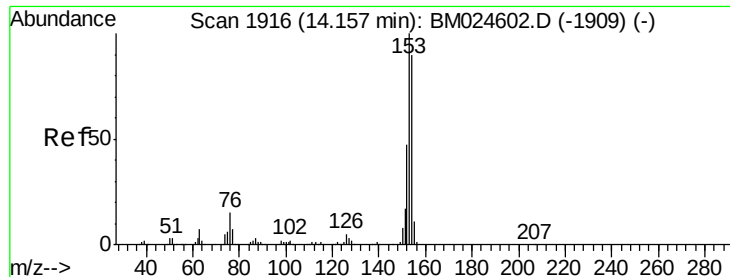
Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Tgt Ion:	172	Resp:	2057646
Ion Ratio		Lower	Upper
172	100		
171	34.4	28.3	42.5
170	23.1	17.9	26.9





#52

Acenaphthene

Concen: 6.456 ng

RT: 14.14 min Scan# 1913

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

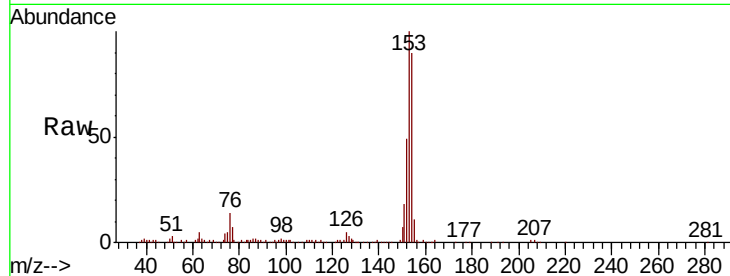
ClientSampleId :

TAL-1

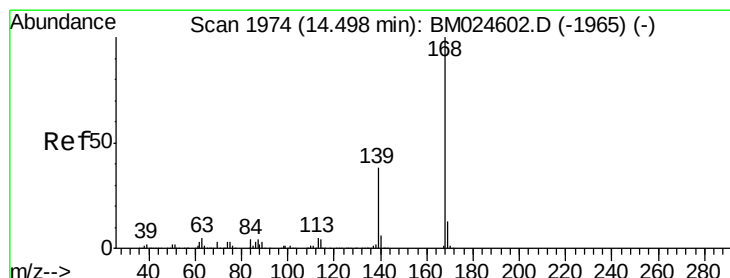
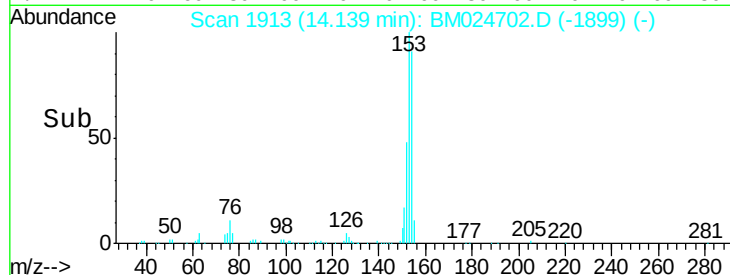
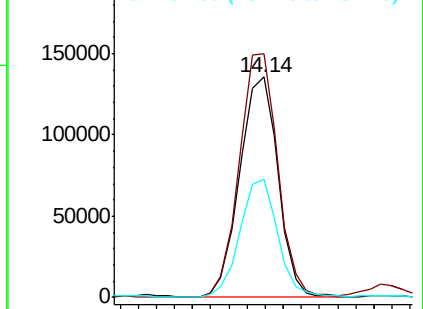
Tot Ion:	154	Resp:	200108
Ion Ratio	Lower	Upper	
154	100		
153	110.7	89.1	133.7
152	53.8	41.9	62.9

Manual Integrations
APPROVED

mohammad
2/4/2020 6:12:30 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 2.798 ng

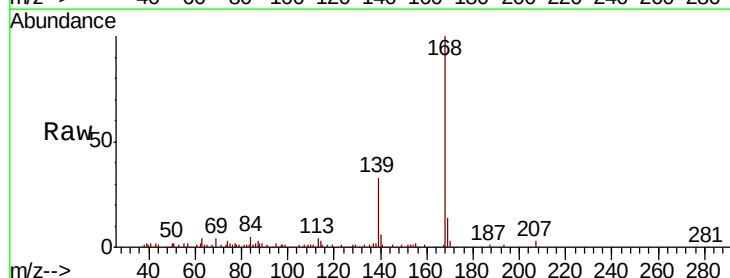
RT: 14.47 min Scan# 1970

Delta R.T. -0.02 min

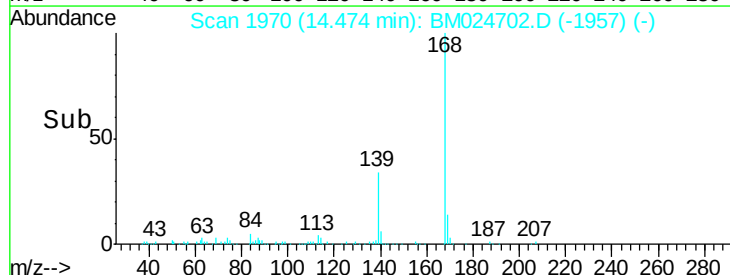
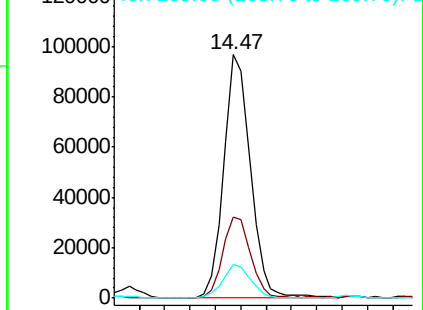
Lab File: BM024702.D

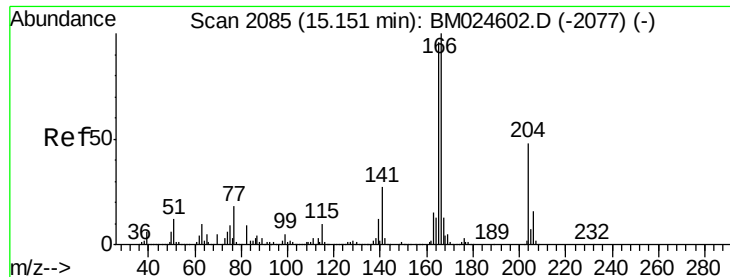
Acq: 03 Feb 2020 16:59

Tgt Ion:	168	Resp:	141471
Ion Ratio	Lower	Upper	
168	100		
139	33.3	30.2	45.4
169	13.8	10.7	16.1



