

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100421\
 Data File : BN016769.D
 Acq On : 06 Oct 2021 08:06
 Operator : CG/JU
 Sample : M3892-19 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-832-J-SO-2-2.5-092221-FD

Manual Integrations
 APPROVED

mohammad
 10/7/2021 8:32:05 AM

Quant Time: Oct 06 10:29:15 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN100421.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 04 17:52:33 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.642	152	28100	0.40	ng	0.00
7) Naphthalene-d8	10.406	136	130608	0.40	ng	# 0.00
13) Acenaphthene-d10	14.268	164	74807	0.40	ng	0.00
19) Phenanthrene-d10	17.017	188	147886	0.40	ng	#-0.01
29) Chrysene-d12	21.238	240	144877	0.40	ng	0.00
35) Perylene-d12	23.488	264	149288	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.263	112	3493	0.05	ng	0.00
5) Phenol-d6	6.821	99	3624	0.05	ng	0.00
8) Nitrobenzene-d5	8.784	82	3929	0.04	ng	0.00
11) 2-Methylnaphthalene-d10	12.003	152	9094	0.05	ng	0.00
14) 2,4,6-Tribromophenol	15.766	330	1700	0.16	ng	-0.01
15) 2-Fluorobiphenyl	12.886	172	11531	0.04	ng	-0.01
27) Fluoranthene-d10	19.068	212	18120	0.04	ng	0.00
31) Terphenyl-d14	19.678	244	14885	0.05	ng	0.00
Target Compounds						
9) Naphthalene	10.457	128	8893	0.02	ng	# 95
17) Acenaphthene	14.332	154	19533	0.09	ng	99
18) Fluorene	15.322	166	22370	0.08	ng	97
25) Phenanthrene	17.066	178	392792	0.90	ng	100
26) Anthracene	17.151	178	117894	0.30	ng	96
28) Fluoranthene	19.097	202	1358501	2.82	ng	100
30) Pyrene	19.460	202	1254213	2.63	ng	# 92
32) Benzo(a)anthracene	21.217	228	915075	2.04	ng	98
33) Chrysene	21.270	228	818532m	1.80	ng	
34) Bis(2-ethylhexyl)phtha...	21.163	149	65668	0.24	ng	97
36) Indeno(1,2,3-cd)pyrene	25.764	276	309807	0.65	ng	98
37) Benzo(b)fluoranthene	22.813	252	1041674	2.16	ng	97
38) Benzo(k)fluoranthene	22.854	252	349215m	0.75	ng	
39) Benzo(a)pyrene	23.388	252	709344	1.64	ng	97
40) Dibenzo(a,h)anthracene	25.781	278	89193	0.24	ng	# 79
41) Benzo(g,h,i)perylene	26.466	276	269611	0.64	ng	97

mohammad

10/7/2021 8:32:05 AM

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

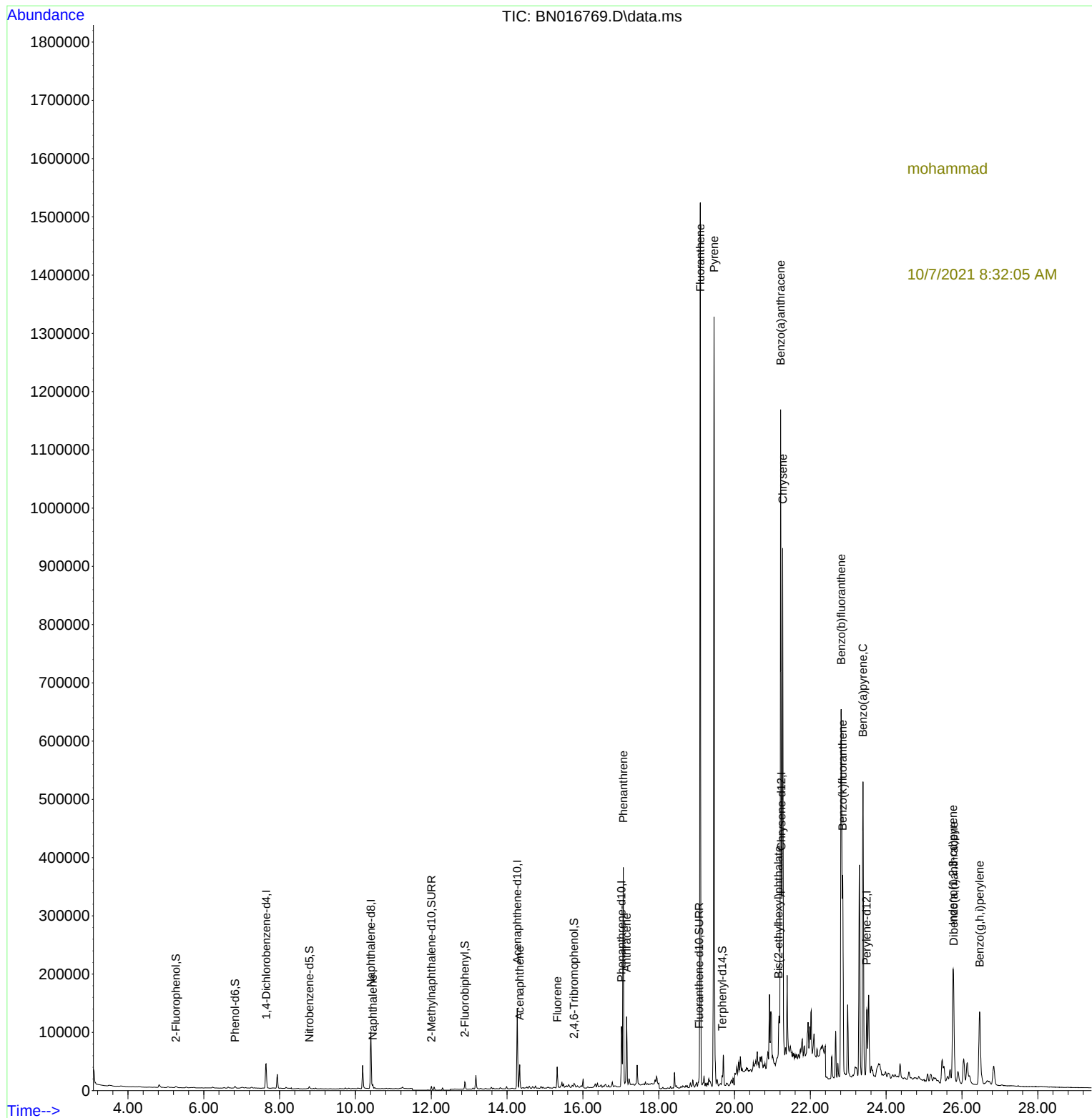
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100421\
Data File : BN016769.D
Acq On : 06 Oct 2021 08:06
Operator : CG/JU
Sample : M3892-19 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

Manual Integrations
APPROVED

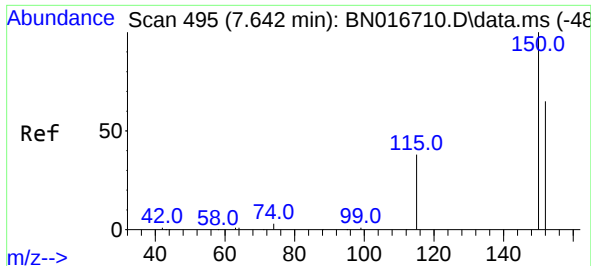
mohammad
10/7/2021 8:32:05 AM

Quant Time: Oct 06 10:29:15 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN100421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 04 17:52:33 2021
Response via : Initial Calibration

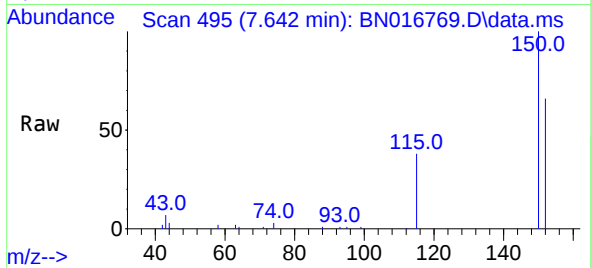


mohammad

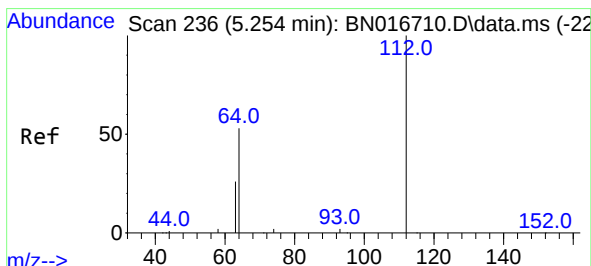
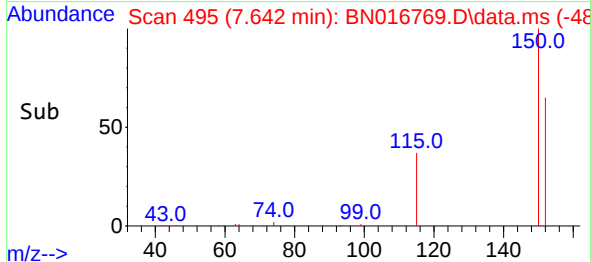
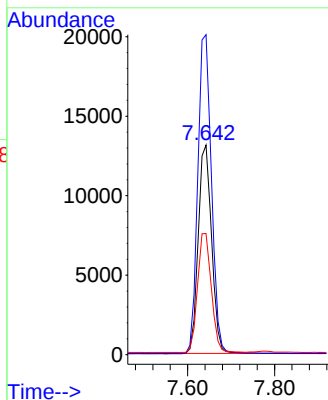
10/7/2021 8:32:05 AM



