

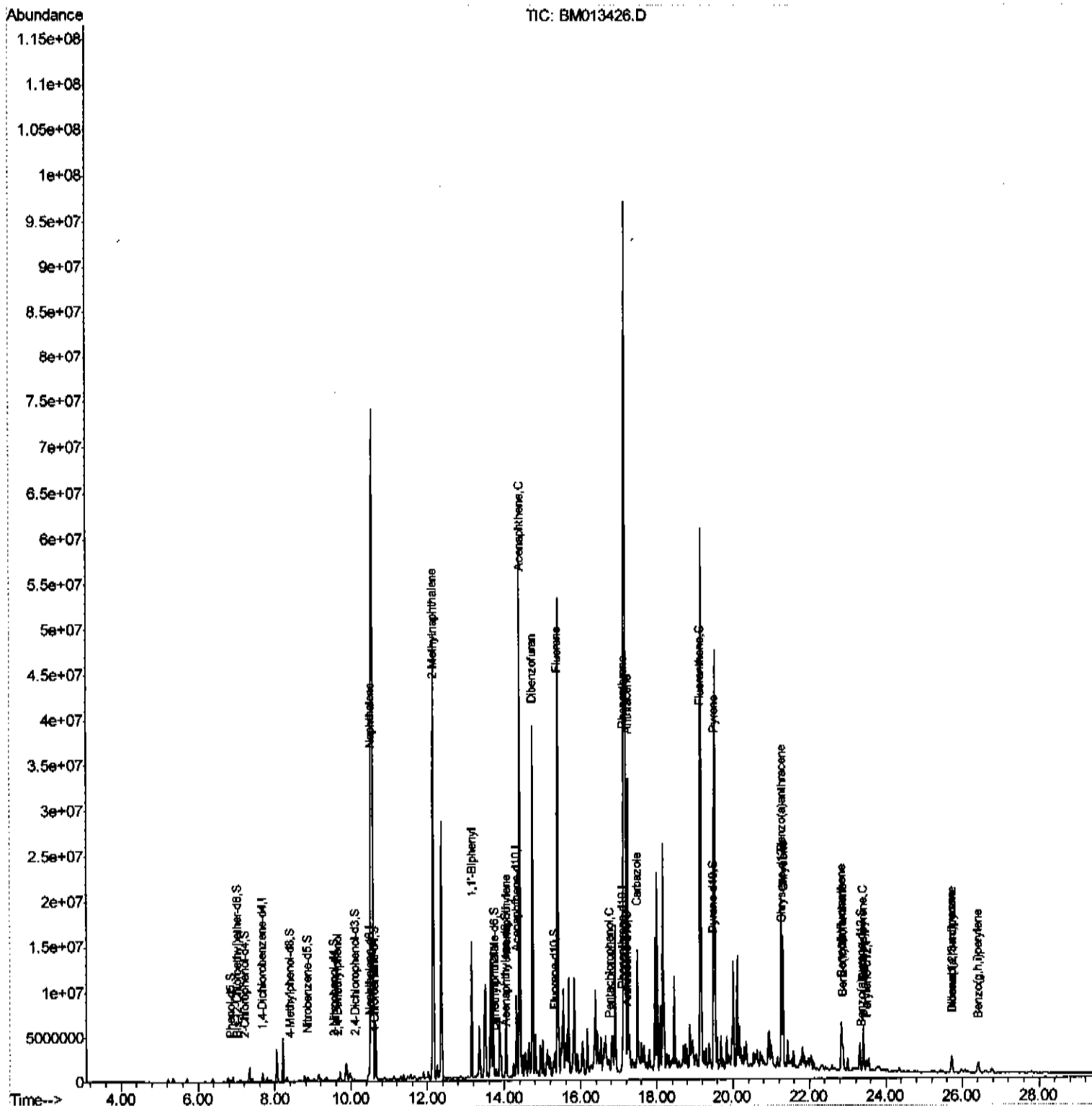
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:57:47 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



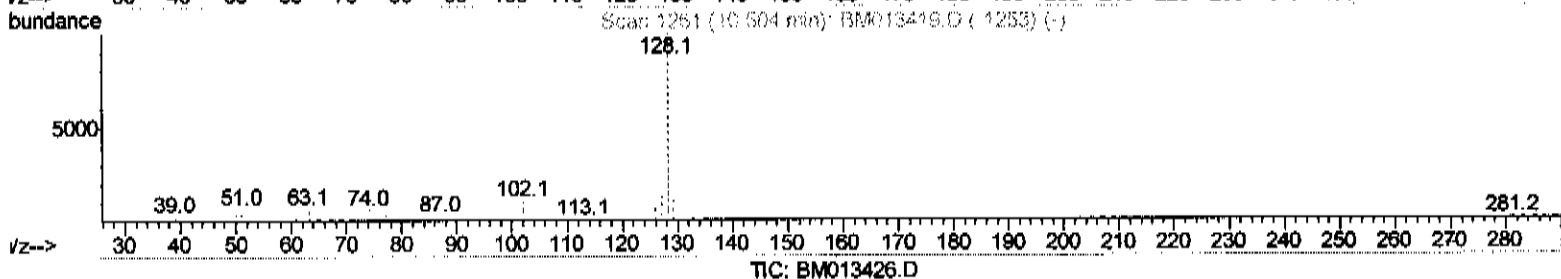
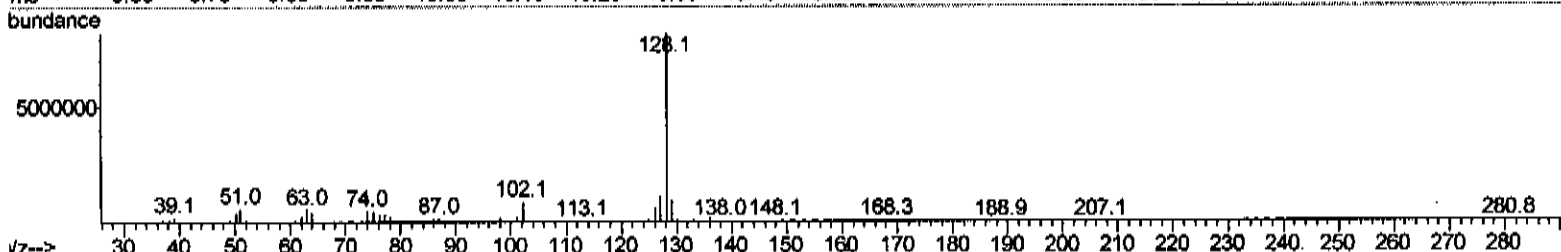
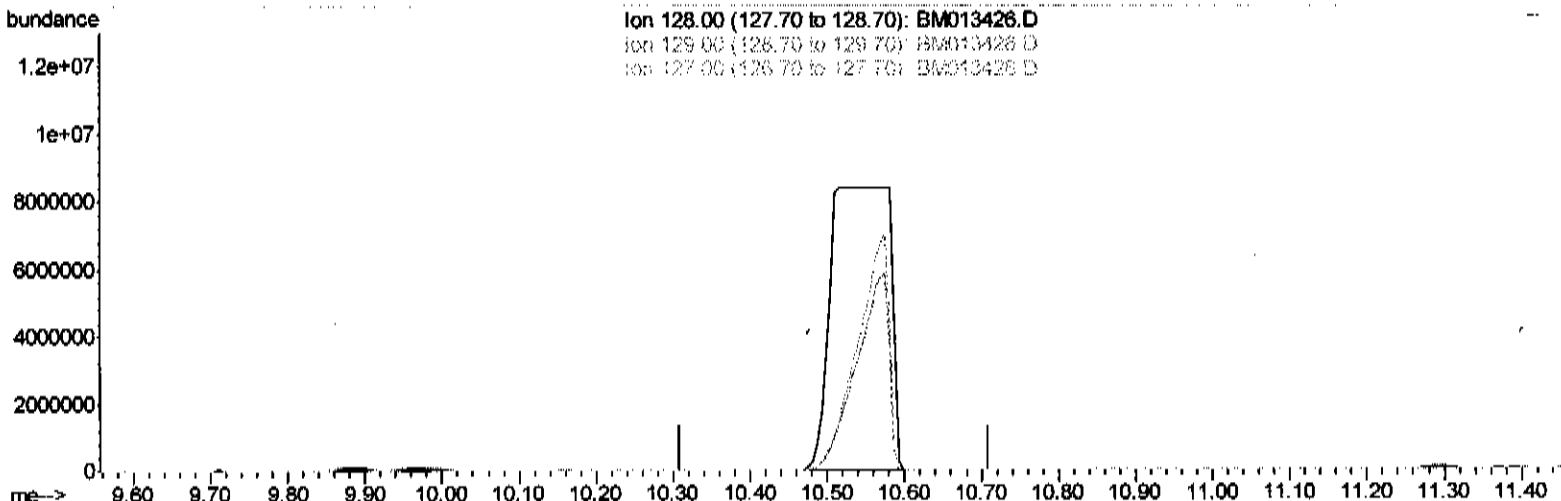
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
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Manual Integrations
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Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
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 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(28) Naphthalene

10.510min (-10.510) 0.00ng/ul

response 0

Ion	Exp%	Act%
128.00	100	0.00
129.00	11.00	0.00#
127.00	13.30	0.00#
0.00	0.00	0.00

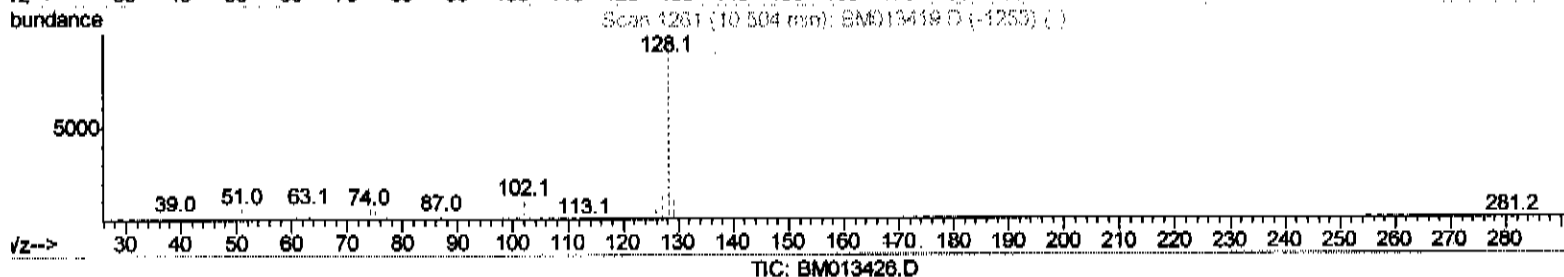
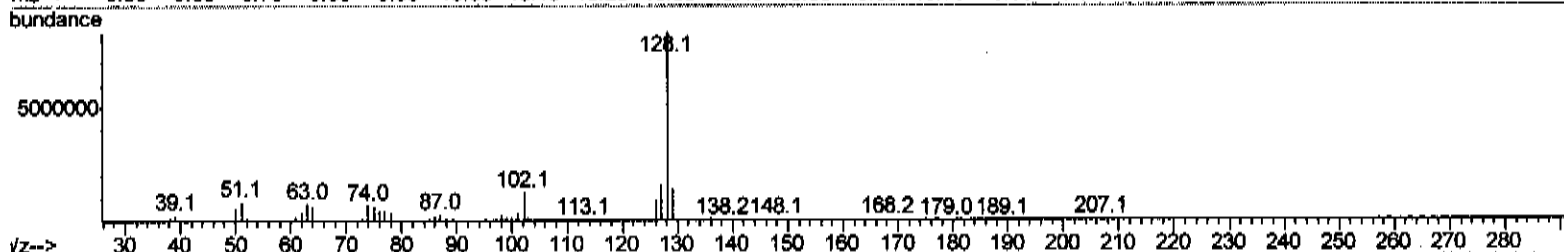
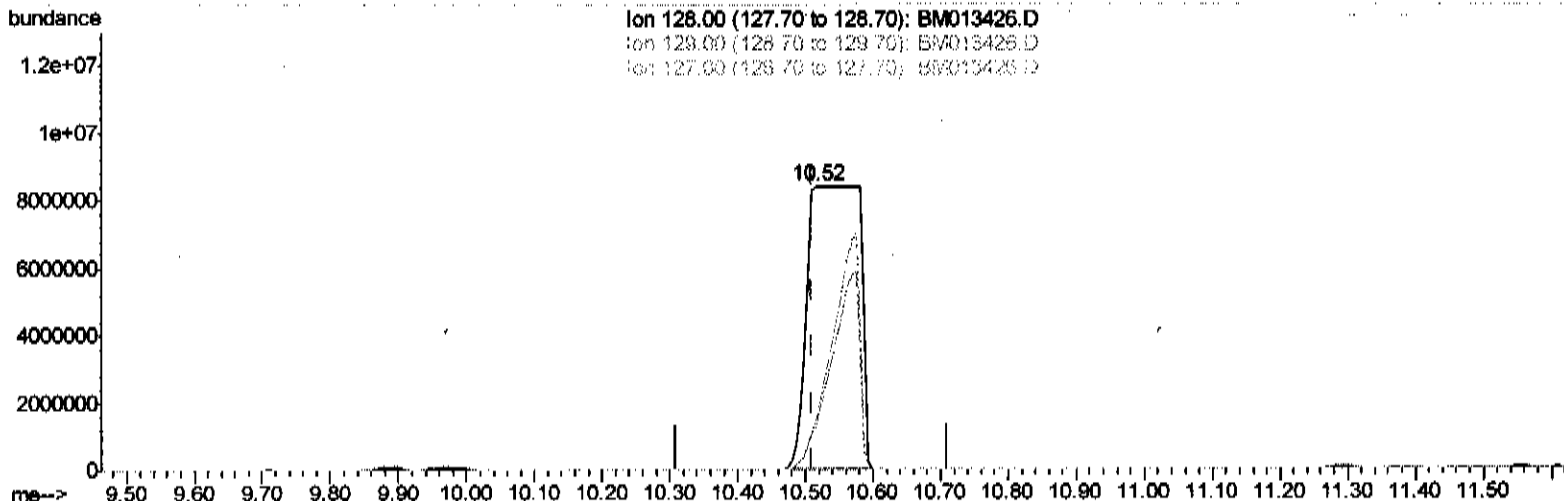
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
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Manual Integrations
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Sohil
 12/15/2017 6:49:08 PM

