

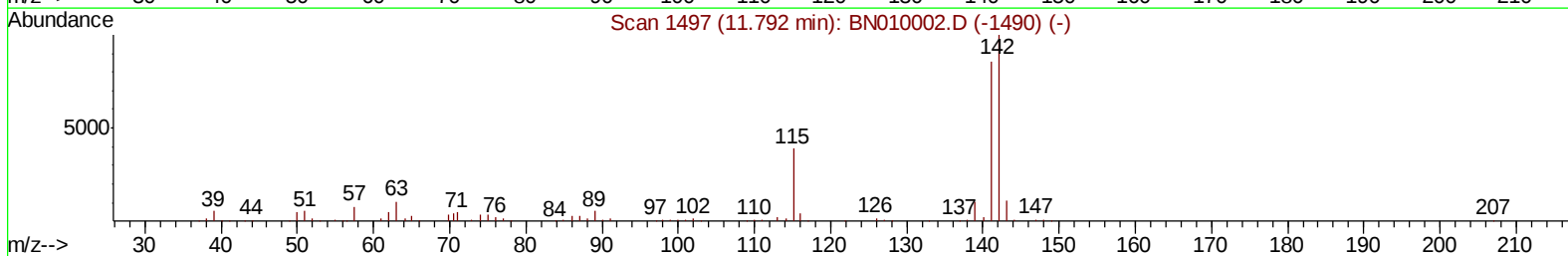
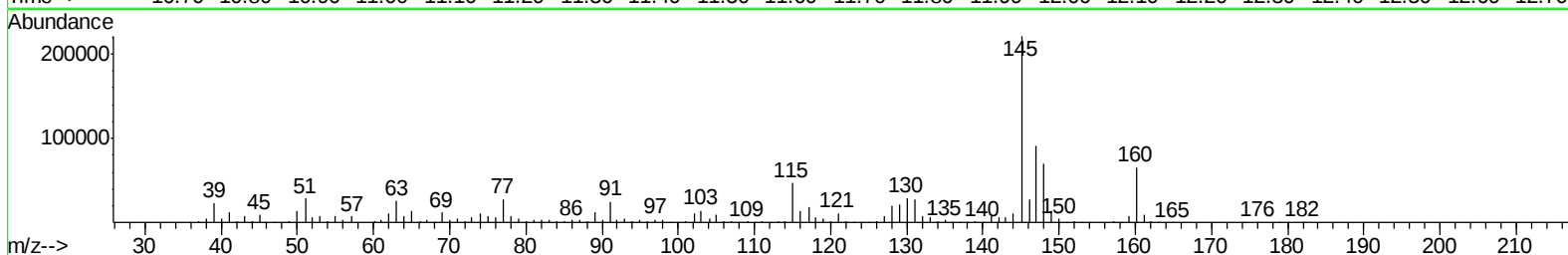
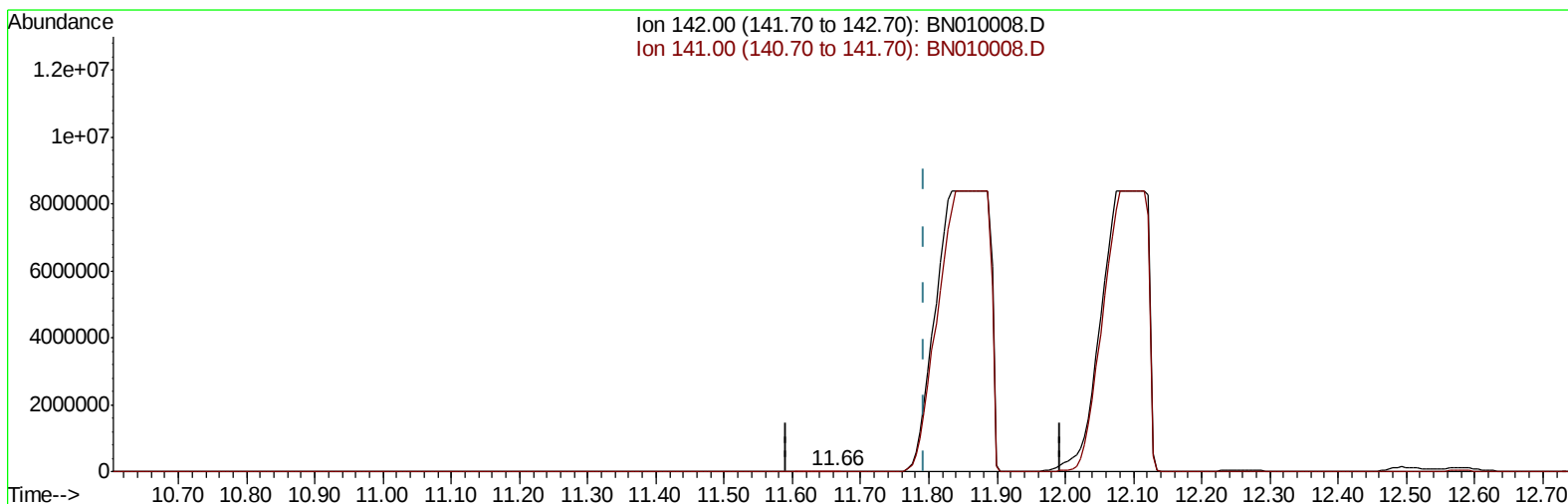
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 05:52:32 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(34) 2-Methylnaphthalene

11.663min (-0.129) 0.57ng/ul

response 9675

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 142.00 | 100   | 100     |
| 141.00 | 90.10 | 117.34# |
| 0.00   | 0.00  | 0.00    |
| 0.00   | 0.00  | 0.00    |

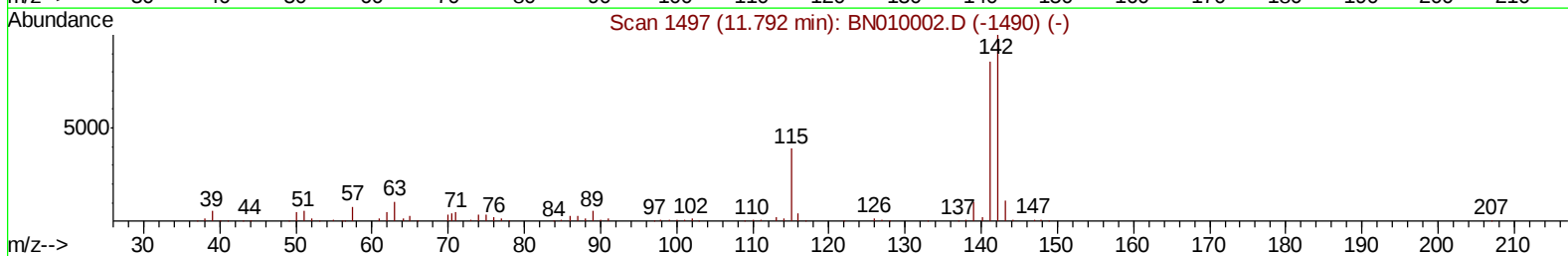
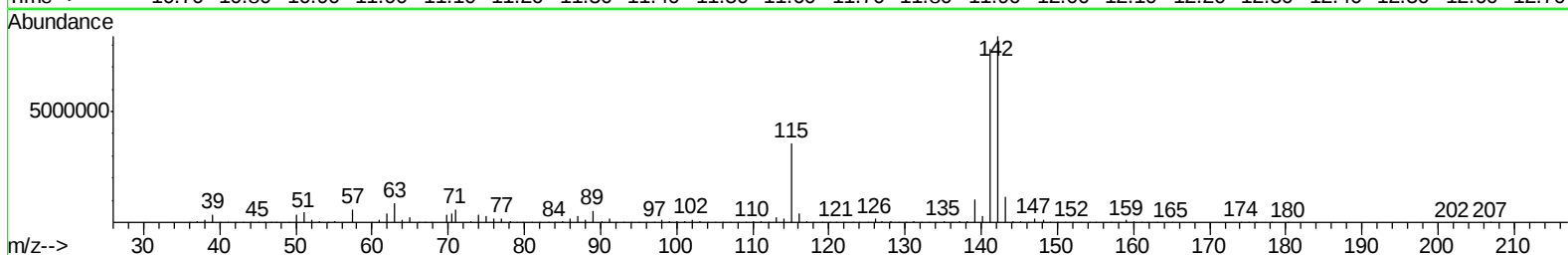
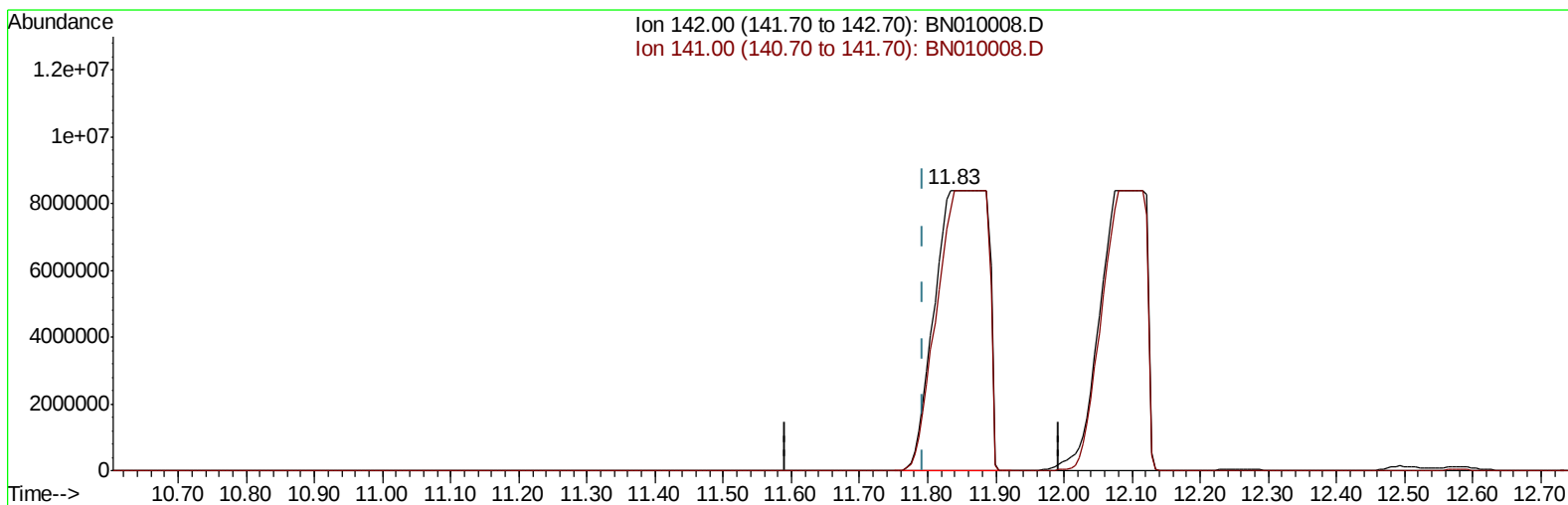
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 05:52:32 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(34) 2-Methylnaphthalene

11.834min (+0.041) 2638.21ng/ul m

response 45154166

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 142.00 | 100   | 100   |
| 141.00 | 90.10 | 93.29 |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

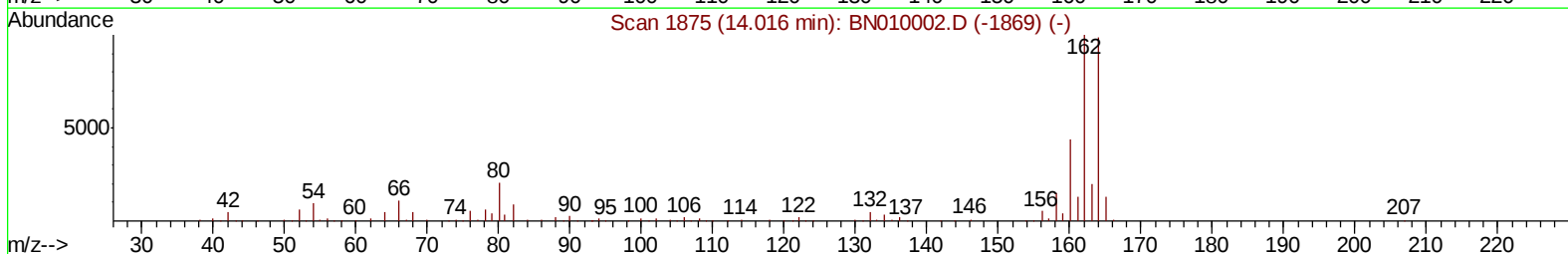
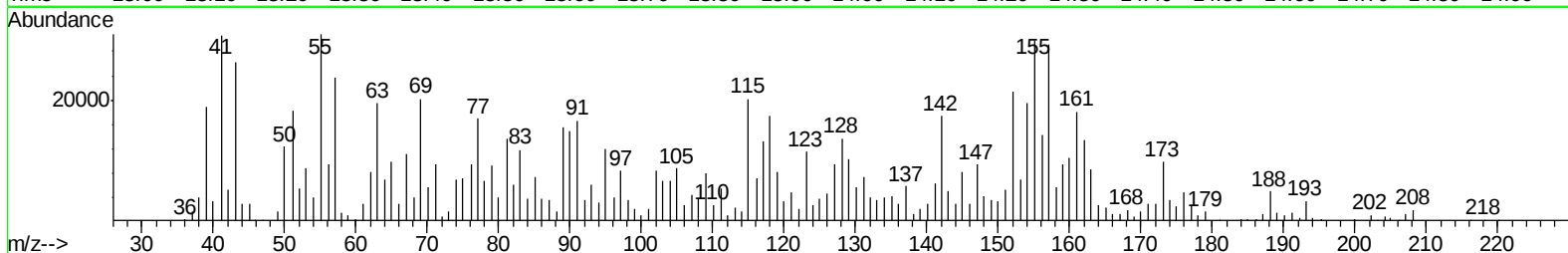
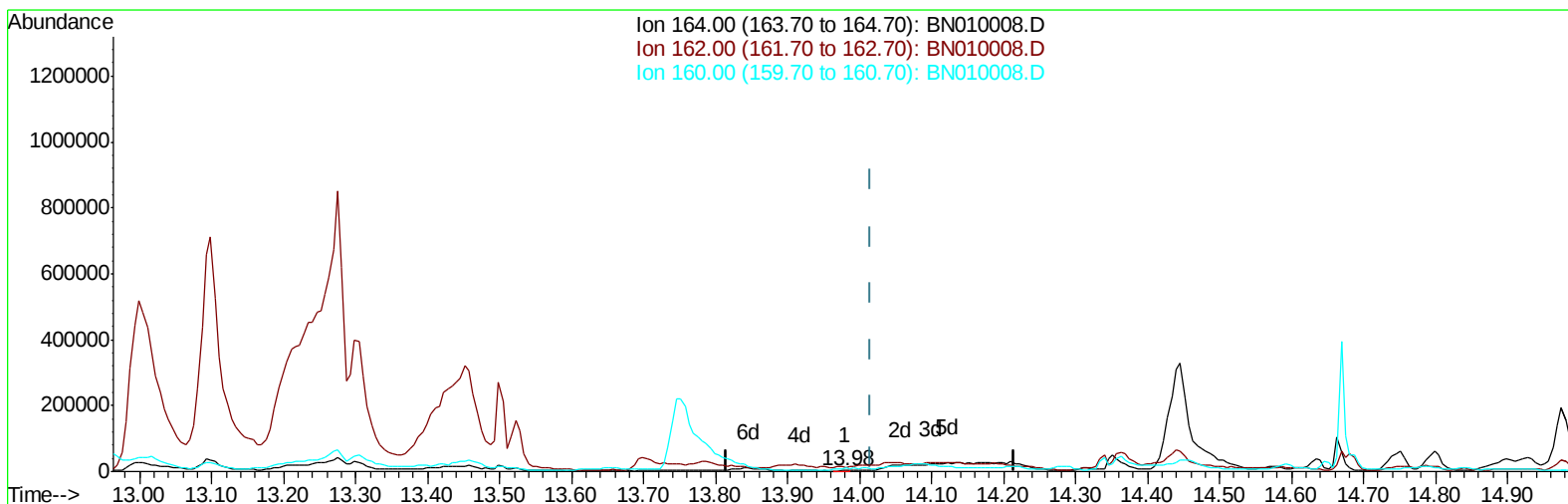
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:03:25 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(36) Acenaphthene-d10 (I)

13.981min (-0.035) 20.00ng/ul

response 726

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 164.00 | 100   | 100     |
| 162.00 | 98.80 | 494.76# |
| 160.00 | 42.90 | 382.89# |
| 0.00   | 0.00  | 0.00    |

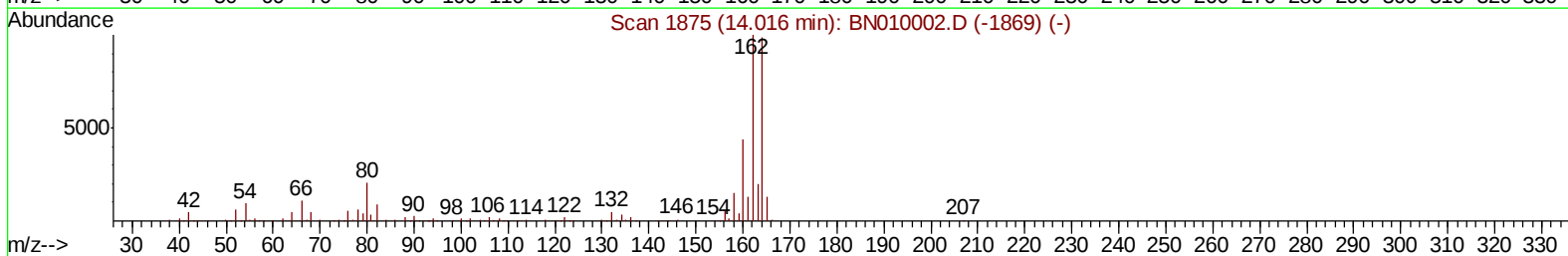
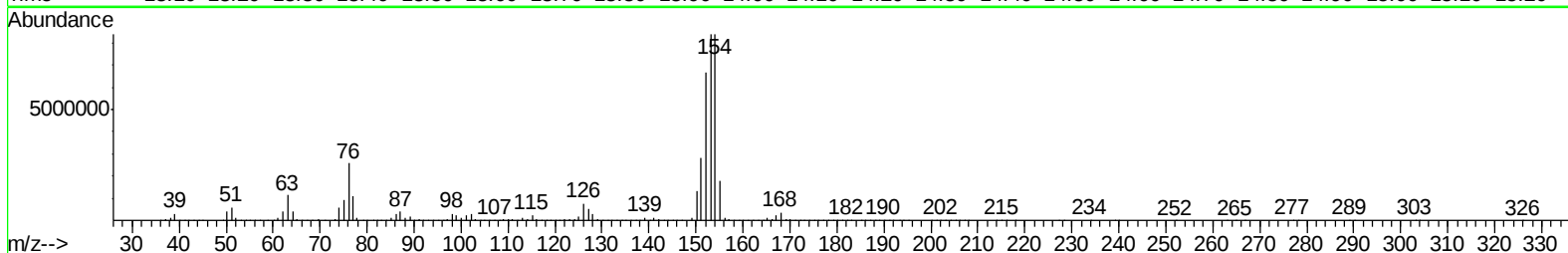
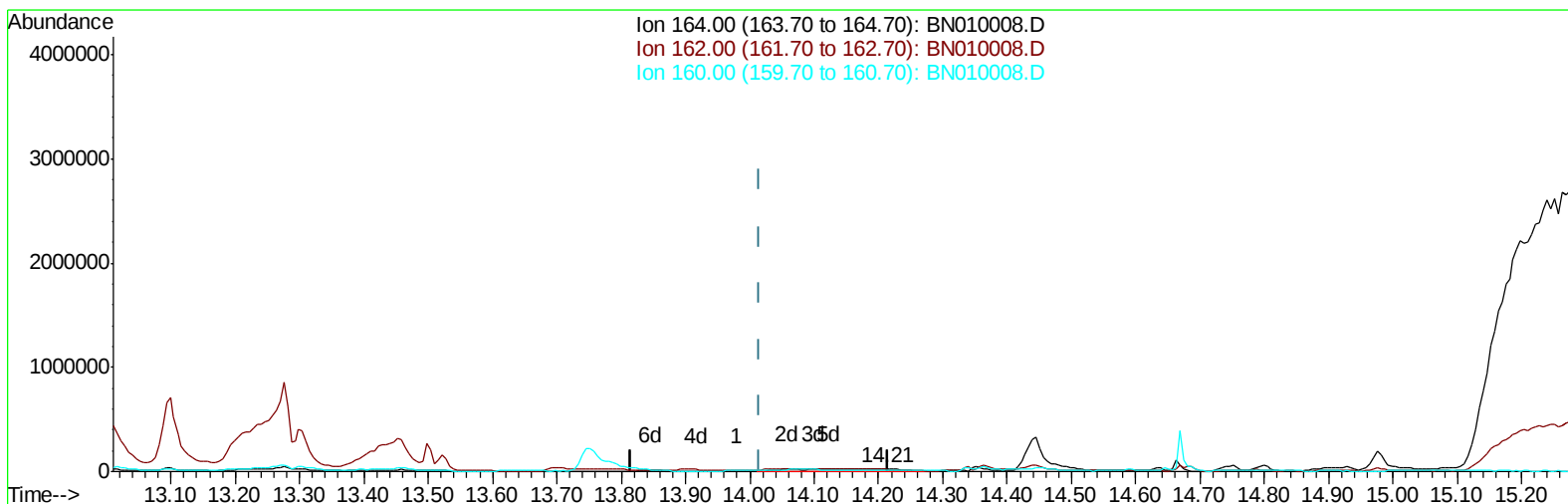
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:03:25 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(36) Acenaphthene-d10 (I)

14.210min (+0.194) 20.00ng/ul m

response 302075

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 164.00 | 100   | 100    |
| 162.00 | 98.80 | 65.32# |
| 160.00 | 42.90 | 53.76# |
| 0.00   | 0.00  | 0.00   |

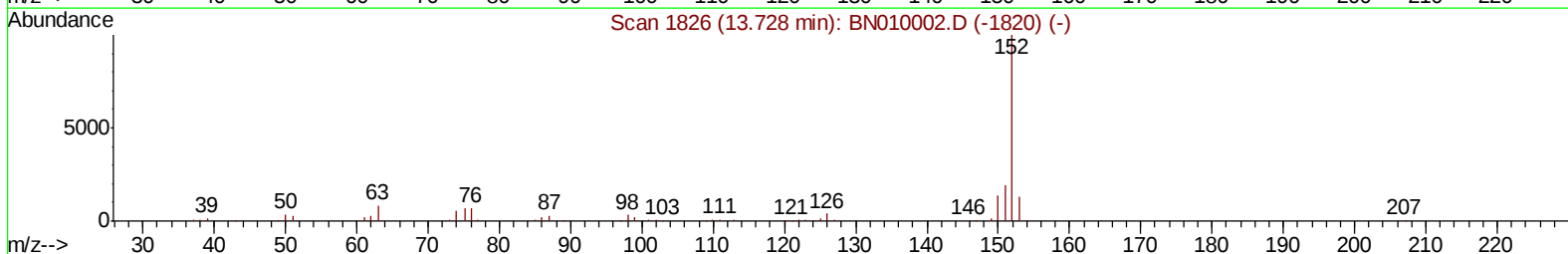
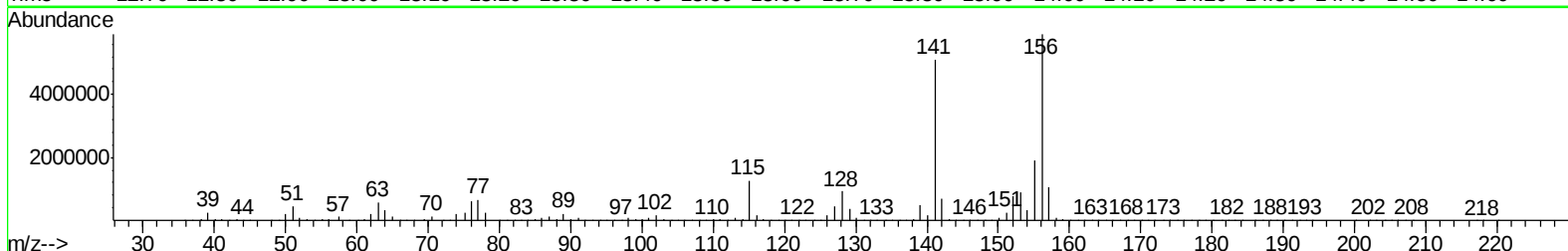
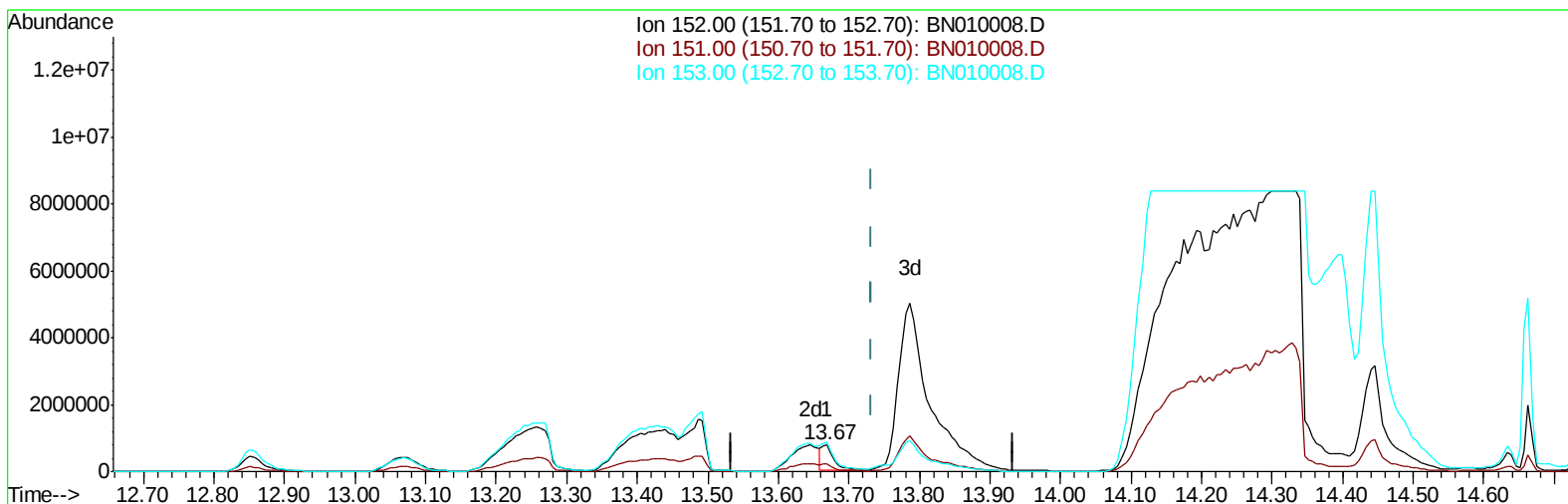
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:04:41 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(48) Acenaphthylene

13.669min (-0.065) 30.69ng/ul

response 882580

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 152.00 | 100   | 100     |
| 151.00 | 19.60 | 31.04#  |
| 153.00 | 12.90 | 111.54# |
| 0.00   | 0.00  | 0.00    |

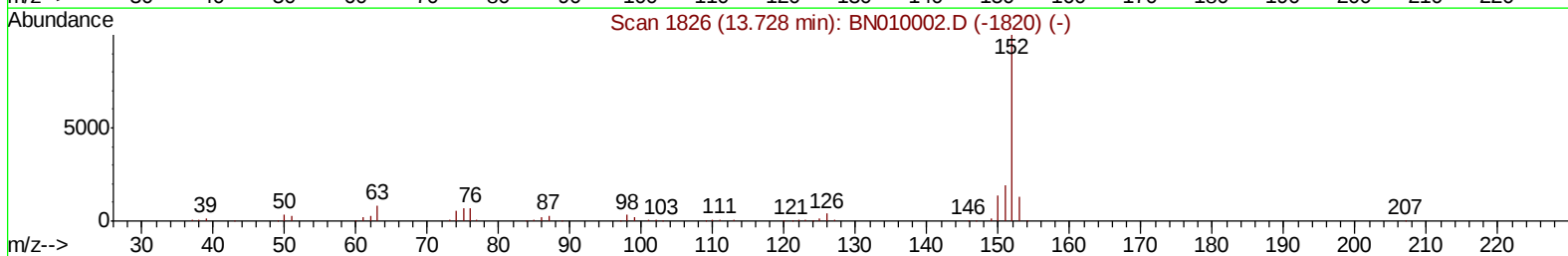
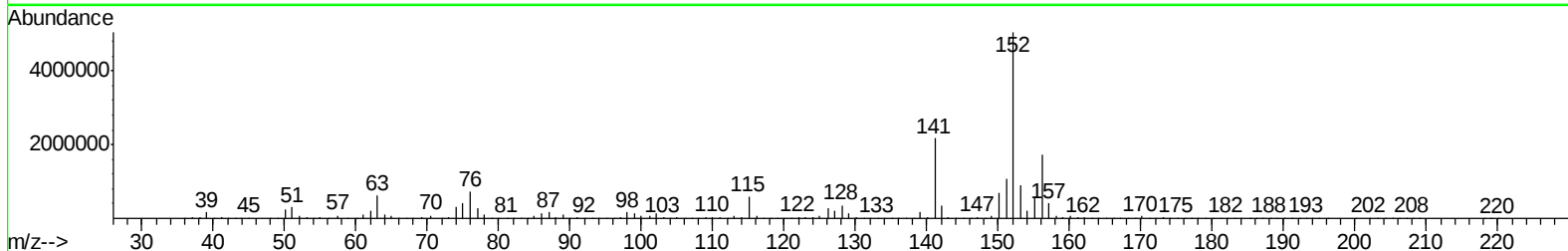
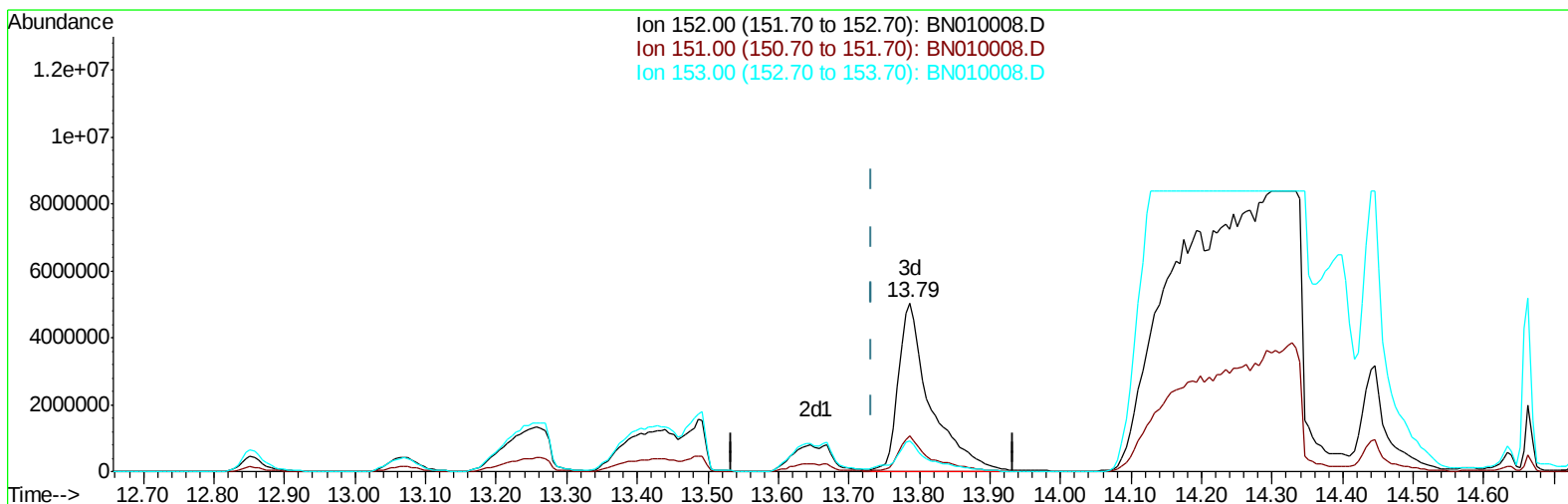
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:04:41 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(48) Acenaphthylene

13.787min (+0.053) 554.73ng/ul m

response 15955312

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 152.00 | 100   | 100    |
| 151.00 | 19.60 | 21.25  |
| 153.00 | 12.90 | 17.96# |
| 0.00   | 0.00  | 0.00   |