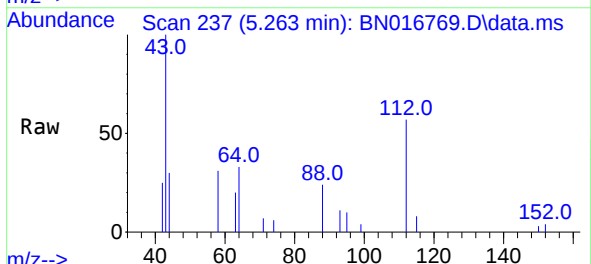
#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.642 min Scan# 495
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06



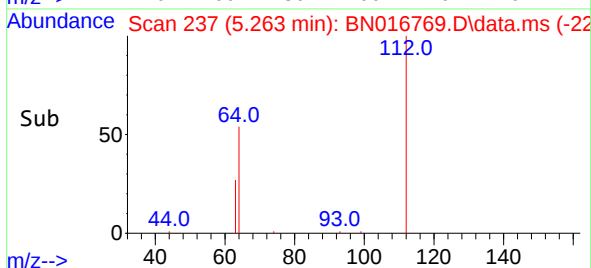
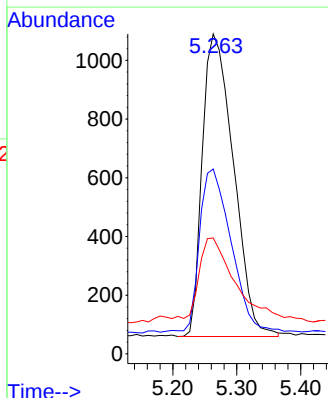
Tgt Ion:152 Resp: 28100
Ion Ratio Lower Upper
152 100
150 152.7 123.3 184.9
115 57.8 47.0 70.6



#4
2-Fluorophenol
Concen: 0.05 ng
RT: 5.263 min Scan# 237
Delta R.T. 0.009 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06



Tgt Ion:112 Resp: 3493
Ion Ratio Lower Upper
112 100
64 54.3 42.9 64.3
63 29.1 21.5 32.3



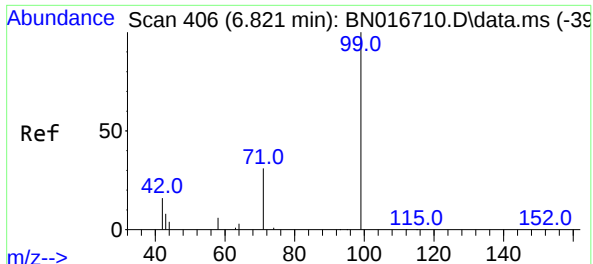
Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM

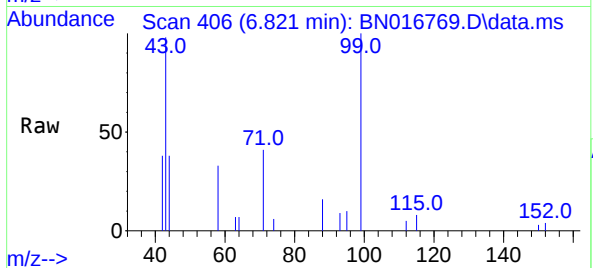
mohammad

10/7/2021 8:32:05 AM



#5
Phenol-d6
Concen: 0.05 ng
RT: 6.821 min Scan# 406
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

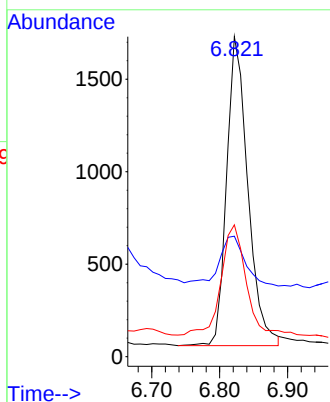
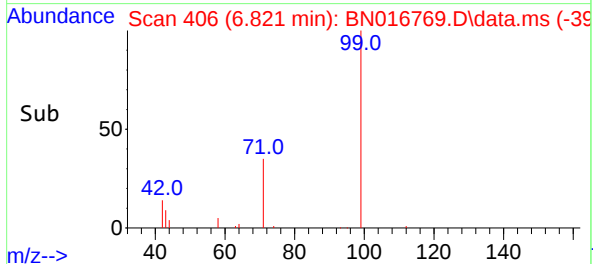
Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD



Tgt Ion: 99 Resp: 3624
Ion Ratio Lower Upper
99 100
42 19.6 13.4 20.2
71 41.1 24.0 36.0#

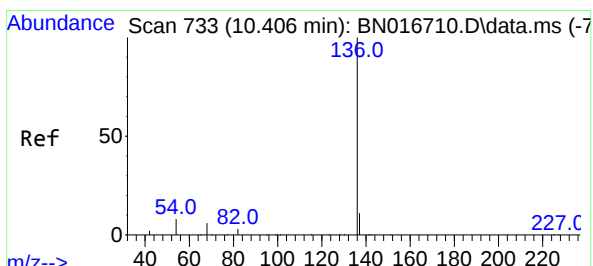
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM

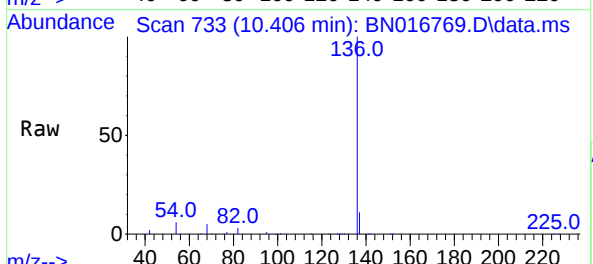


mohammad

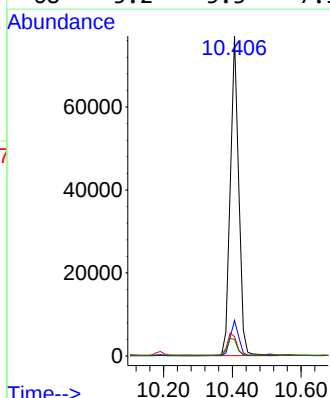
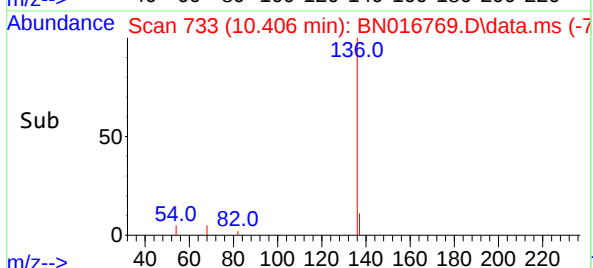
10/7/2021 8:32:05 AM

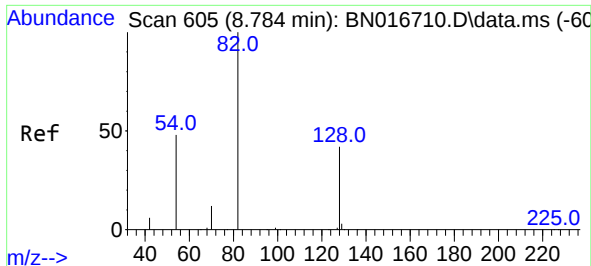


#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.406 min Scan# 733
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06



Tgt Ion: 136 Resp: 130608
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 6.1 6.5 9.7#
68 5.2 5.3 7.9#





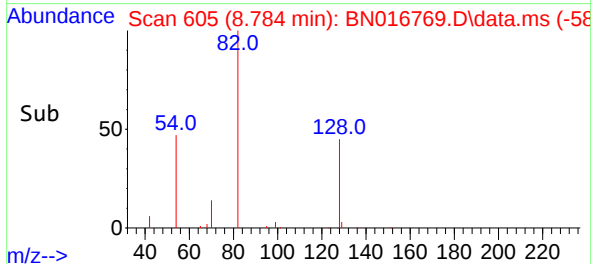
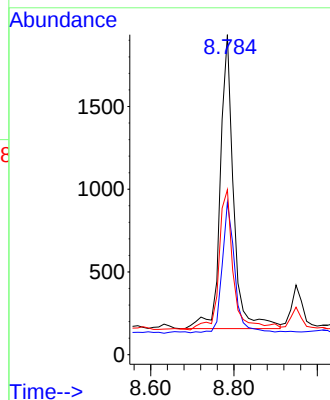
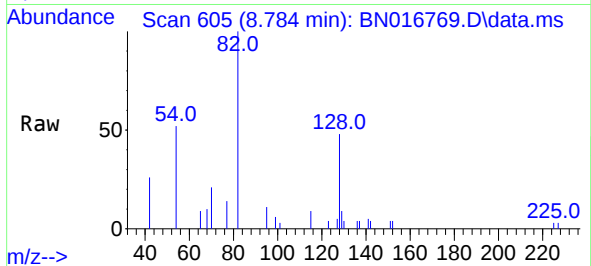
#8
Nitrobenzene-d5
Concen: 0.04 ng
RT: 8.784 min Scan# 605
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:	82	Resp:	3929
Ion	Ratio	Lower	Upper
82	100		
128	47.7	33.8	50.6
54	51.6	38.5	57.7

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

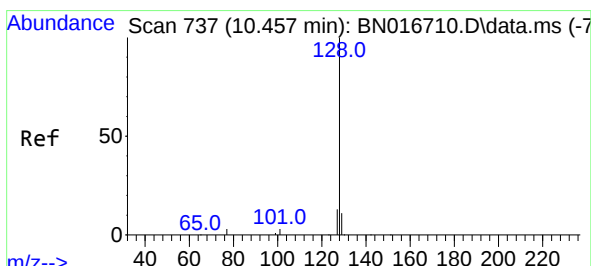
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