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 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(28) Naphthalene

10.516min (+0.006) 787.58ng/ul m

response 44327124

Ion	Exp%	Act%
128.00	100	100
129.00	11.00	16.44#
127.00	13.30	18.60#
0.00	0.00	0.00

SJ 12/15/17

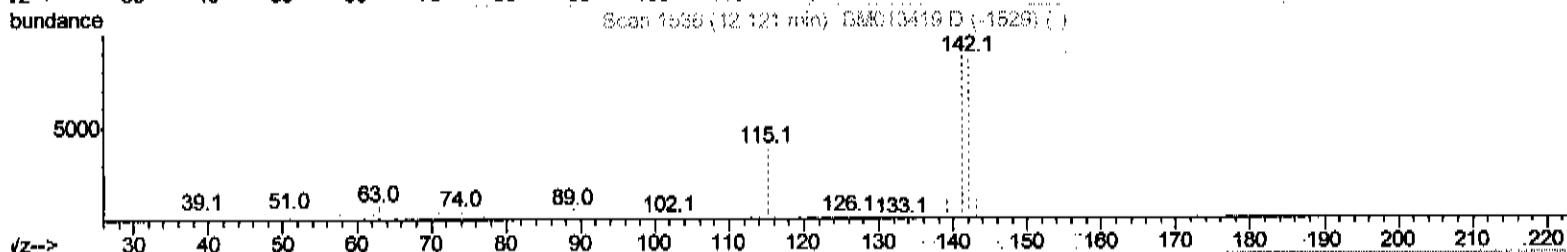
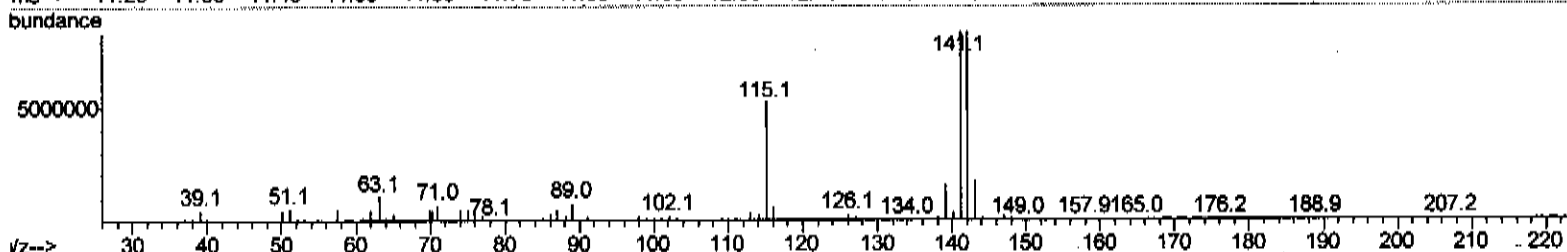
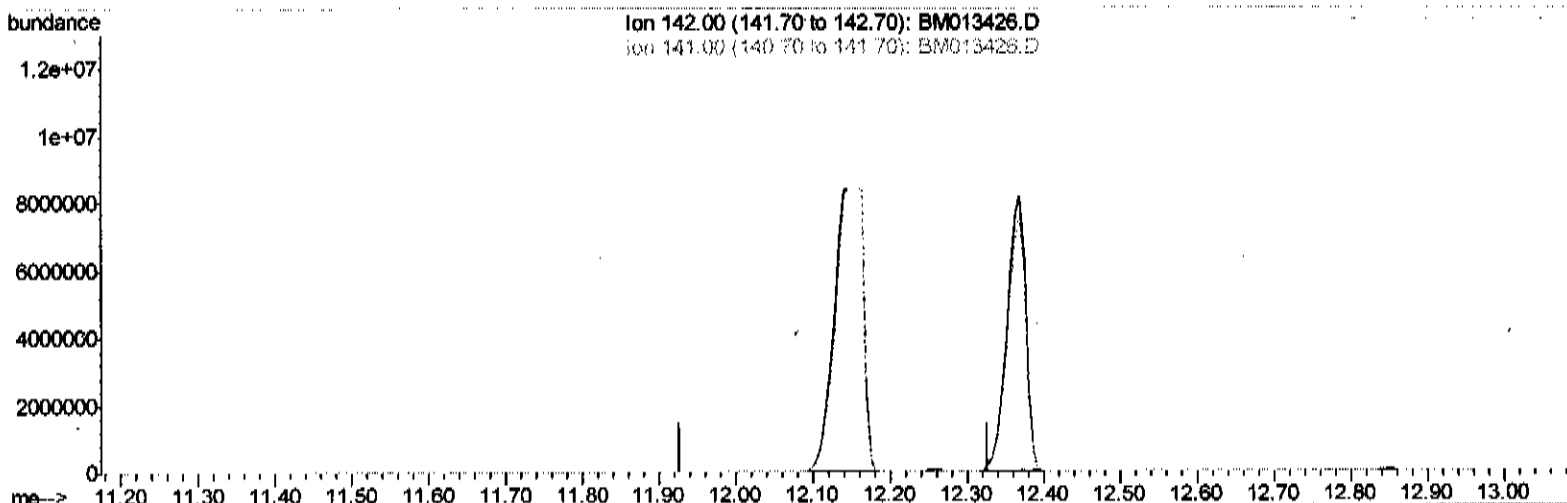
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
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 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
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Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
 Quant Method : 2:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
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 Response via : Initial Calibration



TIC: BM013426.D

(34) 2-Methylnaphthalene

12.128min (-12.128) 0.00ng/ul

response 0

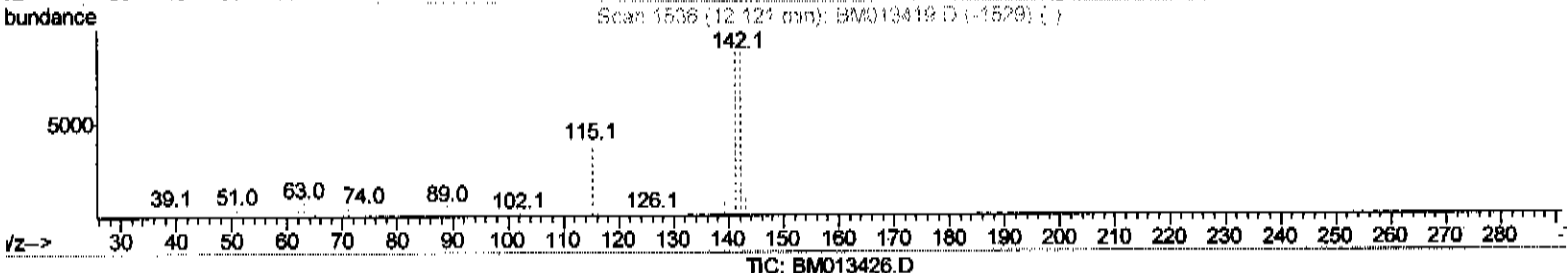
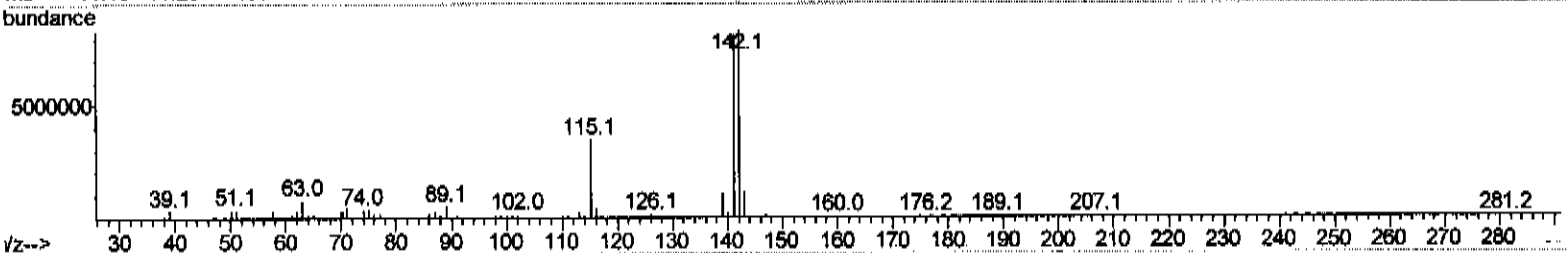
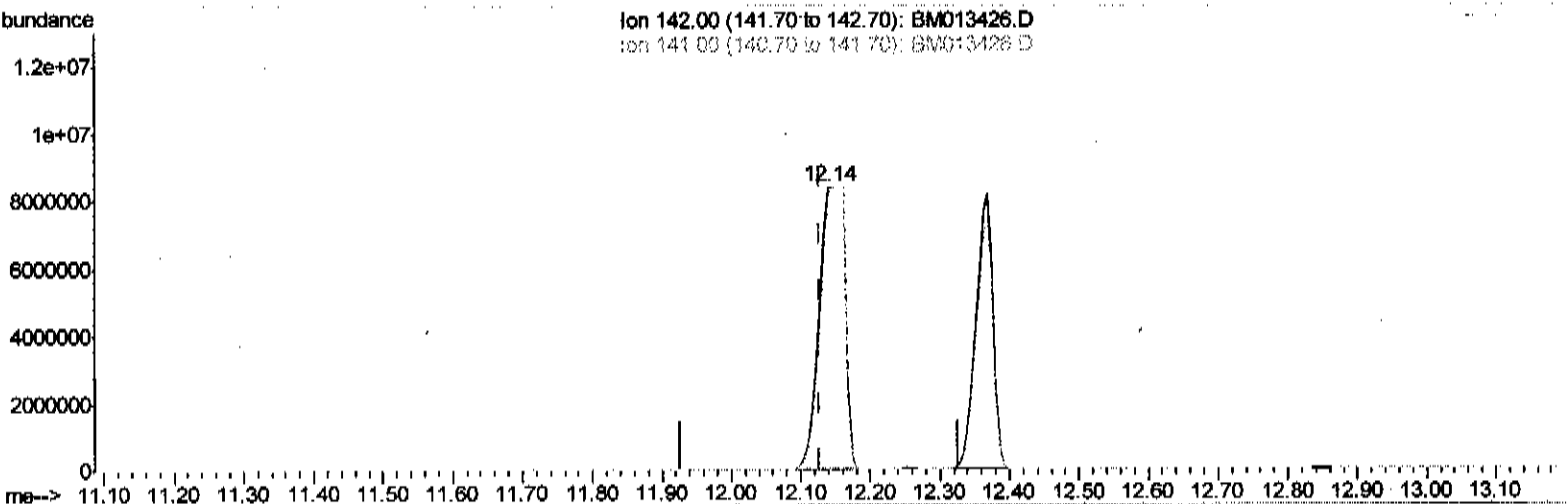
Ion	Exp%	Act%
142.00	100	0.00
141.00	92.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
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 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED
 Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
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 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(34) 2-Methylnaphthalene

12.139min (+0.012) 517.11ng/ul m *SJ 12/18/17*

response 21878344

Ion	Exp%	Act%
142.00	100	100
141.00	92.60	97.15
0.00	0.00	0.00
0.00	0.00	0.00

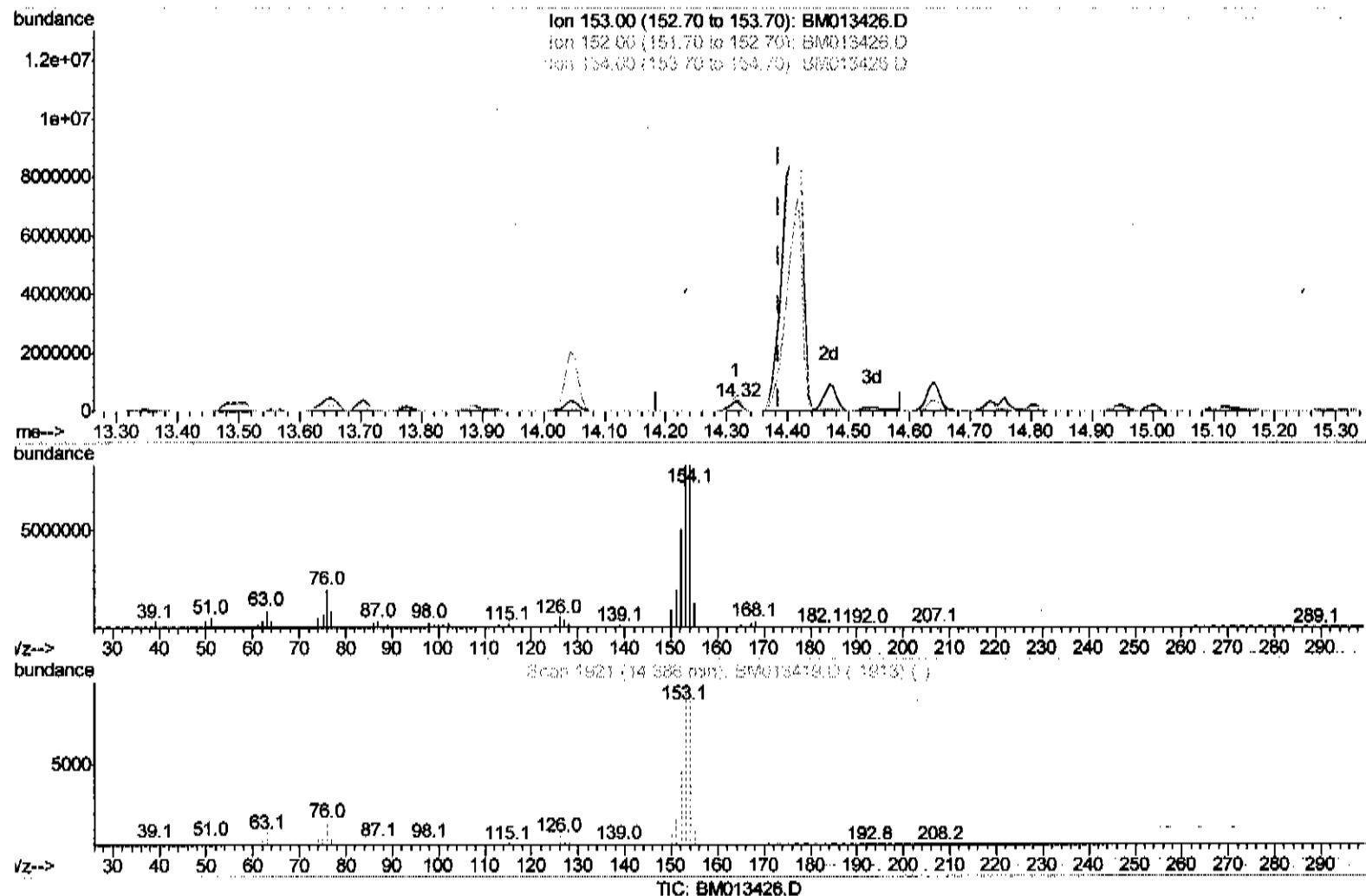
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
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 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F9A78

