

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092419\
 Data File : BM022762.D
 Acq On : 24 Sep 2019 22:40
 Operator : JU
 Sample : K4997-07
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-11-091919

Manual Integrations
 APPROVED

mohammad
 9/26/2019 8:25:36 AM

Quant Time: Sep 25 04:50:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM092019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 20 16:34:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	238254	20.00	ng	-0.01
21) Naphthalene-d8	10.61	136	912958	20.00	ng	-0.01
39) Acenaphthene-d10	14.45	164	556147	20.00	ng	-0.01
64) Phenanthrene-d10	17.19	188	1158493	20.00	ng	0.00
76) Chrysene-d12	21.37	240	1049645	20.00	ng	-0.01
87) Perylene-d12	23.64	264	1078007	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	1922242	127.96	ng	0.00
7) Phenol-d6	6.99	99	2615369	135.55	ng	0.00
23) Nitrobenzene-d5	8.97	82	1468500	89.29	ng	0.00
42) 2,4,6-Tribromophenol	15.94	330	1015756	146.31	ng	0.00
45) 2-Fluorobiphenyl	13.08	172	3671249	90.90	ng	0.00
79) Terphenyl-d14	19.82	244	5744376	105.97	ng	0.00
Target Compounds						
49) Acenaphthylene	14.17	152	134119	2.640	ng	Qvalue 98
50) Dimethylphthalate	13.90	163	212772	5.294	ng	100
71) Phenanthrene	17.23	178	531763	8.135	ng	99
75) Fluoranthene	19.24	202	930425	12.614	ng	99
78) Pyrene	19.61	202	1042111	15.150	ng	100
81) Benzo(a)anthracene	21.35	228	481561	7.079	ng	95
83) Chrysene	21.40	228	510761	7.744	ng	98
86) Indeno(1,2,3-cd)pyrene	25.94	276	254965	3.239	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	516671m	7.916	ng	
89) Benzo(k)fluoranthene	23.00	252	167223m	2.582	ng	
90) Benzo(a)pyrene	23.54	252	390538	6.493	ng	97
92) Benzo(a,h,i)perylene	26.65	276	260556	4.361	ng	99

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

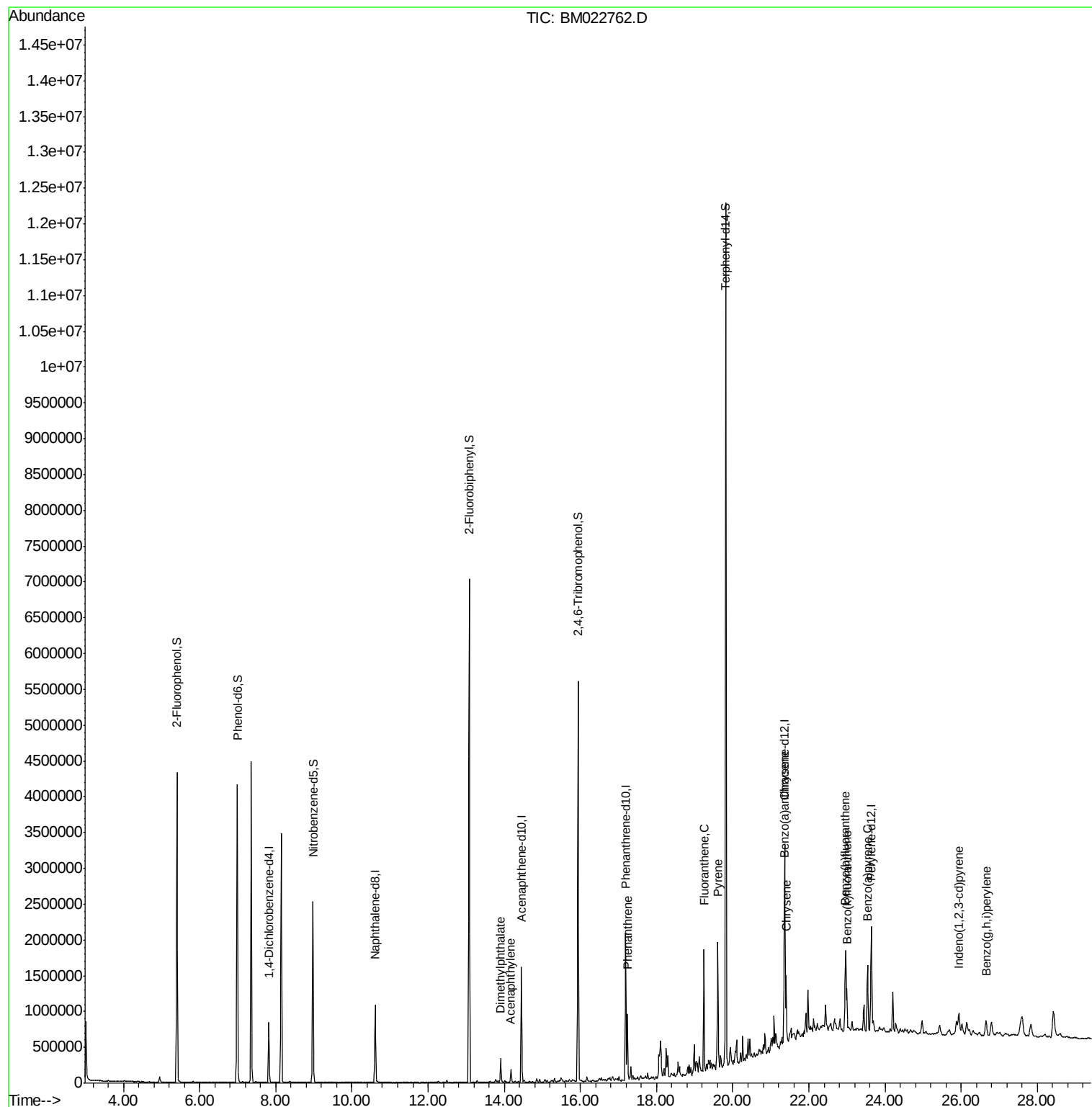
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092419\
Data File : BM022762.D
Acq On : 24 Sep 2019 22:40
Operator : JU
Sample : K4997-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

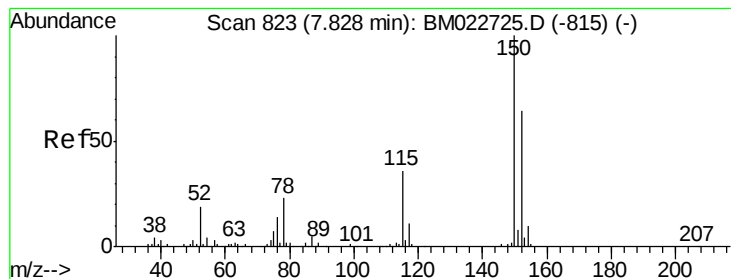
Instrument :
BNA_M
ClientSampleId :
WC-11-091919

Manual Integrations
APPROVED

mohammad
9/26/2019 8:25:36 AM

Quant Time: Sep 25 04:50:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM092019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 20 16:34:01 2019
Response via : Initial Calibration





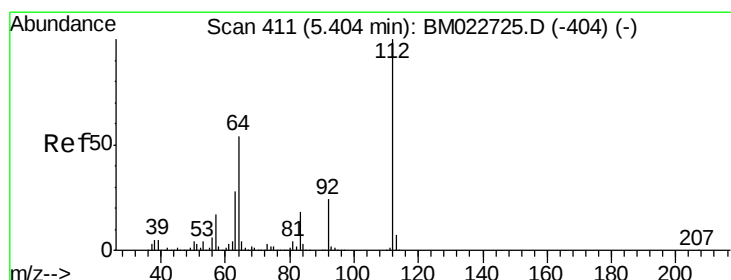
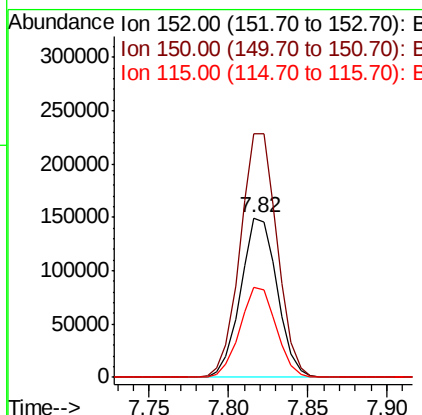
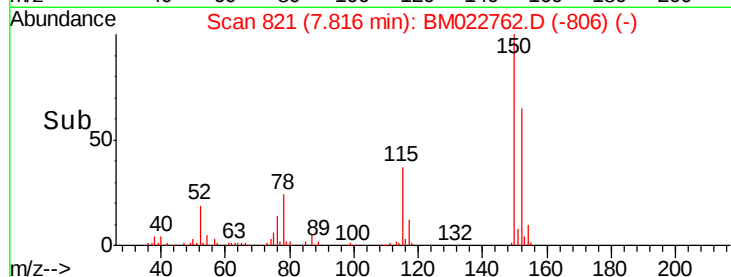
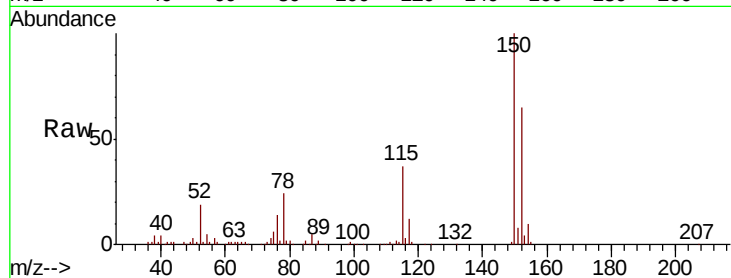
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.82 min Scan# 821
 Delta R.T. -0.01 min
 Lab File: BM022762.D
 Acq: 24 Sep 2019 22:40