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





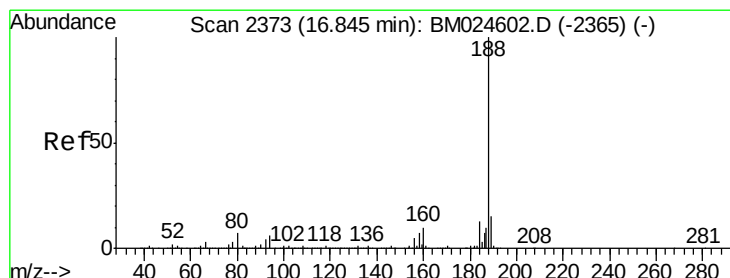
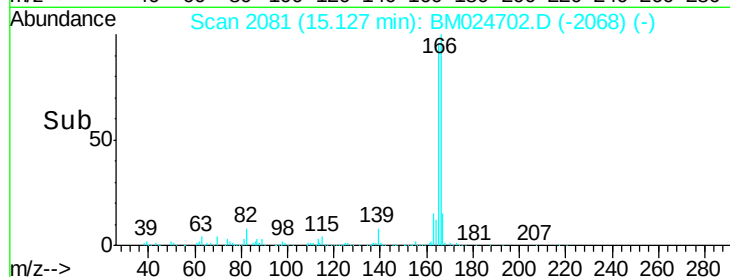
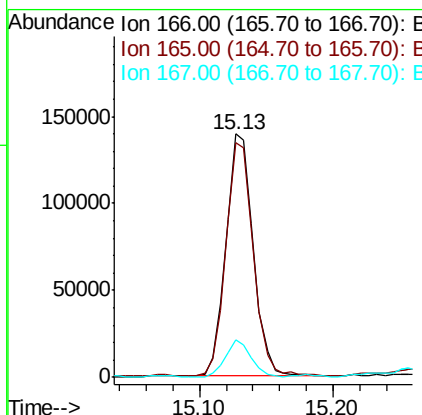
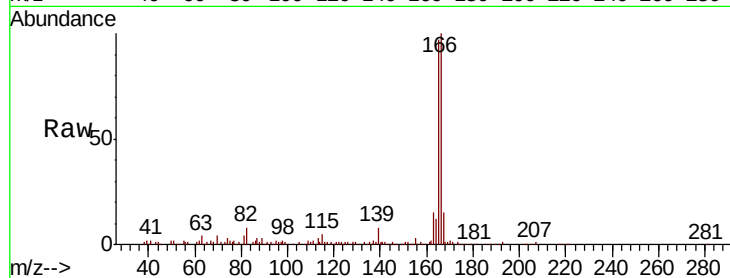
#58
Fluorene
 Concen: 4.714 ng
 RT: 15.13 min Scan# 2081
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Instrument :
 BNA_M
 ClientSampled :
 TAL-1

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.6	76.6	114.8
167	15.2	10.8	16.2

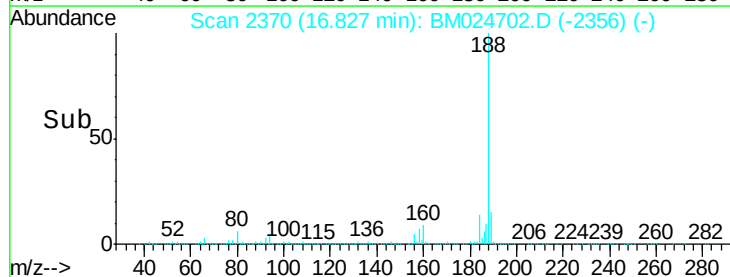
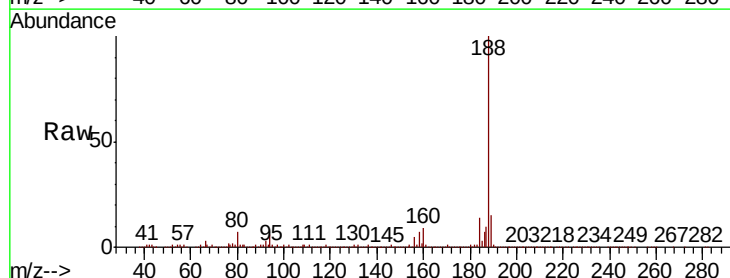
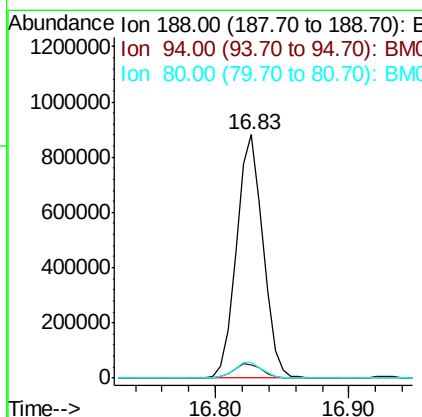
Manual Integrations
 APPROVED

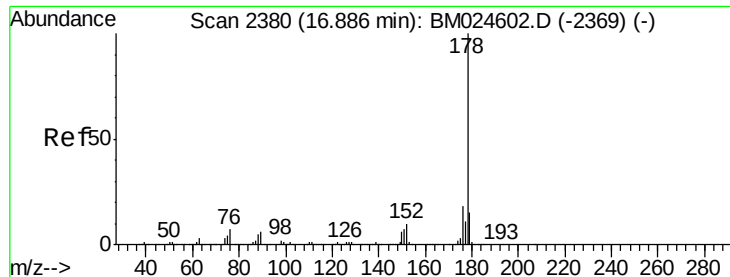
mohammad
 2/4/2020 6:12:30 PM



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 16.83 min Scan# 2370
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.6	5.0	7.6
80	6.5	5.8	8.8





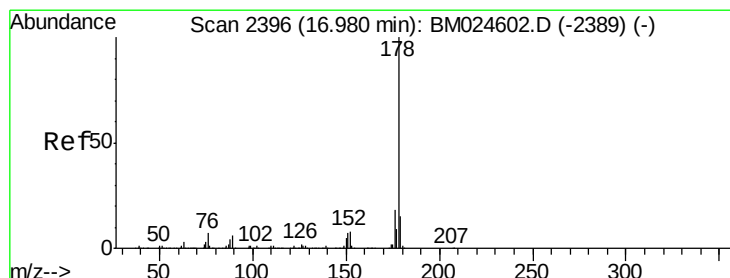
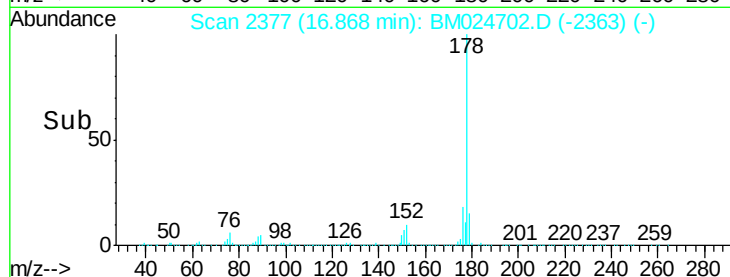
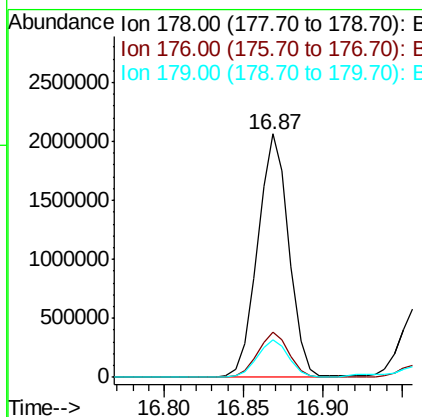
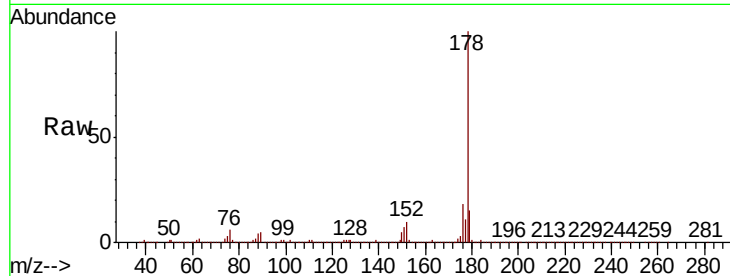
#71
Phenanthrene
Concen: 42.780 ng
RT: 16.87 min Scan# 2377
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Instrument :
BNA_M
ClientSampleId :
TAL-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.5	21.7
179	15.4	11.9	17.9