Manual Integrations
 APPROVED

Sohil
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 Response via : Initial Calibration



(49) Acenaphthene (C)

14.316min (-0.071) 9.54ng/ul

response 442411

Ion	Exp%	Act%
153.00	100	100
152.00	47.00	149.23#
154.00	88.00	12.13#
0.00	0.00	0.00

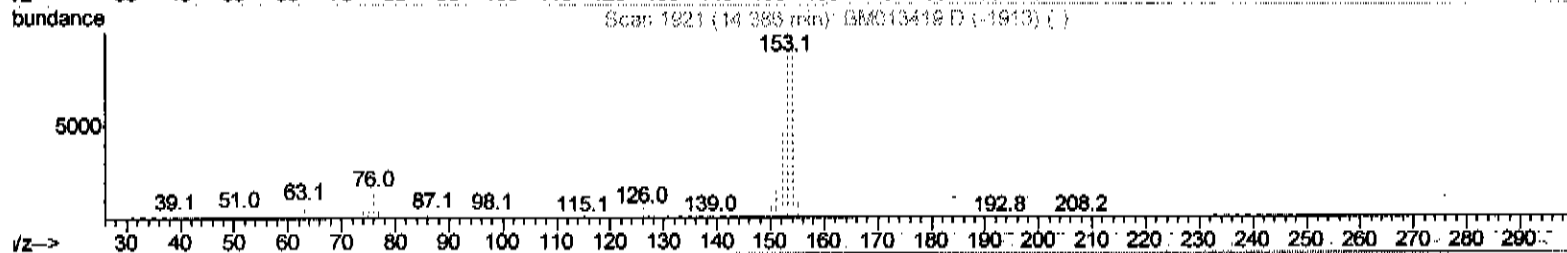
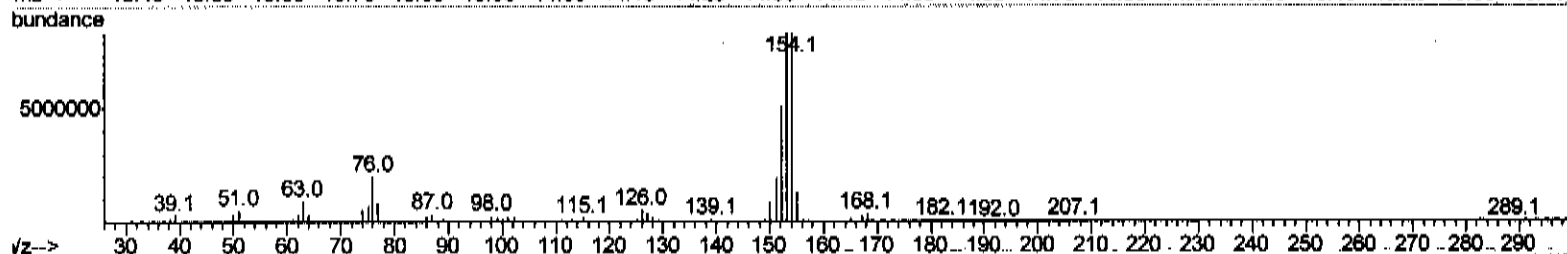
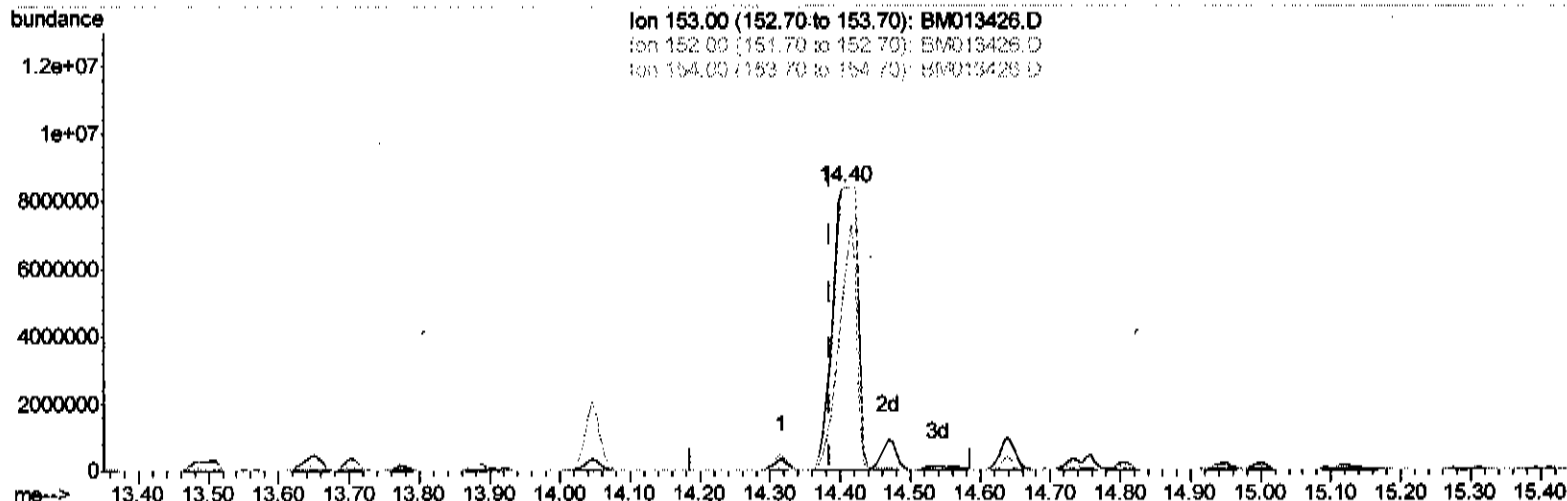
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(49) Acenaphthene (C)

14.404min (+0.018) 447.88ng/ul m

response 20764070

Ion	Exp%	Act%
153.00	100	100
152.00	47.00	60.48#
154.00	88.00	100.00
0.00	0.00	0.00

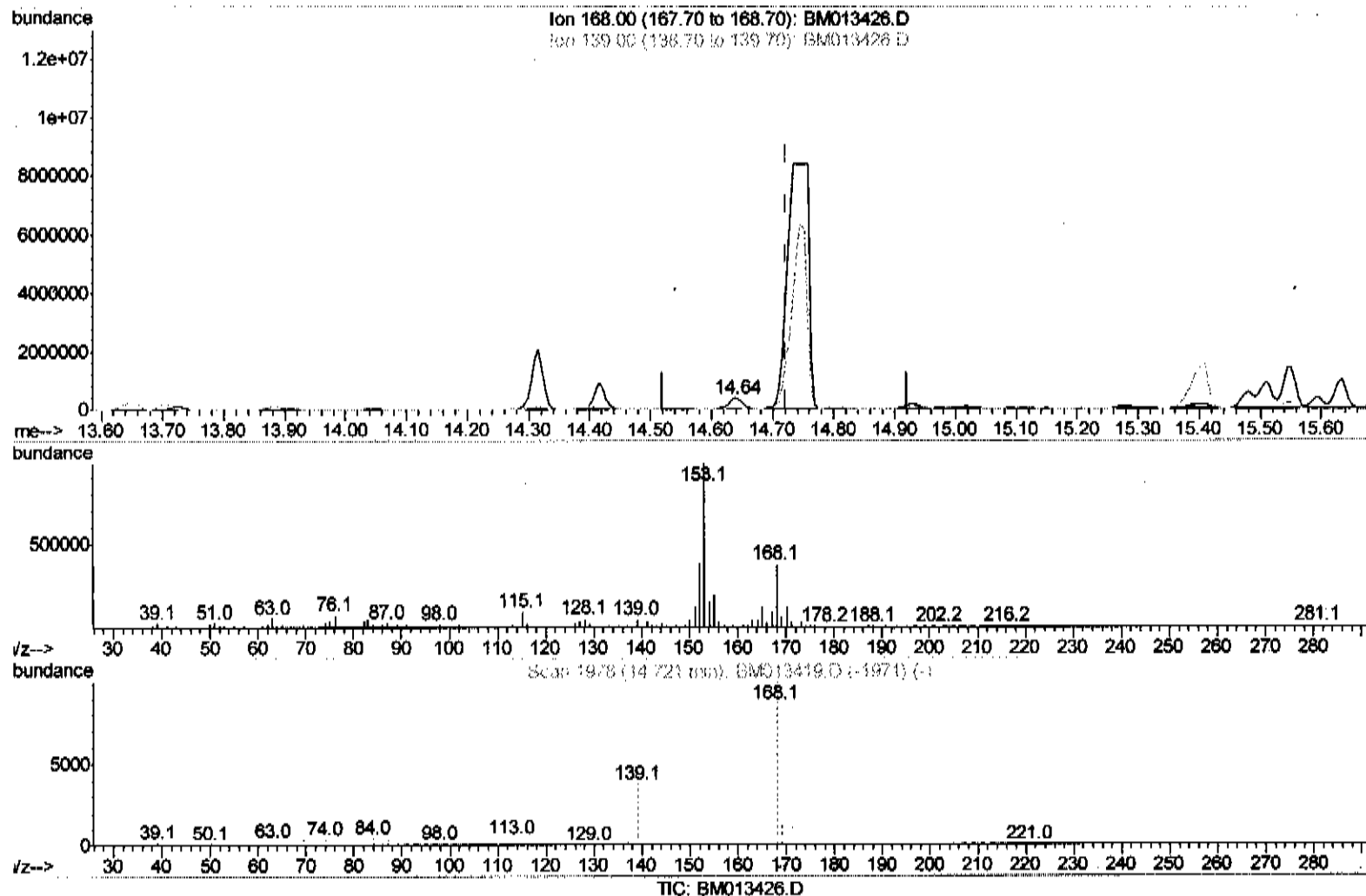
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
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 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(53) Dibenzofuran

14.639min (-0.082) 8.18ng/ul

response 559595

Ion	Exp%	Act%
168.00	100	100
139.00	38.50	11.73#
0.00	0.00	0.00
0.00	0.00	0.00

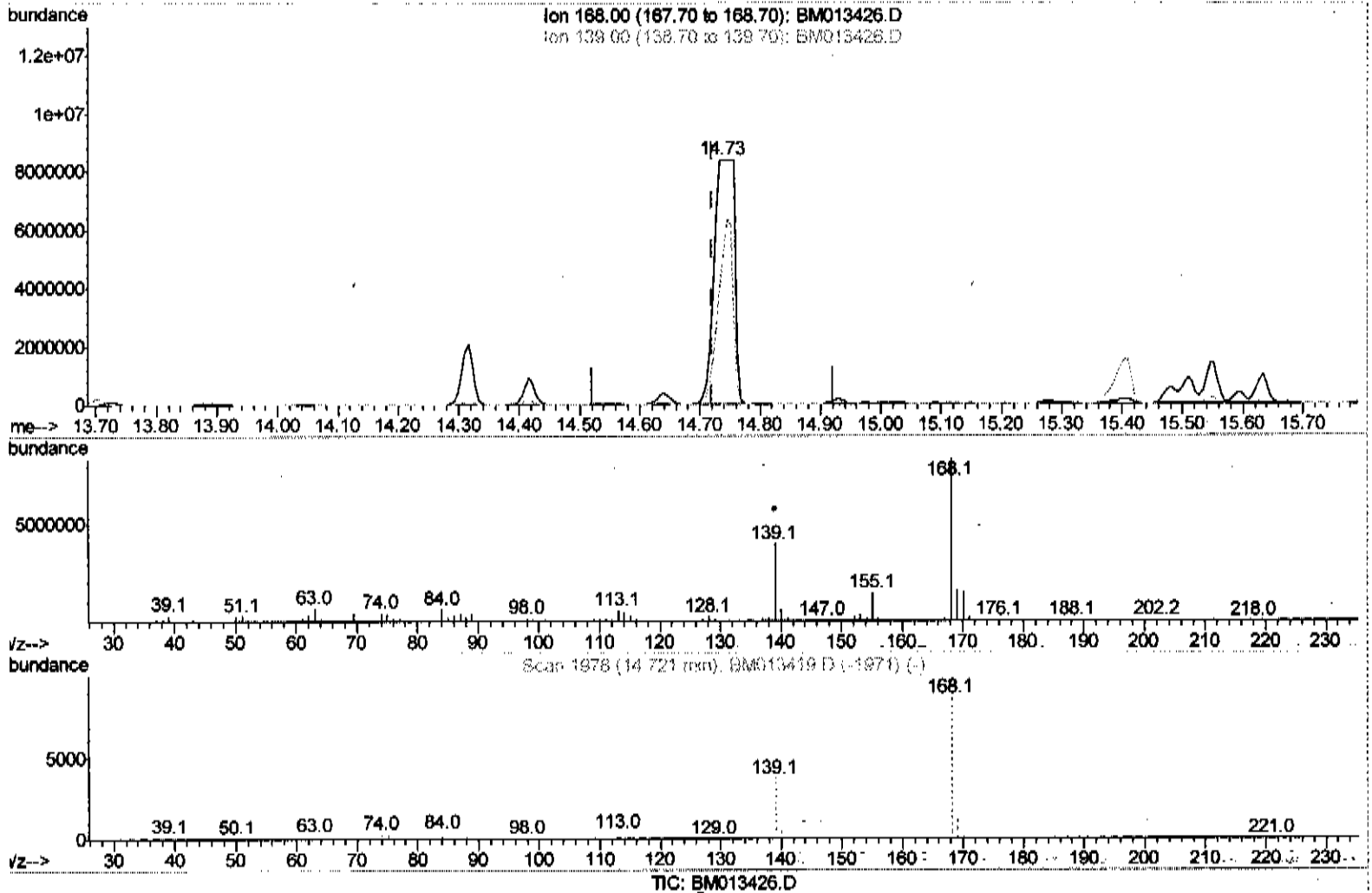
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(53) Dibenzofuran

