

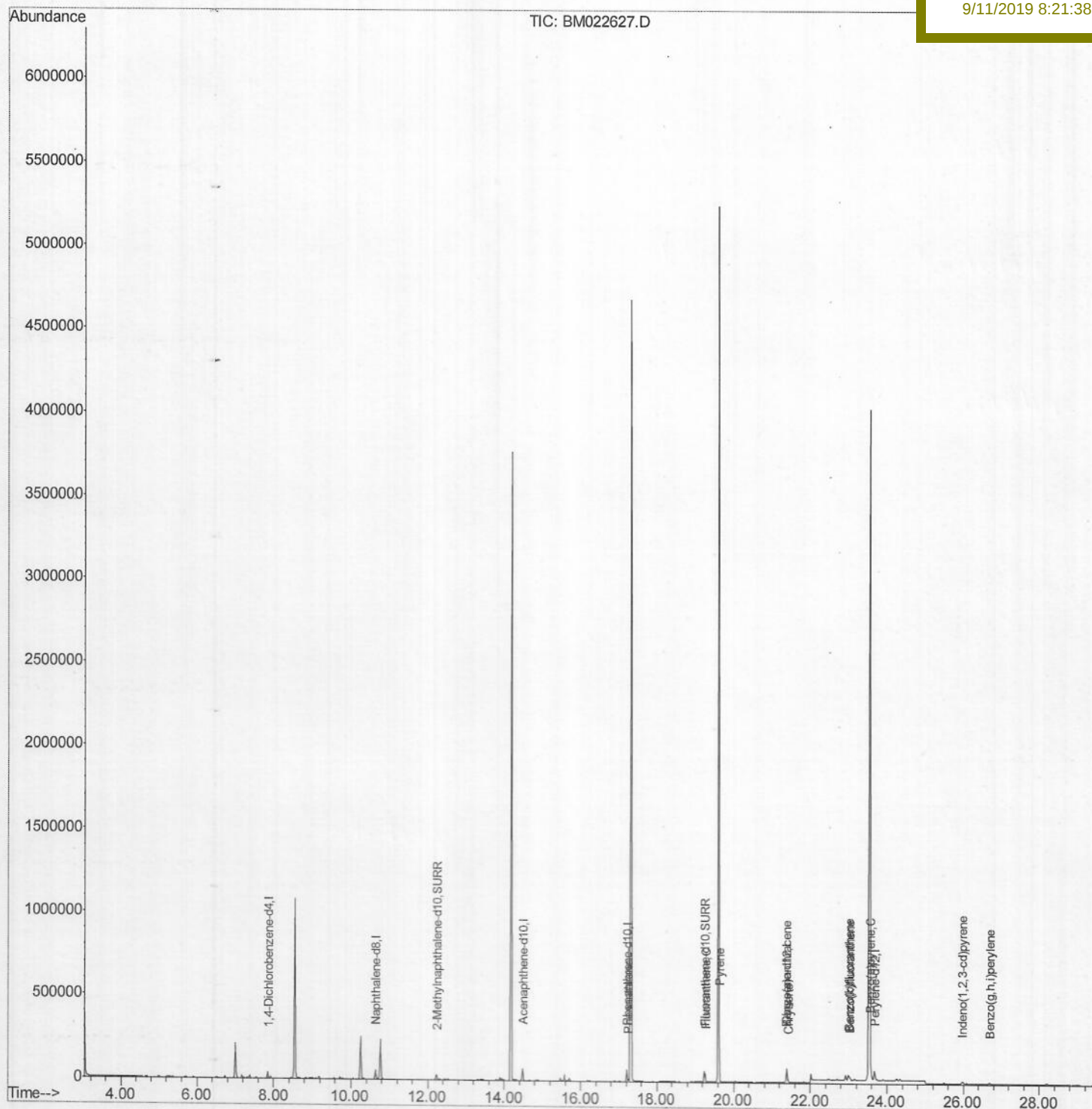
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\  
Data File : BM022627.D  
Acq On : 10 Sep 2019 19:35  
Operator : HP/JU  
Sample : K4708-05  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:12:15 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 10 15:06:45 2019  
Response via : Initial Calibration

Instrument :  
BNA\_M  
ClientSampleId :  
CB5Q2

Manual Integrations  
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mohammad  
9/11/2019 8:21:38 AM



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:07:29 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

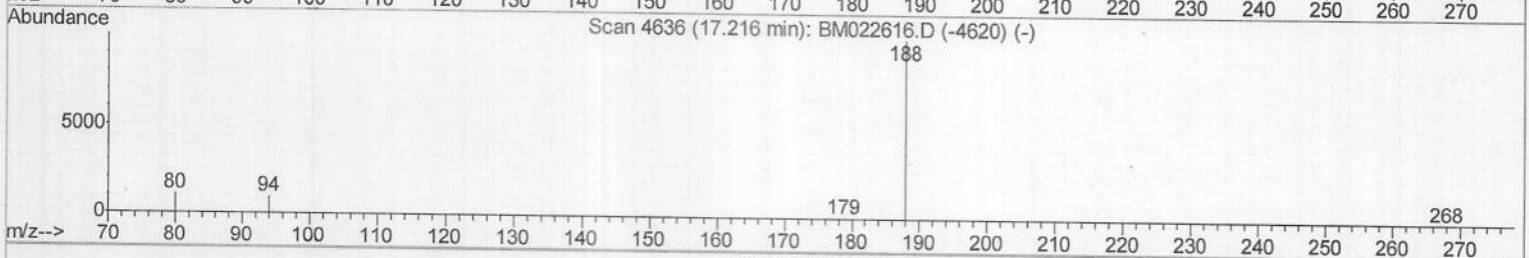
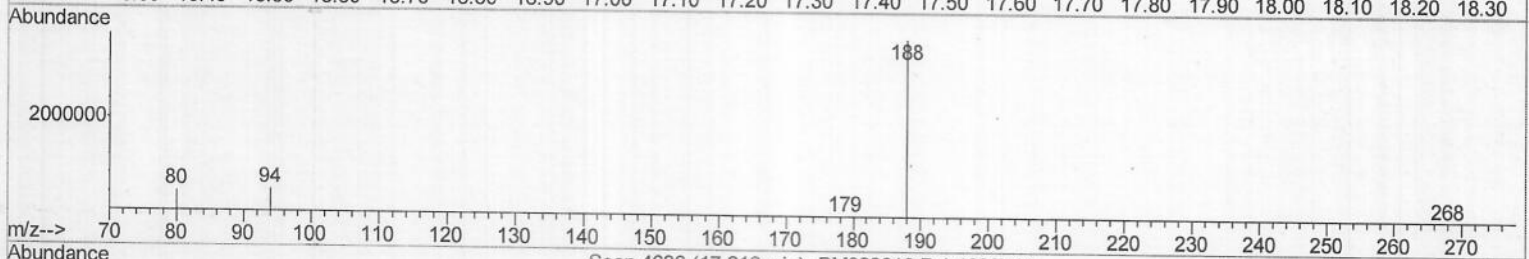
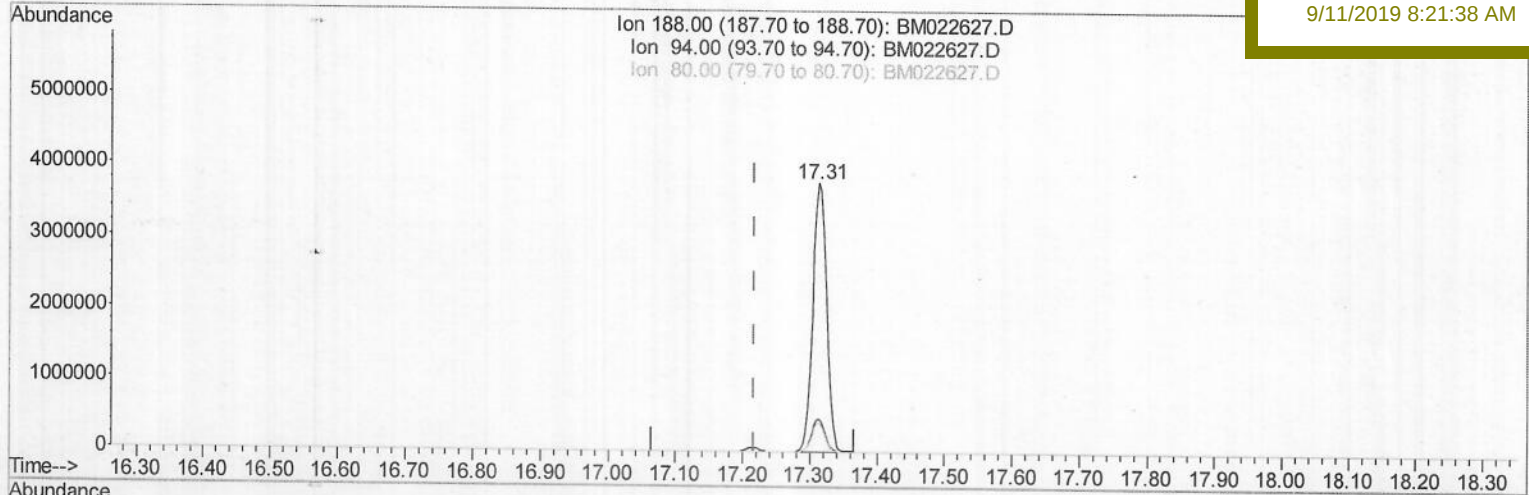
CB5Q2

Manual Integrations

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TIC: BM022627.D

(10) Phenanthrene-d10 (I)

17.313min (+0.097) 0.40ng/ul

response 5400493

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 9.80  | 12.45# |
| 80.00  | 11.00 | 11.01  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:07:29 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