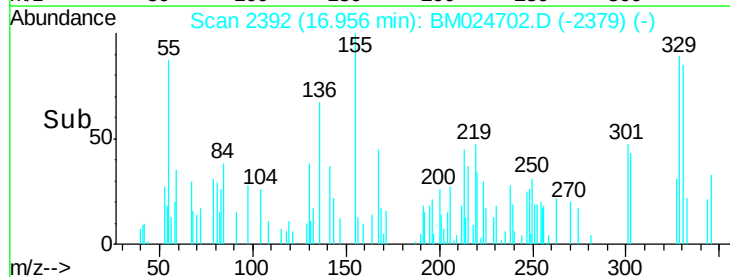
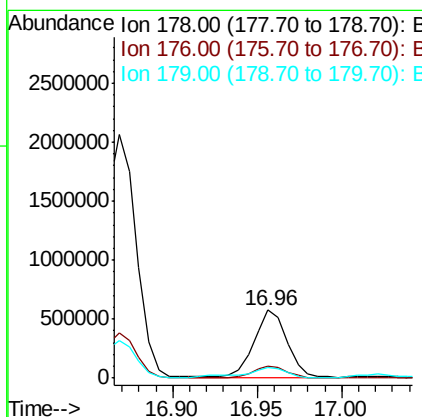
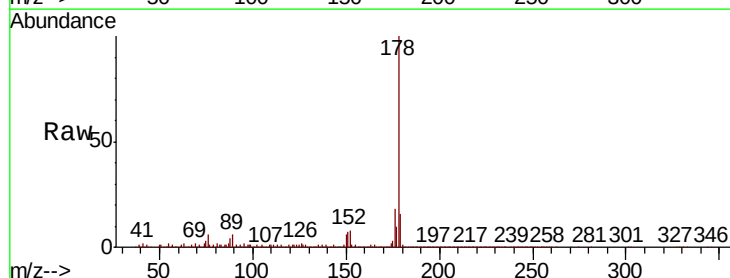
Manual Integrations
APPROVED

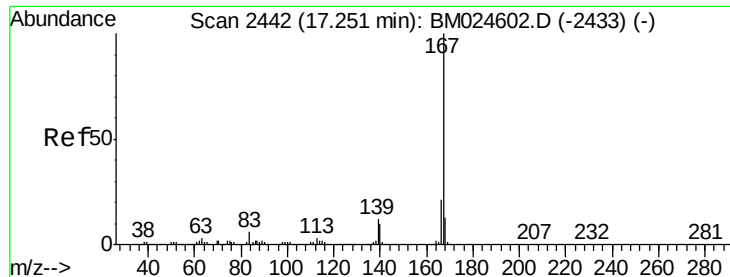
mohammad
2/4/2020 6:12:30 PM



#72
Anthracene
Concen: 11.871 ng
RT: 16.96 min Scan# 2392
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.3	21.5
179	15.6	12.1	18.1





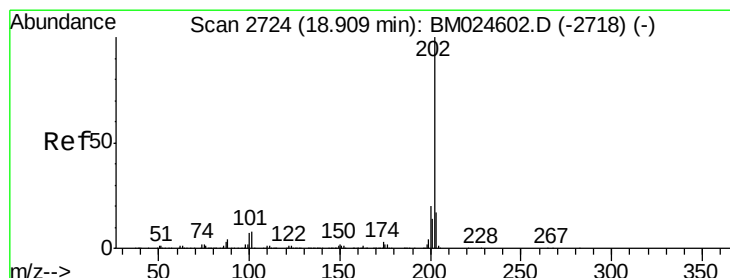
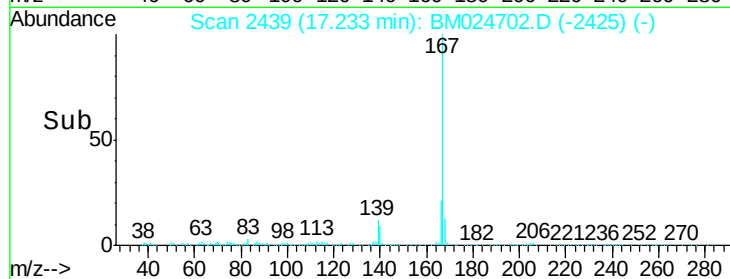
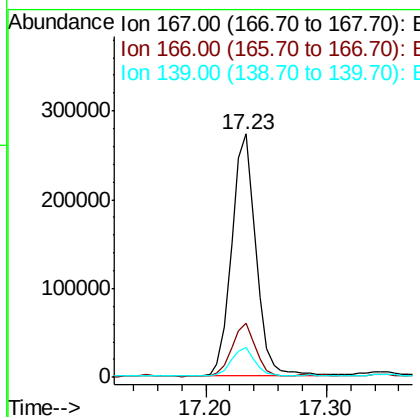
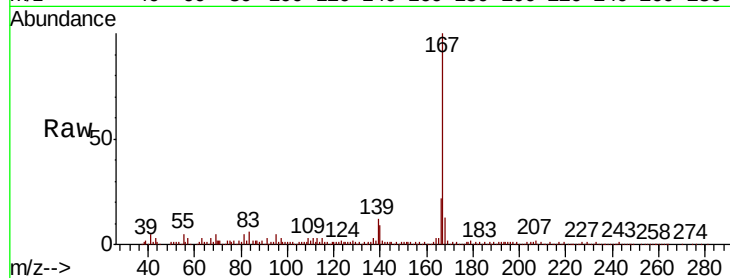
#73
 Carbazole
 Concen: 6.561 ng
 RT: 17.23 min Scan# 2439
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Instrument :
 BNA_M
 ClientSampleId :
 TAL-1

Tot Ion:	167	Resp:	384638
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.1	25.7
139	12.2	9.8	14.8

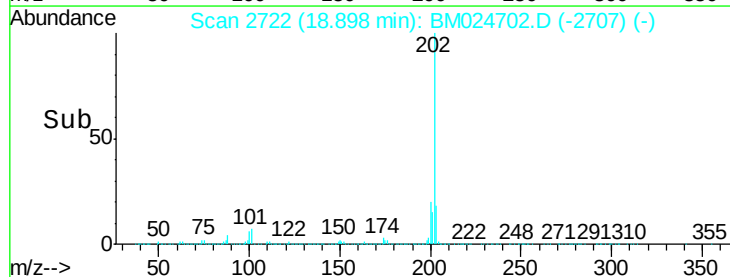
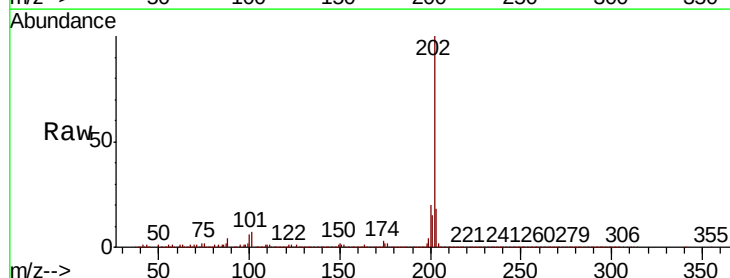
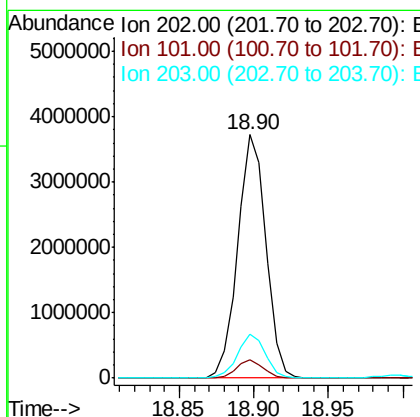
Manual Integrations
 APPROVED

