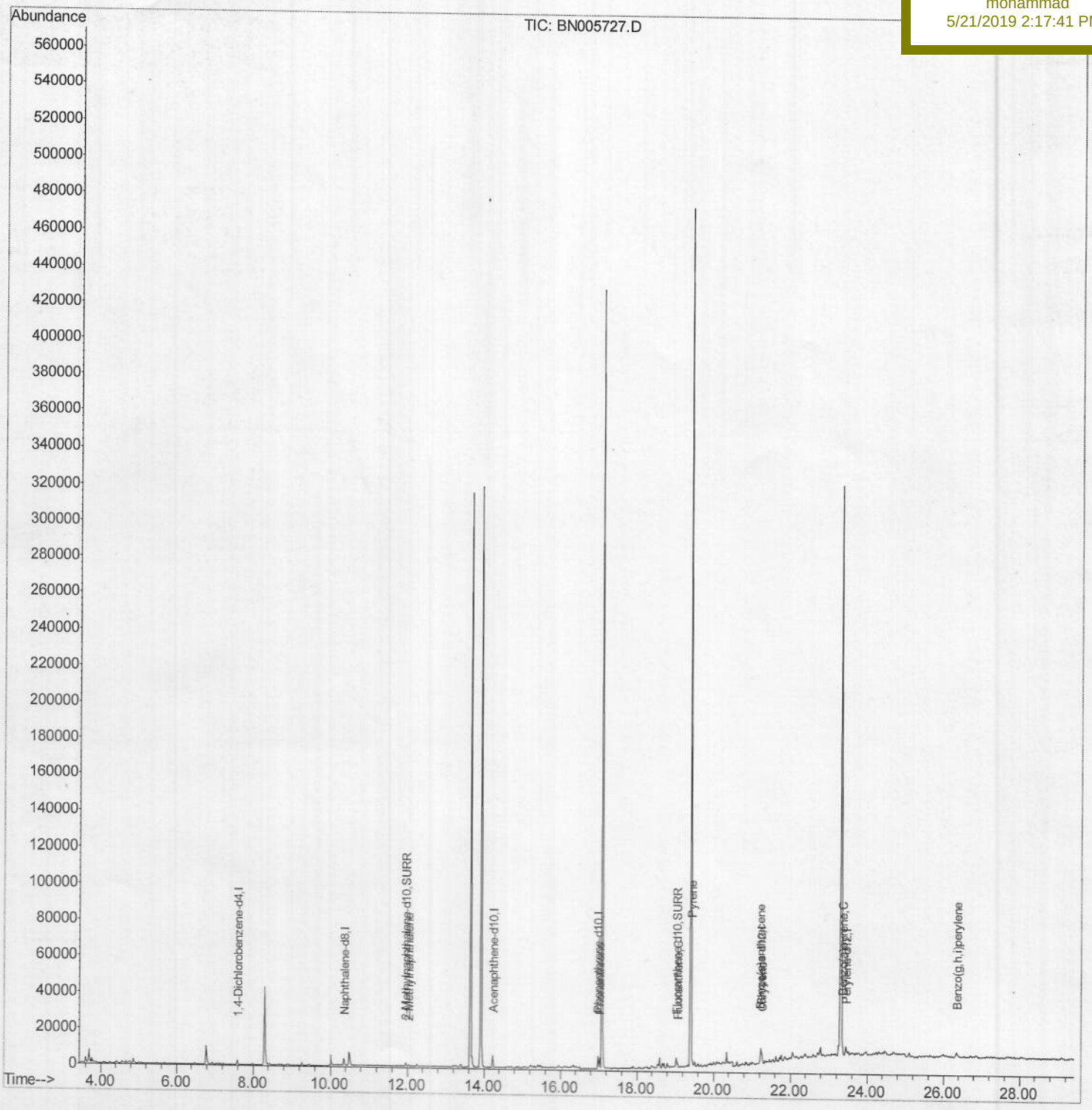
Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:47:06 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM



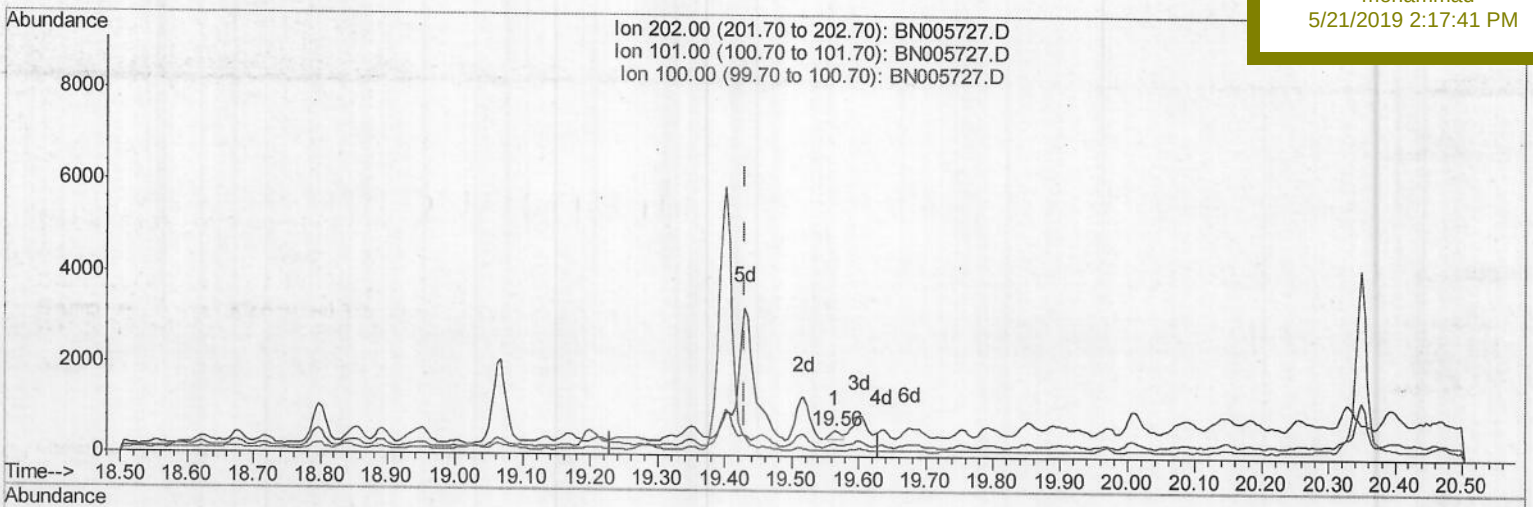
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

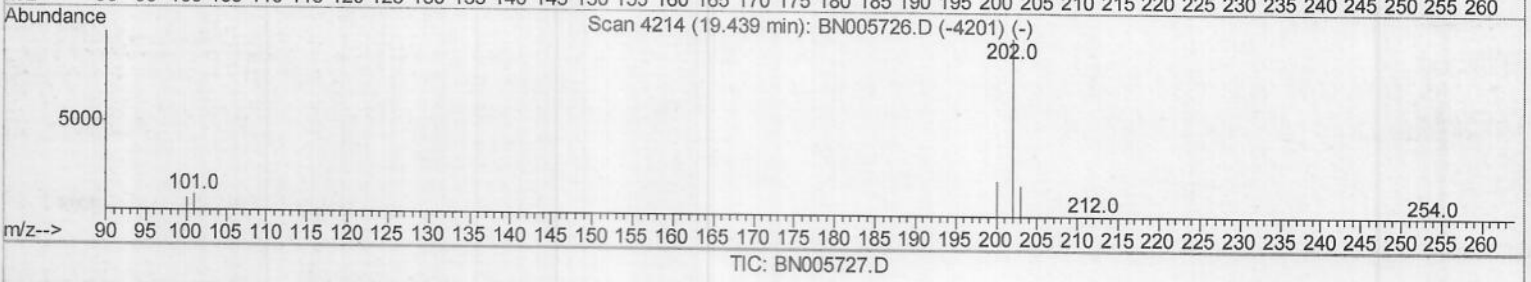
Quant Time: May 22 02:35:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 04:47:07 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM








(17) Pyrene

19.564min (+0.135) 0.40ng/ul

response 228

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 10.60 | 45.83# |
| 100.00 | 8.60 | 23.27# |
| 0.00 | 0.00 | 0.00 |