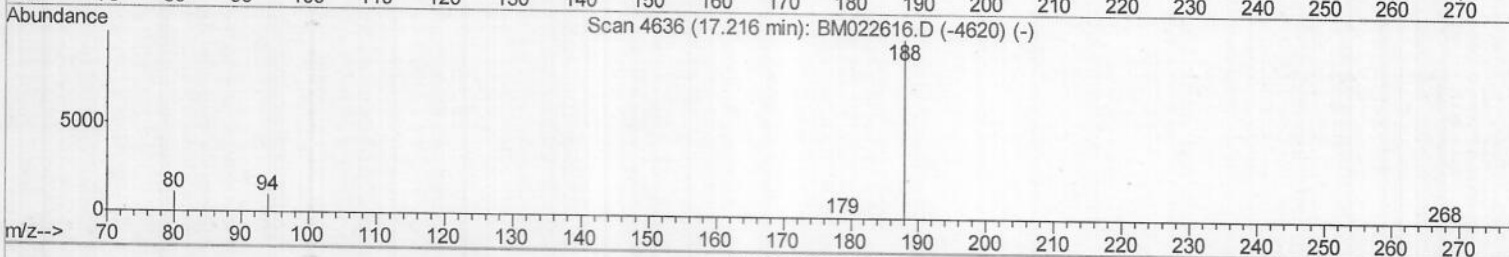
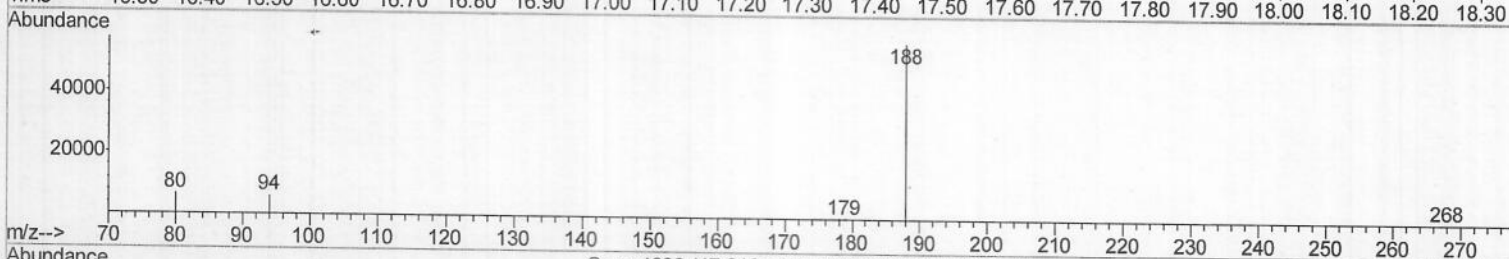
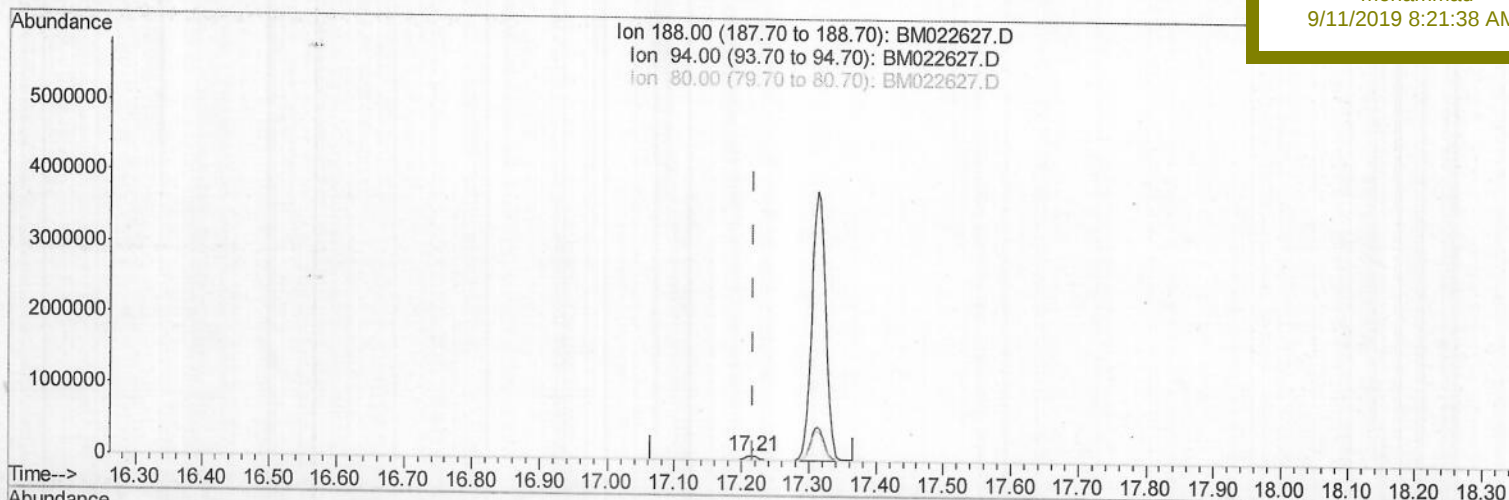
CB5Q2

Manual Integrations

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9/11/2019 8:21:38 AM



TIC: BM022627.D

(10) Phenanthrene-d10 (I)

17.213min (-0.004) 0.40ng/ul m

response 80543

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 9.80  | 10.61 |
| 80.00  | 11.00 | 11.50 |
| 0.00   | 0.00  | 0.00  |

JU  
09/11/19

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:02 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

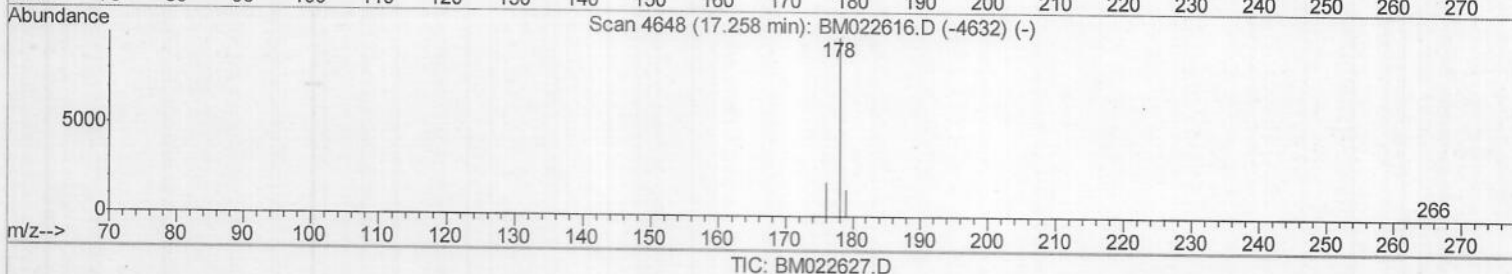
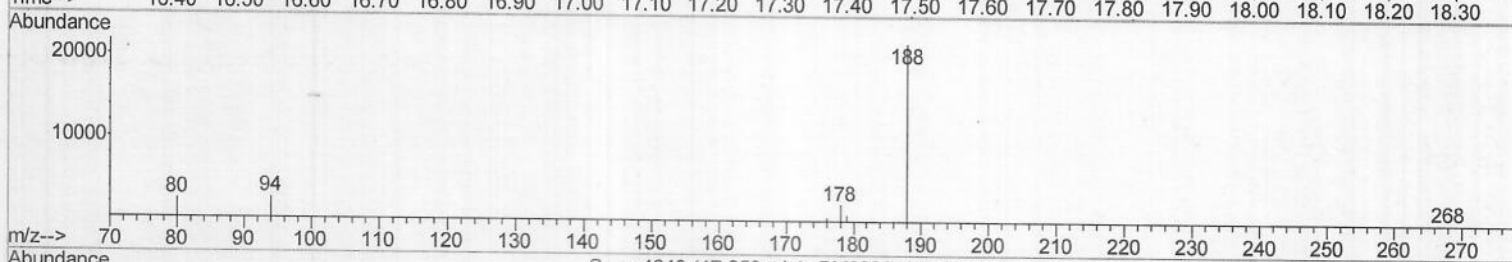
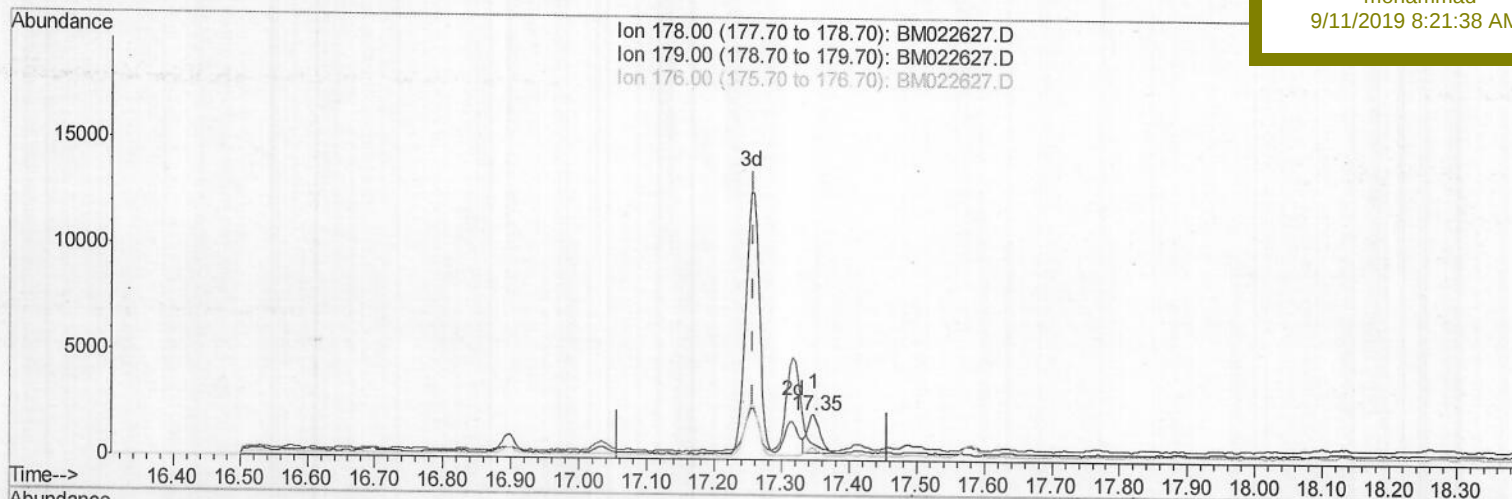
Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

CB5Q2

Manual Integrations  
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(12) Phenanthrene ~

17.348min (+0.090) 0.01ng/ul

response 2367

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.50 | 35.74# |
| 176.00 | 19.10 | 26.06# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:02 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

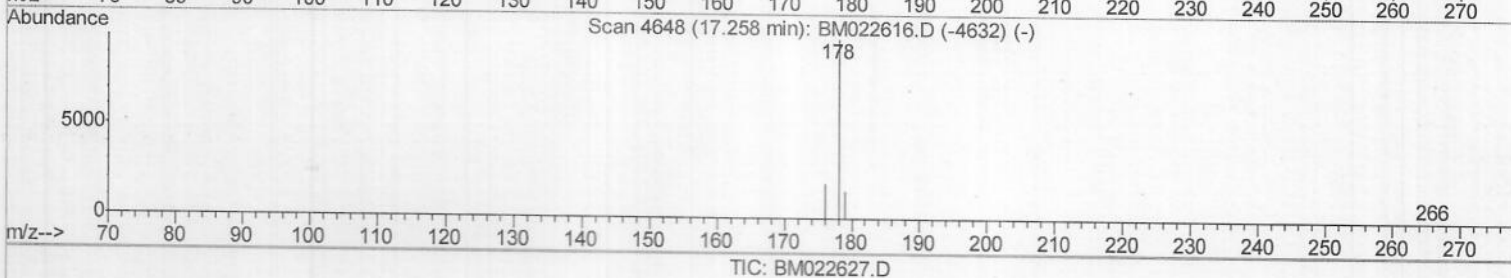
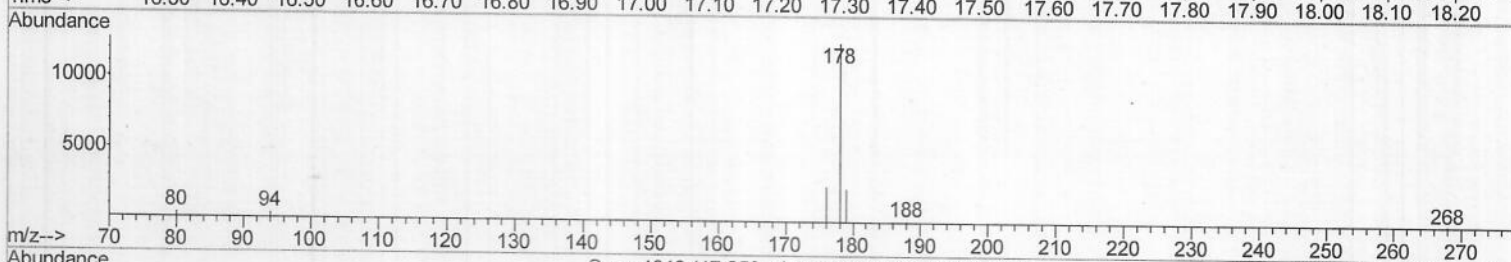
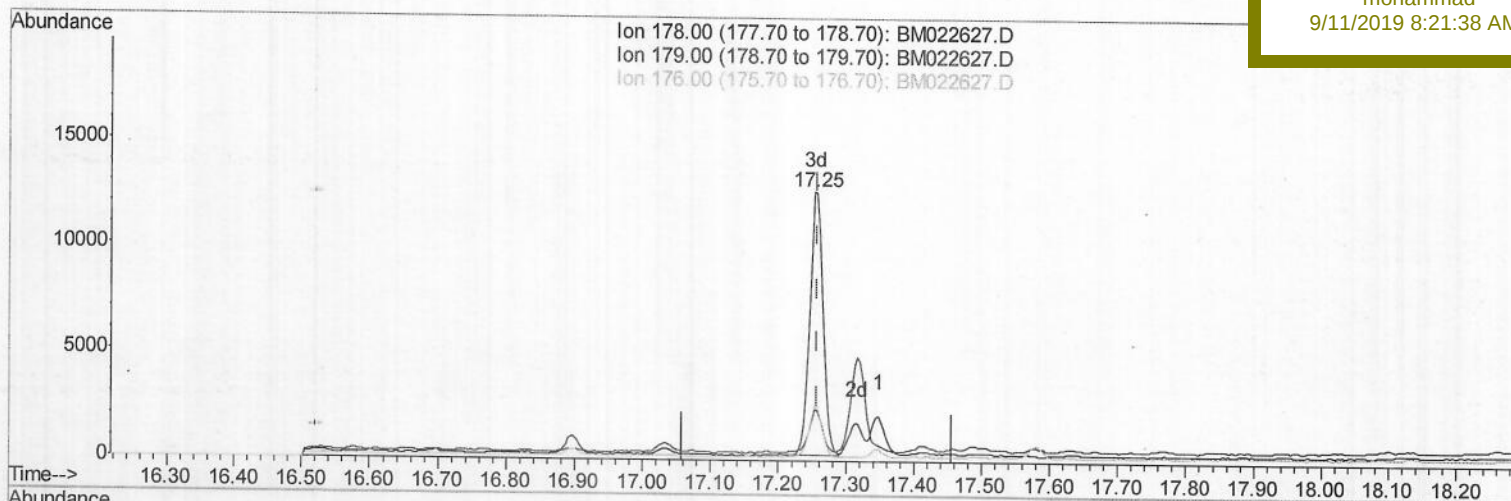
Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