Instrument :
 BNA_M
 ClientSampleId :
 WC-11-091919

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.0	124.5	186.7
115	56.7	45.0	67.4

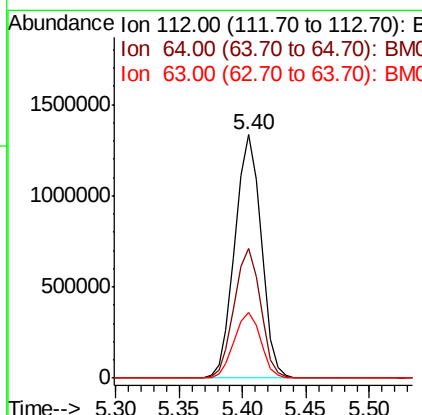
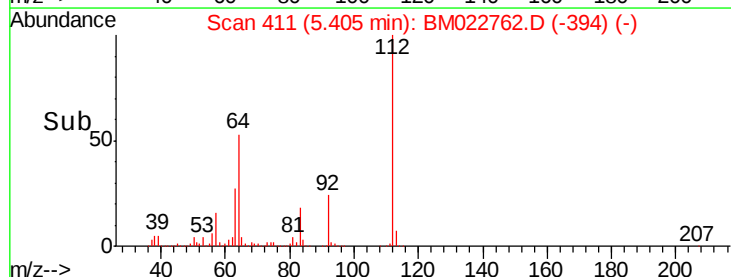
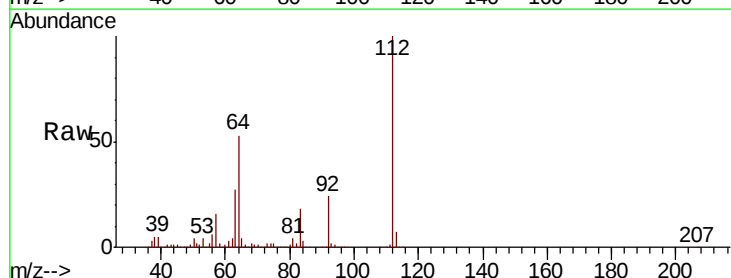
Manual Integrations
 APPROVED

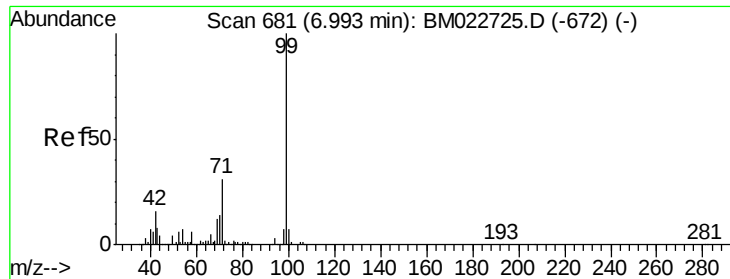
mohammad
 9/26/2019 8:25:36 AM



#5
 2-Fluorophenol
 Concen: 127.956 ng
 RT: 5.40 min Scan# 411
 Delta R.T. 0.00 min
 Lab File: BM022762.D
 Acq: 24 Sep 2019 22:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.3	43.4	65.2
63	27.2	22.1	33.1





#7

Phenol-d6

Concen: 135.547 ng

RT: 6.99 min Scan# 681

Delta R.T. 0.00 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Instrument :

BNA_M

ClientSampleId :

WC-11-091919

Tot Ion: 99 Resp: 2615369

Ion Ratio Lower Upper

99 100

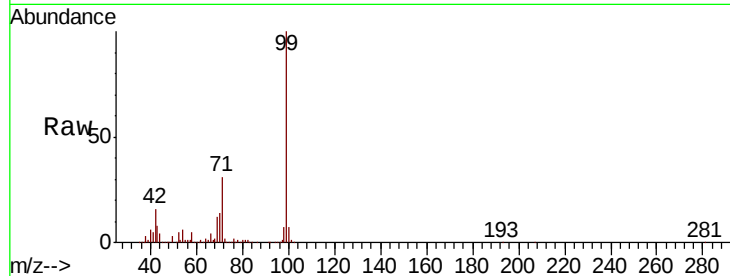
42 15.5 13.0 19.4

71 31.0 24.7 37.1

Manual Integrations
APPROVED

mohammad

9/26/2019 8:25:36 AM

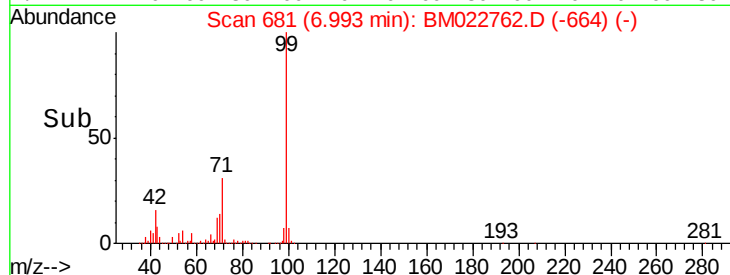


Abundance Ion 99.00 (98.70 to 99.70): BM022762.D (-664) (-)

Ion 42.00 (41.70 to 42.70): BM022762.D (-664) (-)

Ion 71.00 (70.70 to 71.70): BM022762.D (-664) (-)

Time-->



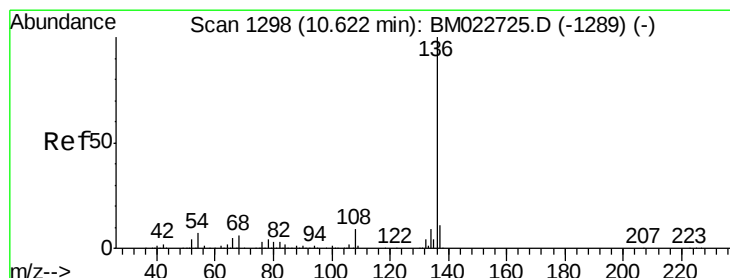
Abundance

Ion 99.00 (98.70 to 99.70): BM022762.D (-664) (-)

Ion 42.00 (41.70 to 42.70): BM022762.D (-664) (-)

Ion 71.00 (70.70 to 71.70): BM022762.D (-664) (-)

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.61 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Tgt Ion: 136 Resp: 912958

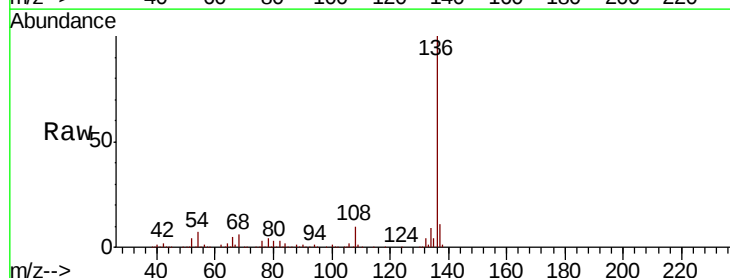
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 7.2 6.0 9.0

68 5.9 4.9 7.3



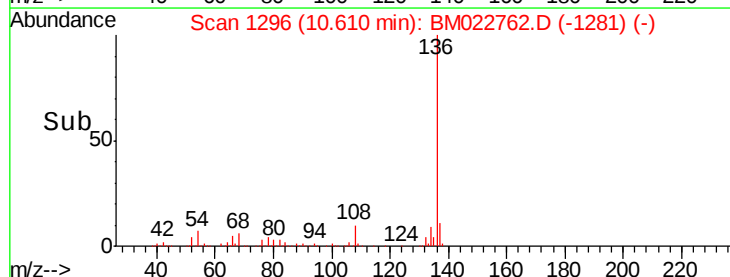
Abundance Ion 136.00 (135.70 to 136.70): BM022762.D (-1281) (-)

Ion 137.00 (136.70 to 137.70): BM022762.D (-1281) (-)

Ion 54.00 (53.70 to 54.70): BM022762.D (-1281) (-)

Ion 68.00 (67.70 to 68.70): BM022762.D (-1281) (-)

Time-->



Abundance

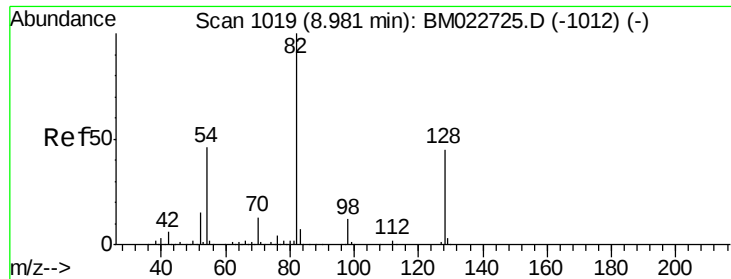
Ion 136.00 (135.70 to 136.70): BM022762.D (-1281) (-)

