

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052219\
 Data File : BM020503.D
 Acq On : 22 May 2019 22:11
 Operator : JU/SJ
 Sample : K2927-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 23 07:46:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 22 04:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	123	20.00	ng/ul	0.02
18) Naphthalene-d8	10.47	136	252770	20.00	ng/ul	-0.05
35) Acenaphthene-d10	14.34	164	156615	20.00	ng/ul	-0.04
61) Phenanthrene-d10	17.09	188	384482	20.00	ng/ul	-0.04
77) Chrysene-d12	21.29	240	417873	20.00	ng/ul	-0.04
85) Perylene-d12	23.54	264	493688	20.00	ng/ul	-0.06

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.15	96	8171	2451.56	ng/uL	-0.07
5) Phenol-d5	6.85	99	116519	11874.83	ng/ul	-0.04
7) Bis-(2-Chloroethyl)ether-d	7.02	67	73264	11744.72	ng/ul	-0.05
9) 2-Chlorophenol-d4	7.21	132	90969	12640.60	ng/ul	-0.05
13) 4-Methylphenol-d8	8.50	113	289	40.44	ng/ul	0.06
19) Nitrobenzene-d5	8.85	128	39053	23.75	ng/ul	-0.04
22) 2-Nitrophenol-d4	9.56	143	44258	24.40	ng/ul	-0.05
26) 2,4-Dichlorophenol-d3	10.10	165	90852	23.69	ng/ul	-0.04
29) 4-Chloroaniline-d4	10.63	131	52626	13.28	ng/ul	-0.04
43) Dimethylphthalate-d6	13.75	166	261378	23.20	ng/ul	-0.04
46) Acenaphthylene-d8	14.03	160	315379	22.38	ng/ul	-0.04
51) 4-Nitrophenol-d4	14.57	143	21272	13.00	ng/ul	-0.03
57) Fluorene-d10	15.33	176	232498	23.20	ng/ul	-0.04
62) 4,6-Dinitro-2-methylphenol	15.48	200	22400	10.23	ng/ul	-0.04
70) Anthracene-d10	17.19	188	371241	22.51	ng/ul	-0.04
78) Pyrene-d10	19.49	212	439523	21.84	ng/ul	-0.04
89) Benzo(a)pyrene-d12	23.39	264	474729	21.16	ng/ul	-0.06

Target Compounds

					Ovalue	
2) 1,4-Dioxane	3.26	88	1117	321.169	ng/uL#	1
4) Benzaldehyde	6.89	77	113	13.443	ng/ul#	8
6) Phenol	6.88	94	4280	414.644	ng/ul	93
12) 2,2'-oxybis(1-Chloropropan	8.39	45	450	84.831	ng/ul#	44
14) Acetophenone	8.52	105	667	54.673	ng/ul#	72
15) N-Nitroso-di-n-propylamine	8.39	70	2911	418.121	ng/ul#	1
44) Dimethylphthalate	13.80	163	72796	6.531	ng/ul	98
47) Acenaphthylene	14.06	152	25843	1.944	ng/ul	99
49) Acenaphthene	14.40	153	9607	1.051	ng/ul#	89
58) Fluorene	15.39	166	13153	1.187	ng/ul#	95
69) Phenanthrene	17.13	178	192698	10.519	ng/ul	98
71) Anthracene	17.23	178	58947	3.163	ng/ul	100
76) Fluoranthene	19.16	202	384419	16.612	ng/ul	97
79) Pyrene	19.52	202	340211	13.564	ng/ul	99
82) Benzo(a)anthracene	21.27	228	224479	8.925	ng/ul	97
84) Chrysene	21.32	228	200445	8.340	ng/ul	95
87) Benzo(b)fluoranthene	22.86	252	269865	9.578	ng/ul#	97
88) Benzo(k)fluoranthene	22.86	252	269865	9.751	ng/ul#	98
90) Benzo(a)pyrene	23.44	252	196878	7.425	ng/ul	96
91) Indeno(1,2,3-cd)pyrene	25.82	276	143919	4.763	ng/ul#	95
92) Dibenzo(a,h)anthracene	25.82	278	40930	1.584	ng/ul#	82
93) Benzo(a,h,i)perylene	26.52	276	101776	4.069	ng/ul	94

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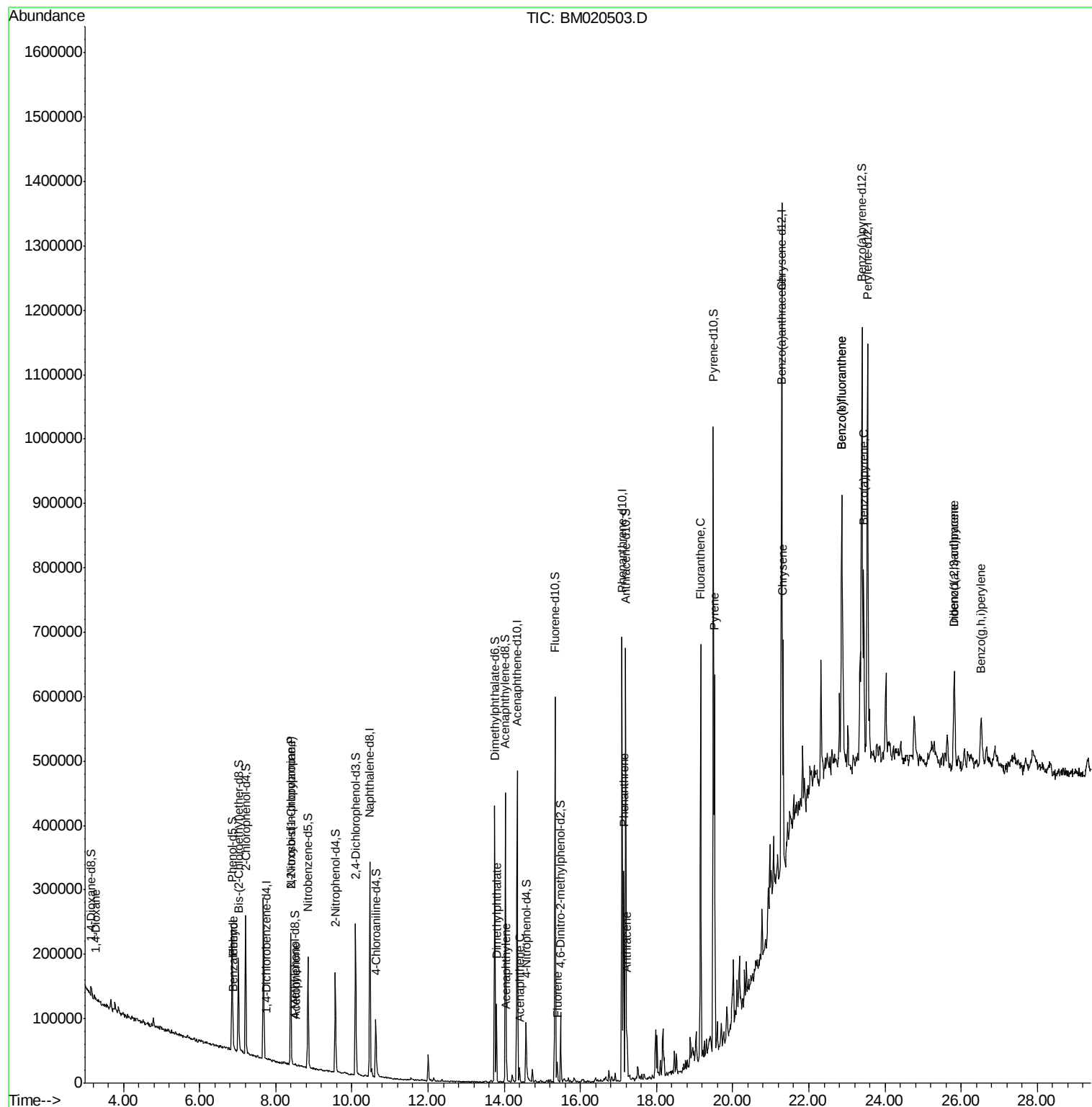
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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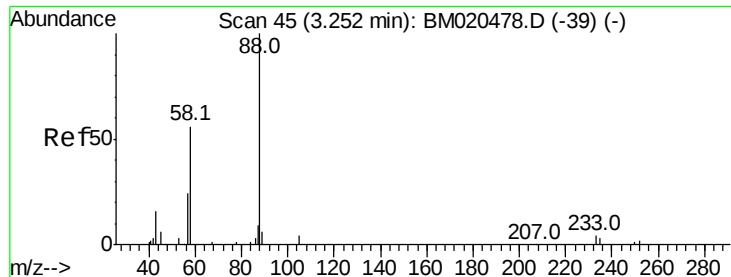
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