CB5Q2

Manual Integrations  
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(12) Phenanthrene

17.254min (-0.004) 0.07ng/ul m) JU  
09/11/19

response 17161

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.50 | 18.89# |
| 176.00 | 19.10 | 20.51  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

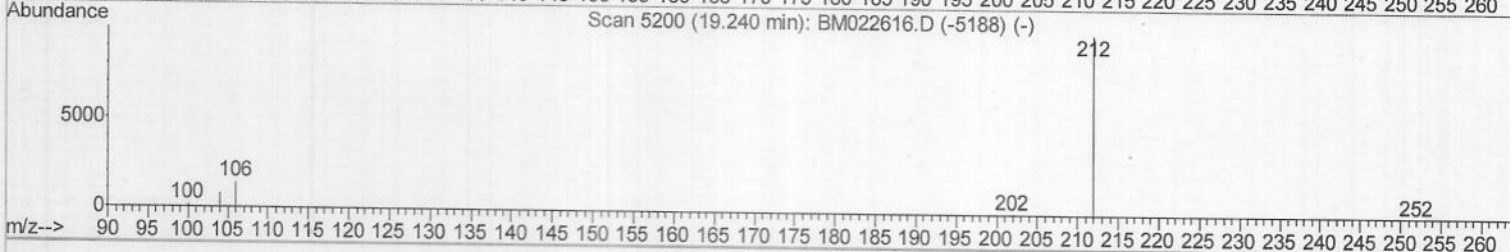
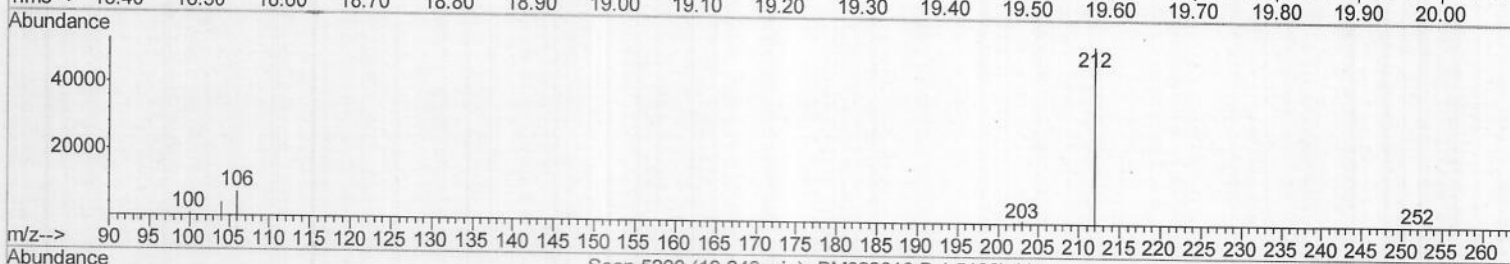
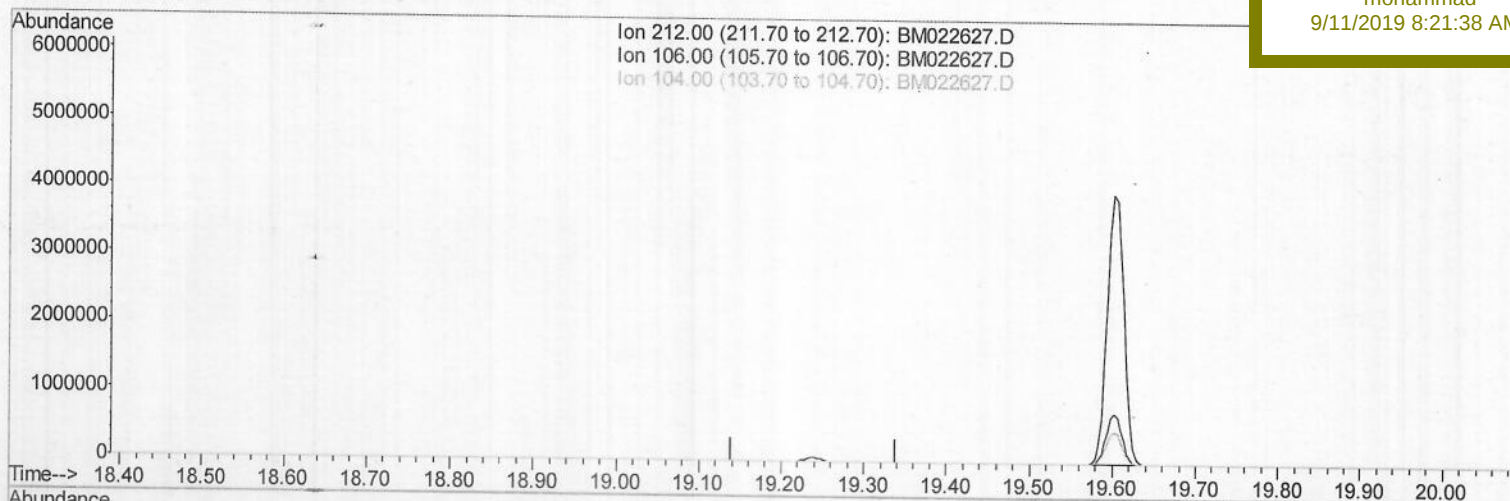
CB5Q2

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TIC: BM022627.D

(14) Fluoranthene-d10 (SURR)

19.240min (-19.240) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 212.00 | 100   | 0.00  |
| 106.00 | 14.00 | 0.00# |
| 104.00 | 8.00  | 0.00# |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

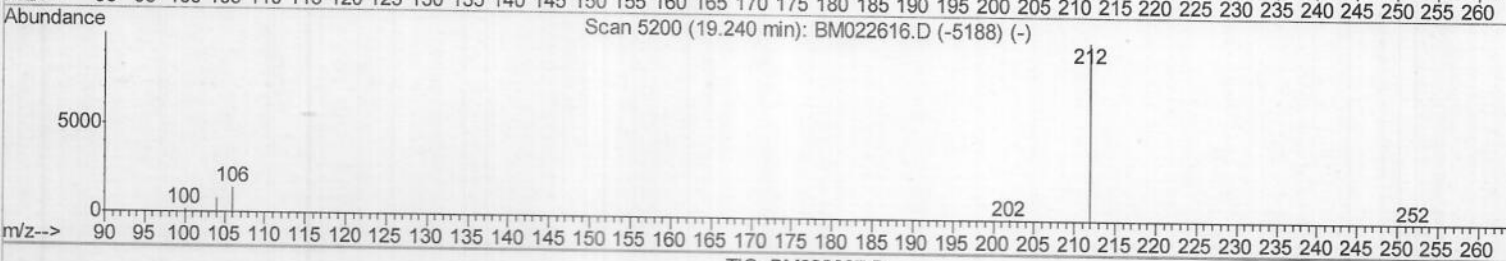
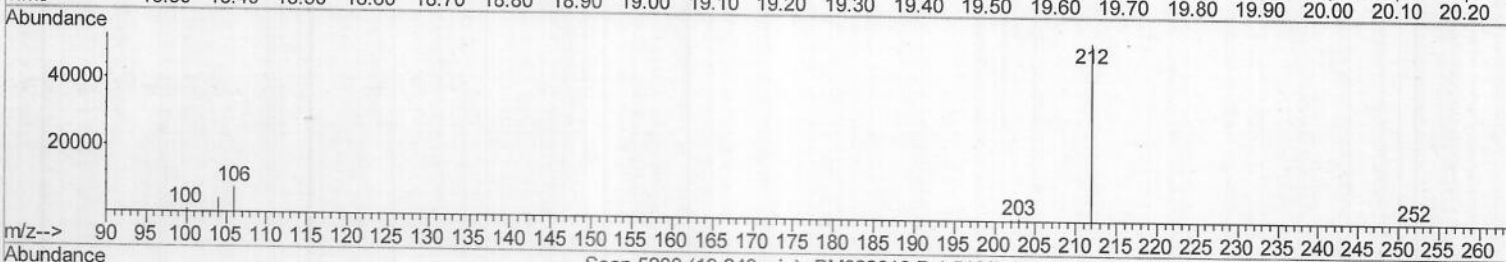
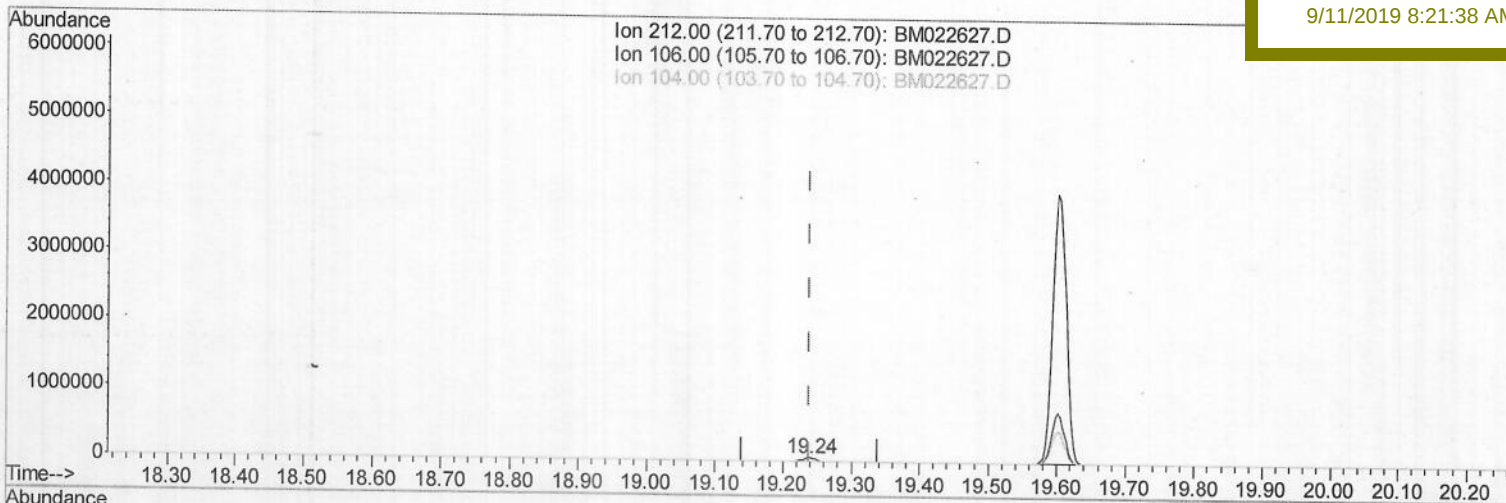
CB5Q2