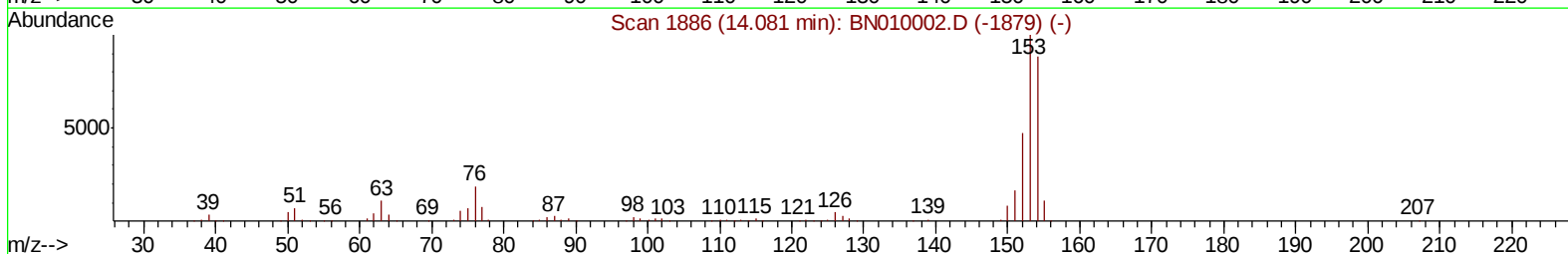
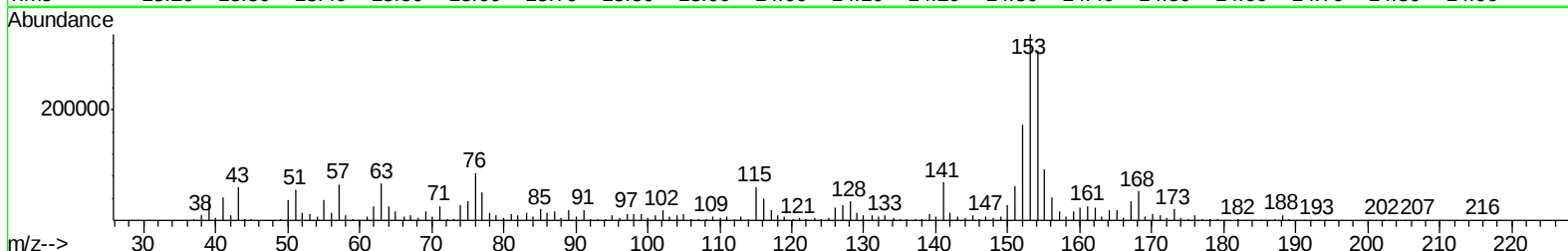
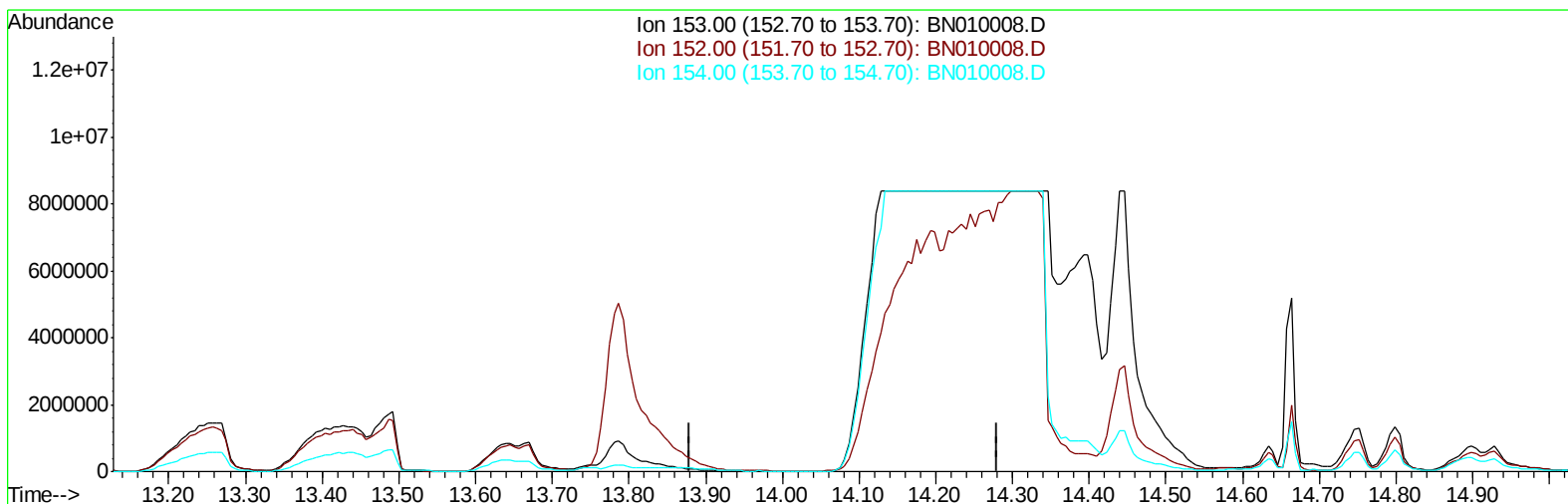
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acd On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:04:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(50) Acenaphthene (C)

14.081min (-14.081) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 153.00 | 100   | 0.00  |
| 152.00 | 45.70 | 0.00# |
| 154.00 | 88.30 | 0.00# |
| 0.00   | 0.00  | 0.00  |

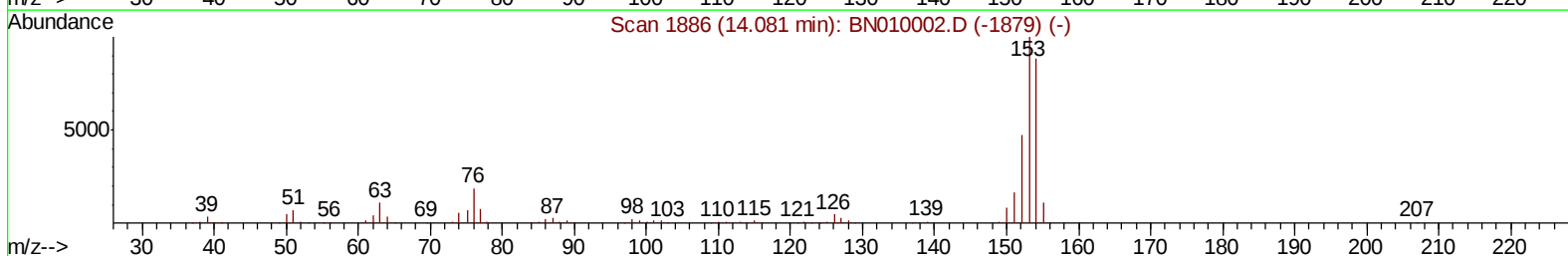
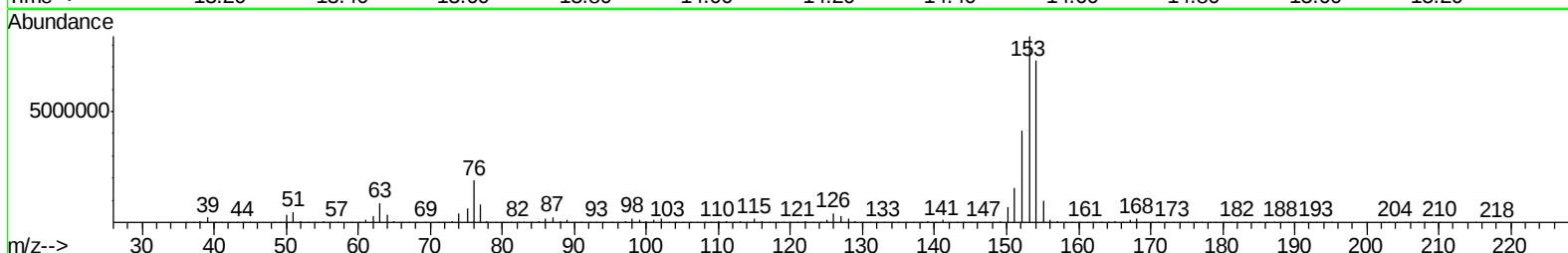
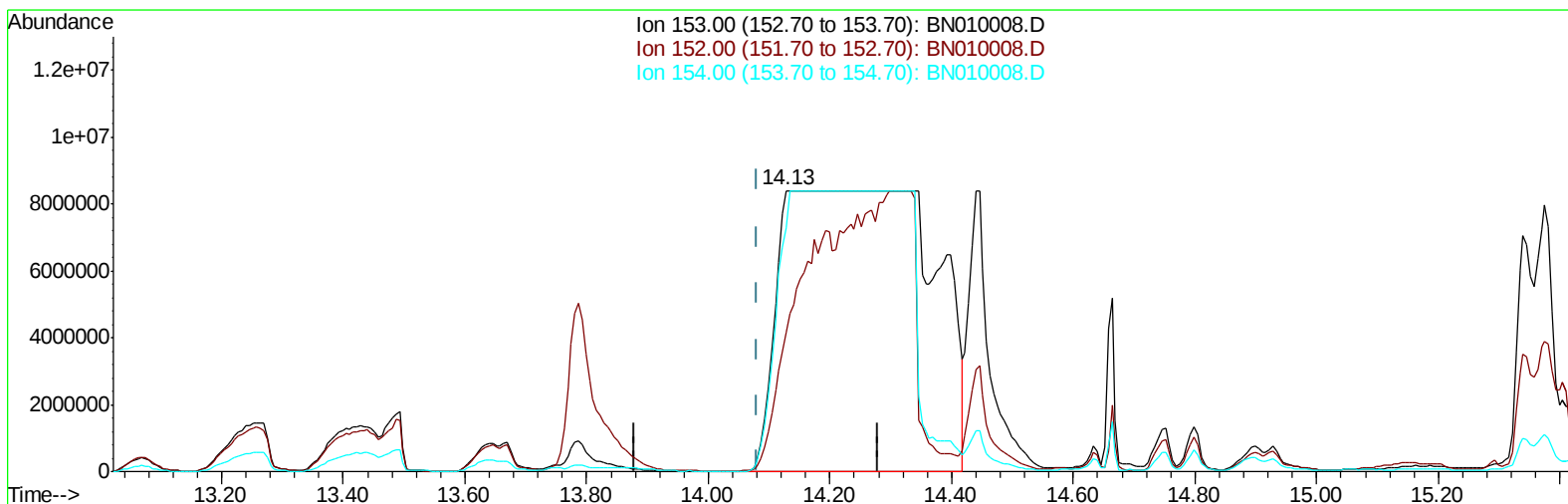
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:04:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(50) Acenaphthene (C)

14.128min (+0.047) 7422.08ng/ul m

response 146343713

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 153.00 | 100   | 100   |
| 152.00 | 45.70 | 49.40 |
| 154.00 | 88.30 | 86.73 |
| 0.00   | 0.00  | 0.00  |

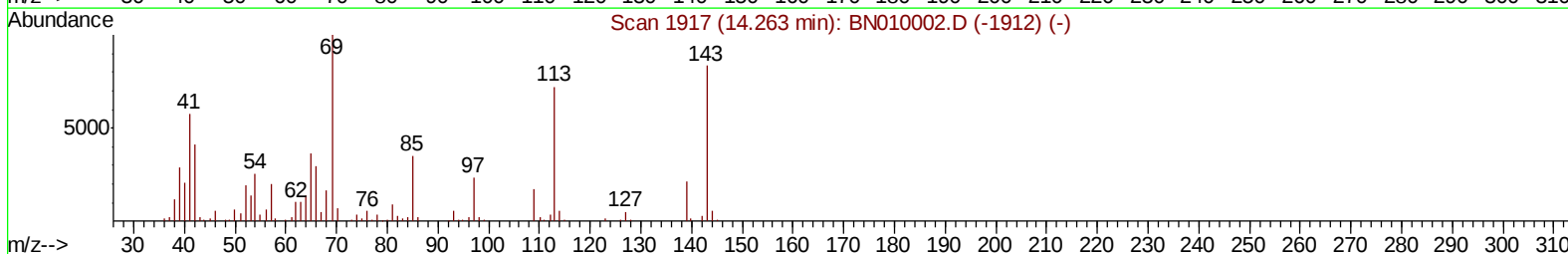
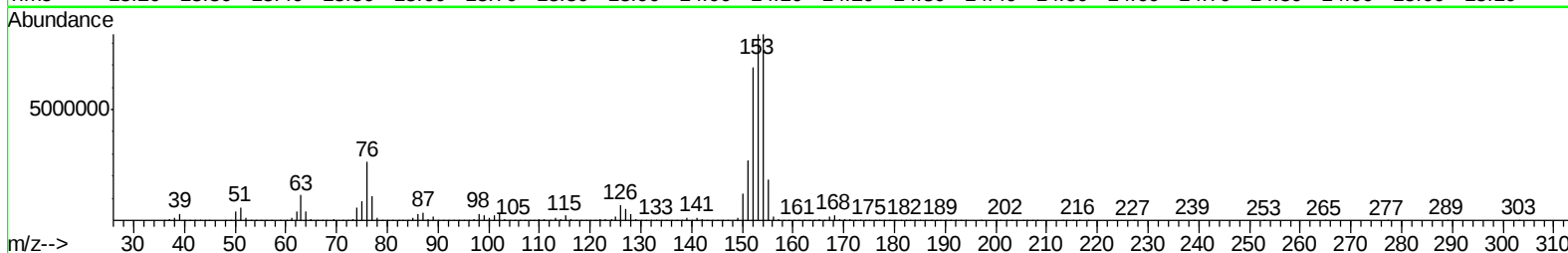
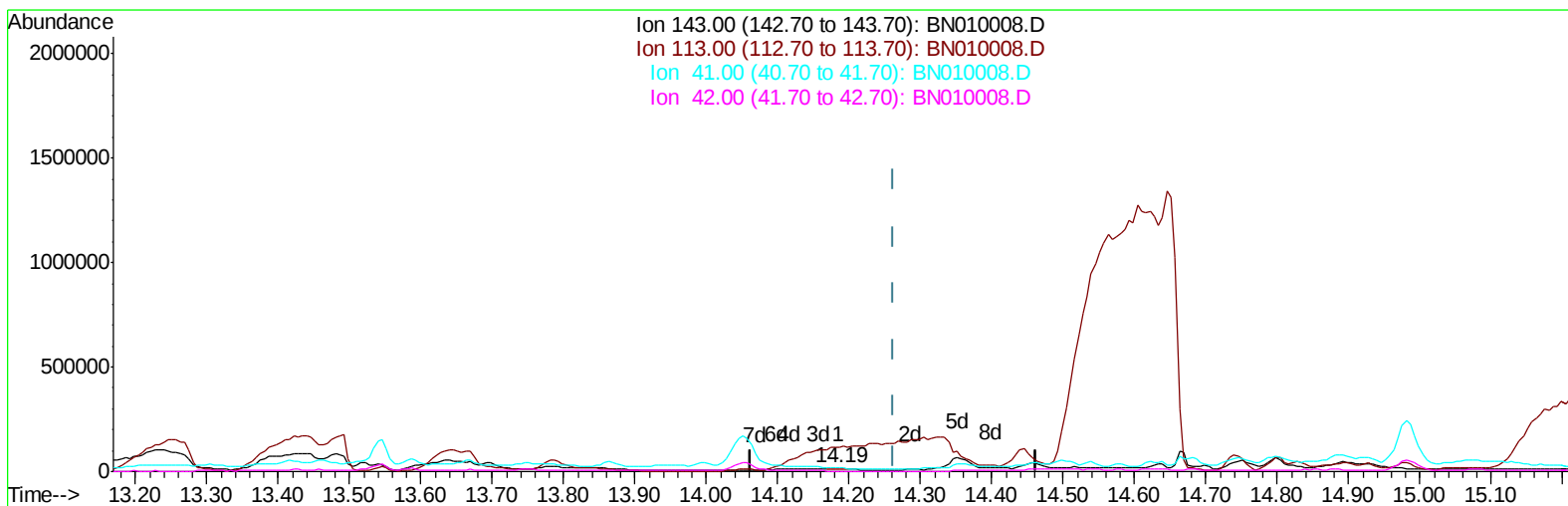
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:04:41 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(52) 4-Nitrophenol-d4 (S)  
14.187min (-0.076) 0.86ng/ul

response 3541

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 143.00 | 100   | 100     |
| 113.00 | 86.40 | 790.85# |
| 41.00  | 66.00 | 121.70# |
| 42.00  | 43.20 | 16.71#  |

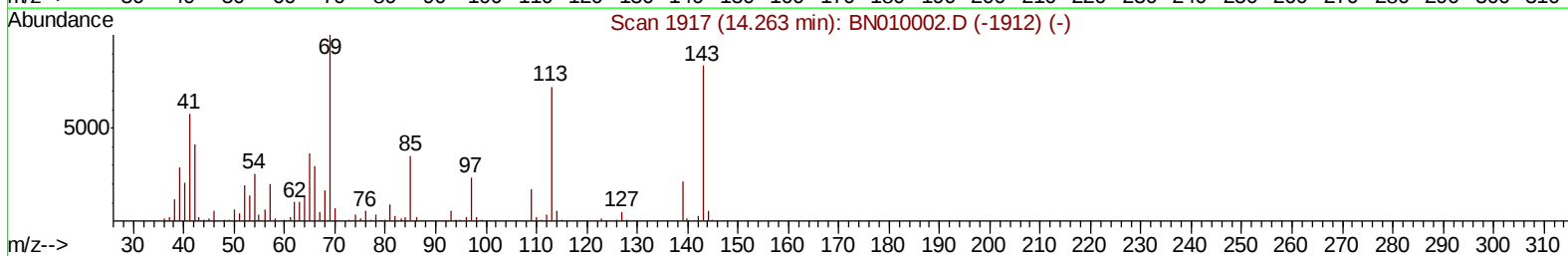
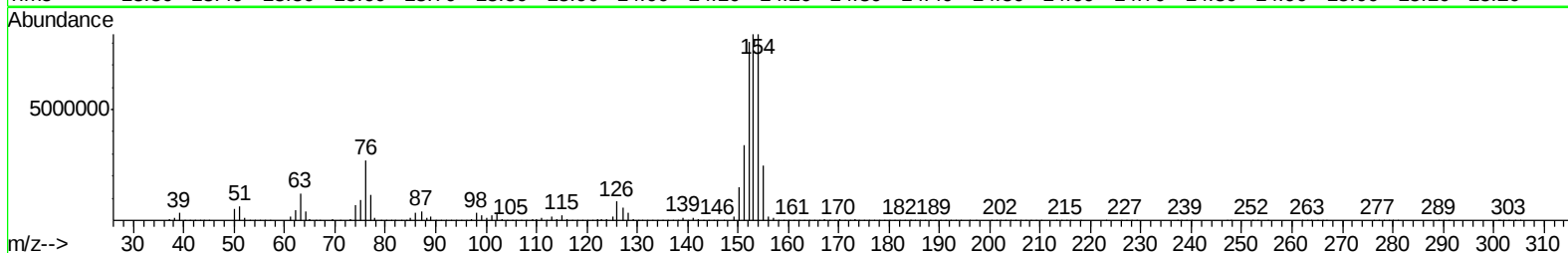
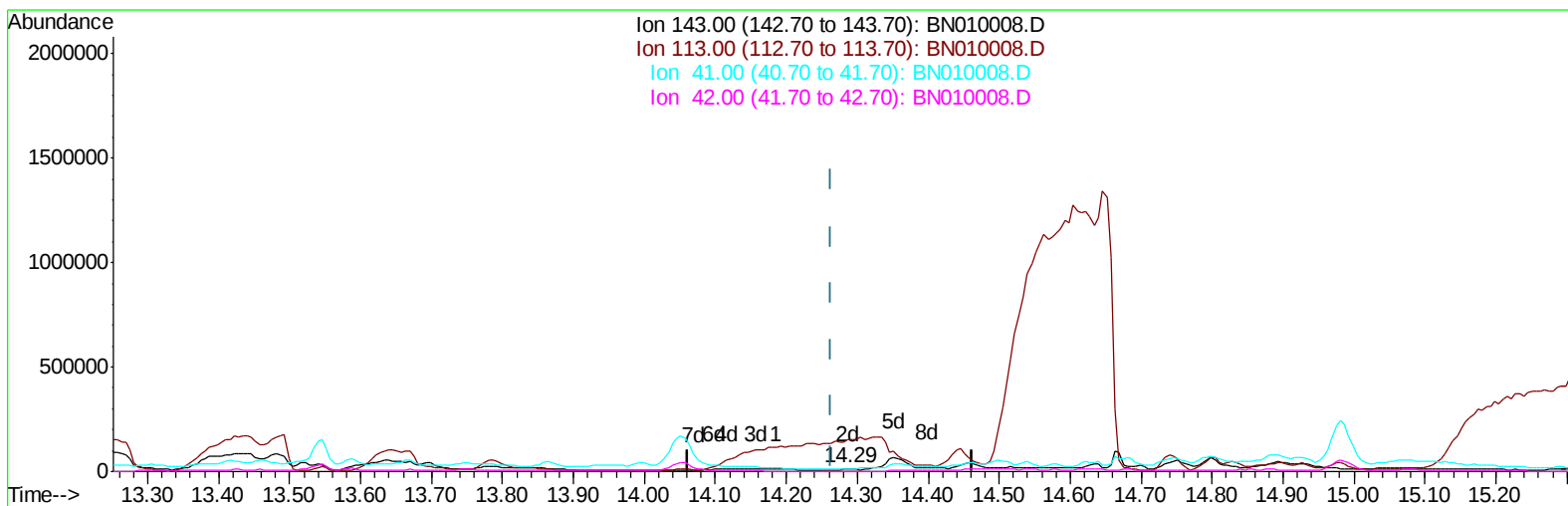
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:04:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(52) 4-Nitrophenol-d4 (S)

14.287min (+0.024) 7.06ng/ul m

response 29095

| Ion    | Exp%  | Act%     |
|--------|-------|----------|
| 143.00 | 100   | 100      |
| 113.00 | 86.40 | 1186.68# |
| 41.00  | 66.00 | 106.57#  |
| 42.00  | 43.20 | 17.22#   |

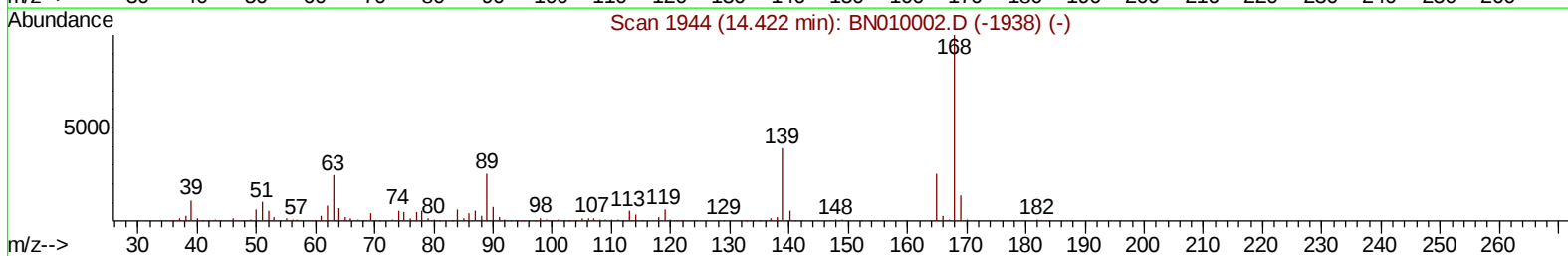
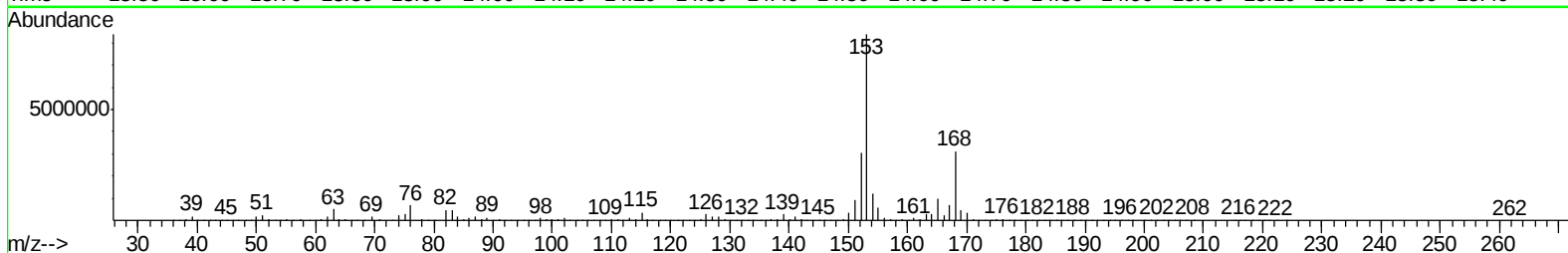
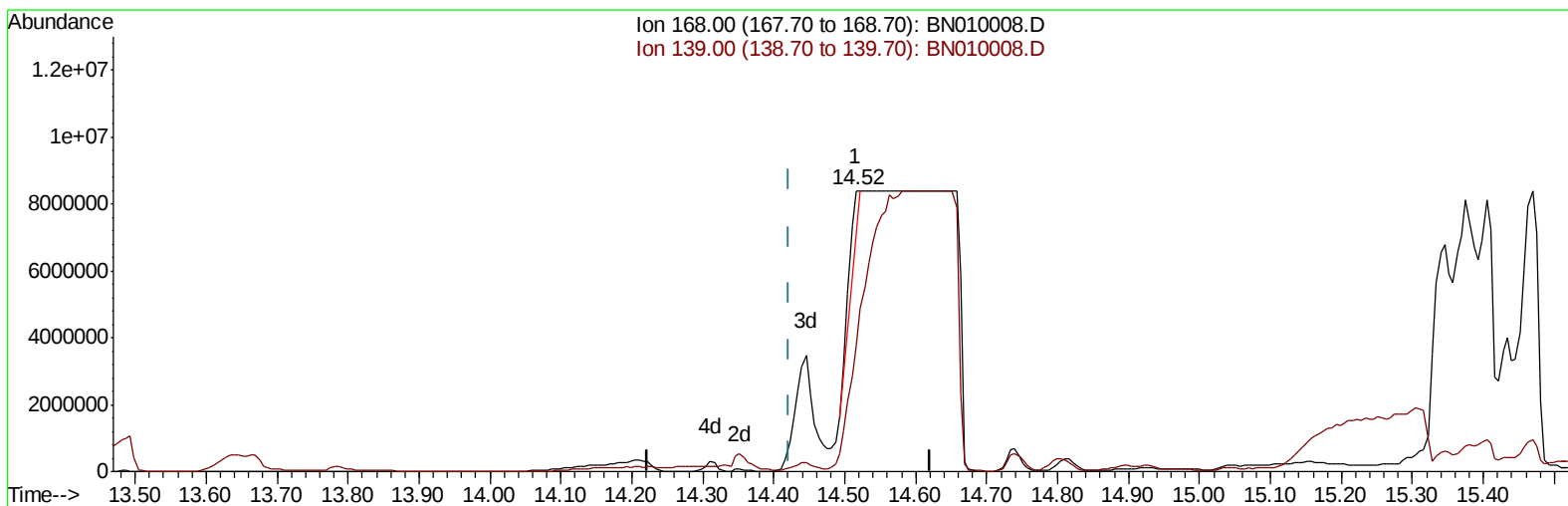
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:10:33 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(54) Dibenzofuran

14.516min (+0.094) 109.04ng/ul

response 3017710

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 168.00 | 100   | 100   |
| 139.00 | 40.90 | 45.05 |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

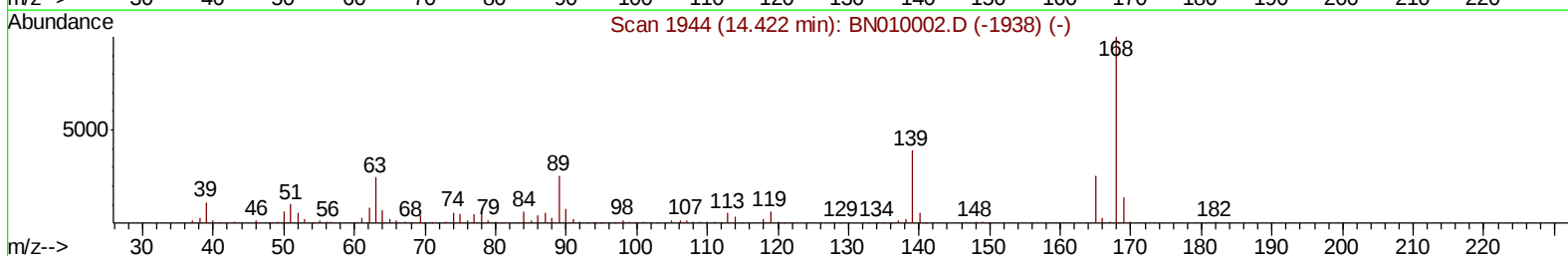
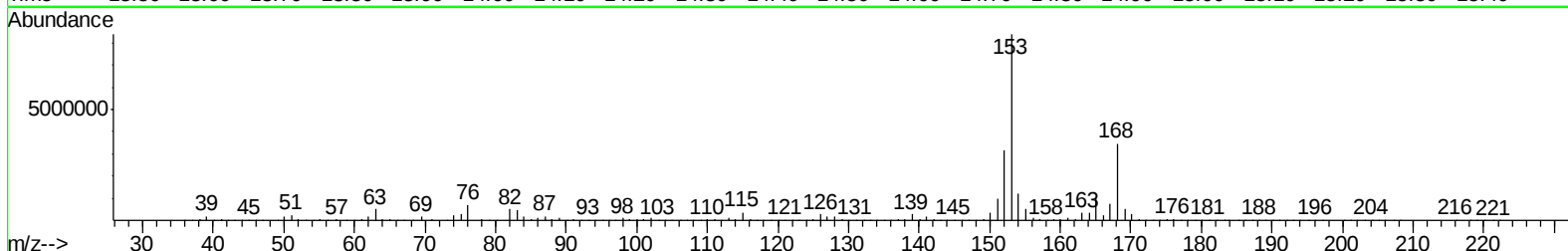
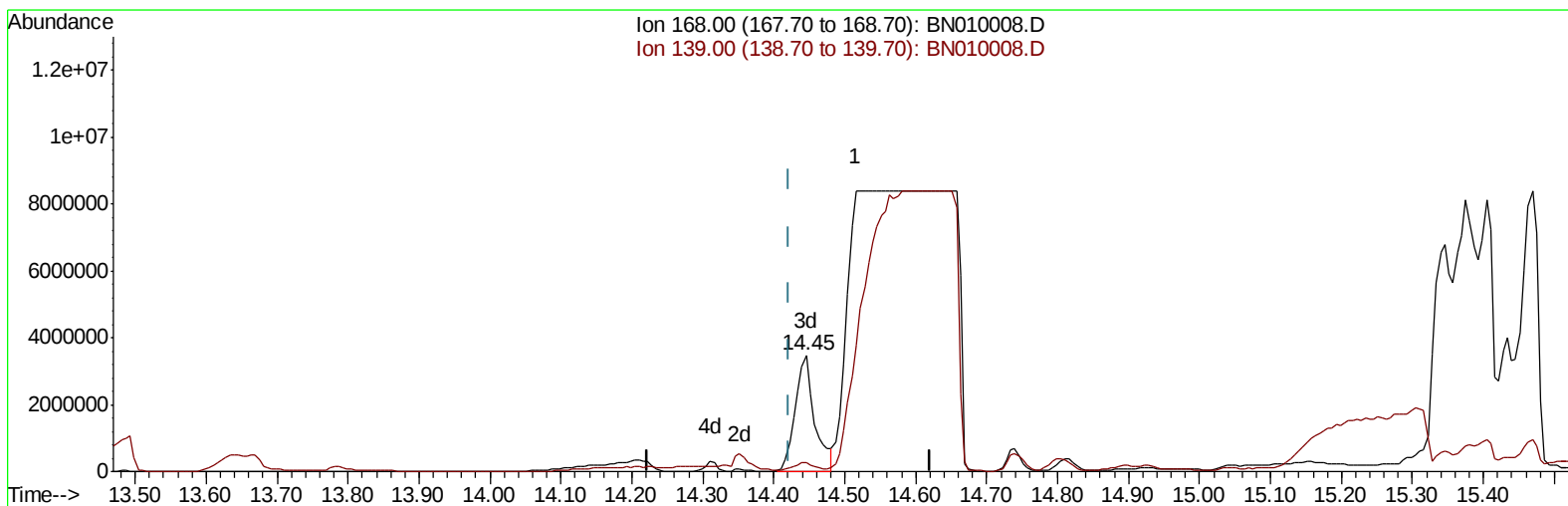
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:10:33 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(54) Dibenzofuran

14.445min (+0.024) 240.81ng/ul m

response 6664365

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 168.00 | 100   | 100   |
| 139.00 | 40.90 | 7.67# |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