Ion 137.00 (136.70 to 137.70): BM022762.D (-1281) (-)

Ion 54.00 (53.70 to 54.70): BM022762.D (-1281) (-)

Ion 68.00 (67.70 to 68.70): BM022762.D (-1281) (-)

Time-->



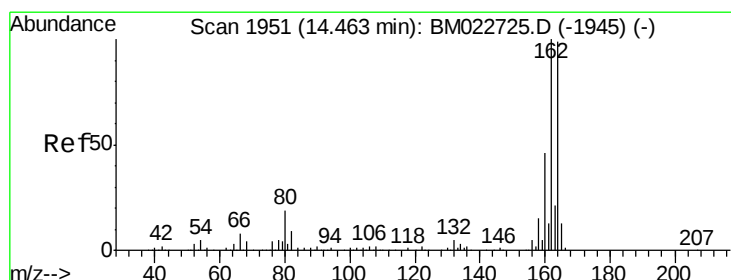
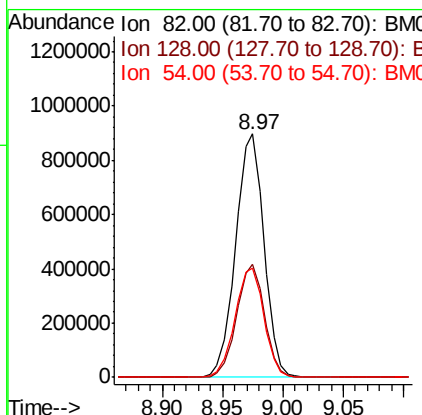
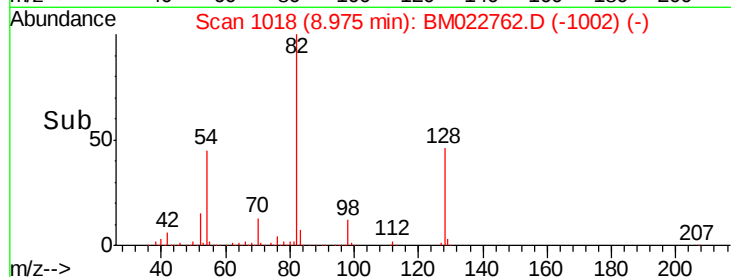
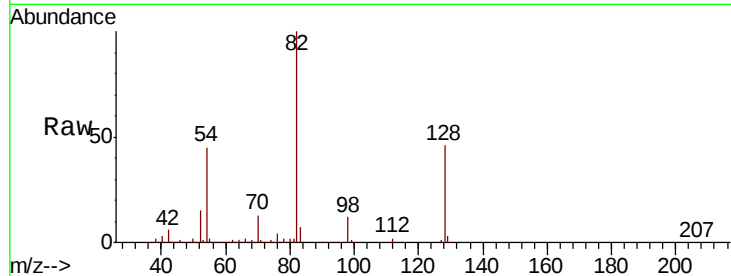
#23
Nitrobenzene-d5
Concen: 89.288 ng
RT: 8.97 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Instrument :
BNA_M
ClientSampleId :
WC-11-091919

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.2	36.0	54.0
54	45.0	37.1	55.7

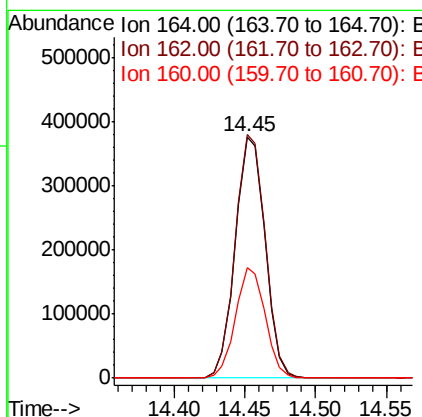
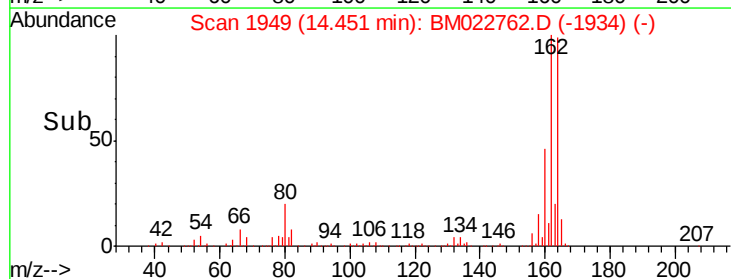
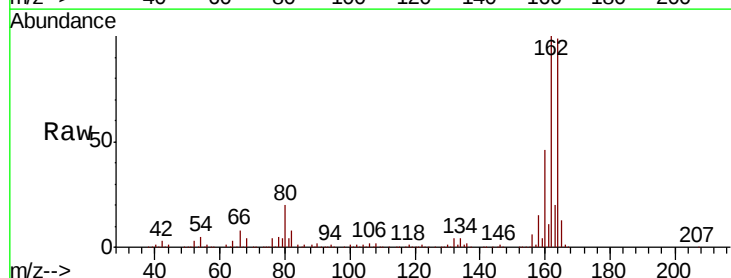
Manual Integrations
APPROVED

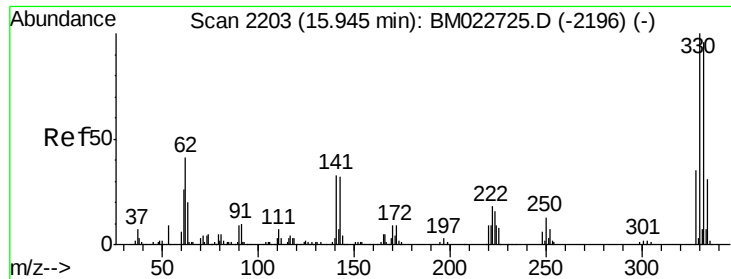
mohammad
9/26/2019 8:25:36 AM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.45 min Scan# 1949
Delta R.T. -0.01 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.1	121.7
160	45.9	36.9	55.3





#42

2,4,6-Tribromophenol

Concen: 146.308 ng

RT: 15.94 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Instrument :

BNA_M

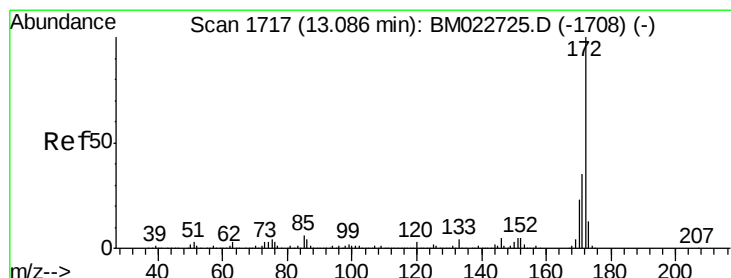
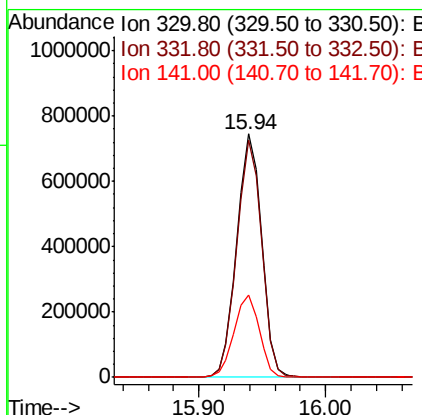
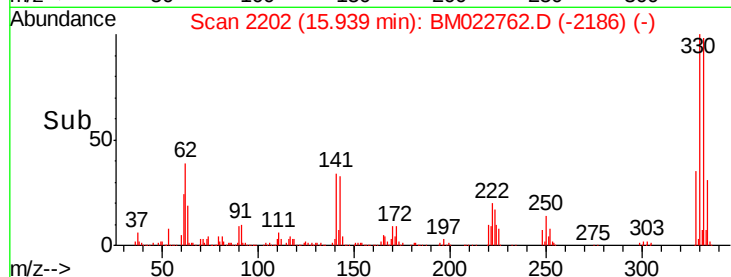
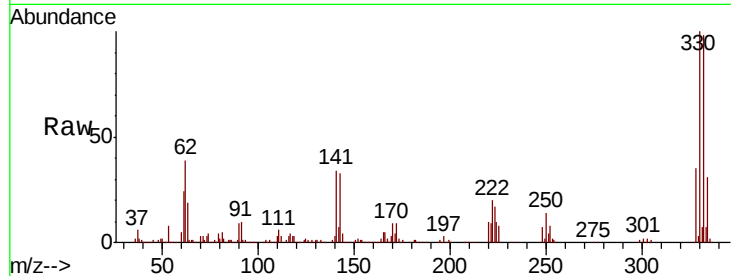
ClientSampleId :

WC-11-091919

Tot Ion:	330	Resp:	1015756
Ion Ratio	Lower	Upper	
330	100		
332	96.9	76.9	115.3
141	34.2	28.6	42.8