Manual Integrations

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TIC: BM022627.D

(14) Fluoranthene-d10 (SURR)

19.240min (-0.000) 0.31ng/ul m

response 69138

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 212.00 | 100   | 100   |
| 106.00 | 14.00 | 0.00# |
| 104.00 | 8.00  | 0.00# |
| 0.00   | 0.00  | 0.00  |

JU  
09/11/19

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

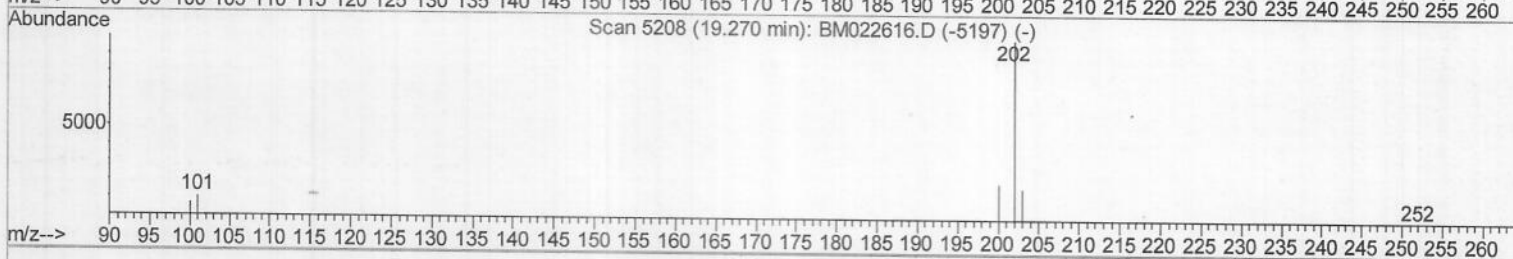
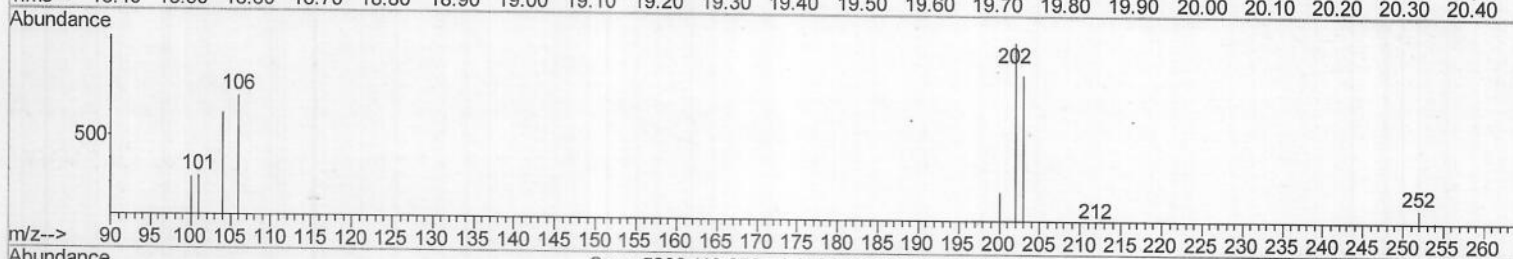
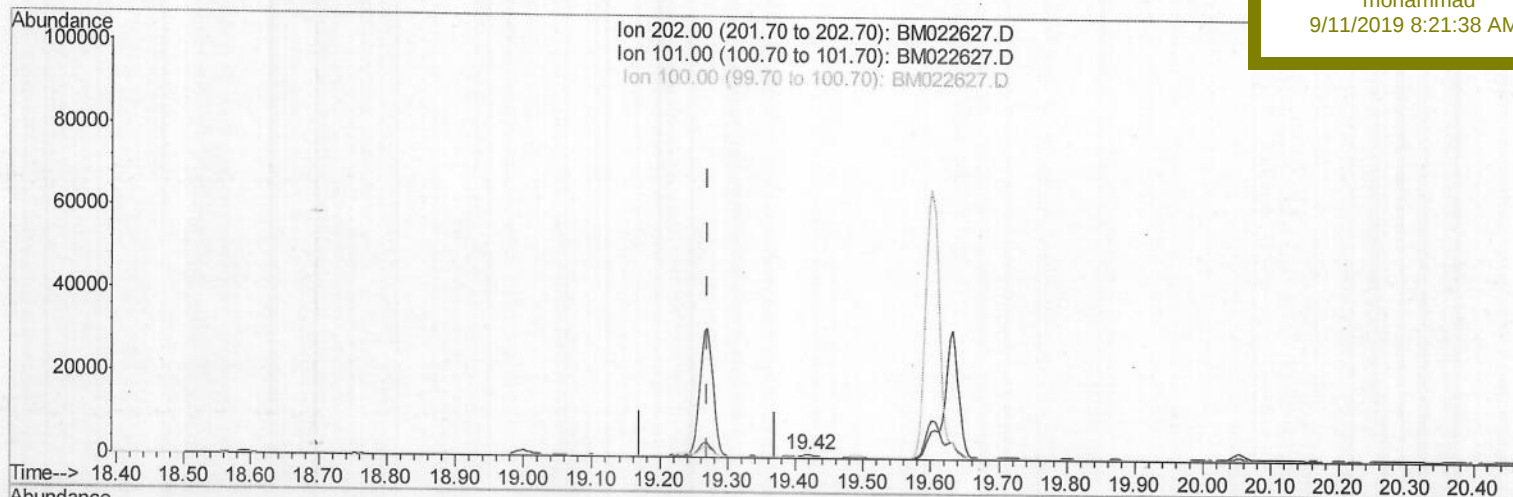
CB5Q2

Manual Integrations

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9/11/2019 8:21:38 AM



TIC: BM022627.D

(15) Fluoranthene (C)

19.419min (+0.149) 0.00ng/ui

response 789

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 10.50 | 36.36# |
| 100.00 | 8.00  | 35.49# |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (Qedit)

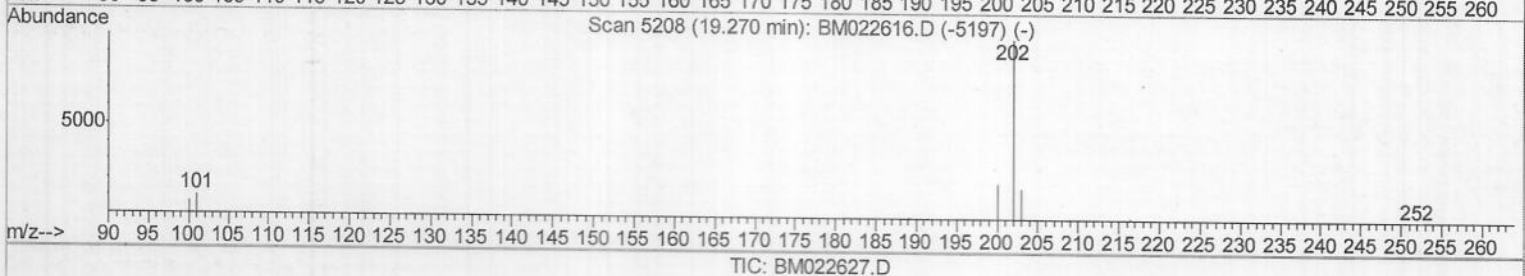
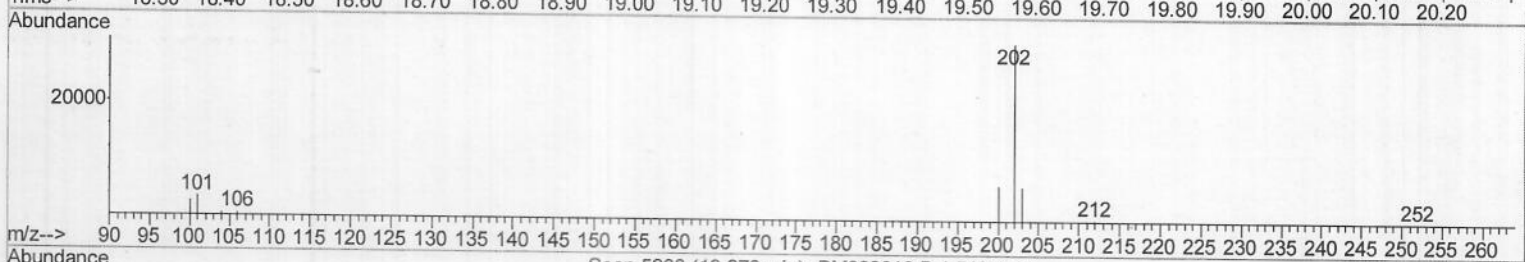
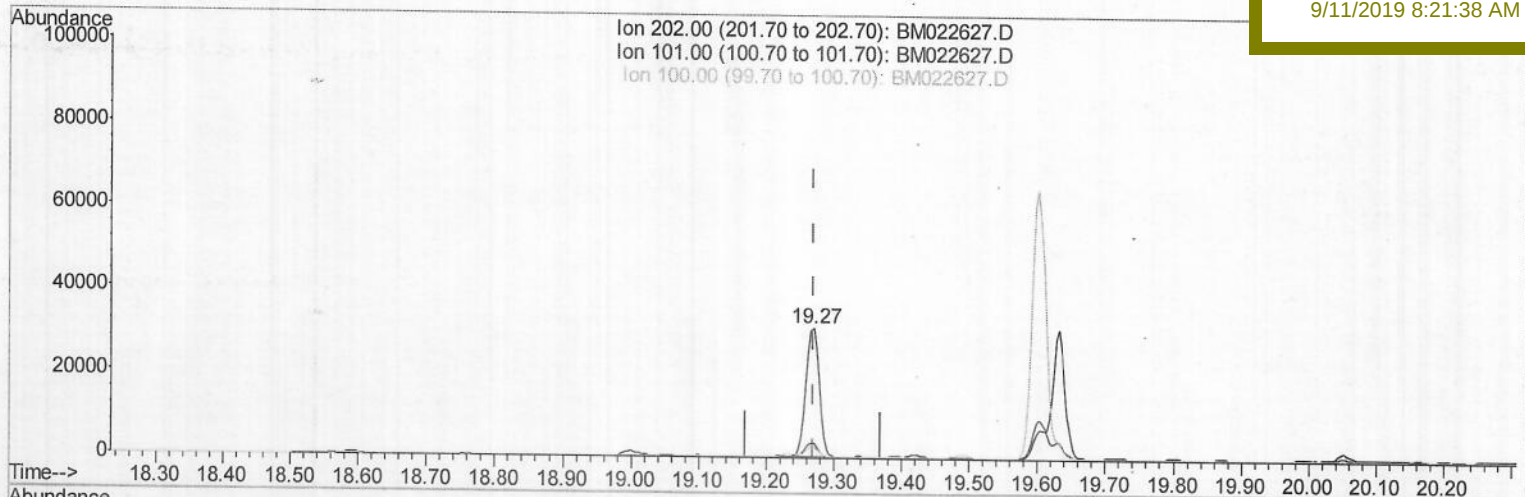
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\  
Data File : BM022627.D  
Acq On : 10 Sep 2019 19:35  
Operator : HP/JU  
Sample : K4708-05  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:52 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 10 15:06:45 2019  
Response via : Initial Calibration