1,4-Dioxane

Concen: 321.169 ng/uL

RT: 3.26 min Scan# 46

Delta R.T. 0.01 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

BNA_M

ClientSampleId :

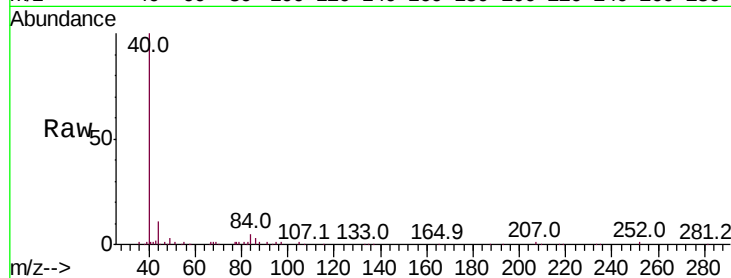
Tot Ion: 88 Resp: 1117

Ion Ratio Lower Upper

88 100

43 245.9 21.4 32.2#

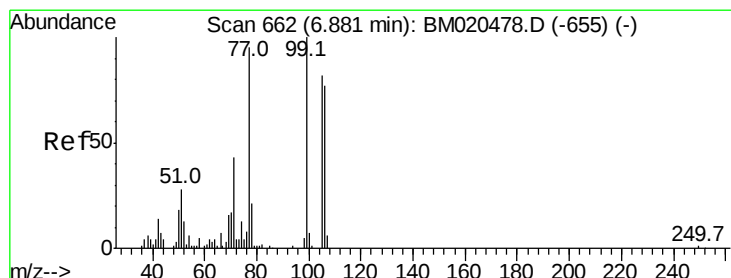
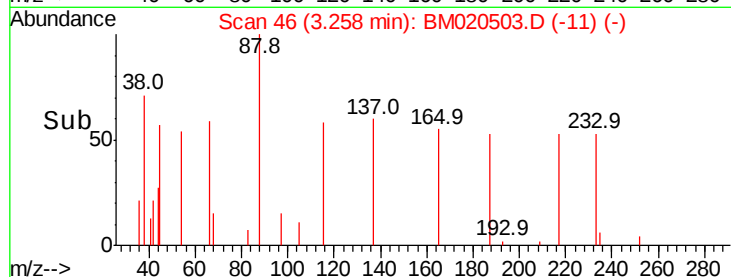
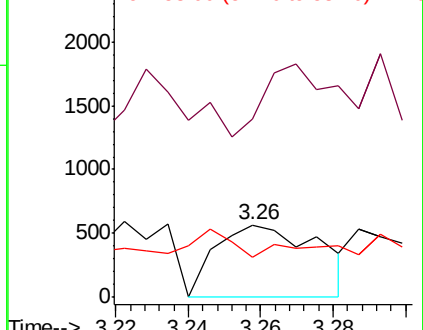
58 55.4 45.1 67.7



Abundance Ion 88.00 (87.70 to 88.70): BM020478.D (-39) (-)

Ion 43.00 (42.70 to 43.70): BM020478.D (-39) (-)

Ion 58.00 (57.70 to 58.70): BM020478.D (-39) (-)



#4

Benzaldehyde

Concen: 13.443 ng/uL

RT: 6.89 min Scan# 663

Delta R.T. 0.01 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

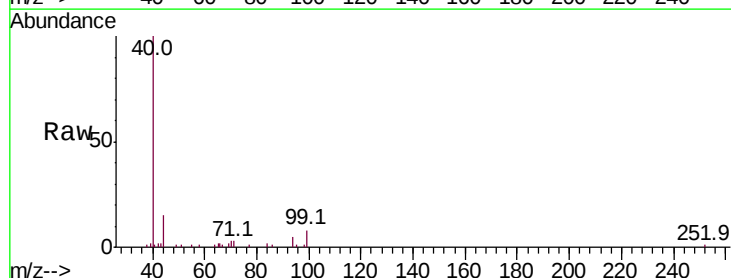
Tgt Ion: 77 Resp: 113

Ion Ratio Lower Upper

77 100

105 0.0 67.4 101.0#

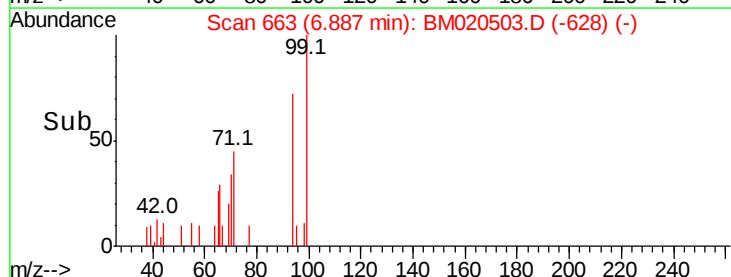
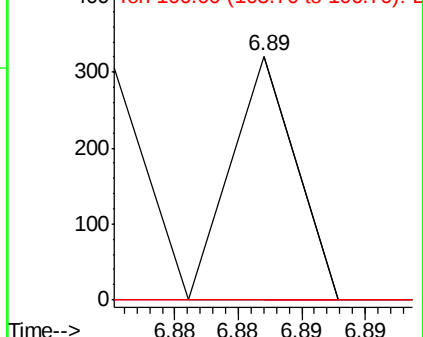
106 0.0 64.8 97.2#

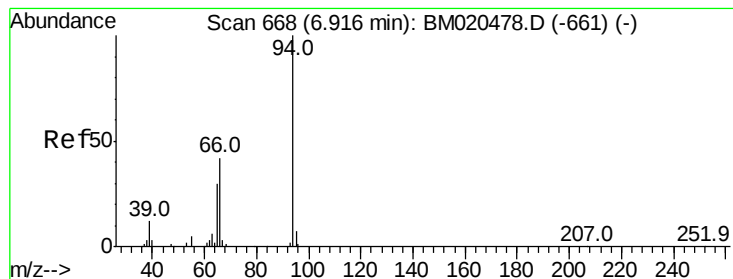


Abundance Ion 77.00 (76.70 to 77.70): BM020478.D (-655) (-)

Ion 105.00 (104.70 to 105.70): BM020478.D (-655) (-)

Ion 106.00 (105.70 to 106.70): BM020478.D (-655) (-)





#6

Phenol

Concen: 414.644 ng/ul

RT: 6.88 min Scan# 661

Delta R.T. -0.05 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

BNA_M

ClientSampleId :

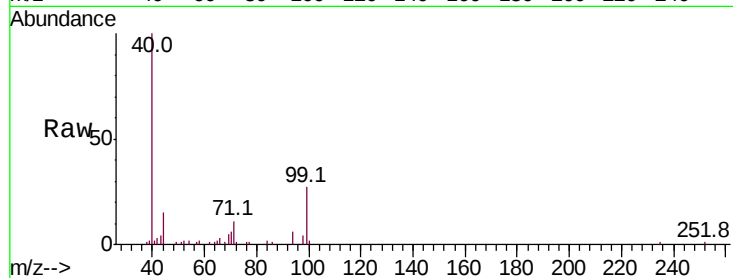
Tot Ion: 94 Resp: 4280

Ion Ratio Lower Upper

94 100

65 34.9 25.4 38.0

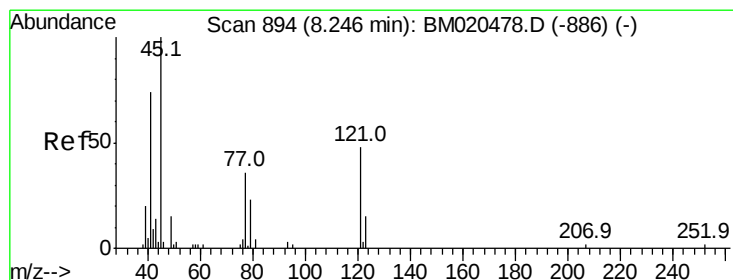
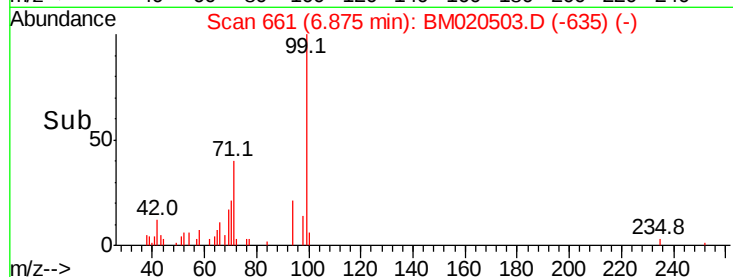
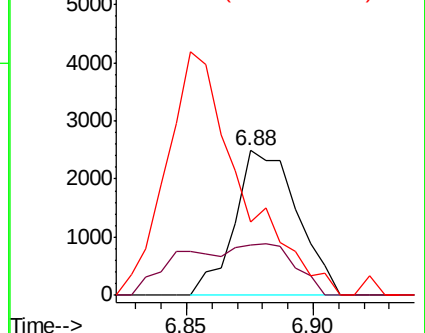
66 50.6 36.5 54.7