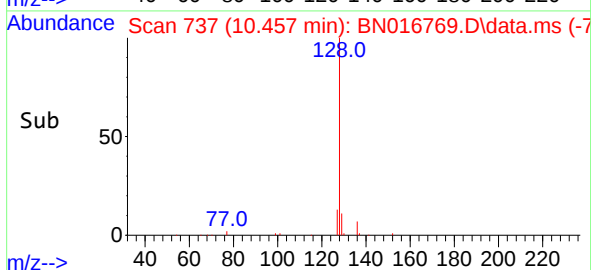
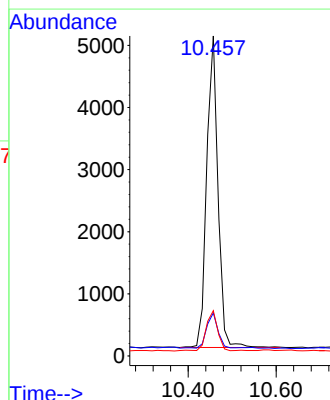
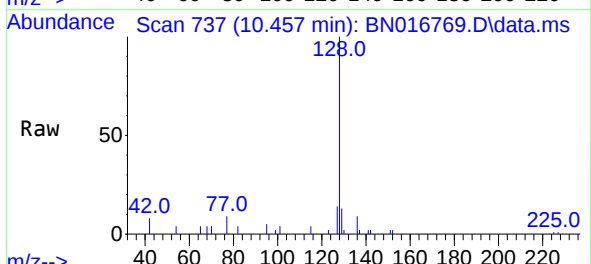
mohammad

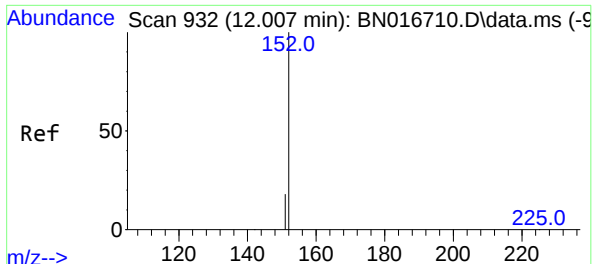
10/7/2021 8:32:05 AM



#9
Naphthalene
Concen: 0.02 ng
RT: 10.457 min Scan# 737
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:	128	Resp:	8893
Ion	Ratio	Lower	Upper
128	100		
129	13.4	8.7	13.1#
127	14.1	10.3	15.5





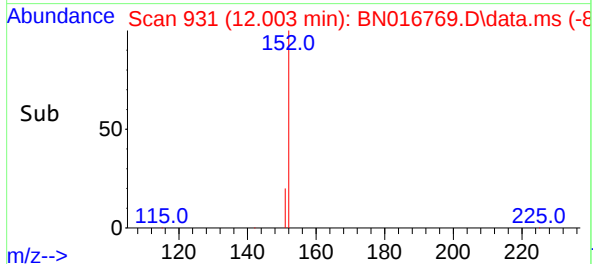
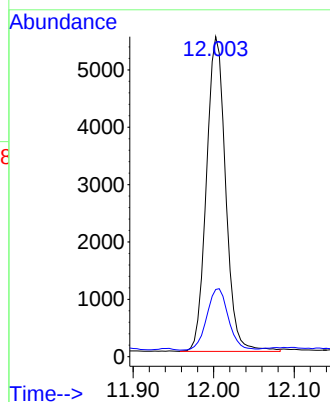
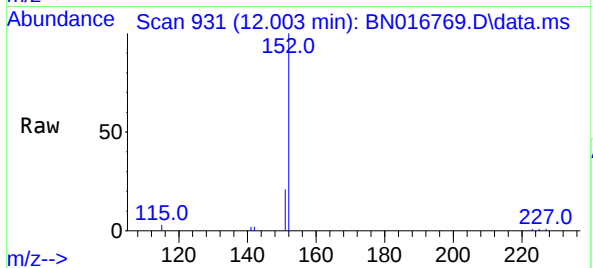
#11
2-Methylnaphthalene-d10
Concen: 0.05 ng
RT: 12.003 min Scan# 931
Delta R.T. -0.004 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:152 Resp: 9094
Ion Ratio Lower Upper
152 100
151 21.9 16.2 24.4

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

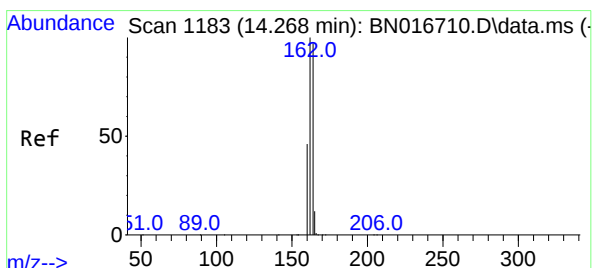
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



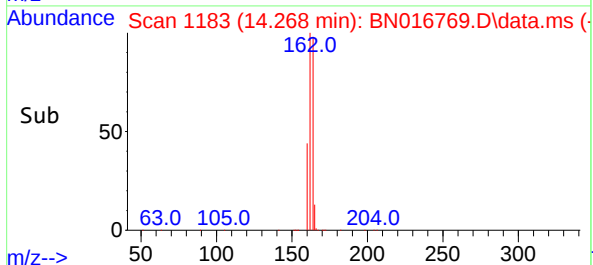
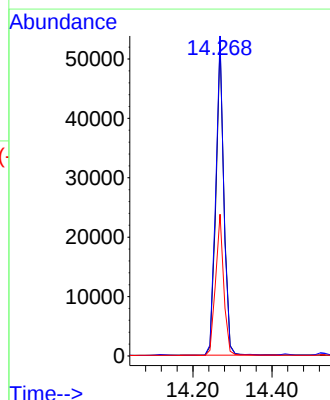
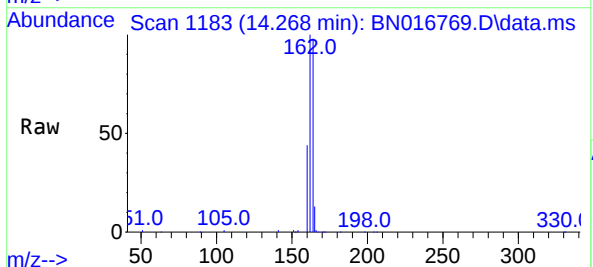
mohammad

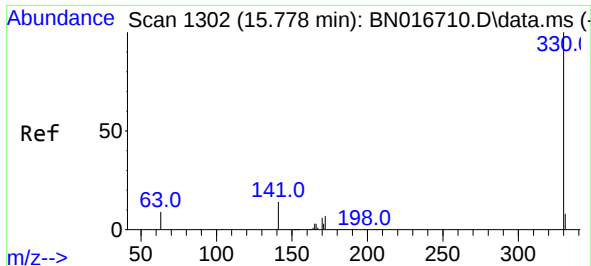
10/7/2021 8:32:05 AM



#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.268 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:164 Resp: 74807
Ion Ratio Lower Upper
164 100
162 101.9 82.6 124.0
160 45.2 38.2 57.2





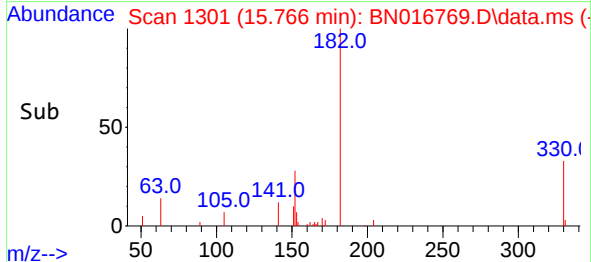
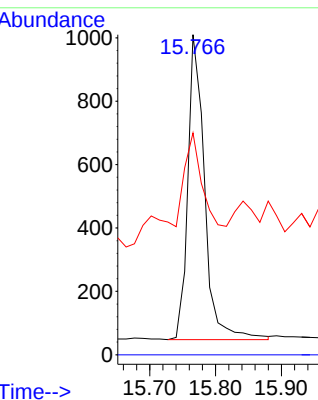
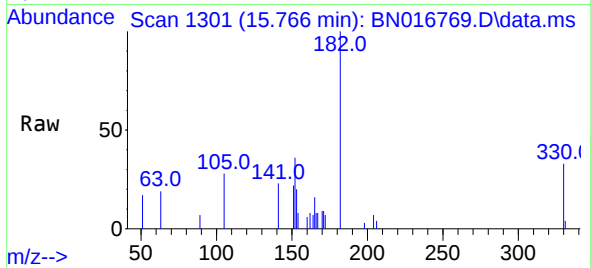
#14
2,4,6-Tribromophenol
Concen: 0.16 ng
RT: 15.766 min Scan# 1301
Delta R.T. -0.012 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion: 330 Resp: 1700
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 30.1 24.2 36.2

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

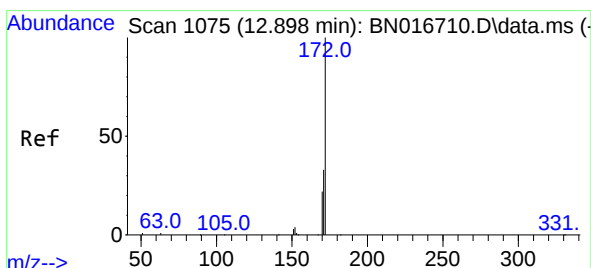
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