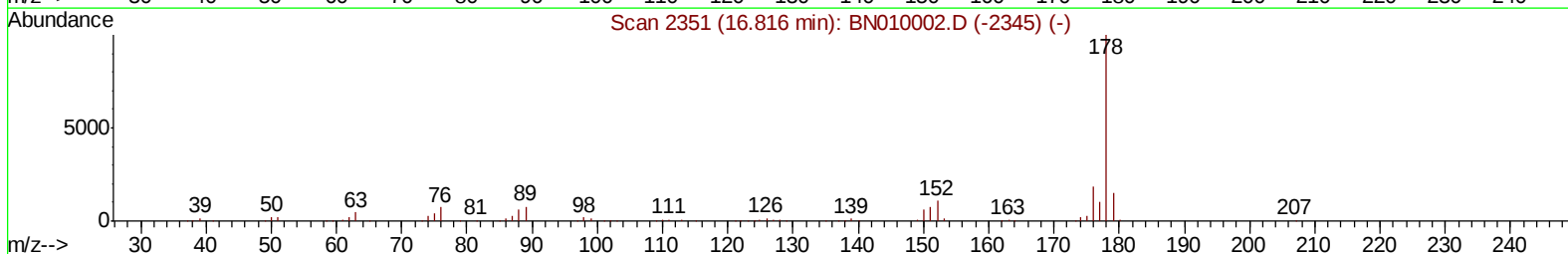
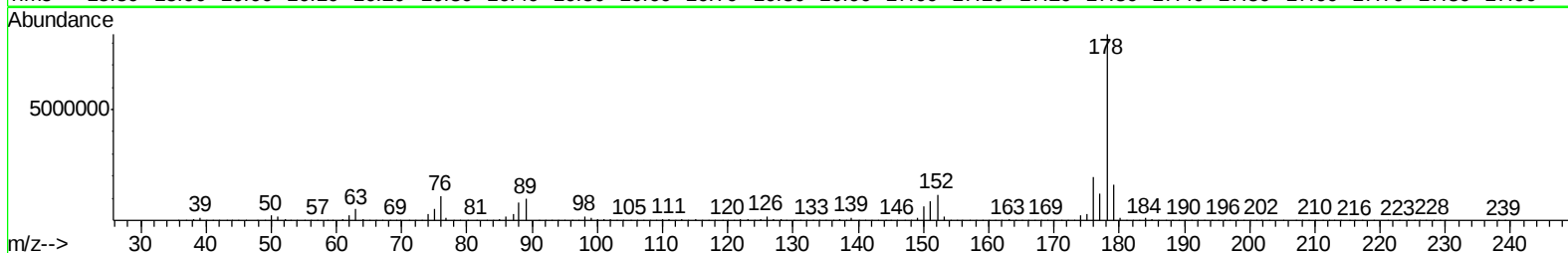
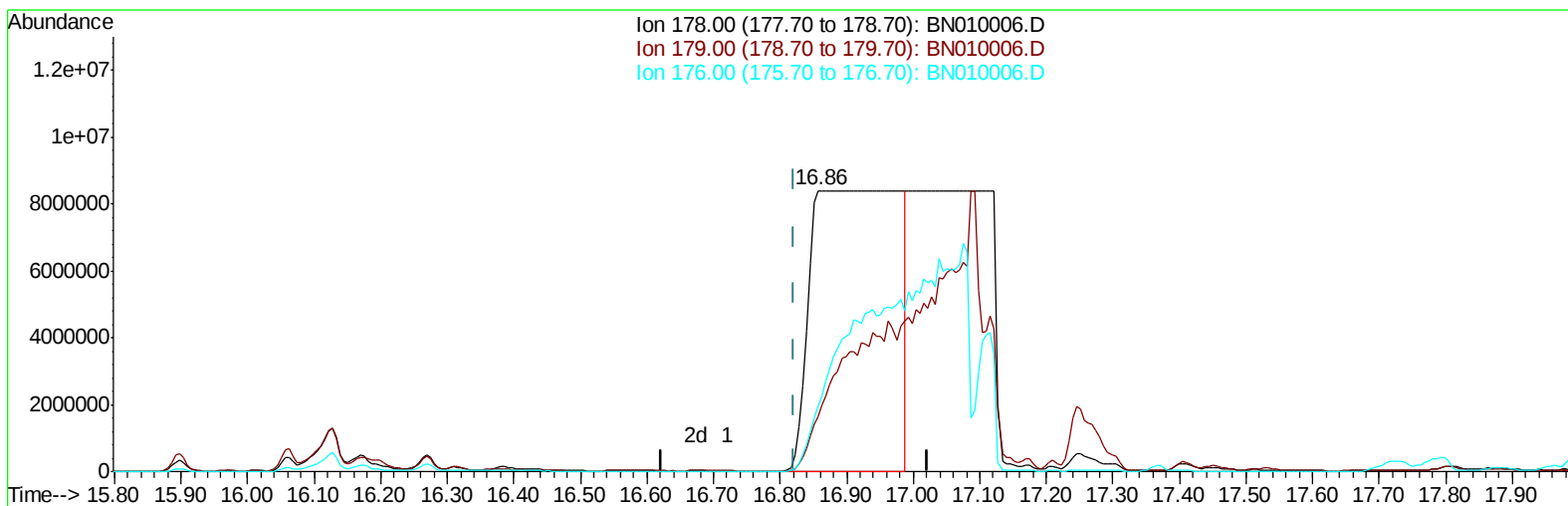
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010006.D  
Acq On : 29 Feb 2020 03:55  
Operator : CG/JU  
Sample : L1507-17RX  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 08:00:38 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Mar 02 07:32:18 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010006.D

(70) Phenanthrene

16.857min (+0.035) 3333.95ng/ul m

response 76196704

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.60 | 19.45# |
| 176.00 | 18.30 | 23.29# |
| 0.00   | 0.00  | 0.00   |

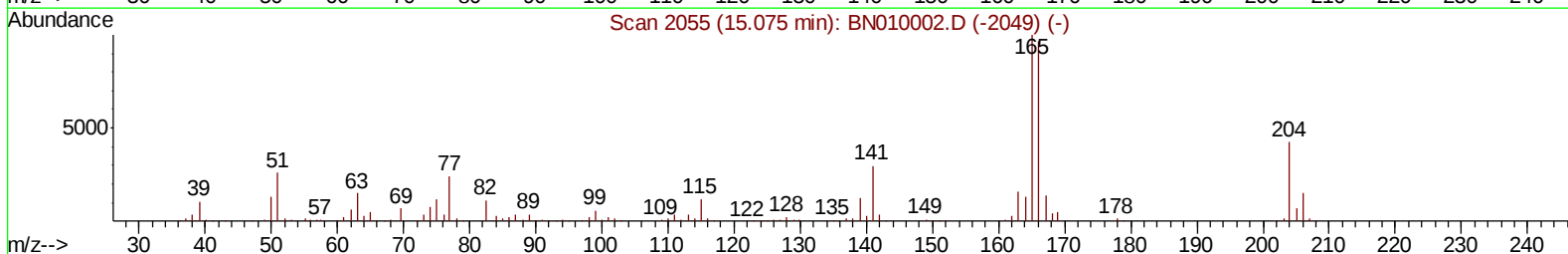
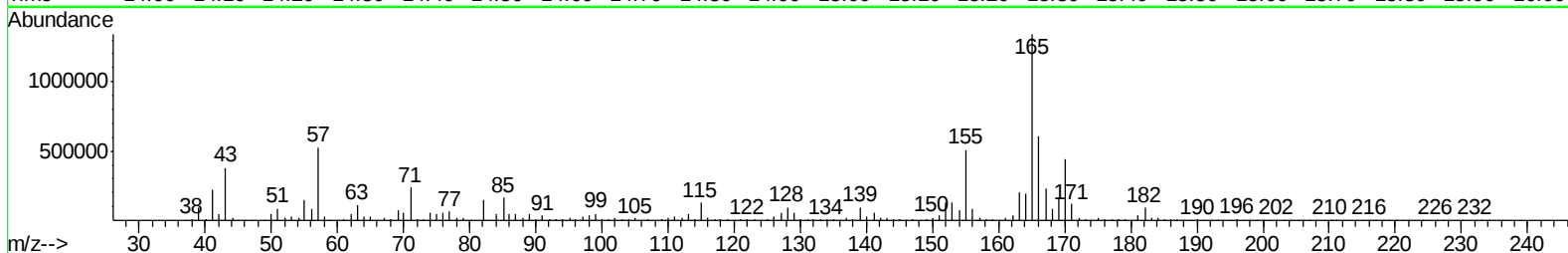
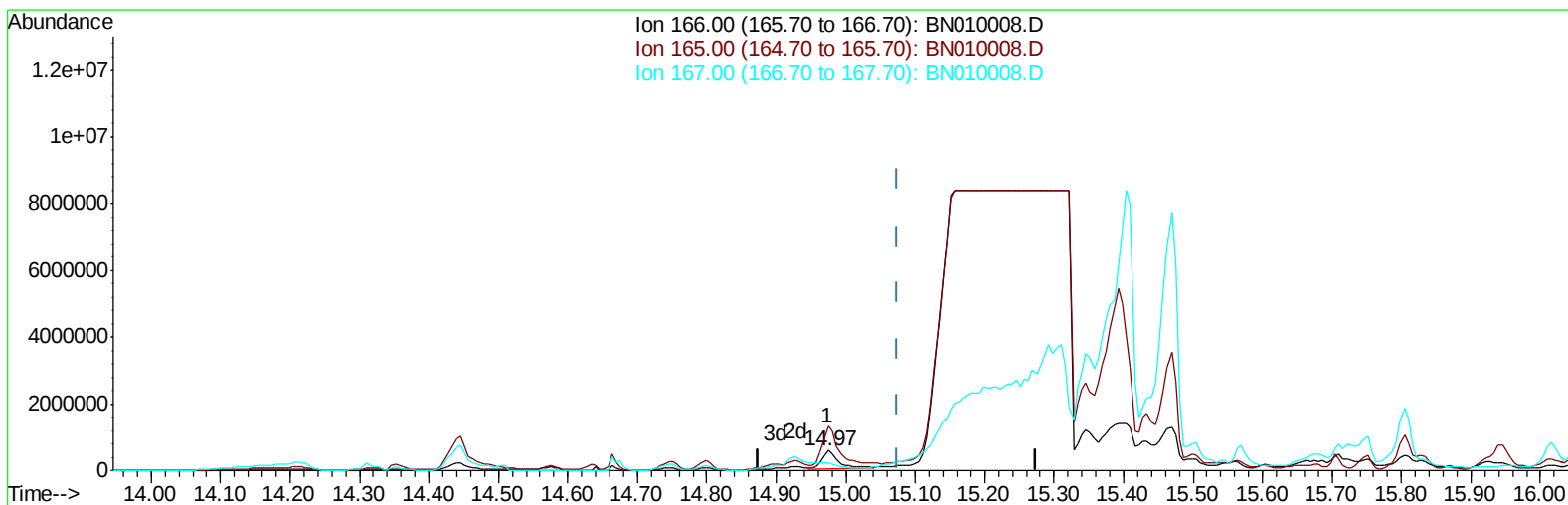
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:12:28 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(59) Fluorene

14.975min (-0.100) 39.46ng/ul

response 916558

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 166.00 | 100   | 100     |
| 165.00 | 99.80 | 221.42# |
| 167.00 | 13.40 | 37.64#  |
| 0.00   | 0.00  | 0.00    |

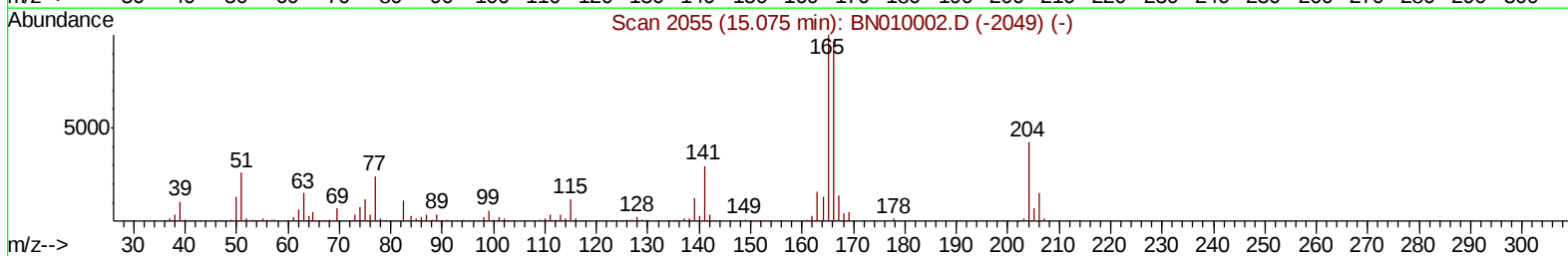
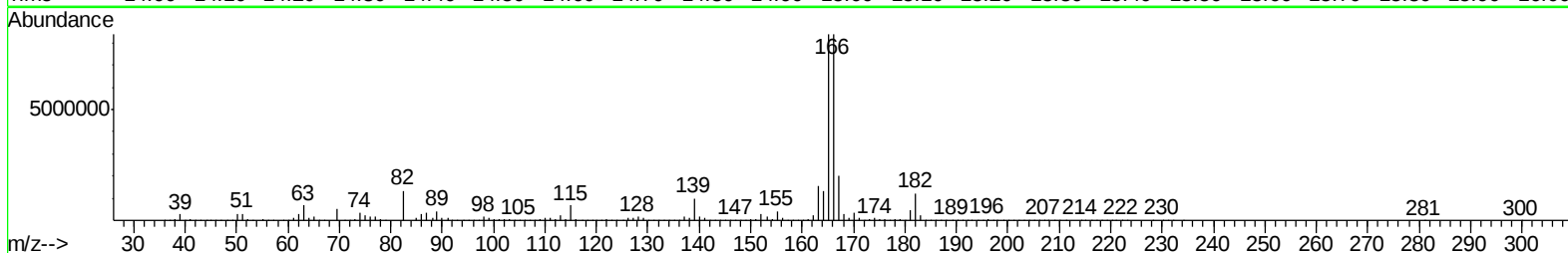
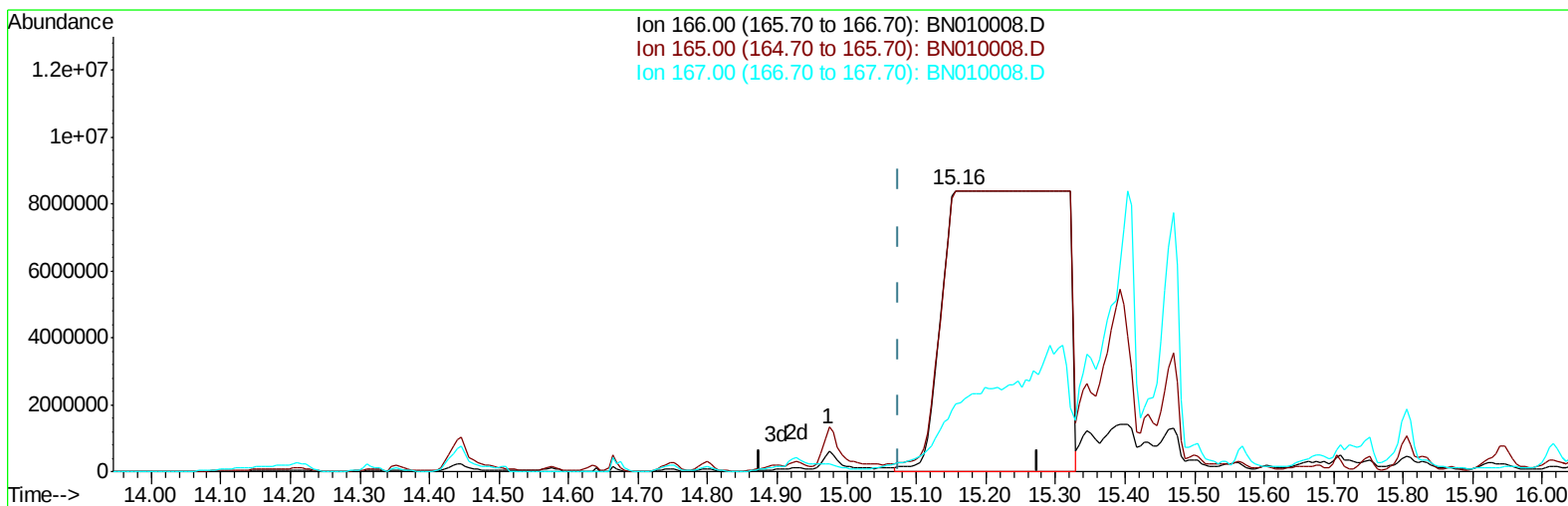
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:12:28 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(59) Fluorene

15.157min (+0.082) 4207.09ng/ul m

response 97712940

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 166.00 | 100   | 100    |
| 165.00 | 99.80 | 100.00 |
| 167.00 | 13.40 | 23.89# |
| 0.00   | 0.00  | 0.00   |

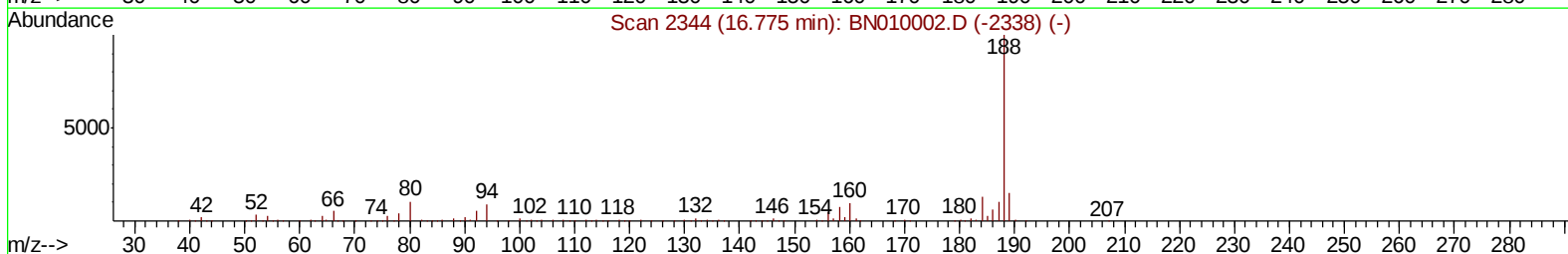
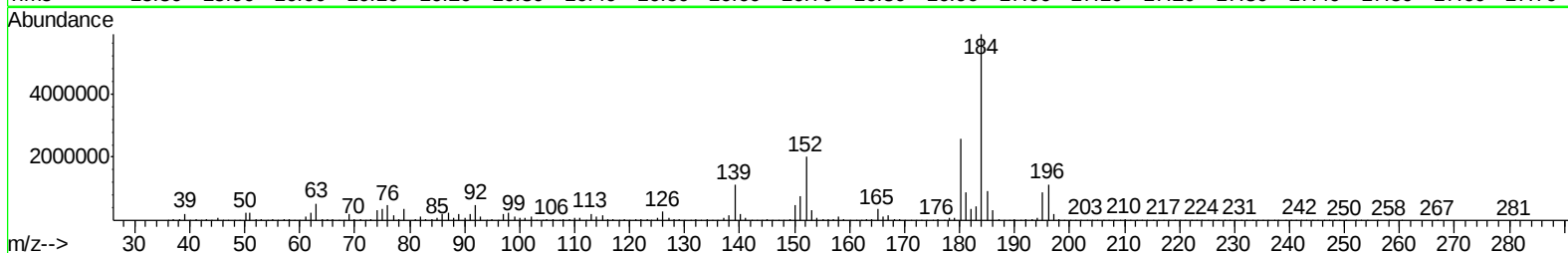
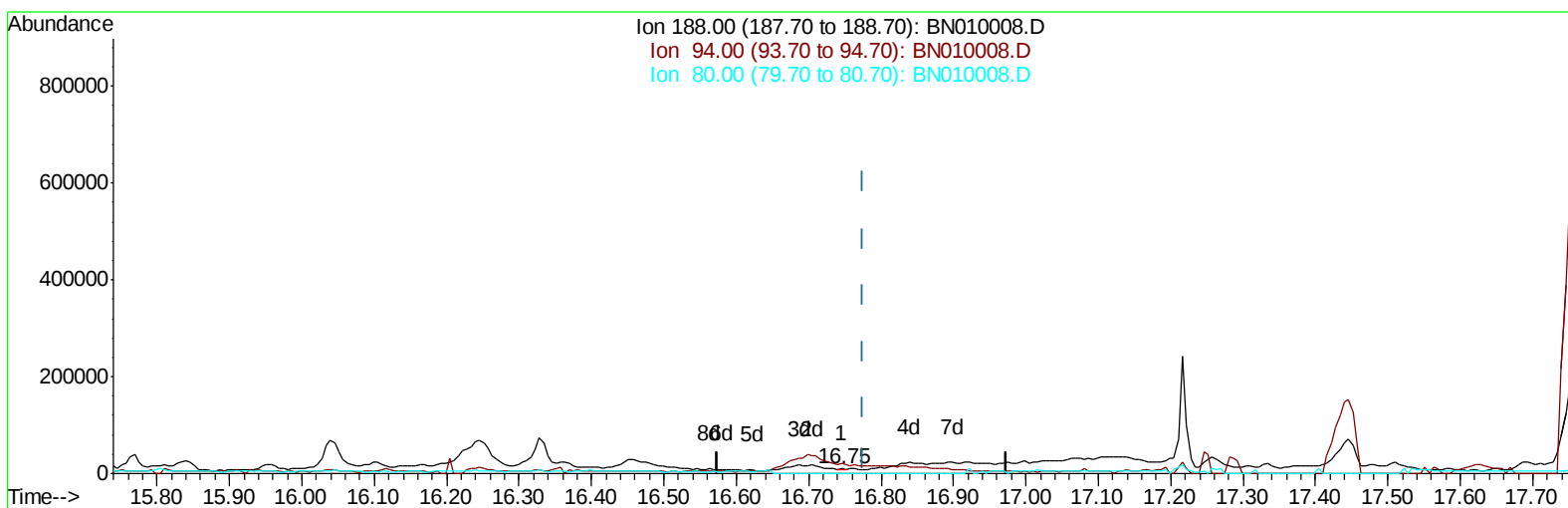
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:32:29 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(62) Phenanthrene-d10 (I)

16.745min (-0.029) 20.00ng/ul

response 543

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 188.00 | 100   | 100     |
| 94.00  | 9.40  | 215.28# |
| 80.00  | 10.90 | 0.00#   |
| 0.00   | 0.00  | 0.00    |

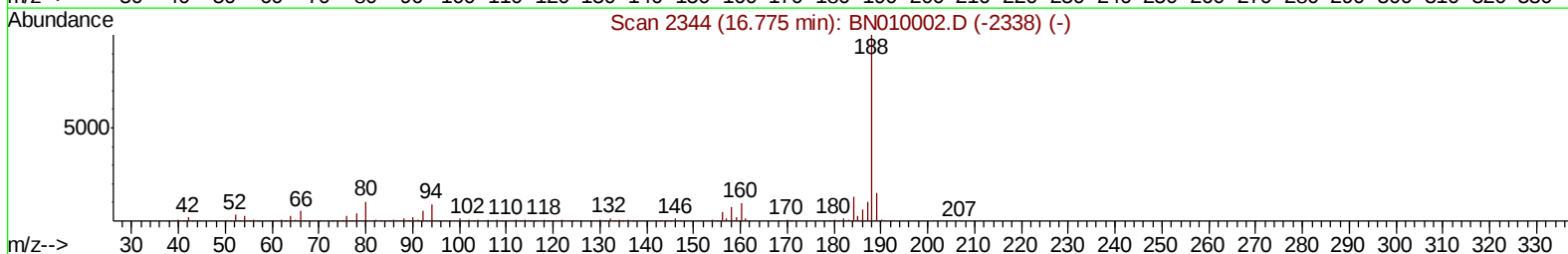
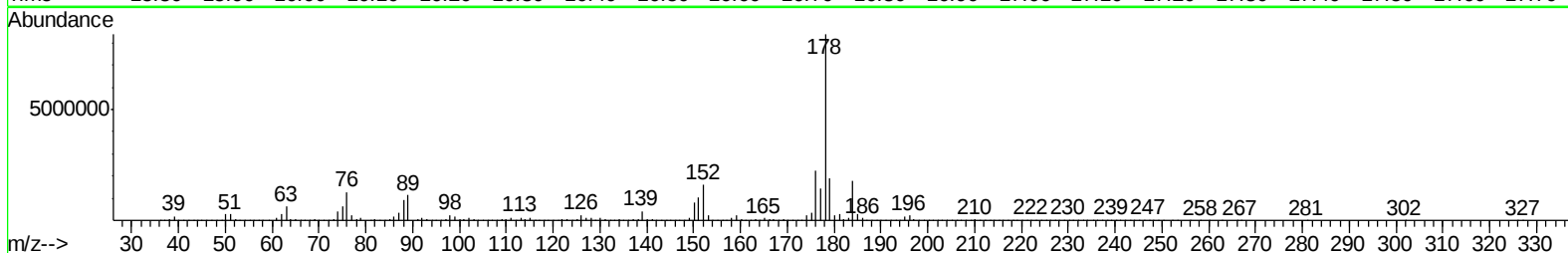
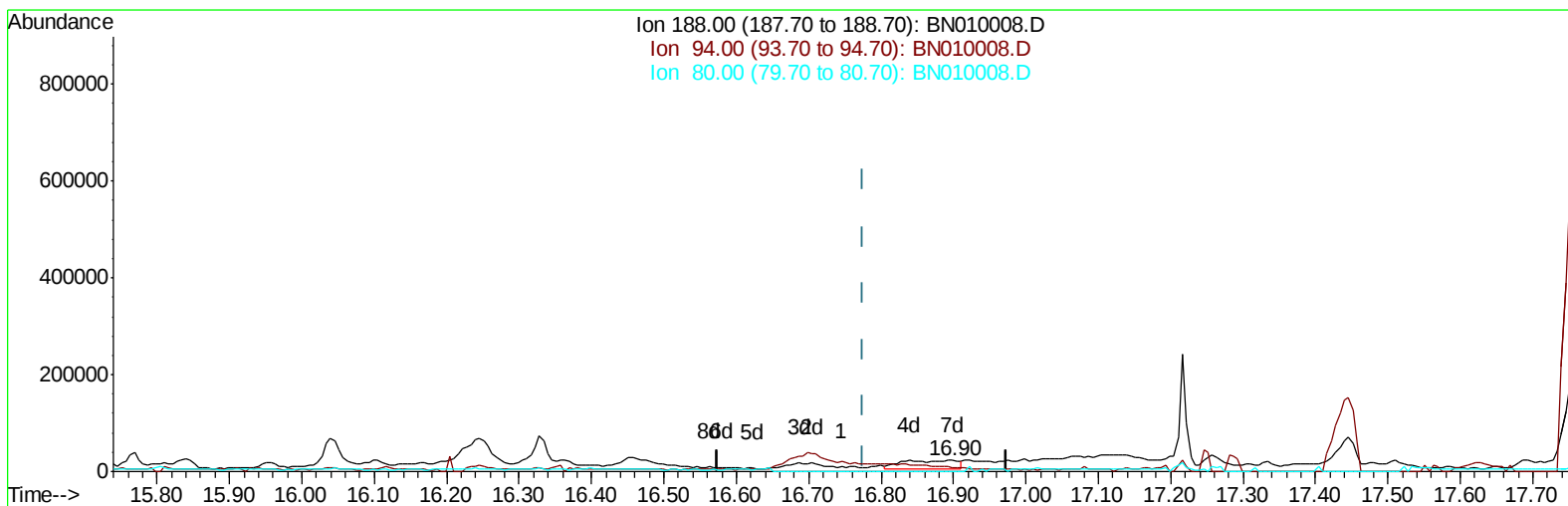
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:32:29 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(62) Phenanthrene-d10 (I)

16.898min (+0.124) 20.00ng/ul m

response 89749

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 9.40  | 35.39# |
| 80.00  | 10.90 | 0.00#  |
| 0.00   | 0.00  | 0.00   |

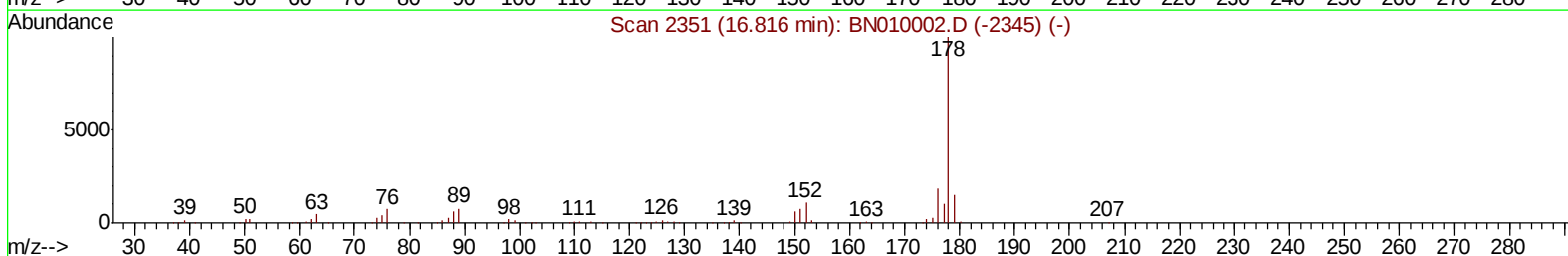
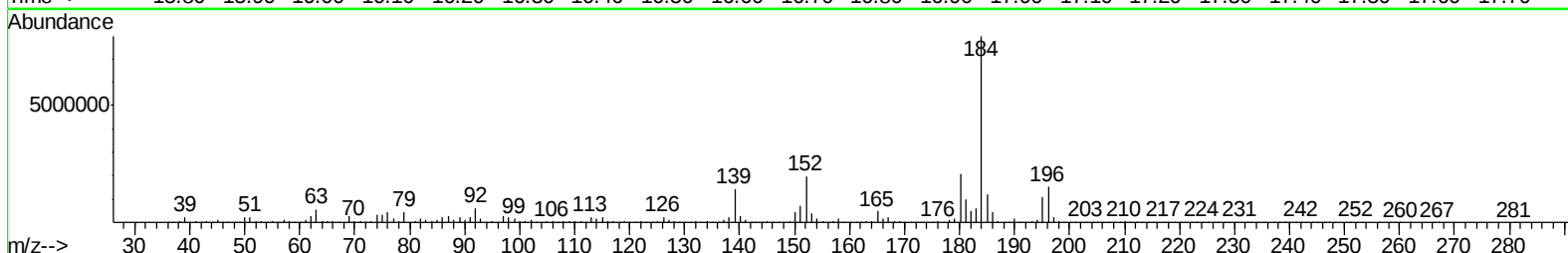
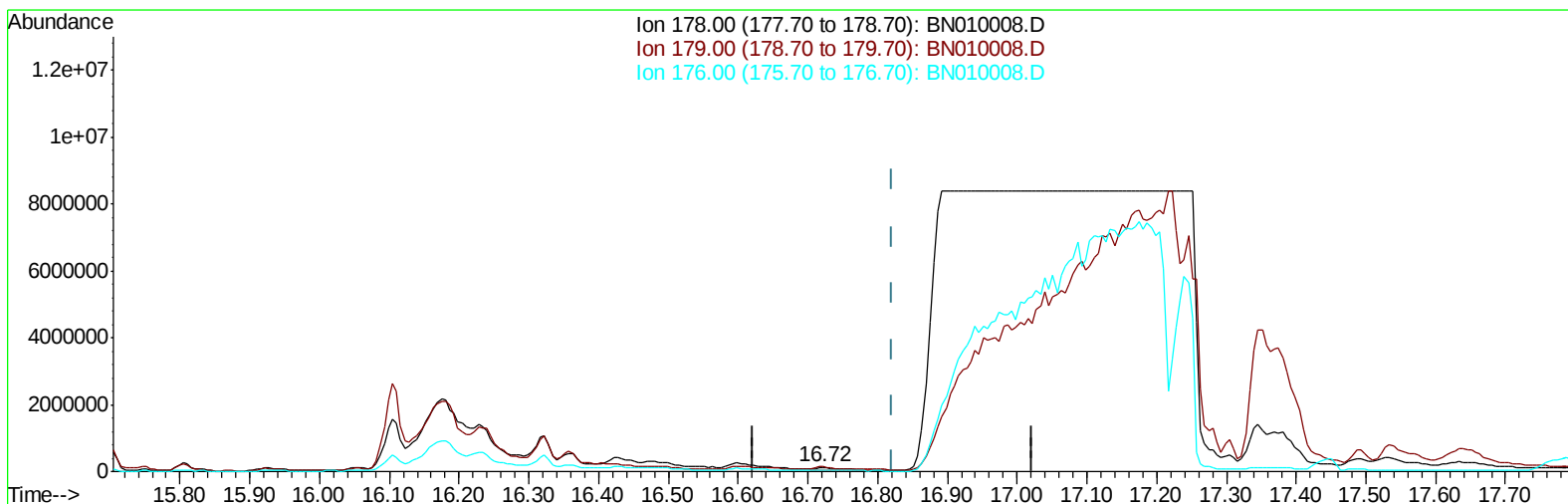
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:37:00 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(70) Phenanthrene

16.722min (-0.100) 25.72ng/ul

response 131724

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 178.00 | 100   | 100     |
| 179.00 | 15.60 | 133.13# |
| 176.00 | 18.30 | 34.26#  |
| 0.00   | 0.00  | 0.00    |

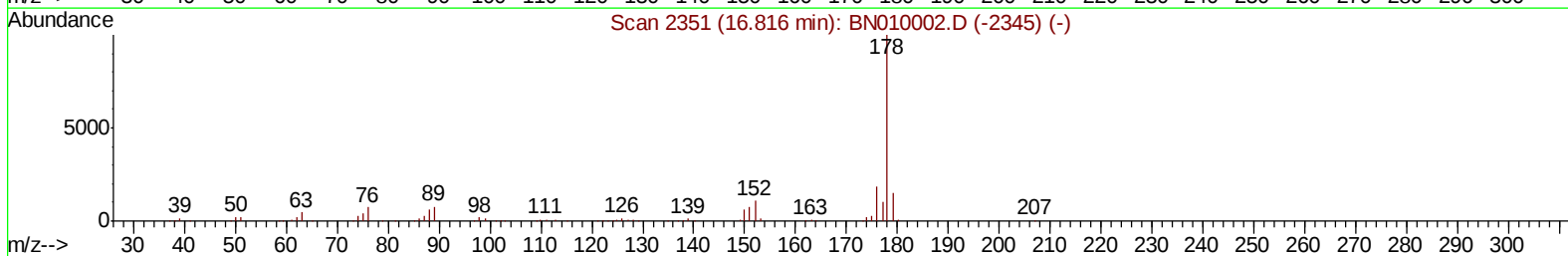
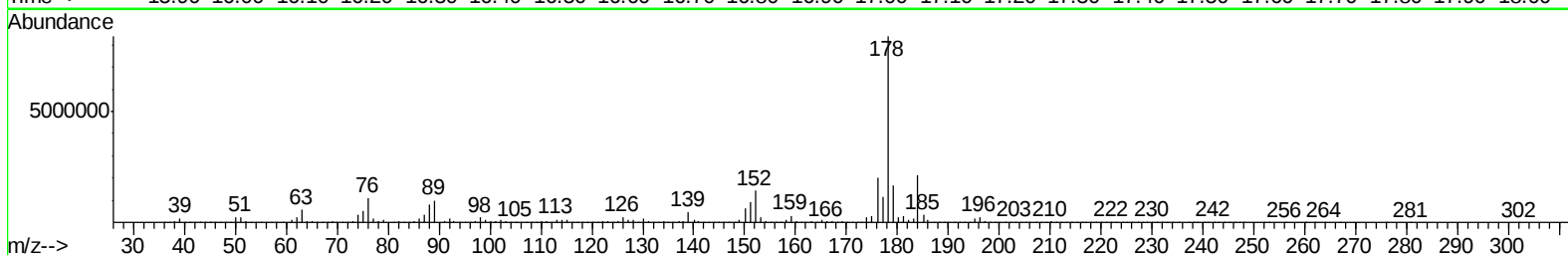
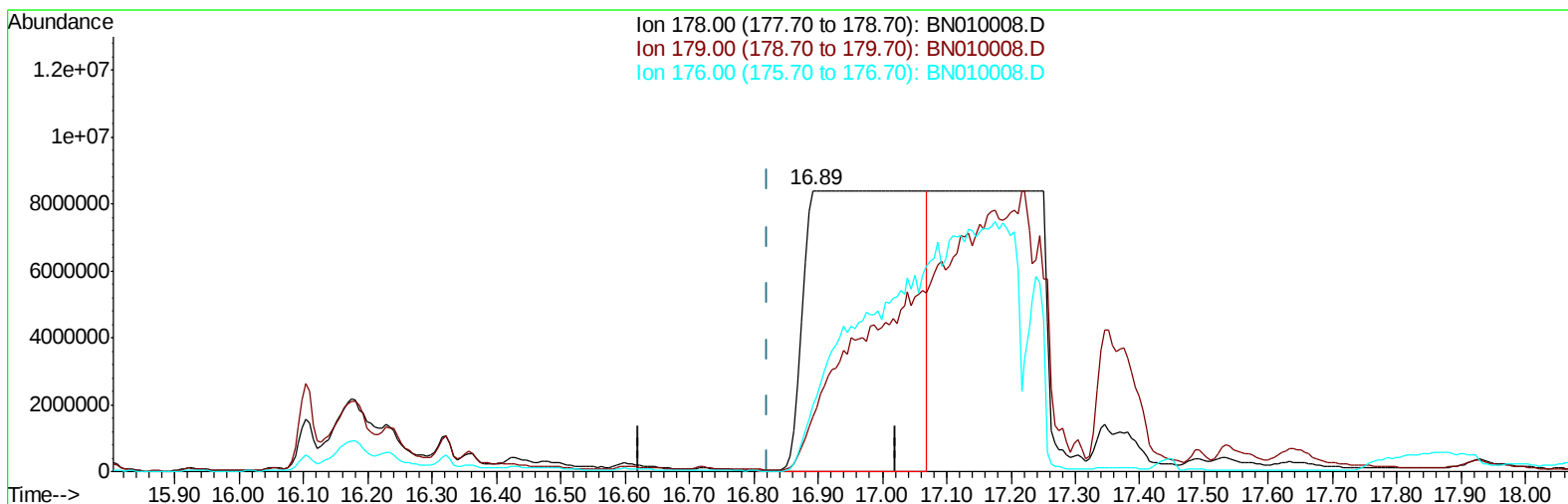
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:37:00 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(70) Phenanthrene