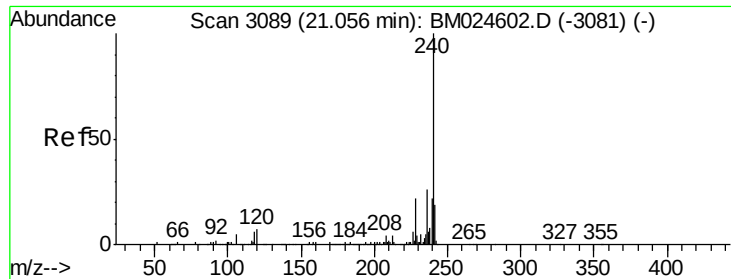
mohammad
 2/4/2020 6:12:30 PM



#75
 Fluoranthene
 Concen: 59.343 ng
 RT: 18.90 min Scan# 2722
 Delta R.T. -0.01 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Tgt Ion:	202	Resp:	4874482
Ion Ratio	Lower	Upper	
202	100		
101	7.4	0.0	28.4
203	17.9	0.0	37.5





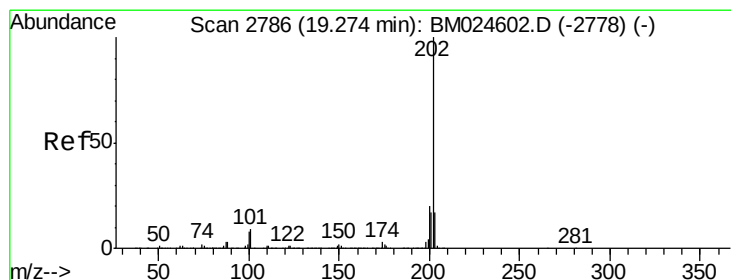
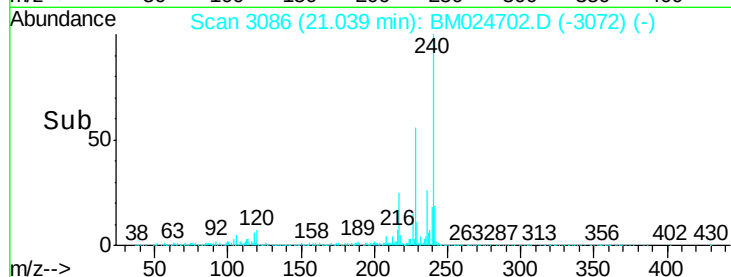
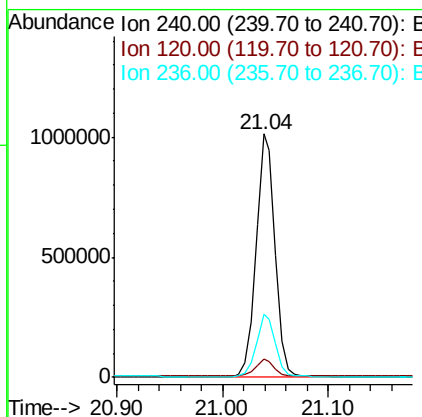
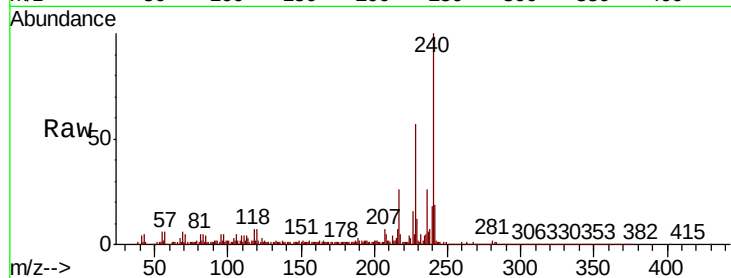
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.04 min Scan# 3086
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Instrument :
BNA_M
ClientSampled :
TAL-1

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.4	5.3	7.9
236	25.9	20.6	31.0

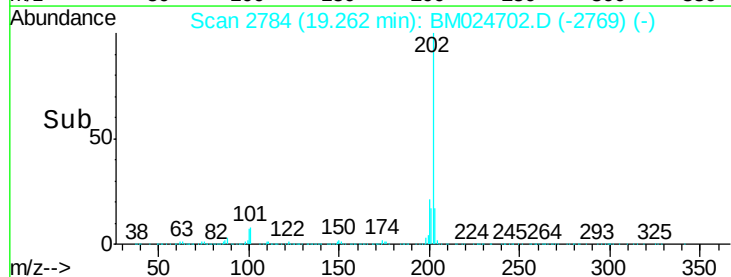
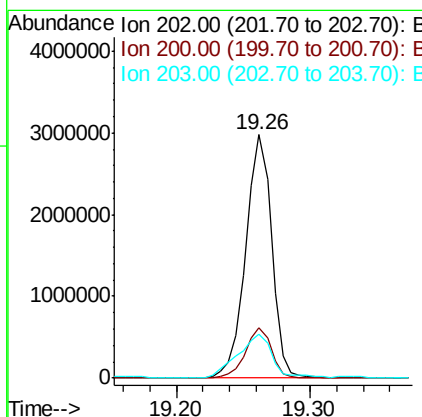
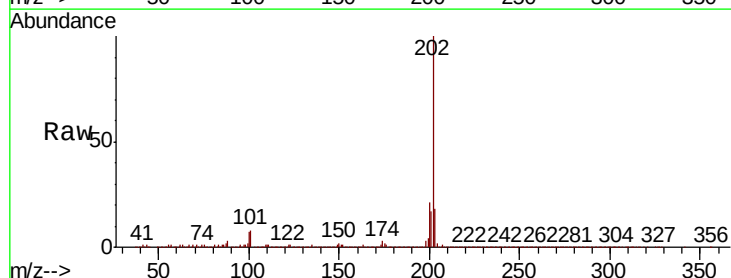
Manual Integrations
APPROVED

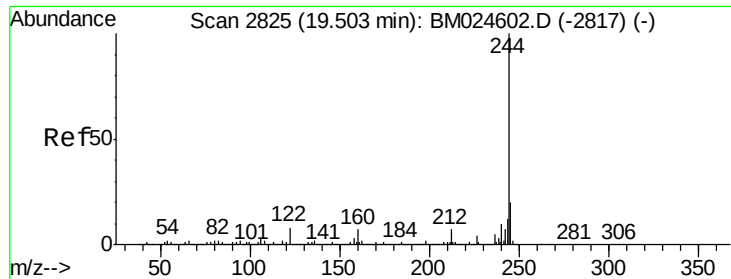
mohammad
2/4/2020 6:12:30 PM



#78
Pyrene
Concen: 47.195 ng
RT: 19.26 min Scan# 2784
Delta R.T. -0.01 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.2	24.2
203	18.0	14.0	21.0