Instrument :  
BNA\_M  
ClientSampleId :  
CB5Q2

Manual Integrations  
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9/11/2019 8:21:38 AM



(15) Fluoranthene (C)

19.270min (-0.000) 0.15ng/ui m )JU  
response 41562 09/11/19

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 10.50 | 11.23 |
| 100.00 | 8.00  | 8.48  |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

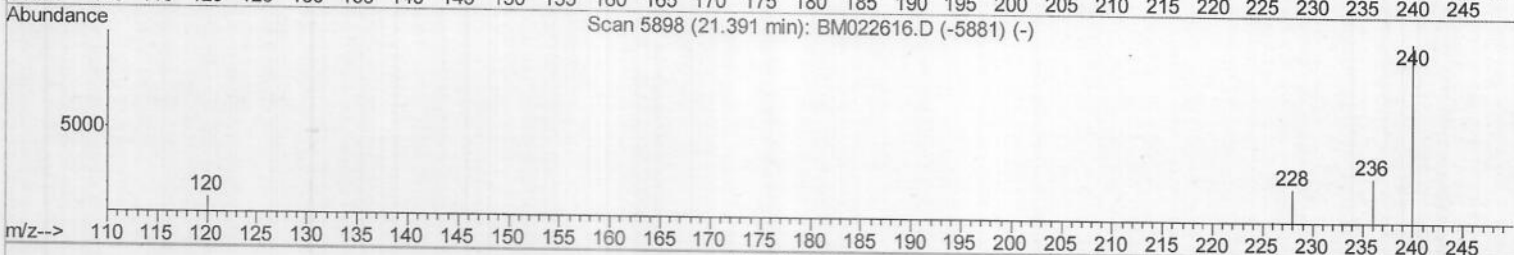
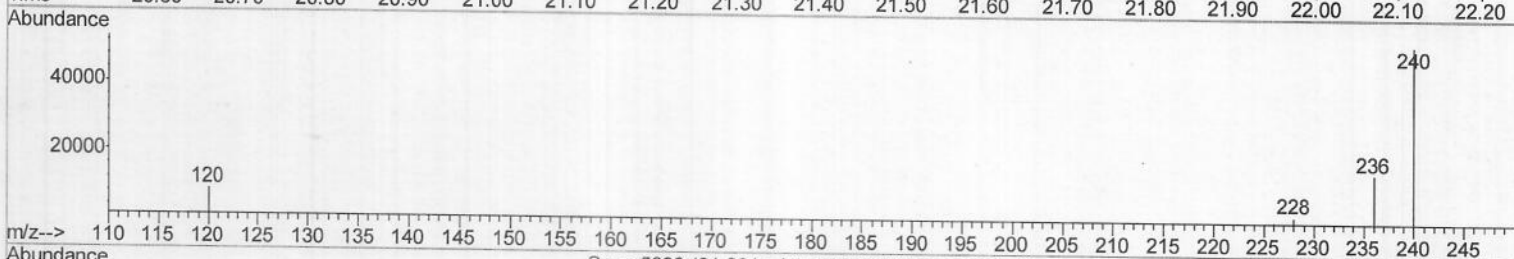
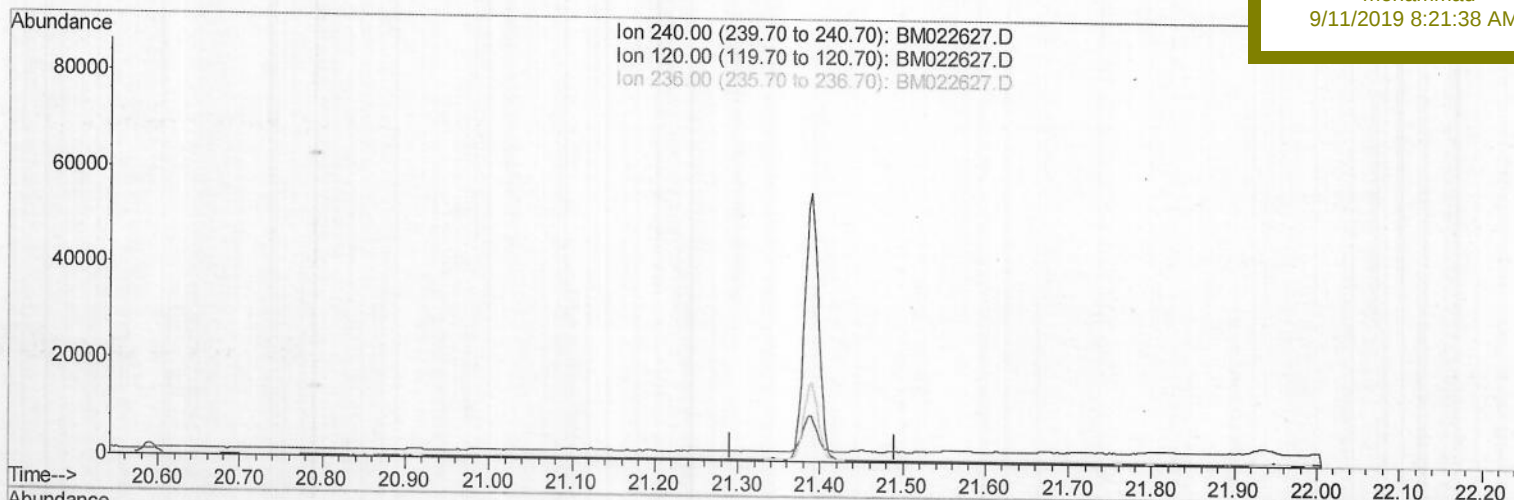
CB5Q2

Manual Integrations

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9/11/2019 8:21:38 AM



(16) Chrysene-d12 (I)

21.391min (-21.391) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 240.00 | 100   | 0.00  |
| 120.00 | 14.60 | 0.00# |
| 236.00 | 28.80 | 0.00# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:08:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

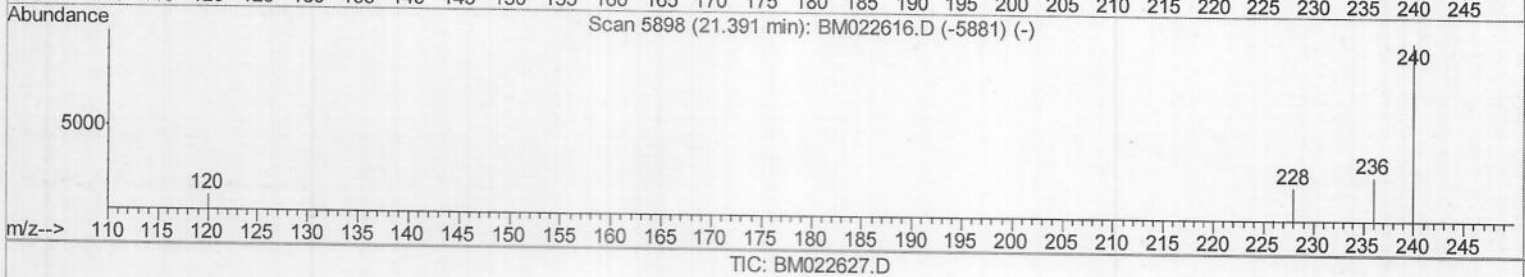
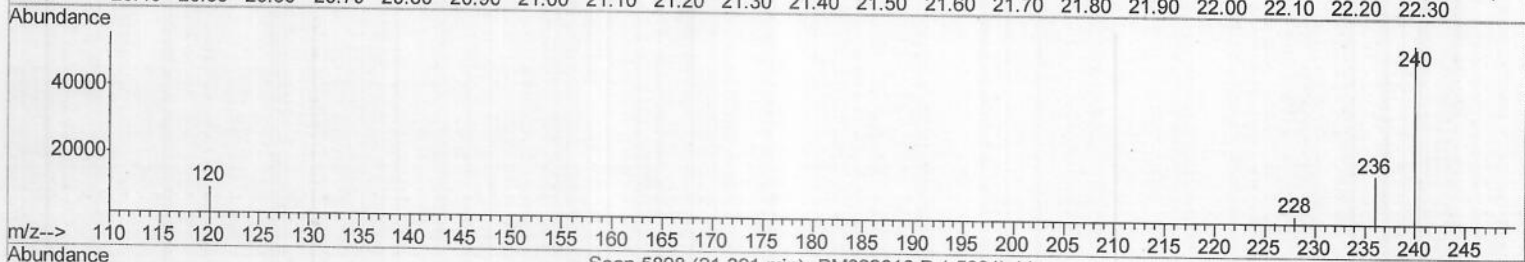
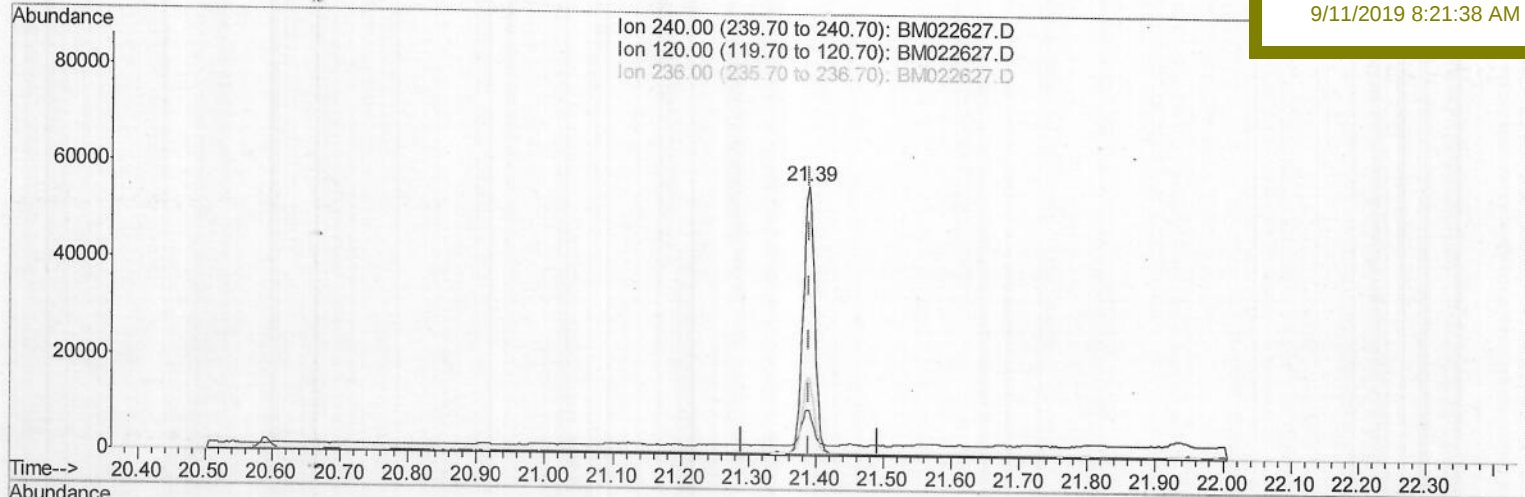
CB5Q2

Manual Integrations

APPROVED

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9/11/2019 8:21:38 AM



(16) Chrysene-d12 (I)

21.389min (-0.002) 0.40ng/ul m ) JU  
09/11/19

response 65993

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 240.00 | 100   | 100   |
| 120.00 | 14.60 | 16.66 |
| 236.00 | 28.80 | 29.09 |
| 0.00   | 0.00  | 0.00  |