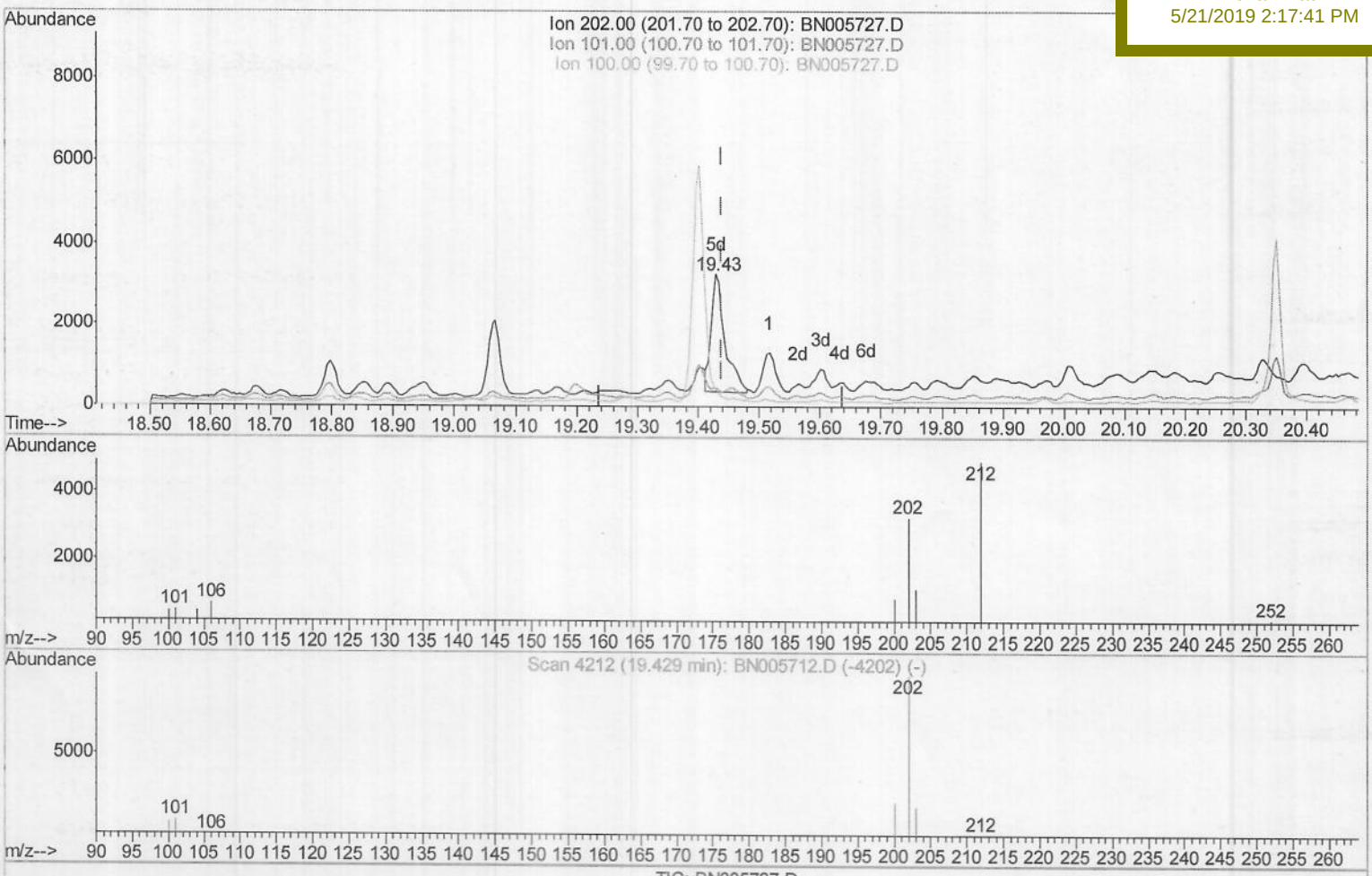
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:44:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(17) Pyrene

19.429min (-0.009) 0.20ng/ul m ) JU 05/22/19

response 4582

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 10.60 | 14.09# |
| 100.00 | 8.60 | 12.92# |
| 0.00 | 0.00 | 0.00 |

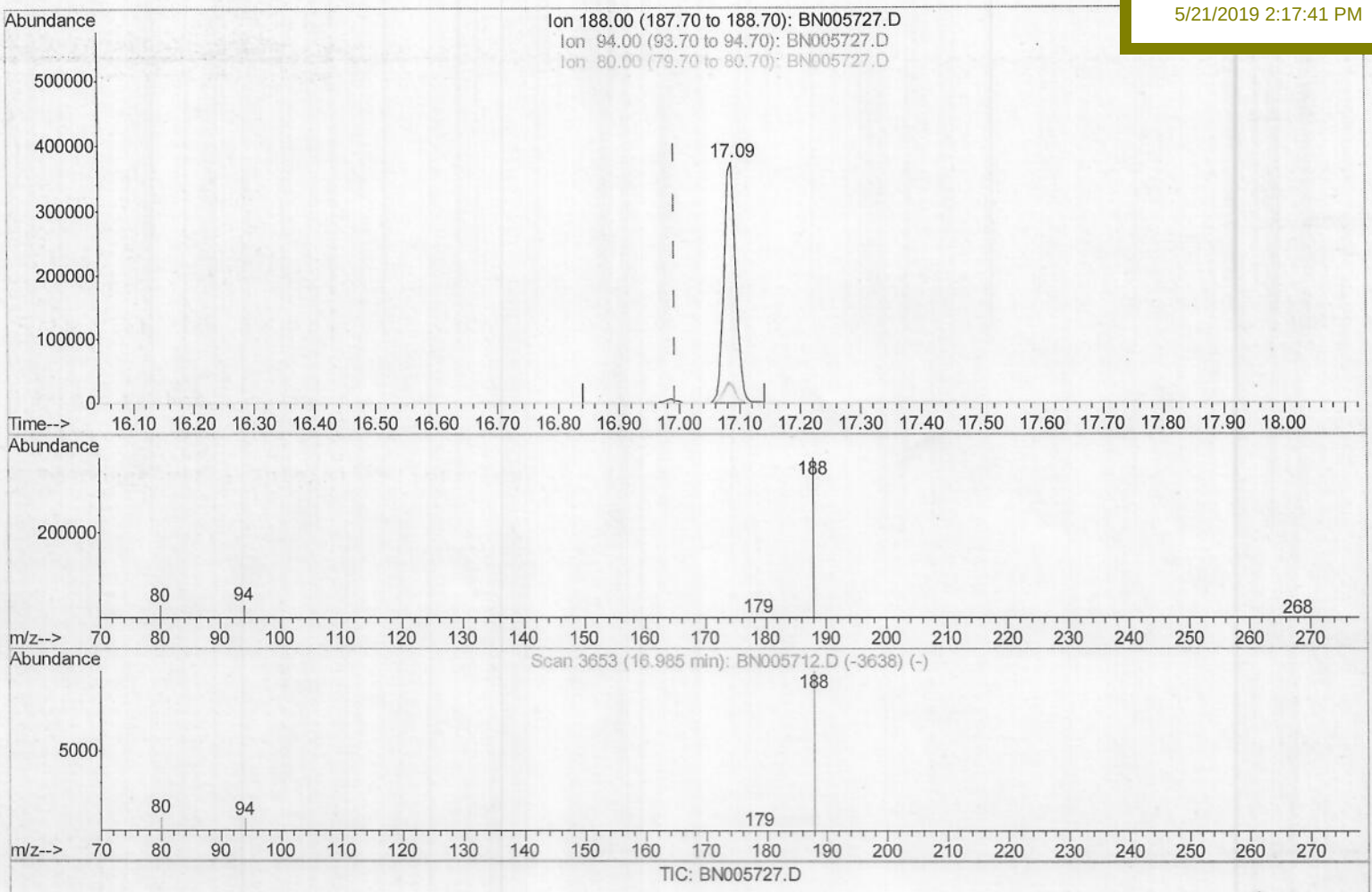
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:39:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM







TIC: BN005727.D

(10) Phenanthrene-d10 (I)

17.086min (+0.093) 0.40ng/ul

response 515900

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 9.40 | 7.87 |
| 80.00 | 9.80 | 7.23# |
| 0.00 | 0.00 | 0.00 |

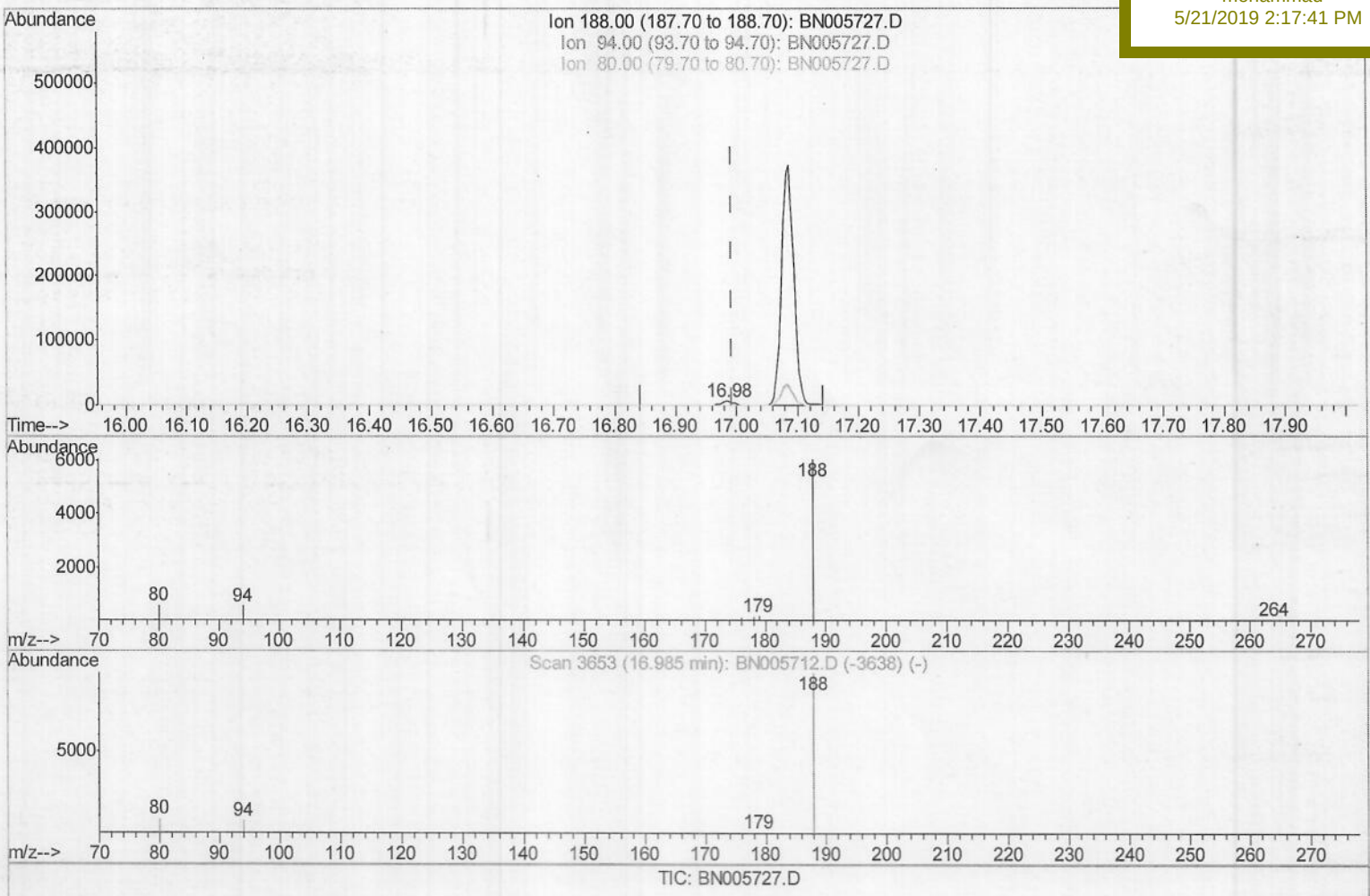
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:39:26 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(10) Phenanthrene-d10 (I)