14.733min (+0.012) 294.68ng/ul m

response 20168364

Ion	Exp%	Act%
168.00	100	100
139.00	38.50	47.13#
0.00	0.00	0.00
0.00	0.00	0.00

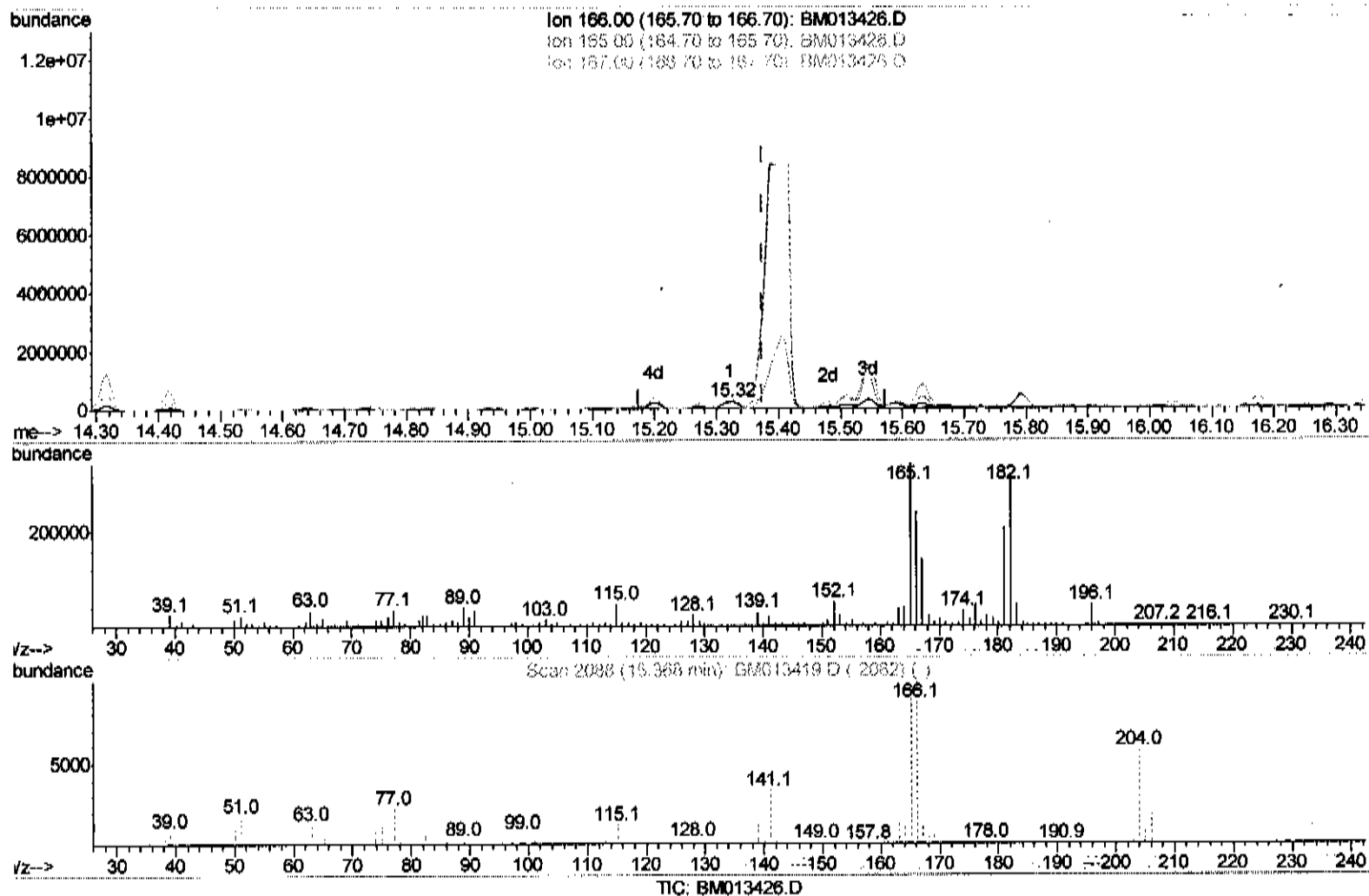
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 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
 Quant Method : 2:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(58) Fluorene

15.322min (-0.053) 6.93ng/ul

response 392340

Ion	Exp%	Act%
166.00	100	100
165.00	97.40	142.40#
167.00	13.30	58.85#
0.00	0.00	0.00

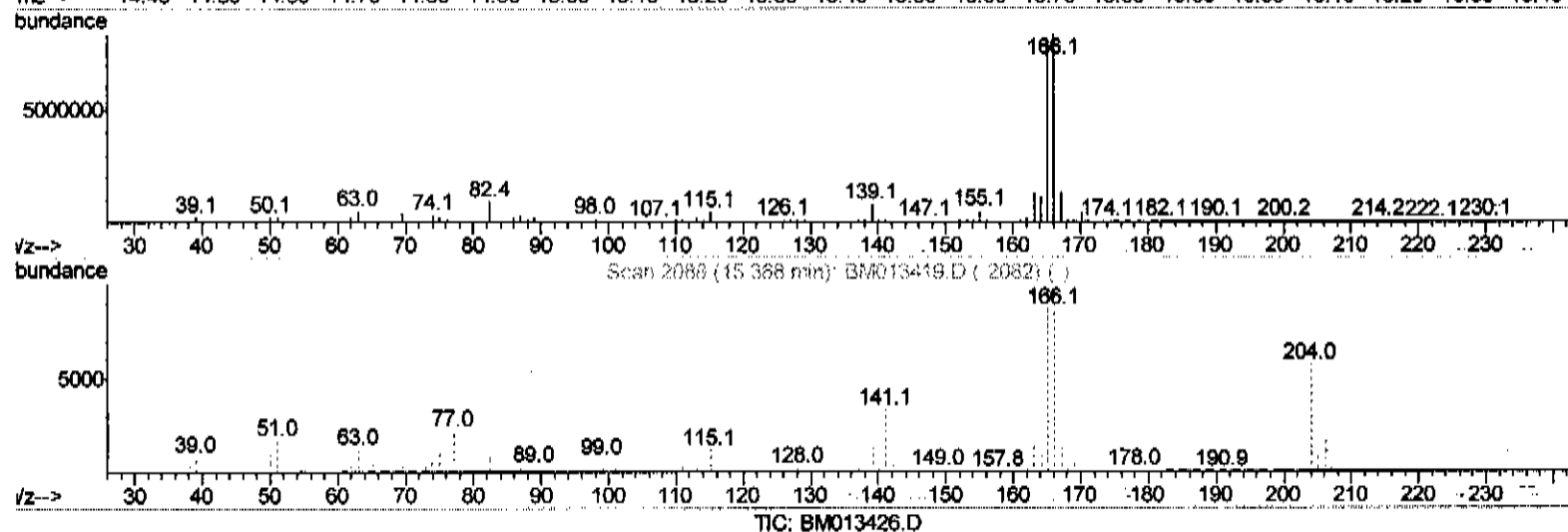
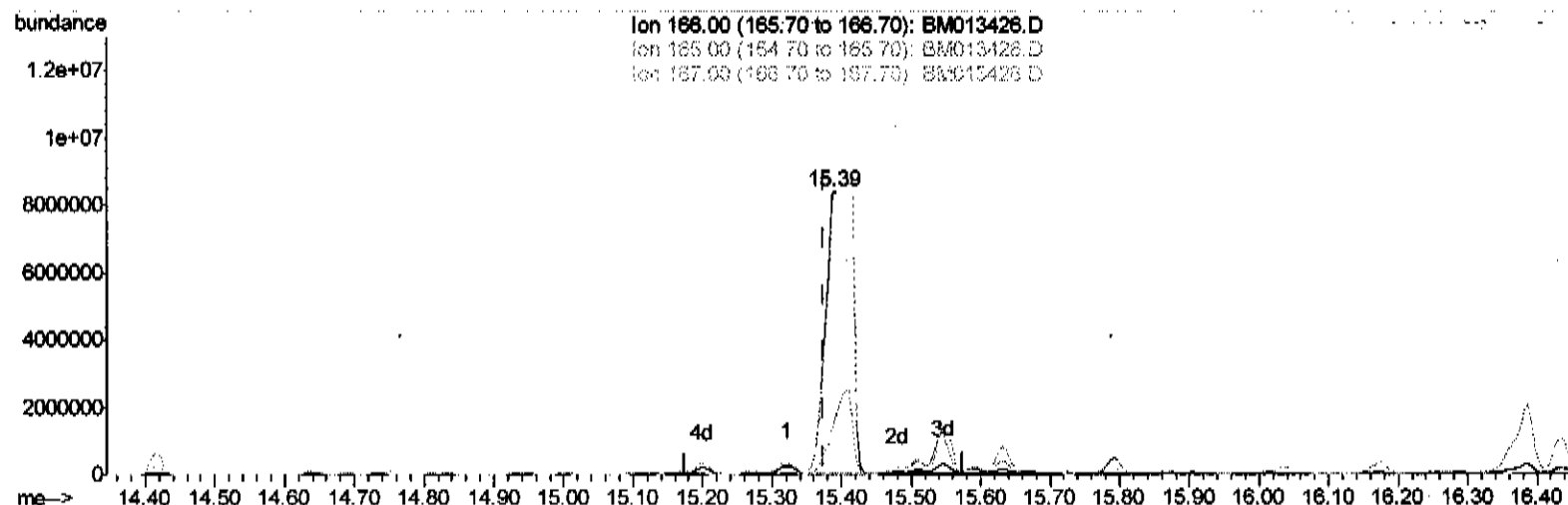
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

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 Quant Title : SVOA CALIBRATION
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 Response via : Initial Calibration



(58) Fluorene

15.386min (+0.012) 401.93ng/ul m

response 22757248

Ion	Exp%	Act%
166.00	100	100
165.00	97.40	96.46
167.00	13.30	15.77
0.00	0.00	0.00

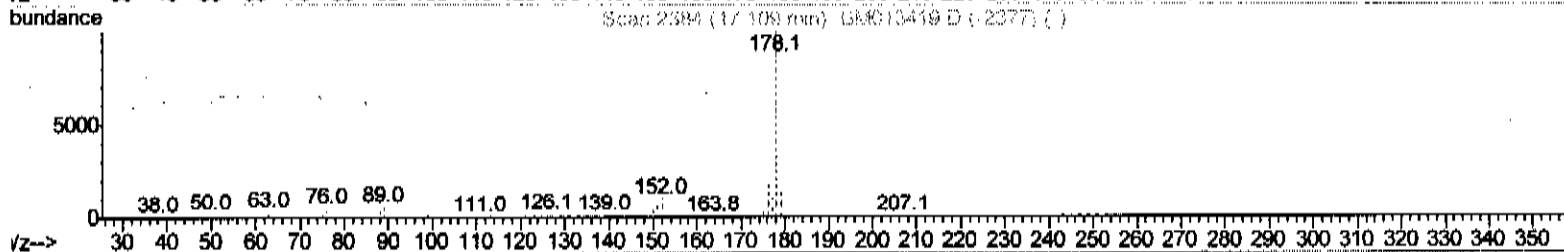
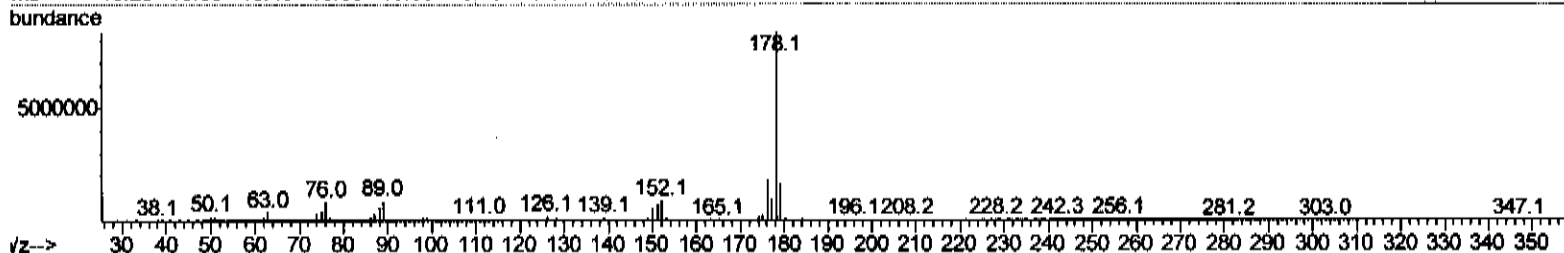
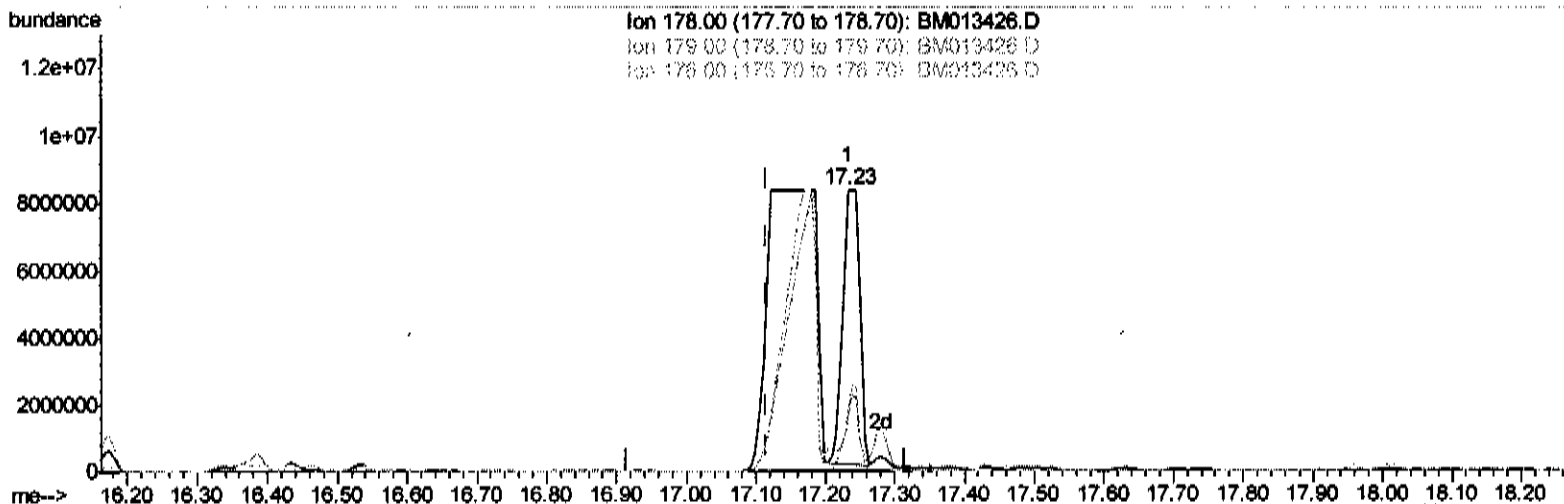
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
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Instrument :
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Manual Integrations
 APPROVED