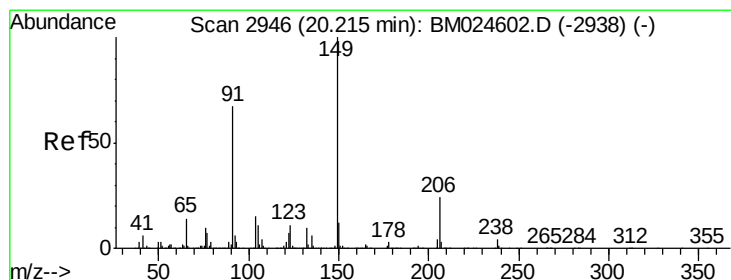
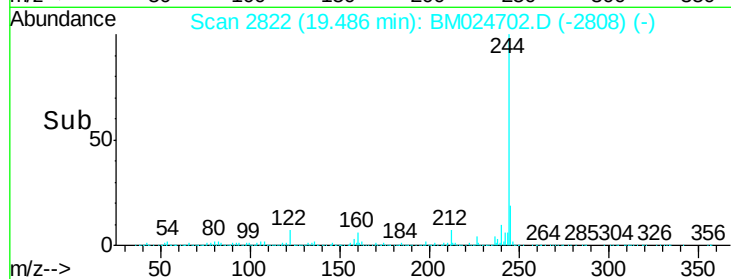
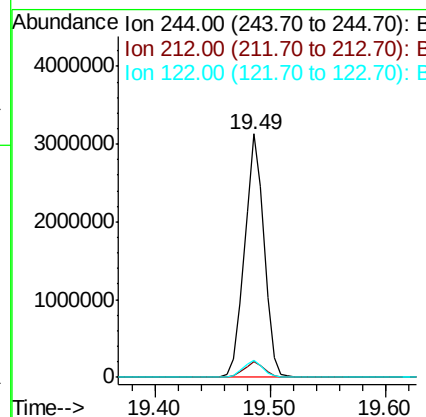
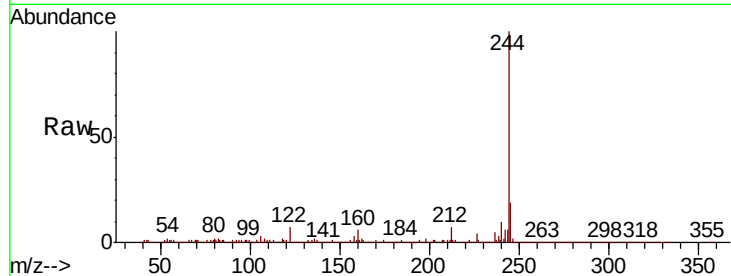
#79
 Terphenyl-d14
 Concen: 53.110 ng
 RT: 19.49 min Scan# 2822
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Instrument :
 BNA_M
 ClientSampled :
 TAL-1

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	7.1	6.2	9.4

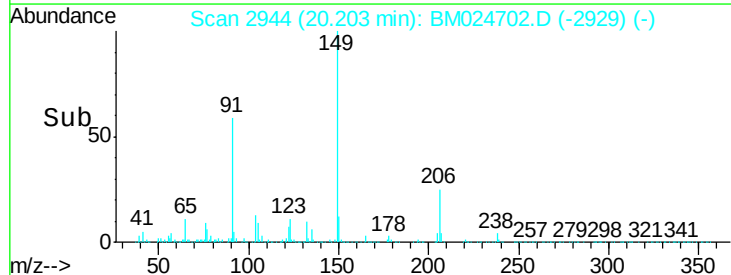
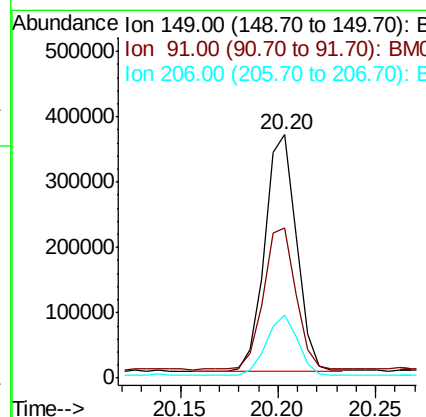
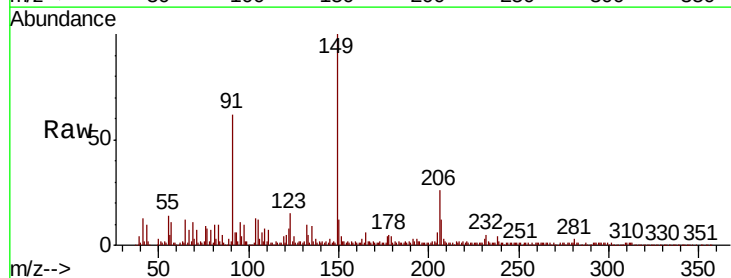
Manual Integrations
 APPROVED

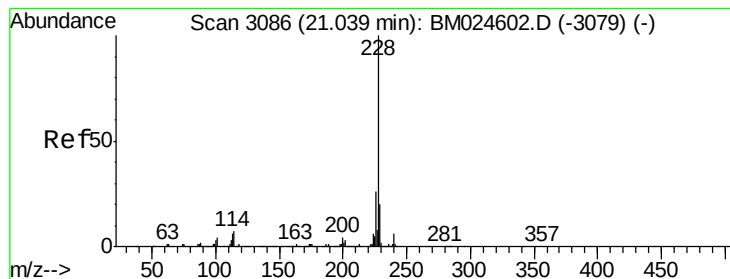
mohammad
 2/4/2020 6:12:30 PM



#80
 Butylbenzylphthalate
 Concen: 11.567 ng
 RT: 20.20 min Scan# 2944
 Delta R.T. -0.01 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
149	100		
91	61.5	53.9	80.9
206	25.7	19.0	28.6