Abundance Ion 94.00 (93.70 to 94.70): BM020478.D (-661) (-)

Ion 65.00 (64.70 to 65.70): BM020478.D (-661) (-)

Ion 66.00 (65.70 to 66.70): BM020478.D (-661) (-)



#12

2,2'-oxybis(1-Chloropropane)

Concen: 84.831 ng/ul

RT: 8.39 min Scan# 919

Delta R.T. 0.14 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

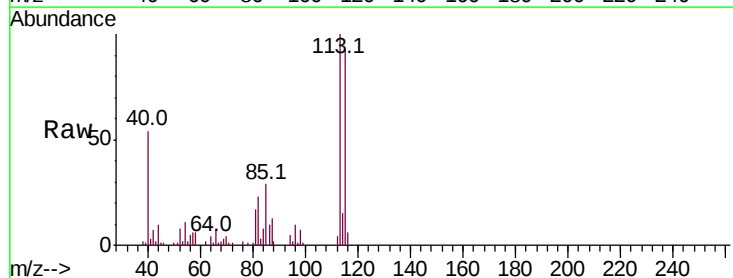
Tgt Ion: 45 Resp: 450

Ion Ratio Lower Upper

45 100

77 0.0 27.6 41.4#

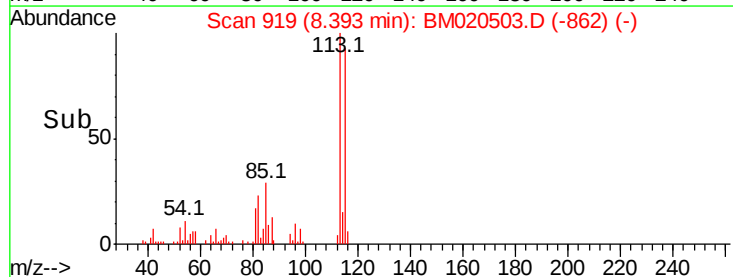
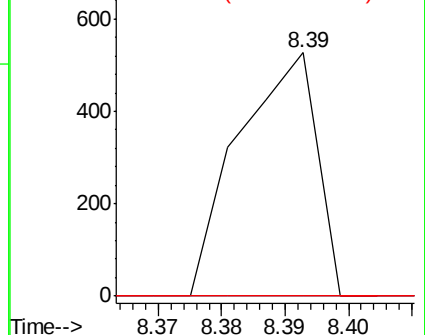
79 0.0 20.5 30.7#

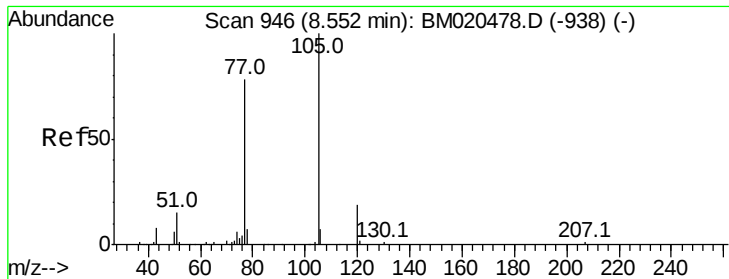


Abundance Ion 45.00 (44.70 to 45.70): BM020478.D (-886) (-)

Ion 77.00 (76.70 to 77.70): BM020478.D (-886) (-)

Ion 79.00 (78.70 to 79.70): BM020478.D (-886) (-)





#14

Acetophenone

Concen: 54.673 ng/ul

RT: 8.52 min Scan# 940

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

BNA_M

ClientSampleId :

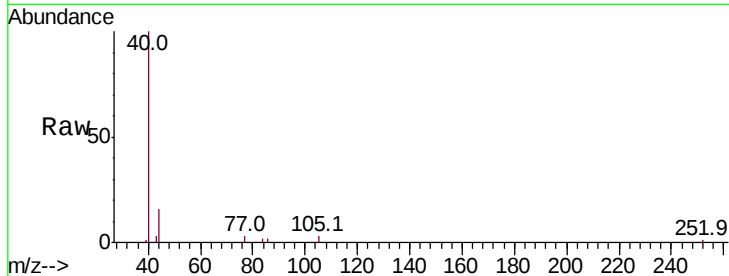
Tot Ion:105 Resp: 667

Ion Ratio Lower Upper

105 100

77 115.6 74.0 111.0#

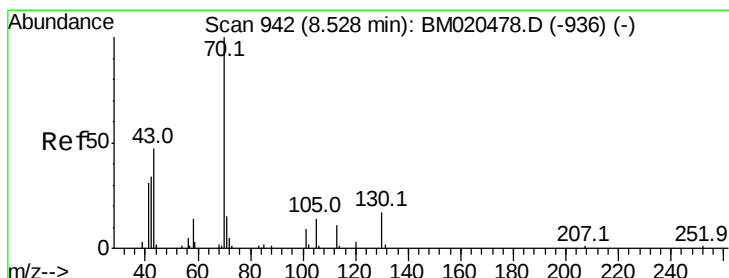
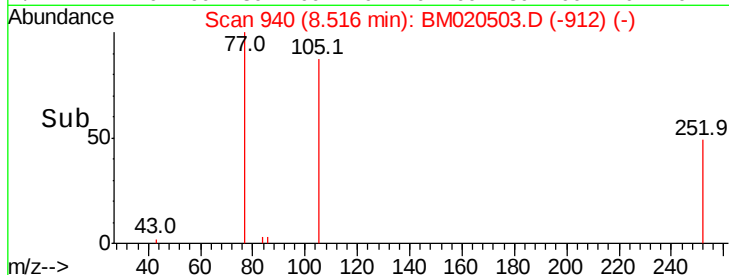
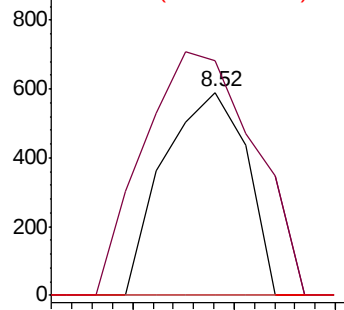
51 0.0 16.5 24.7#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#15

N-Nitroso-di-n-propylamine

Concen: 418.121 ng/ul

RT: 8.39 min Scan# 919

Delta R.T. -0.14 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Tgt Ion: 70 Resp: 2911

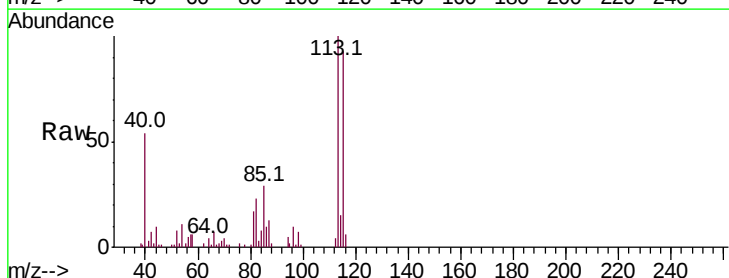
Ion Ratio Lower Upper

70 100

42 185.2 26.5 39.7#

101 0.0 7.2 10.8#

130 0.0 12.9 19.3#

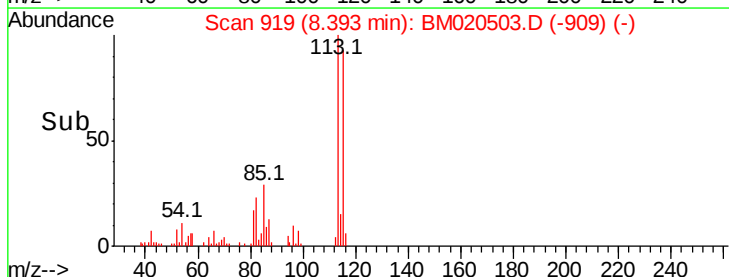
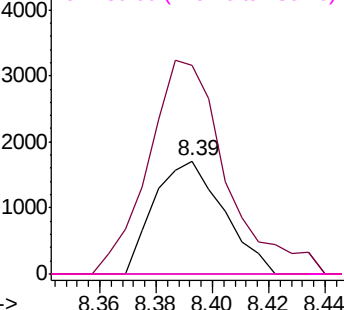