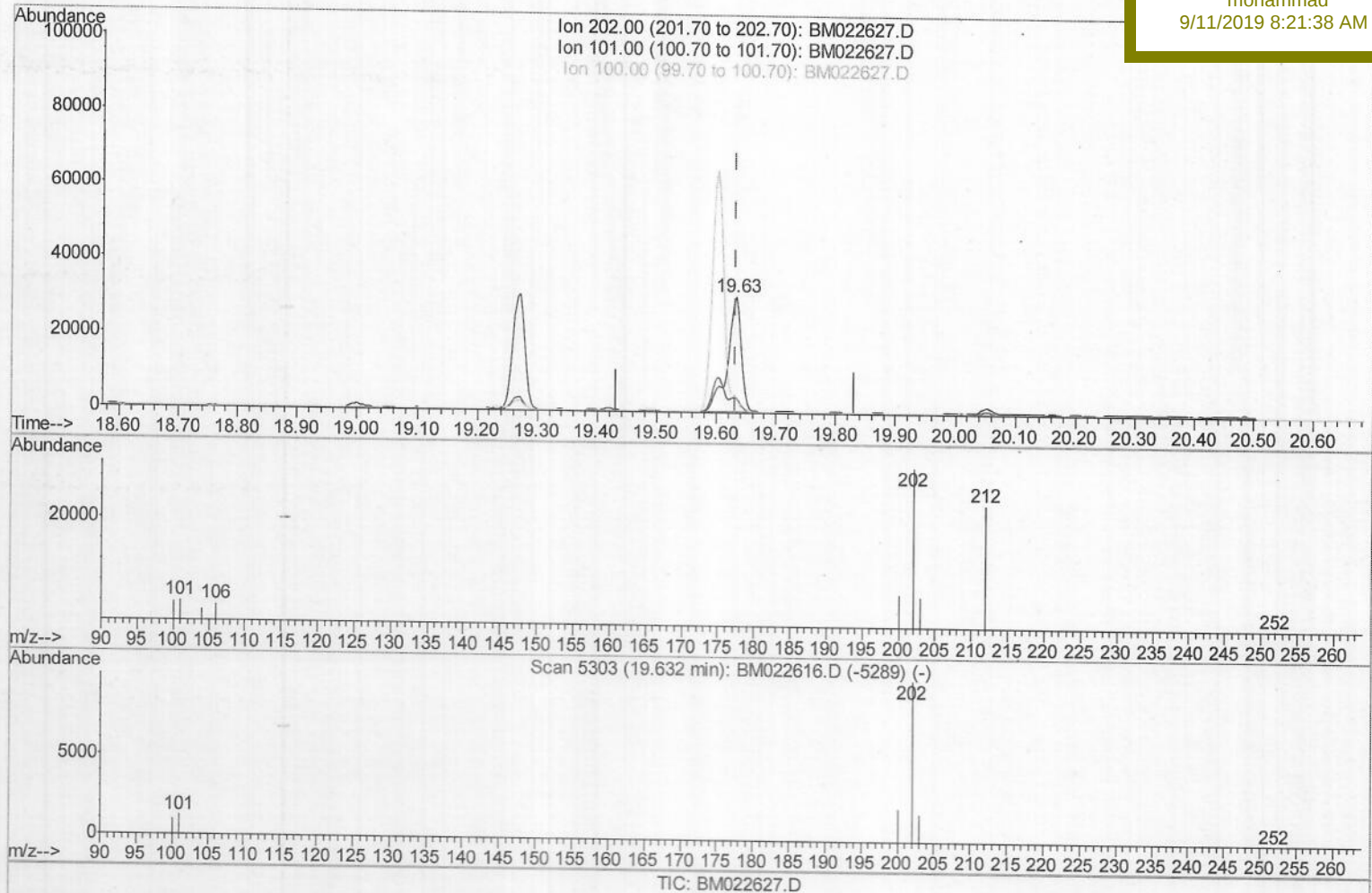
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\  
Data File : BM022627.D  
Acq On : 10 Sep 2019 19:35  
Operator : HP/JU  
Sample : K4708-05  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:10:34 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 10 15:06:45 2019  
Response via : Initial Calibration

Instrument :  
BNA\_M  
ClientSampleId :  
CB5Q2

Manual Integrations  
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9/11/2019 8:21:38 AM



(17) Pyrene --  
19.632min (-0.000) 0.16ng/ul  
response 47756

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.50 | 12.94 |
| 100.00 | 10.10 | 12.02 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

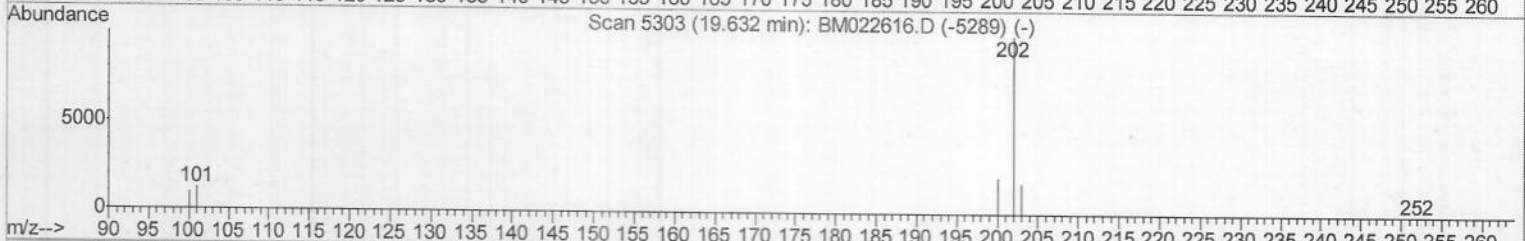
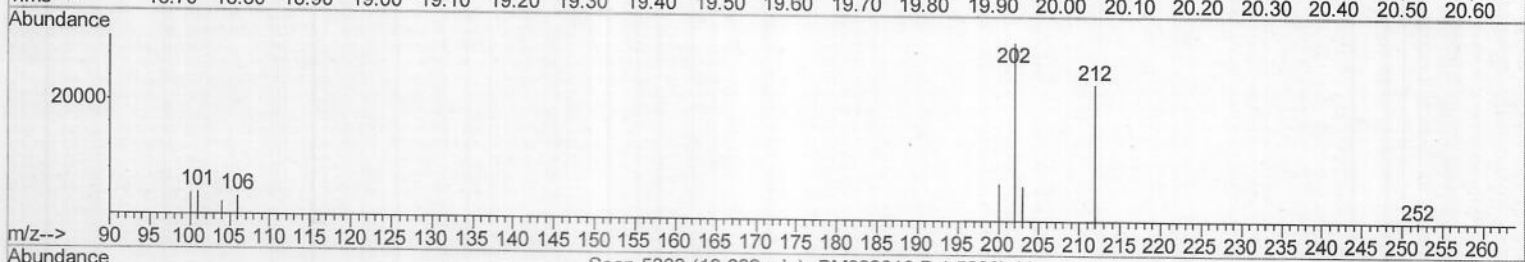
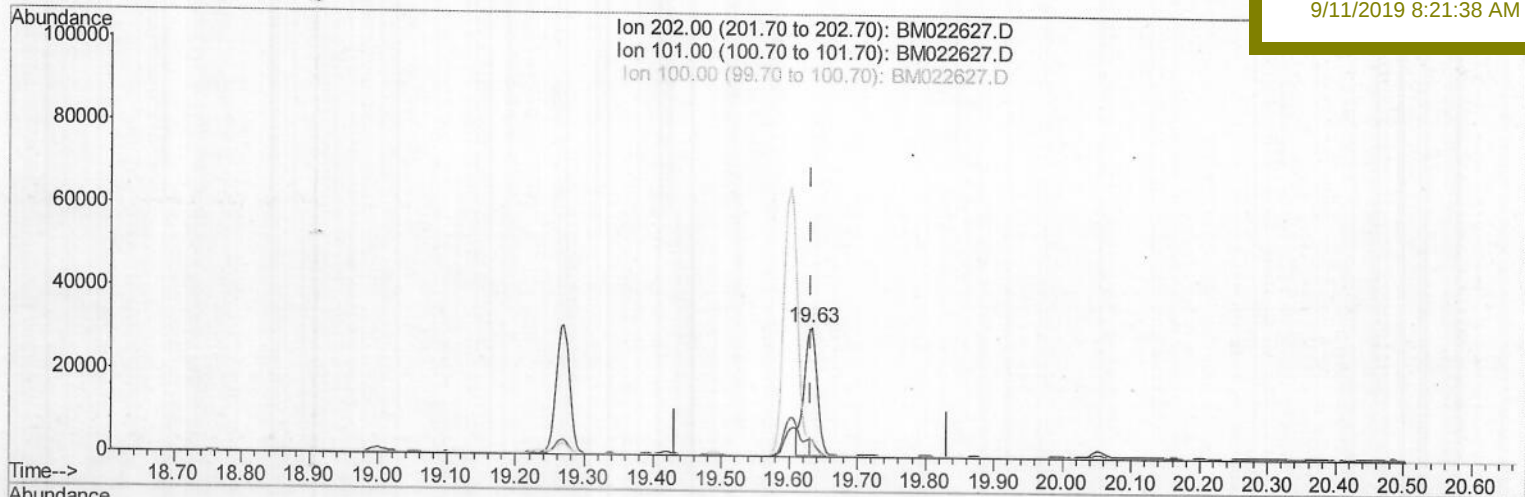
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\  
 Data File : BM022627.D  
 Acq On : 10 Sep 2019 19:35  
 Operator : HP/JU  
 Sample : K4708-05  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:10:34 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 10 15:06:45 2019  
 Response via : Initial Calibration

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5Q2

Manual Integrations  
 APPROVED

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 9/11/2019 8:21:38 AM



(17) Pyrene

19.632min (-0.000) 0.13ng/ul m )JU  
 response 40097 09/11/19

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.50 | 12.94 |
| 100.00 | 10.10 | 12.02 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:10:34 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