Manual Integrations
APPROVED

mohammad
9/26/2019 8:25:36 AM



#45

2-Fluorobiphenyl

Concen: 90.902 ng

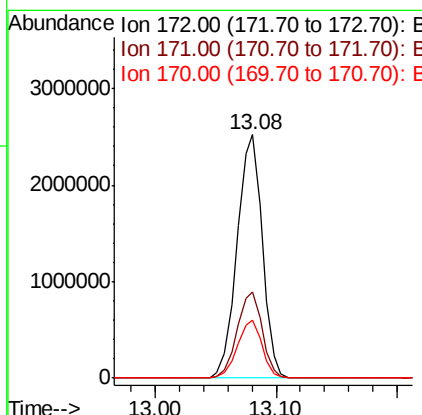
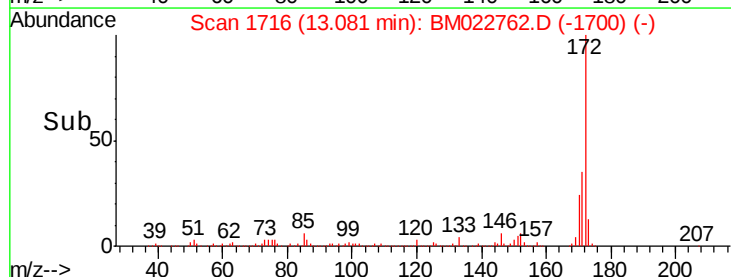
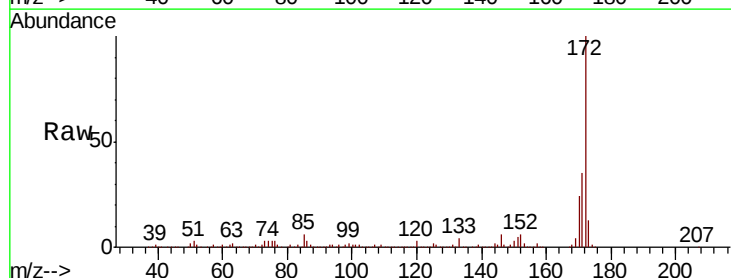
RT: 13.08 min Scan# 1716

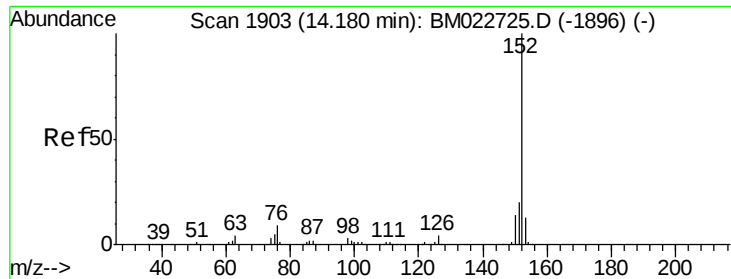
Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Tgt Ion:	172	Resp:	3671249
Ion Ratio	Lower	Upper	
172	100		
171	35.3	27.8	41.8
170	23.7	18.7	28.1





#49

Acenaphthylene

Concen: 2.640 ng

RT: 14.17 min Scan# 1902

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Instrument :

BNA_M

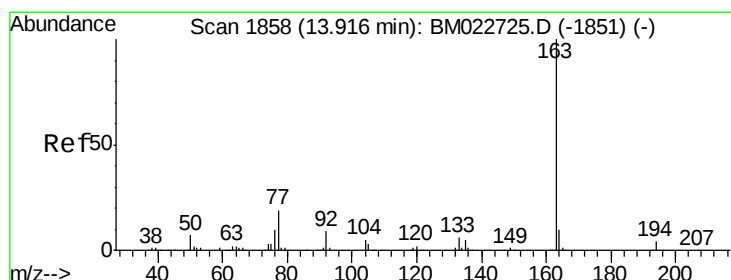
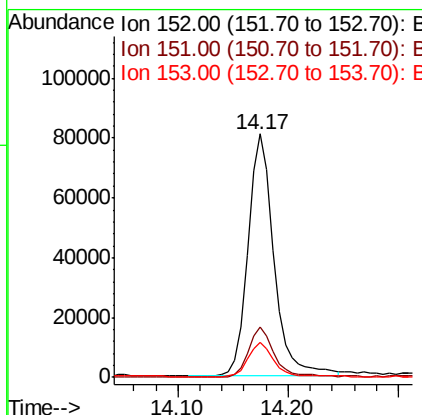
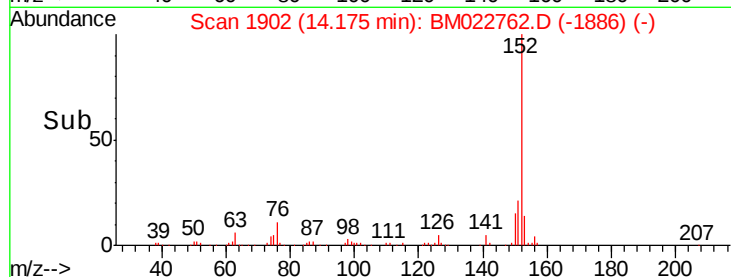
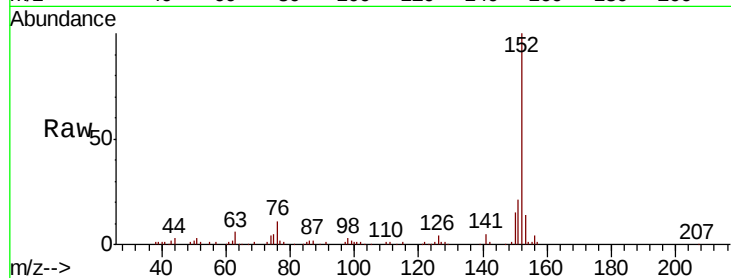
ClientSampled :

WC-11-091919

Tot Ion:	152	Resp:	134119
Ion Ratio	Lower	Upper	
152	100		
151	20.9	15.9	23.9
153	14.2	10.5	15.7

Manual Integrations
APPROVED

mohammad
9/26/2019 8:25:36 AM



#50

Dimethylphthalate

Concen: 5.294 ng

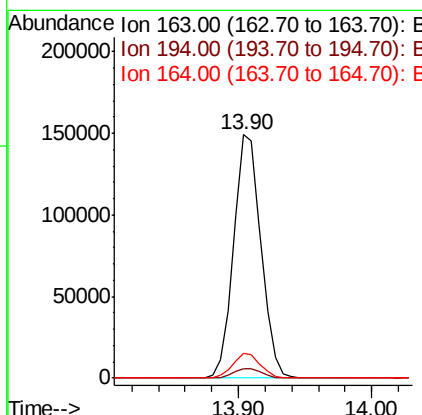
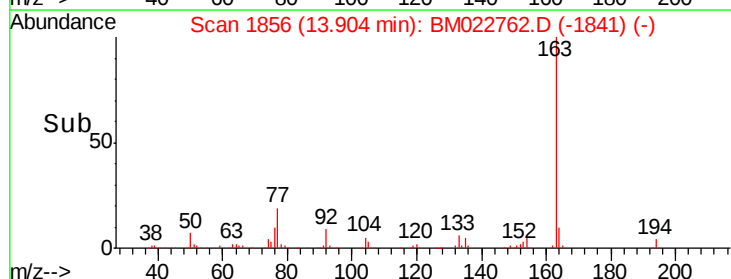
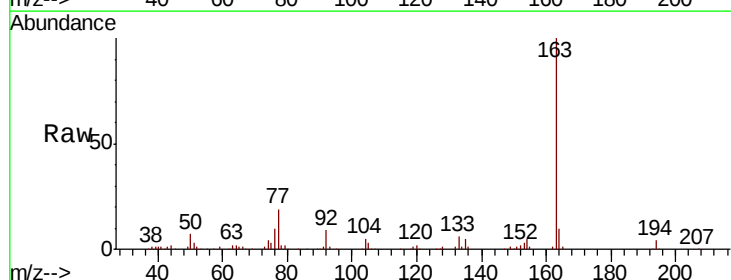
RT: 13.90 min Scan# 1856

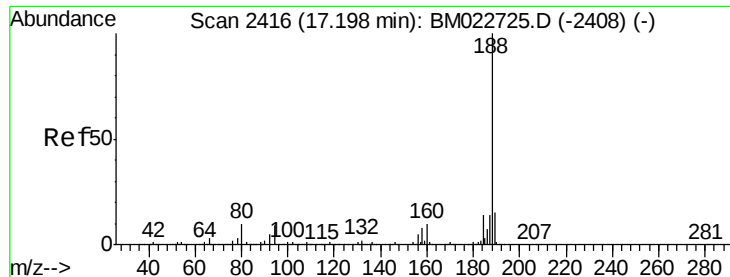
Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Tgt Ion:	163	Resp:	212772
Ion Ratio	Lower	Upper	
163	100		
194	4.0	3.3	4.9
164	10.2	8.2	12.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.19 min Scan# 2415

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Instrument :

BNA_M

ClientSampled :