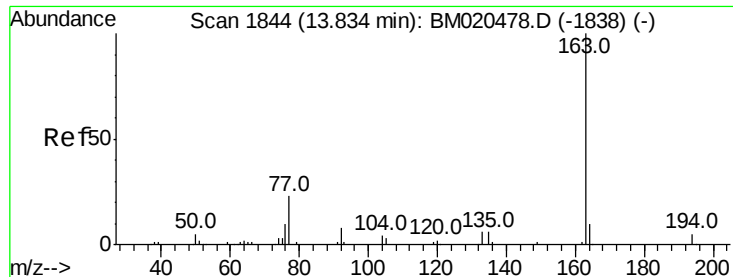
Abundance Ion 70.00 (69.70 to 70.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#44

Dimethylphthalate

Concen: 6.531 ng/ul

RT: 13.80 min Scan# 1838

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

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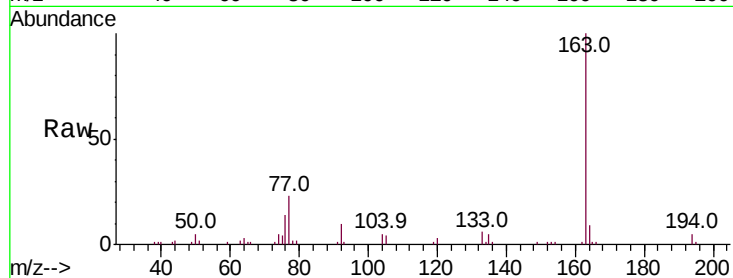
Tot Ion:163 Resp: 72796

Ion Ratio Lower Upper

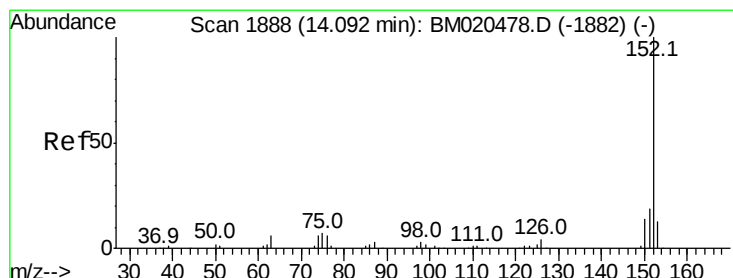
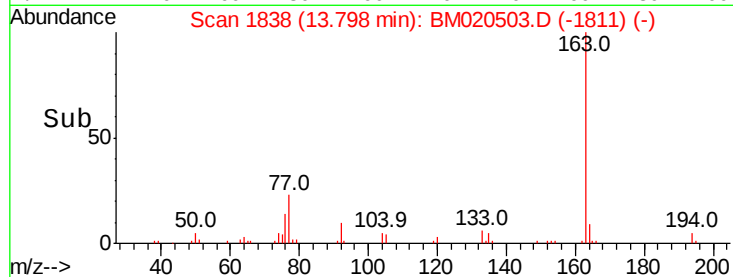
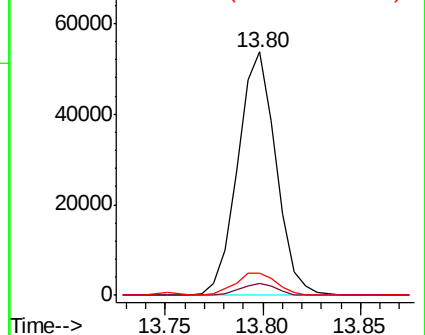
163 100

194 4.7 3.3 4.9

164 9.2 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 1.944 ng/ul

RT: 14.06 min Scan# 1883

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

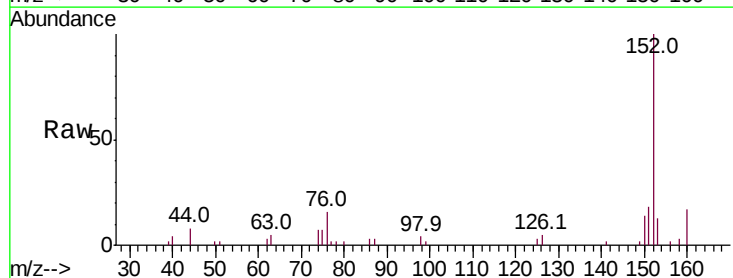
Tgt Ion:152 Resp: 25843

Ion Ratio Lower Upper

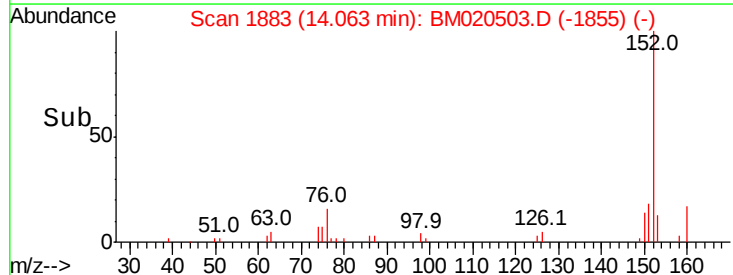
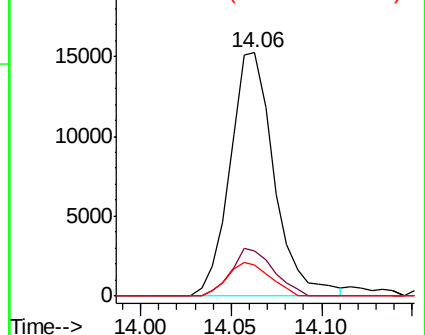
152 100

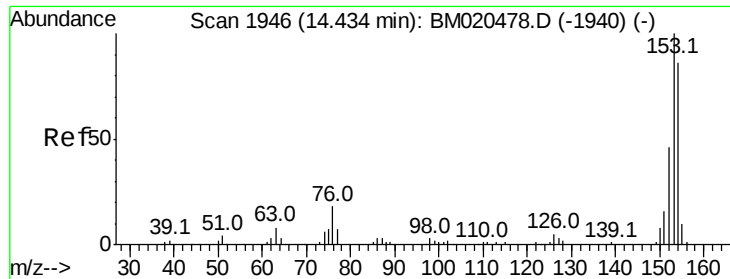
151 18.5 15.4 23.0

153 12.7 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 1.051 ng/ul

RT: 14.40 min Scan# 1940

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

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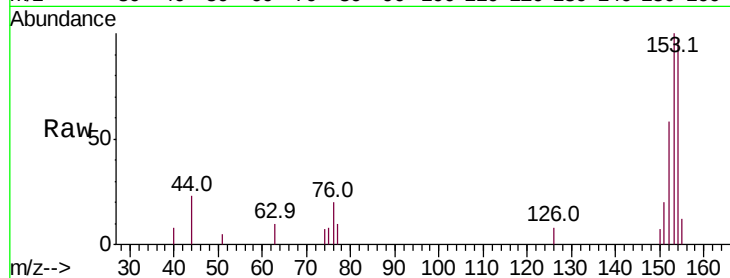
Tot Ion:153 Resp: 9607

Ion Ratio Lower Upper

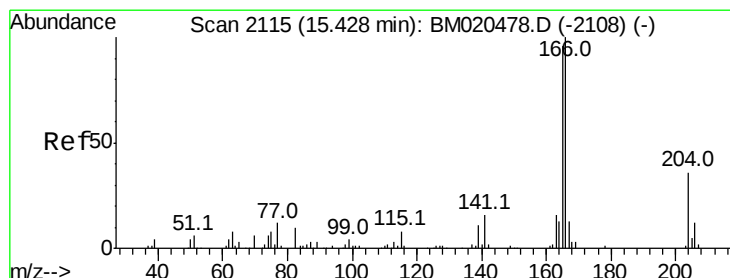
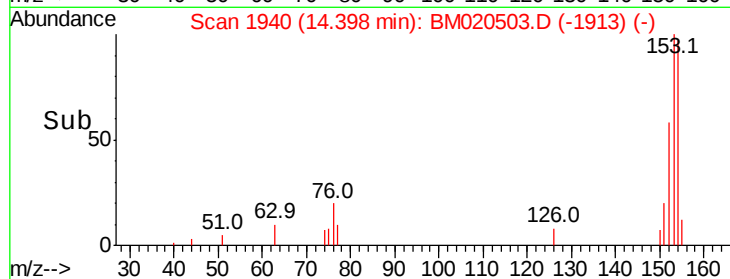
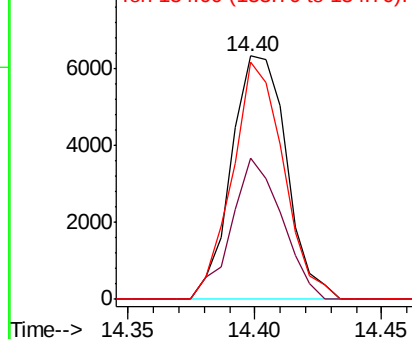
153 100

152 57.9 37.9 56.9#

154 97.4 71.2 106.8



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#58

Fluorene

Concen: 1.187 ng/ul

RT: 15.39 min Scan# 2109

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

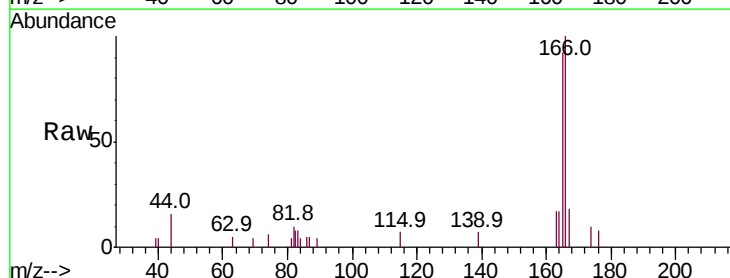
Tgt Ion:166 Resp: 13153

Ion Ratio Lower Upper

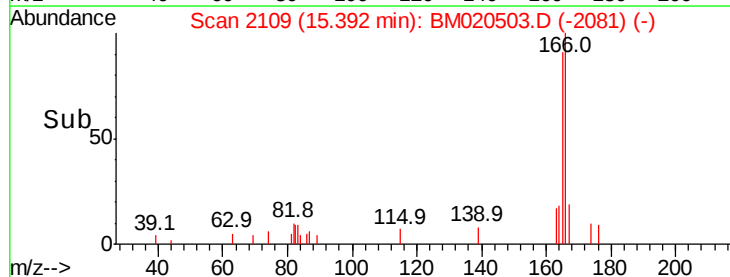
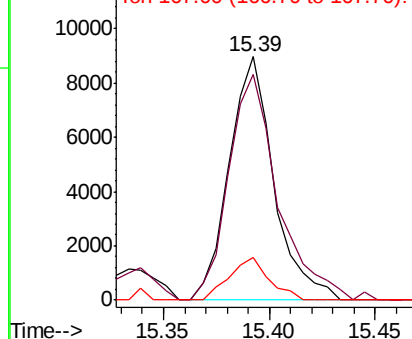
166 100

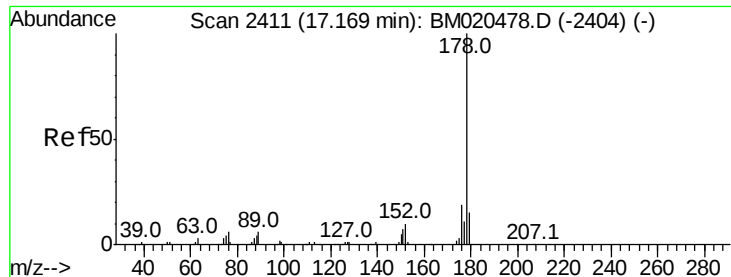
165 92.5 77.1 115.7

167 17.7 11.1 16.7#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 10.519 ng/ul

RT: 17.13 min Scan# 2405

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

BNA_M

ClientSampleId :

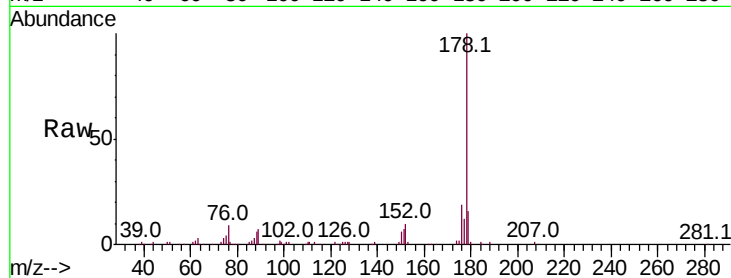
Tot Ion:178 Resp: 192698

Ion Ratio Lower Upper

178 100

179 16.1 11.9 17.9

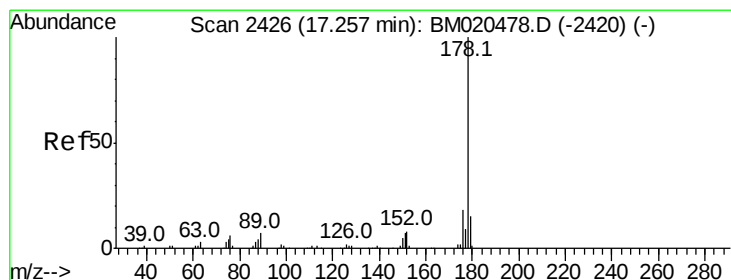
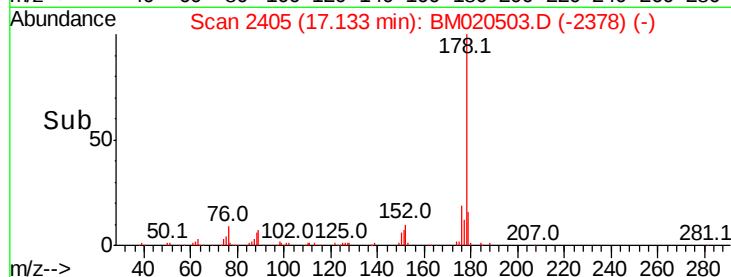
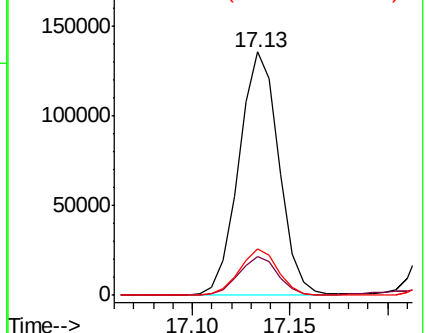
176 19.0 14.6 22.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 3.163 ng/ul

RT: 17.23 min Scan# 2421

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

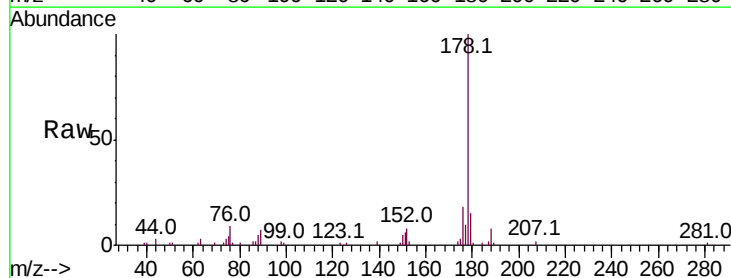
Tgt Ion:178 Resp: 58947

Ion Ratio Lower Upper

178 100

179 15.2 12.4 18.6

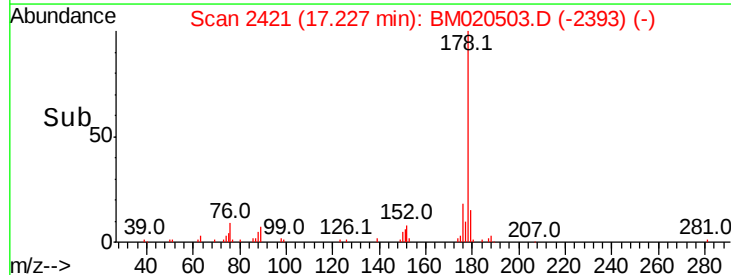
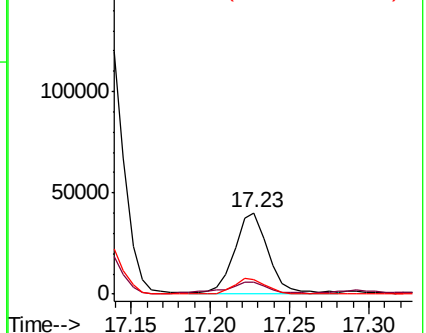
176 18.0 14.4 21.6

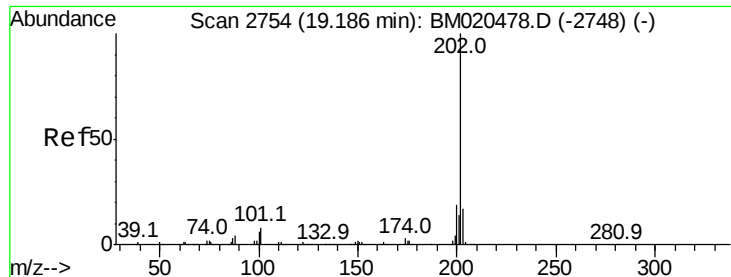


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#76

Fluoranthene

Concen: 16.612 ng/ul

RT: 19.16 min Scan# 2749

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

BNA_M

ClientSampleId :