16.892min (+0.071) 19526.02ng/ul m

response 100012023

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.60 | 19.55# |
| 176.00 | 18.30 | 23.71# |
| 0.00   | 0.00  | 0.00   |

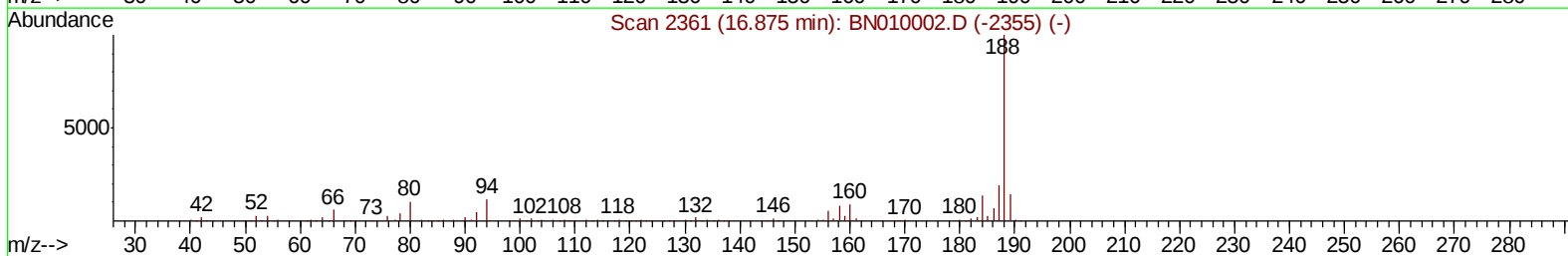
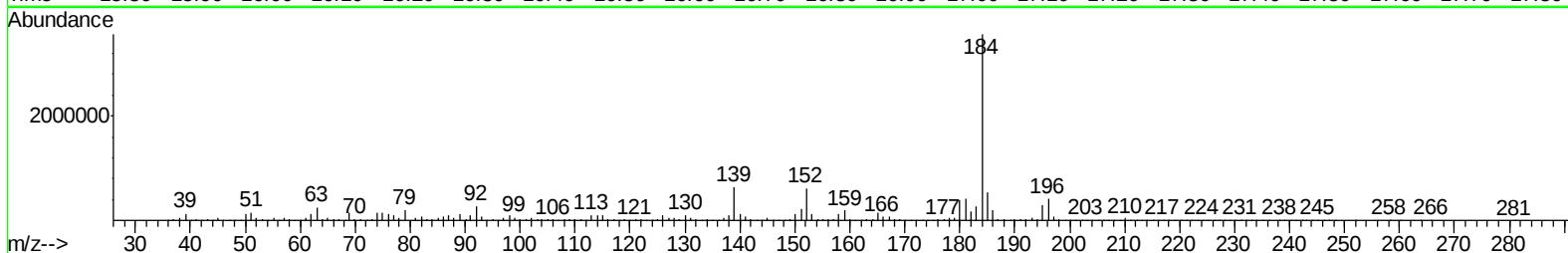
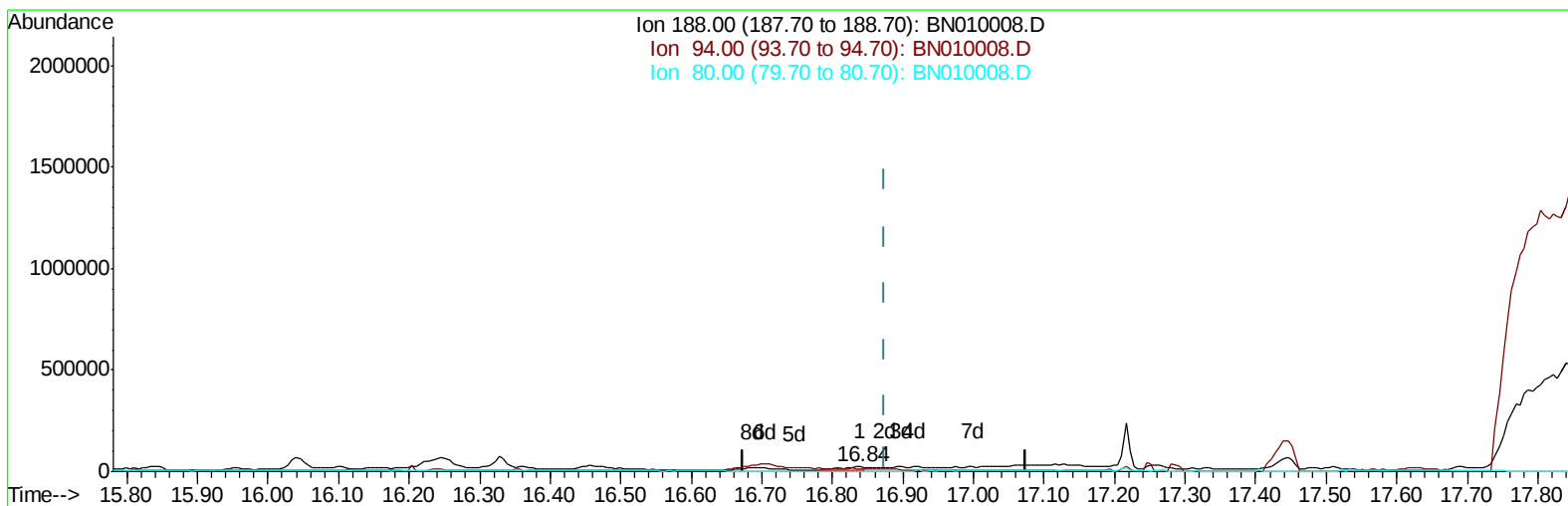
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:37:00 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(71) Anthracene-d10 (S)

16.840min (-0.035) 6.83ng/ul

response 28079

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 11.80 | 58.01# |
| 80.00  | 11.10 | 0.00#  |
| 0.00   | 0.00  | 0.00   |

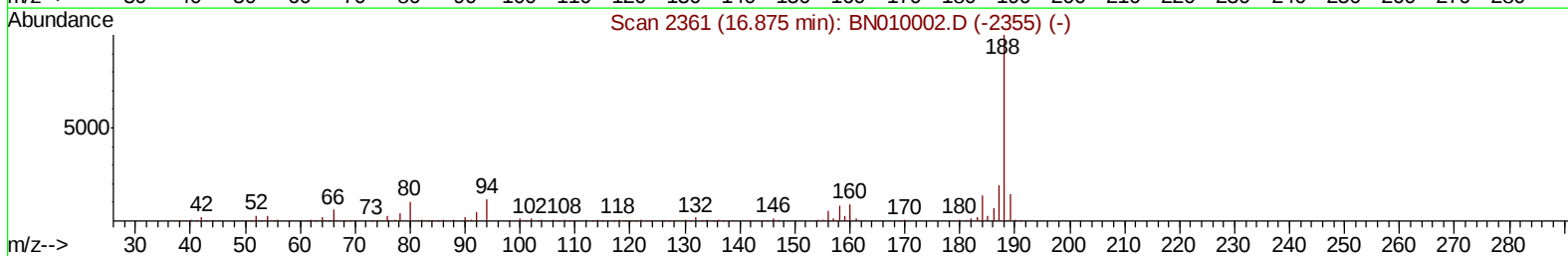
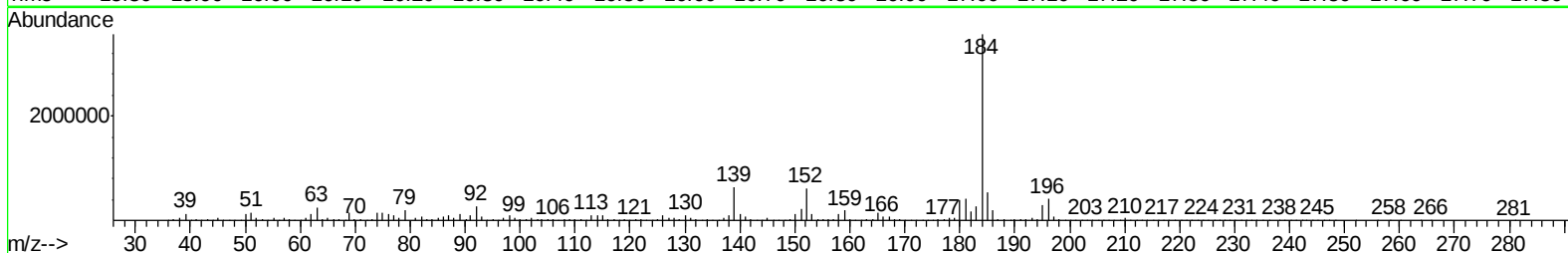
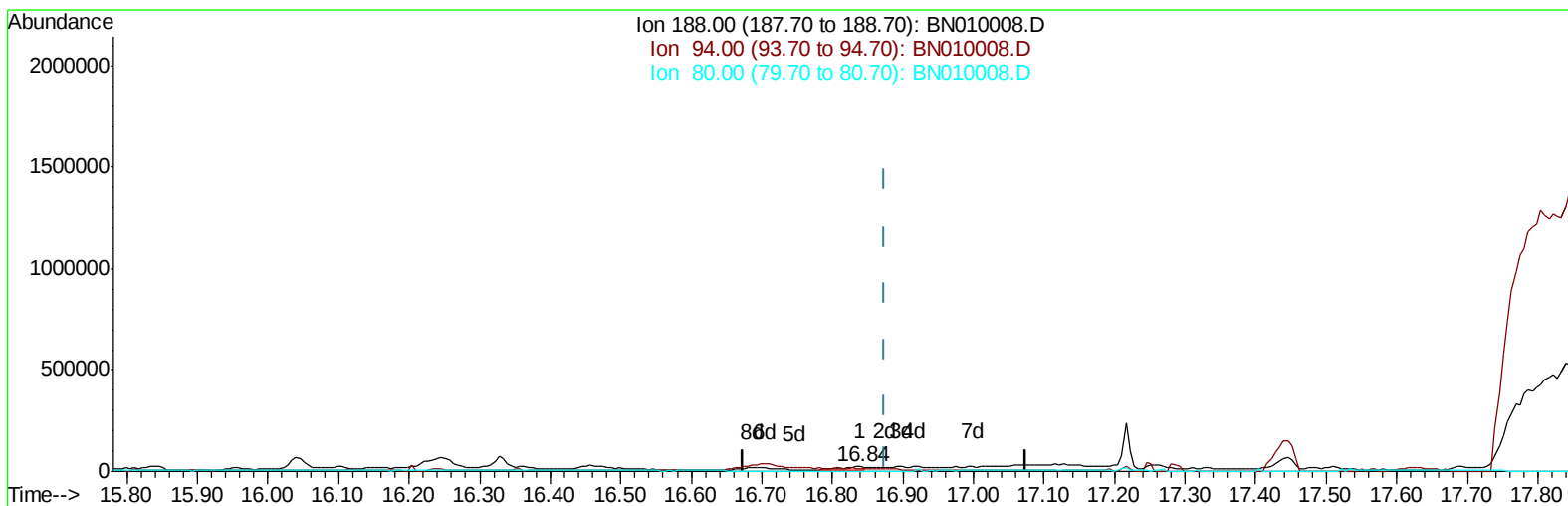
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:53:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(71) Anthracene-d10 (S)

16.840min (-0.035) 6.83ng/ul

response 28079

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 11.80 | 58.01# |
| 80.00  | 11.10 | 0.00#  |
| 0.00   | 0.00  | 0.00   |

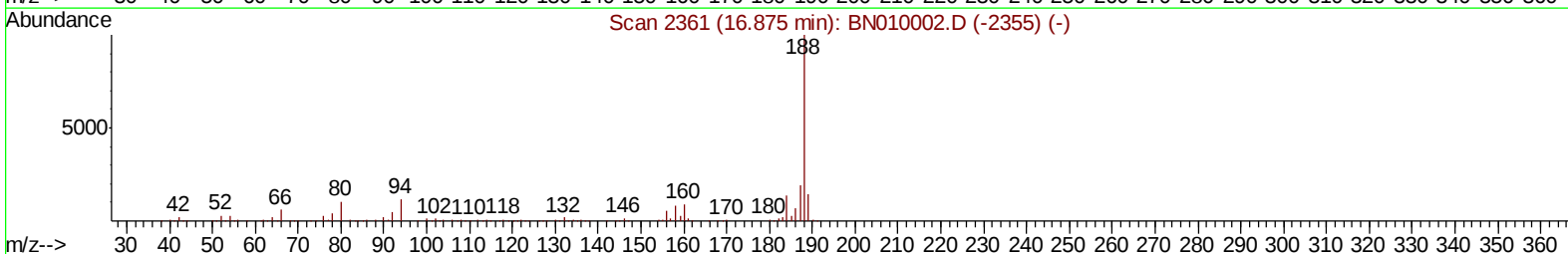
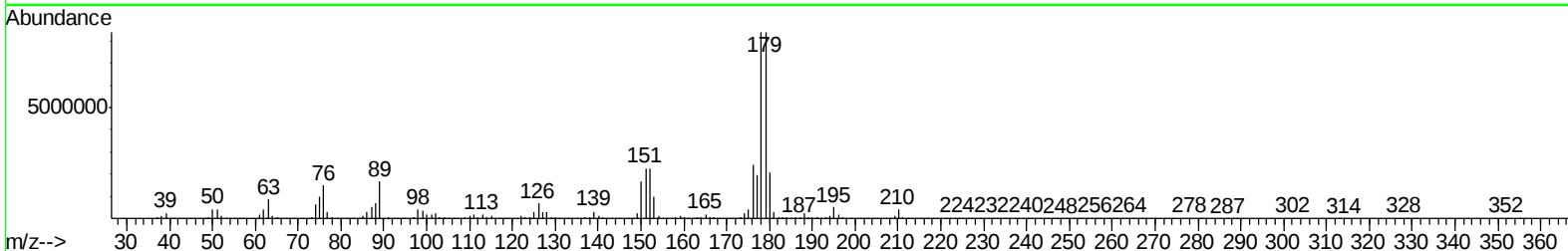
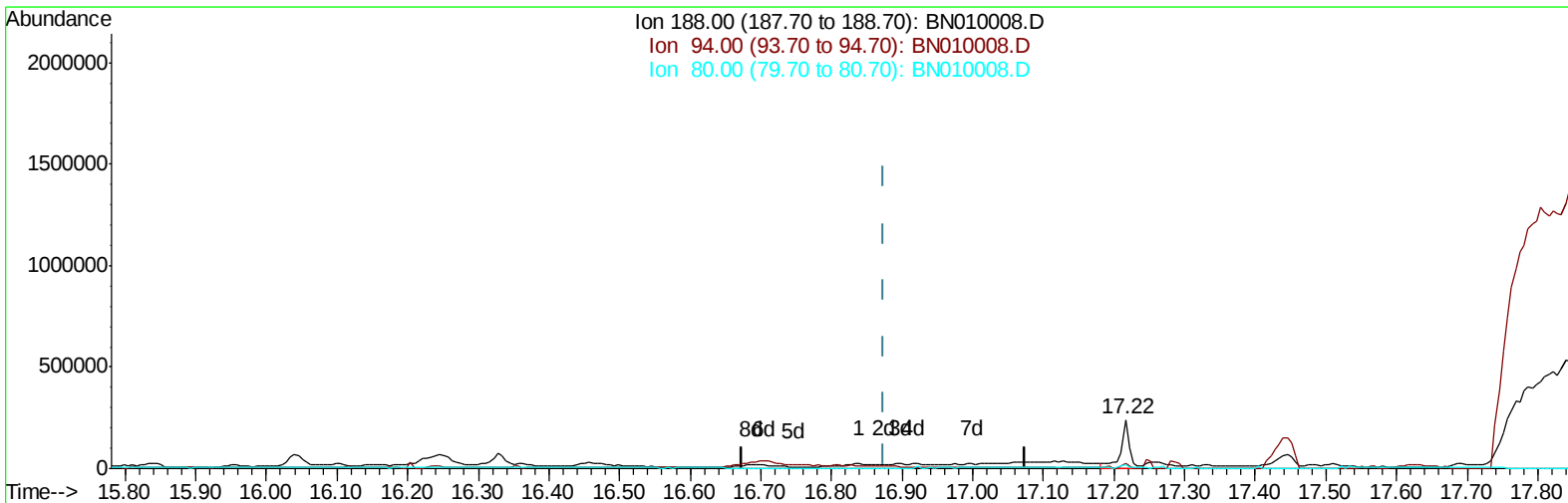
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:53:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(71) Anthracene-d10 (S)

17.216min (+0.341) 48.92ng/ul m

response 201242

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.80 | 9.42# |
| 80.00  | 11.10 | 7.38# |
| 0.00   | 0.00  | 0.00  |

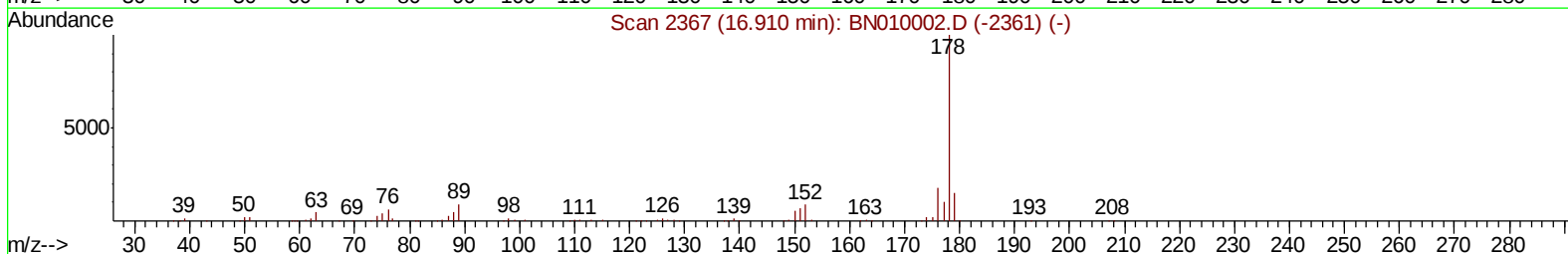
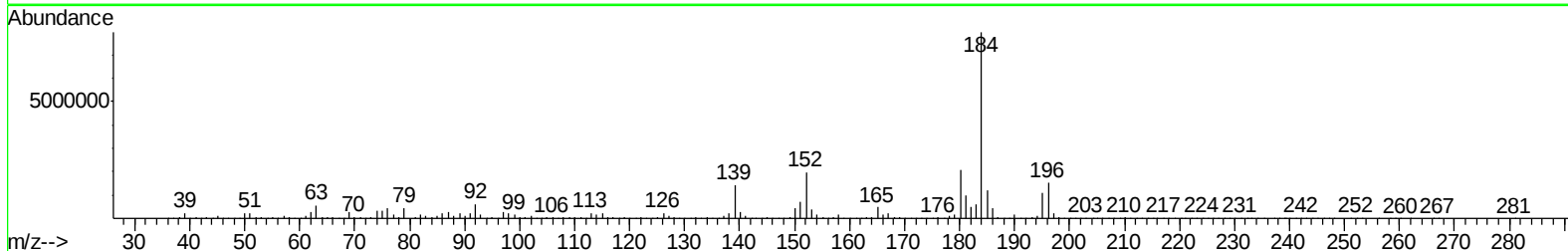
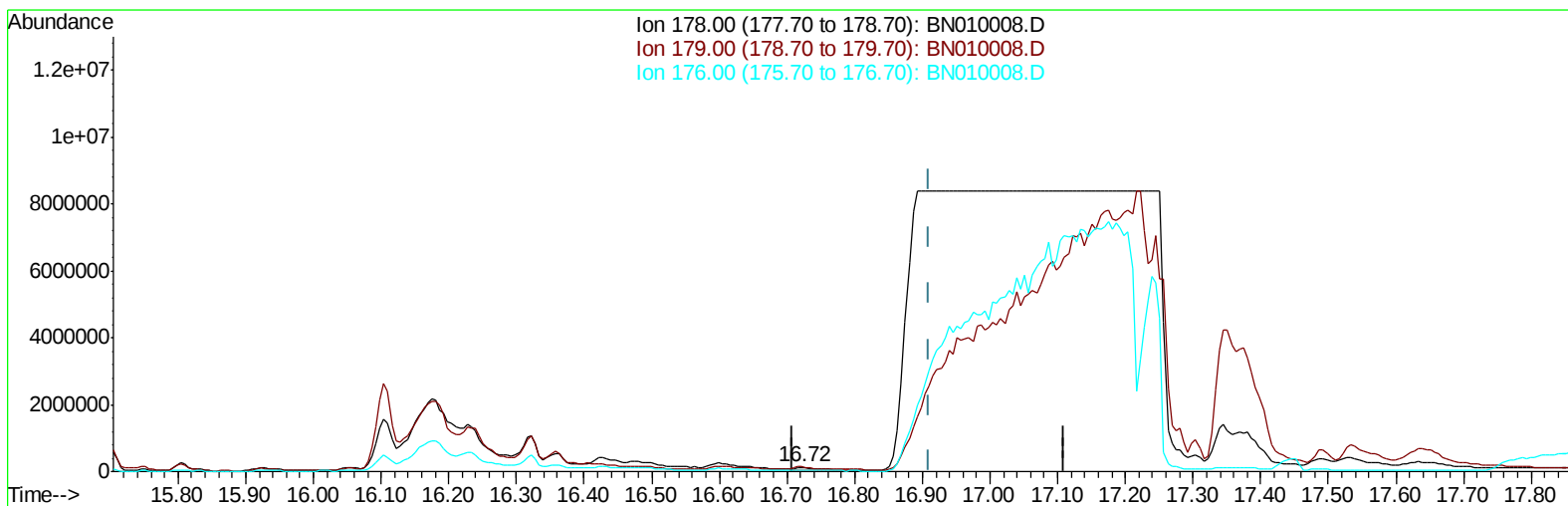
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
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3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:53:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(72) Anthracene

16.722min (-0.188) 25.16ng/ul

response 131724

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 178.00 | 100   | 100     |
| 179.00 | 15.20 | 133.13# |
| 176.00 | 18.20 | 34.26#  |
| 0.00   | 0.00  | 0.00    |

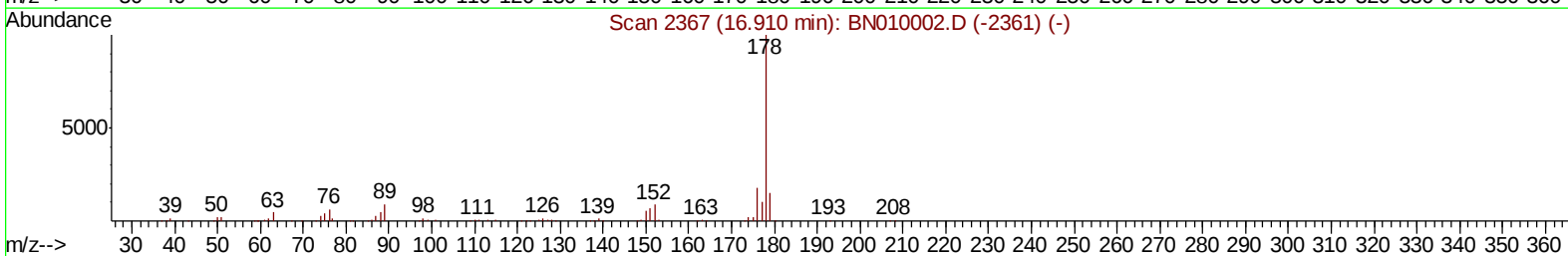
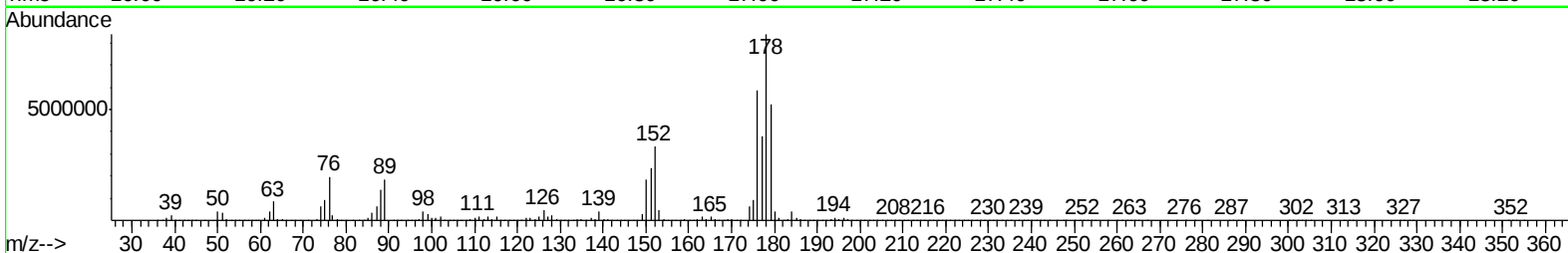
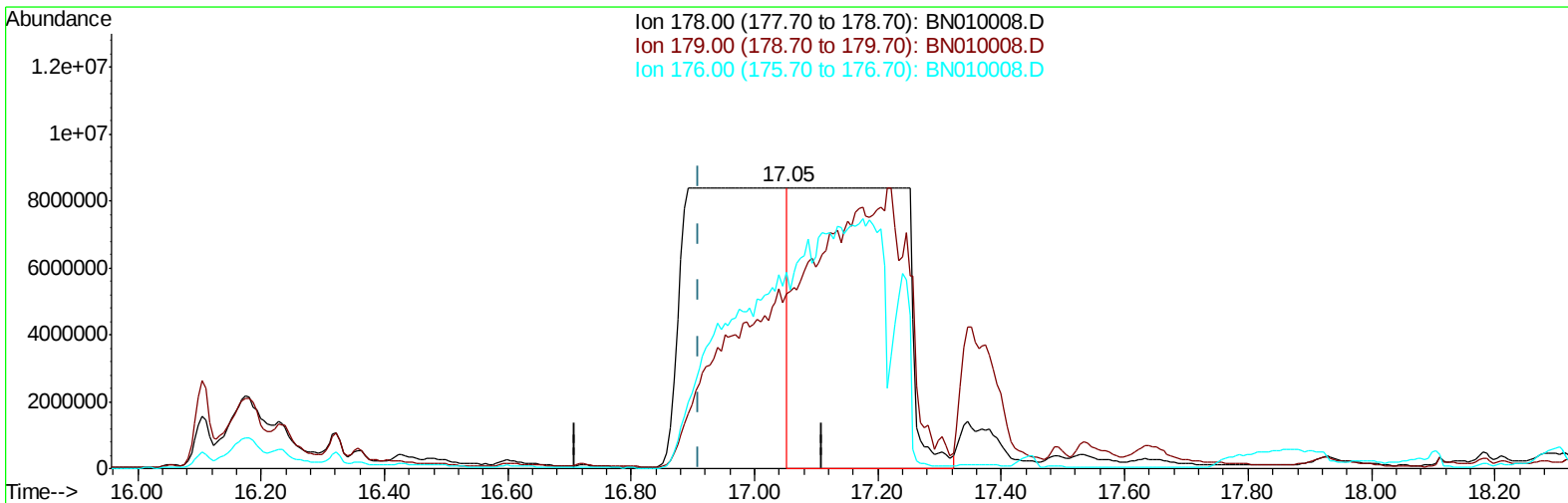
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:53:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(72) Anthracene

17.051min (+0.141) 19947.38ng/ul m

response 104445999

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.20 | 62.14# |
| 176.00 | 18.20 | 69.91# |
| 0.00   | 0.00  | 0.00   |

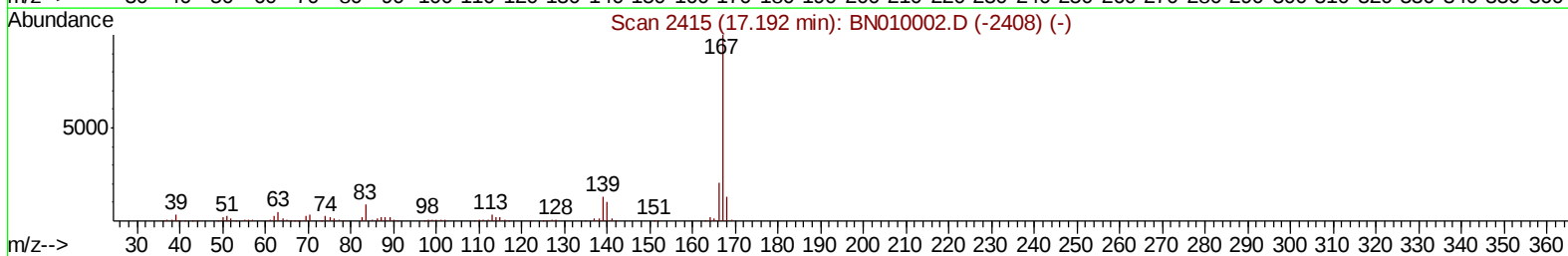
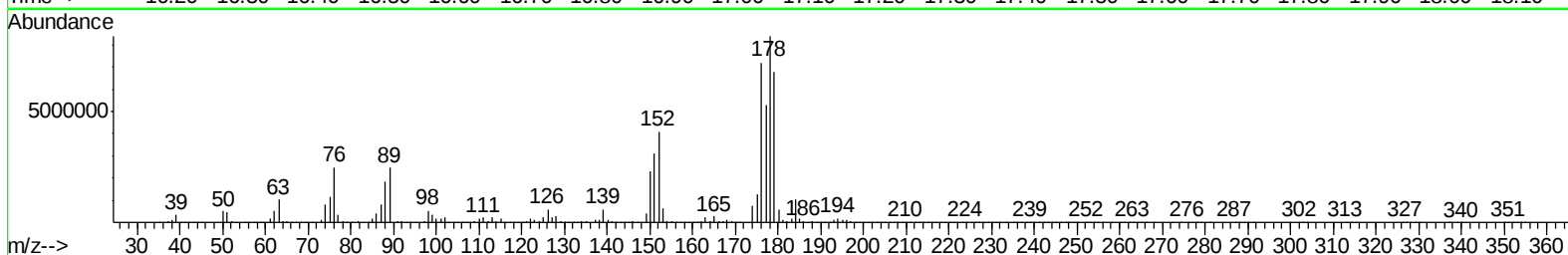
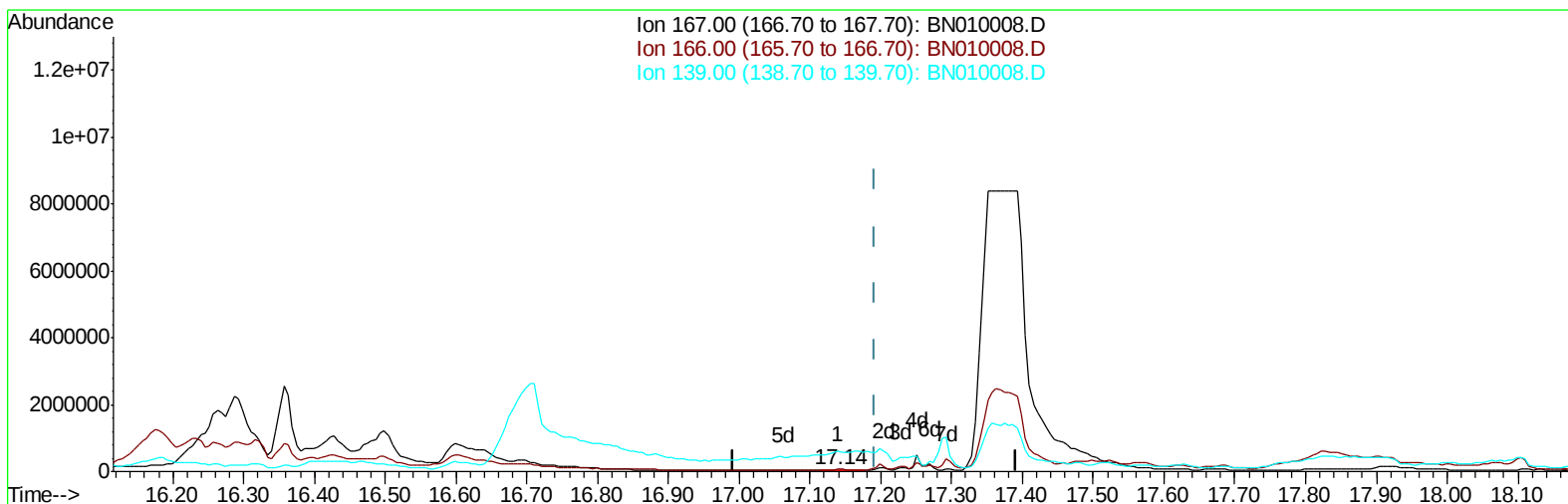
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:57:15 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(75) Carbazole