WC-11-091919

Tot Ion:188 Resp: 1158493

Ion Ratio Lower Upper

188 100

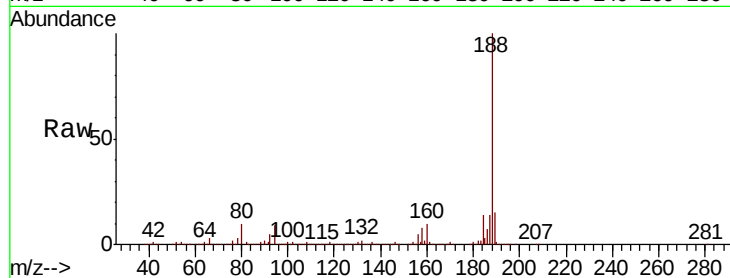
94 8.9 7.3 10.9

80 9.9 7.8 11.8

Manual Integrations
APPROVED

mohammad

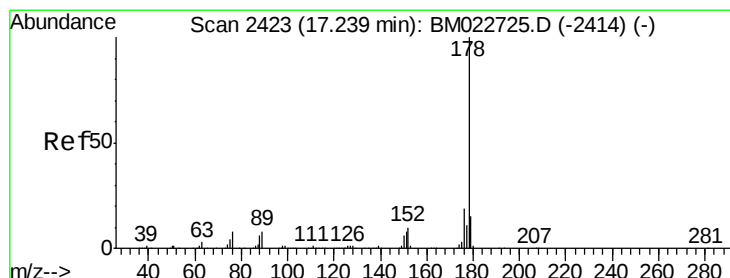
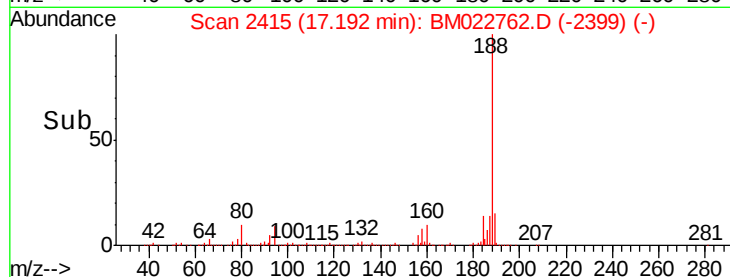
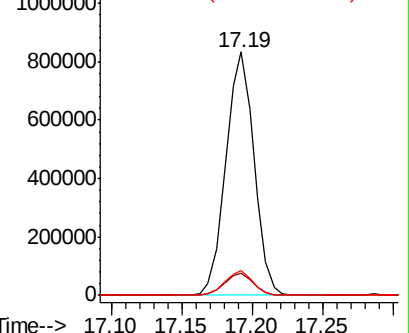
9/26/2019 8:25:36 AM



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: 8.135 ng

RT: 17.23 min Scan# 2422

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

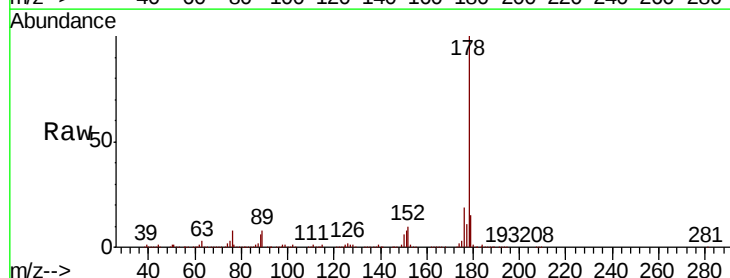
Tgt Ion:178 Resp: 531763

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

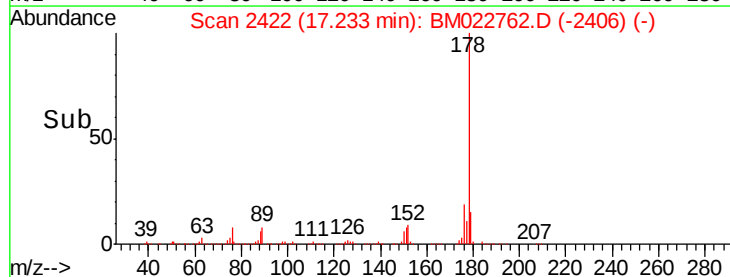
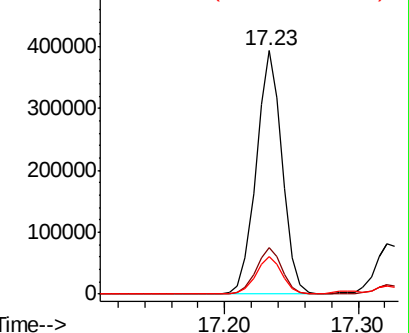
179 15.2 12.3 18.5

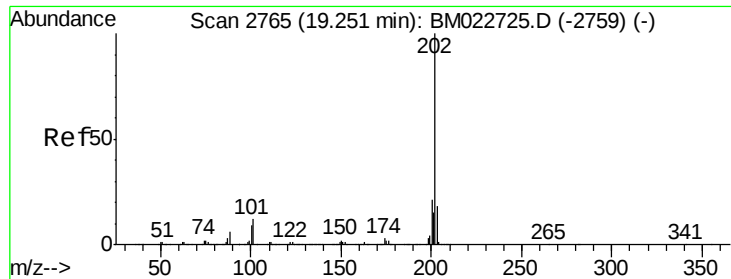


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 12.614 ng

RT: 19.24 min Scan# 2764

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Instrument :

BNA_M

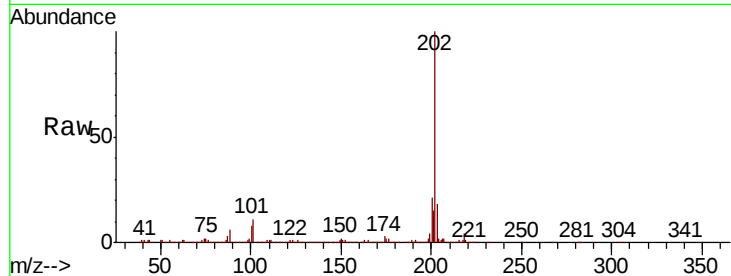
ClientSampleId :

WC-11-091919

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		930425		
101	11.1	0.0	32.1		
203	17.7	0.0	37.7		

Manual Integrations
APPROVED

mohammad
9/26/2019 8:25:36 AM

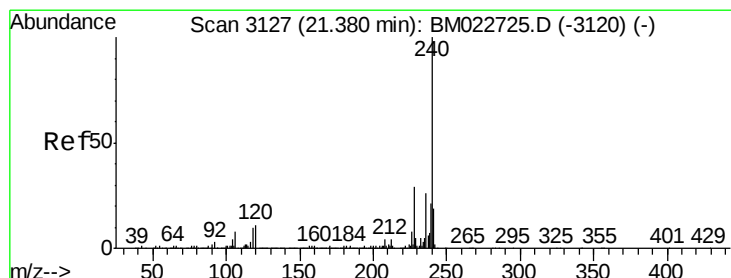
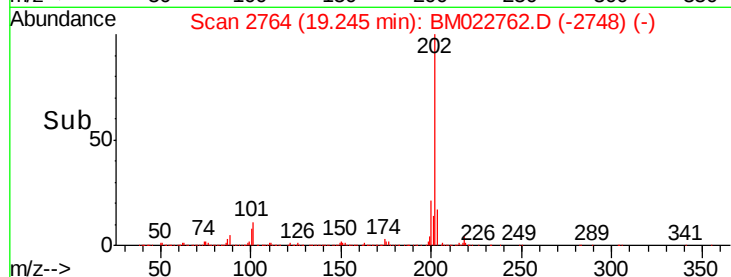
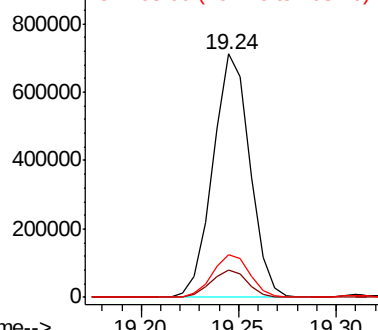


Abundance

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

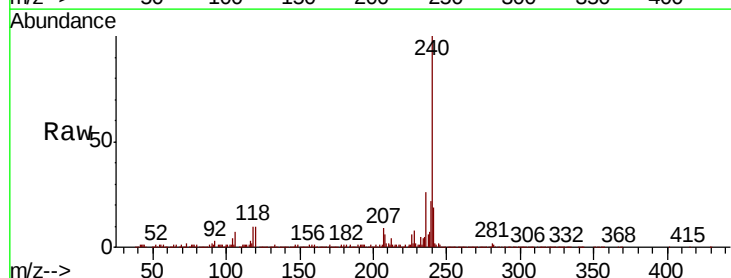
RT: 21.37 min Scan# 3125

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		1049645		
120	10.4	8.8	13.2		
236	26.3	20.8	31.2		

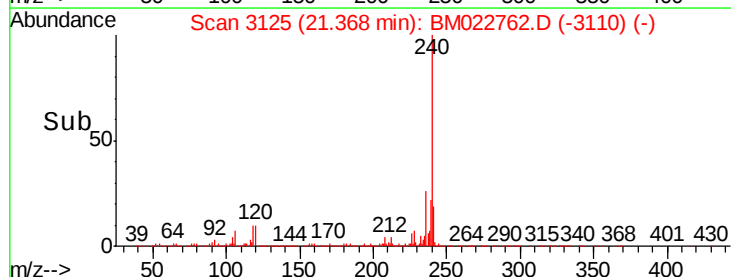
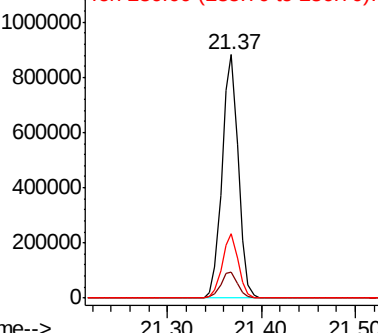