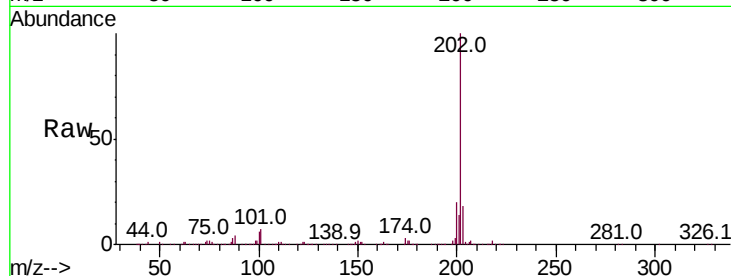
Tot Ion:202 Resp: 384419

Ion Ratio Lower Upper

202 100

101 6.8 6.4 9.6

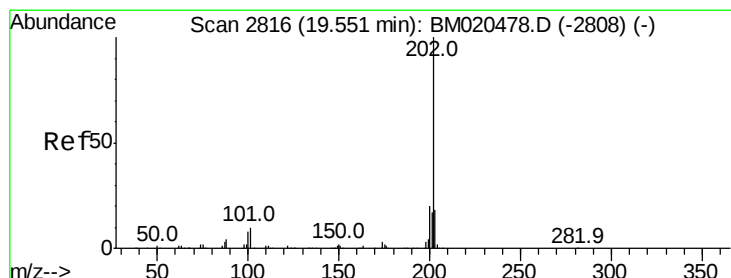
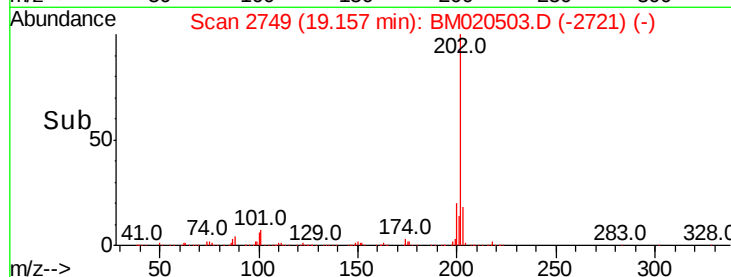
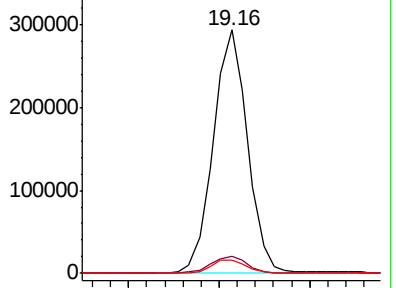
100 5.6 5.2 7.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 13.564 ng/ul

RT: 19.52 min Scan# 2811

Delta R.T. -0.04 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

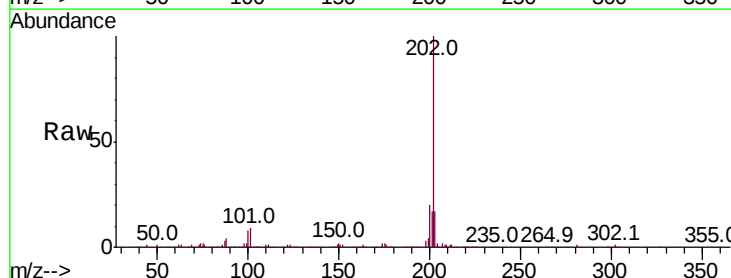
Tgt Ion:202 Resp: 340211

Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

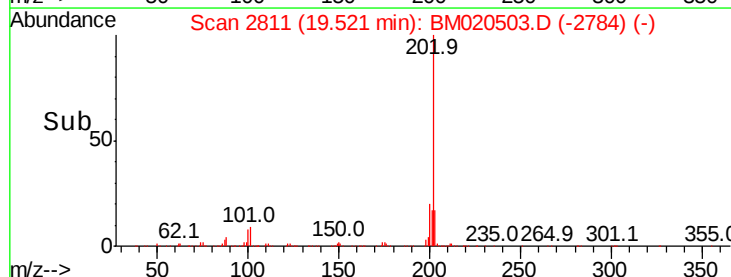
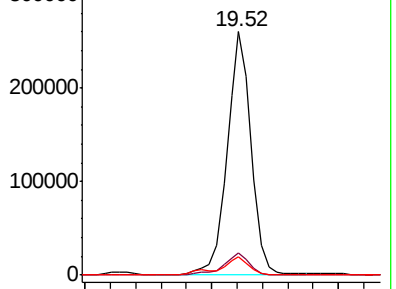
100 7.5 5.9 8.9

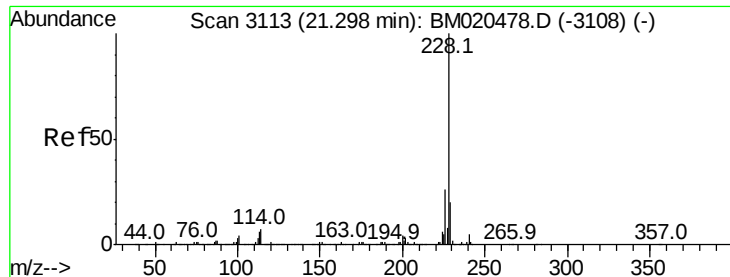


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

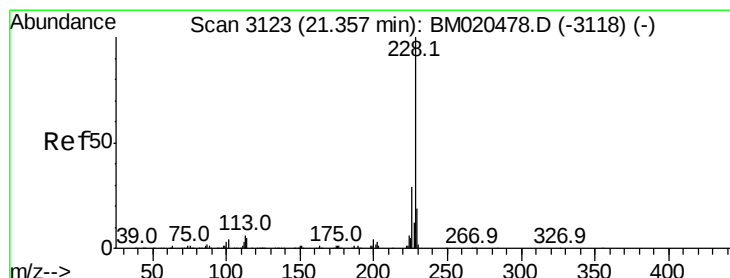
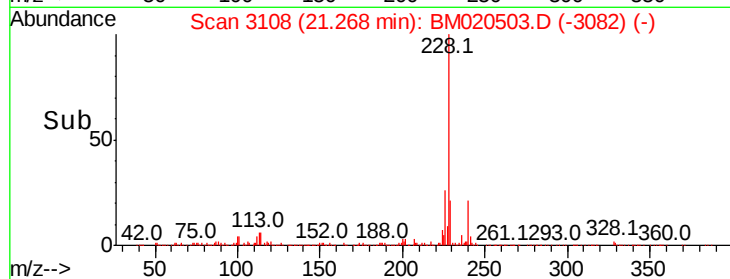
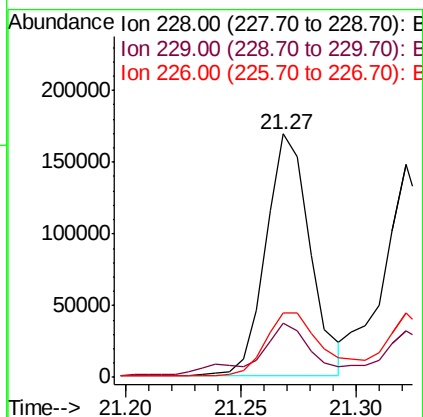
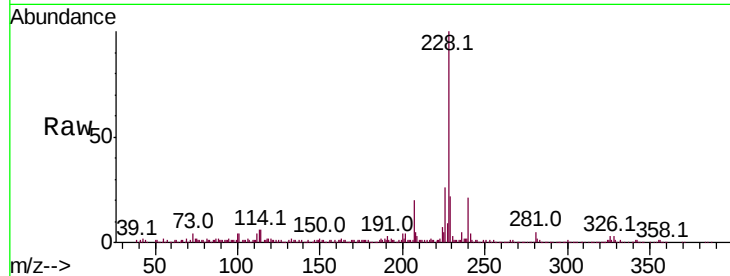




#82
Benzo(a)anthracene
Concen: 8.925 ng/ul
RT: 21.27 min Scan# 3108
Delta R.T. -0.05 min
Lab File: BM020503.D
Acq: 22 May 2019 22:11

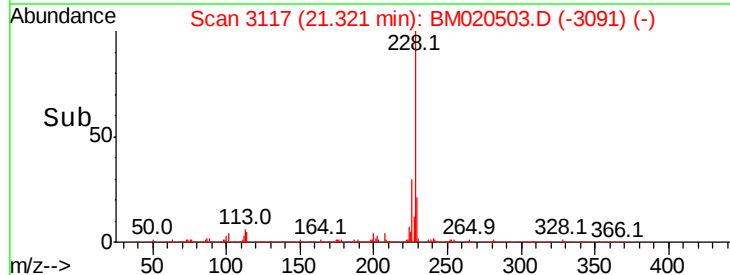
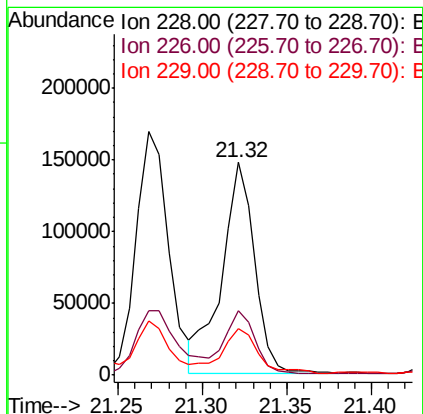
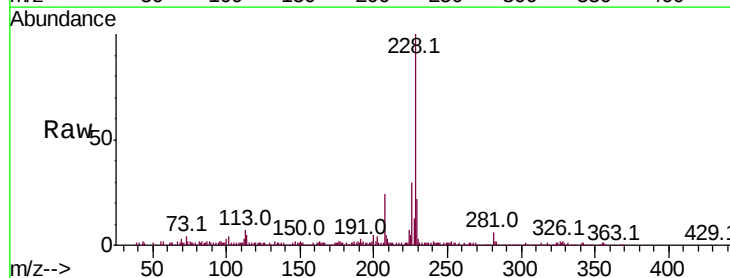
Instrument :
BNA_M
ClientSampleId :