#81

Benzo(a)anthracene

Concen: 26.788 ng

RT: 21.03 min Scan# 3084

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

TAL-1

Tot Ion:228 Resp: 2378083

Ion Ratio Lower Upper

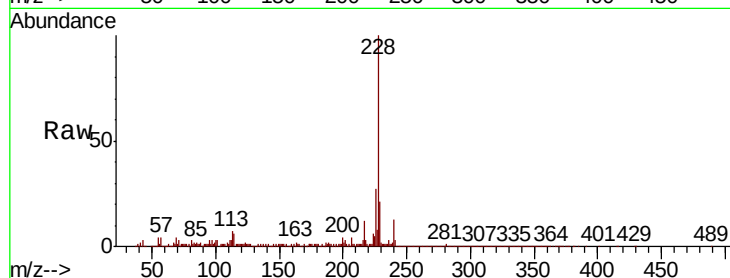
228 100

226 27.4 21.1 31.7

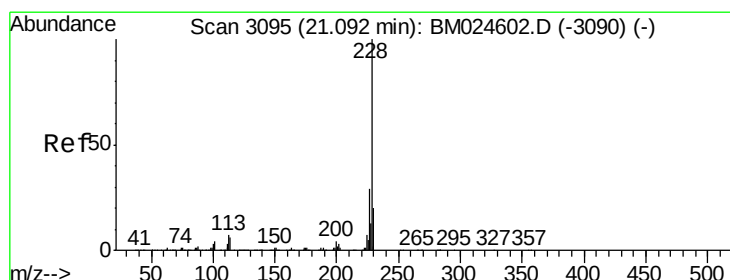
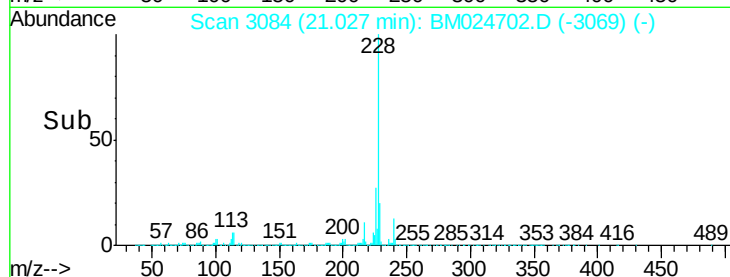
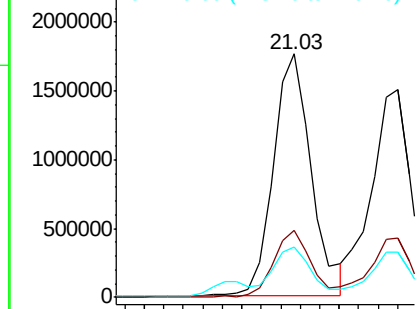
229 20.5 15.8 23.6

Manual Integrations
APPROVED

mohammad
2/4/2020 6:12:30 PM



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: 24.685 ng

RT: 21.08 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Tgt Ion:228 Resp: 2090995

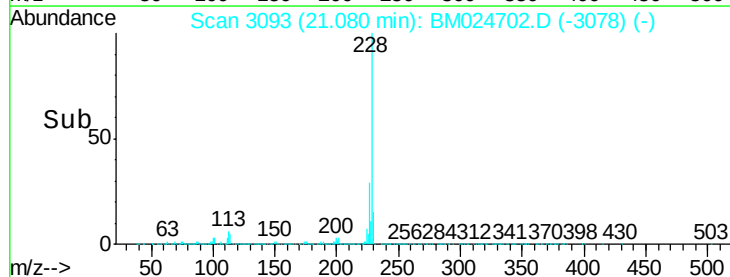
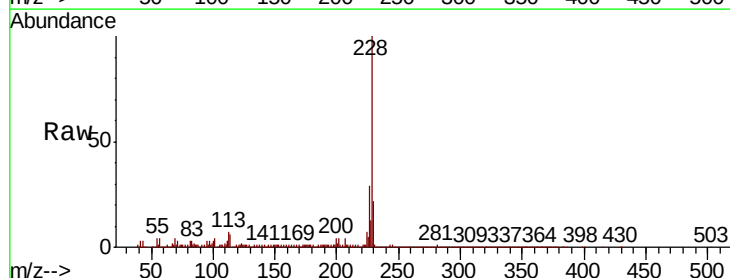
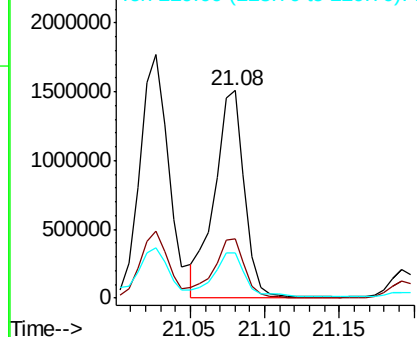
Ion Ratio Lower Upper

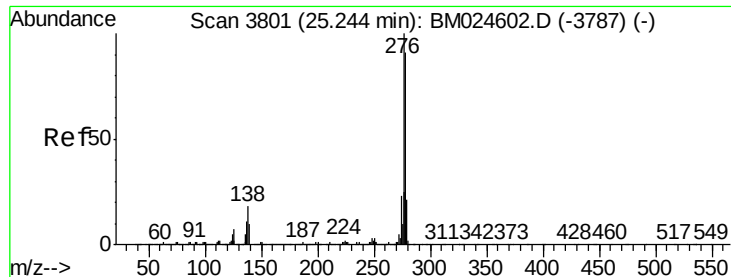
228 100

226 28.7 23.2 34.8

229 21.9 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





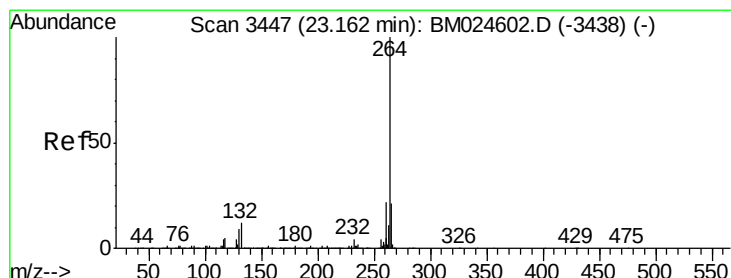
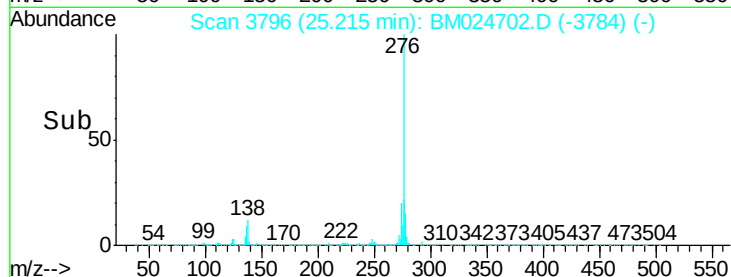
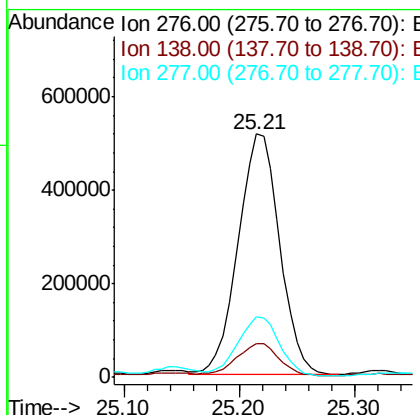
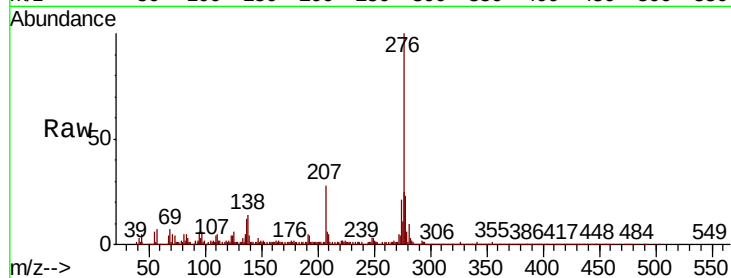
#86
Indeno(1,2,3-cd)pyrene
Concen: 13.873 ng
RT: 25.21 min Scan# 3796
Delta R.T. -0.03 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Instrument :
BNA_M
ClientSampled :
TAL-1