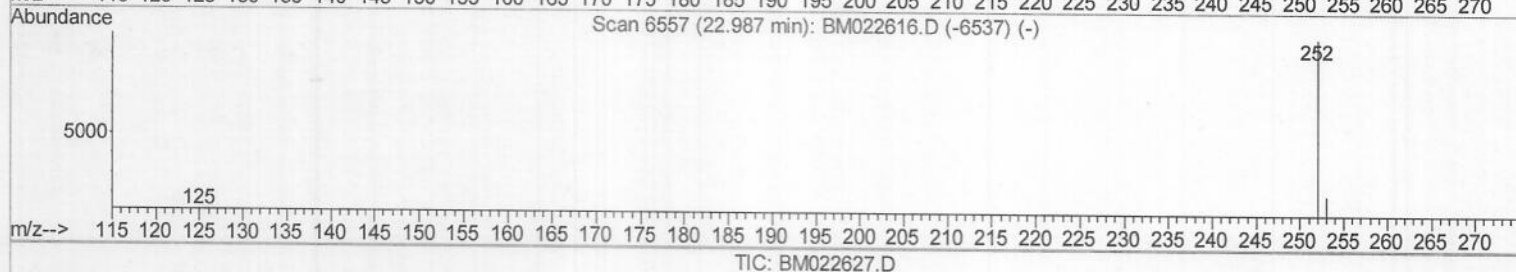
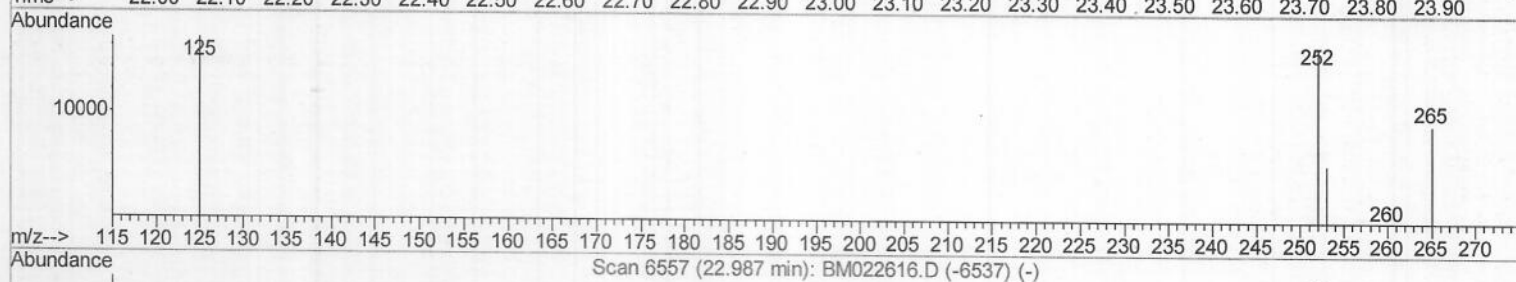
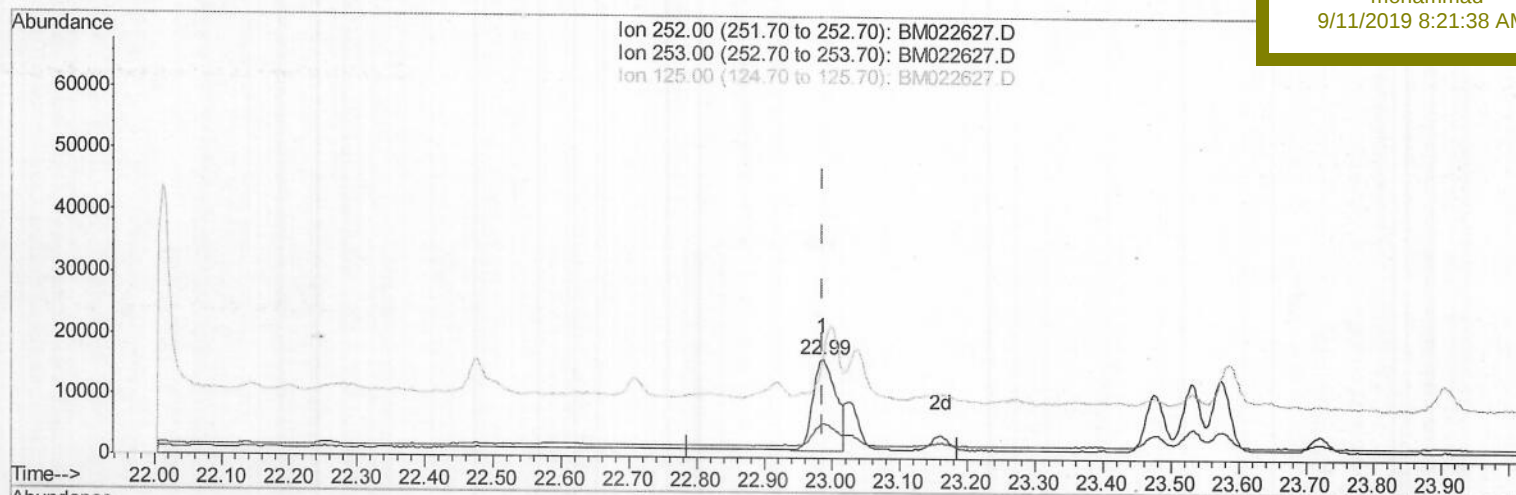
Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

CB5Q2

Manual Integrations  
APPROVEDmohammad  
9/11/2019 8:21:38 AM

(21) Benzo(b)fluoranthene

22.987min (-0.000) 0.11ng/ul m) JU  
09/11/19

response 34928

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 24.20 | 34.00   |
| 125.00 | 15.60 | 102.51# |
| 0.00   | 0.00  | 0.00    |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\

Data File : BM022627.D

Acq On : 10 Sep 2019 19:35

Operator : HP/JU

Sample : K4708-05

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:10:34 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Sep 10 15:06:45 2019

Response via : Initial Calibration

Instrument :

BNA\_M

ClientSampleId :

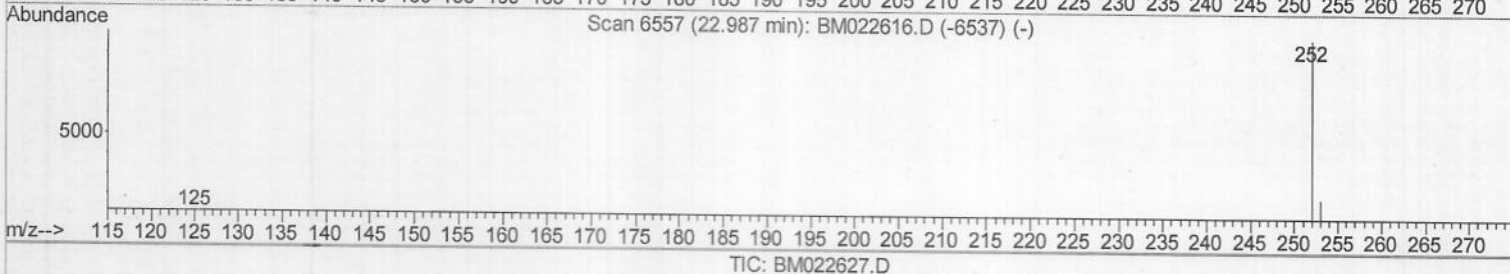
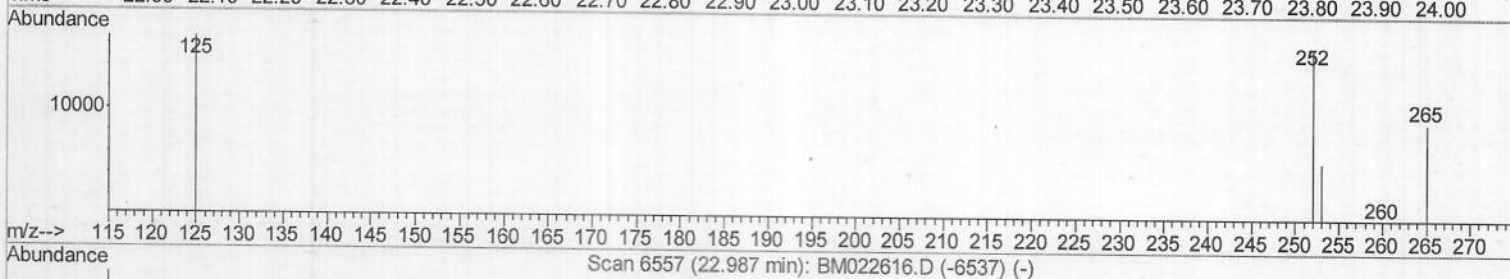
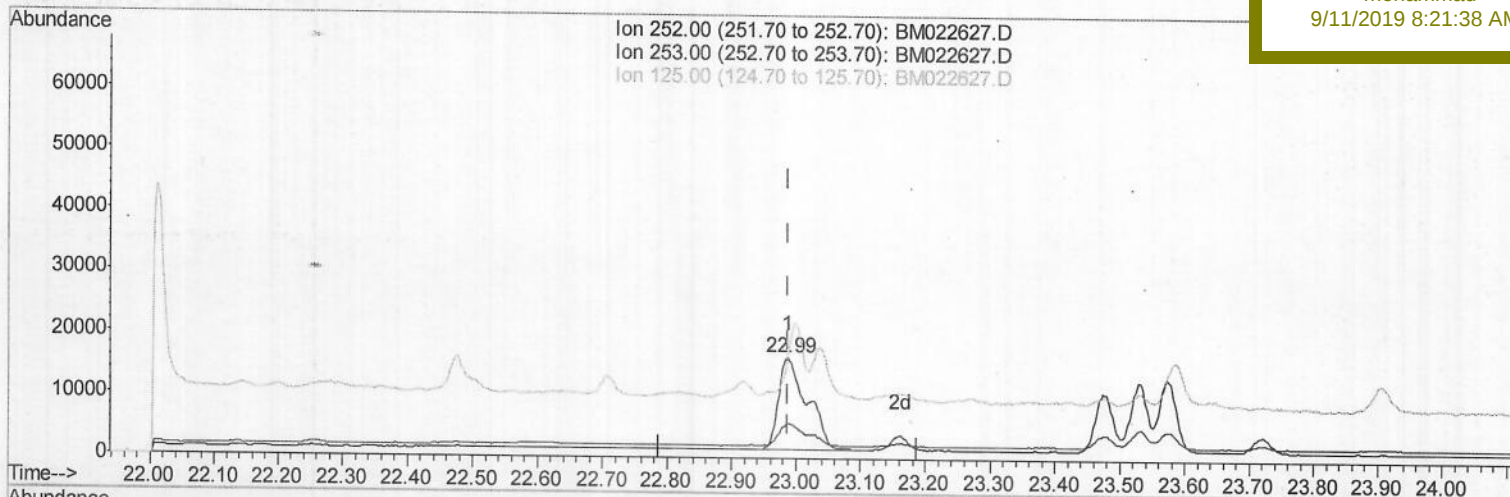
CB5Q2

Manual Integrations

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mohammad

9/11/2019 8:21:38 AM



(21) Benzo(b)fluoranthene

22.987min (-0.000) 0.15ng/ul

response 46285

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 24.20 | 34.00   |
| 125.00 | 15.60 | 102.51# |
| 0.00   | 0.00  | 0.00    |