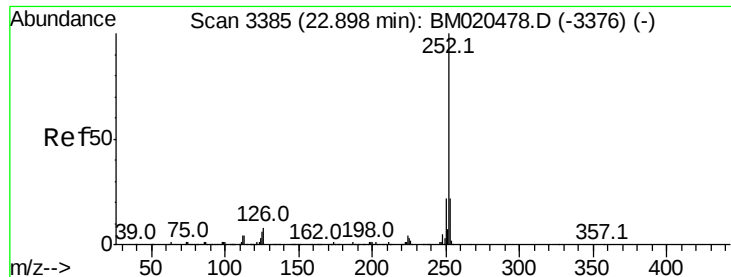
Tot Ion:	228	Resp:	224479
Ion	Ratio	Lower	Upper
228	100		
229	22.1	15.8	23.8
226	26.5	20.6	30.8



#84
Chrysene
Concen: 8.340 ng/ul
RT: 21.32 min Scan# 3117
Delta R.T. -0.05 min
Lab File: BM020503.D
Acq: 22 May 2019 22:11

Tgt Ion:	228	Resp:	200445
Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.2	33.4
229	22.0	15.4	23.2

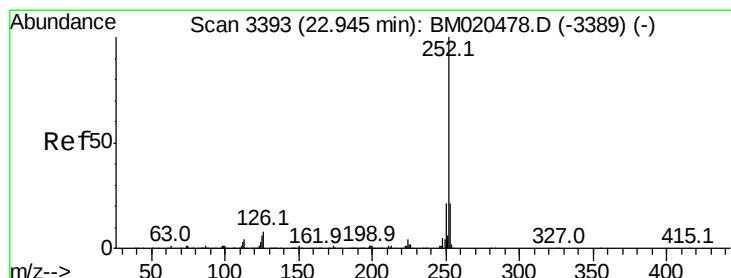
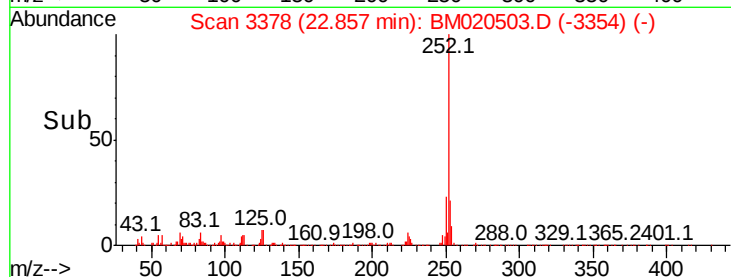
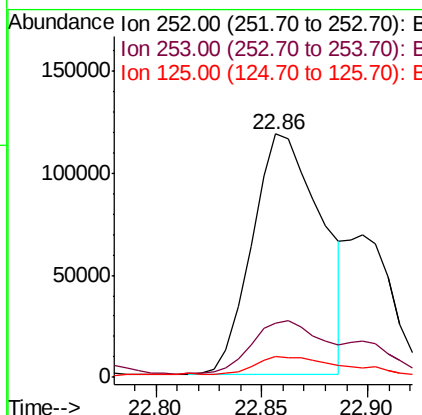
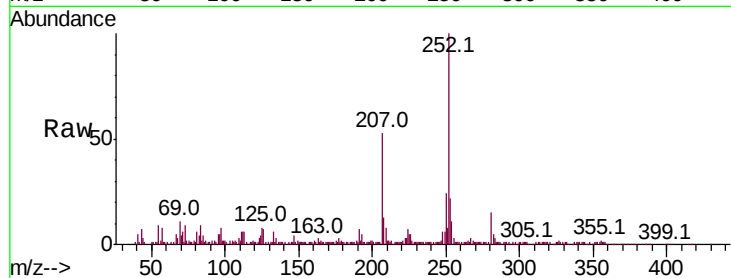




#87
Benzo(b)fluoranthene
Concen: 9.578 ng/ul
RT: 22.86 min Scan# 3378
Delta R.T. -0.06 min
Lab File: BM020503.D
Acq: 22 May 2019 22:11

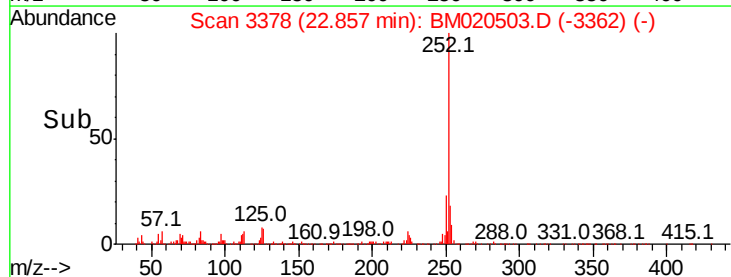
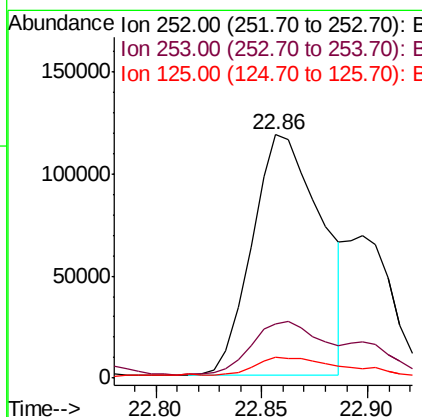
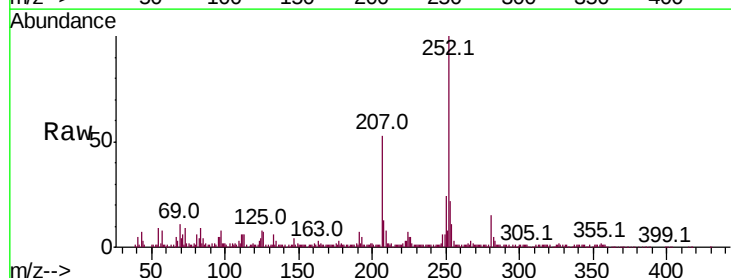
Instrument :
BNA_M
ClientSampleId :

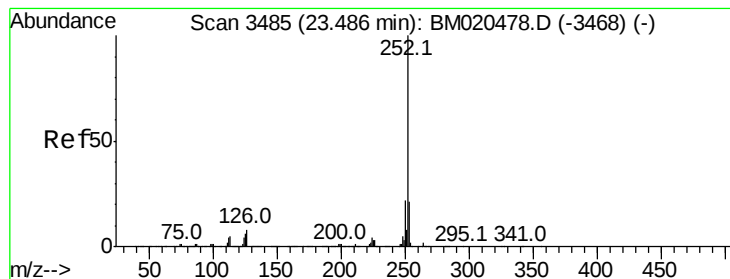
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.6
125	8.5	5.0	7.4



#88
Benzo(k)fluoranthene
Concen: 9.751 ng/ul
RT: 22.86 min Scan# 3378
Delta R.T. -0.11 min
Lab File: BM020503.D
Acq: 22 May 2019 22:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.5	5.0	7.6





#90

Benzo(a)pyrene

Concen: 7.425 ng/ul

RT: 23.44 min Scan# 3477

Delta R.T. -0.06 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

BNA_M

ClientSampleId :