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 12/15/2017 6:49:08 PM

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TIC: BM013426.D

(69) Phenanthrene

17.233min (+0.118) 193.87ng/ul

response 14090339

Ion	Exp%	Act%
178.00	100	100
179.00	15.80	19.99#
176.00	18.60	22.18
0.00	0.00	0.00

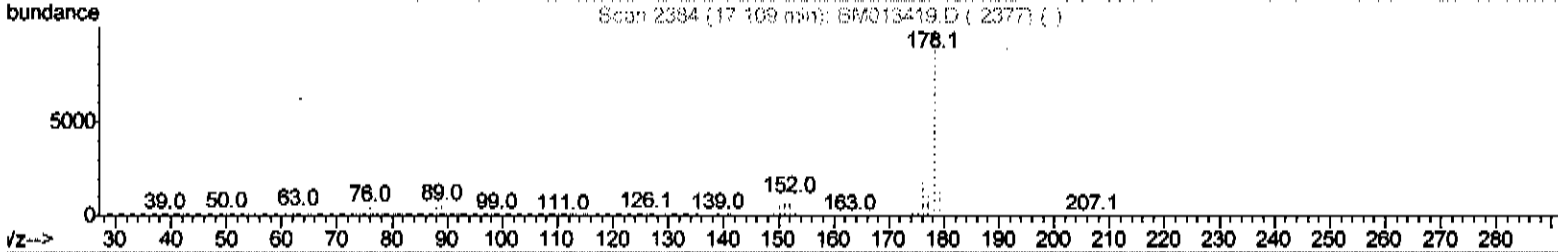
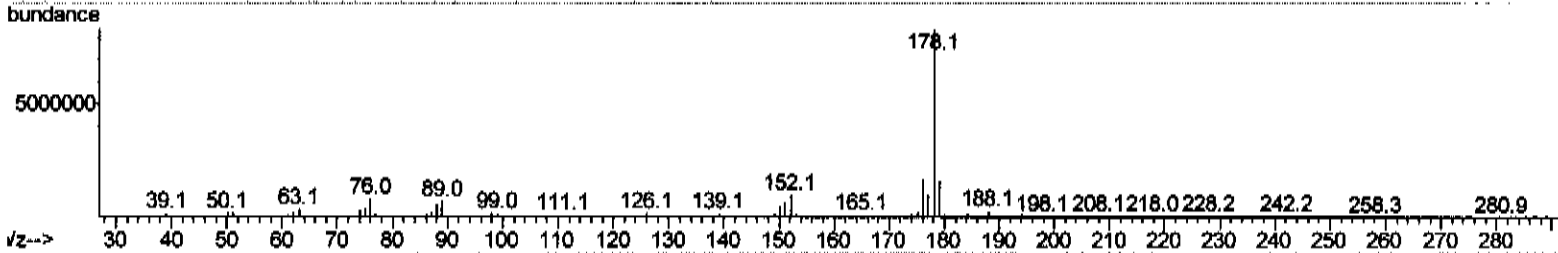
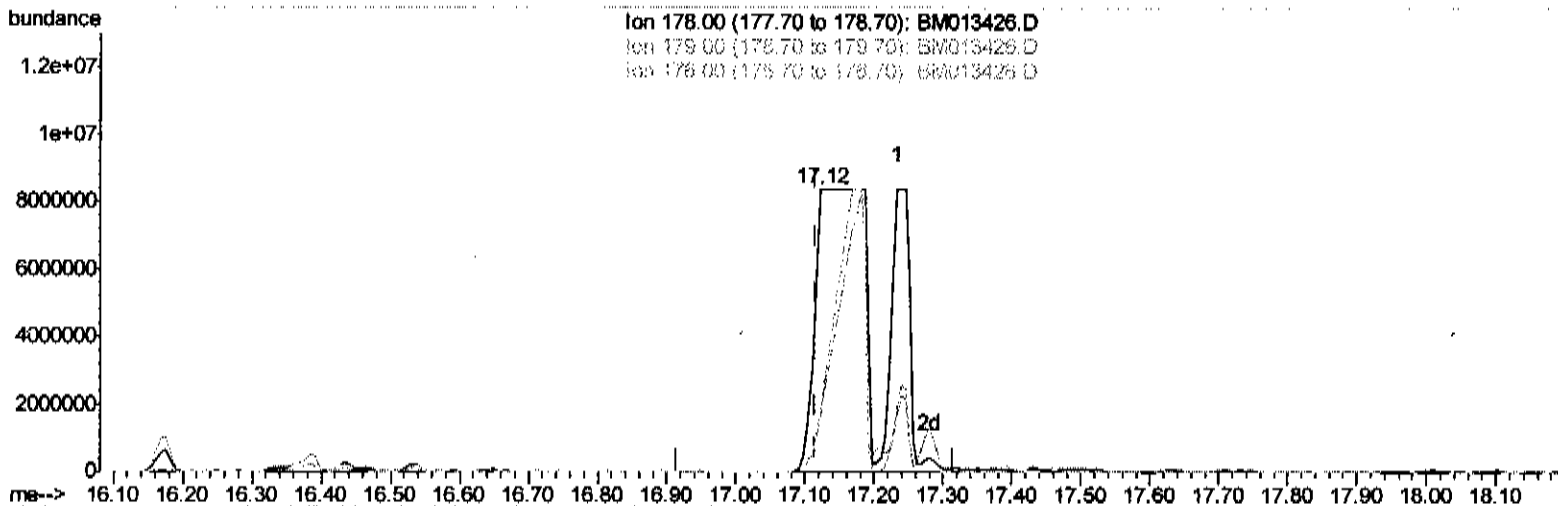
Data Path : \\74.0.250.170\VOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 F9A78

Manual Integrations
 APPROVED

Sohil
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 Response via : Initial Calibration



TIC: BM013426.D

(89) Phenanthrene

17.121min (+0.006) 561.40ng/ul m

response 40802124

Ion	Exp%	Act%
178.00	100	100
179.00	15.80	19.04#
176.00	18.60	20.12
0.00	0.00	0.00

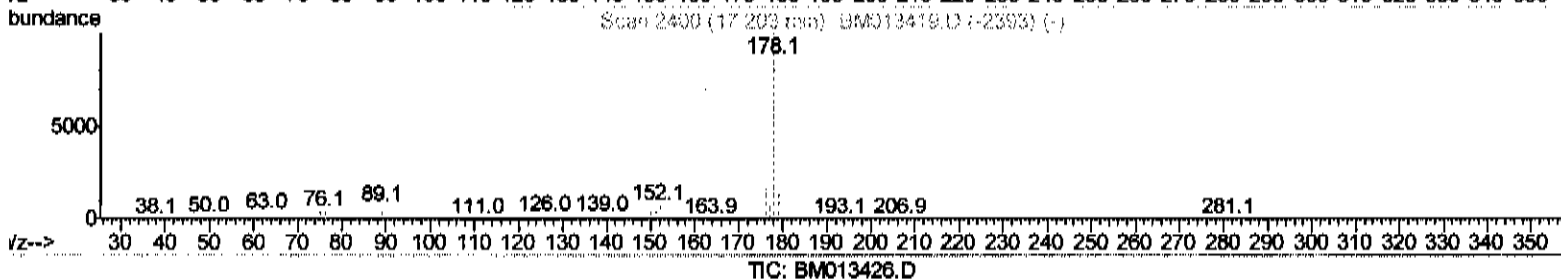
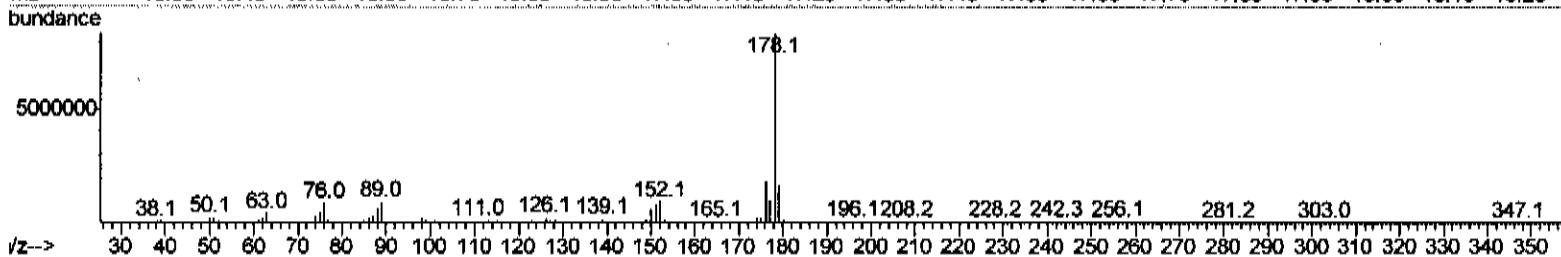
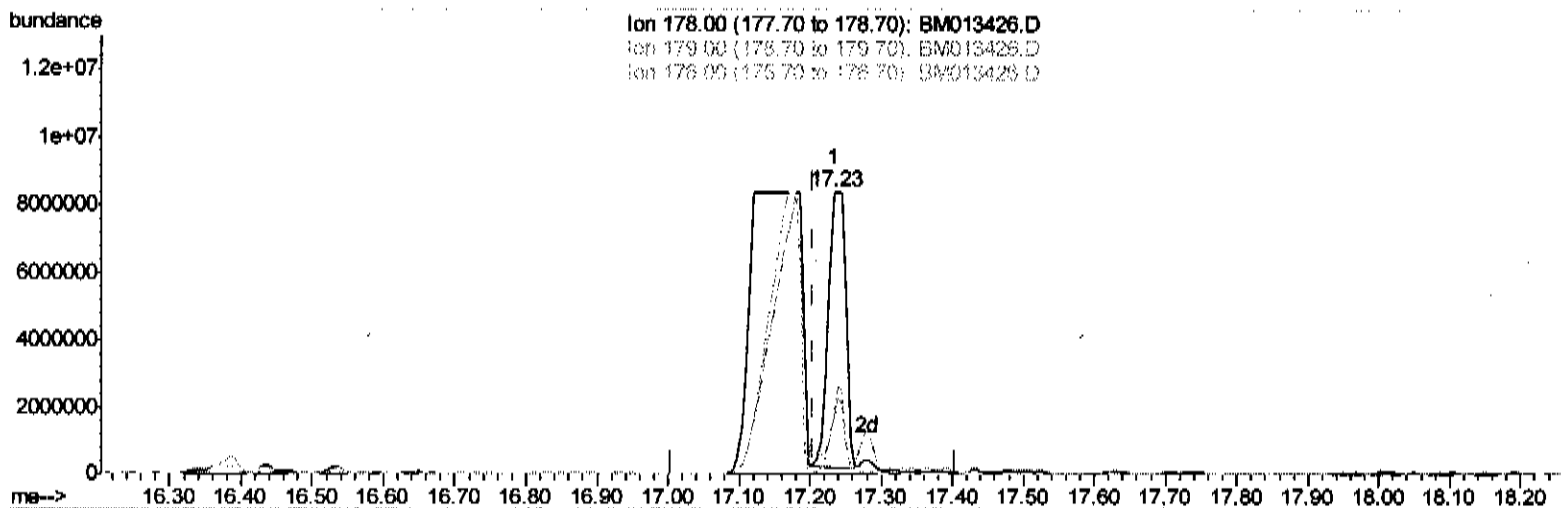
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JV
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
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Manual Integrations
 APPROVED

Sohil
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(71) Anthracene

17.233min (+0.029) 189.67ng/ul

response 14090339

Ion	Exp%	Act%
178.00	100	100
179.00	14.60	19.99#
176.00	18.20	22.18#
0.00	0.00	0.00