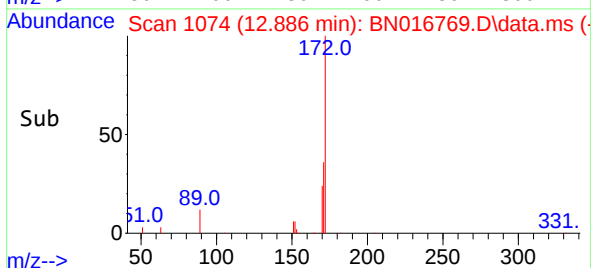
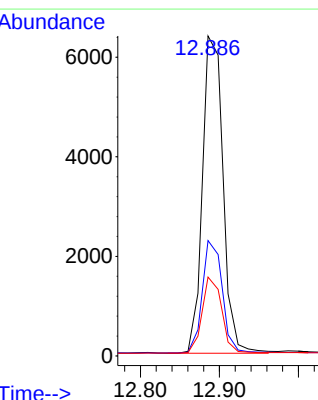
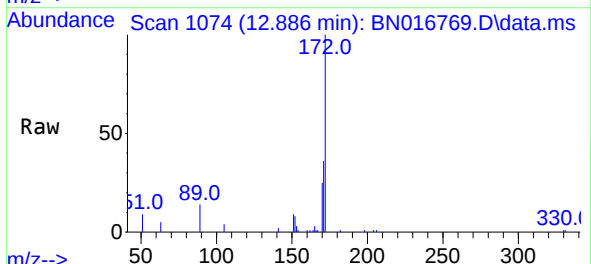
mohammad

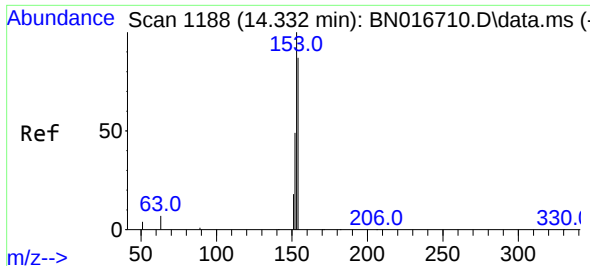
10/7/2021 8:32:05 AM



#15
2-Fluorobiphenyl
Concen: 0.04 ng
RT: 12.886 min Scan# 1074
Delta R.T. -0.012 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion: 172 Resp: 11531
Ion Ratio Lower Upper
172 100
171 36.1 26.9 40.3
170 24.6 17.4 26.0





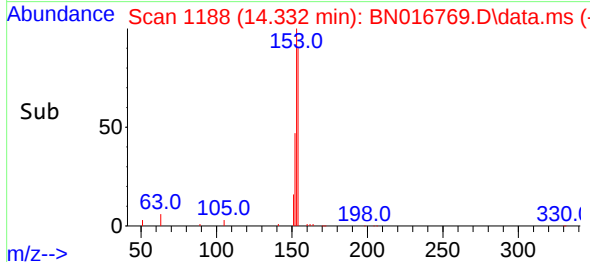
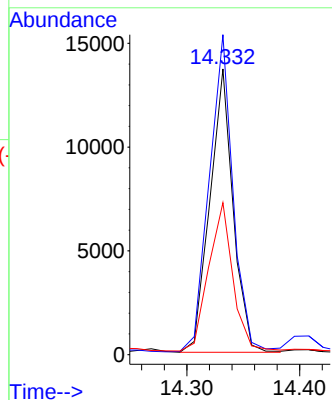
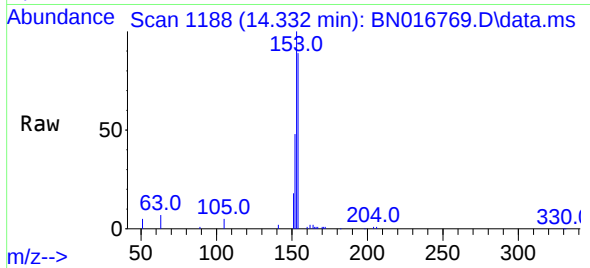
#17
Acenaphthene
Concen: 0.09 ng
RT: 14.332 min Scan# 1188
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.8	90.1	135.1
152	55.1	43.6	65.4

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

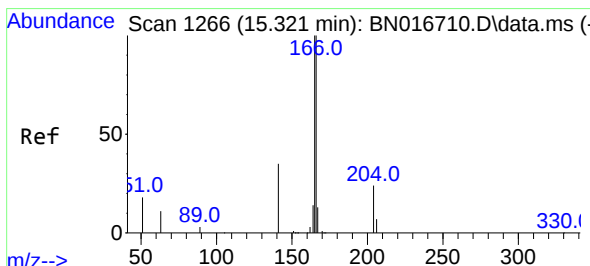
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



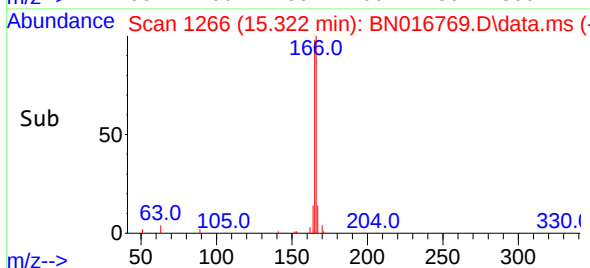
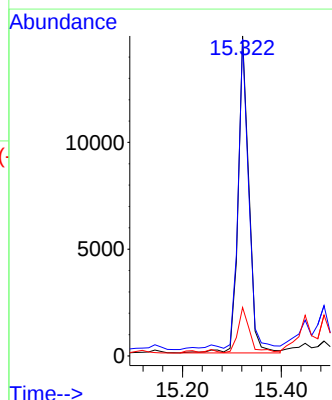
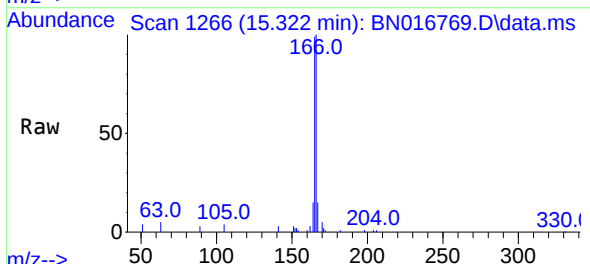
mohammad

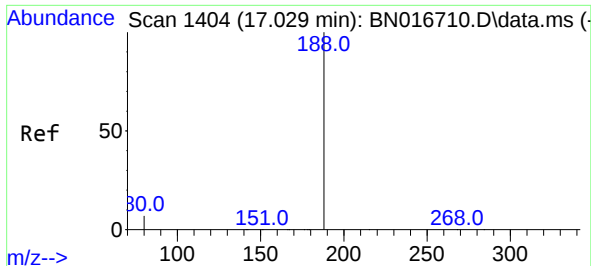
10/7/2021 8:32:05 AM



#18
Fluorene
Concen: 0.08 ng
RT: 15.322 min Scan# 1266
Delta R.T. 0.001 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.2	78.1	117.1
167	15.3	10.7	16.1





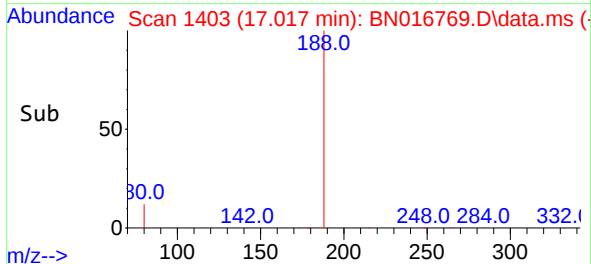
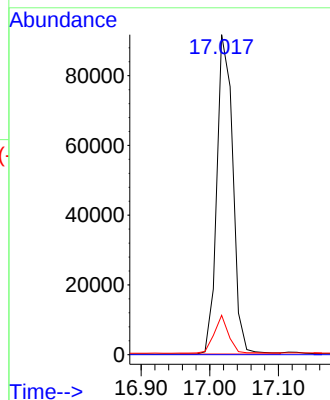
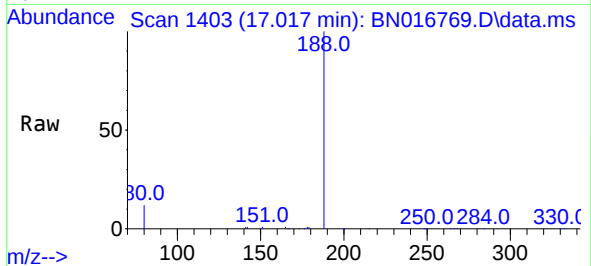
#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.017 min Scan# 1403
Delta R.T. -0.012 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:188 Resp: 147886
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.3 5.8 8.8#

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

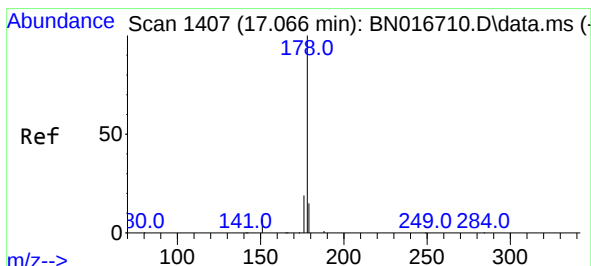
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



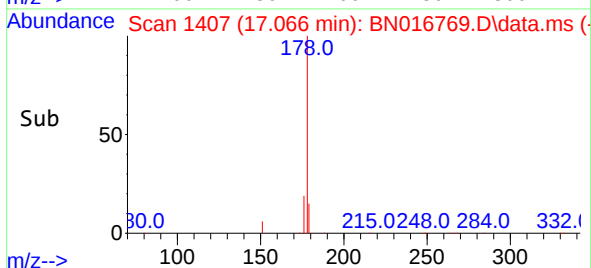
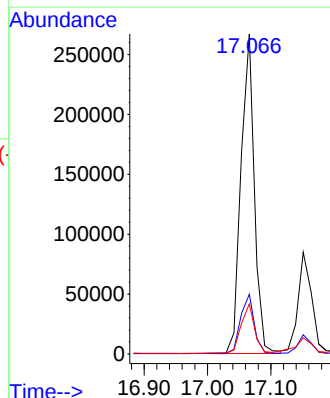
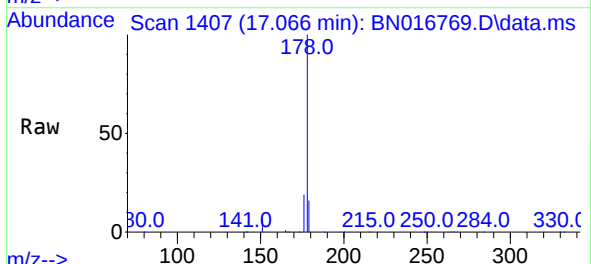
mohammad