16.985min (-0.008) 0.40ng/ul m JJV 05/22/19

response 8793

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 9.40 | 9.40 |
| 80.00 | 9.80 | 9.83 |
| 0.00 | 0.00 | 0.00 |

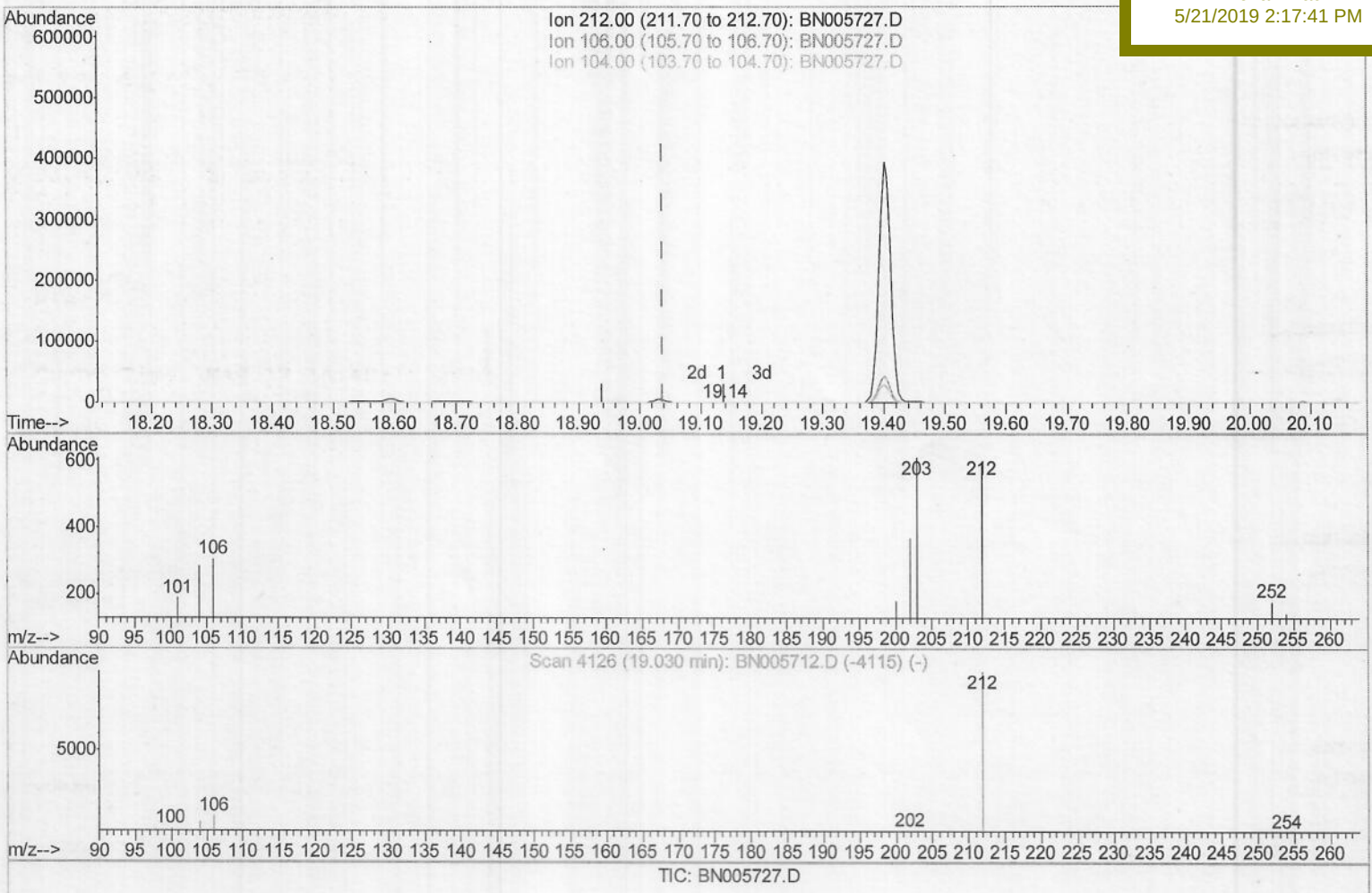
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:40:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(14) Fluoranthene-d10 (SURR)

19.137min (+0.098) 0.03ng/ul

response 837

| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 100 |
| 106.00 | 10.80 | 9.68 |
| 104.00 | 6.20 | 25.93# |
| 0.00 | 0.00 | 0.00 |

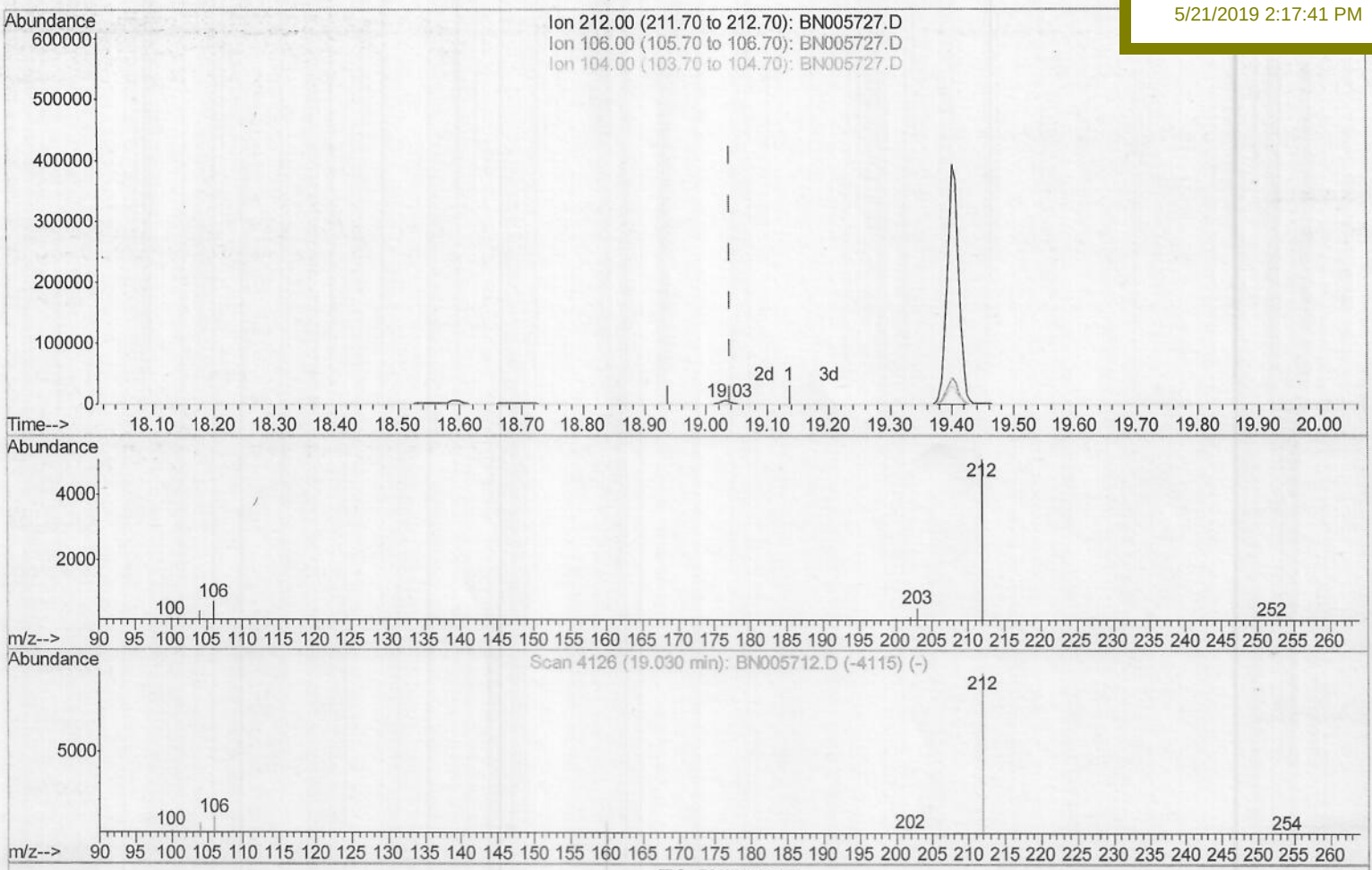
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:40:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(14) Fluoranthene-d10 (SURR)

19.034min (-0.005) 0.26ng/ul m ) JU05/22/19

response 7199

| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 100 |
| 106.00 | 10.80 | 1.13# |
| 104.00 | 6.20 | 3.01# |
| 0.00 | 0.00 | 0.00 |

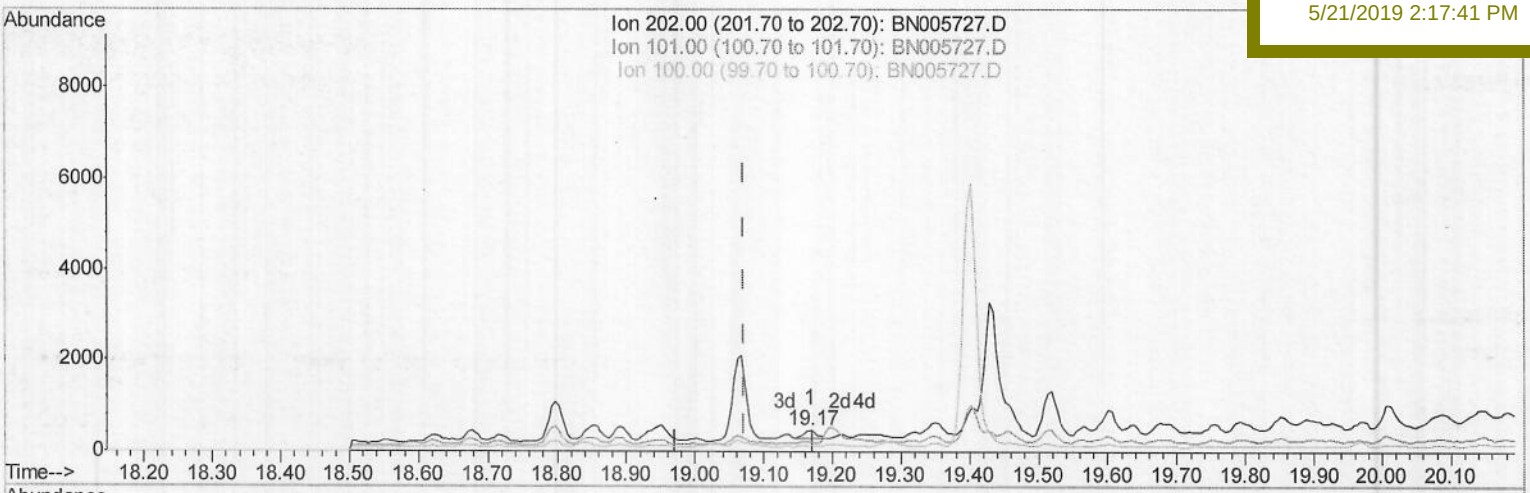
Quantitation Report (Qedit)

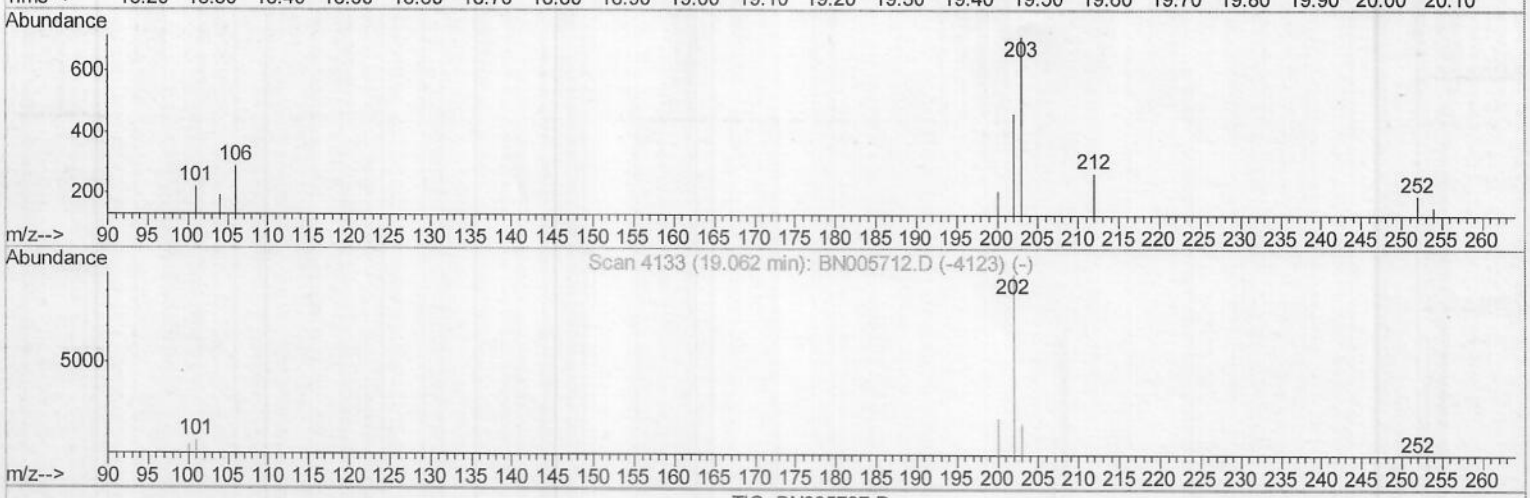
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:40:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM







TIC: BN005727.D

(15) Fluoranthene (C)

19.169min (+0.098) 0.01ng/ul

response 239

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 9.40 | 47.63# |
| 100.00 | 7.10 | 27.59# |
| 0.00 | 0.00 | 0.00 |

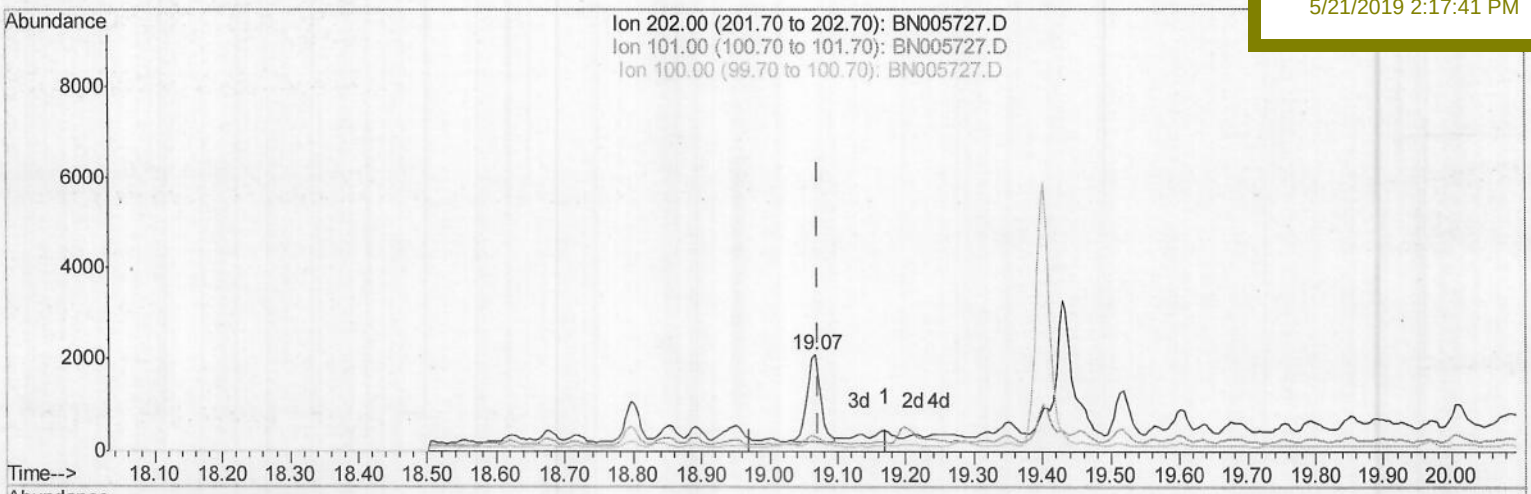
Quantitation Report (Qedit)

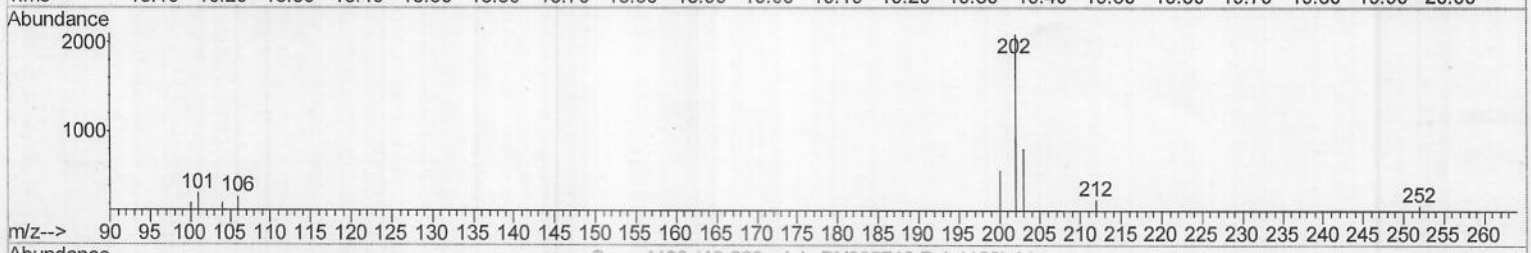
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

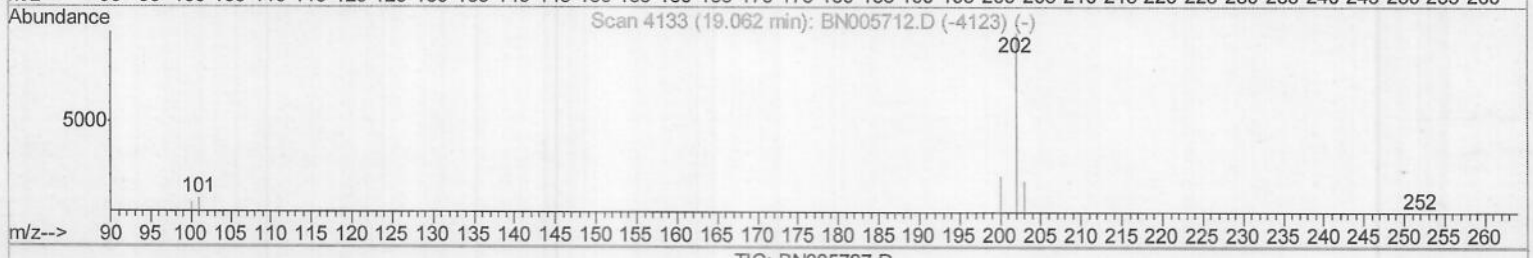
Quant Time: May 17 14:40:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(15) Fluoranthene (C)

19.067min (-0.005) 0.08ng/ul m )JU05/22/19

response 2603

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 9.40 | 15.20 |
| 100.00 | 7.10 | 10.20 |
| 0.00 | 0.00 | 0.00 |

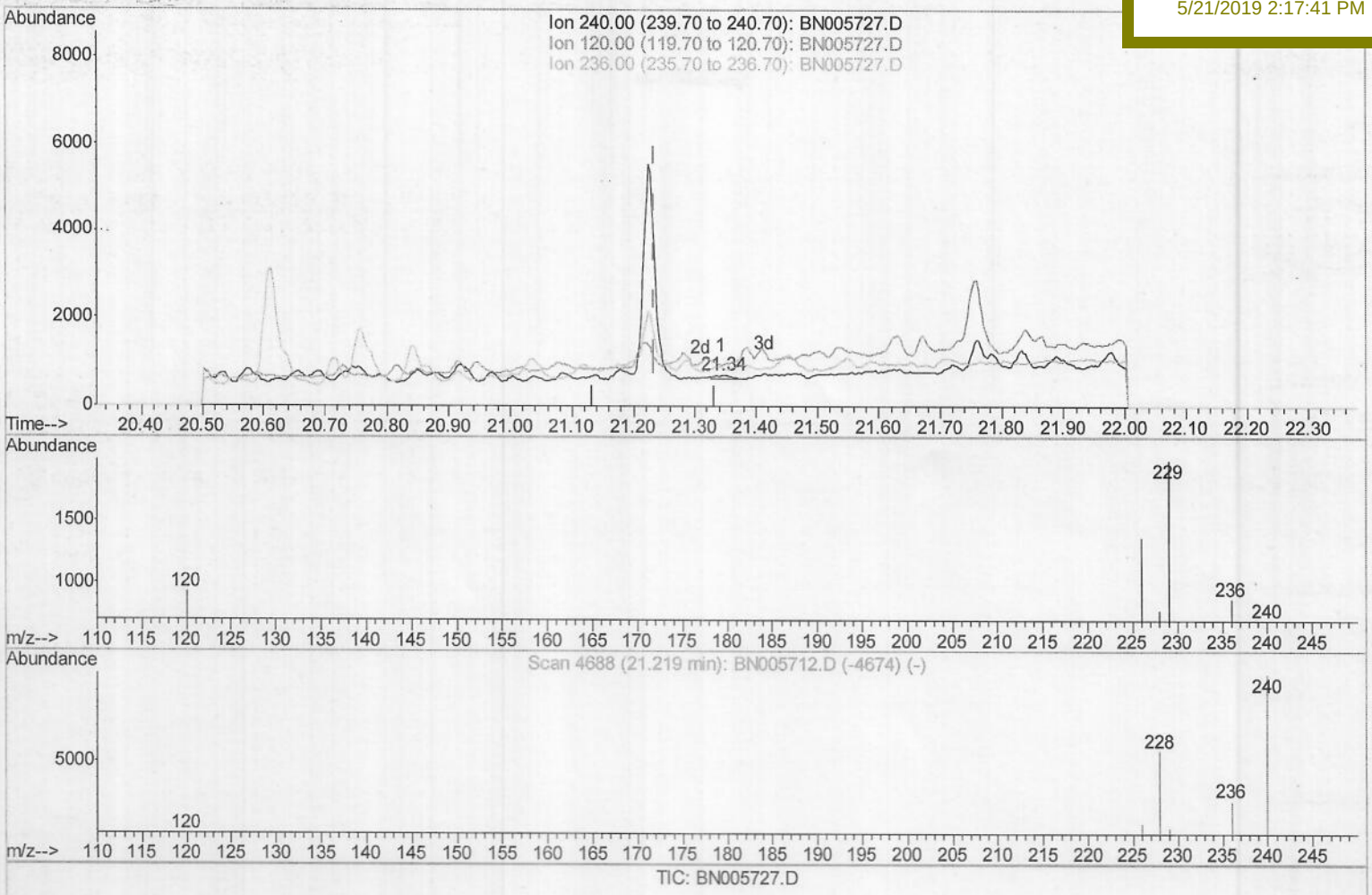
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:40:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




(16) Chrysene-d12 (I)

21.344min (+0.111) 0.40ng/ul

response 154

| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 100 |
| 120.00 | 11.90 | 130.78# |
| 236.00 | 28.00 | 123.69# |
| 0.00 | 0.00 | 0.00 |

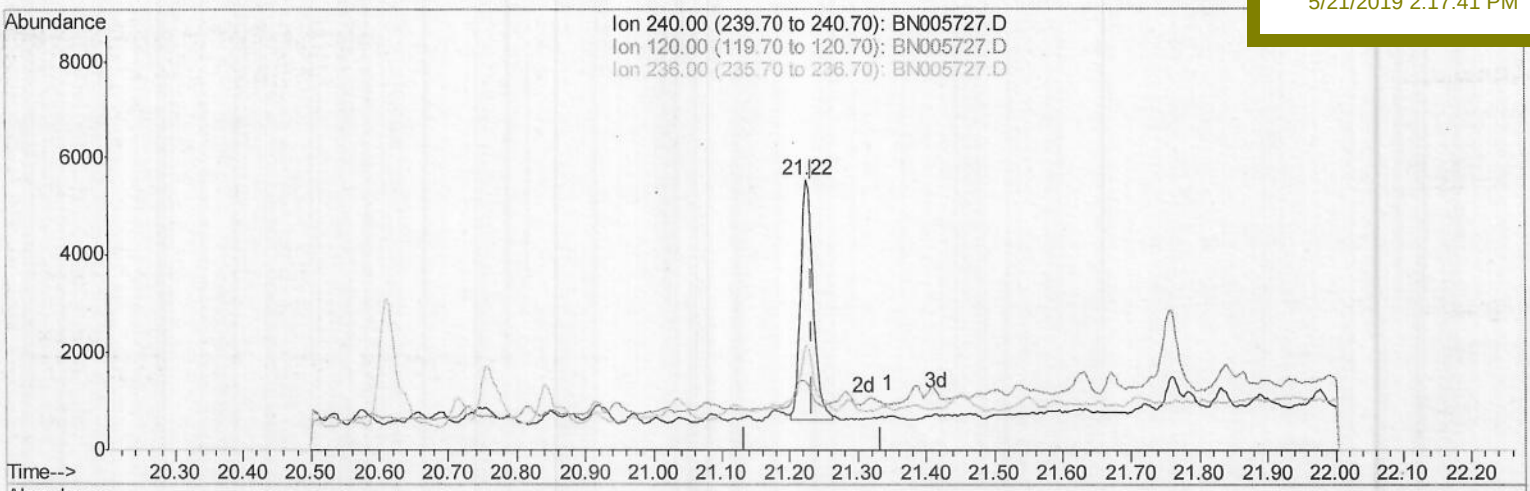
# Quantitation Report (Qedit)

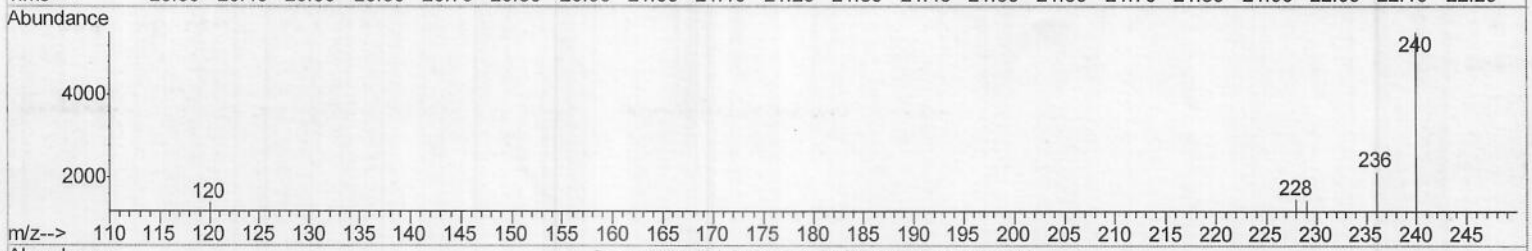
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

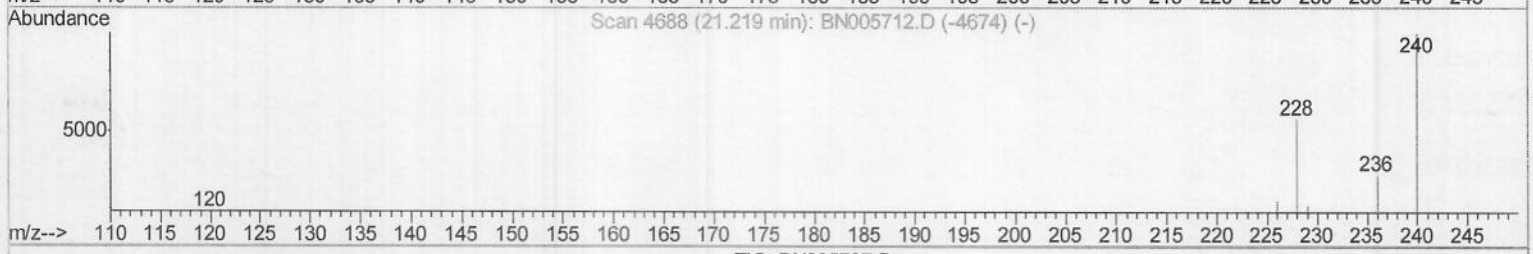
Quant Time: May 17 14:40:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(16) Chrysene-d12 (I)

21.224min (-0.009) 0.40ng/ul m ) JU 05/22/19

response 6262

| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 100 |
| 120.00 | 11.90 | 24.96# |
| 236.00 | 28.00 | 38.88# |
| 0.00 | 0.00 | 0.00 |

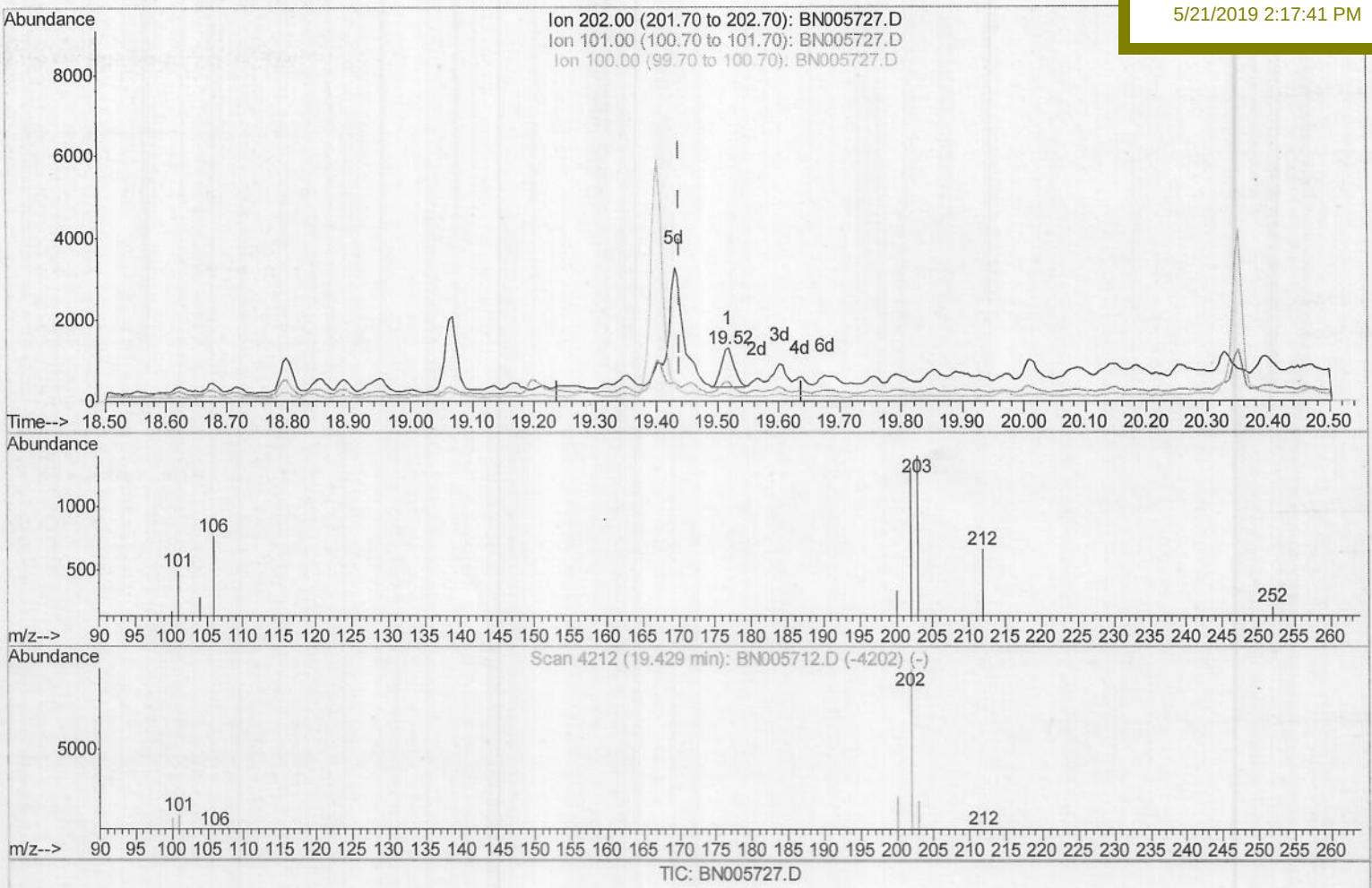
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:44:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(17) Pyrene

19.518min (+0.079) 0.06ng/ul

response 1362

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 10.60 | 37.80# |
| 100.00 | 8.60 | 13.39# |
| 0.00 | 0.00 | 0.00 |

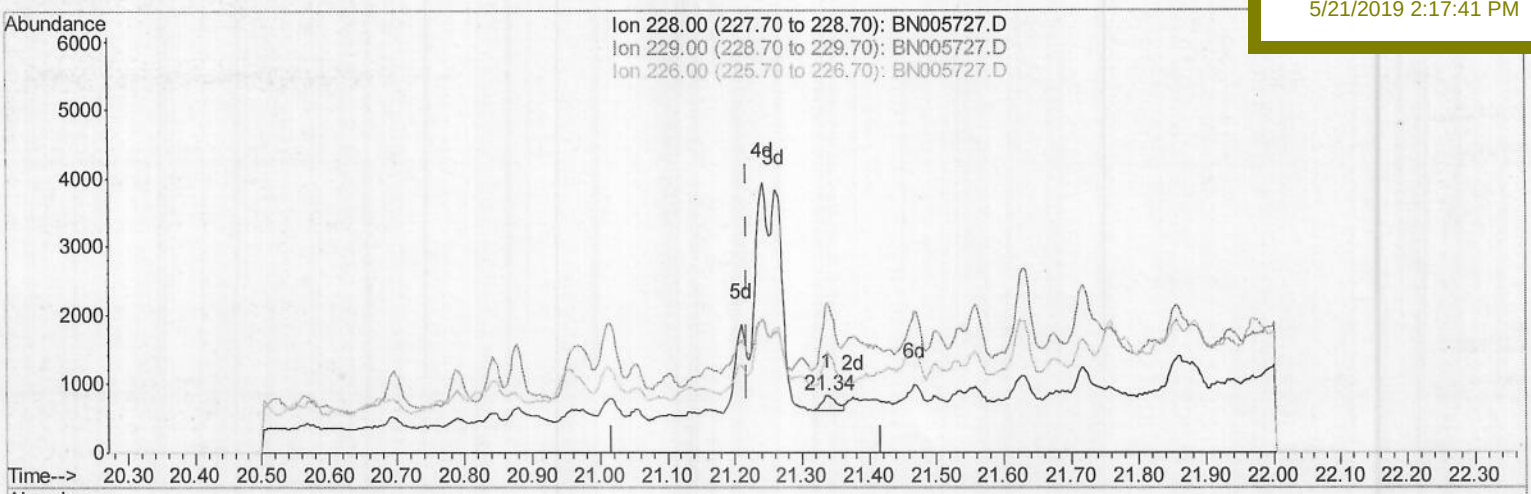
# Quantitation Report (Qedit)

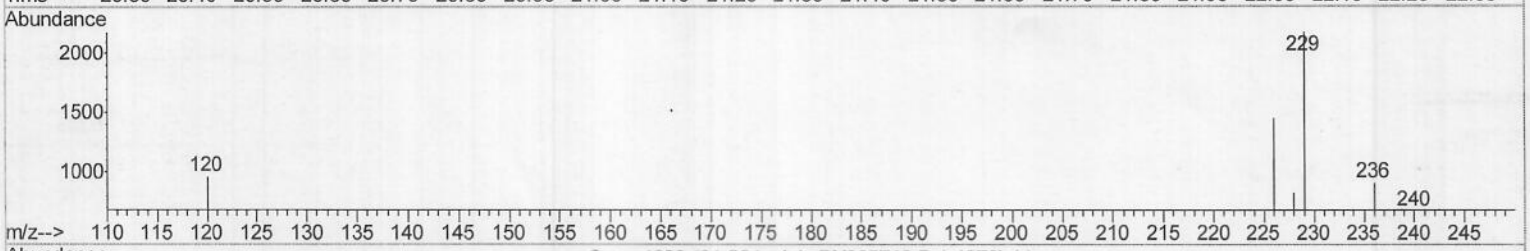
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

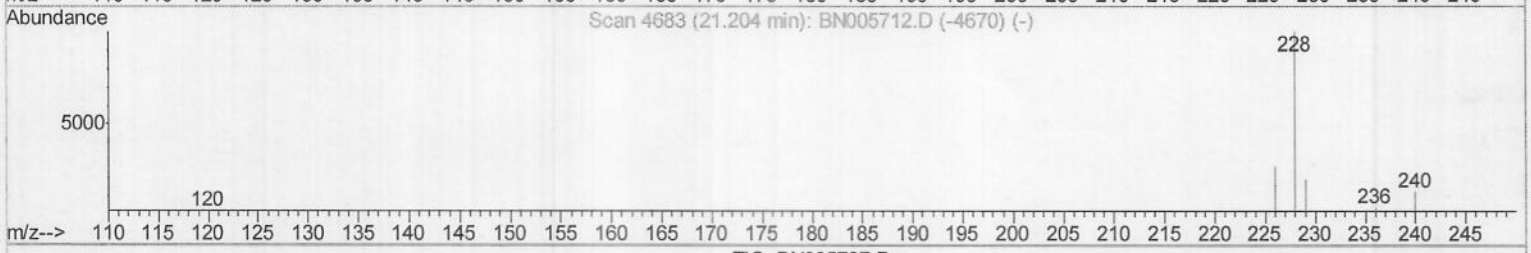
Quant Time: May 17 14:44:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(18) Benzo(a)anthracene

21.338min (+0.120) 0.02ng/ul

response 335

| Ion | Exp% | Act% |
|---|---|---|
| 228.00 | 100 | 100 |
| 229.00 | 19.80 | 262.92# |
| 226.00 | 27.10 | 175.48# |
| 0.00 | 0.00 | 0.00 |

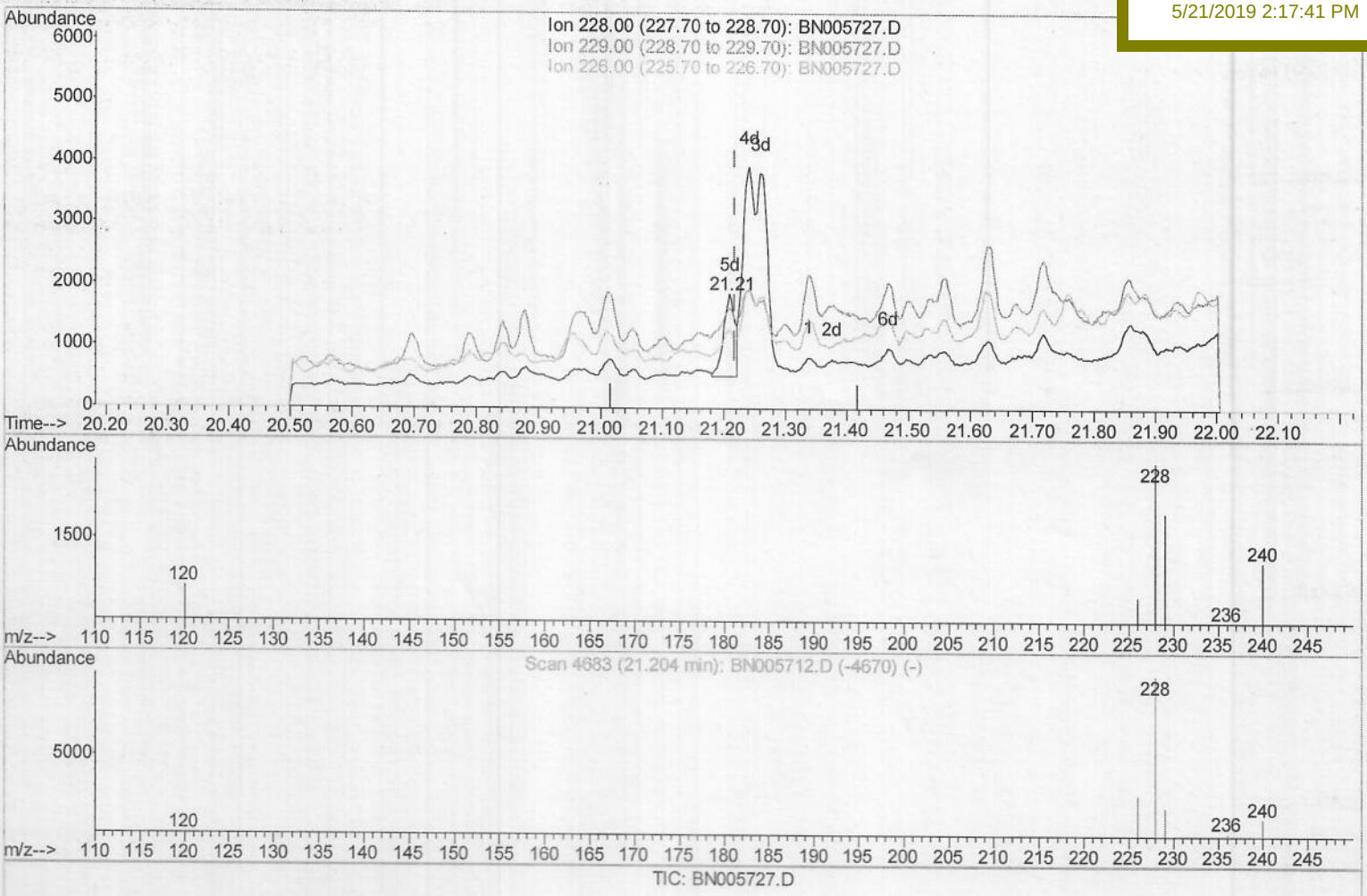
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:44:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




(18) Benzo(a)anthracene

21.210min (-0.009) 0.08ng/ul m) 5005/22 11 9

response 1691

| Ion | Exp% | Act% |
|---|---|---|
| 228.00 | 100 | 100 |
| 229.00 | 19.80 | 87.81# |
| 226.00 | 27.10 | 67.50# |
| 0.00 | 0.00 | 0.00 |

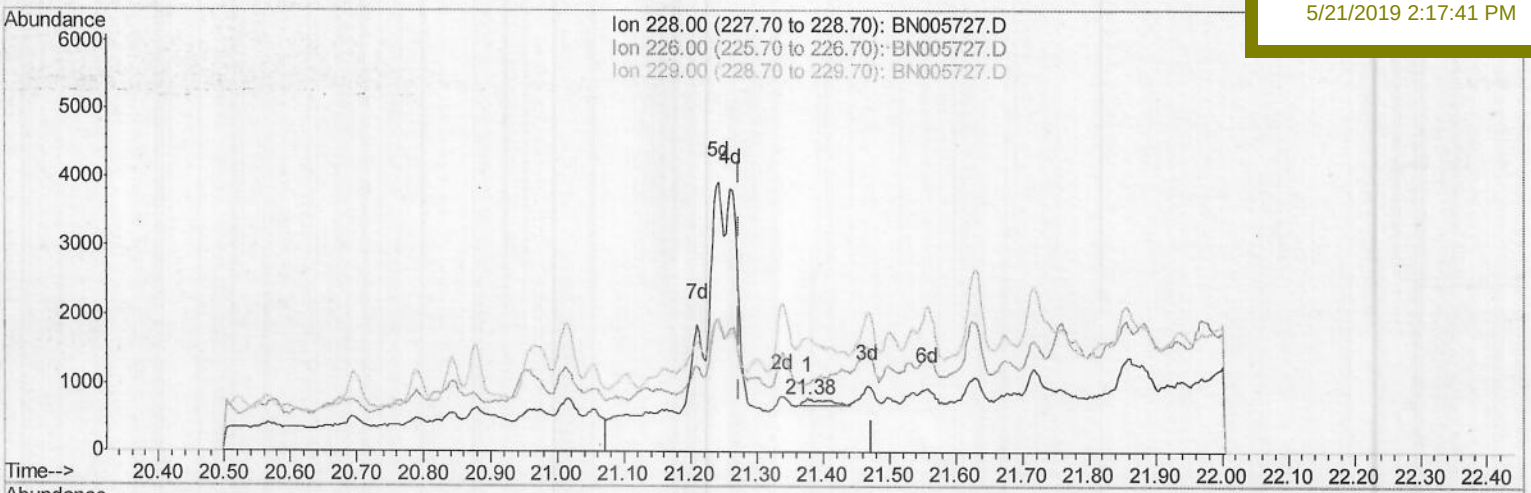
Quantitation Report (Qedit)