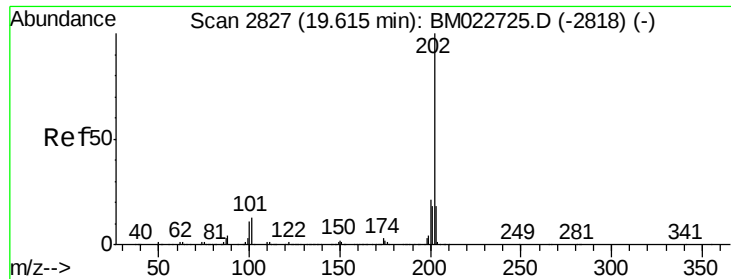
Abundance

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





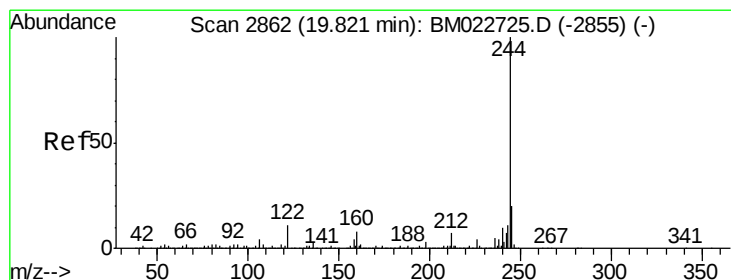
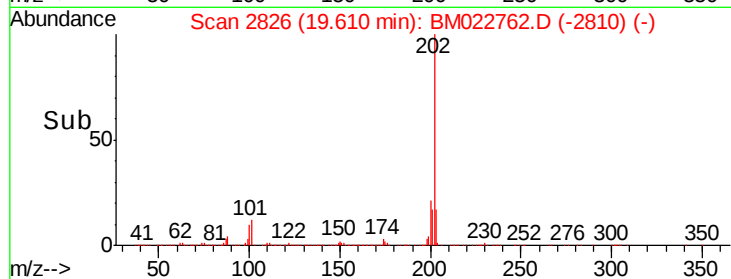
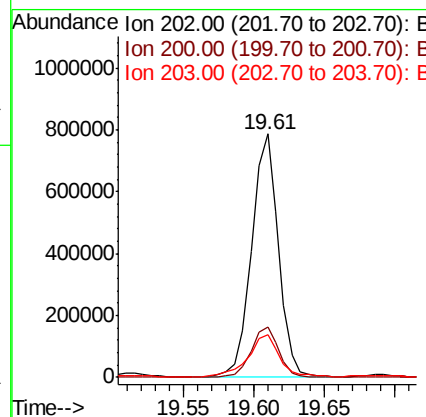
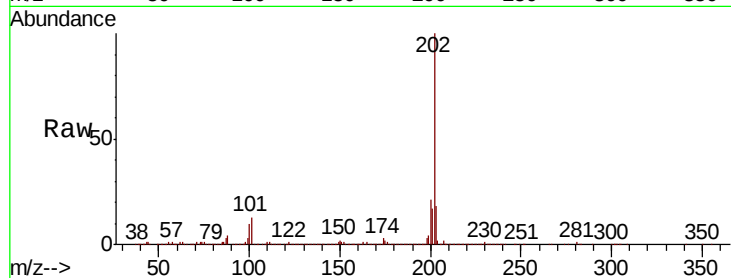
#78
Pvrene
Concen: 15.150 ng
RT: 19.61 min Scan# 2826
Delta R.T. -0.01 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Instrument :
BNA_M
ClientSampleId :
WC-11-091919

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.6	14.1	21.1

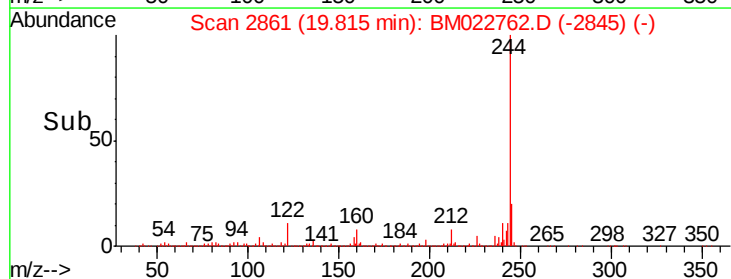
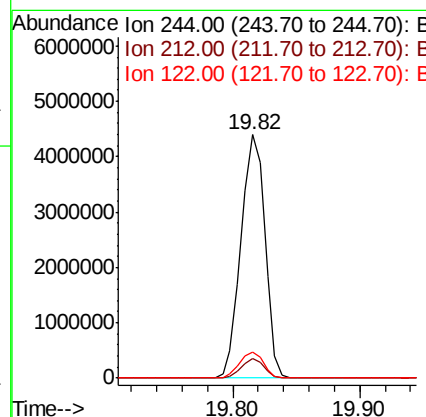
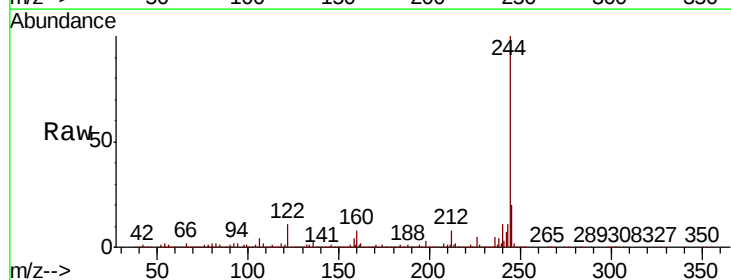
Manual Integrations
APPROVED

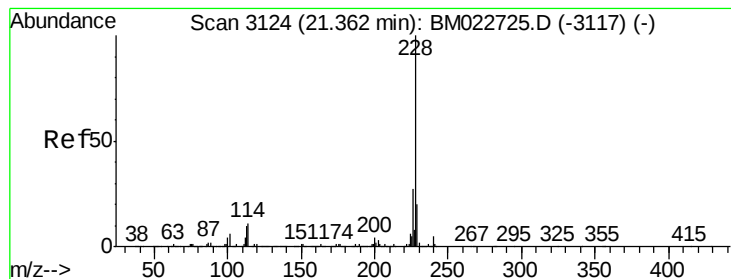
mohammad
9/26/2019 8:25:36 AM



#79
Terphenyl-d14
Concen: 105.972 ng
RT: 19.82 min Scan# 2861
Delta R.T. -0.01 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.8	5.9	8.9
122	10.8	9.0	13.4





#81

Benzo(a)anthracene

Concen: 7.079 ng

RT: 21.35 min Scan# 3122

Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Instrument :

BNA_M

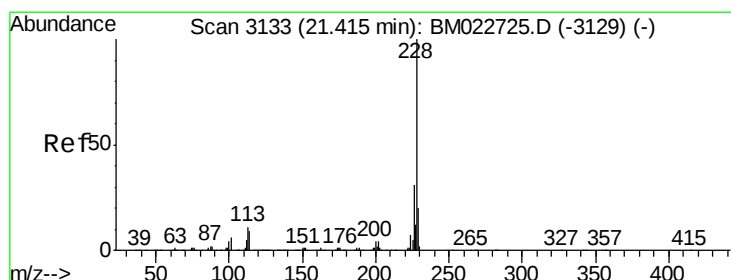
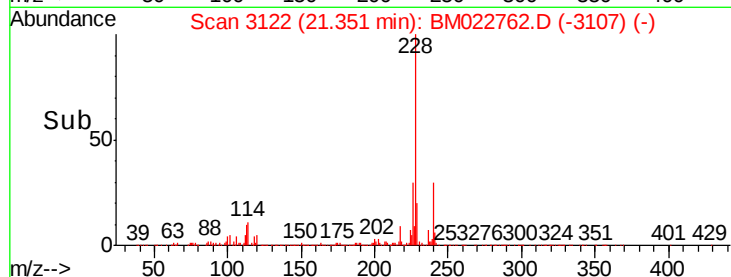
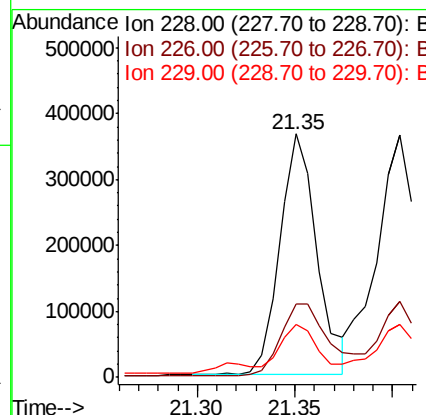
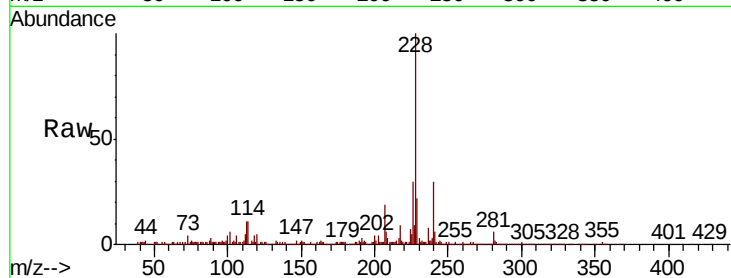
ClientSampleId :