Tot Ion	Ratio	Lower	Upper
276	100		
138	13.7	13.4	20.0
277	24.4	19.6	29.4

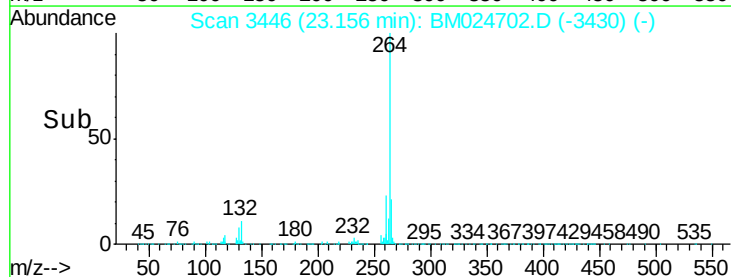
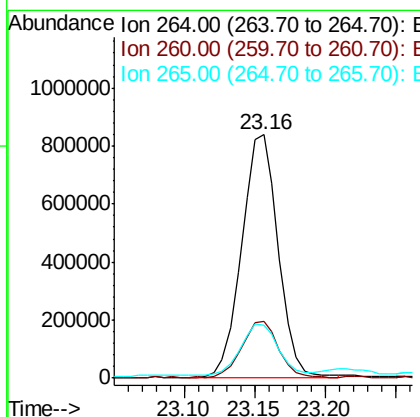
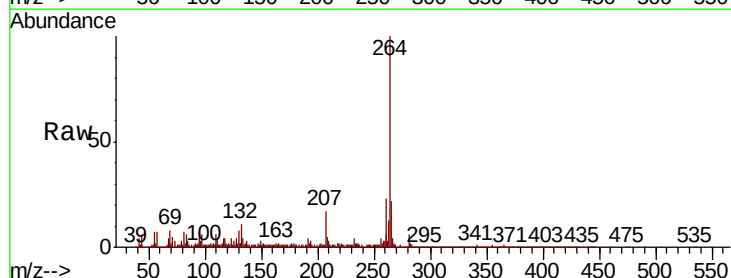
Manual Integrations
APPROVED

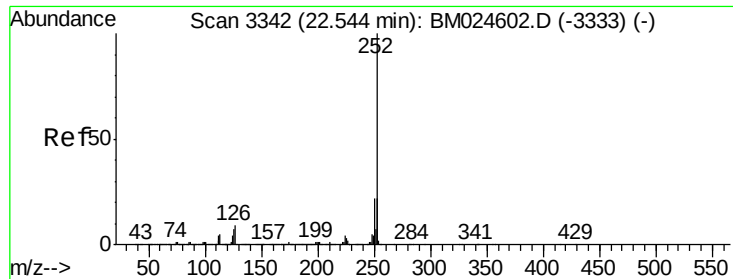
mohammad
2/4/2020 6:12:30 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 23.16 min Scan# 3446
Delta R.T. -0.01 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	17.9	26.9
265	21.9	17.3	25.9





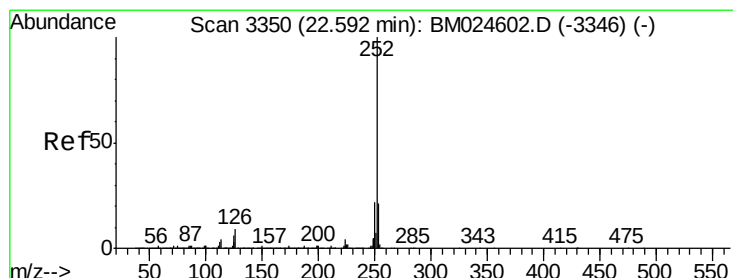
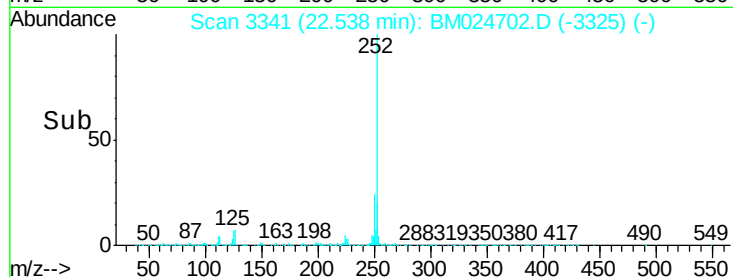
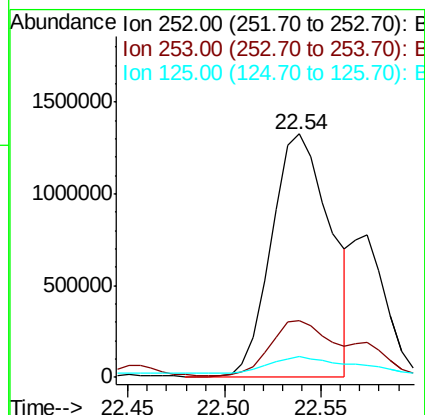
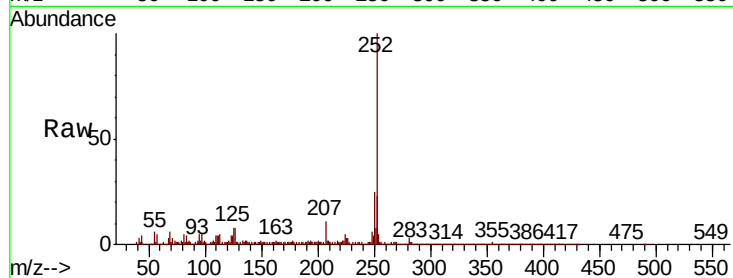
#88
Benzo(b)fluoranthene
Concen: 28.893 ng m
RT: 22.54 min Scan# 3341
Delta R.T. -0.01 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Instrument :
BNA_M
ClientSampleId :
TAL-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.6	26.4
125	8.4	5.7	8.5

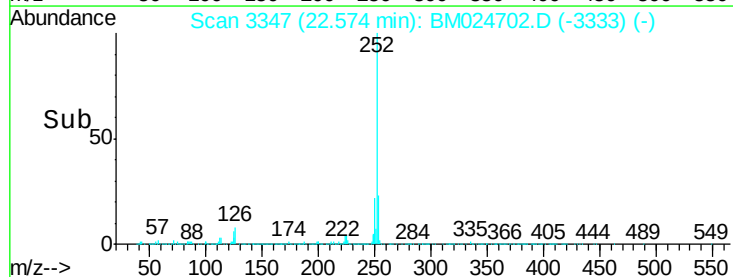
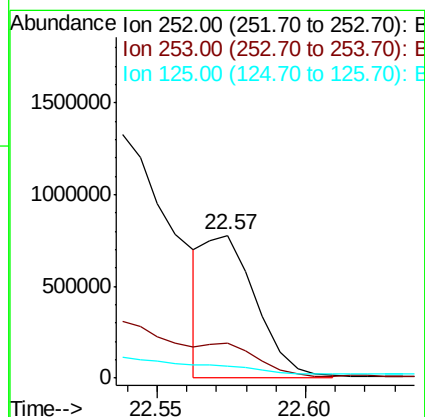
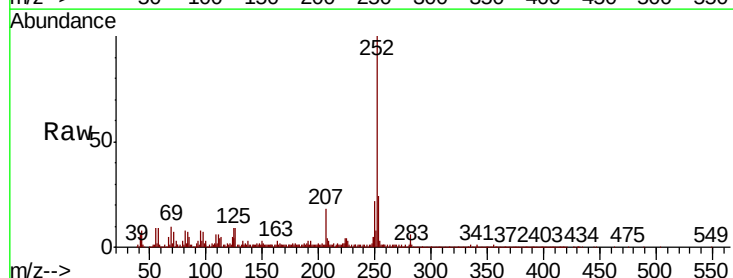
Manual Integrations
APPROVED