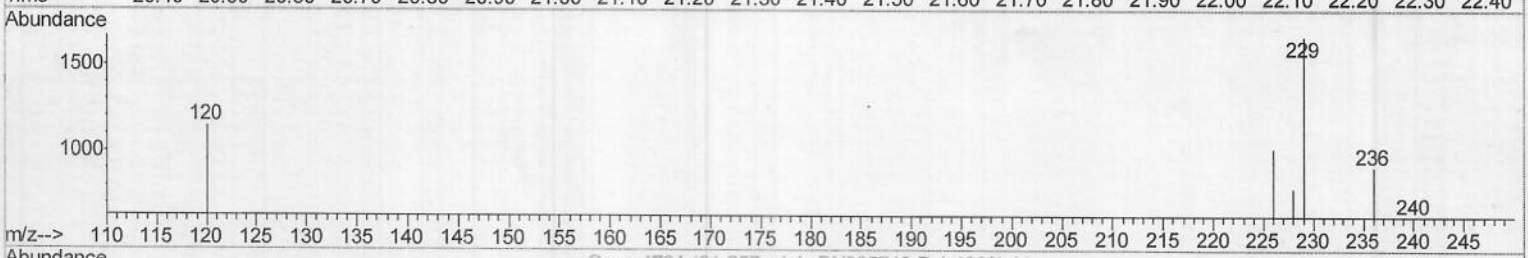
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

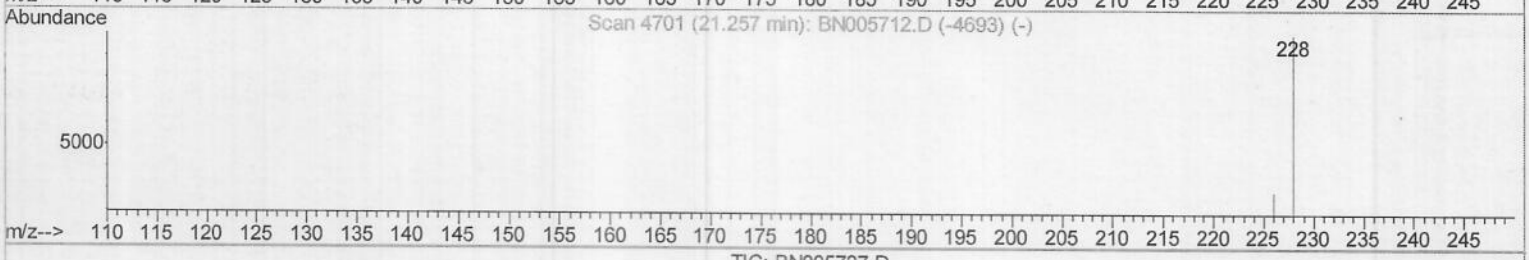
Quant Time: May 17 14:44:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM




TIC: BN005727.D

(19) Chrysene

21.376min (+0.102) 0.01ng/ul

response 270

| Ion | Exp% | Act% |
|---|---|---|
| 228.00 | 100 | 100 |
| 226.00 | 29.00 | 128.59# |
| 229.00 | 20.00 | 210.71# |
| 0.00 | 0.00 | 0.00 |

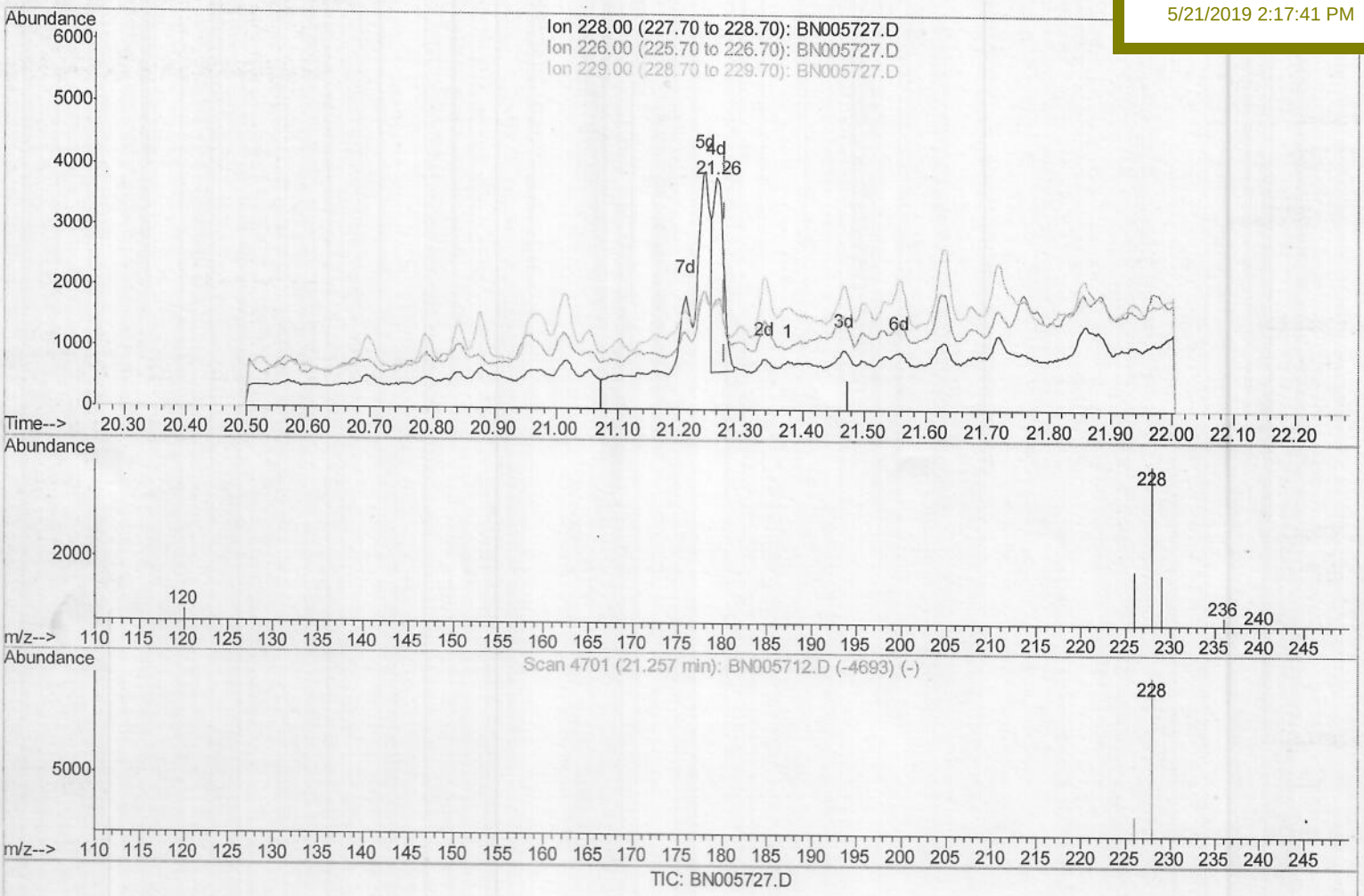
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:44:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM







TIC: BN005727.D

(19) Chrysene

21.260min (-0.015) 0.15ng/ul m JJU05/22/19

response 3942

| Ion | Exp% | Act% |
|---|---|---|
| 228.00 | 100 | 100 |
| 226.00 | 29.00 | 47.26# |
| 229.00 | 20.00 | 45.40# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051719\
Data File : BN005727.D
Acq On : 17 May 2019 13:12
Operator : JU/SJ
Sample : K2690-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:47:06 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN050719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 17 14:33:18 2019
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
A5157

**Manual Integrations APPROVED**
mohammad
5/21/2019 2:17:41 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.59 | 152 | 1282 | 0.40 | ng/ul | -0.01 |
| 2) Naphthalene-d8 | 10.35 | 136 | 5322 | 0.40 | ng/ul | -0.01 |
| 6) Acenaphthene-d10 | 14.23 | 164 | 3639 | 0.40 | ng/ul | 0.00 |
| 10) Phenanthrene-d10 | 16.98 | 188 | 8793m | 0.40 | ng/ul | 0.00 |
| 16) Chrysene-d12 | 21.22 | 240 | 6262m | 0.40 | ng/ul | 0.00 |
| 20) Perylene-d12 | 23.45 | 264 | 6657 | 0.40 | ng/ul | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 11.95 | 152 | 2486 | 0.30 | ng/ul | -0.01 |
| 14) Fluoranthene-d10 | 19.03 | 212 | 7199m | 0.26 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 5) 2-Methylnaphthalene | 12.03 | 142 | 736 | 0.077 | ng/ul | 94 |
| 12) Phenanthrene | 17.03 | 178 | 5976 | 0.249 | ng/ul | 95 |
| 15) Fluoranthene | 19.07 | 202 | 2603m | 0.078 | ng/ul | |
| 17) Pyrene | 19.43 | 202 | 4582m | 0.198 | ng/ul | |
| 18) Benzo(a)anthracene | 21.21 | 228 | 1691m | 0.078 | ng/ul | |
| 19) Chrysene | 21.26 | 228 | 3942m | 0.149 | ng/ul | |
| 23) Benzo(a)pyrene | 23.35 | 252 | 2583 | 0.115 | ng/ul# | 1 |
| 26) Benzo(g,h,i)perylene | 26.35 | 276 | 5979 | 0.280 | ng/ul# | 31 |

SJ 05/22/19

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