WC-11-091919

Tot Ion:	228	Resp:	481561
Ion Ratio	Lower	Upper	
228	100		
226	30.1	22.0	33.0
229	21.6	15.9	23.9

Manual Integrations
APPROVED

mohammad
9/26/2019 8:25:36 AM



#83

Chrysene

Concen: 7.744 ng

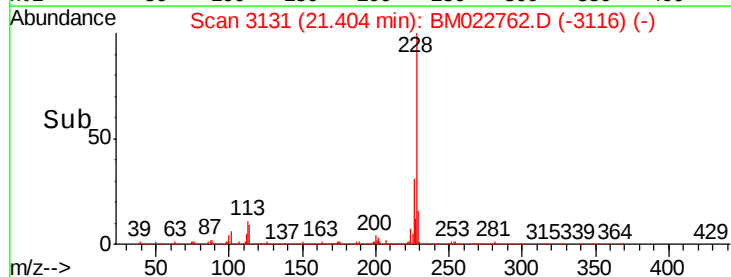
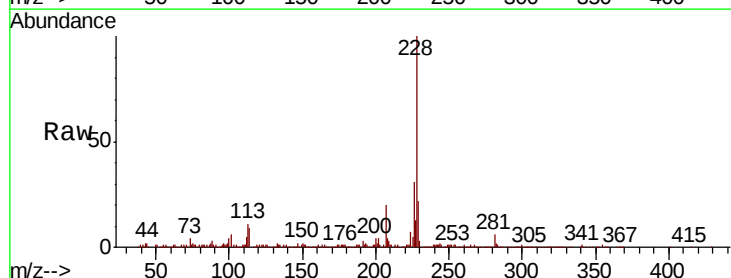
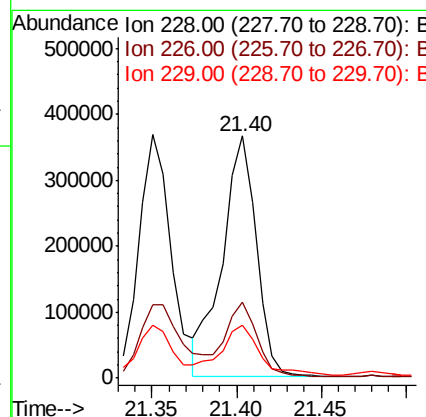
RT: 21.40 min Scan# 3131

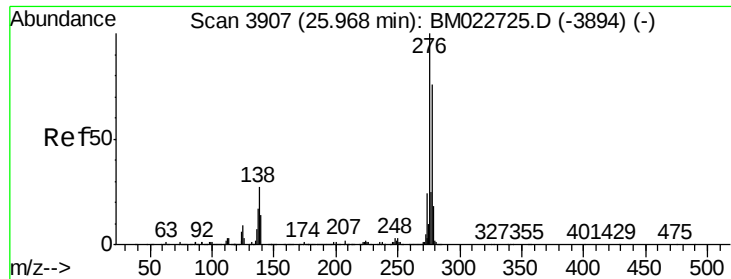
Delta R.T. -0.01 min

Lab File: BM022762.D

Acq: 24 Sep 2019 22:40

Tgt Ion:	228	Resp:	510761
Ion Ratio	Lower	Upper	
228	100		
226	31.1	24.5	36.7
229	22.1	15.9	23.9





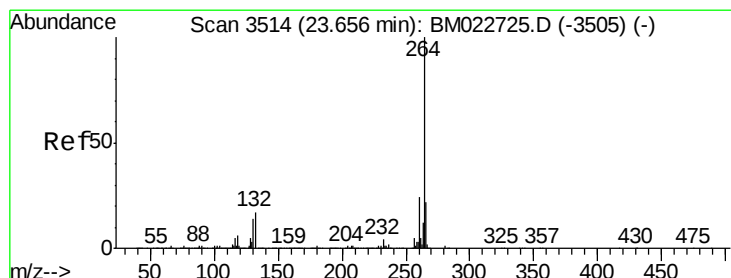
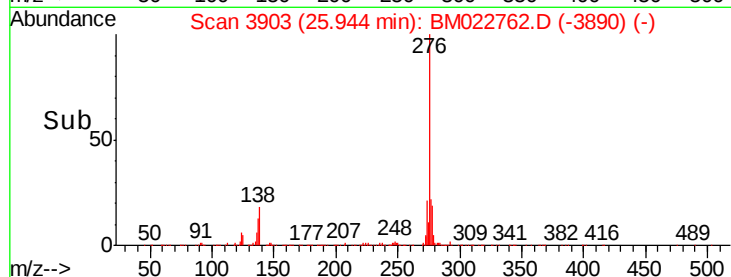
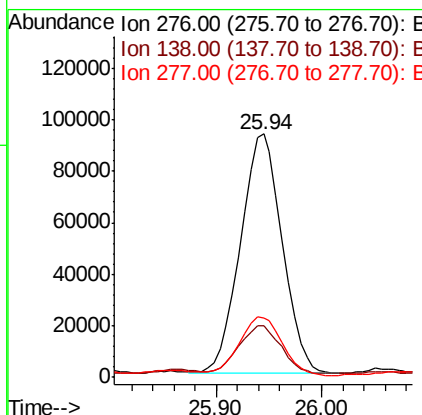
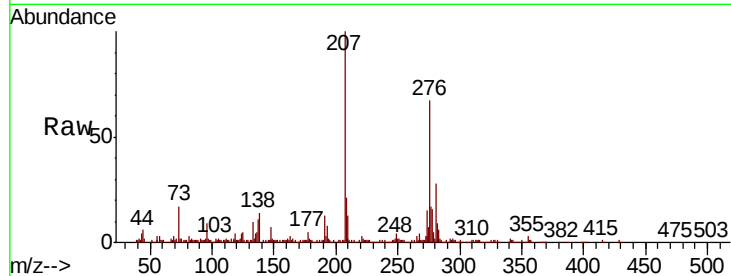
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.239 ng
 RT: 25.94 min Scan# 3903
 Delta R.T. -0.02 min
 Lab File: BM022762.D
 Acq: 24 Sep 2019 22:40

Instrument :
 BNA_M
 ClientSampleId :
 WC-11-091919

Tot Ion	Ratio	Resp	Lower	Upper
276	100	254965		
138	20.1	0.0	0.0#	
277	25.0	0.0	0.0#	

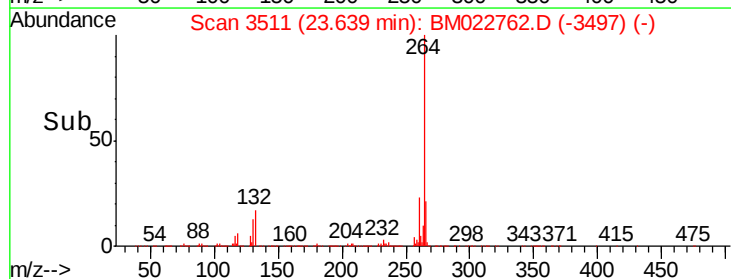
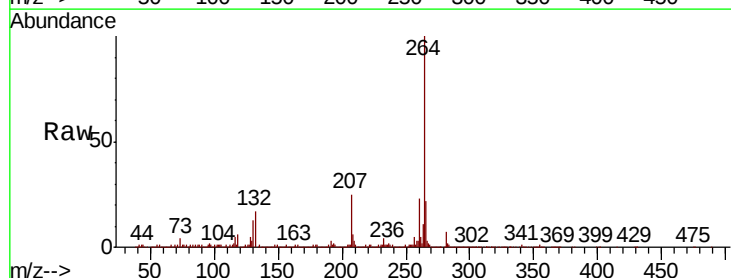
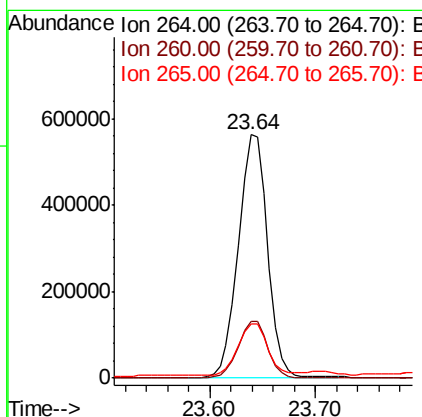
Manual Integrations
 APPROVED

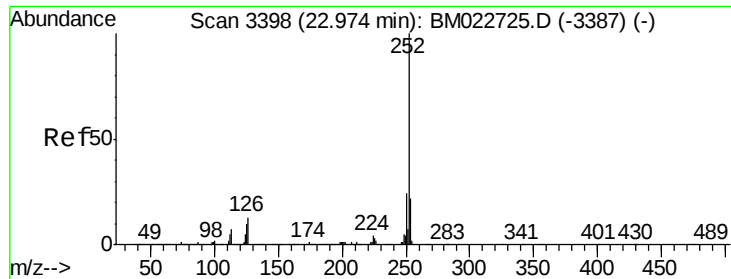
mohammad
 9/26/2019 8:25:36 AM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.64 min Scan# 3511
 Delta R.T. -0.02 min
 Lab File: BM022762.D
 Acq: 24 Sep 2019 22:40