17.139min (-0.053) 9.01ng/ul

response 41563

| Ion    | Exp%  | Act%     |
|--------|-------|----------|
| 167.00 | 100   | 100      |
| 166.00 | 20.70 | 108.29#  |
| 139.00 | 12.40 | 1016.83# |
| 0.00   | 0.00  | 0.00     |

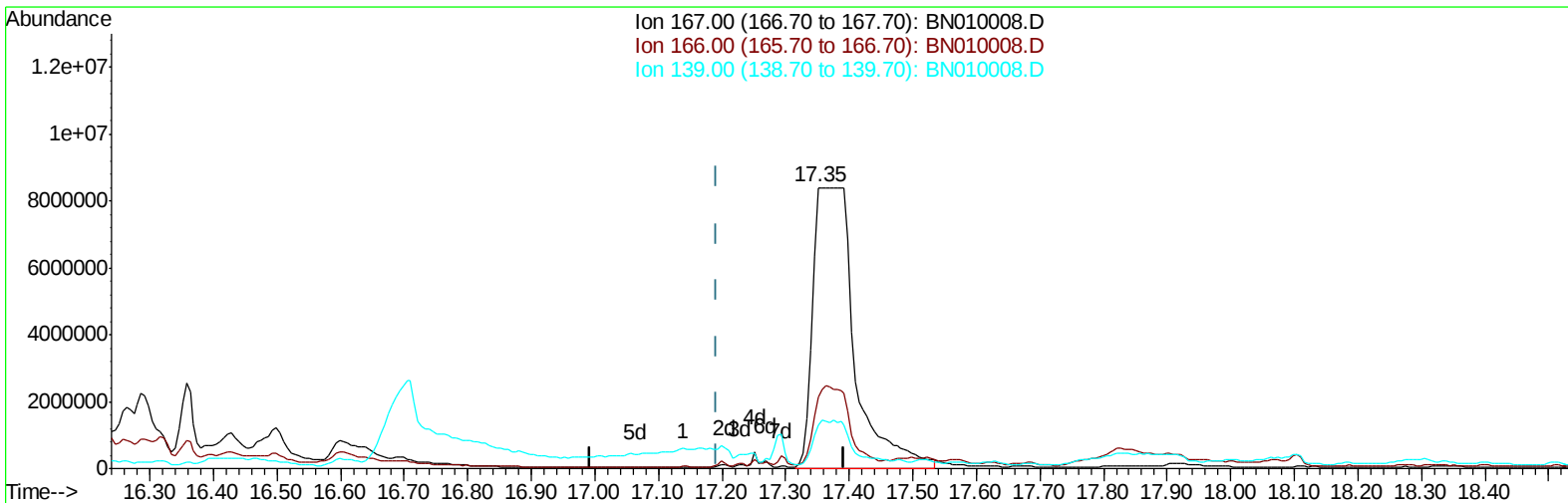
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:57:15 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



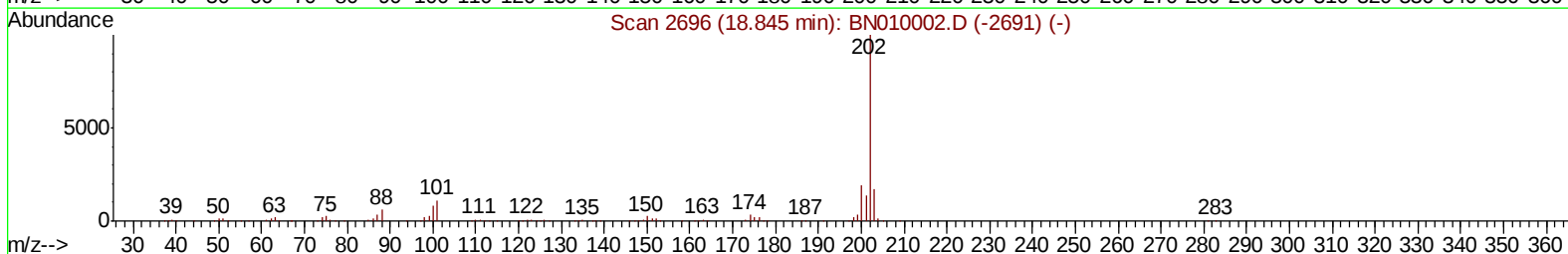
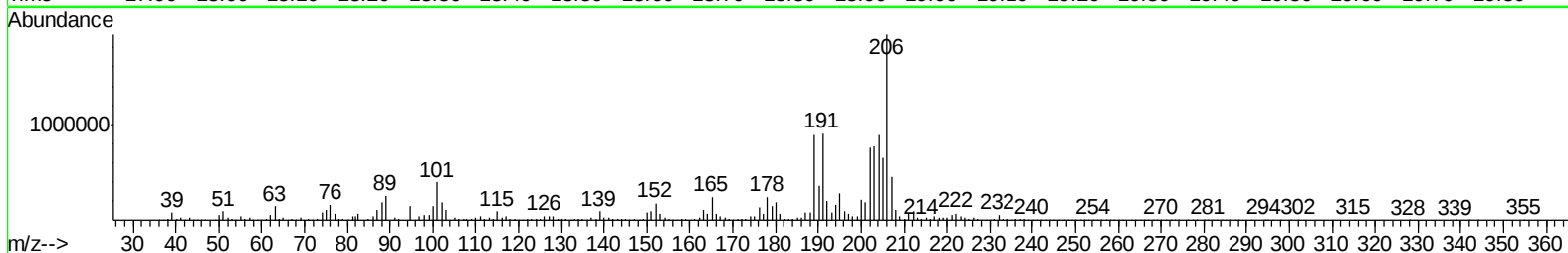
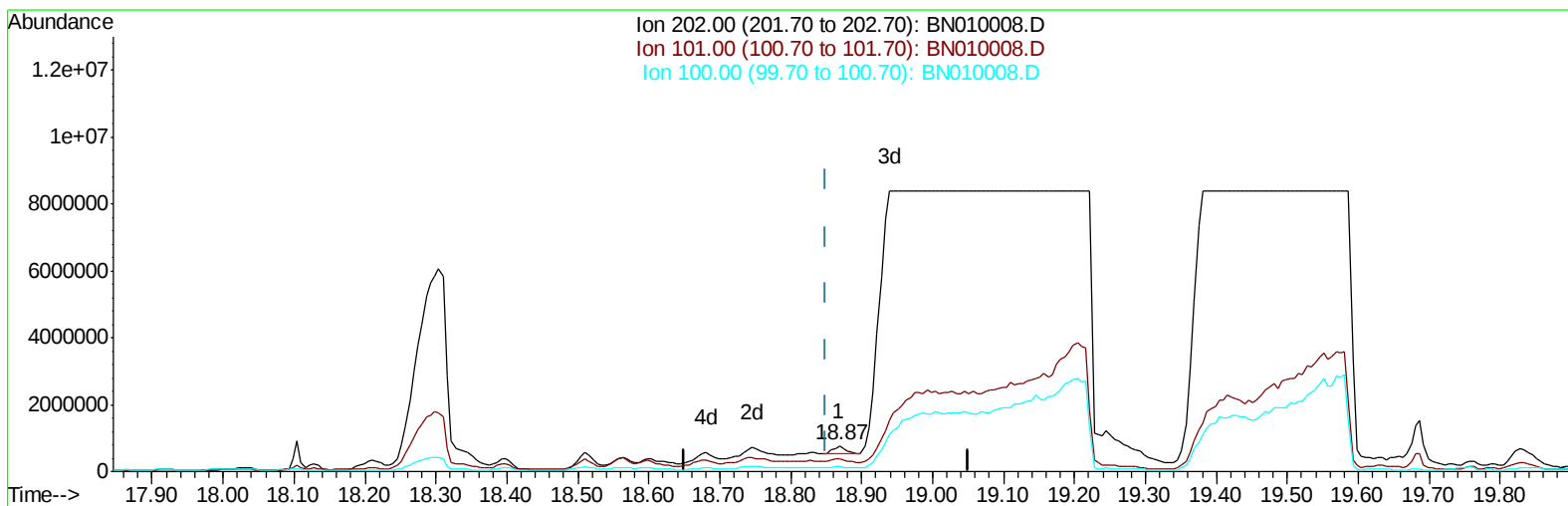
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 11:57:15 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(77) Fluoranthene (C)

18.869min (+0.018) 53.90ng/ul

response 323382

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 11.80 | 51.41# |
| 100.00 | 9.00  | 19.50# |
| 0.00   | 0.00  | 0.00   |

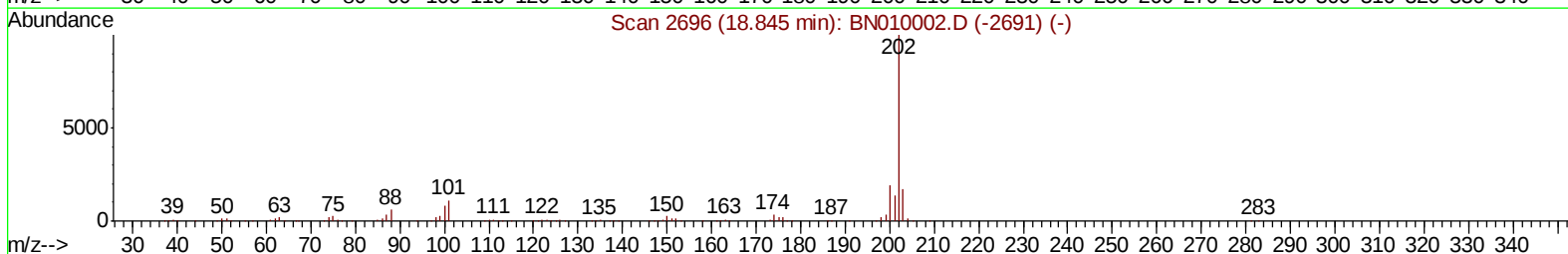
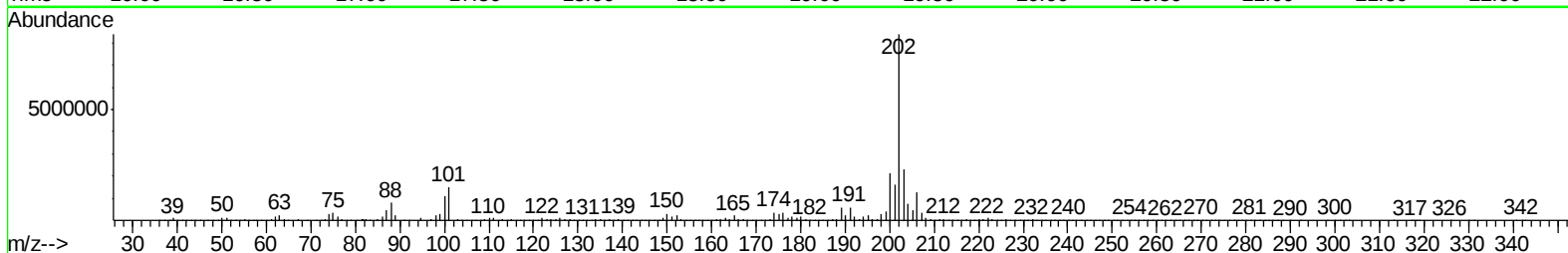
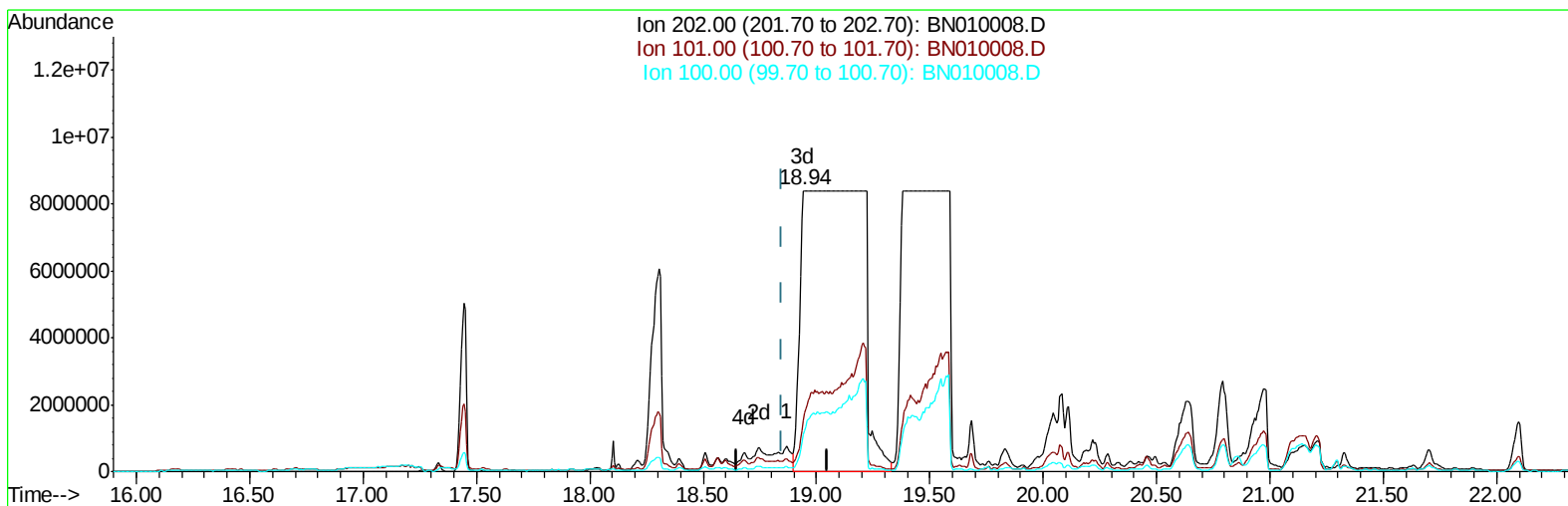
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:57:15 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(77) Fluoranthene (C)

18.939min (+0.088) 26243.79ng/ul m

response 157454647

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 11.80 | 18.04# |
| 100.00 | 9.00  | 13.10# |
| 0.00   | 0.00  | 0.00   |

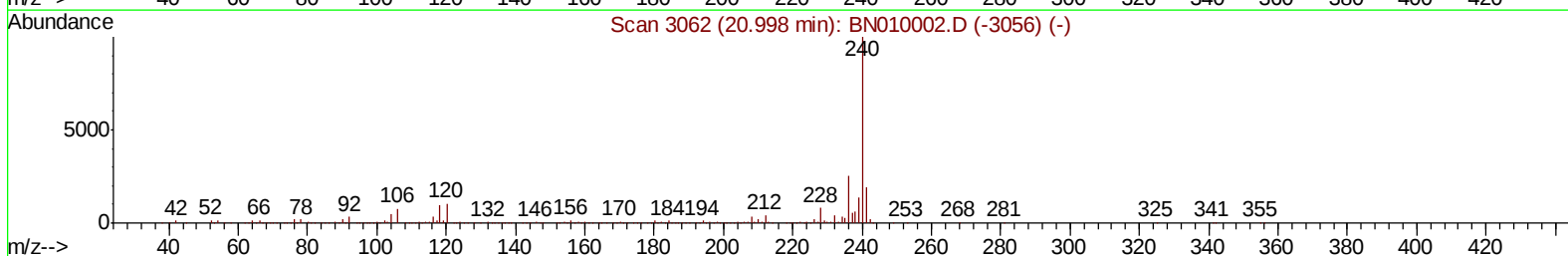
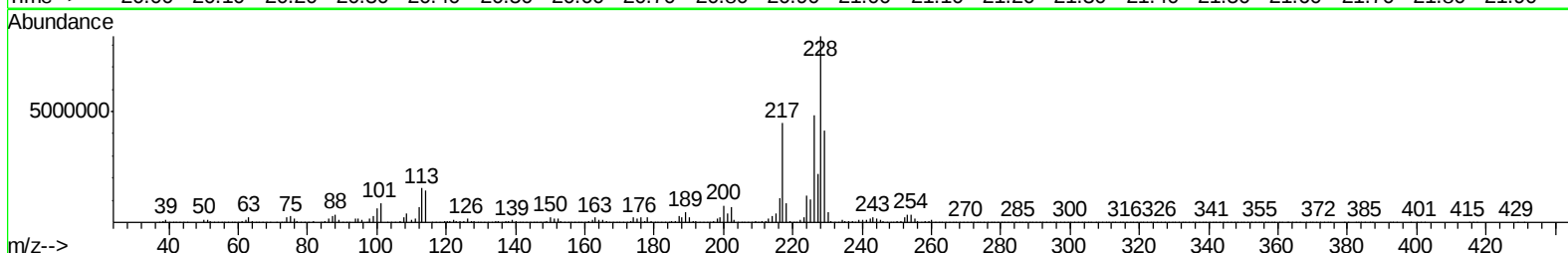
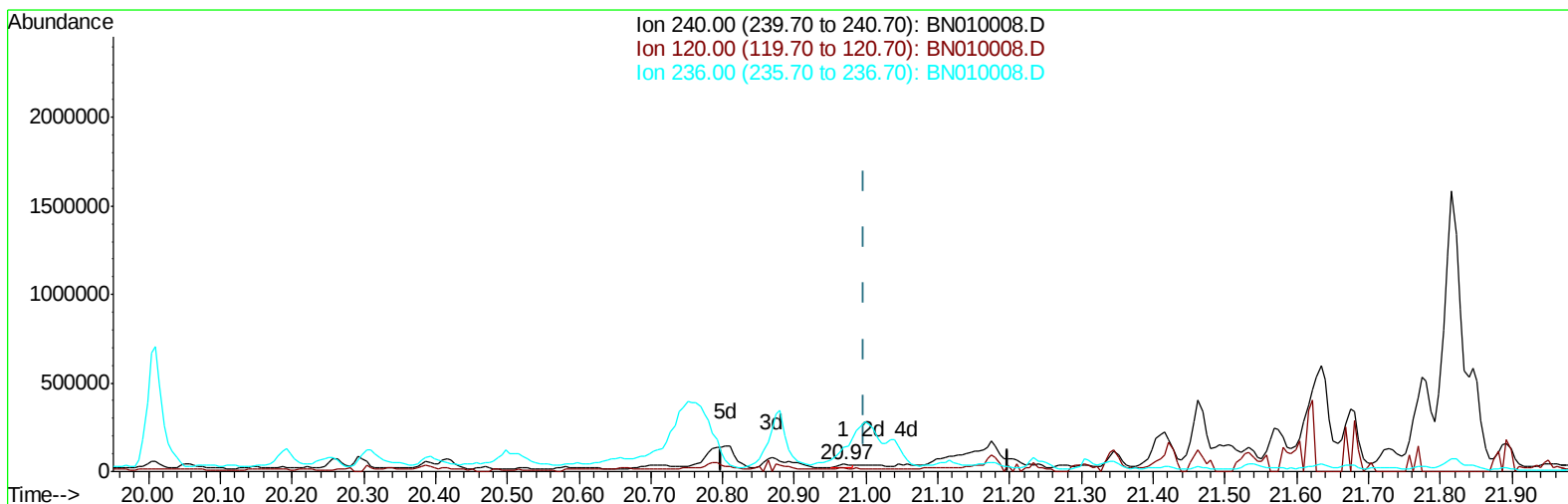
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:59:28 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(78) Chrysene-d12 (I)

20.969min (-0.029) 20.00ng/ul

response 27194

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 240.00 | 100   | 100     |
| 120.00 | 10.30 | 46.41#  |
| 236.00 | 27.00 | 332.76# |
| 0.00   | 0.00  | 0.00    |

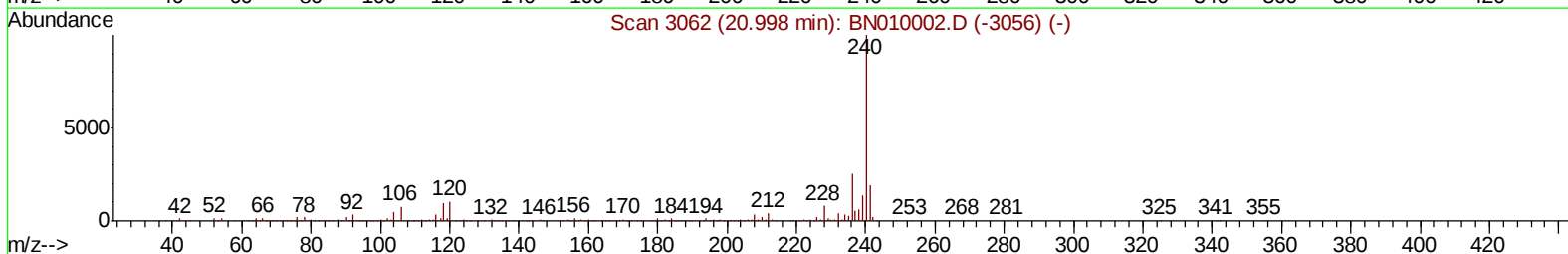
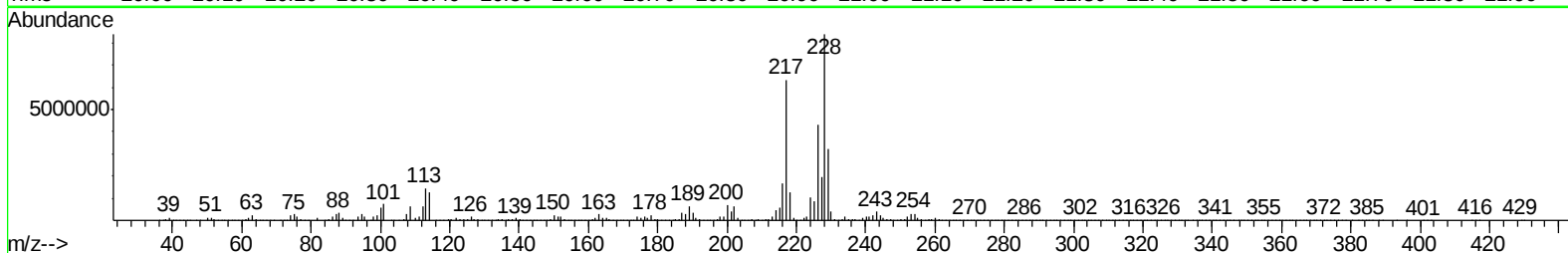
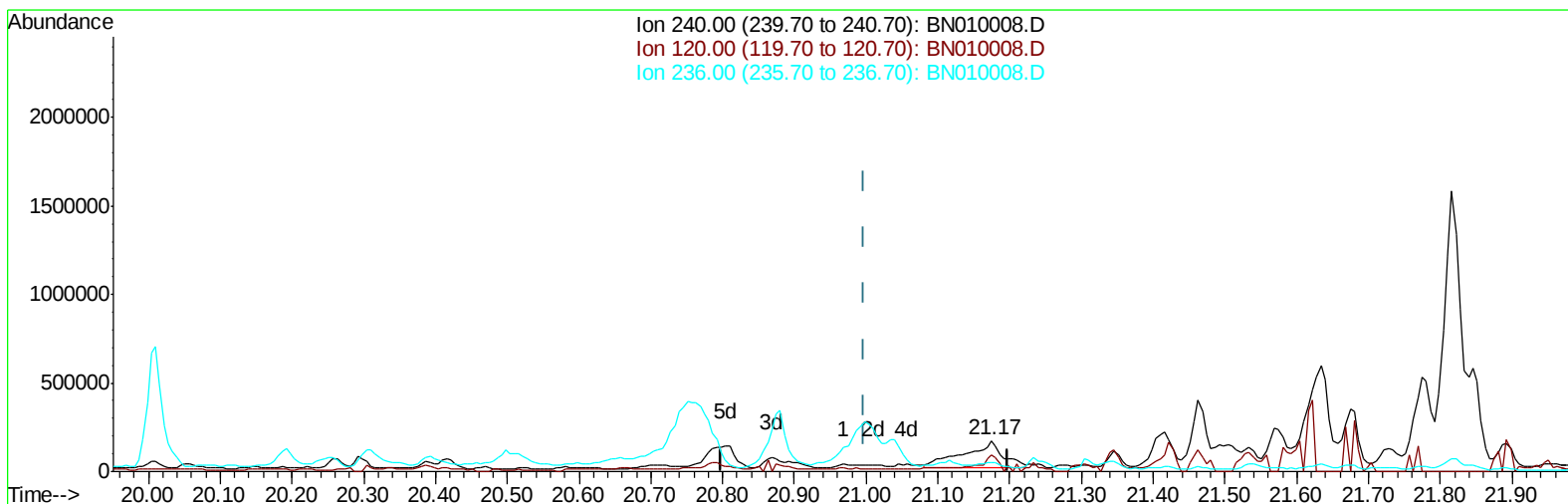
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 11:59:28 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(78) Chrysene-d12 (I)

21.175min (+0.177) 20.00ng/ul m

response 567196

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 240.00 | 100   | 100    |
| 120.00 | 10.30 | 29.15# |
| 236.00 | 27.00 | 30.30  |
| 0.00   | 0.00  | 0.00   |

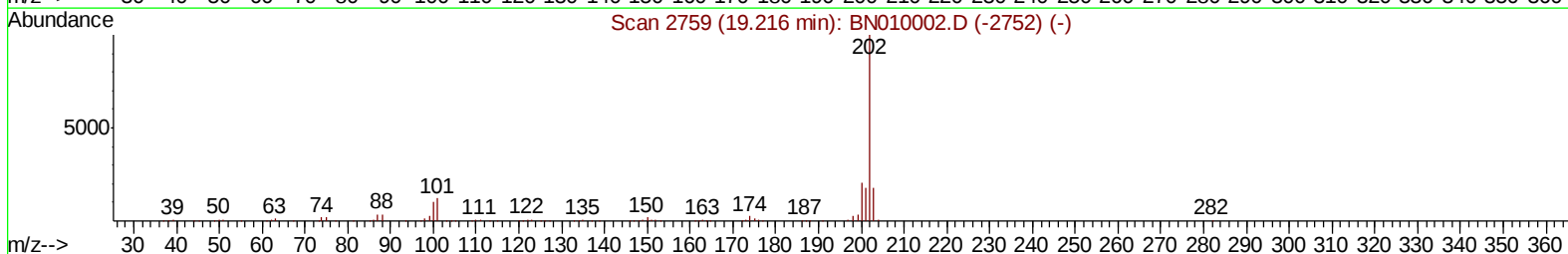
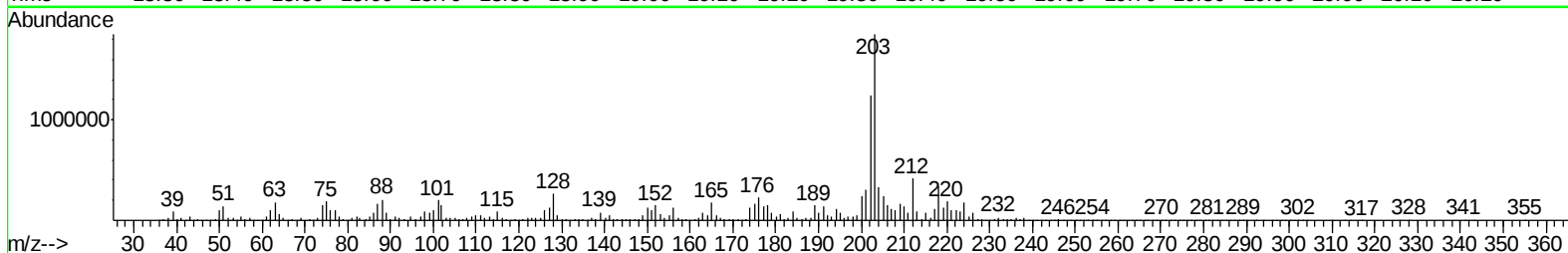
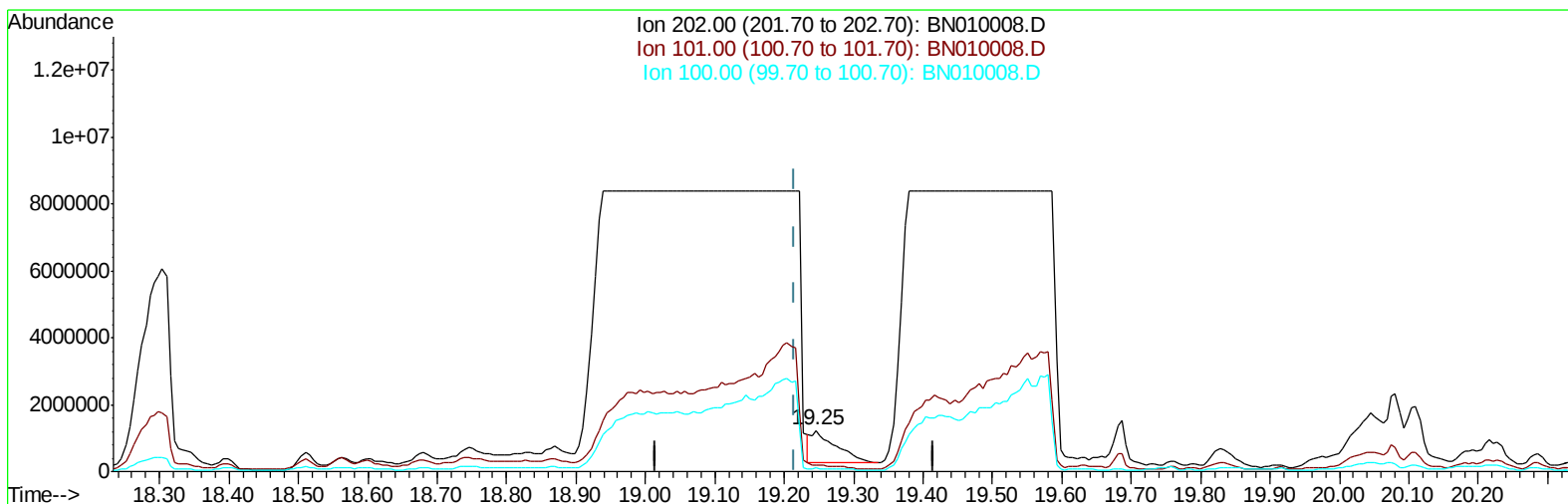
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:06:21 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(80) Pyrene

19.245min (+0.030) 58.67ng/ul

response 2399322

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 14.10 | 16.25 |
| 100.00 | 11.30 | 8.38# |
| 0.00   | 0.00  | 0.00  |

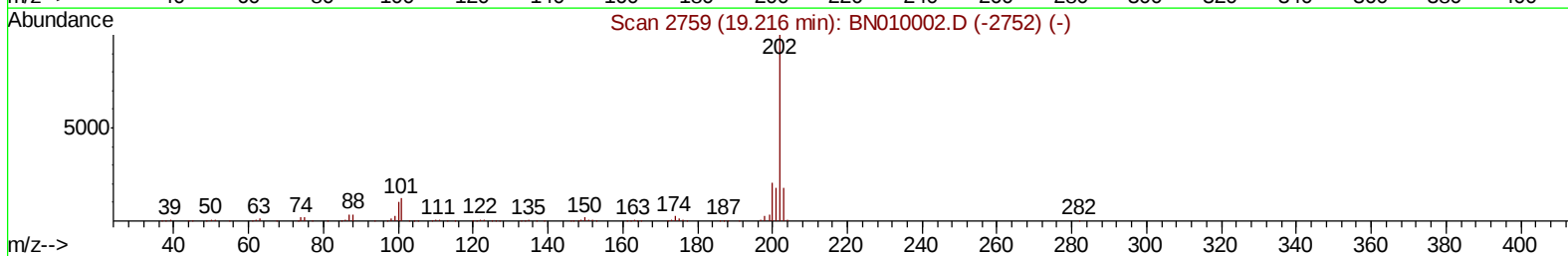
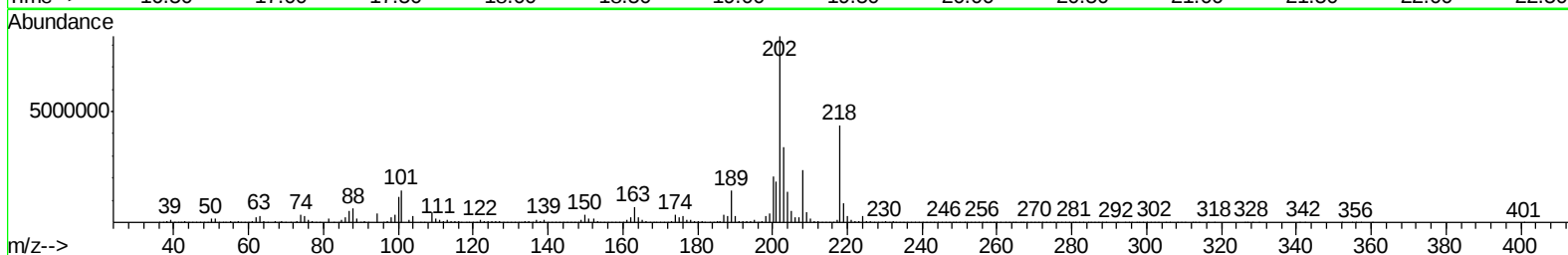
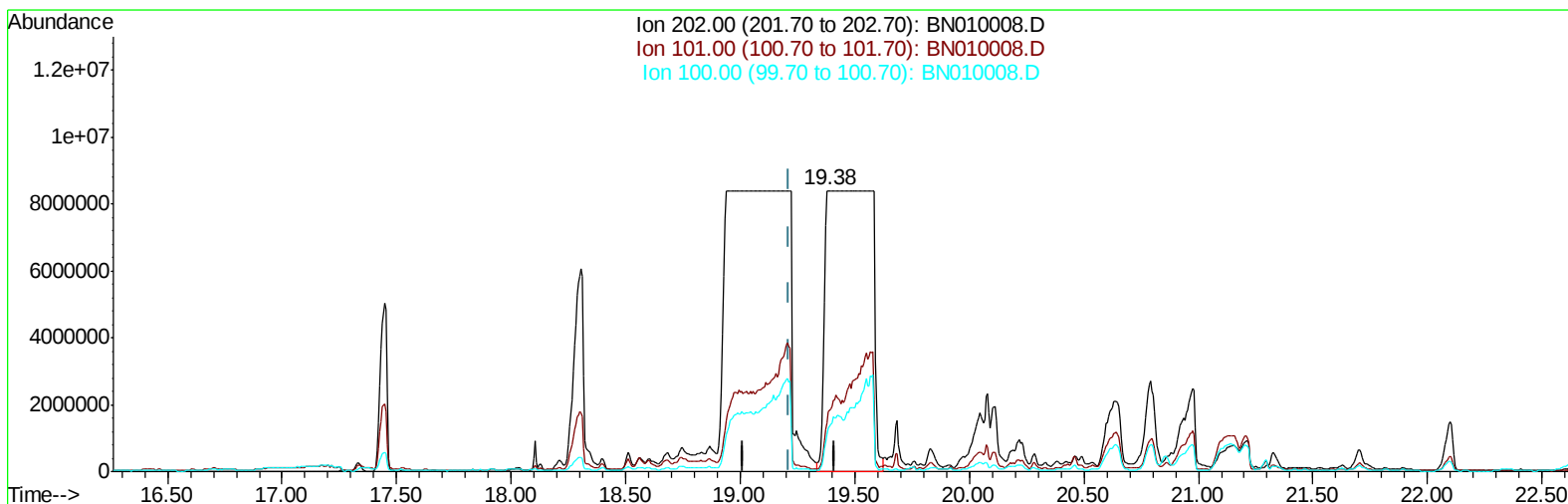
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:06:21 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(80) Pyrene