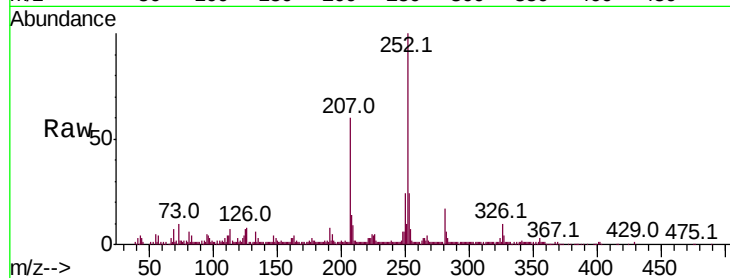
Tot Ion:252 Resp: 196878

Ion Ratio Lower Upper

252 100

253 24.1 17.4 26.2

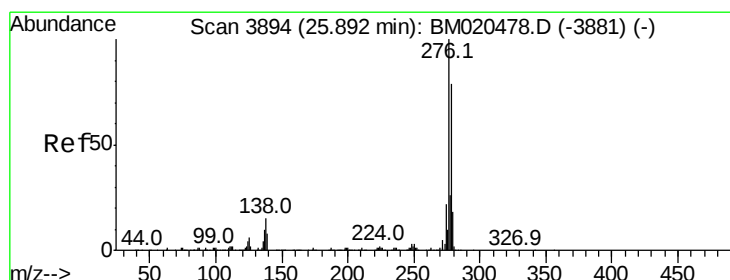
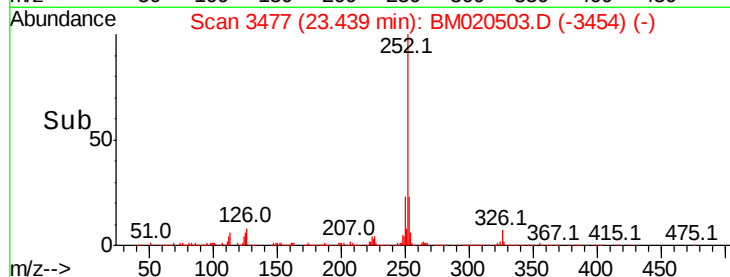
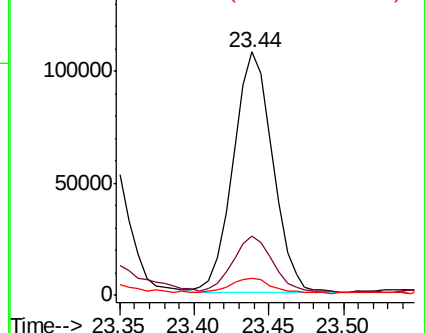
125 7.2 5.4 8.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Indeno(1,2,3-cd)pyrene

Concen: 4.763 ng/ul

RT: 25.82 min Scan# 3881

Delta R.T. -0.10 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

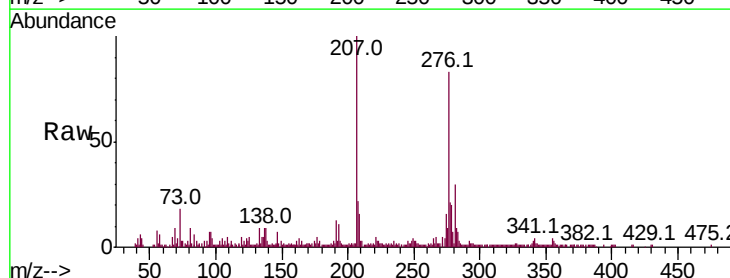
Tgt Ion:276 Resp: 143919

Ion Ratio Lower Upper

276 100

138 10.9 12.3 18.5#

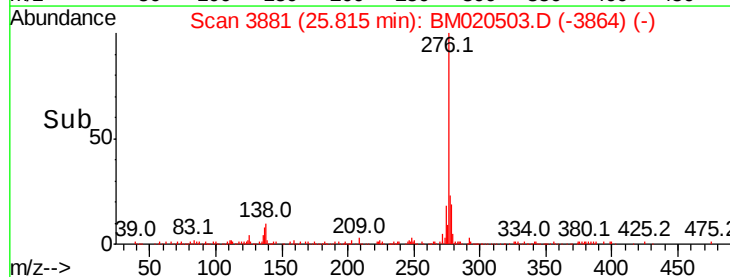
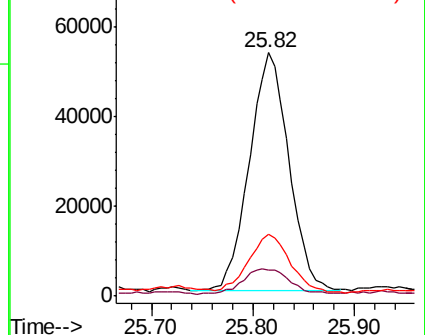
277 25.5 20.0 30.0

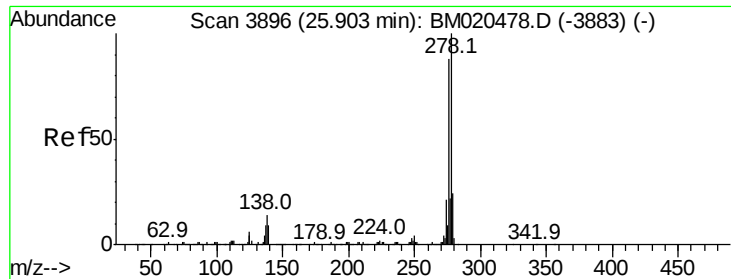


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 1.584 ng/ul

RT: 25.82 min Scan# 3881

Delta R.T. -0.11 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

Instrument :

BNA_M

ClientSampleId :

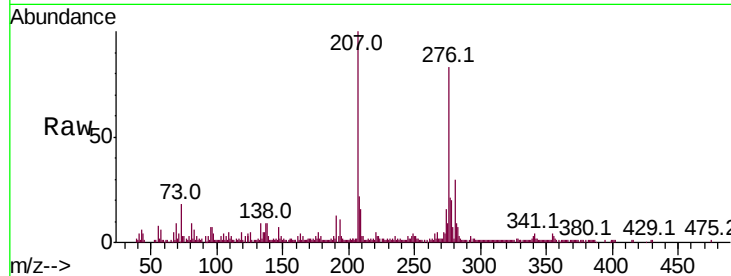
Tot Ion:278 Resp: 40930

Ion Ratio Lower Upper

278 100

139 15.0 8.1 12.1#

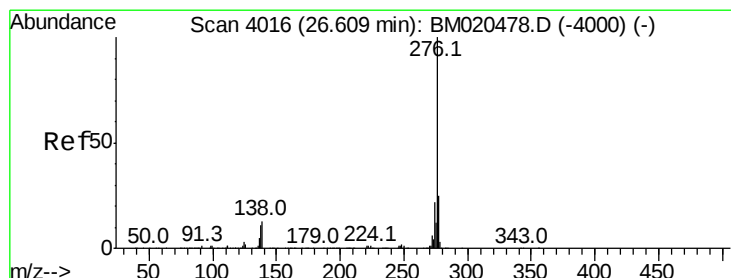
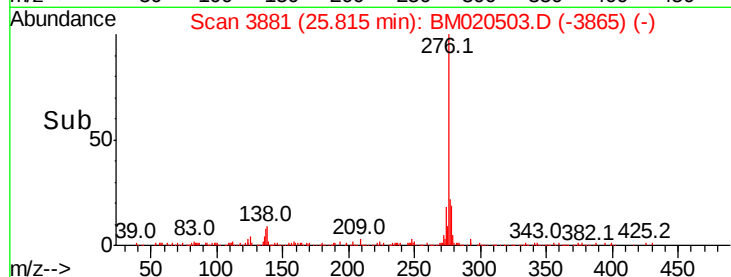
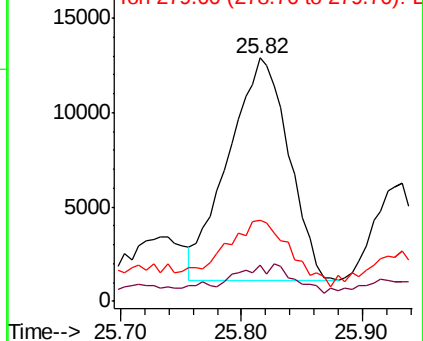
279 33.1 18.7 28.1#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#93

Benzo(g,h,i)perylene

Concen: 4.069 ng/ul

RT: 26.52 min Scan# 4001

Delta R.T. -0.11 min

Lab File: BM020503.D

Acq: 22 May 2019 22:11

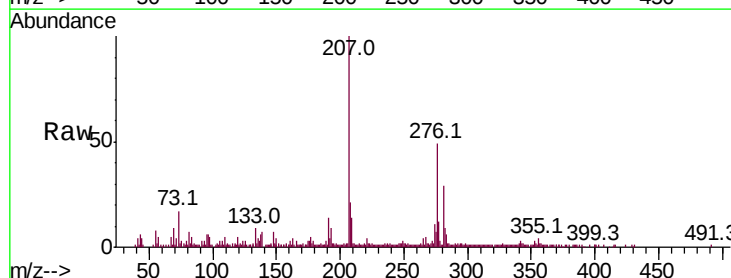
Tgt Ion:276 Resp: 101776

Ion Ratio Lower Upper

276 100

138 14.6 10.0 15.0

277 25.8 18.2 27.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