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	1078007		
260	23.2	19.1	28.7	
265	22.3	17.9	26.9	





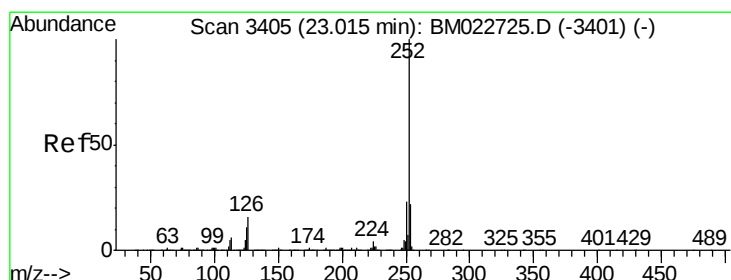
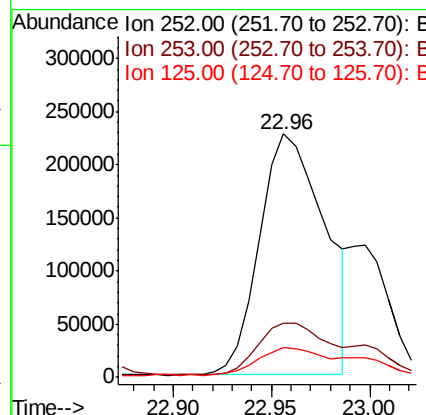
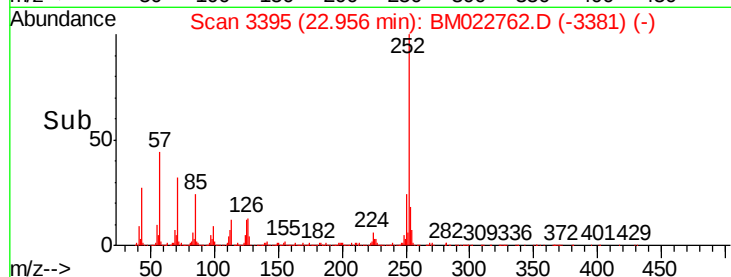
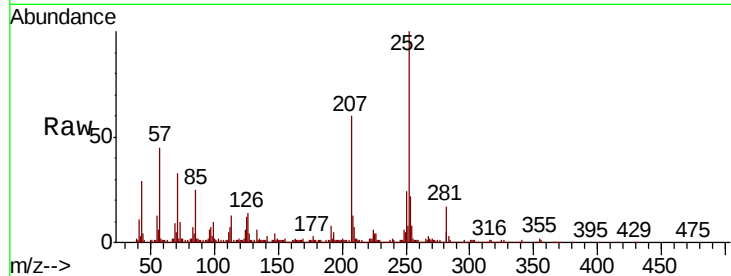
#88
Benzo(b)fluoranthene
Concen: 7.916 ng m
RT: 22.96 min Scan# 3395
Delta R.T. -0.02 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Instrument :
BNA_M
ClientSampleId :
WC-11-091919

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.7	26.5
125	12.4	8.2	12.4#

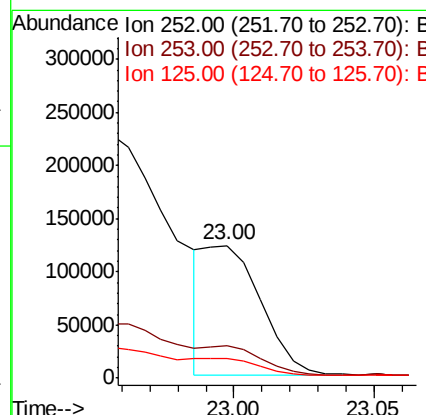
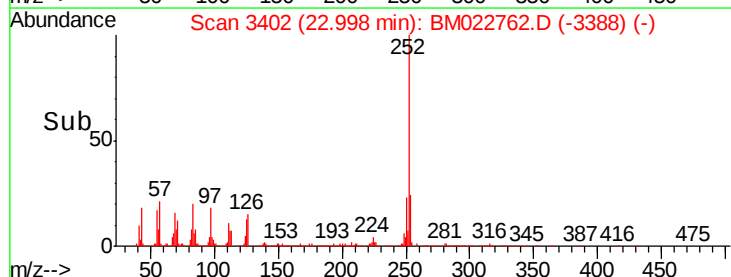
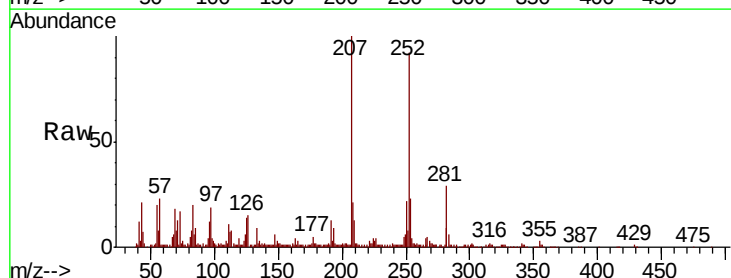
Manual Integrations
APPROVED

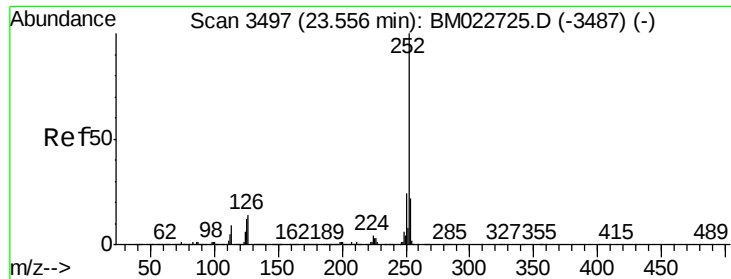
mohammad
9/26/2019 8:25:36 AM



#89
Benzo(k)fluoranthene
Concen: 2.582 ng m
RT: 23.00 min Scan# 3402
Delta R.T. -0.02 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.7	26.5
125	14.9	8.5	12.7#





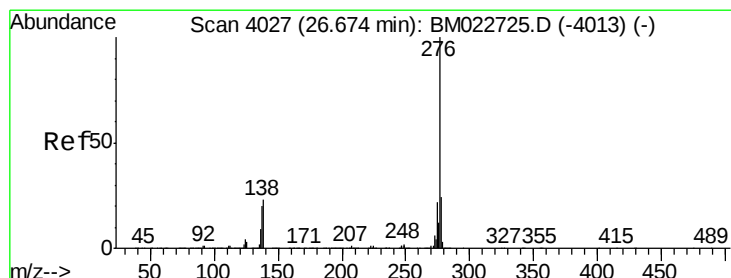
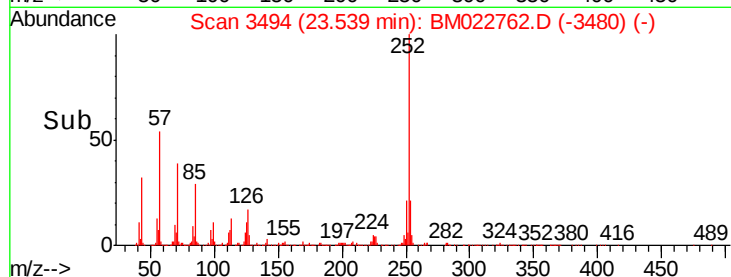
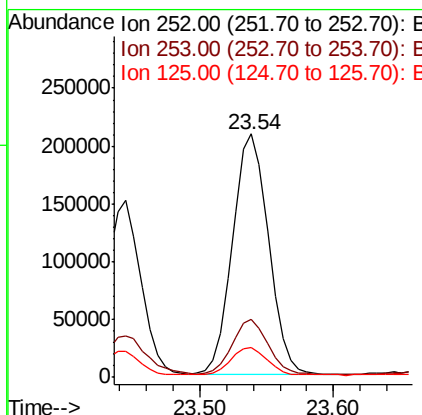
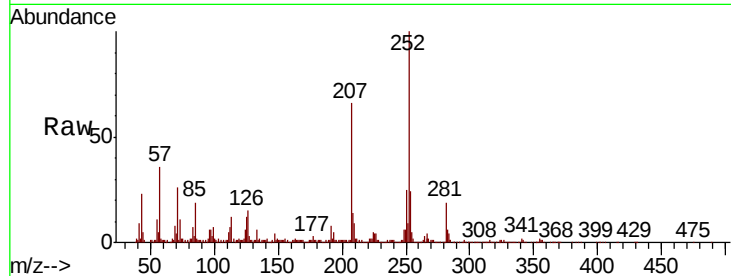
#90
Benzo(a)pyrene
Concen: 6.493 ng
RT: 23.54 min Scan# 3494
Delta R.T. -0.02 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Instrument :
BNA_M
ClientSampled :
WC-11-091919

Tot Ion:	252	Resp:	390538
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.3	25.9
125	12.0	9.3	13.9

Manual Integrations
APPROVED

mohammad
9/26/2019 8:25:36 AM



#92
Benzo(g,h,i)perylene
Concen: 4.361 ng
RT: 26.65 min Scan# 4023
Delta R.T. -0.02 min
Lab File: BM022762.D
Acq: 24 Sep 2019 22:40

Tgt Ion:	276	Resp:	260556
Ion Ratio	Lower	Upper	
276	100		
277	23.3	19.1	28.7
138	22.4	18.5	27.7