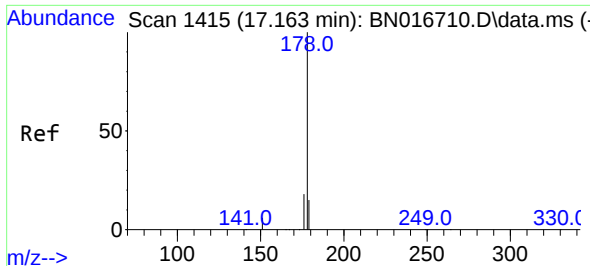
10/7/2021 8:32:05 AM



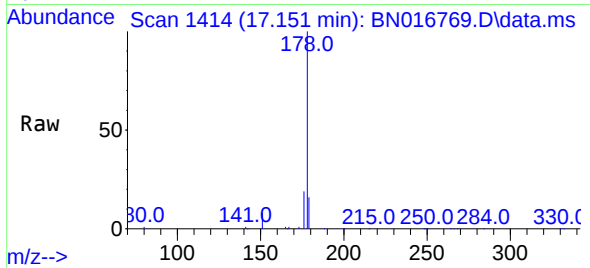
#25
Phenanthrene
Concen: 0.90 ng
RT: 17.066 min Scan# 1407
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:178 Resp: 392792
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.8 12.4 18.6



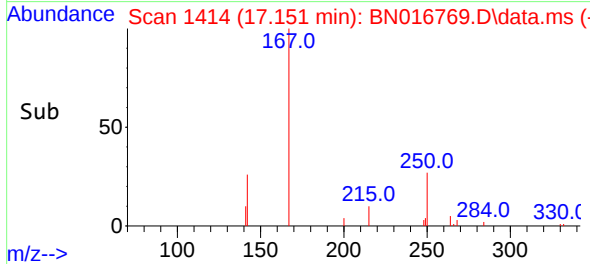
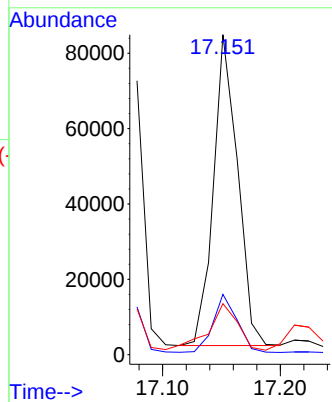


#26
 Anthracene
 Concen: 0.30 ng
 RT: 17.151 min Scan# 1414
 Delta R.T. -0.012 min
 Lab File: BN016769.D
 Acq: 06 Oct 2021 08:06



Tgt Ion:178 Resp: 117894

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.5	21.7
179	18.2	12.2	18.4



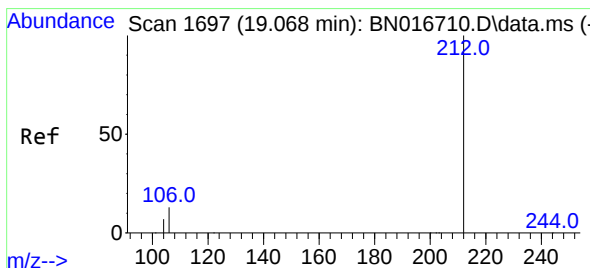
Instrument :
 BNA_N
 ClientSampleId :
 S-832-J-SO-2-2.5-092221-FD

Manual Integrations
 APPROVED

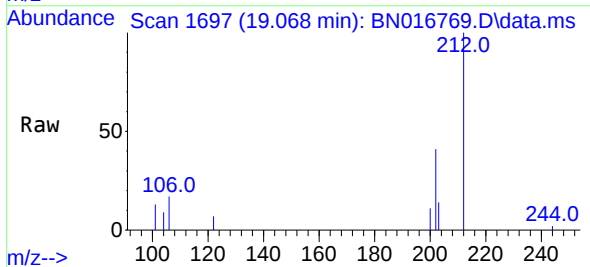
mohammad
 10/7/2021 8:32:05 AM

mohammad

10/7/2021 8:32:05 AM

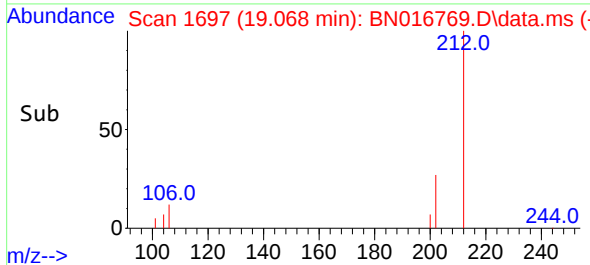
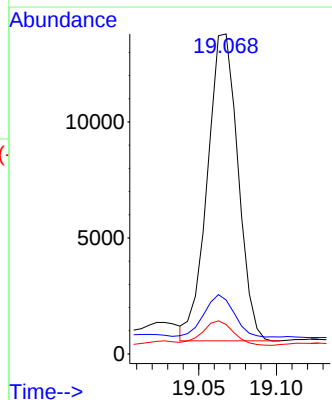


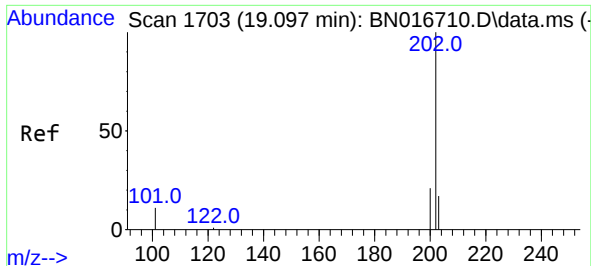
#27
 Fluoranthene-d10
 Concen: 0.04 ng
 RT: 19.068 min Scan# 1697
 Delta R.T. 0.000 min
 Lab File: BN016769.D
 Acq: 06 Oct 2021 08:06



Tgt Ion:212 Resp: 18120

Ion	Ratio	Lower	Upper
212	100		
106	13.5	10.6	16.0
104	8.1	5.8	8.8





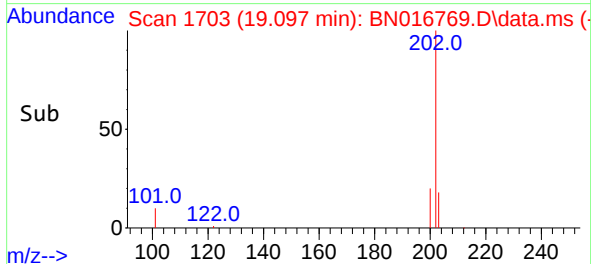
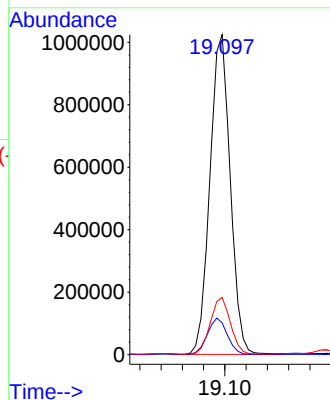
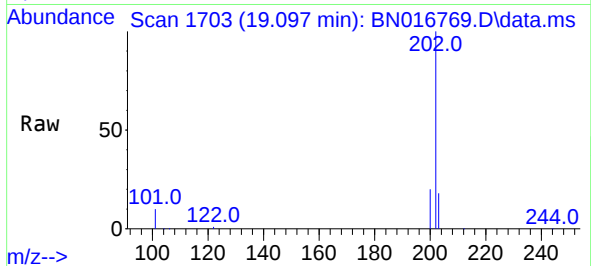
#28
Fluoranthene
Concen: 2.82 ng
RT: 19.097 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:202 Resp: 1358501
Ion Ratio Lower Upper
202 100
101 11.1 8.9 13.3
203 17.6 13.8 20.8

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

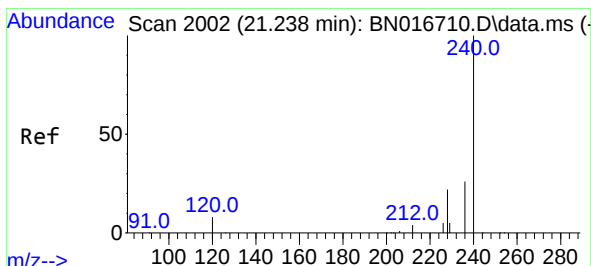
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



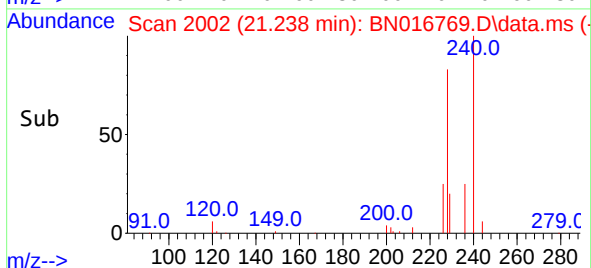
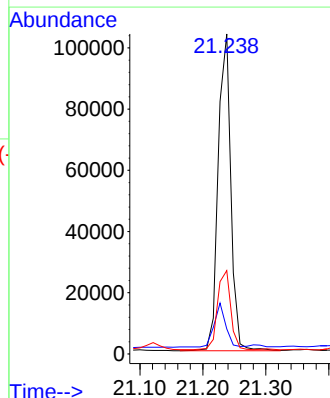
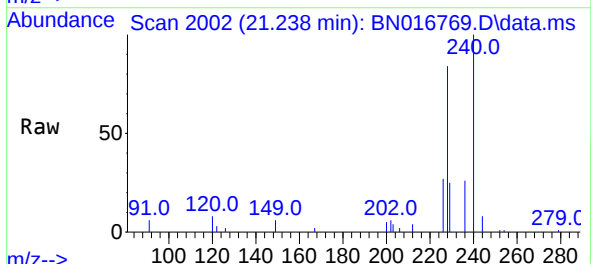
mohammad