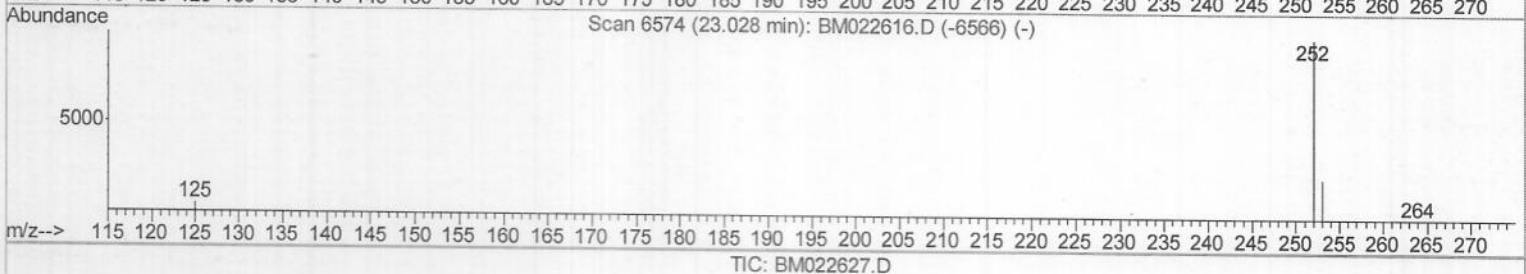
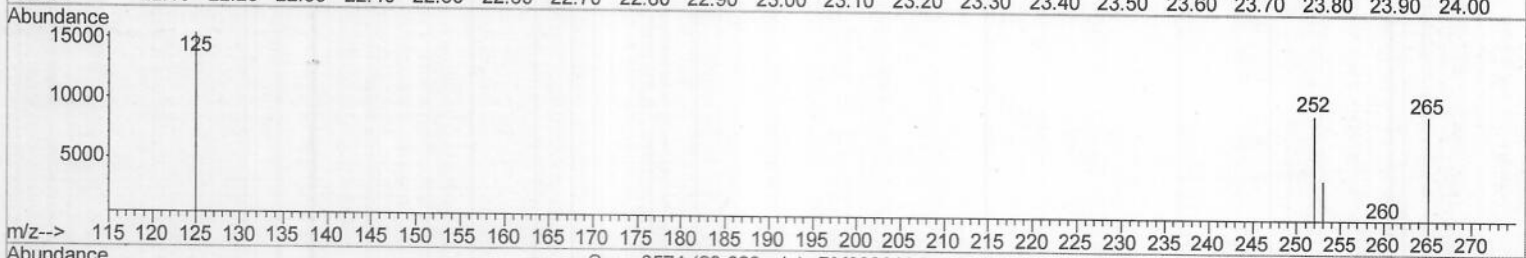
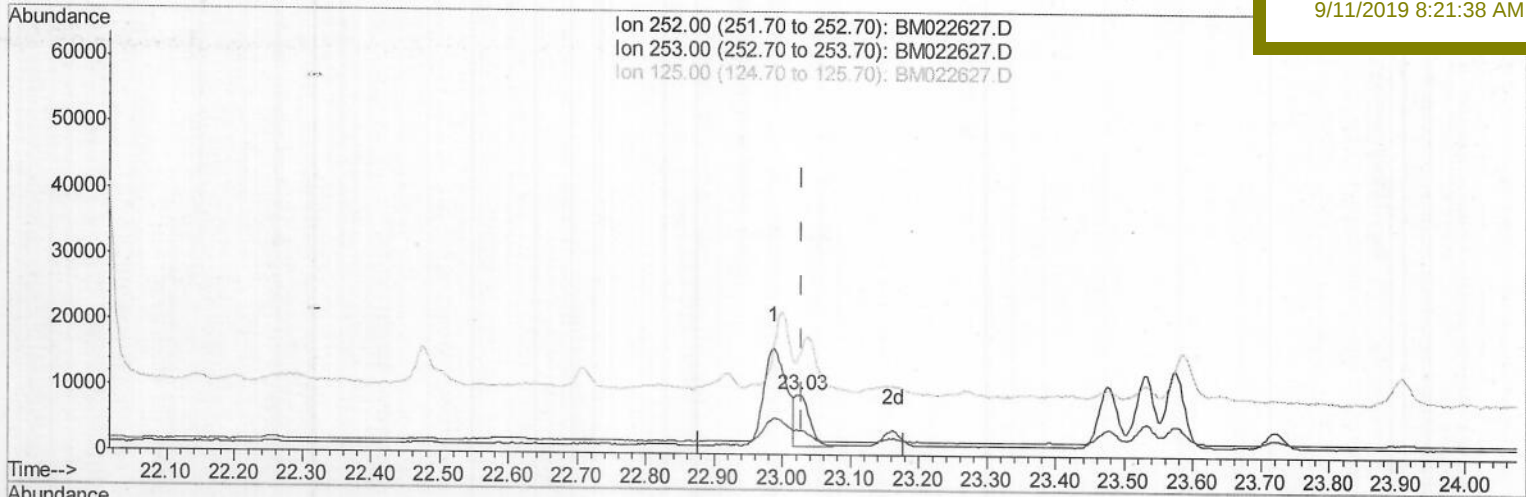
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\  
Data File : BM022627.D  
Acq On : 10 Sep 2019 19:35  
Operator : HP/JU  
Sample : K4708-05  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:10:34 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 10 15:06:45 2019  
Response via : Initial Calibration

Instrument :  
BNA\_M  
ClientSampleId :  
CB5Q2

Manual Integrations  
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9/11/2019 8:21:38 AM



(22) Benzo(k)fluoranthene

23.026min (-0.002) 0.04ng/ul m

response 11839

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 24.40 | 40.89#  |
| 125.00 | 14.00 | 167.12# |
| 0.00   | 0.00  | 0.00    |

JU  
09/11/19

# Quantitation Report (Qedit)

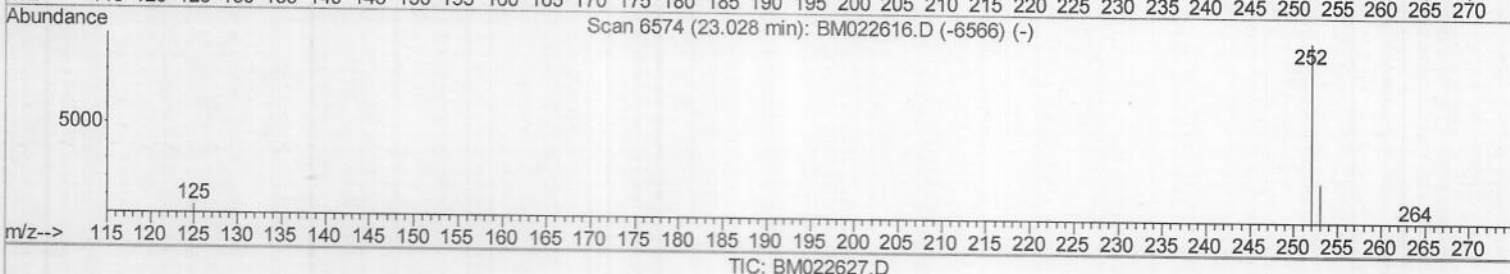
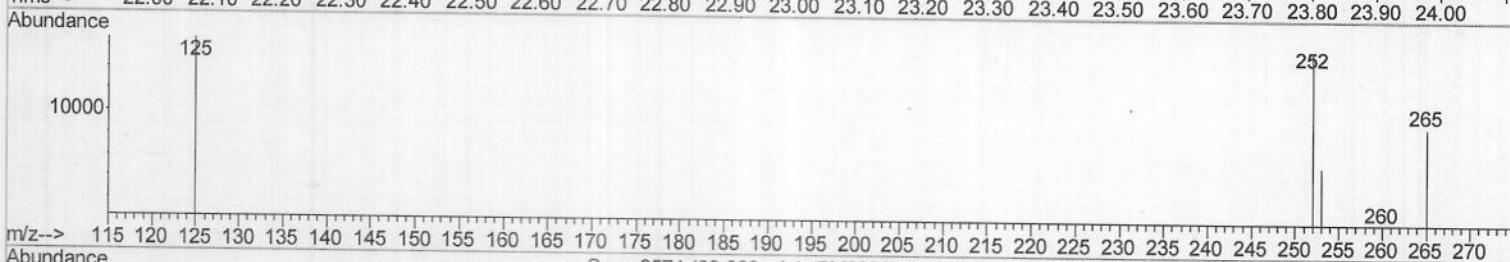
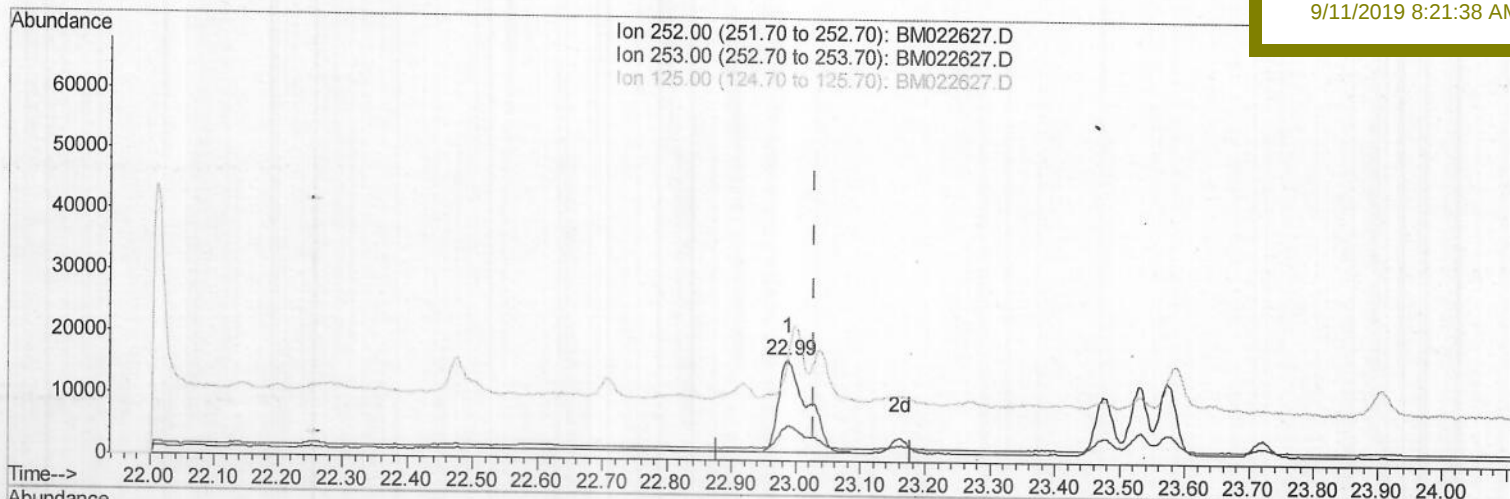
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\  
 Data File : BM022627.D  
 Acq On : 10 Sep 2019 19:35  
 Operator : HP/JU  
 Sample : K4708-05  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 10 20:10:34 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 10 15:06:45 2019  
 Response via : Initial Calibration

**Instrument :**  
 BNA\_M  
**ClientSampleId :**  
 CB5Q2

**Manual Integrations**  
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 9/11/2019 8:21:38 AM



(22) Benzo(k)fluoranthene  
 22.987min (-0.041) 0.15ng/ul  
 response 46285

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 24.40 | 34.00#  |
| 125.00 | 14.00 | 102.51# |
| 0.00   | 0.00  | 0.00    |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM091019\  
 Data File : BM022627.D  
 Acq On : 10 Sep 2019 19:35  
 Operator : HP/JU  
 Sample : K4708-05  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5Q2

Quant Time: Sep 10 20:12:15 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM091019.M  
 Quant Title : ASP-BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 10 15:06:45 2019  
 Response via : Initial Calibration

Manual Integrations  
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 9/11/2019 8:21:38 AM

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev (Min) |
|---------------------------|-------|------|----------|------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 17291    | 0.40 | ng/ul | 0.00      |
| 2) Naphthalene-d8         | 10.64 | 136  | 71277    | 0.40 | ng/ul | 0.00      |
| 6) Acenaphthene-d10       | 14.48 | 164  | 37548    | 0.40 | ng/ul | 0.00      |
| 10) Phenanthrene-d10      | 17.21 | 188  | 80543m   | 0.40 | ng/ul | 0.00      |
| 16) Chrysene-d12          | 21.39 | 240  | 65993m   | 0.40 | ng/ul | 0.00      |
| 20) Perylene-d12          | 23.67 | 264  | 71490    | 0.40 | ng/ul | 0.00      |

|                             |       |     |        |      |       |      |
|-----------------------------|-------|-----|--------|------|-------|------|
| System Monitoring Compounds |       |     |        |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.23 | 152 | 35305  | 0.30 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.24 | 212 | 69138m | 0.31 | ng/ul | 0.00 |

|                            |       |     |        |       |        |    |
|----------------------------|-------|-----|--------|-------|--------|----|
| Target Compounds           |       |     |        |       |        |    |
| 12) Phenanthrene           | 17.25 | 178 | 17161m | 0.067 | ng/ul  |    |
| 15) Fluoranthene           | 19.27 | 202 | 41562m | 0.150 | ng/ul  |    |
| 17) Pyrene                 | 19.63 | 202 | 40097m | 0.134 | ng/ul  |    |
| 18) Benzo(a)anthracene     | 21.37 | 228 | 18198  | 0.072 | ng/ul  | 95 |
| 19) Chrysene               | 21.43 | 228 | 24358  | 0.092 | ng/ul  | 94 |
| 21) Benzo(b)fluoranthene   | 22.99 | 252 | 34928m | 0.112 | ng/ul  |    |
| 22) Benzo(k)fluoranthene   | 23.03 | 252 | 11839m | 0.037 | ng/ul  |    |
| 23) Benzo(a)pyrene         | 23.57 | 252 | 21087  | 0.078 | ng/ul# | 10 |
| 24) Indeno(1,2,3-cd)pyrene | 25.99 | 276 | 17900  | 0.054 | ng/ul# | 90 |
| 26) Benzo(g,h,i)perylene   | 26.70 | 276 | 18446  | 0.070 | ng/ul# | 82 |

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