19.381min (+0.165) 2810.79ng/ul m

response 114939674

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 14.10 | 17.45# |
| 100.00 | 11.30 | 13.41  |
| 0.00   | 0.00  | 0.00   |



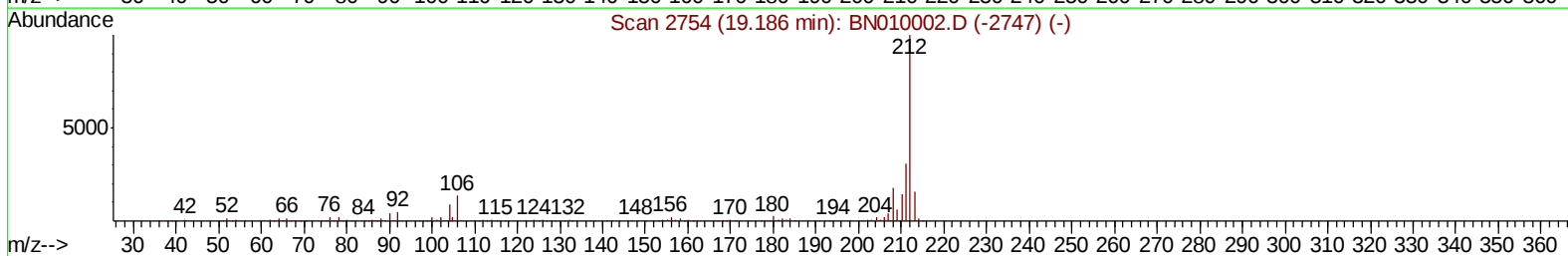
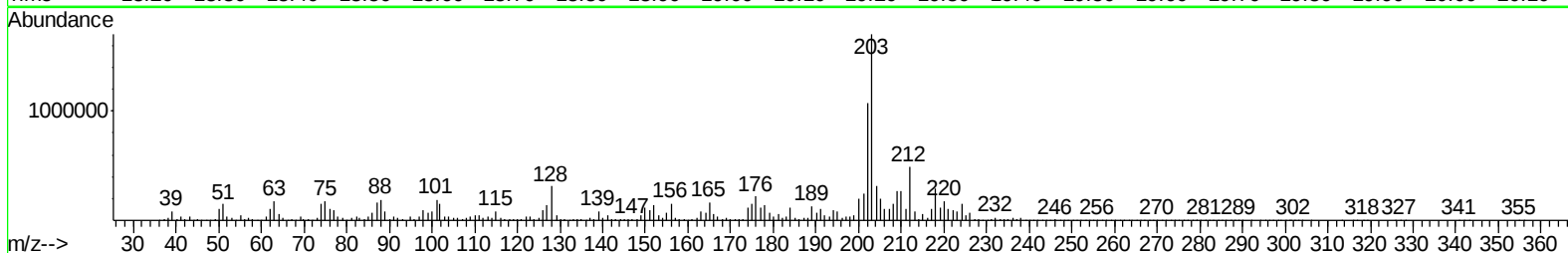
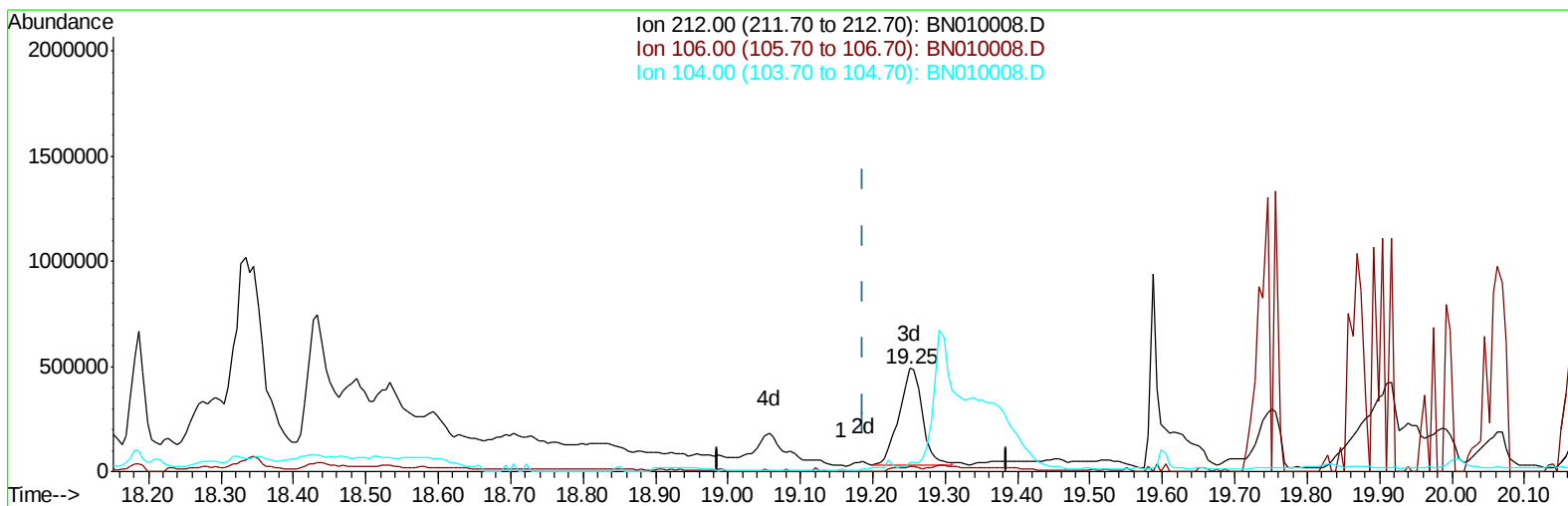
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:09:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(79) Pyrene-d10 (S)

19.251min (+0.065) 34.82ng/ul m

response 1032138

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 212.00 | 100   | 100   |
| 106.00 | 13.80 | 4.74# |
| 104.00 | 9.30  | 8.26  |
| 0.00   | 0.00  | 0.00  |

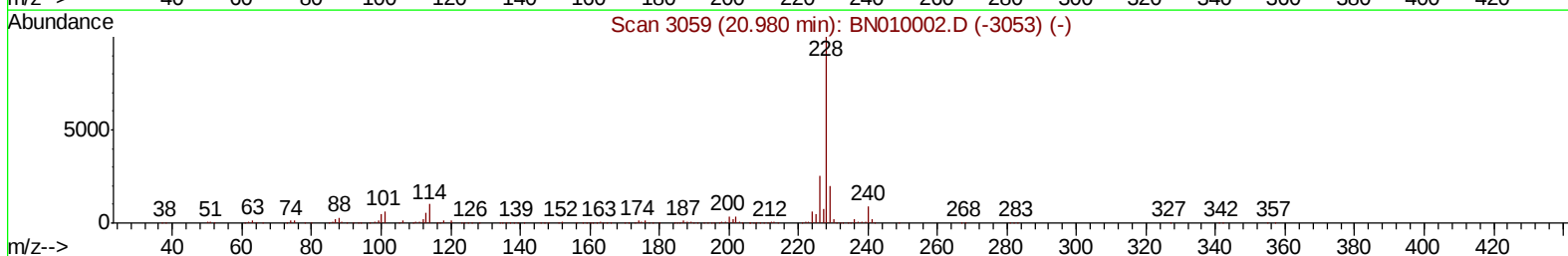
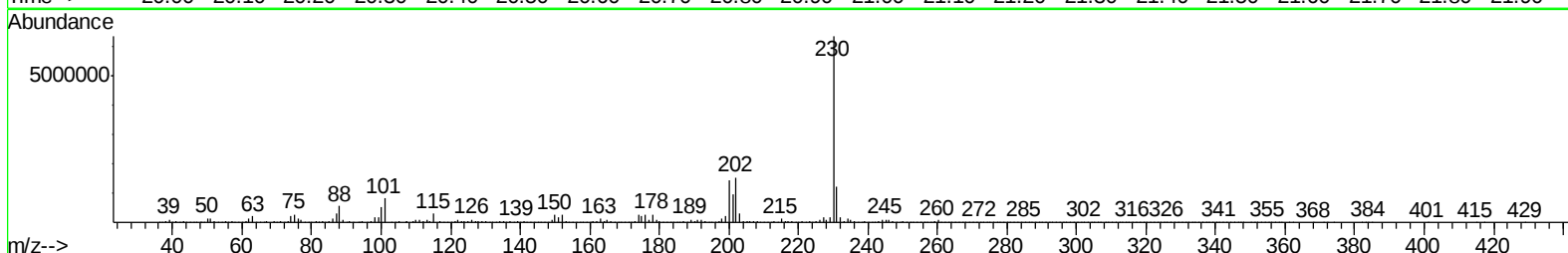
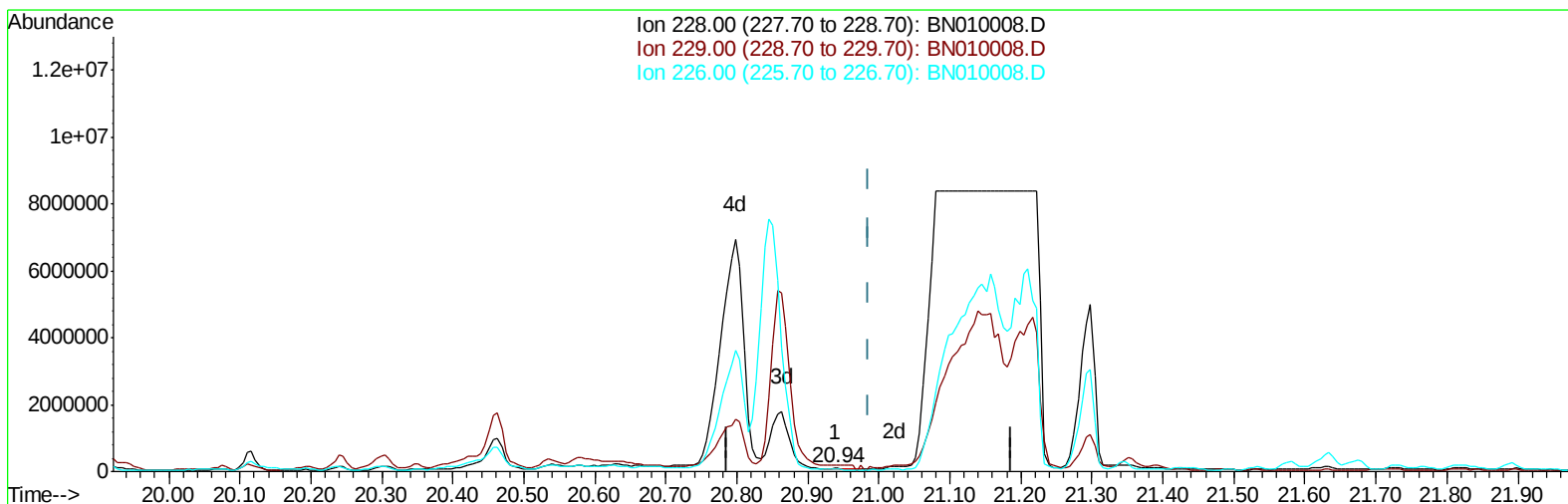
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:09:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(83) Benzo(a)anthracene  
20.939min (-0.047) 1.90ng/ul  
response 74073

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 228.00 | 100   | 100     |
| 229.00 | 18.70 | 184.66# |
| 226.00 | 26.80 | 65.88#  |
| 0.00   | 0.00  | 0.00    |

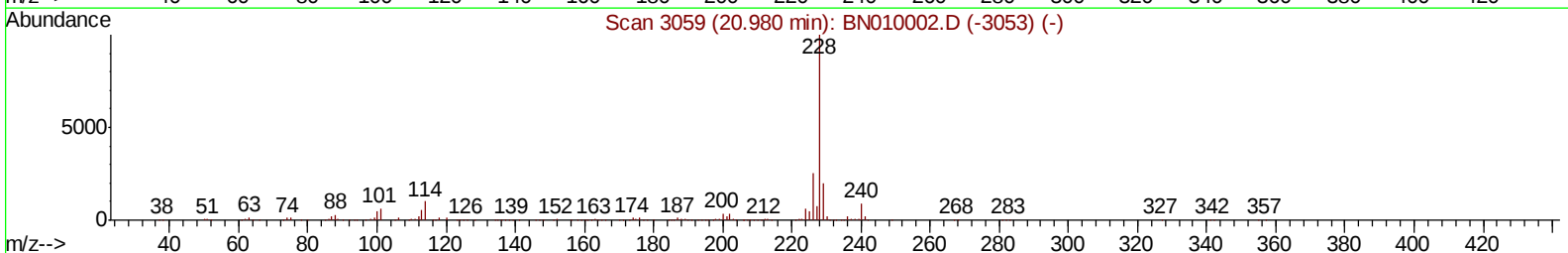
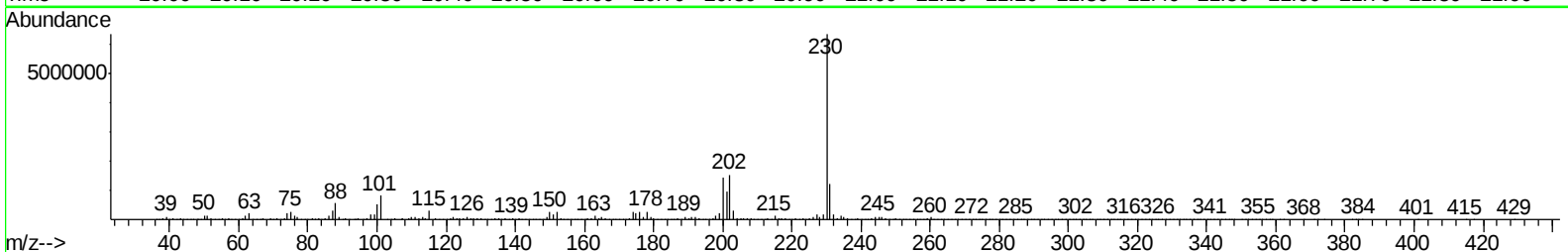
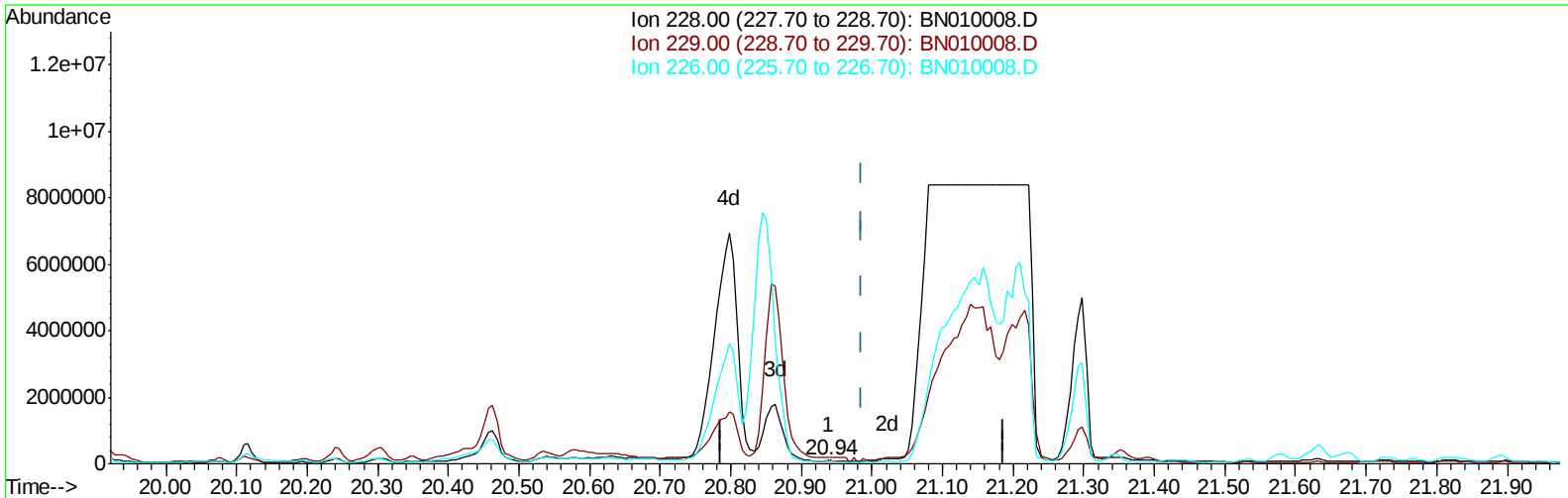
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:09:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(83) Benzo(a)anthracene  
20.939min (-0.047) 1.90ng/ul  
response 74073

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 228.00 | 100   | 100     |
| 229.00 | 18.70 | 184.66# |
| 226.00 | 26.80 | 65.88#  |
| 0.00   | 0.00  | 0.00    |

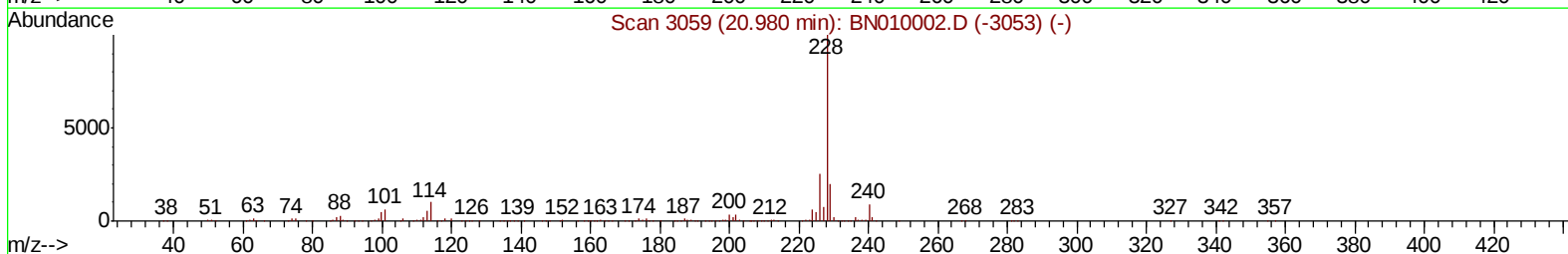
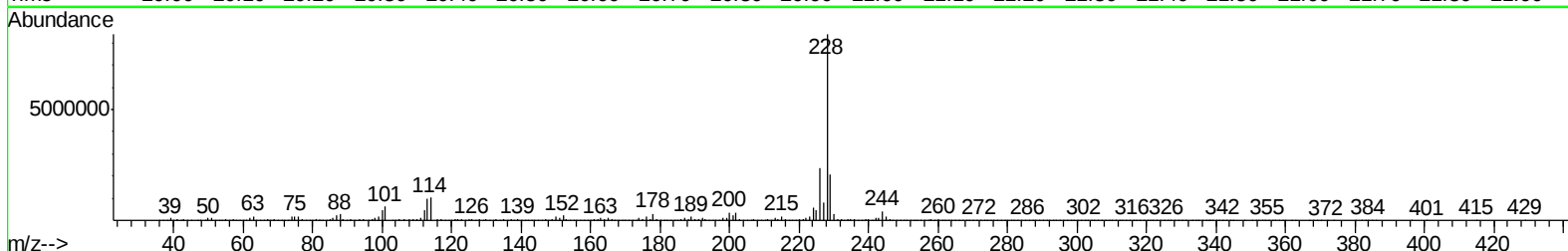
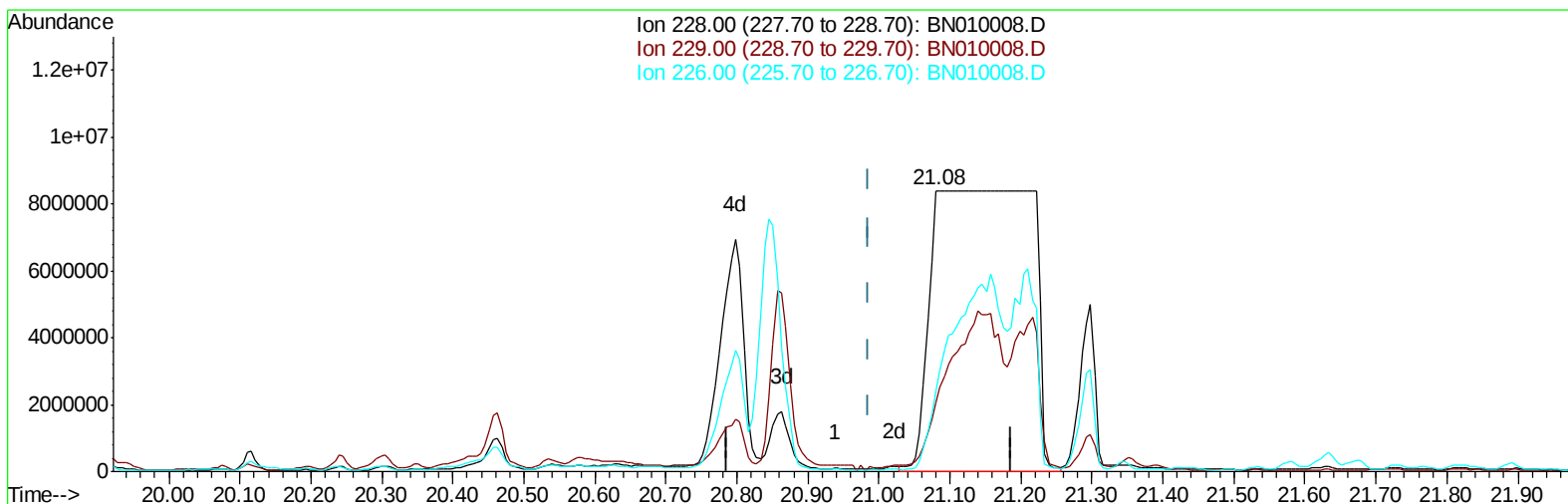
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:09:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(83) Benzo(a)anthracene

21.080min (+0.094) 2095.27ng/ul m

response 81669658

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 229.00 | 18.70 | 24.67# |
| 226.00 | 26.80 | 28.44  |
| 0.00   | 0.00  | 0.00   |

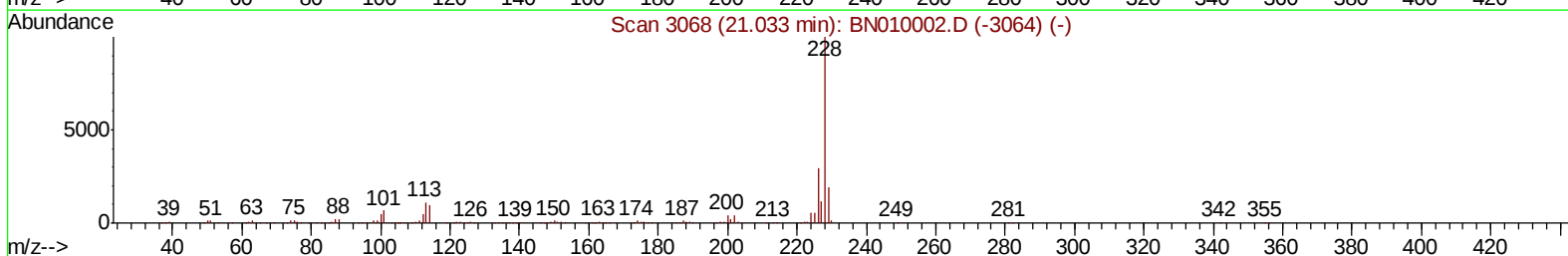
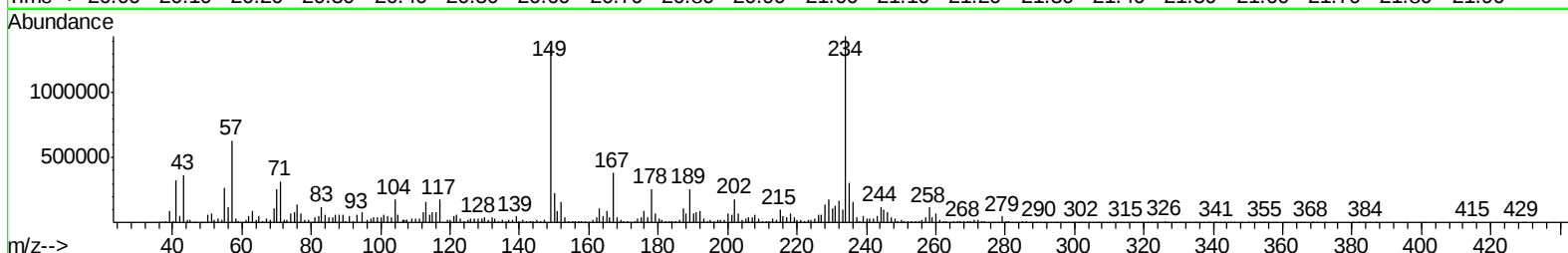
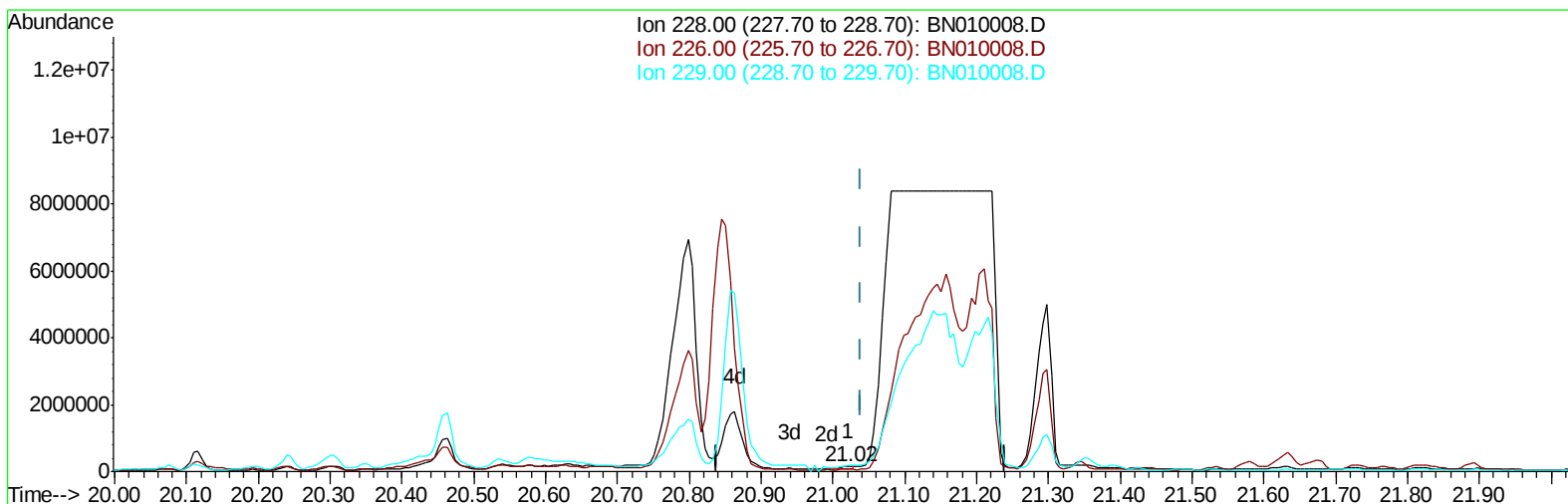
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

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 3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:09:42 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(85) Chrysene

21.022min (-0.018) 2.52ng/ul

response 96536

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 228.00 | 100   | 100     |
| 226.00 | 29.30 | 41.60#  |
| 229.00 | 18.70 | 125.32# |
| 0.00   | 0.00  | 0.00    |

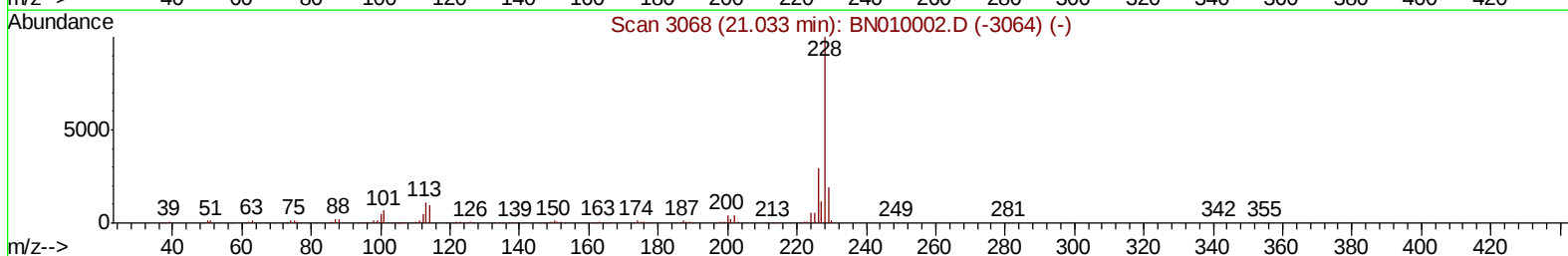
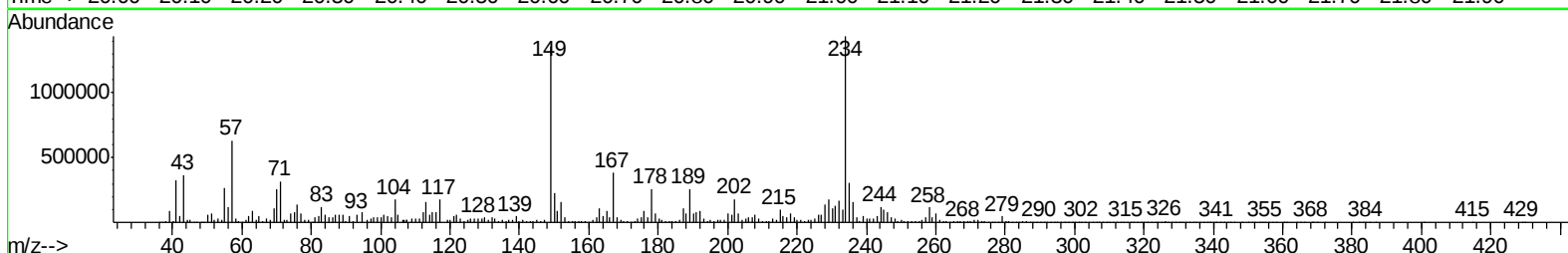
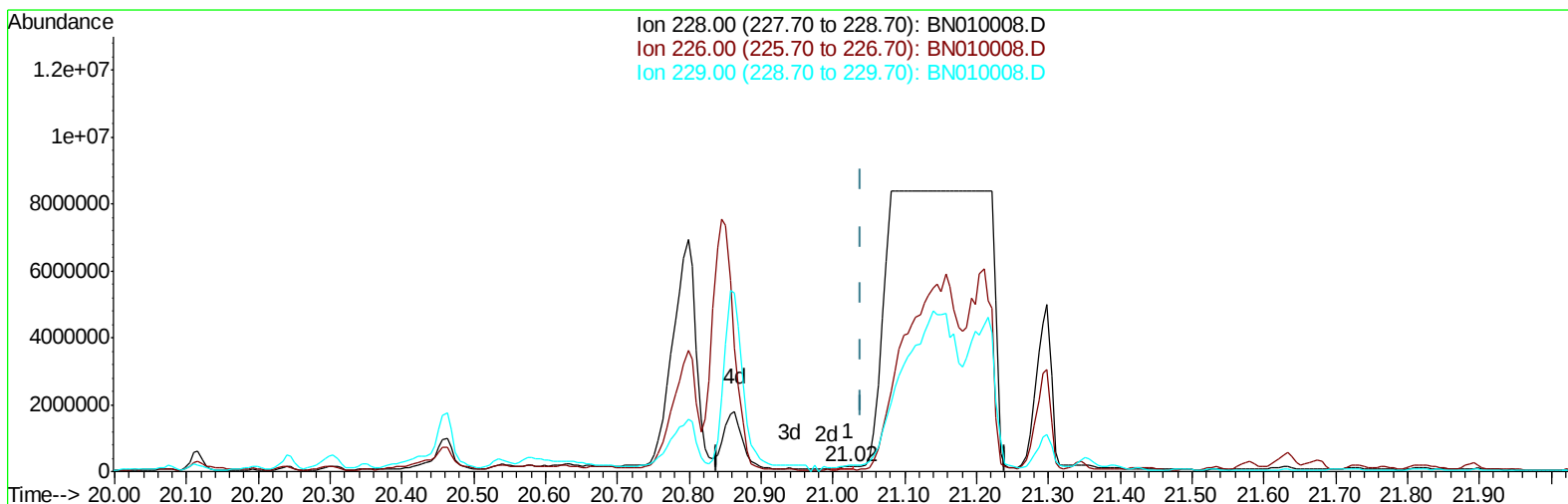
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 12:09:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(85) Chrysene