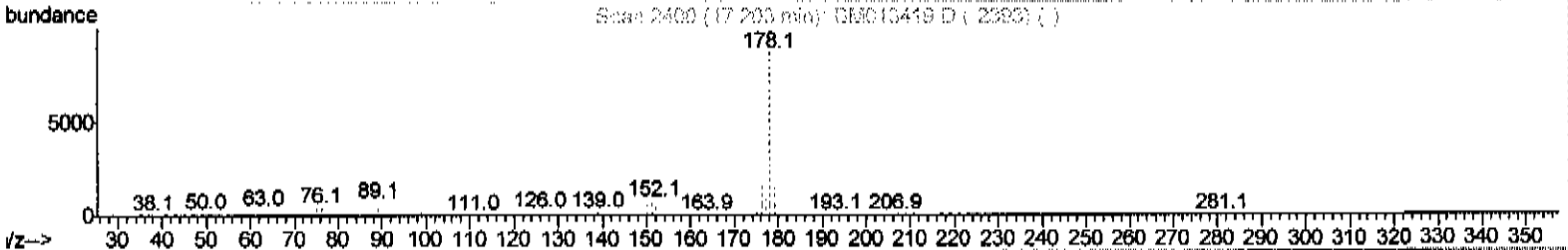
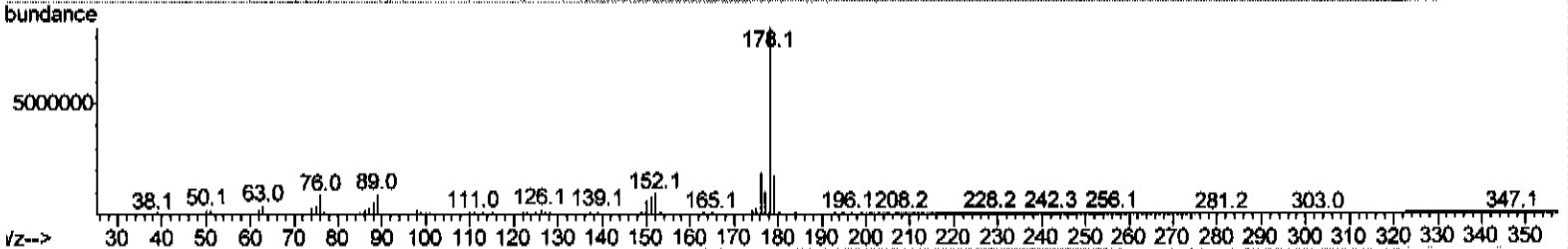
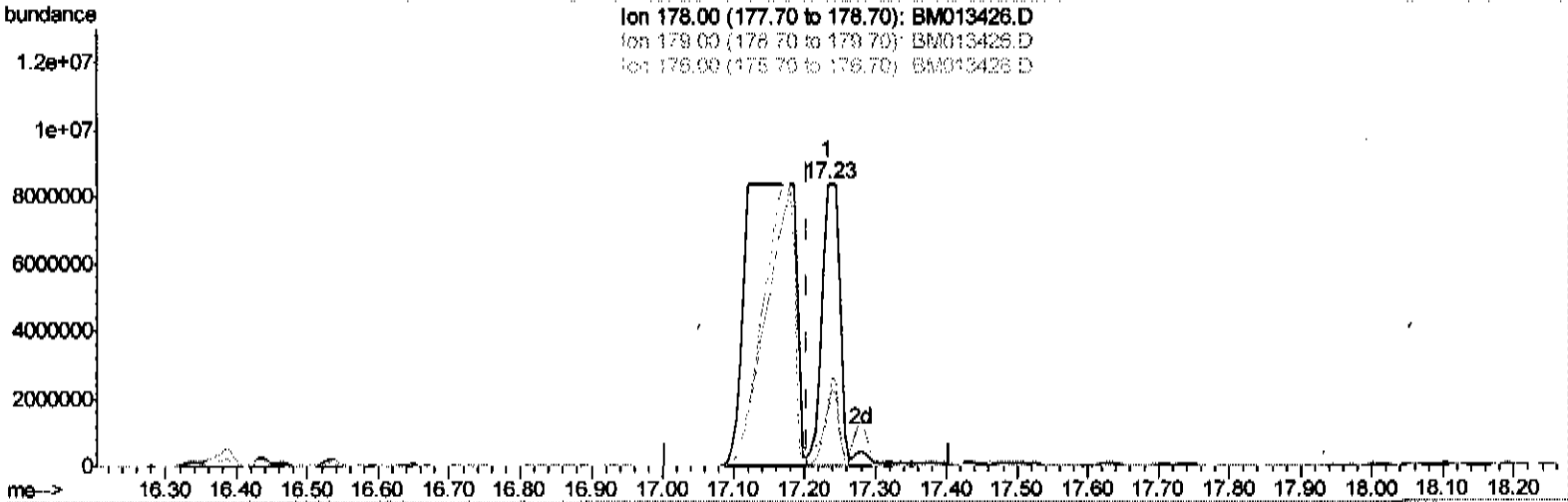
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
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Manual Integrations
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 Response via : Initial Calibration



TIC: BM013426.D

(71) Anthracene

17.233min (+0.029) 198.42ng/ul m

response 14740627

Ion	Exp%	Act%
178.00	100	100
179.00	14.60	19.99#
176.00	18.20	22.18#
0.00	0.00	0.00

see 12/18/17

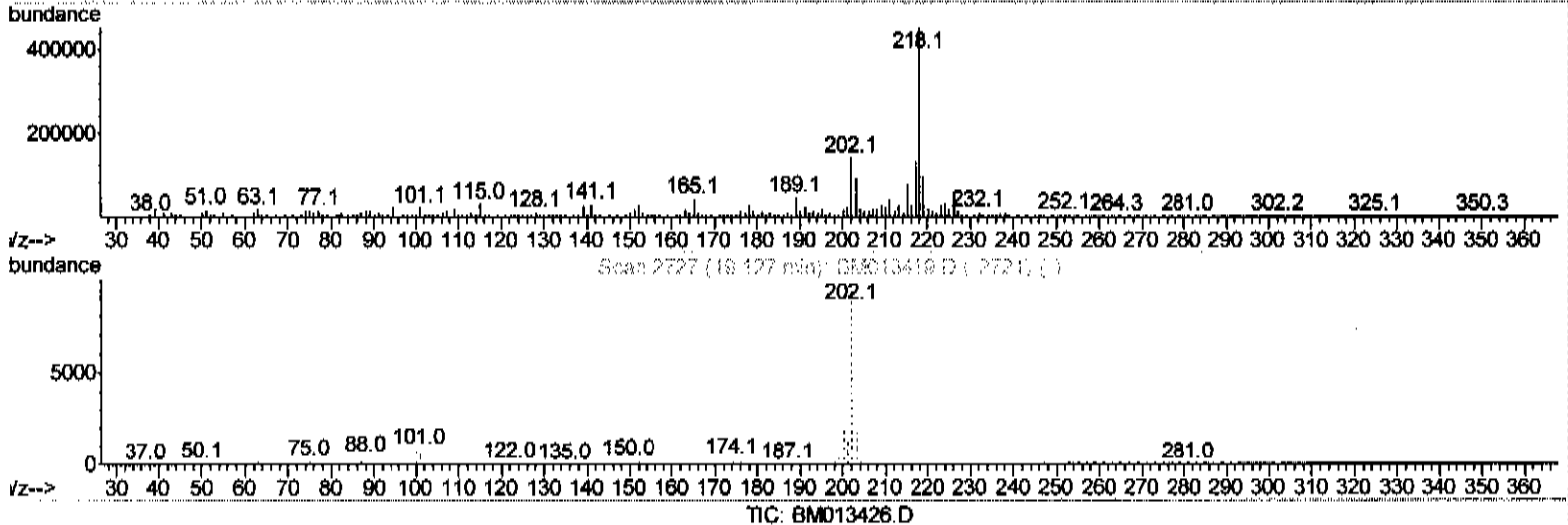
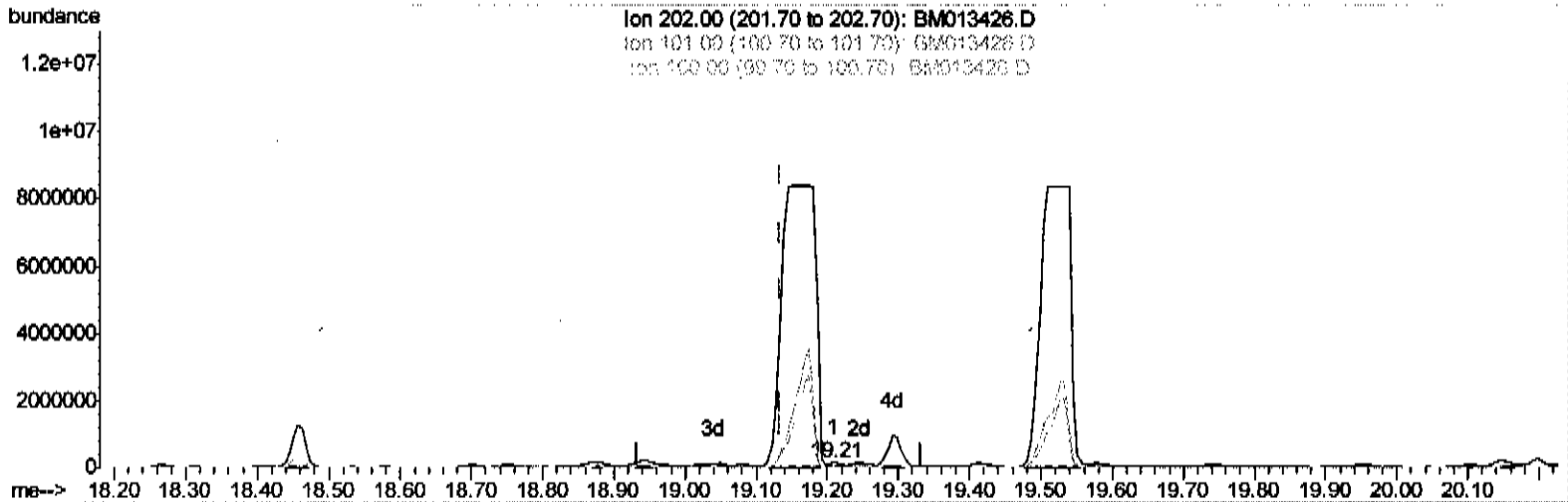
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
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 ClientSampled :
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Manual Integrations
 APPROVED

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(74) Fluoranthene (C)

19.209min (+0.077) 0.90ng/ul

response 80173

Ion	Exp%	Act%
202.00	100	100
101.00	5.80	15.36#
100.00	4.30	4.25
0.00	0.00	0.00

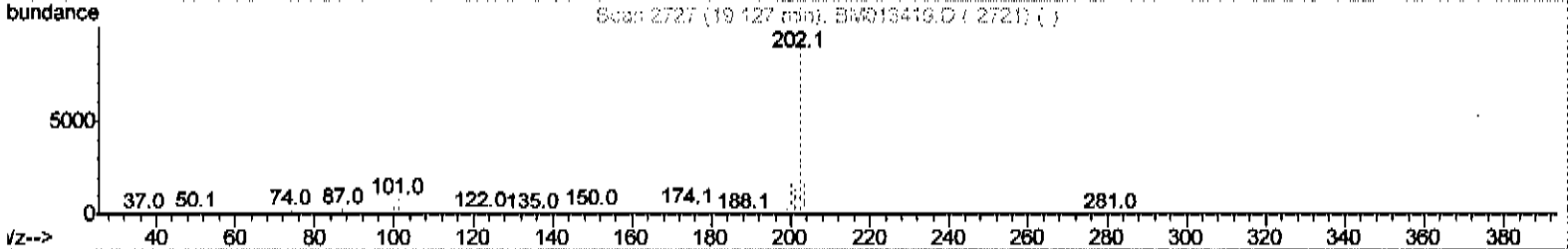
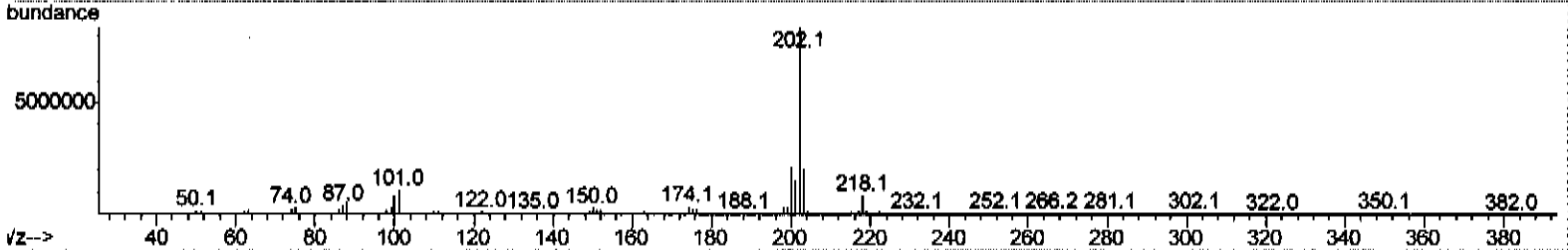
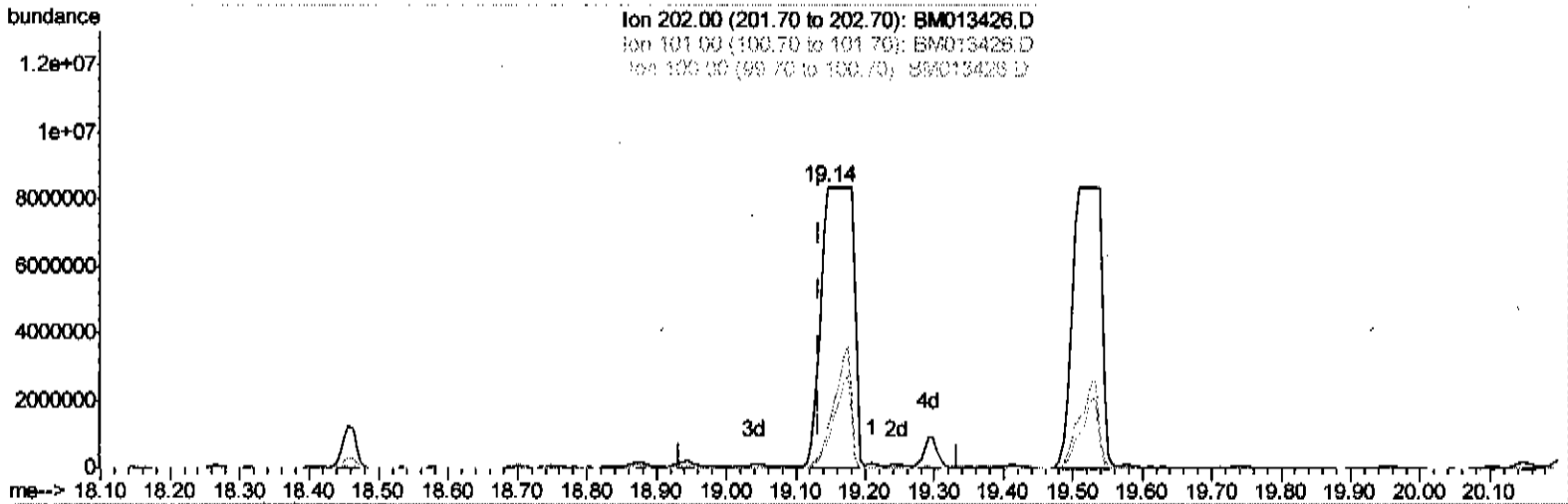
Data Path : \\74.0.250.170\VOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