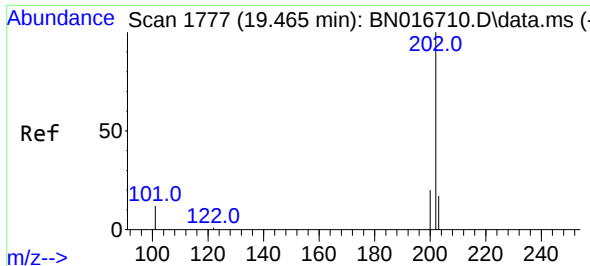
10/7/2021 8:32:05 AM



#29
Chrysene-d12
Concen: 0.40 ng
RT: 21.238 min Scan# 2002
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:240 Resp: 144877
Ion Ratio Lower Upper
240 100
120 7.9 6.6 10.0
236 26.0 20.7 31.1





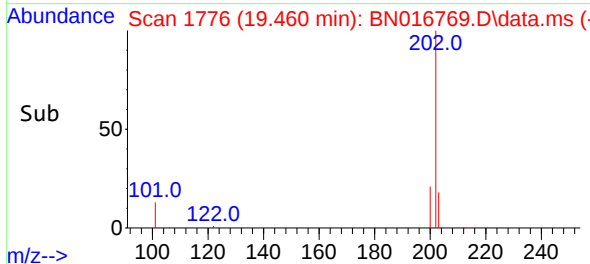
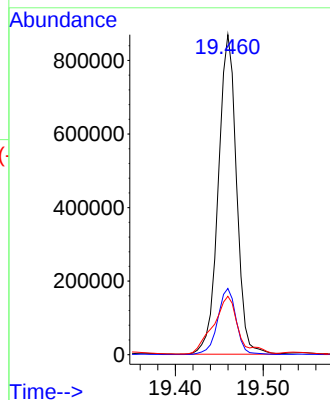
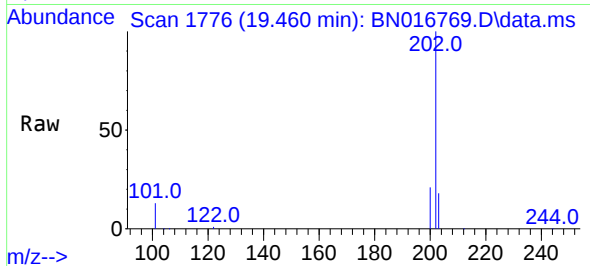
#30
Pyrene
Concen: 2.63 ng
RT: 19.460 min Scan# 1776
Delta R.T. -0.005 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:202 Resp: 1254213
Ion Ratio Lower Upper
202 100
200 20.9 16.5 24.7
203 24.6 13.9 20.9#

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

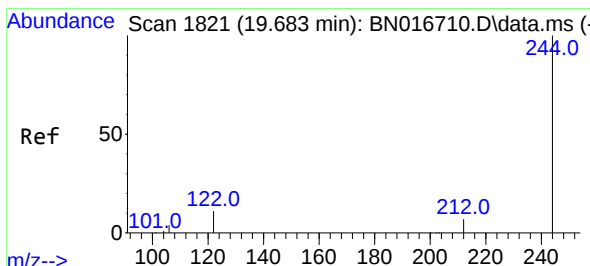
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



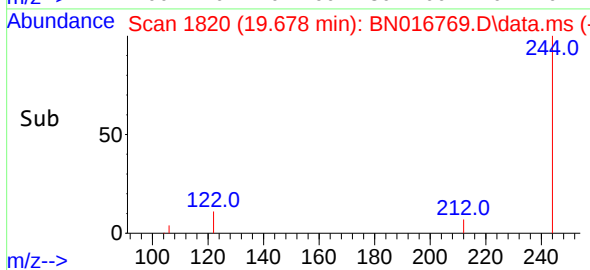
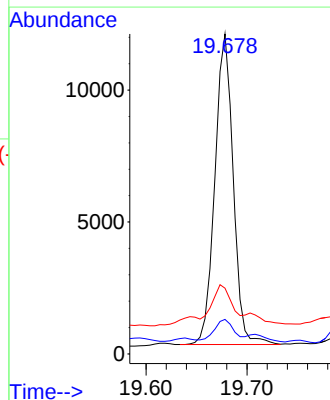
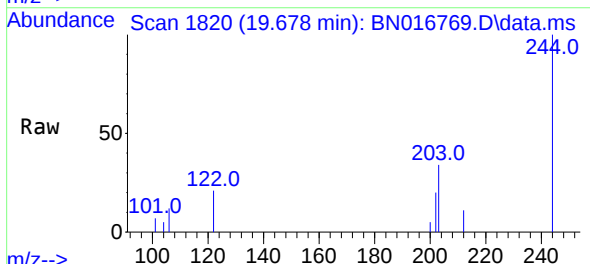
mohammad

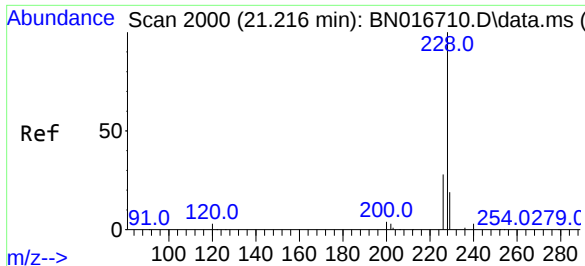
10/7/2021 8:32:05 AM



#31
Terphenyl-d14
Concen: 0.05 ng
RT: 19.678 min Scan# 1820
Delta R.T. -0.005 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:244 Resp: 14885
Ion Ratio Lower Upper
244 100
212 10.8 5.8 8.6#
122 20.5 8.9 13.3#





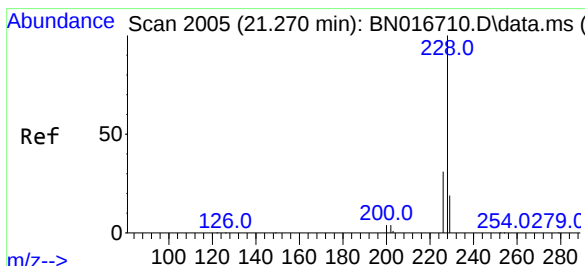
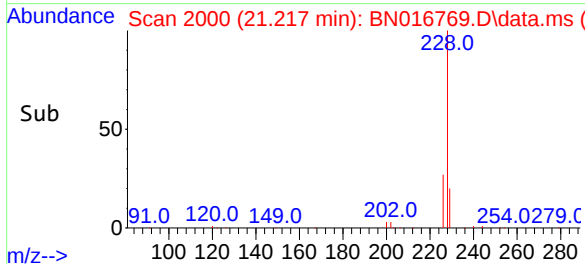
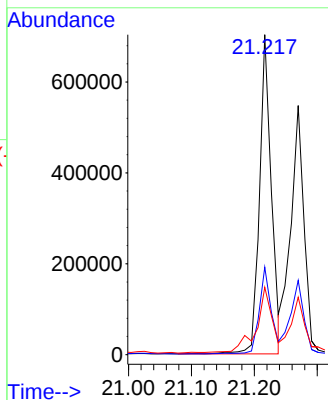
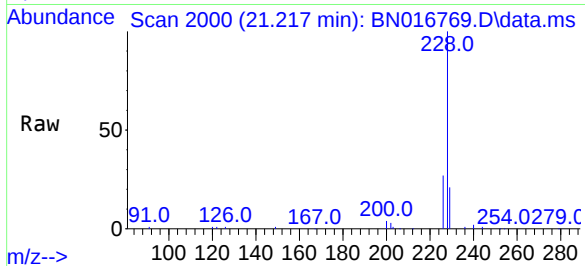
#32
Benzo(a)anthracene
Concen: 2.04 ng
RT: 21.217 min Scan# 2000
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:228 Resp: 915075
Ion Ratio Lower Upper
228 100
226 27.4 22.3 33.5
229 21.1 15.4 23.0

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

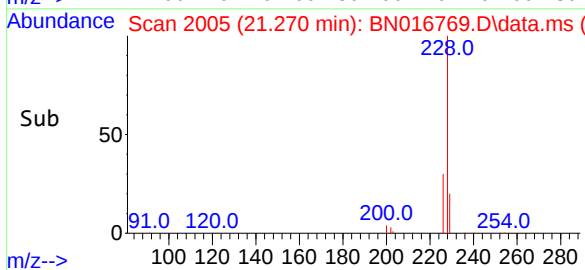
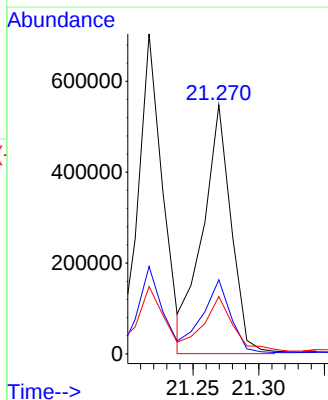
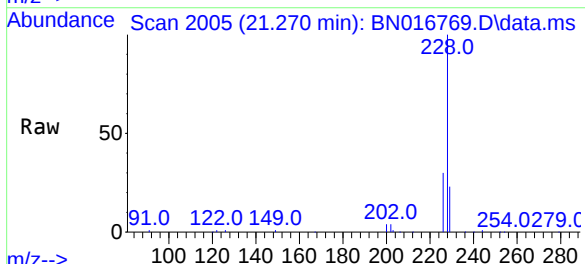
Manual Integrations
APPROVED

