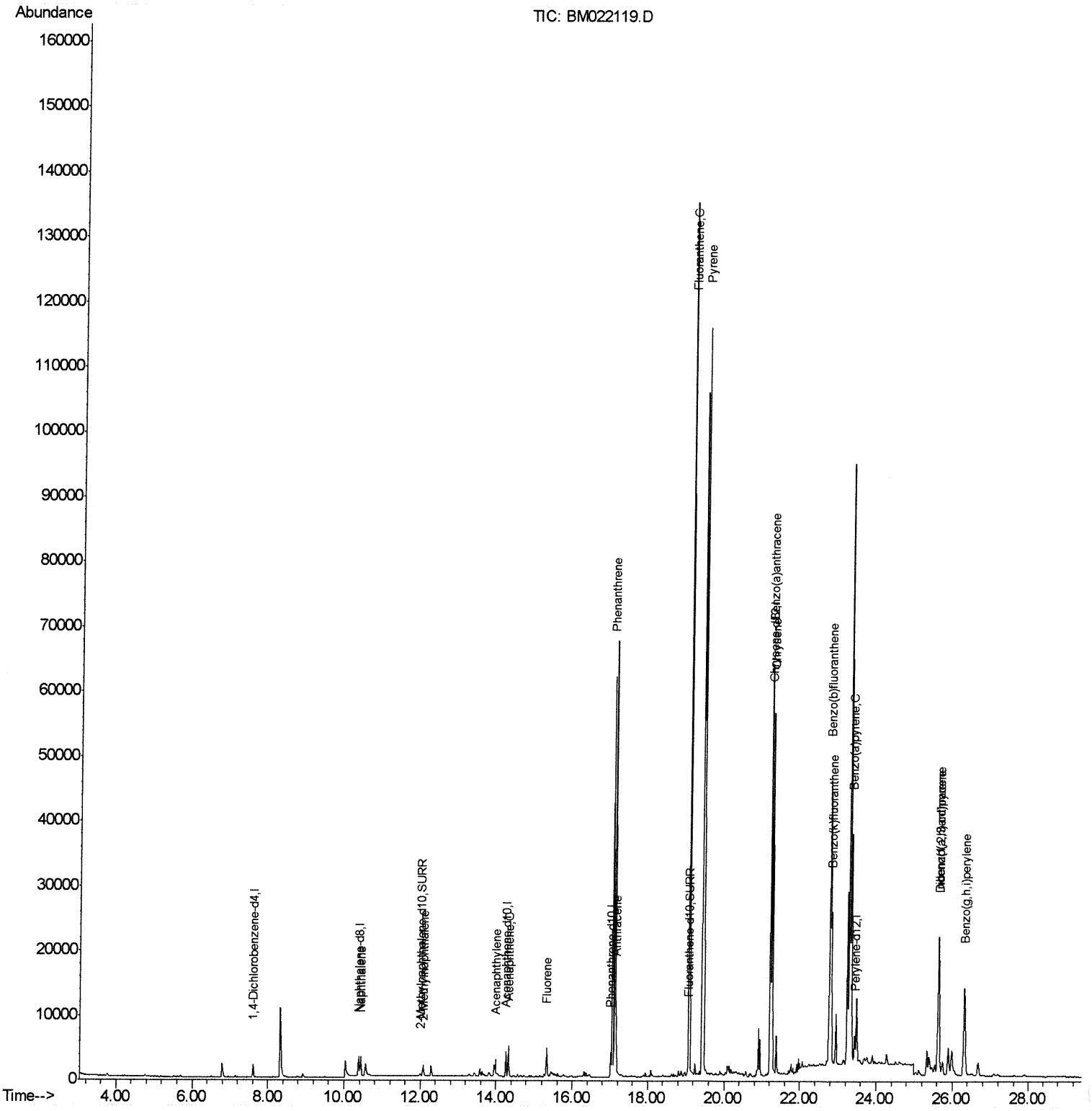
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022119.D
Acq On : 14 Aug 2019 21:53
Operator : HP/JU
Sample : K4304-05DL 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 15 11:16:51 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5N6DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:38 PM