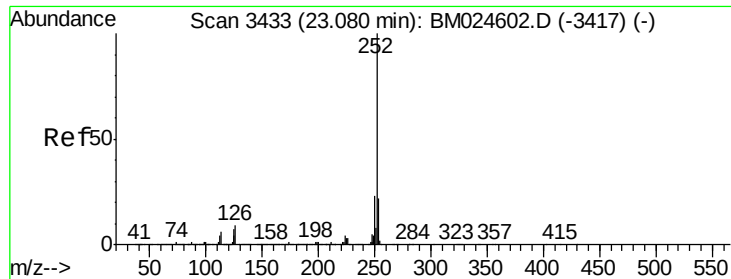
mohammad
2/4/2020 6:12:30 PM



#89
Benzo(k)fluoranthene
Concen: 9.913 ng m
RT: 22.57 min Scan# 3347
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.3	25.9
125	8.7	5.2	7.8#





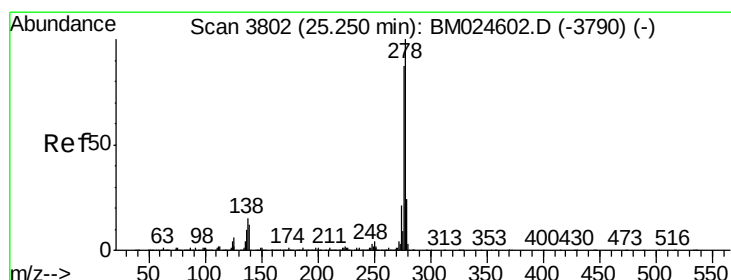
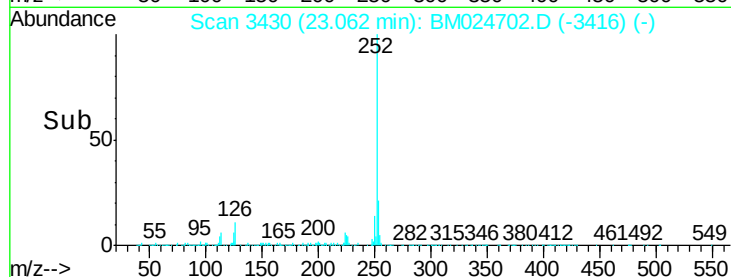
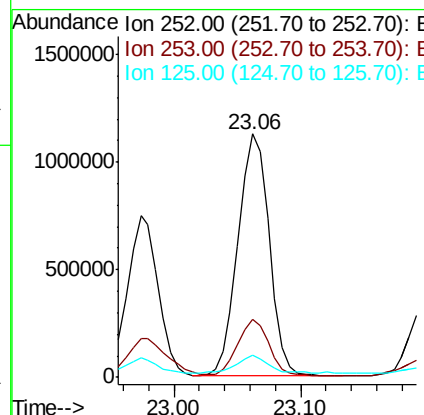
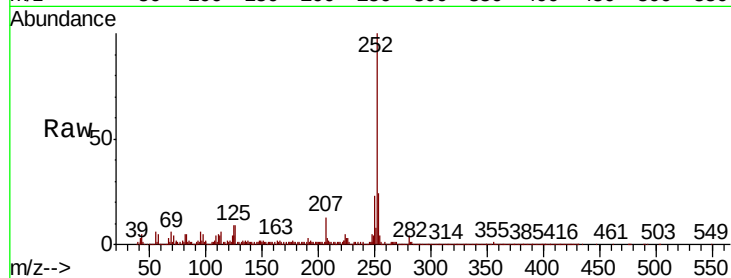
#90
Benzo(a)pyrene
Concen: 21.537 ng
RT: 23.06 min Scan# 3430
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Instrument :
BNA_M
ClientSampled :
TAL-1

Tot Ion:252 Resp: 1916329
Ion Ratio Lower Upper
252 100
253 23.9 17.3 25.9
125 8.9 5.8 8.8#

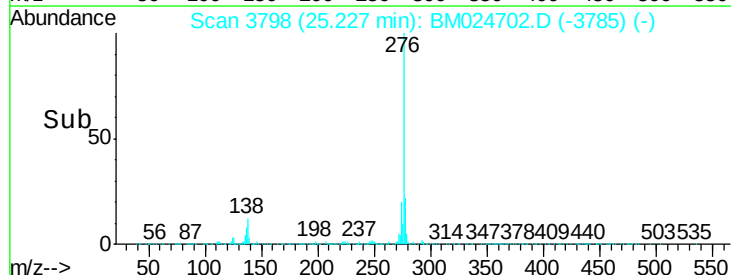
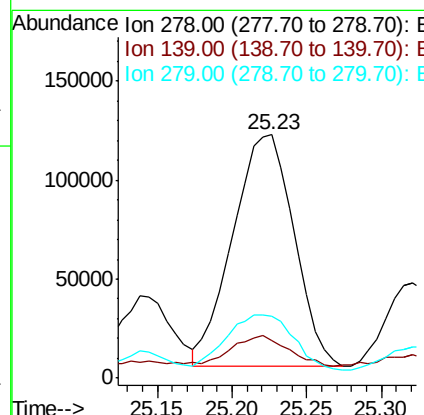
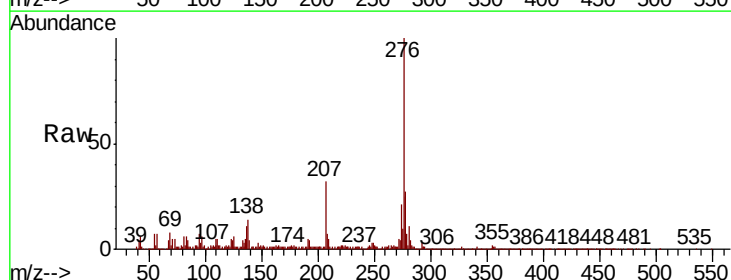
Manual Integrations
APPROVED

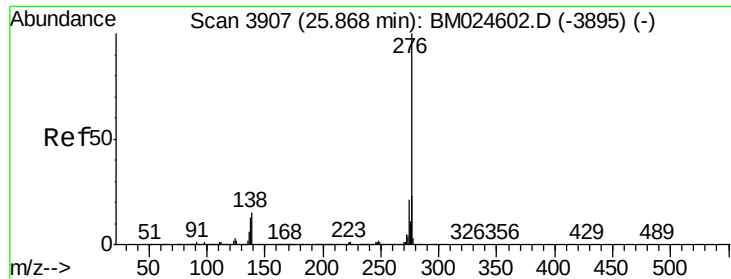
mohammad
2/4/2020 6:12:30 PM



#91
Dibenzo(a,h)anthracene
Concen: 3.933 ng
RT: 25.23 min Scan# 3798
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion:278 Resp: 332162
Ion Ratio Lower Upper
278 100
139 15.6 9.3 13.9#
279 25.3 18.9 28.3





#92
 Benzo(a,h,i)perylene
 Concen: 15.517 ng
 RT: 25.84 min Scan# 3903
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Instrument :
 BNA_M
 ClientSampleId :
 TAL-1

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.6	28.0
138	15.5	11.9	17.9

Manual Integrations
 APPROVED

mohammad
 2/4/2020 6:12:30 PM