TIC: BM013426.D

(74) Fluoranthene (C)

19.145min (+0.012) 307.51ng/ul m

ju nisha

response 27388354

Ion	Exp%	Act%
202.00	100	100
101.00	5.80	13.01#
100.00	4.30	9.69#
0.00	0.00	0.00

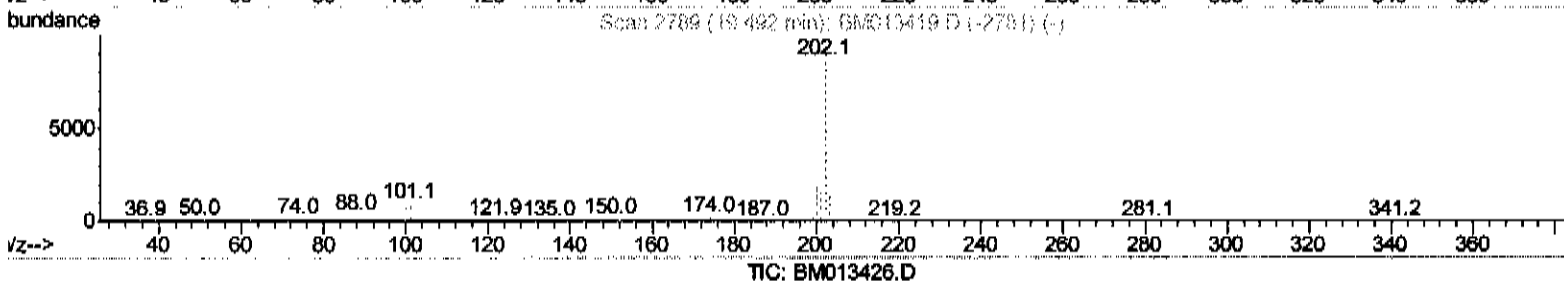
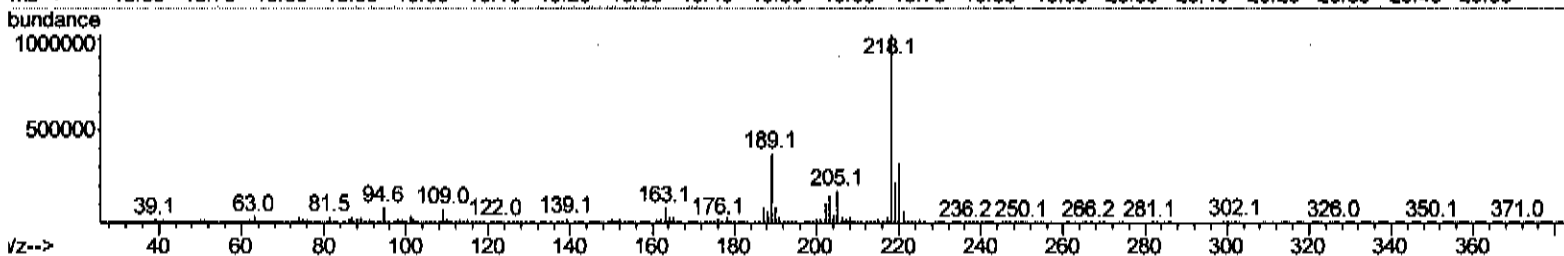
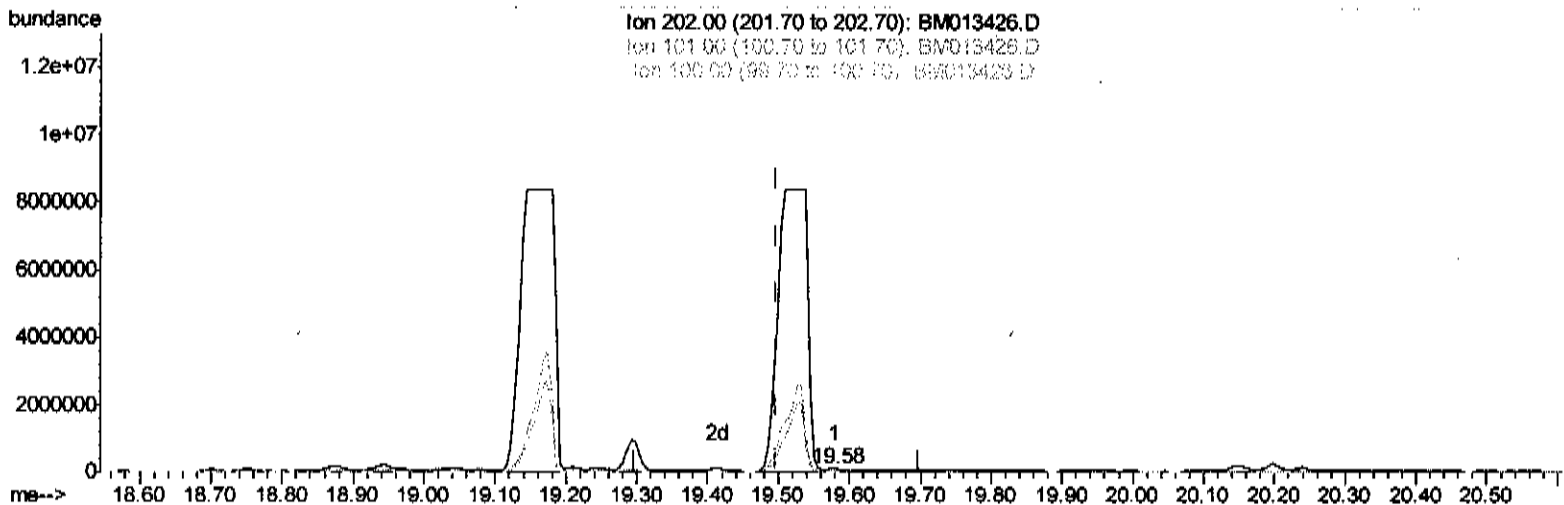
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
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 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F9A78

Manual Integrations
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(77) Pyrene

19.580min (+0.082) 2.04ng/ul

response 125948

Ion	Exp%	Act%
202.00	100	100
101.00	6.40	33.69#
100.00	6.10	11.41#
0.00	0.00	0.00

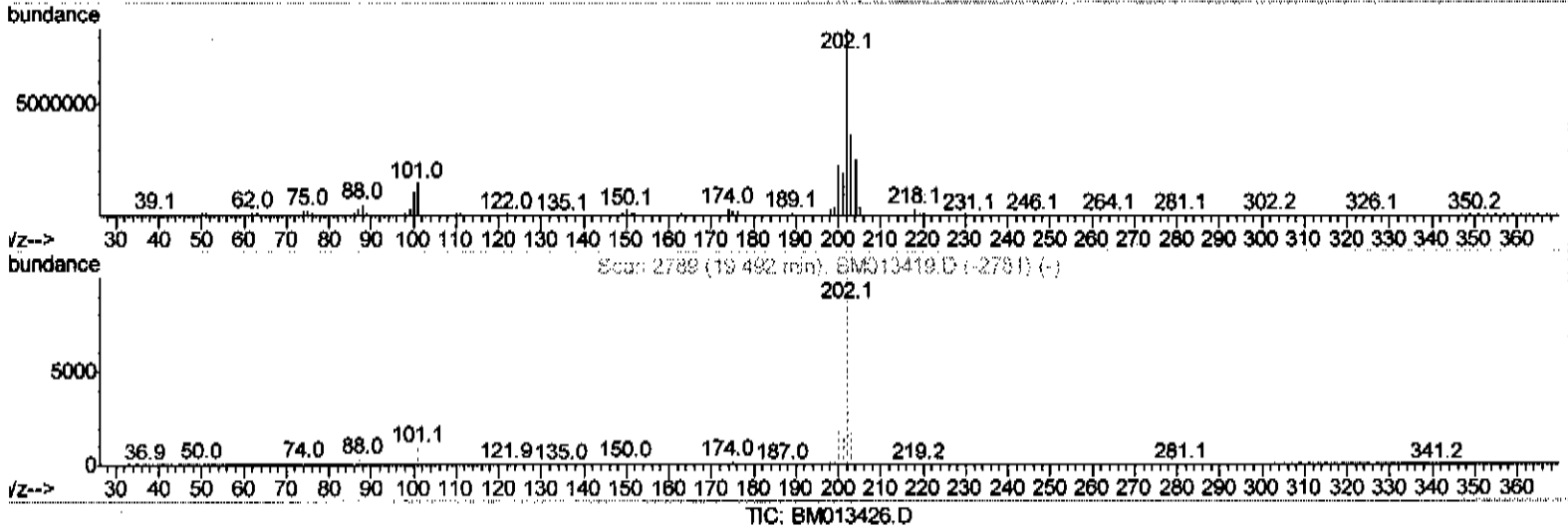
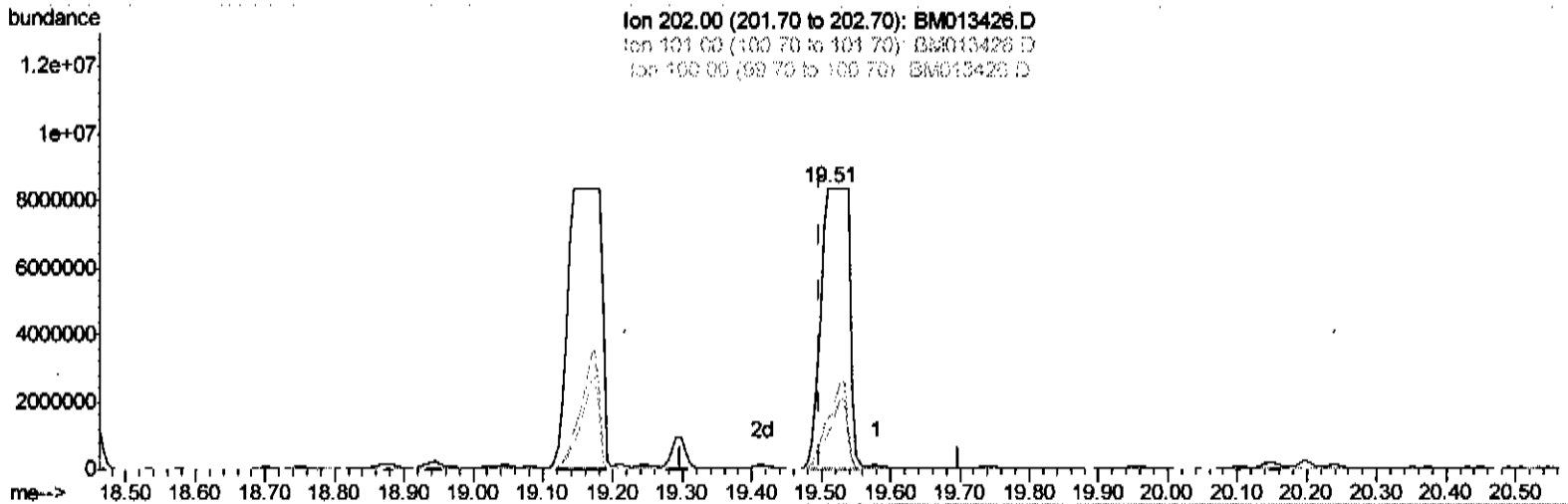
Data Path : \\74.0.250.170\VOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 F9A78

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:49:08 PM

Quant Time: Dec 15 10:45:07 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration



(77) Pyrene

19.509min (+0.012) 388.37ng/ml

response 24006974

Ion	Exp%	Act%
202.00	100	100
101.00	6.40	17.66#
100.00	6.10	12.86#
0.00	0.00	0.00