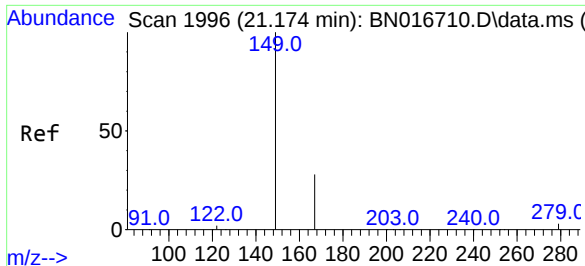
mohammad
10/7/2021 8:32:05 AM



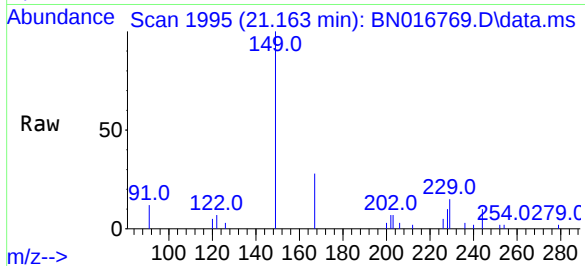
#33
Chrysene
Concen: 1.80 ng m
RT: 21.270 min Scan# 2005
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion:228 Resp: 818532
Ion Ratio Lower Upper
228 100
226 29.8 24.2 36.4
229 23.1 15.4 23.0#

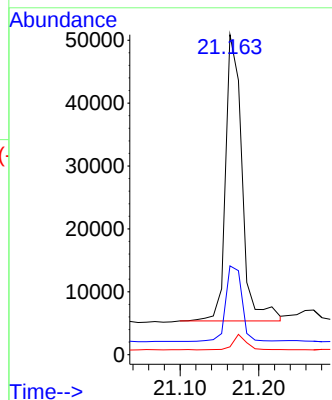
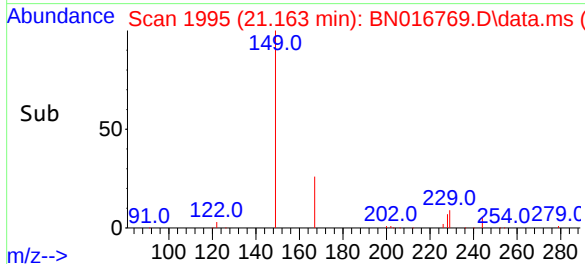




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.24 ng
RT: 21.163 min Scan# 1995
Delta R.T. -0.011 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06



Tgt Ion:149 Resp: 65668
Ion Ratio Lower Upper
149 100
167 25.8 22.2 33.4
279 4.5 3.4 5.2



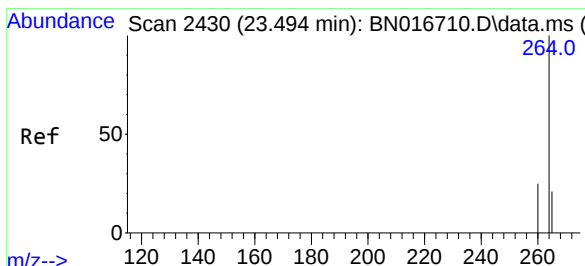
Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

Manual Integrations
APPROVED

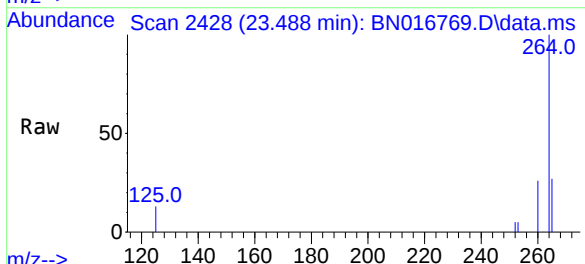
mohammad
10/7/2021 8:32:05 AM

mohammad

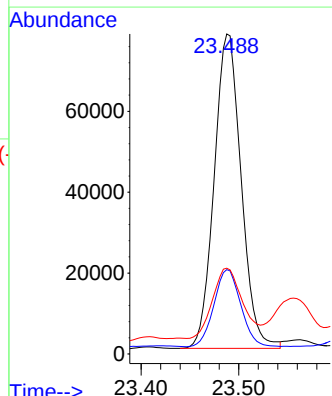
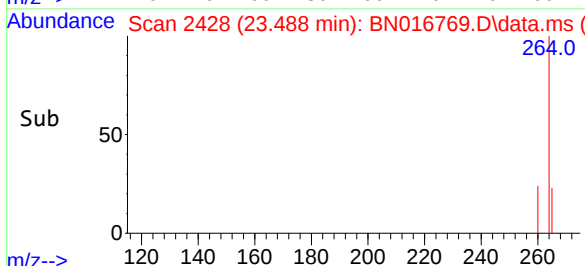
10/7/2021 8:32:05 AM

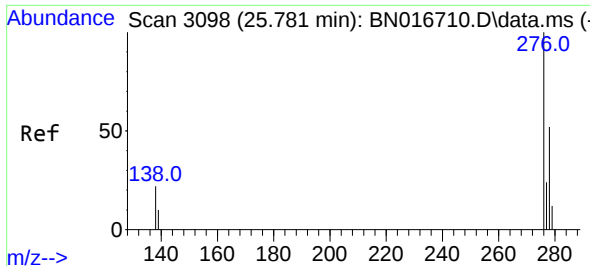


#35
Perylene-d12
Concen: 0.40 ng
RT: 23.488 min Scan# 2428
Delta R.T. -0.007 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06



Tgt Ion:264 Resp: 149288
Ion Ratio Lower Upper
264 100
260 26.4 19.8 29.6
265 26.8 20.3 30.5





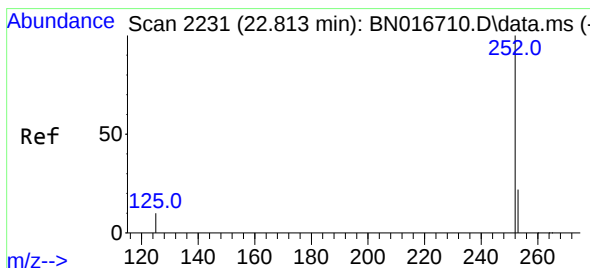
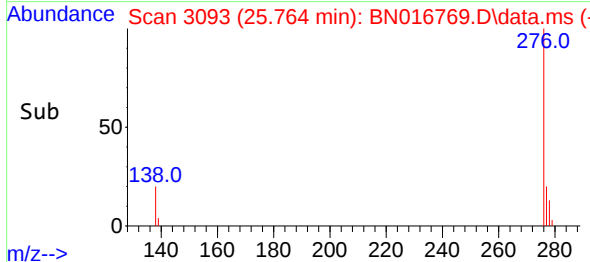
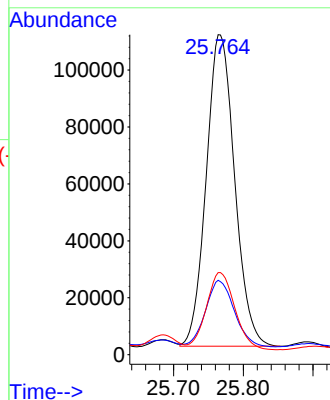
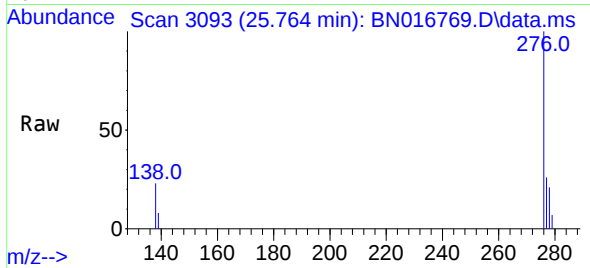
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.65 ng
RT: 25.764 min Scan# 3093
Delta R.T. -0.017 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion: 276 Resp: 309807
Ion Ratio Lower Upper
276 100
138 21.6 19.2 28.8
277 25.0 20.0 30.0

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

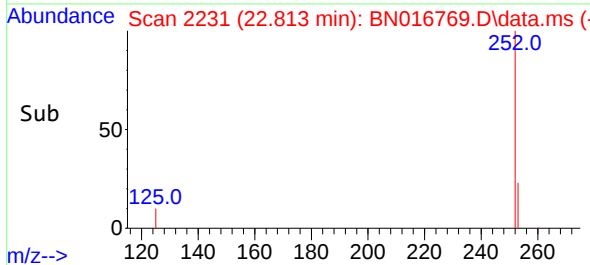
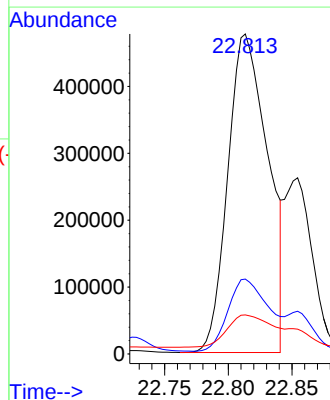
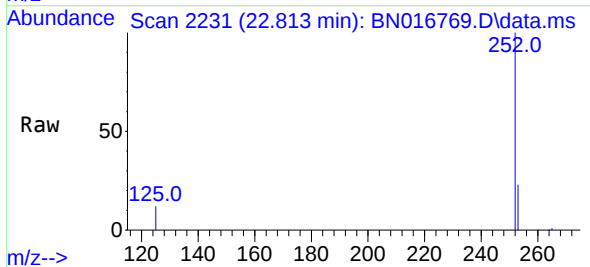
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



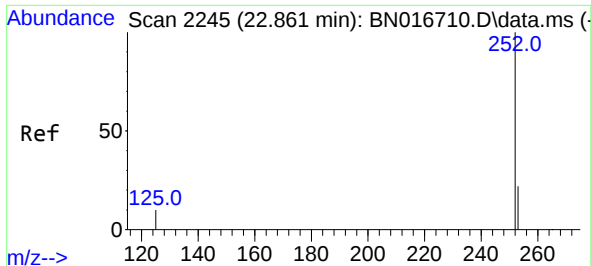
#37
Benzo(b)fluoranthene
Concen: 2.16 ng
RT: 22.813 min Scan# 2231
Delta R.T. 0.000 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion: 252 Resp: 1041674
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.8
125 12.2 8.3 12.5

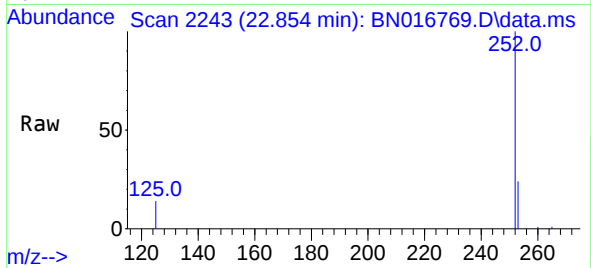


mohammad

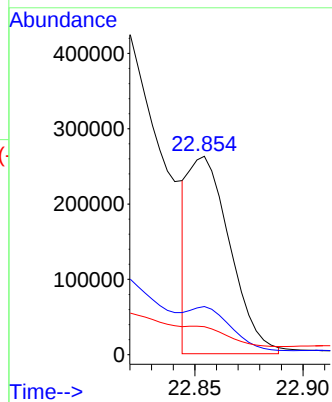
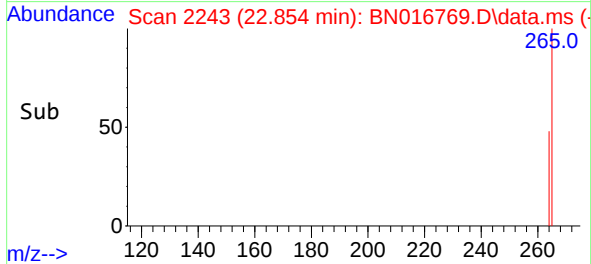
10/7/2021 8:32:05 AM



#38
Benzo(k)fluoranthene
Concen: 0.75 ng m
RT: 22.854 min Scan# 2243
Delta R.T. -0.007 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06



Tgt Ion:252 Resp: 349215
Ion Ratio Lower Upper
252 100
253 24.3 17.8 26.8
125 14.1 8.5 12.7#



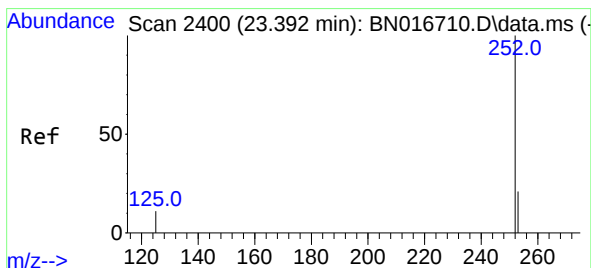
Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

Manual Integrations
APPROVED

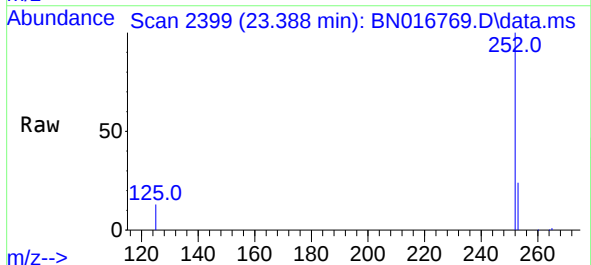
mohammad
10/7/2021 8:32:05 AM

mohammad

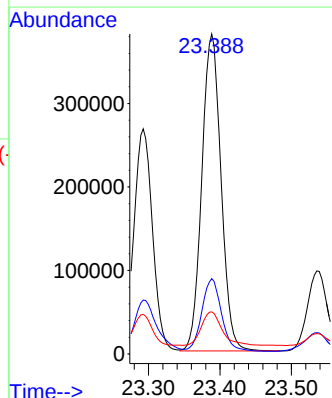
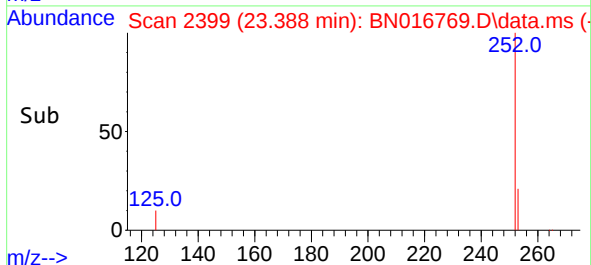
10/7/2021 8:32:05 AM

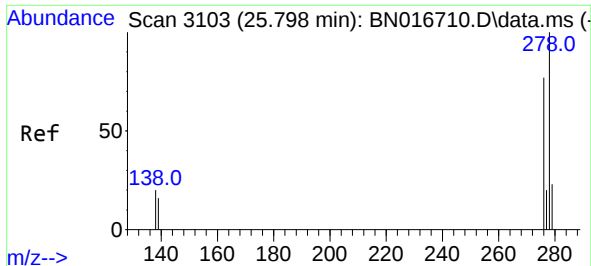


#39
Benzo(a)pyrene
Concen: 1.64 ng
RT: 23.388 min Scan# 2399
Delta R.T. -0.003 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06



Tgt Ion:252 Resp: 709344
Ion Ratio Lower Upper
252 100
253 23.6 17.9 26.9
125 13.2 9.4 14.2





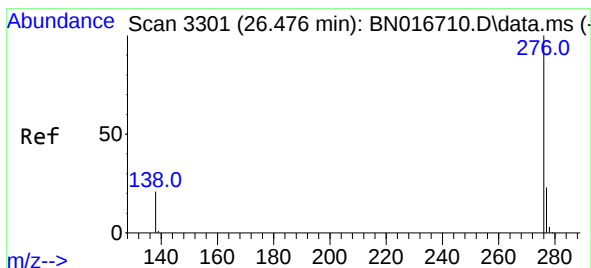
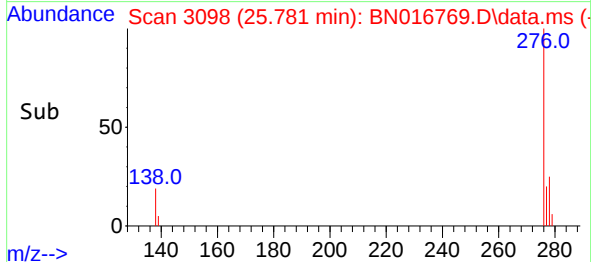
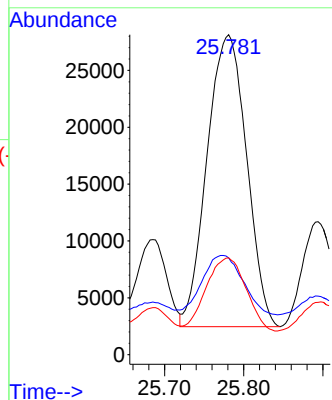
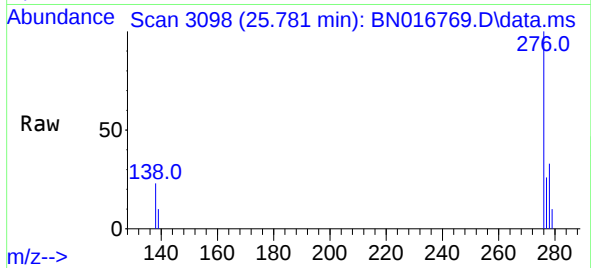
#40
Dibenzo(a,h)anthracene
Concen: 0.24 ng
RT: 25.781 min Scan# 3098
Delta R.T. -0.017 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion: 278 Resp: 89193
Ion Ratio Lower Upper
278 100
139 30.2 13.1 19.7#
279 30.3 19.3 28.9#

Instrument :
BNA_N
ClientSampleId :
S-832-J-SO-2-2.5-092221-FD

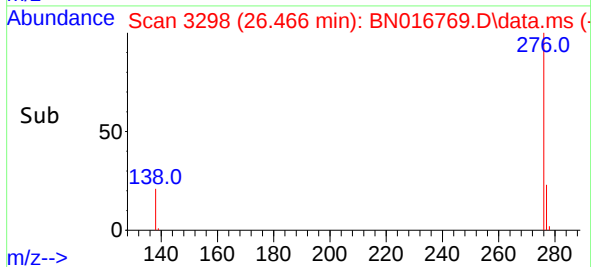
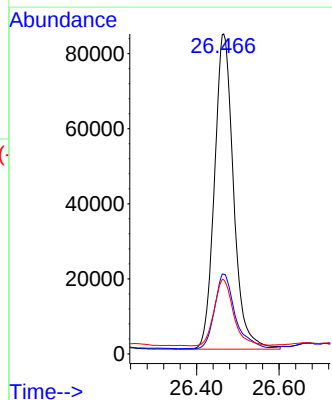
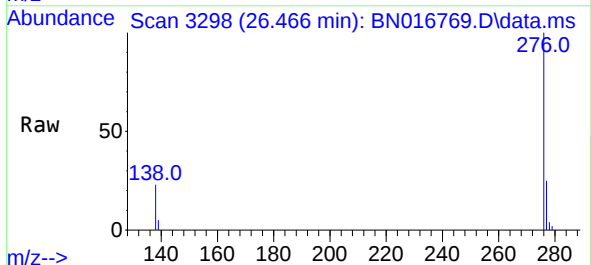
Manual Integrations
APPROVED

mohammad
10/7/2021 8:32:05 AM



#41
Benzo(g,h,i)perylene
Concen: 0.64 ng
RT: 26.466 min Scan# 3298
Delta R.T. -0.010 min
Lab File: BN016769.D
Acq: 06 Oct 2021 08:06

Tgt Ion: 276 Resp: 269611
Ion Ratio Lower Upper
276 100
277 24.9 19.0 28.4
138 23.2 17.0 25.6



mohammad

10/7/2021 8:32:05 AM