21.022min (-0.018) 2.52ng/ul

response 96536

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 228.00 | 100   | 100     |
| 226.00 | 29.30 | 41.60#  |
| 229.00 | 18.70 | 125.32# |
| 0.00   | 0.00  | 0.00    |

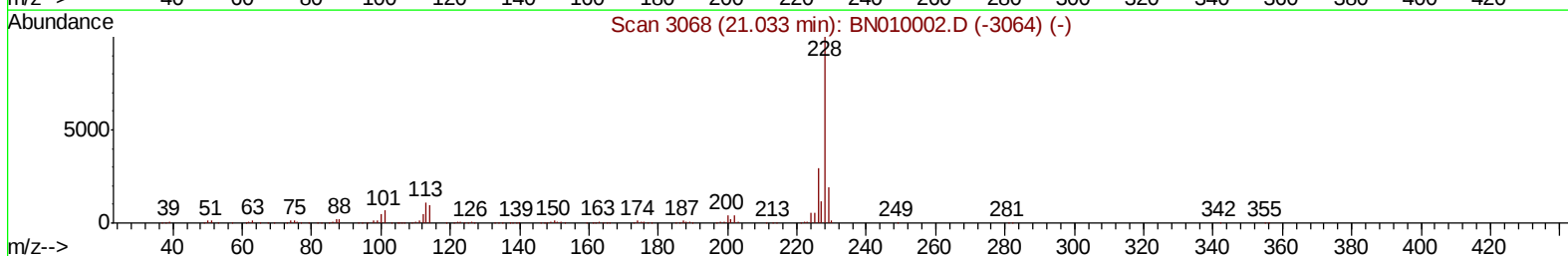
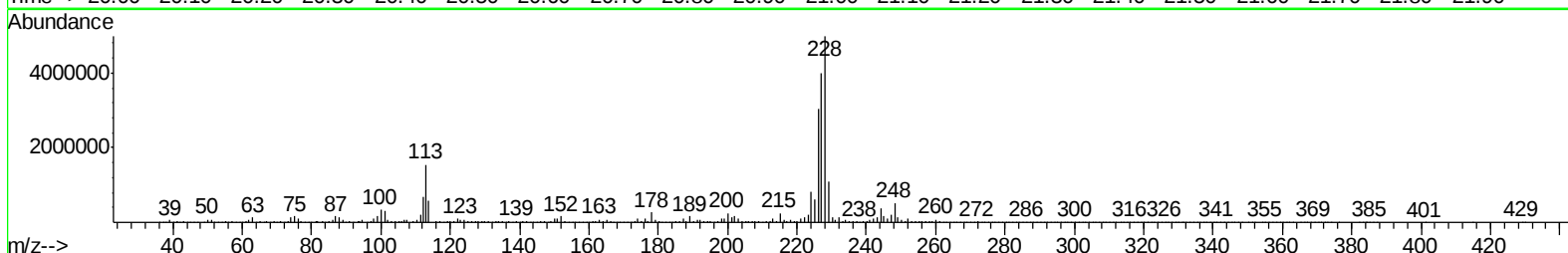
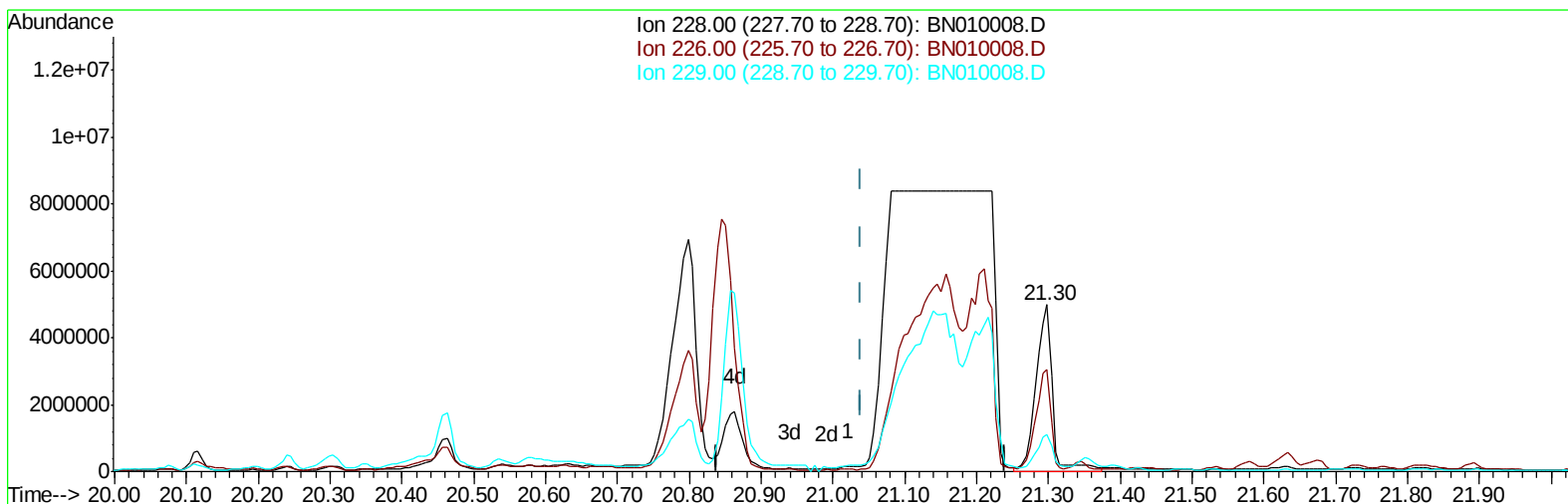
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 12:09:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(85) Chrysene

21.298min (+0.259) 205.73ng/ul m

response 7894474

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 226.00 | 29.30 | 61.32# |
| 229.00 | 18.70 | 22.04  |
| 0.00   | 0.00  | 0.00   |

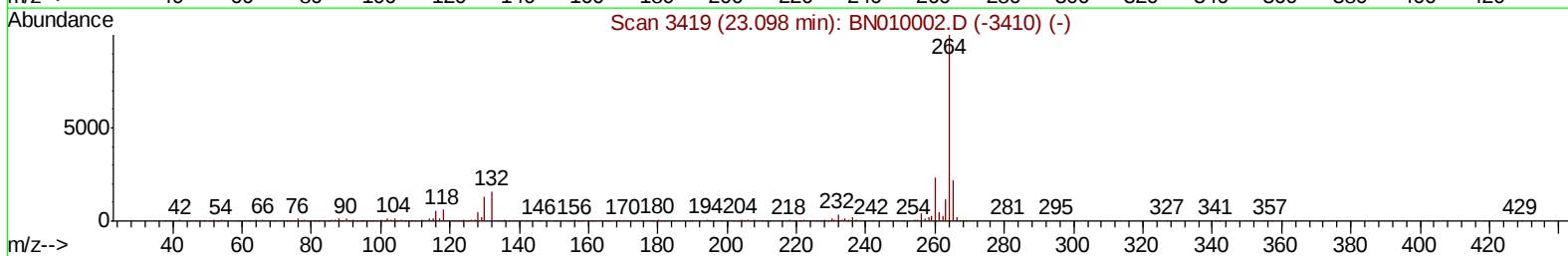
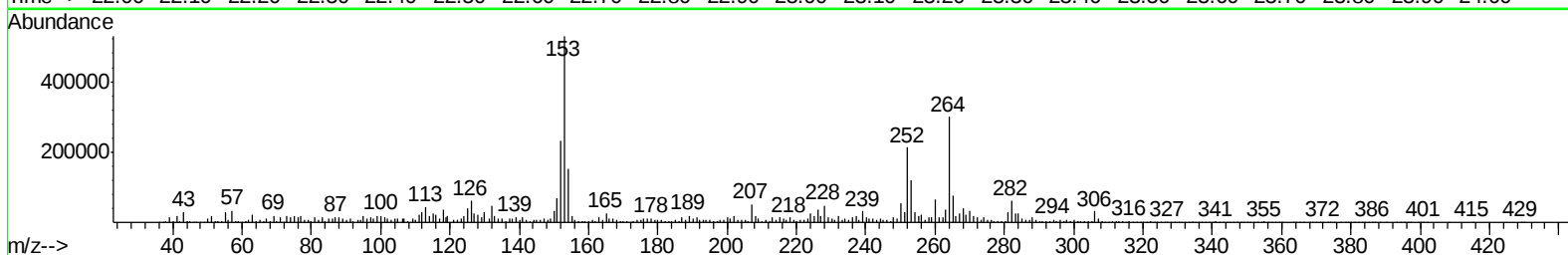
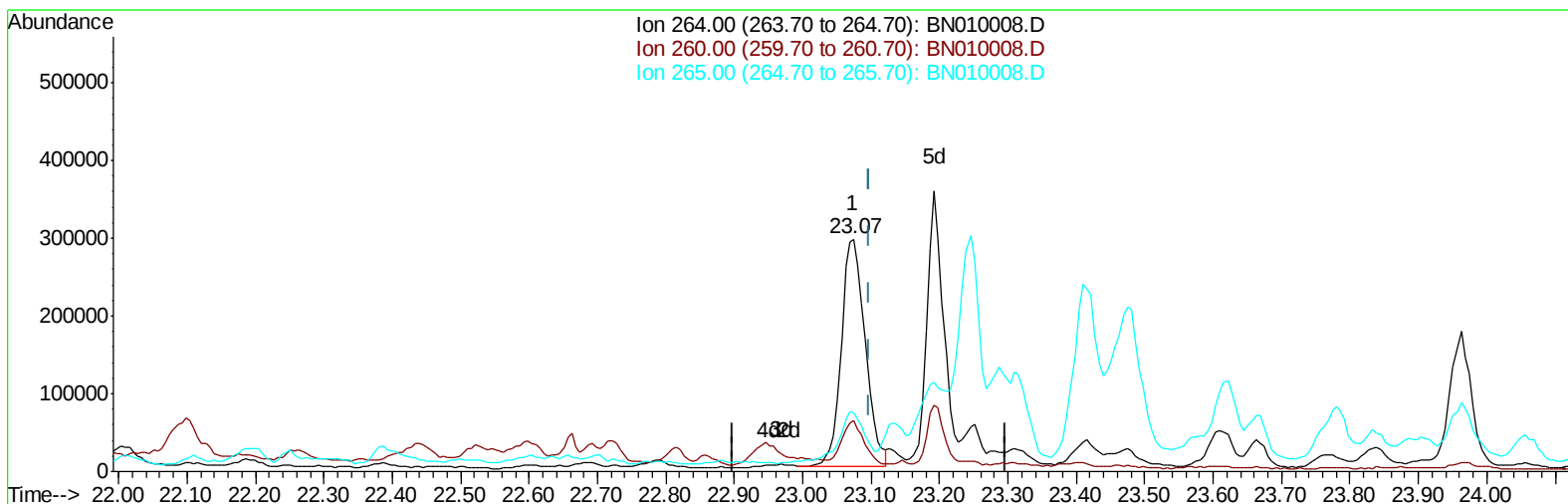
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 12:09:42 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(86) Perylene-d12 (I)

23.074min (-0.023) 20.00ng/ul

response 720257

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 264.00 | 100   | 100   |
| 260.00 | 22.50 | 22.01 |
| 265.00 | 23.40 | 25.04 |
| 0.00   | 0.00  | 0.00  |

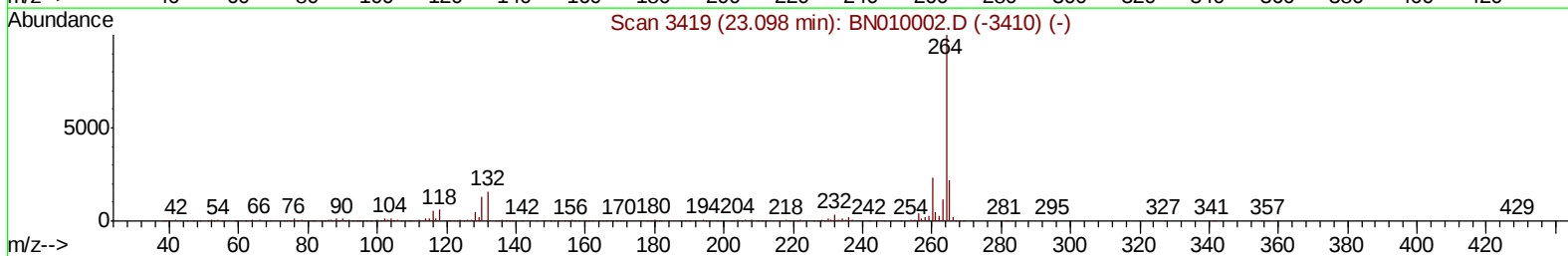
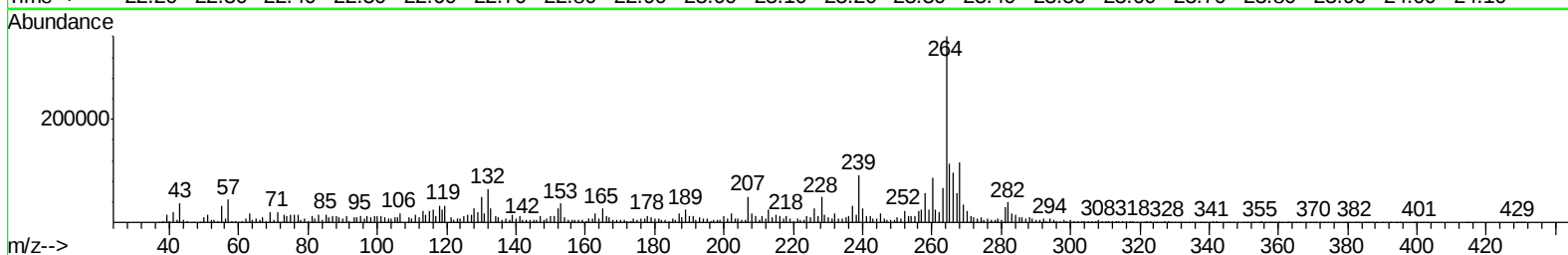
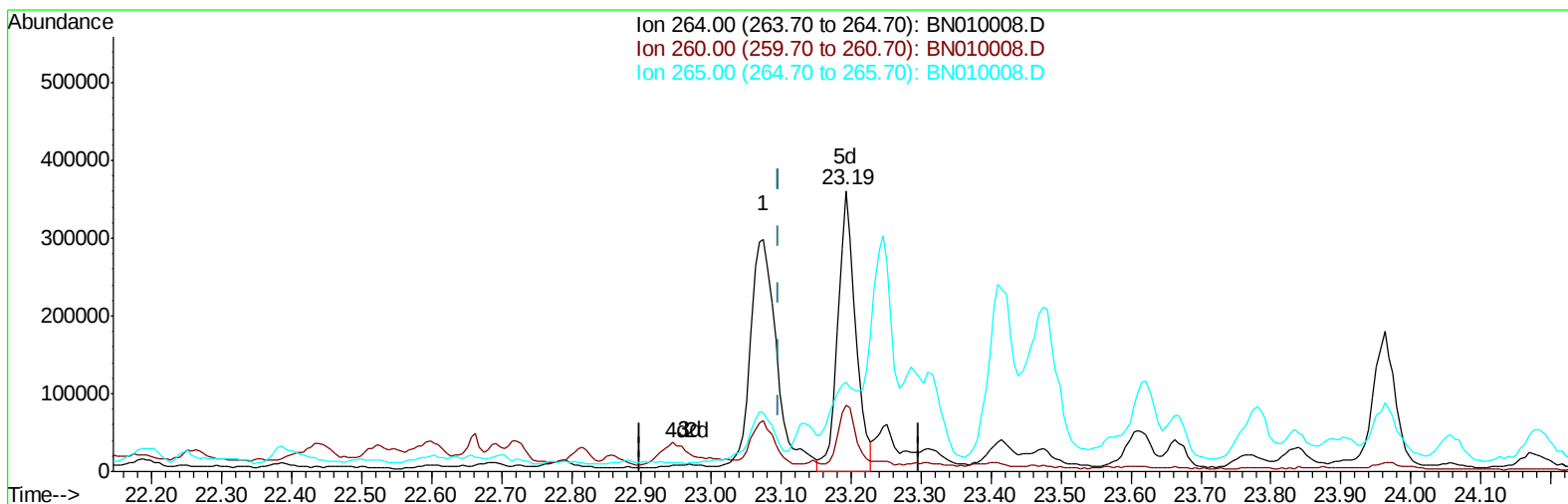
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleID :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:04:57 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(86) Perylene-d12 (I)

23.192min (+0.094) 20.00ng/ul m

response 642494

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 264.00 | 100   | 100    |
| 260.00 | 22.50 | 23.79  |
| 265.00 | 23.40 | 31.89# |
| 0.00   | 0.00  | 0.00   |

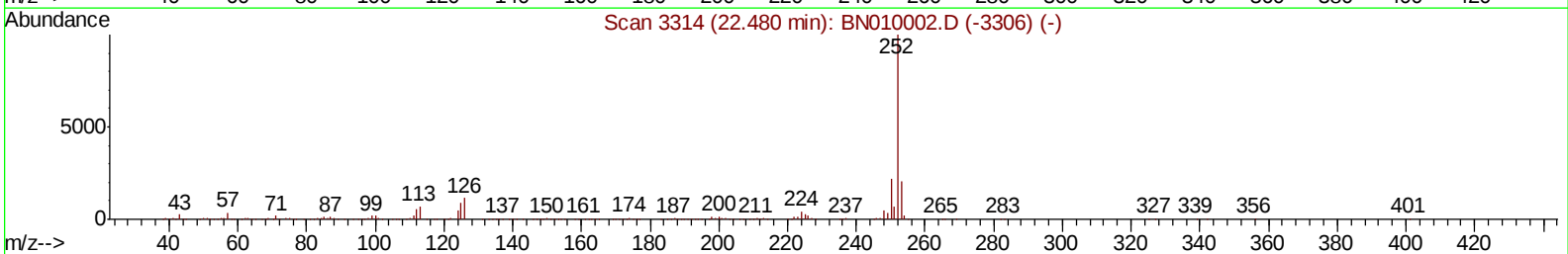
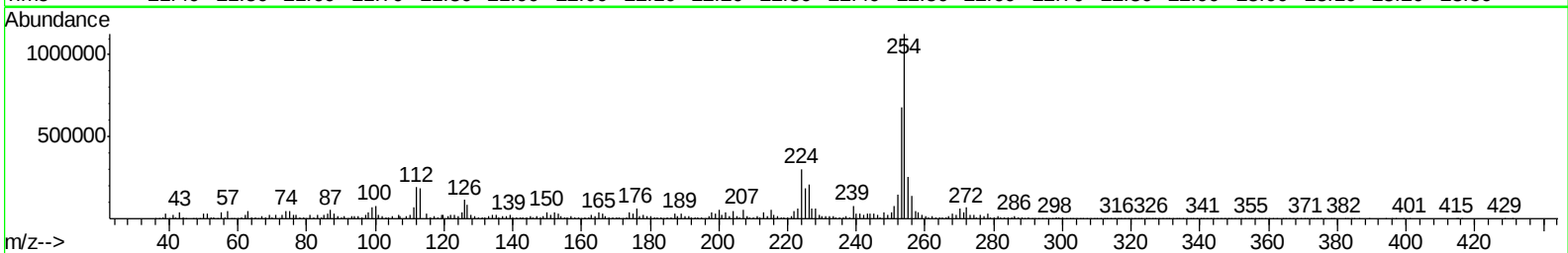
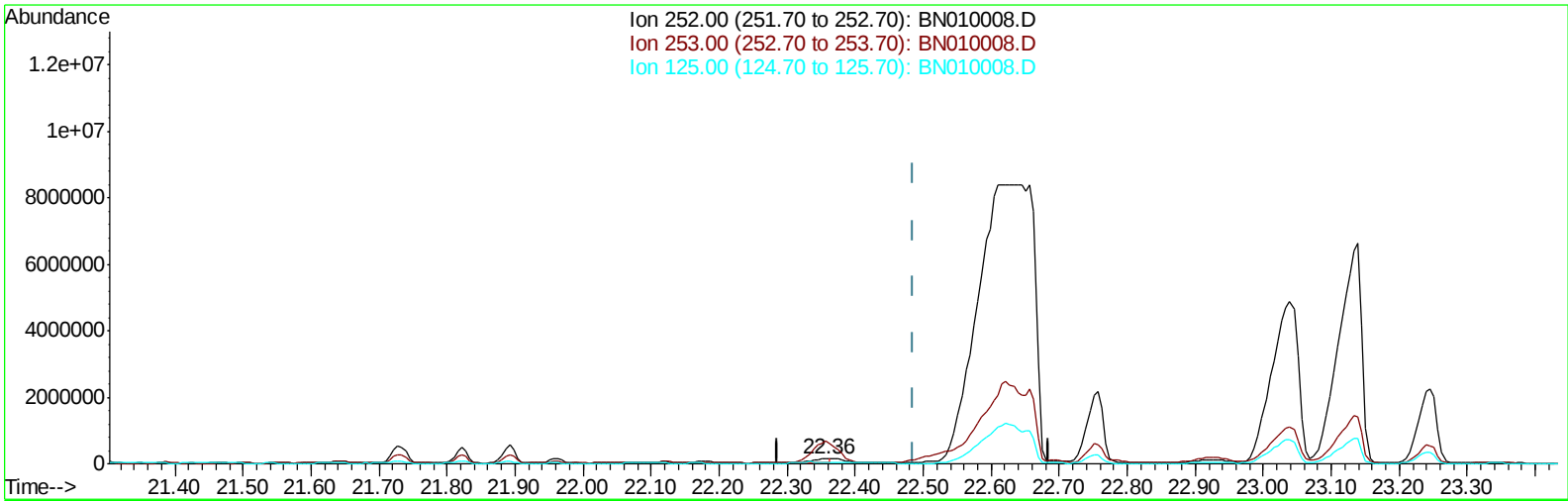
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:04:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(88) Benzo(b)fluoranthene  
22.357min (-0.129) 5.42ng/ul  
response 225692

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 21.20 | 471.02# |
| 125.00 | 10.00 | 25.24#  |
| 0.00   | 0.00  | 0.00    |

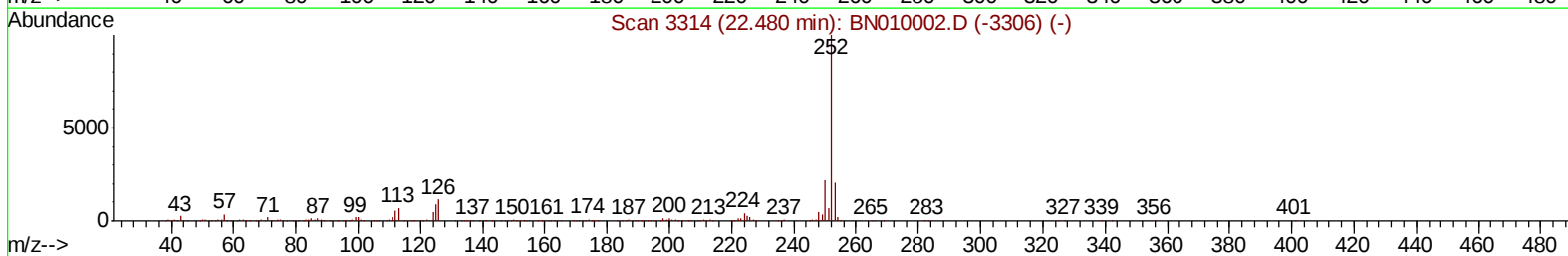
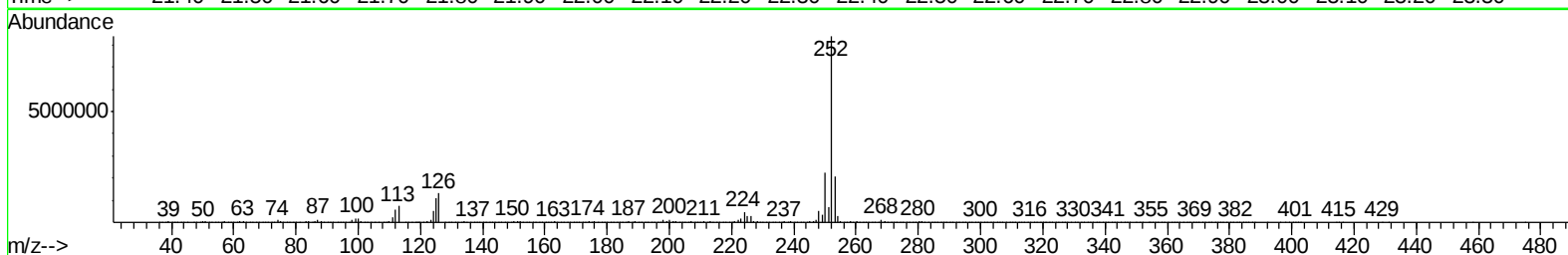
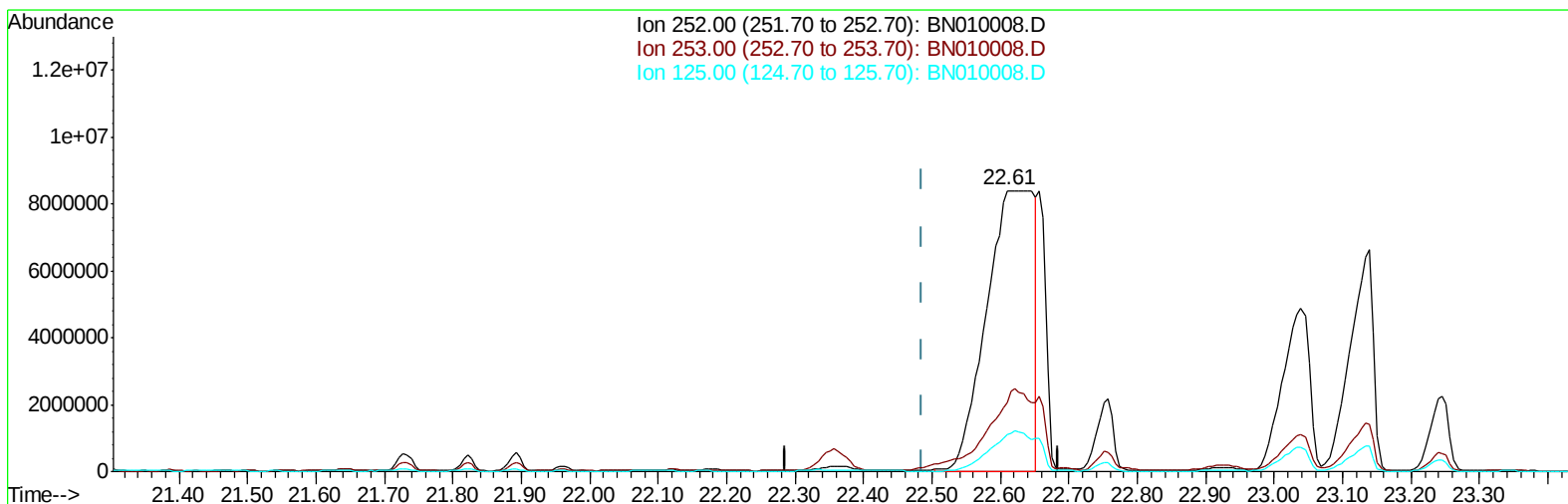
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:04:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(88) Benzo(b)fluoranthene

22.610min (+0.124) 975.35ng/ul m

response 40629864

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.20 | 24.49  |
| 125.00 | 10.00 | 13.34# |
| 0.00   | 0.00  | 0.00   |

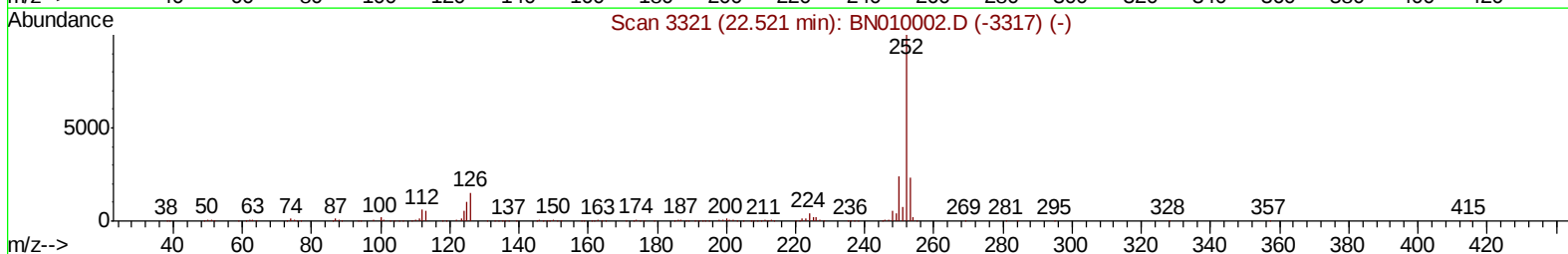
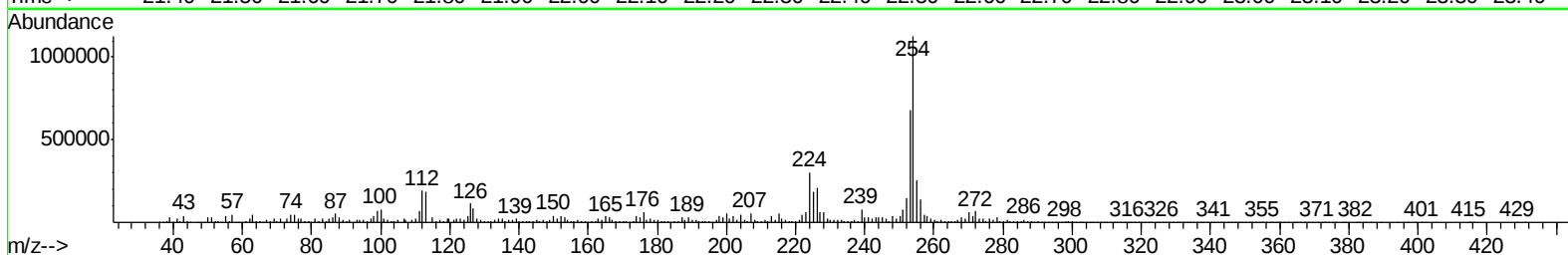
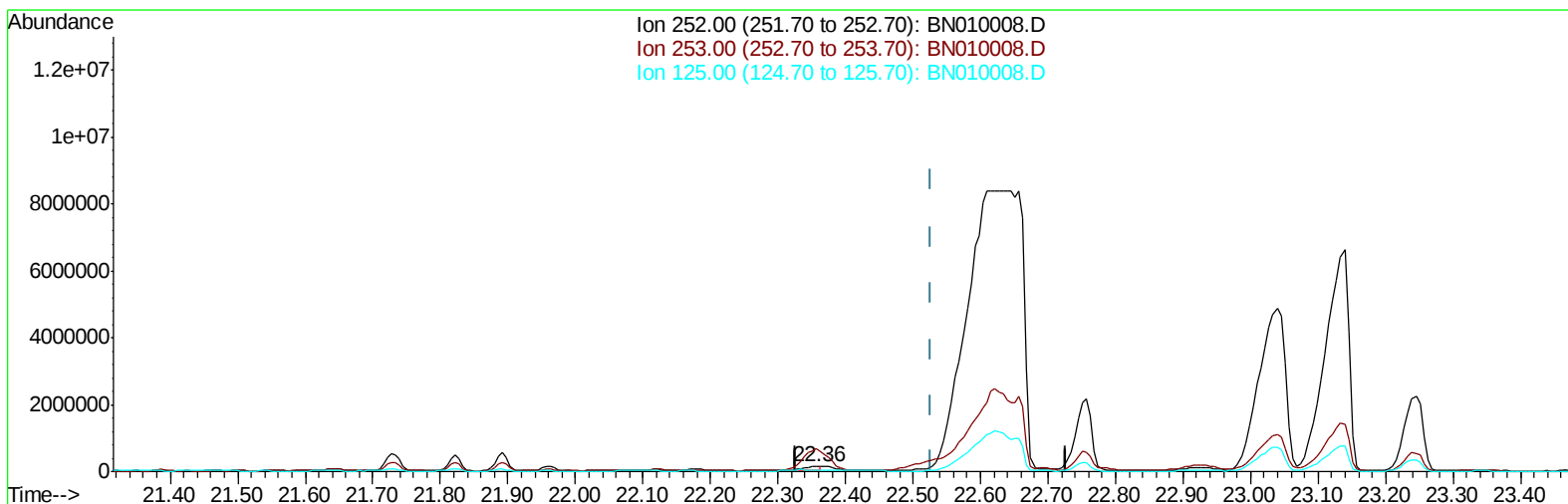
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:04:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(89) Benzo(k)fluoranthene  
22.357min (-0.170) 4.85ng/ul  
response 191270

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 22.50 | 471.02# |
| 125.00 | 10.20 | 25.24#  |
| 0.00   | 0.00  | 0.00    |

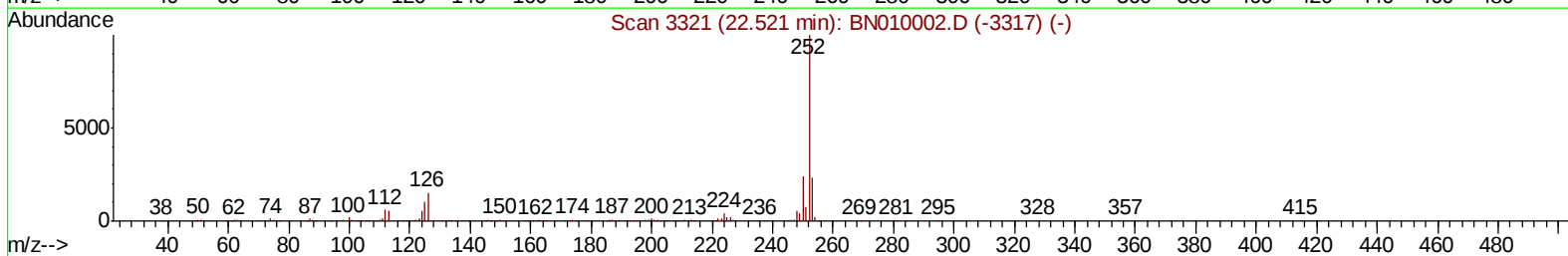
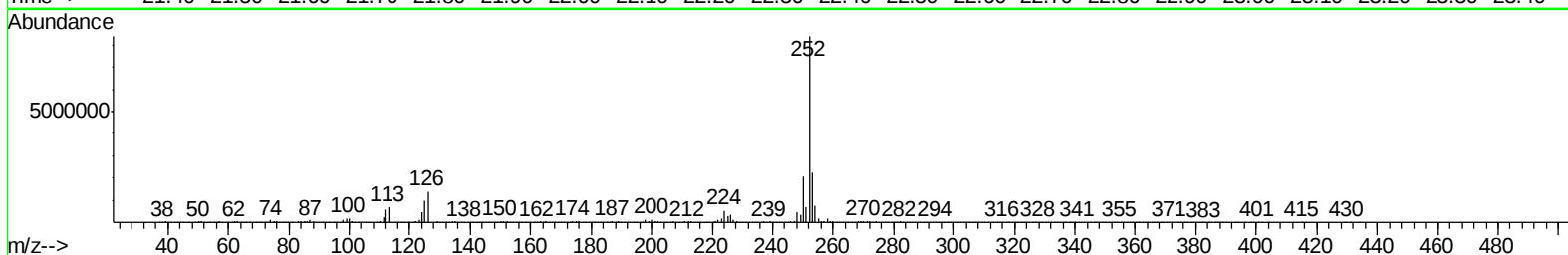
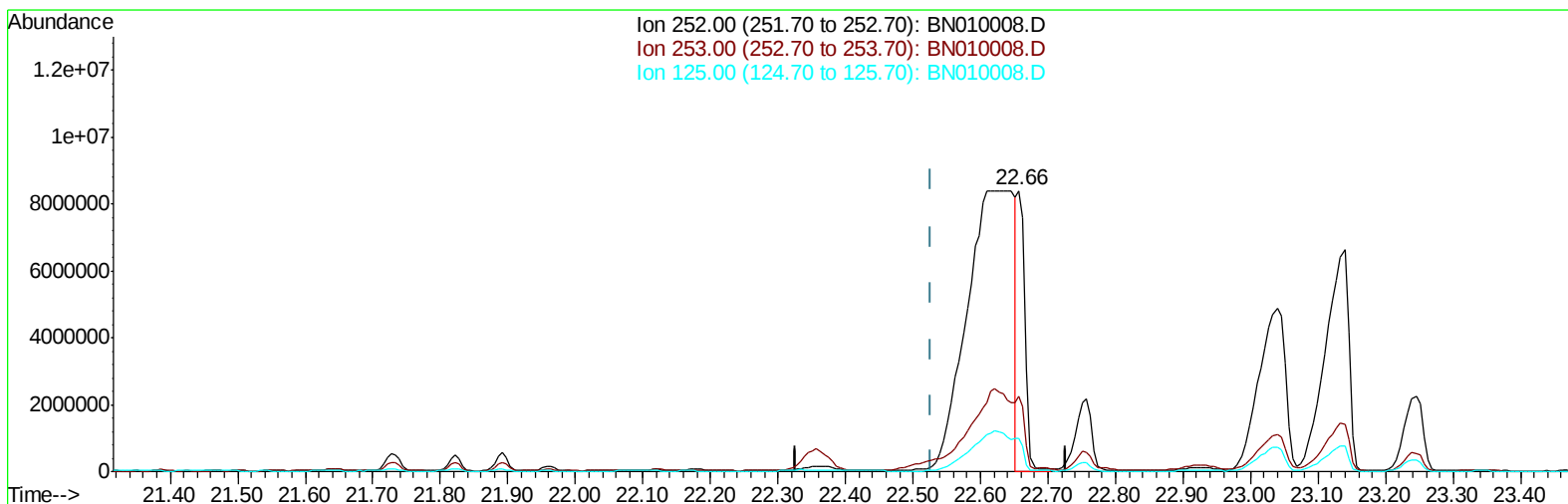
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampled :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:04:57 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(89) Benzo(k)fluoranthene

22.657min (+0.130) 177.65ng/ul m

response 7007347

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.50 | 26.66 |
| 125.00 | 10.20 | 11.92 |
| 0.00   | 0.00  | 0.00  |

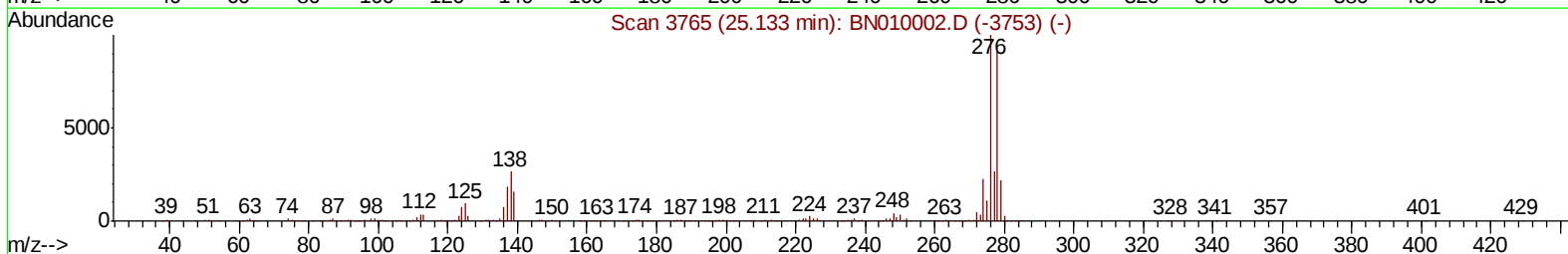
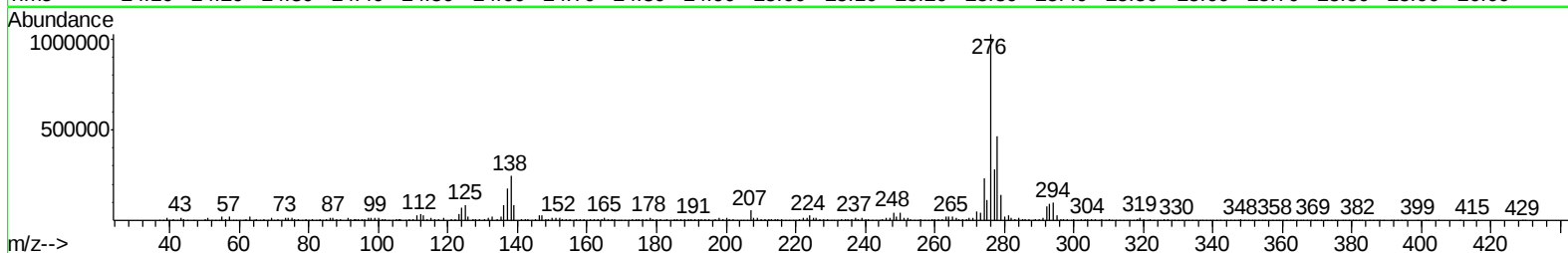
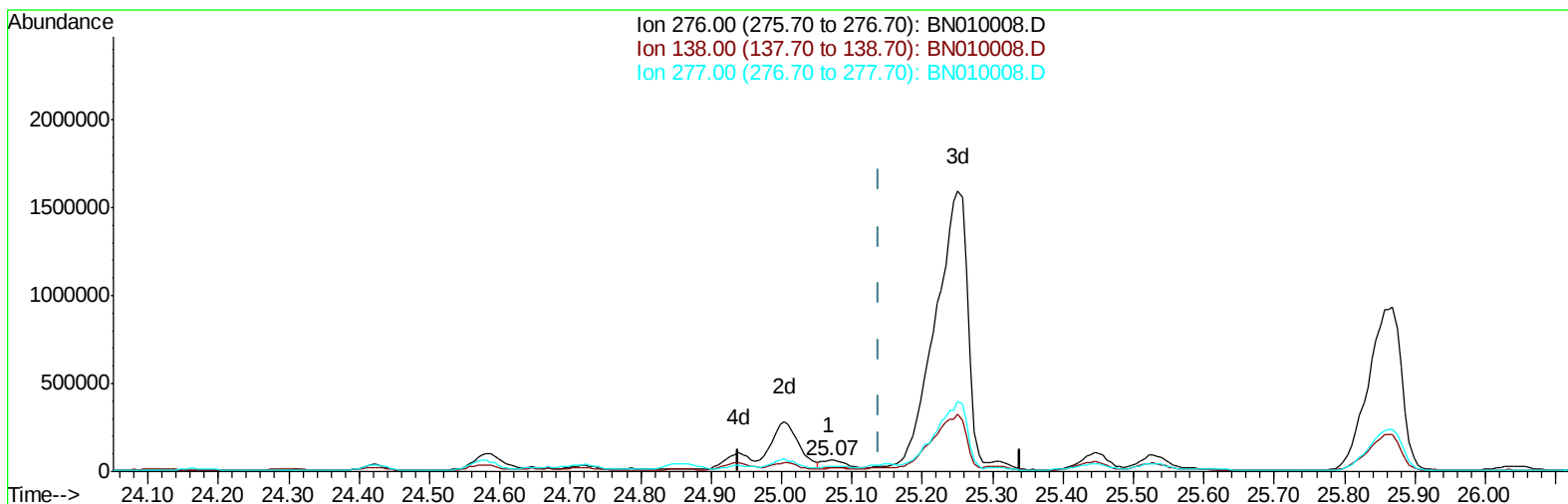
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:04:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration



TIC: BN010008.D

(92) Indeno(1,2,3-cd)pyrene

25.068min (-0.070) 1.88ng/ul

response 83757

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 26.10 | 32.02# |
| 277.00 | 22.80 | 44.39# |
| 0.00   | 0.00  | 0.00   |

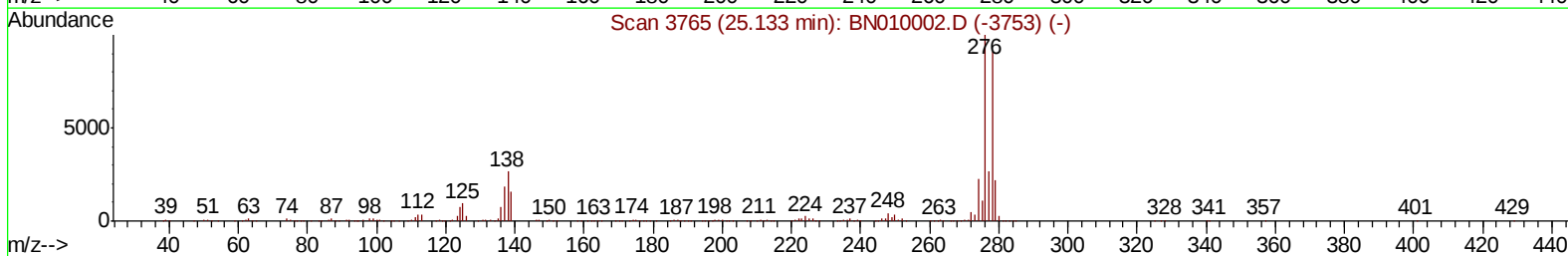
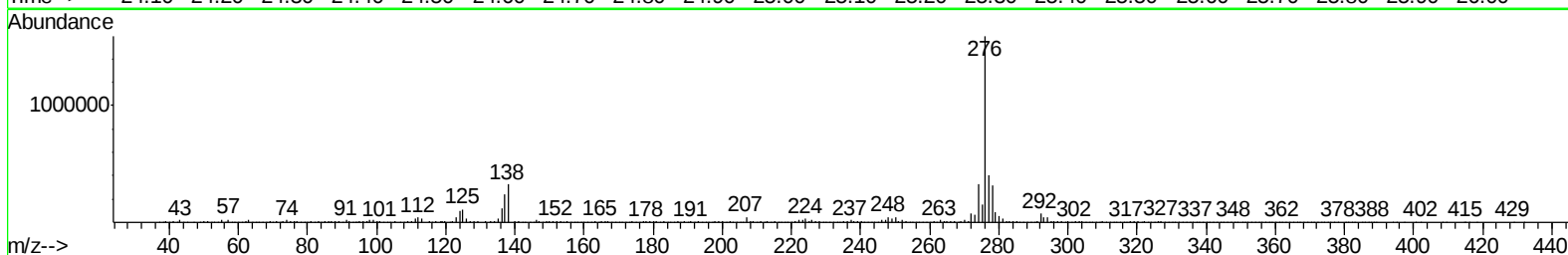
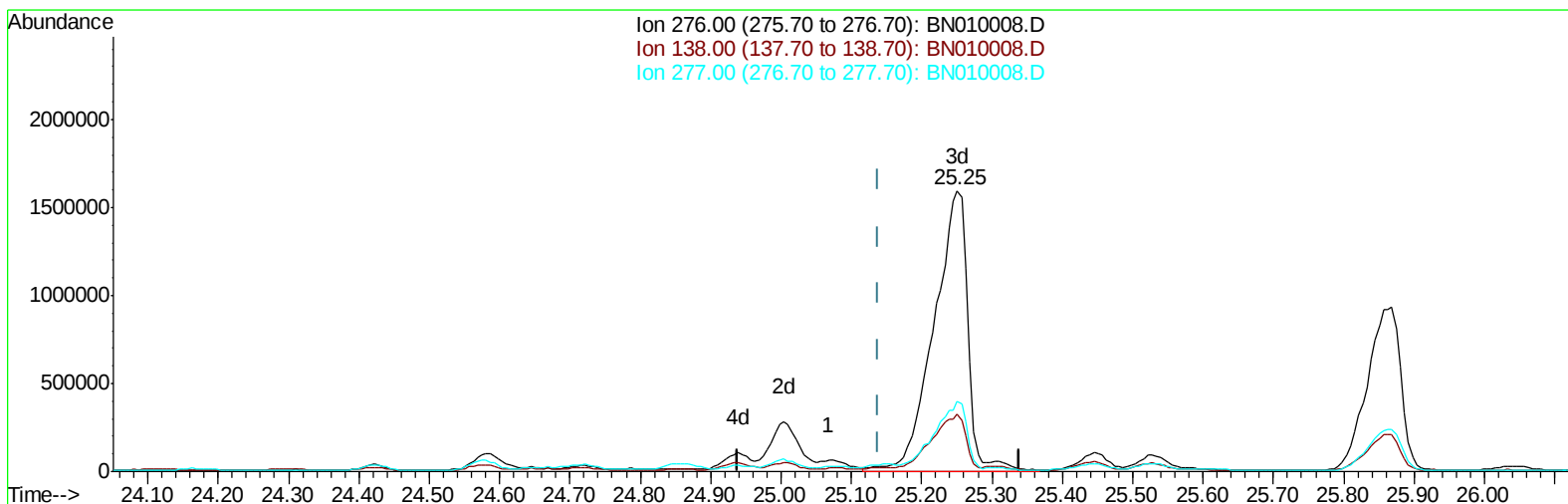
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:04:57 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration



TIC: BN010008.D

(92) Indeno(1,2,3-cd)pyrene

25.251min (+0.112) 120.91ng/ul m

response 5378265

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 26.10 | 20.56# |
| 277.00 | 22.80 | 25.10  |
| 0.00   | 0.00  | 0.00   |

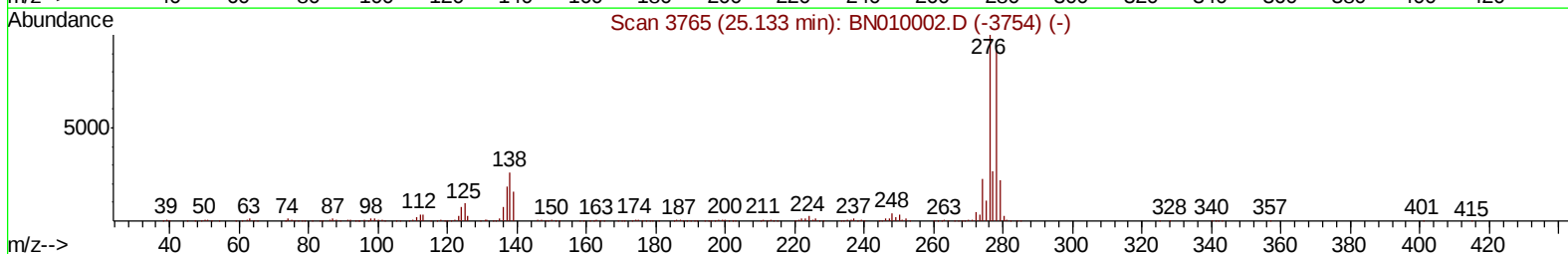
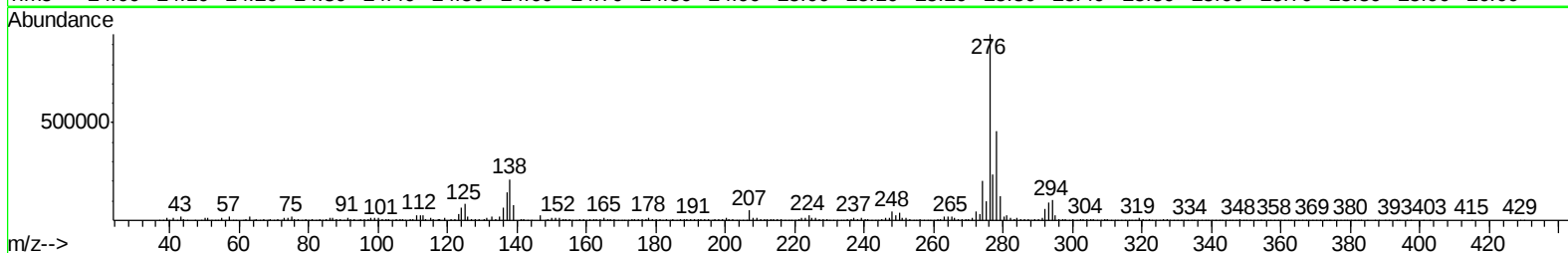
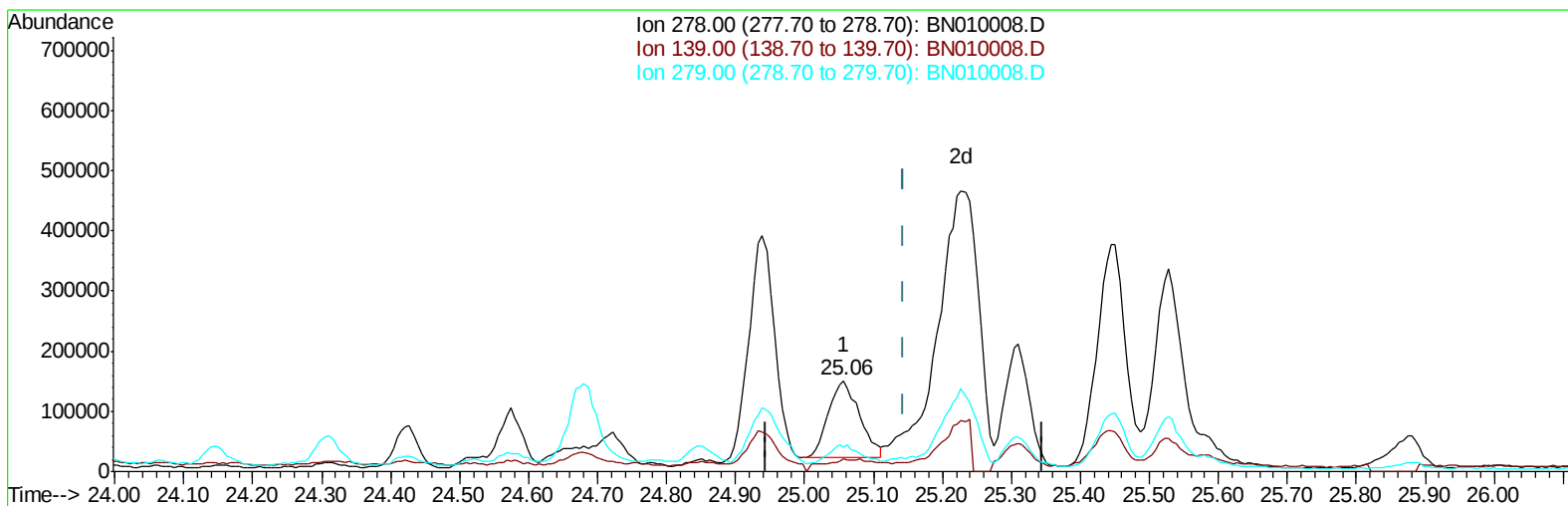
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 13:04:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(93) Dibenzo(a,h)anthracene

25.057min (-0.088) 10.61ng/ul

response 403854

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 16.20 | 13.59  |
| 279.00 | 21.90 | 26.44# |
| 0.00   | 0.00  | 0.00   |

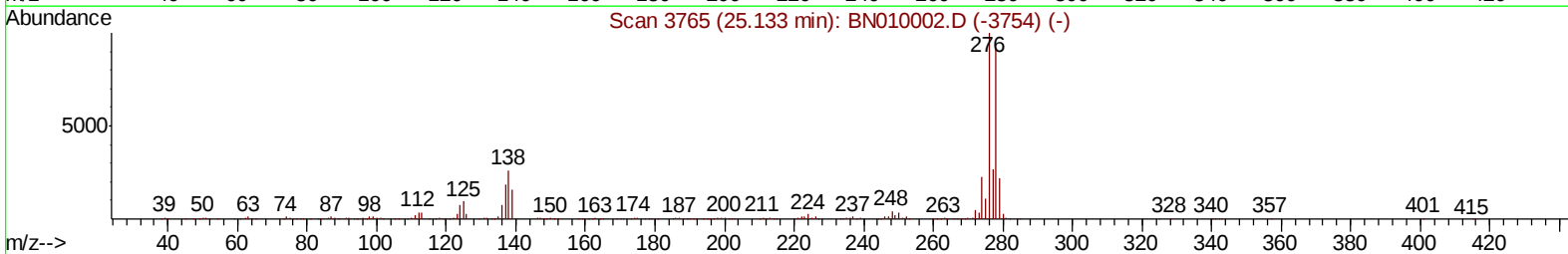
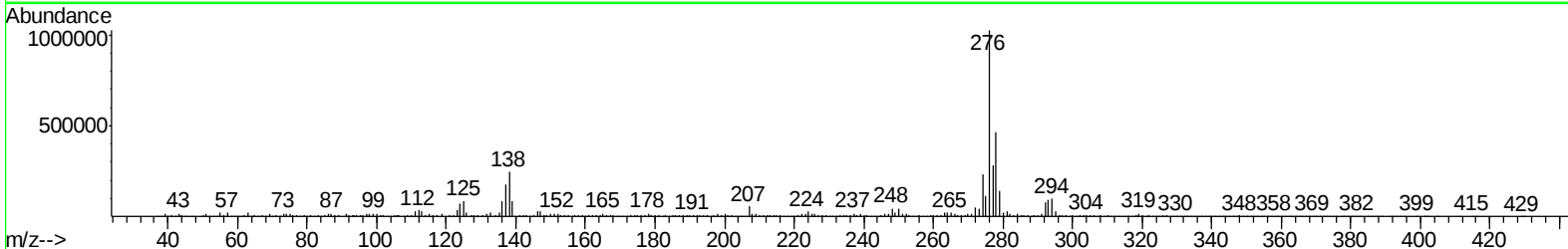
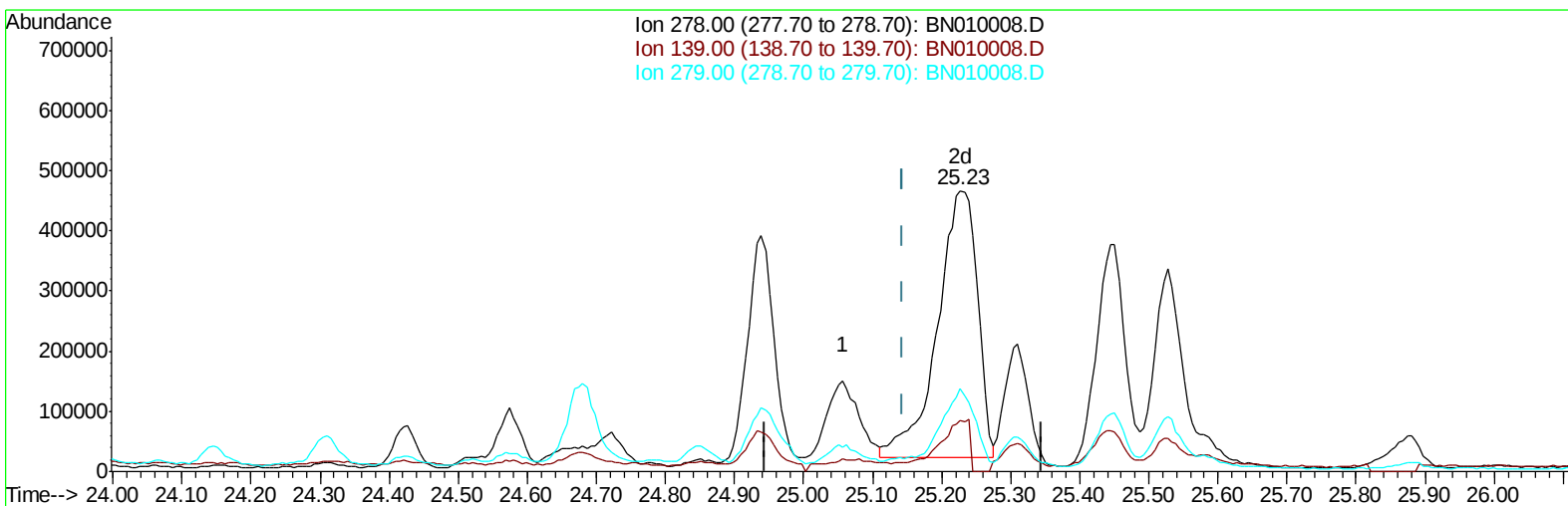
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
Data File : BN010008.D  
Acq On : 29 Feb 2020 05:07  
Operator : CG/JU  
Sample : L1507-20RX  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
CB5R5RX

Quant Time: Mar 02 13:04:57 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 29 01:38:10 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM



TIC: BN010008.D

(93) Dibenzo(a,h)anthracene

25.227min (+0.082) 47.00ng/ul m

response 1788676

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 16.20 | 18.07  |
| 279.00 | 21.90 | 29.58# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:10:15 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 115523   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.12 | 136  | 457092   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.21 | 164  | 302075m  | 20.00 | ng/ul | 0.19     |
| 62) Phenanthrene-d10      | 16.90 | 188  | 89749m   | 20.00 | ng/ul | 0.12     |
| 78) Chrysene-d12          | 21.17 | 240  | 567196m  | 20.00 | ng/ul | 0.18     |
| 86) Perylene-d12          | 23.19 | 264  | 642494m  | 20.00 | ng/ul | 0.09     |

## System Monitoring Compounds

|                                |       |     |          |       |       |       |
|--------------------------------|-------|-----|----------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.03  | 96  | 6174     | 2.20  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.58  | 99  | 216636   | 22.04 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.73  | 67  | 144711   | 21.34 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 6.92  | 132 | 169444   | 22.91 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.09  | 113 | 174270   | 22.29 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.52  | 128 | 112768   | 33.72 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.23  | 143 | 96714    | 26.44 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.77  | 165 | 170837   | 24.29 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.28 | 131 | 141593   | 17.92 | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 13.42 | 166 | 131      | 0.01  | ng/ul | -0.03 |
| 47) Acenaphthylene-d8          | 13.66 | 160 | 13983    | 0.53  | ng/ul | -0.05 |
| 52) 4-Nitrophenol-d4           | 14.29 | 143 | 29095m   | 7.06  | ng/ul | 0.02  |
| 58) Fluorene-d10               | 14.99 | 176 | 3104     | 0.16  | ng/ul | -0.03 |
| 63) 4,6-Dinitro-2-methylphenol | 15.15 | 200 | 55       | 0.10  | ng/ul | -0.04 |
| 71) Anthracene-d10             | 17.22 | 188 | 201242m  | 48.92 | ng/ul | 0.34  |
| 79) Pyrene-d10                 | 19.25 | 212 | 1032138m | 34.82 | ng/ul | 0.06  |
| 90) Benzo(a)pyrene-d12         | 23.07 | 264 | 720257   | 22.45 | ng/ul | 0.11  |

## Target Compounds

|                                |       |     |            |           | Ovalue |     |
|--------------------------------|-------|-----|------------|-----------|--------|-----|
| 4) Benzaldehyde                | 6.55  | 77  | 15642      | 2.394     | ng/ul# | 1   |
| 11) 2-Methylphenol             | 7.85  | 108 | 9124       | 1.184     | ng/ul  | 83  |
| 14) Acetophenone               | 8.20  | 105 | 60928      | 4.784     | ng/ul# | 89  |
| 16) 4-Methylphenol             | 8.17  | 108 | 50114      | 5.927     | ng/ul  | 98  |
| 24) 2,4-Dimethylphenol         | 9.35  | 107 | 12037      | 1.354     | ng/ul# | 79  |
| 25) Bis(2-Chloroethoxy)methane | 9.55  | 93  | 22477      | 2.121     | ng/ul# | 89  |
| 28) Naphthalene                | 10.17 | 128 | 681952     | 27.667    | ng/ul# | 93  |
| 32) Caprolactam                | 11.05 | 113 | 4208       | 1.768     | ng/ul# | 1   |
| 34) 2-Methylnaphthalene        | 11.83 | 142 | 45154166m  | 2638.213  | ng/ul  |     |
| 41) 1,1'-Biphenyl              | 12.85 | 154 | 3739214    | 161.166   | ng/ul  | 100 |
| 42) 2-Chloronaphthalene        | 12.85 | 162 | 146343     | 7.942     | ng/ul# | 29  |
| 45) Dimethylphthalate          | 13.45 | 163 | 91055      | 3.867     | ng/ul# | 65  |
| 48) Acenaphthylene             | 13.79 | 152 | 15955312m  | 554.728   | ng/ul  |     |
| 50) Acenaphthene               | 14.13 | 153 | 146343713m | 7422.079  | ng/ul  |     |
| 54) Dibenzofuran               | 14.45 | 168 | 6664365m   | 240.807   | ng/ul  |     |
| 55) 2,4-Dinitrotoluene         | 14.35 | 165 | 261429     | 38.272    | ng/ul# | 1   |
| 59) Fluorene                   | 15.16 | 166 | 97712940m  | 4207.088  | ng/ul  |     |
| 70) Phenanthrene               | 16.89 | 178 | 100012023m | 19526.017 | ng/ul  |     |
| 72) Anthracene                 | 17.05 | 178 | 104445999m | 19947.380 | ng/ul  |     |
| 75) Carbazole                  | 17.35 | 167 | 38581096m  | 8367.098  | ng/ul  |     |
| 77) Fluoranthene               | 18.94 | 202 | 157454647m | 26243.789 | ng/ul  |     |
| 80) Pyrene                     | 19.38 | 202 | 114939674m | 2810.791  | ng/ul  |     |
| 81) Butylbenzylphthalate       | 20.10 | 149 | 26721      | 1.590     | ng/ul# | 47  |

Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN022820\  
 Data File : BN010008.D  
 Acq On : 29 Feb 2020 05:07  
 Operator : CG/JU  
 Sample : L1507-20RX  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB5R5RX

Manual Integrations  
 APPROVED

mohammad  
 3/3/2020 4:59:38 PM

Quant Time: Mar 02 13:10:15 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 29 01:38:10 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response  | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|-----------|----------|--------|----------|
| 82) 3,3'-Dichlorobenzidine     | 20.89 | 252  | 54715     | 4.424    | ng/ul# | 15       |
| 83) Benzo(a)anthracene         | 21.08 | 228  | 81669658m | 2095.266 | ng/ul  |          |
| 84) Bis(2-ethylhexyl)phthalate | 21.03 | 149  | 1688249   | 65.780   | ng/ul  | 95       |
| 85) Chrysene                   | 21.30 | 228  | 7894474m  | 205.727  | ng/ul  |          |
| 88) Benzo(b)fluoranthene       | 22.61 | 252  | 40629864m | 975.347  | ng/ul  |          |
| 89) Benzo(k)fluoranthene       | 22.66 | 252  | 7007347m  | 177.654  | ng/ul  |          |
| 91) Benzo(a)pyrene             | 23.14 | 252  | 15590912  | 416.130  | ng/ul  | 100      |
| 92) Indeno(1,2,3-cd)pyrene     | 25.25 | 276  | 5378265m  | 120.907  | ng/ul  |          |
| 93) Dibenzo(a,h)anthracene     | 25.23 | 278  | 1788676m  | 47.004   | ng/ul  |          |
| 94) Benzo(a,h,i)perylene       | 25.87 | 276  | 3054158   | 81.884   | ng/ul  | 97       |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN022820\  
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Manual Integrations  
APPROVED

mohammad  
3/3/2020 4:59:38 PM

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QLast Update : Sat Feb 29 01:38:10 2020  
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