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022119.D
Acq On : 14 Aug 2019 21:53
Operator : HP/JU
Sample : K4304-05DL 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 15 11:15:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
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ClientSampleId :
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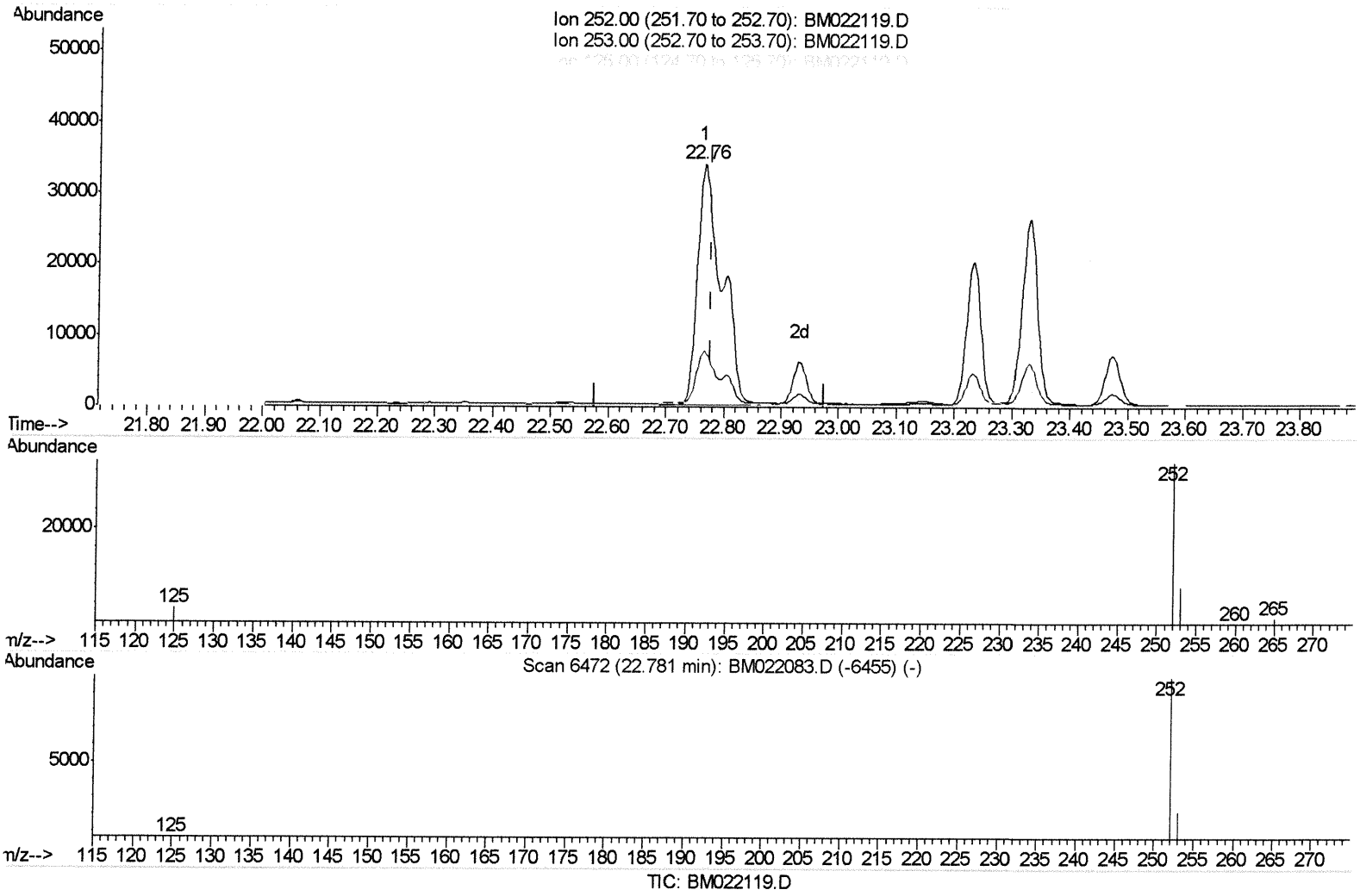
Manual Integrations APPROVED
mohammad
8/15/2019 5:09:38 PM



TIC: BM022119.D

(21) Benzo(b)fluoranthene

22.764min (-0.012) 5.75ng/ul

response 99031

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	23.02
125.00	15.50	9.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022119.D
Acq On : 14 Aug 2019 21:53
Operator : HP/JU
Sample : K4304-05DL 5X
Misc :
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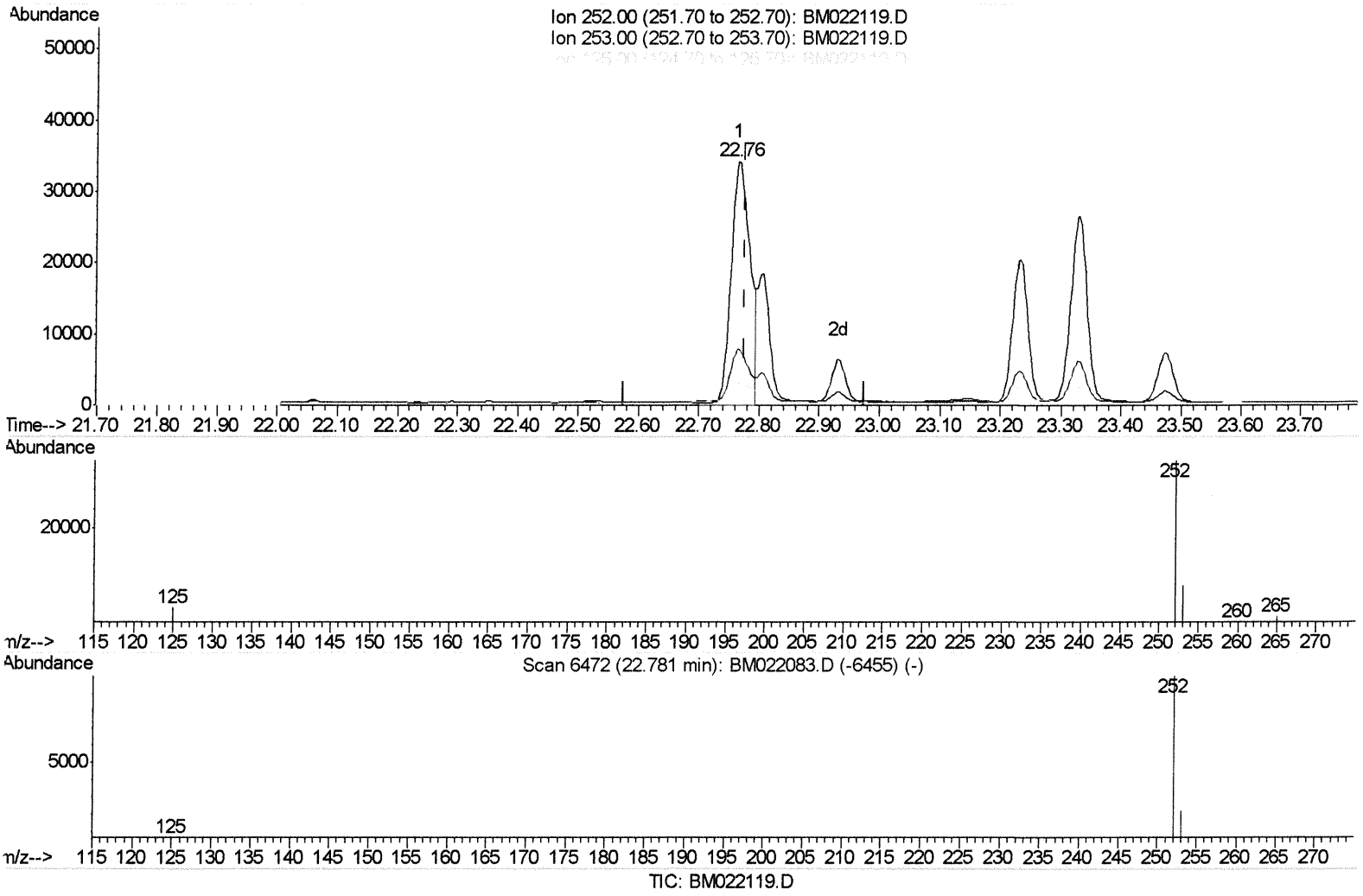
BNA_M
ClientSampleId :
CB5N6DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:38 PM



(21) Benzo(b)fluoranthene

22.764min (-0.012) 4.34ng/ul m JU 08/15/19

response 74808

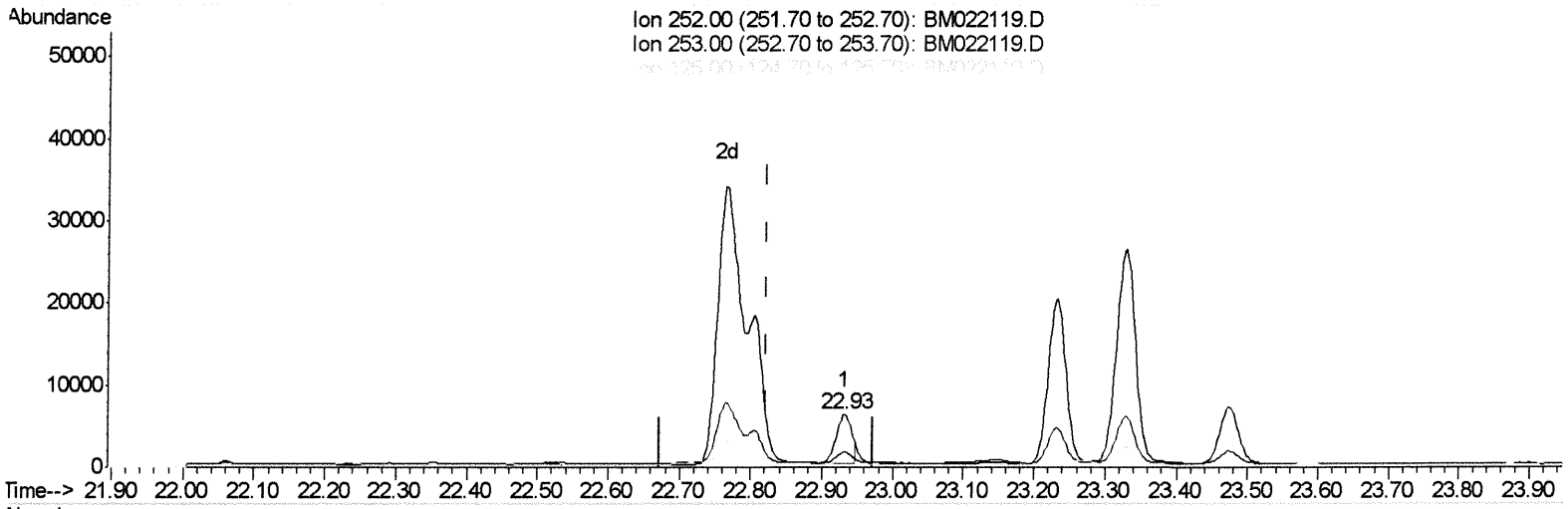
Ion	Exp%	Act%
252.00	100	100
253.00	33.70	23.02
125.00	15.50	9.04
0.00	0.00	0.00

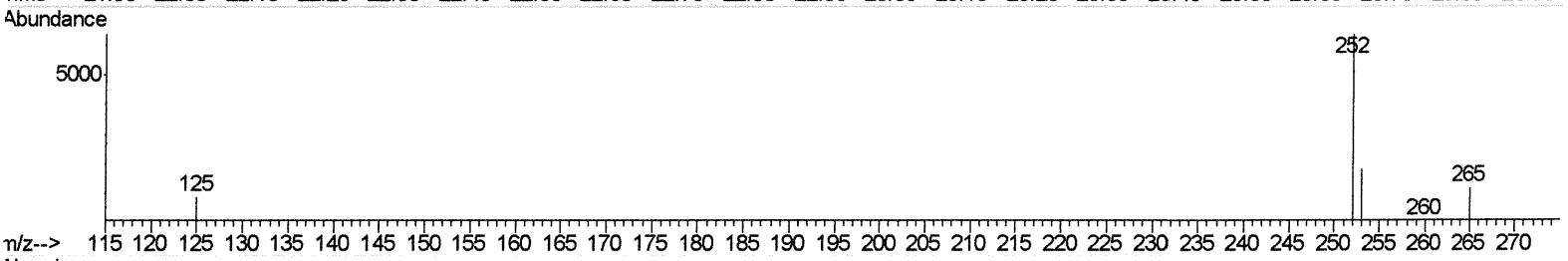
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022119.D
Acq On : 14 Aug 2019 21:53
Operator : HP/JU
Sample : K4304-05DL 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

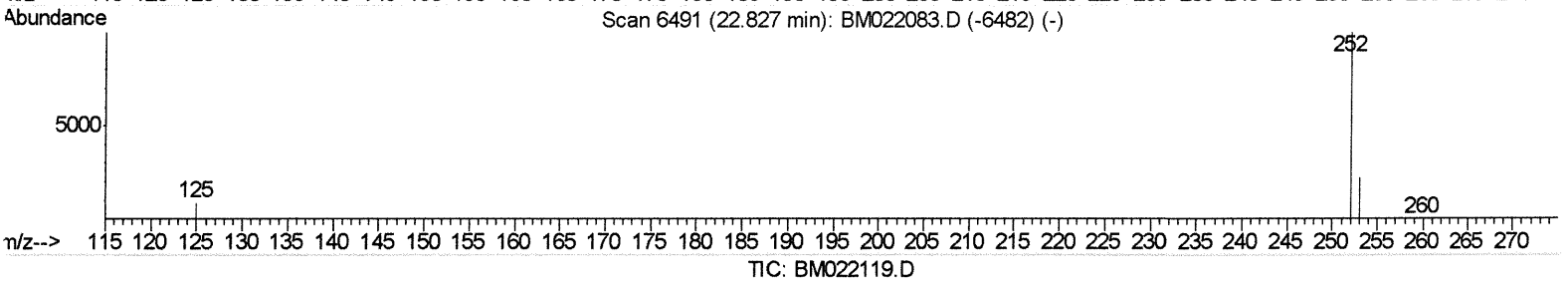
Quant Time: Aug 15 11:15:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5N6DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:38 PM







TIC: BM022119.D

(22) Benzo(k)fluoranthene

22.931min (+0.109) 0.45ng/ul

response 8738

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	28.87
125.00	15.20	14.13
0.00	0.00	0.00

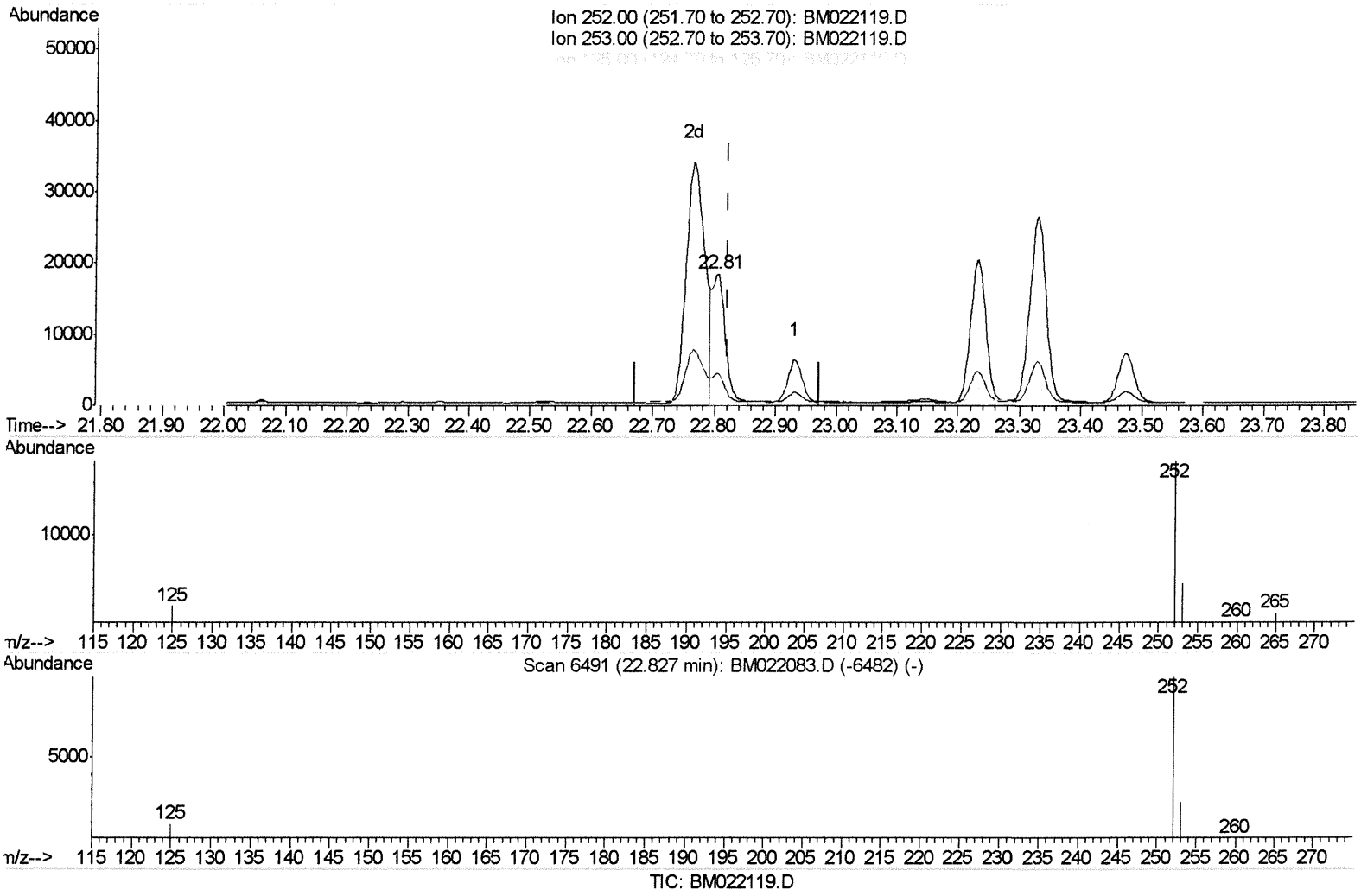
Quantification Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022119.D
Acq On : 14 Aug 2019 21:53
Operator : HP/JU
Sample : K4304-05DL 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 15 11:15:48 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
CB5N6DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:38 PM



(22) Benzo(k)fluoranthene

22.805min (-0.017) 1.51ng/ul m JU 08/15/19

response 29526

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	24.21#
125.00	15.20	10.48#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022119.D
Acq On : 14 Aug 2019 21:53
Operator : HP/JU
Sample : K4304-05DL 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 15 11:16:51 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration

Instrument : BNA_M
ClientSampleId : CB5N6DL

Manual Integrations APPROVED
mohammad
8/15/2019 5:09:38 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	1109	0.40	ng/ul	-0.01
2) Naphthalene-d8	10.38	136	4326	0.40	ng/ul	-0.03
6) Acenaphthene-d10	14.25	164	2177	0.40	ng/ul	-0.01
10) Phenanthrene-d10	17.01	188	4709	0.40	ng/ul	-0.02
16) Chrysene-d12	21.22	240	4799	0.40	ng/ul	-0.01
20) Perylene-d12	23.43	264	5109	0.40	ng/ul	-0.02
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.99	152	612	0.09	ng/ul	-0.02
14) Fluoranthene-d10	19.05	212	1424	0.09	ng/ul	-0.02
Target Compounds						Qvalue
3) Naphthalene	10.43	128	4319	0.353	ng/ul	96
5) 2-Methylnaphthalene	12.07	142	1717	0.211	ng/ul	96
7) Acenaphthylene	13.98	152	3163	0.312	ng/ul#	83
8) Acenaphthene	14.32	153	2941	0.354	ng/ul	98
9) Fluorene	15.31	166	3195	0.346	ng/ul	98
12) Phenanthrene	17.05	178	64801	4.729	ng/ul	96
13) Anthracene	17.15	178	12352	1.057	ng/ul	95
15) Fluoranthene	19.08	202	114666	6.247	ng/ul	95
17) Pyrene	19.45	202	98860	5.013	ng/ul	98
18) Benzo(a)anthracene	21.20	228	53809	3.135	ng/ul	99
19) Chrysene	21.25	228	54893	2.486	ng/ul	99
21) Benzo(b)fluoranthene	22.76	252	74808m→	4.342	ng/ul	>2 JU 08/15/19
22) Benzo(k)fluoranthene	22.81	252	29526m→	1.514	ng/ul	>J 08/15/19
23) Benzo(a)pyrene	23.33	252	48584	2.773	ng/ul#	76
24) Indeno(1,2,3-cd)pyrene	25.63	276	34008	1.626	ng/ul#	95
25) Dibenzo(a,h)anthracene	25.63	278	8914	0.527	ng/ul	94
26) Benzo(g,h,i)perylene	26.31	276	28261	1.501	ng/ul	97

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