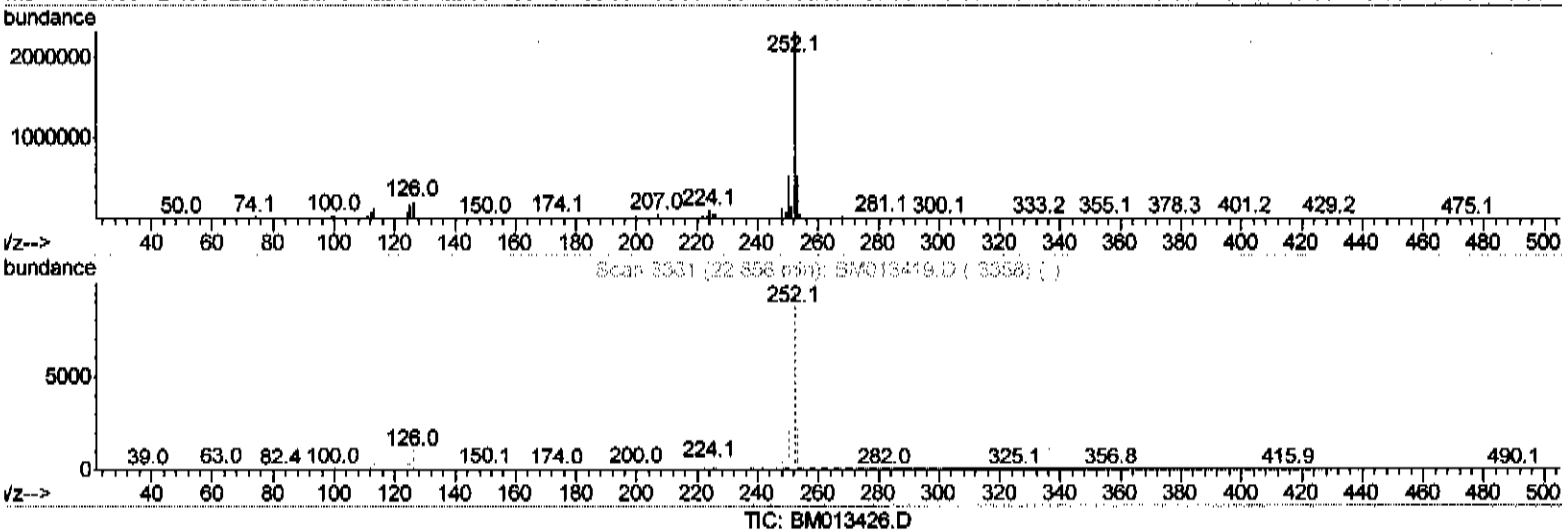
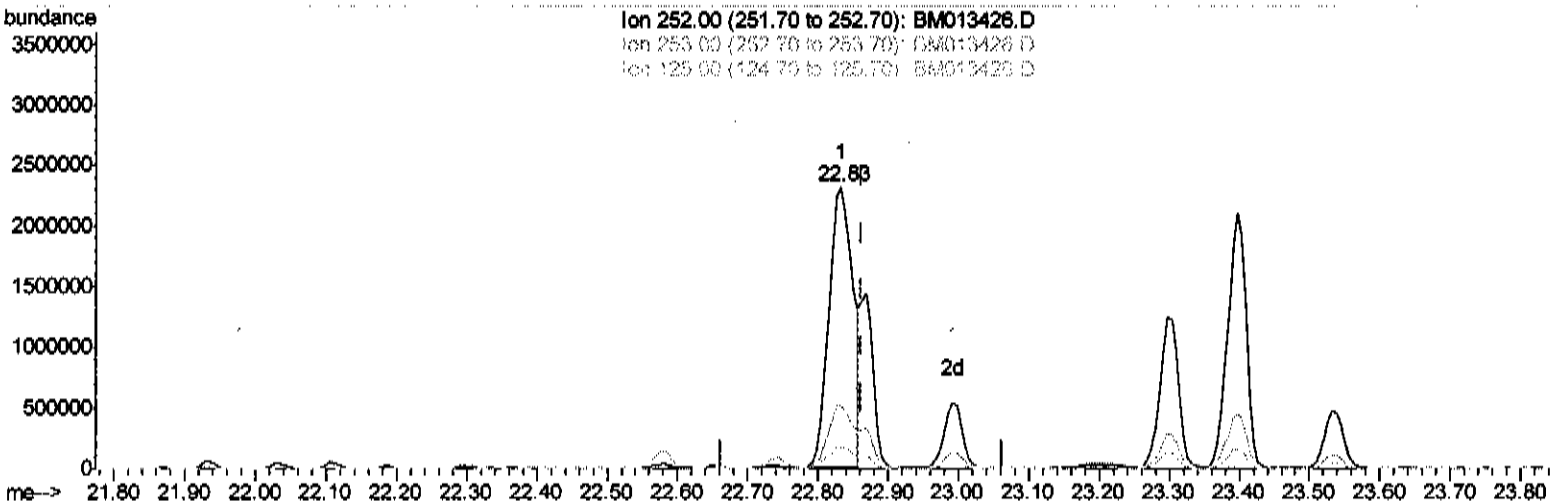
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013426.D
 Acq On : 15 Dec 2017 06:00
 Operator : SJ/JU
 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 F9A78

Manual Integrations
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Sohil
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Quant Time: Dec 15 10:45:07 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
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(86) Benzo(k)fluoranthene

22.833min (-0.029) 99.27ng/ul

response 5536136

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	22.61
125.00	4.30	7.73#
0.00	0.00	0.00

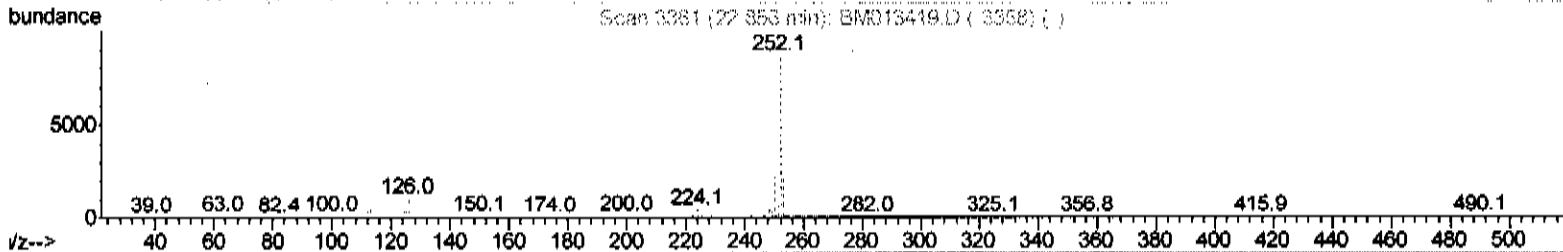
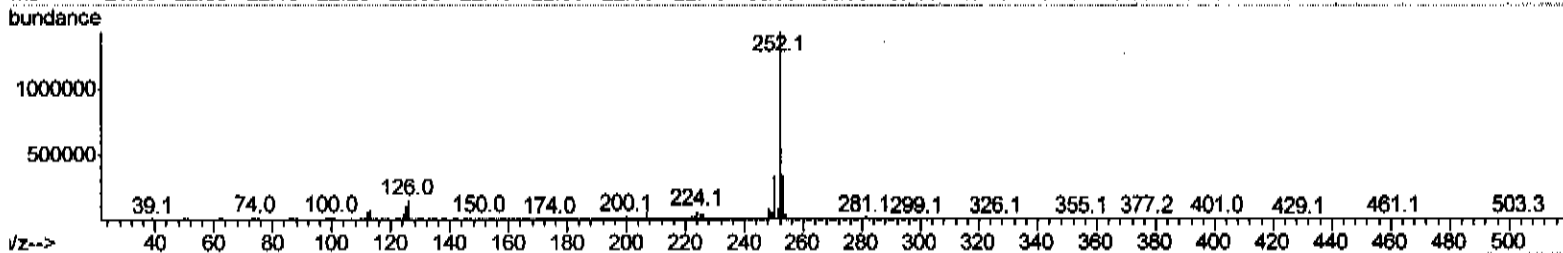
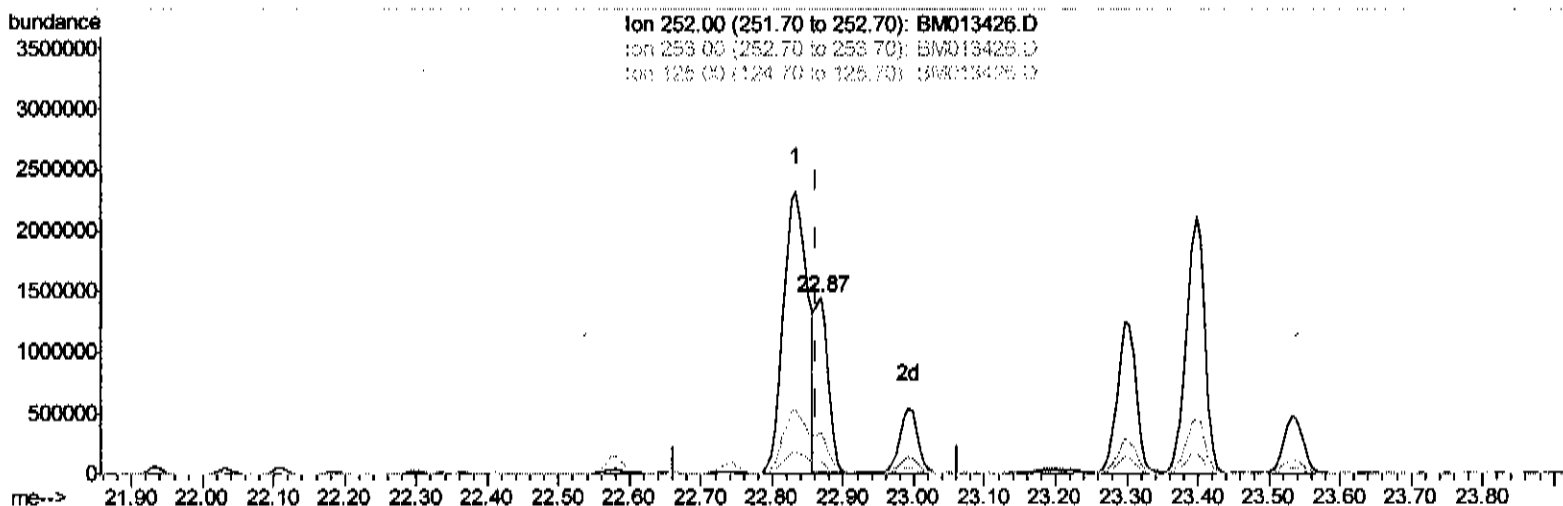
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
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 Sample : I6778-13 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
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 ClientSampled :
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Manual Integrations
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Sohil
 12/15/2017 6:49:08 PM

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 Response via : Initial Calibration



TIC: BM013426.D

(86) Benzo(k)fluoranthene

22.868min (+0.006) 32.58ng/ul m

response 1816866

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	23.53
125.00	4.30	6.98#
0.00	0.00	0.00

SJ 12/15/17

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
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Instrument :
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Manual Integrations
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Sohil
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 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	255561	20.00	ng/ul	0.00
18) Naphthalene-d8	10.48	136	1093948	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.32	164	669702	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.10	188	1279287	20.00	ng/ul	0.02
75) Chrysene-d12	21.27	240	1017489	20.00	ng/ul	0.01
83) Perylene-d12	23.49	264	879132	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	1715	0.33	ng/uL	0.00
5) Phenol-d5	6.86	99	25139	1.14	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.02	67	17485	1.39	ng/ul	0.00
9) 2-Chlorophenol-d4	7.22	132	20934	1.21	ng/ul	0.00
13) 4-Methylphenol-d8	8.39	113	21716	1.15	ng/ul	0.00
19) Nitrobenzene-d5	8.84	128	23452	2.70	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	14317	1.54	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.10	165	22504	1.18	ng/ul	0.02
29) 4-Chloroaniline-d4	10.61	131	51093	2.91	ng/ul	0.01
43) Dimethylphthalate-d6	13.75	166	93153	1.56	ng/ul	0.00
46) Acenaphthylene-d8	14.02	160	87735	1.19	ng/ul	0.00
51) 4-Nitrophenol-d4	14.53	143	6274	0.61	ng/ul	0.00
57) Fluorene-d10	15.32	176	81016	1.58	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.49	200	3707	0.46	ng/ul	0.04
70) Anthracene-d10	17.20	188	95223	1.49	ng/ul	0.04
76) Pyrene-d10	19.48	212	100872	1.99	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.35	264	63385	1.42	ng/ul	0.00

Target Compounds

				Ovalue
24) 2,4-Dimethylphenol	9.65	107	39633	1.888 ng/ul 93
28) Naphthalene	10.52	128	44327124m	787.585 ng/ul
34) 2-Methylnaphthalene	12.14	142	21878344m	517.110 ng/ul
40) 1,1'-Biophenyl	13.16	154	7211120	127.406 ng/ul 99
47) Acenaphthylene	14.05	152	3092075	45.434 ng/ul# 95
49) Acenaphthene	14.40	153	20764070m	447.876 ng/ul
53) Dibenzofuran	14.73	168	20168364m	294.680 ng/ul
58) Fluorene	15.39	166	22757246m	401.931 ng/ul
68) Pentachlorophenol	16.76	266	36375	3.792 ng/ul 93
69) Phenanthrene	17.12	178	40802124m	561.404 ng/ul
71) Anthracene	17.23	178	14740627m	198.421 ng/ul
72) Carbazole	17.49	167	7904651	123.705 ng/ul 99
74) Fluoranthene	19.14	202	27388354m	307.507 ng/ul
77) Pyrene	19.51	202	24006974m	388.366 ng/ul
80) Benzo(a)anthracene	21.26	228	9796578	151.750 ng/ul 95
82) Chrysene	21.31	228	7610171	127.063 ng/ul 97
85) Benzo(b)fluoranthene	22.83	252	5536136	93.415 ng/ul# 98
86) Benzo(k)fluoranthene	22.87	252	1816866m	32.577 ng/ul
88) Benzo(a)pyrene	23.40	252	3809512	71.558 ng/ul# 96
89) Indeno(1,2,3-cd)pyrene	25.72	276	1728440	32.722 ng/ul# 96
90) Dibenzo(a,h)anthracene	25.72	278	472924	10.515 ng/ul# 86
91) Benzo(a,h,i)perylene	26.41	276	1476756	35.443 ng/ul# 95

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Manual Integrations
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Sohil
12/15/2017 6:49:08 PM

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Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 15 04:56:09 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed