

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
 Data File : BM022440.D
 Acq On : 30 Aug 2019 13:58
 Operator : HP/JU
 Sample : K4594-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-1.0-1.5-082819

Manual Integrations
 APPROVED

mohammad
 8/31/2019 2:43:50 PM

Quant Time: Aug 30 15:43:52 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 29 16:51:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	17157	20.00	ng	-0.01
21) Naphthalene-d8	10.29	136	64188	20.00	ng	-0.01
39) Acenaphthene-d10	14.18	164	41488	20.00	ng	0.00
64) Phenanthrene-d10	16.94	188	97887	20.00	ng	0.00
76) Chrysene-d12	21.17	240	123104	20.00	ng	0.00
87) Perylene-d12	23.35	264	139303	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	98543	100.82	ng	0.00
7) Phenol-d6	6.72	99	128297	98.16	ng	0.00
23) Nitrobenzene-d5	8.69	82	95155	64.93	ng	0.00
42) 2,4,6-Tribromophenol	15.69	330	77633	91.44	ng	0.00
45) 2-Fluorobiphenyl	12.78	172	193841	52.93	ng	-0.01
79) Terphenyl-d14	19.59	244	384469	41.22	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.75	94	6960	5.300	ng	88
31) Naphthalene	10.33	128	10133	3.035	ng	96
50) Dimethylphthalate	13.66	163	24142	6.690	ng	99
52) Acenaphthene	14.25	154	35759	14.677	ng	98
55) Dibenzofuran	14.59	168	28484	6.940	ng	96
58) Fluorene	15.24	166	43024	11.733	ng	99
71) Phenanthrene	16.99	178	805927	141.247	ng	100
72) Anthracene	17.08	178	137237	24.446	ng	97
73) Carbazole	17.37	167	83390	17.971	ng	97
75) Fluoranthene	19.03	202	1562567	205.642	ng	99
78) Pyrene	19.39	202	1113753	132.755	ng	99
81) Benzo(a)anthracene	21.15	228	542076	61.349	ng	99
83) Chrysene	21.20	228	509952	60.634	ng	96
84) Bis(2-ethylhexyl)phthalate	21.07	149	11679	2.938	ng	93
86) Indeno(1,2,3-cd)pyrene	25.53	276	328512	38.833	ng	98
88) Benzo(b)fluoranthene	22.71	252	697019	72.025	ng	# 99
89) Benzo(k)fluoranthene	22.74	252	207654m	21.630	ng	99
90) Benzo(a)pyrene	23.26	252	468454	54.536	ng	99
91) Dibenzo(a,h)anthracene	25.53	278	85700	10.005	ng	# 92
92) Benzo(a,h,i)perylene	26.20	276	308885	41.378	ng	99

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

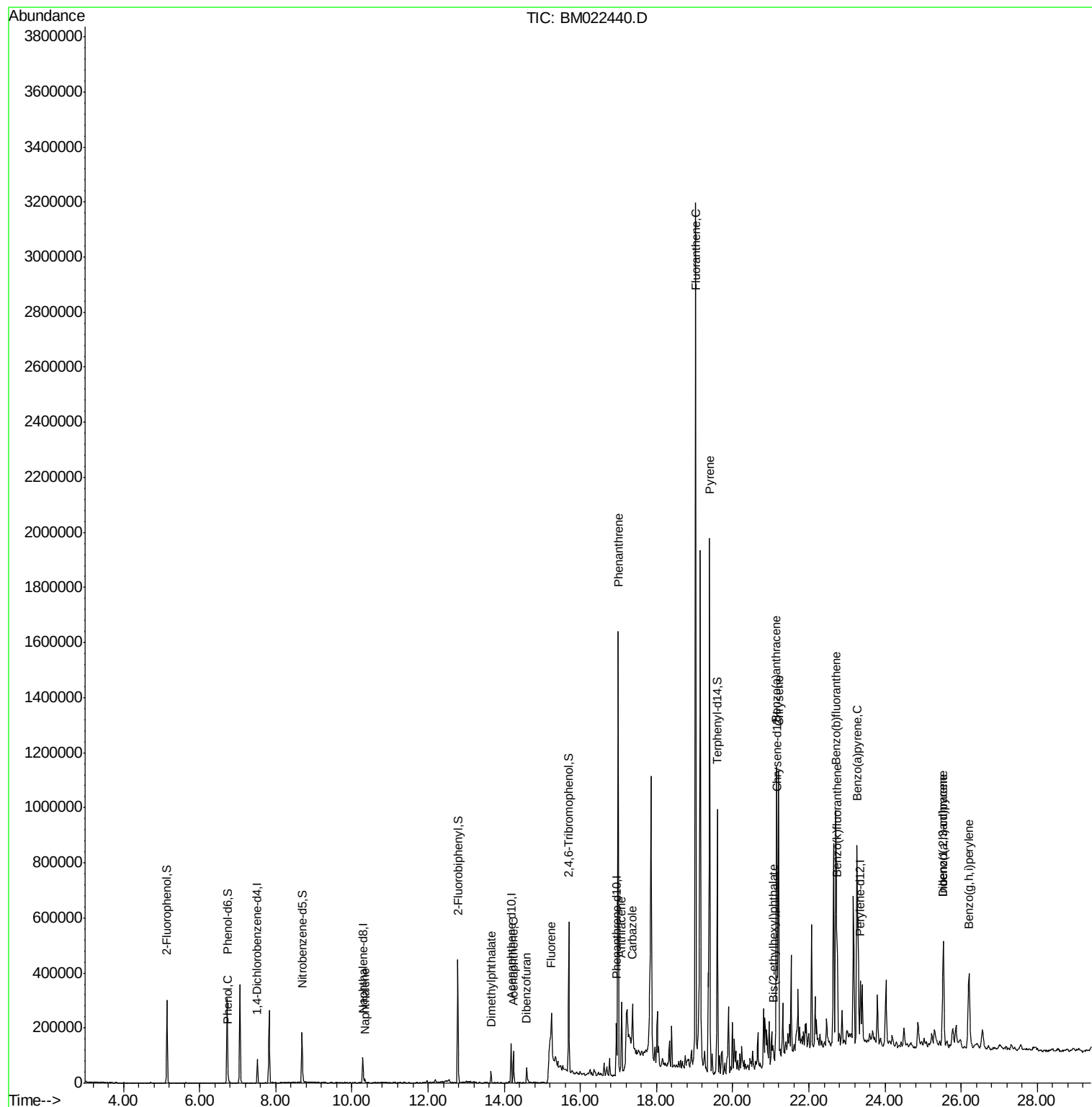
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM083019\
Data File : BM022440.D
Acq On : 30 Aug 2019 13:58
Operator : HP/JU
Sample : K4594-02
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ALS Vial : 10 Sample Multiplier: 1

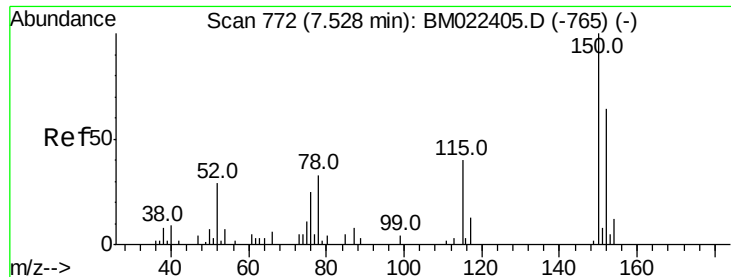
Instrument :
BNA_M
ClientSampleId :
S704A-N-1.0-1.5-082819

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#1

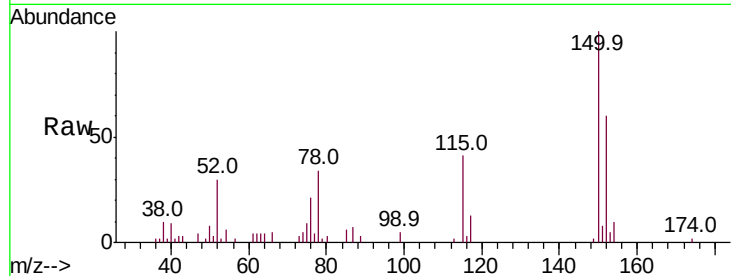
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 770
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Instrument :
BNA_M
ClientSampleId :
S704A-N-1.0-1.5-082819

Tot Ion	Ratio	Lower	Upper
152	100		
150	167.8	125.4	188.0
115	69.3	50.3	75.5

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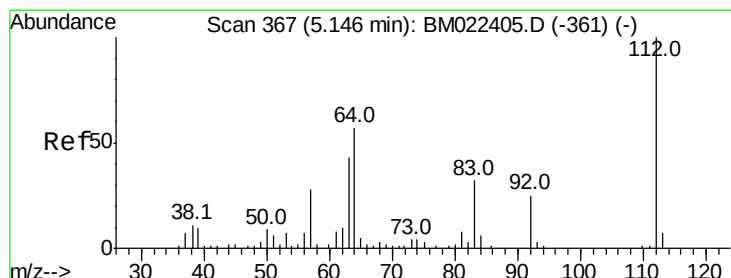
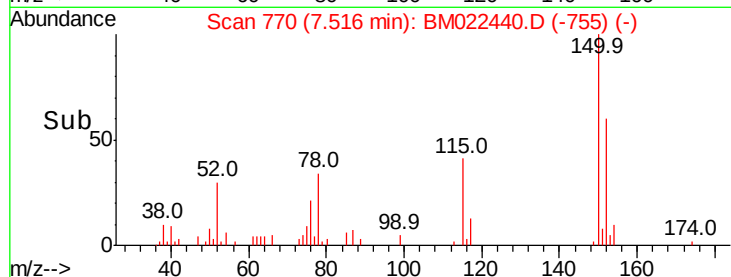
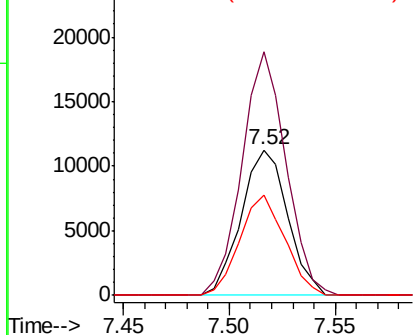


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

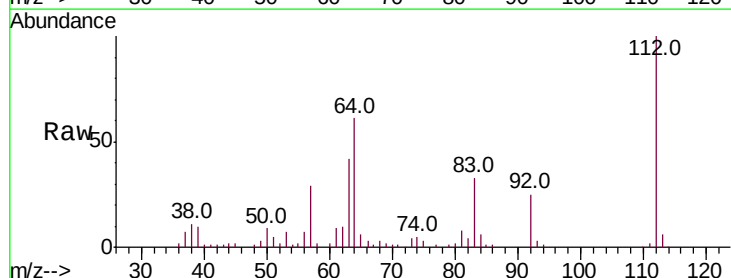
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 100.819 ng
RT: 5.15 min Scan# 367
Delta R.T. -0.00 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.4	45.4	68.2
63	42.4	34.5	51.7

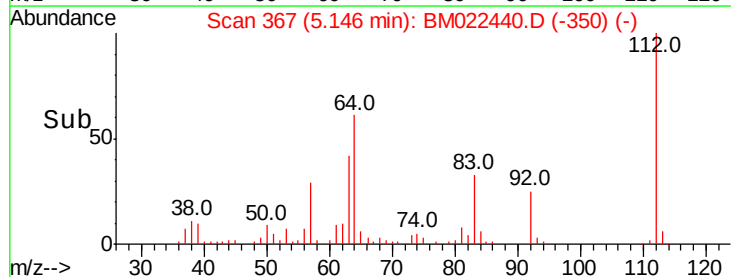
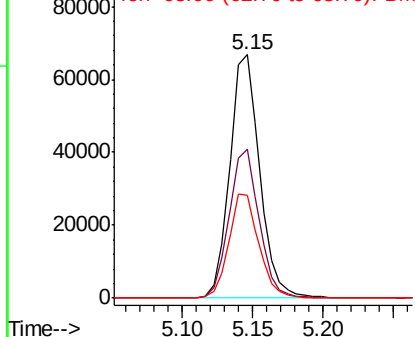


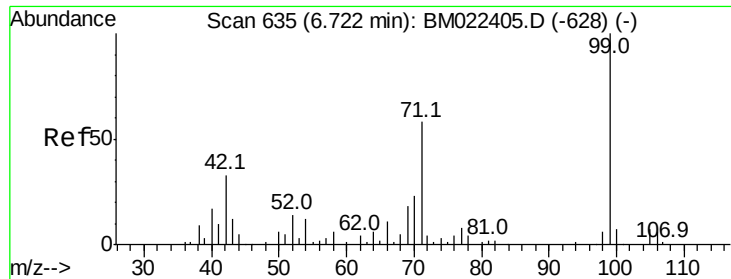
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 98.156 ng

RT: 6.72 min Scan# 635

Delta R.T. -0.00 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

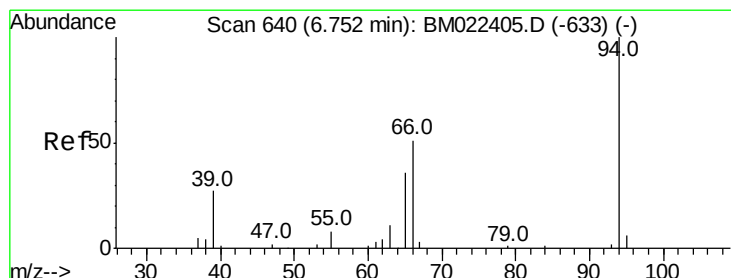
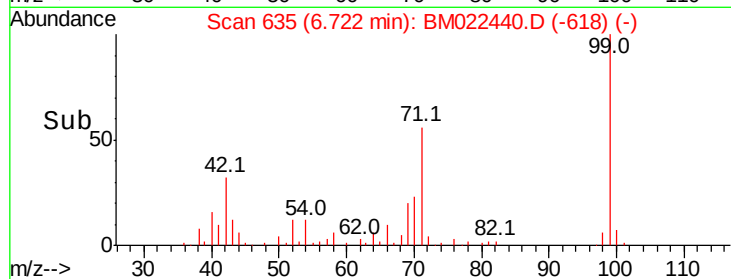
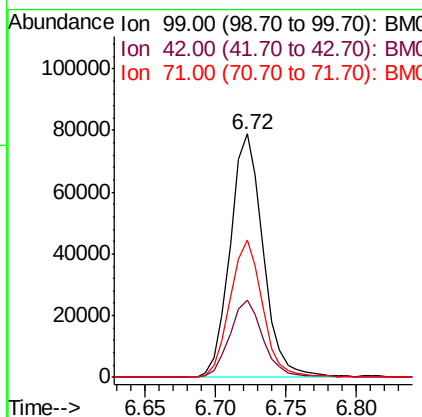
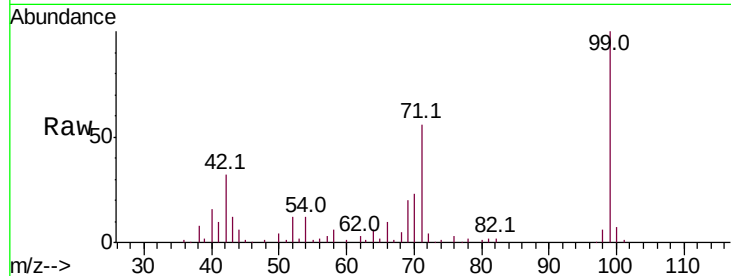
ClientSampleId :

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Tot Ion	99	Resp	128297
Ion Ratio	Lower	Upper	
99	100		
42	31.9	26.3	39.5
71	56.5	46.6	69.8

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#10

Phenol

Concen: 5.300 ng

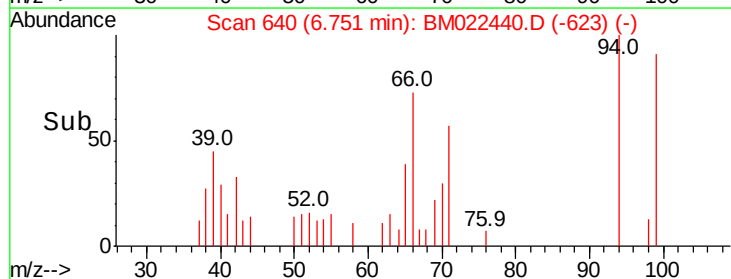
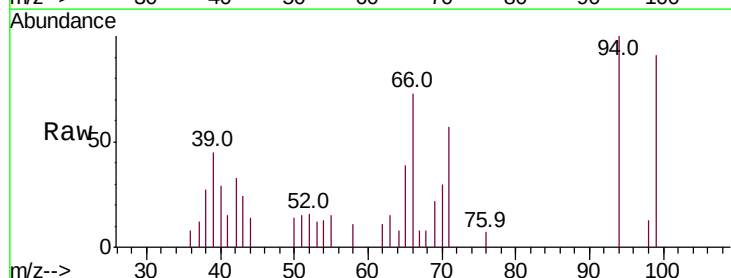
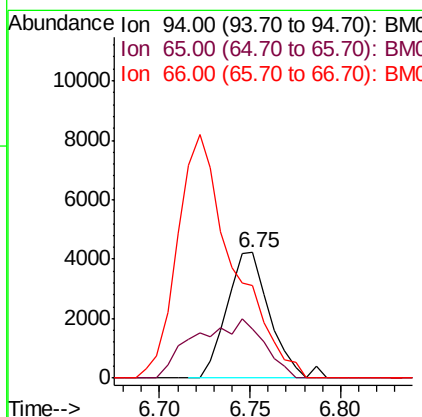
RT: 6.75 min Scan# 640

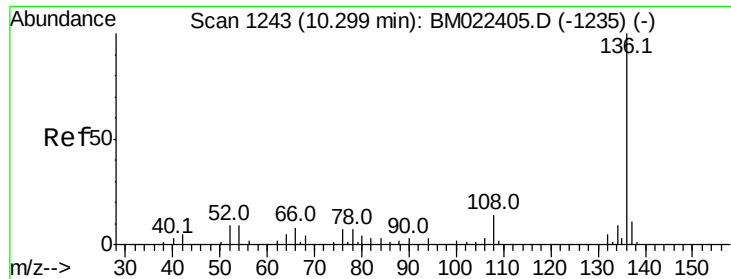
Delta R.T. -0.00 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion	94	Resp	6960
Ion Ratio	Lower	Upper	
94	100		
65	38.7	17.7	57.7
66	73.3	39.6	79.6





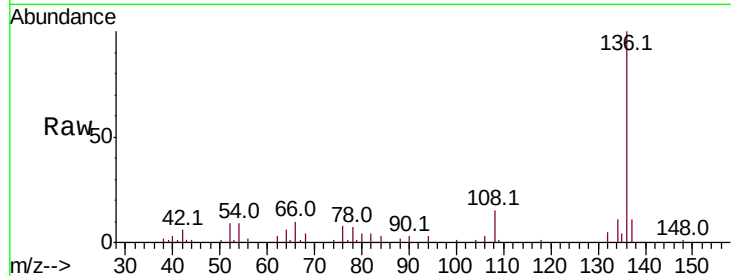
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.29 min Scan# 1241
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Instrument :
BNA_M
ClientSampleId :
S704A-N-1.0-1.5-082819

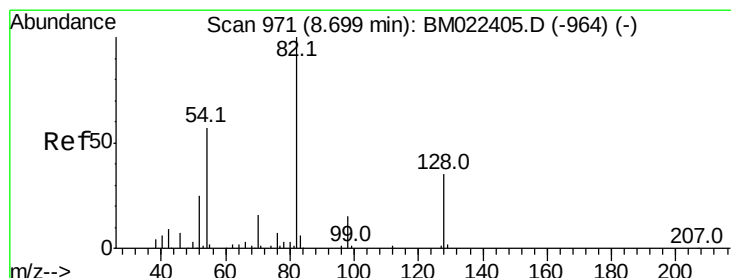
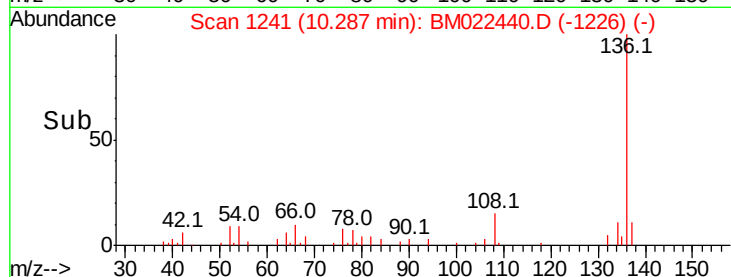
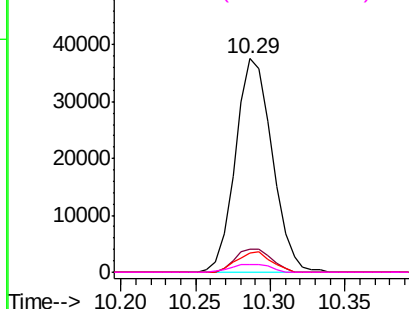
Tot Ion	Ratio	Resp	Lower	Upper
136	100	64188		
137	10.7		8.6	13.0
54	8.8		7.0	10.6
68	3.7		2.9	4.3

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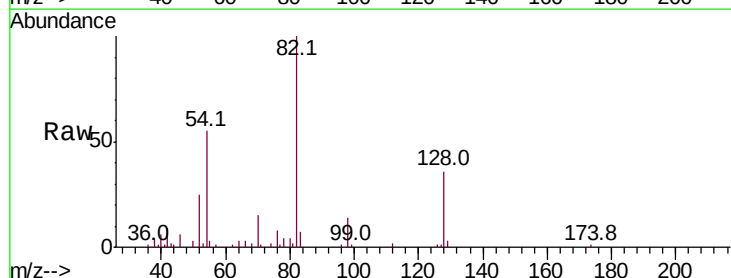


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM
Ion 68.00 (67.70 to 68.70): BM

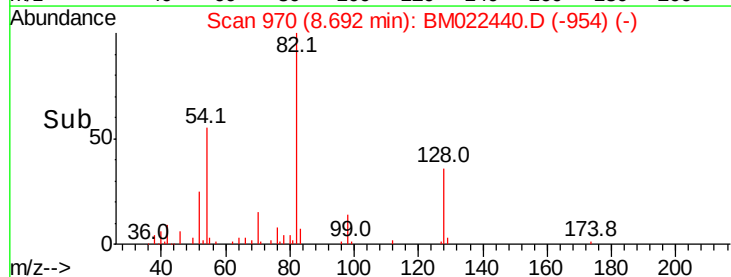
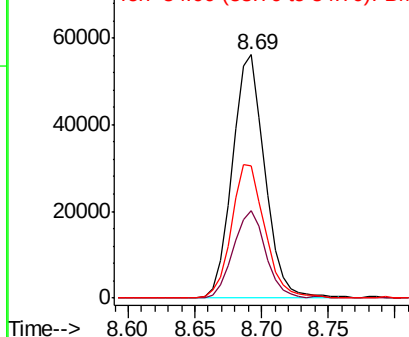


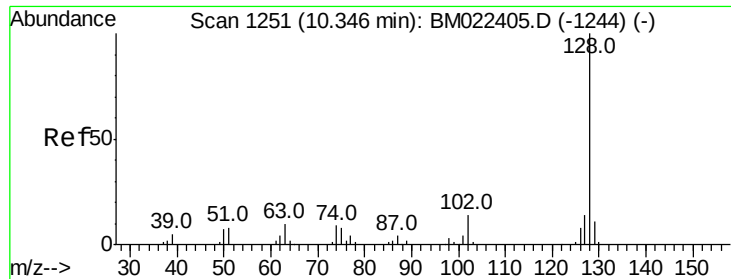
#23
Nitrobenzene-d5
Concen: 64.932 ng
RT: 8.69 min Scan# 970
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	95155		
128	35.7		27.9	41.9
54	54.5		45.2	67.8



Abundance Ion 82.00 (81.70 to 82.70): BM
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BM





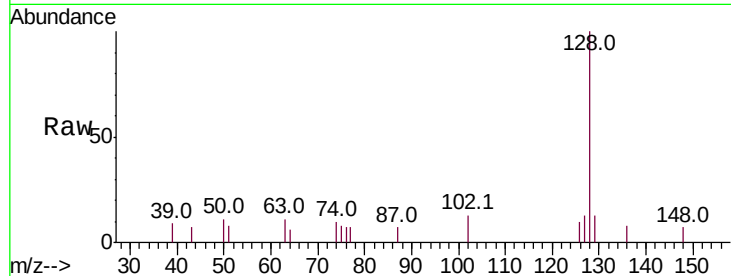
#31
Naphthalene
Concen: 3.035 ng
RT: 10.33 min Scan# 1249
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Instrument :
BNA_M
ClientSampleId :
S704A-N-1.0-1.5-082819

Tot Ion	Ratio	Lower	Upper
128	100		
129	13.3	9.0	13.4
127	12.7	11.0	16.4

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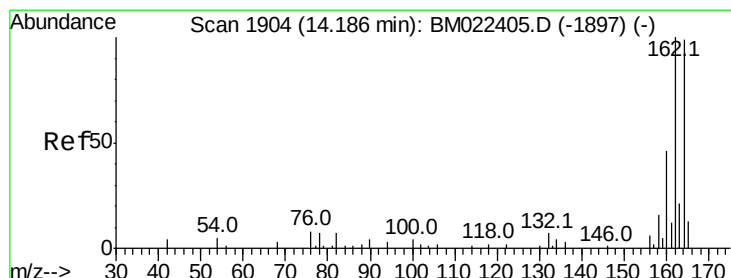
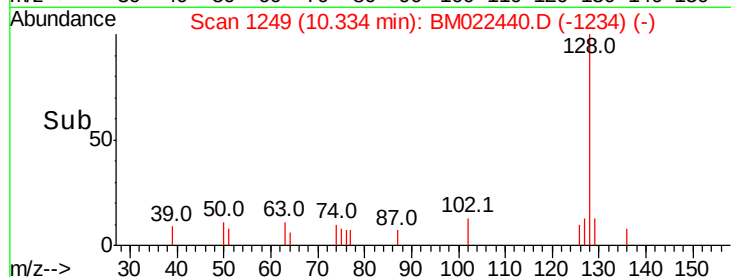
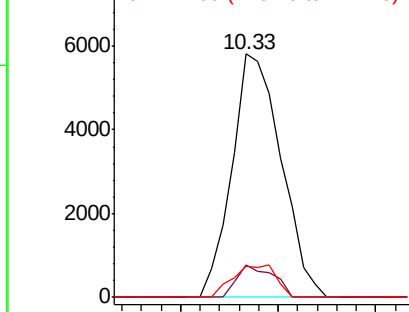


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.18 min Scan# 1903
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

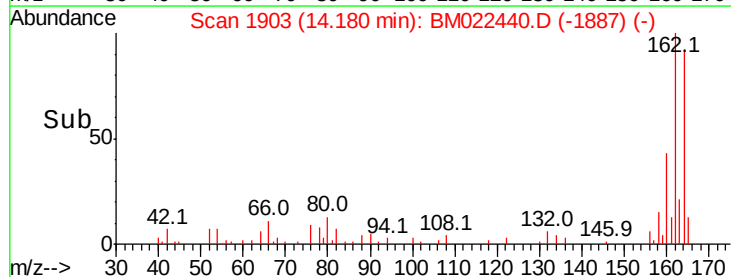
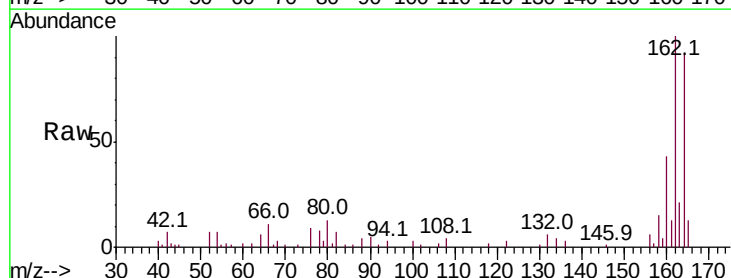
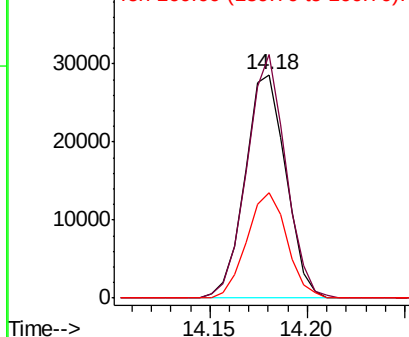
Tgt Ion	Ratio	Lower	Upper
164	100		
162	109.0	80.6	121.0
160	46.9	37.3	55.9

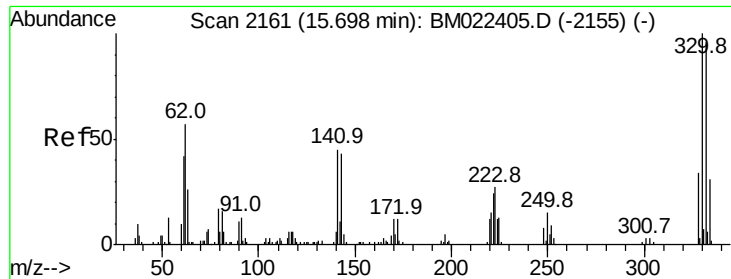
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





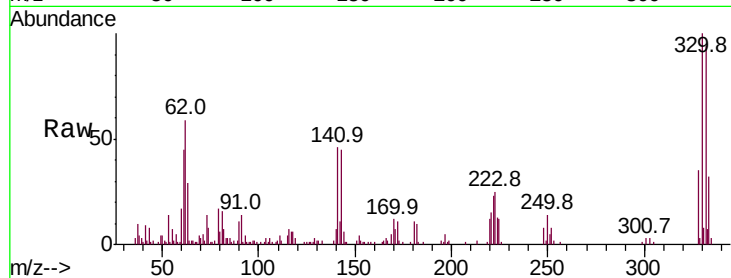
#42
 2,4,6-Tribromophenol
 Concen: 91.445 ng
 RT: 15.69 min Scan# 2160
 Delta R.T. -0.01 min
 Lab File: BM022440.D
 Acq: 30 Aug 2019 13:58

Instrument :
 BNA_M
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 S704A-N-1.0-1.5-082819

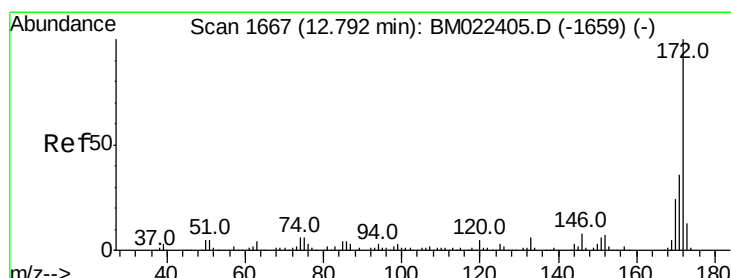
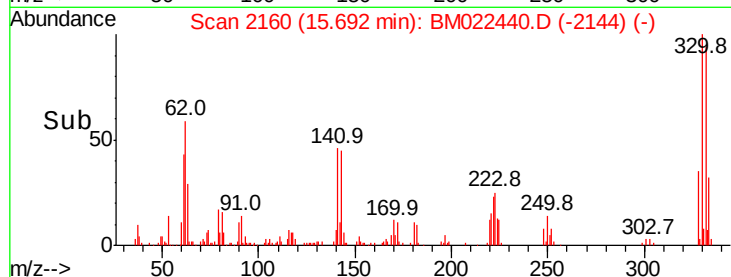
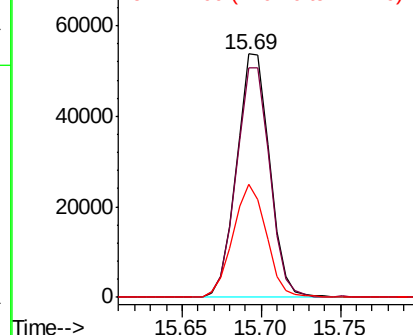
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.8	116.8
141	46.9	35.6	53.4

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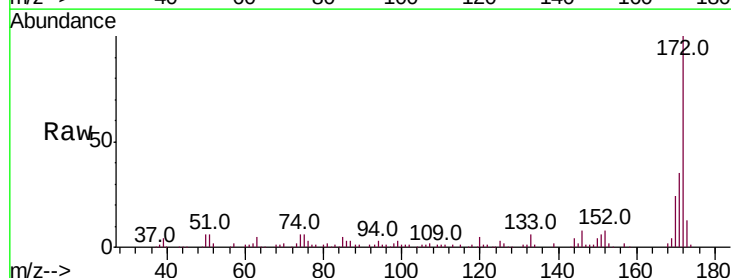


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

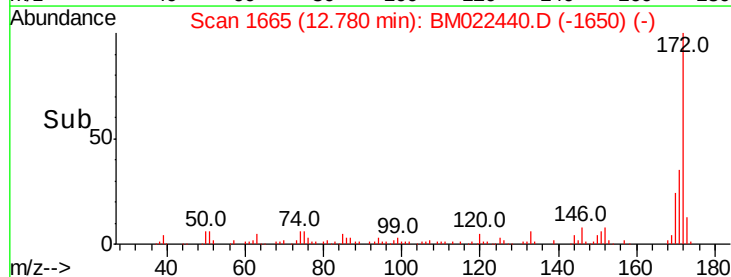
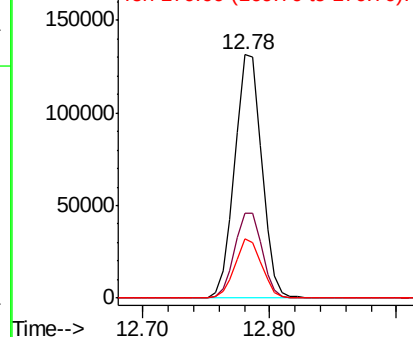


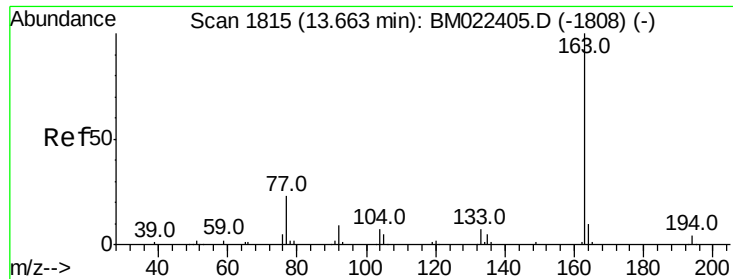
#45
 2-Fluorobiphenyl
 Concen: 52.929 ng
 RT: 12.78 min Scan# 1665
 Delta R.T. -0.01 min
 Lab File: BM022440.D
 Acq: 30 Aug 2019 13:58

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.5	42.7
170	24.3	18.9	28.3



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





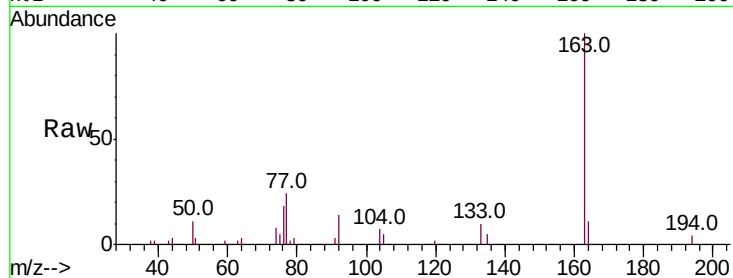
#50
Dimethylphthalate
Concen: 6.690 ng
RT: 13.66 min Scan# 1814
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Instrument :
BNA_M
ClientSampleId :
S704A-N-1.0-1.5-082819

Tot Ion:	163	Resp:	24142
Ion Ratio	Lower	Upper	
163	100		
194	4.5	3.4	5.2
164	10.6	8.2	12.2

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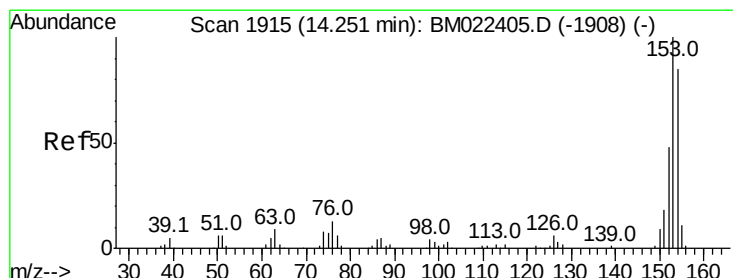
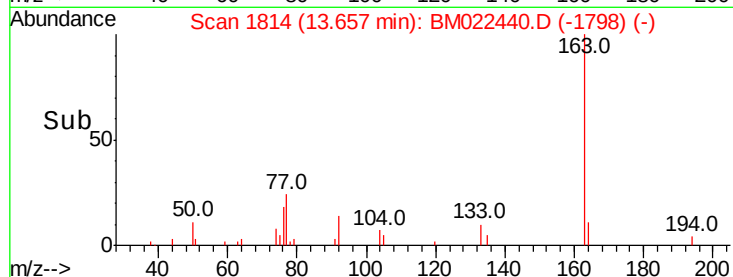
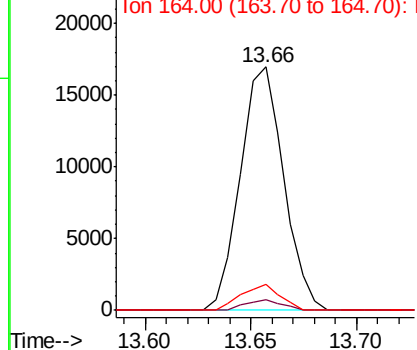


Abundance

Ion 163.00 (162.70 to 163.70): E

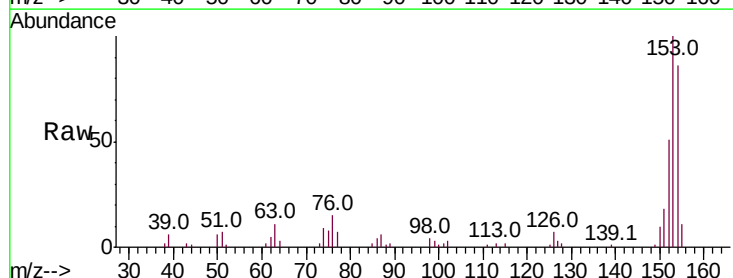
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 14.677 ng
RT: 14.25 min Scan# 1914
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Tgt Ion:	154	Resp:	35759
Ion Ratio	Lower	Upper	
154	100		
153	115.8	94.3	141.5
152	58.9	45.4	68.2

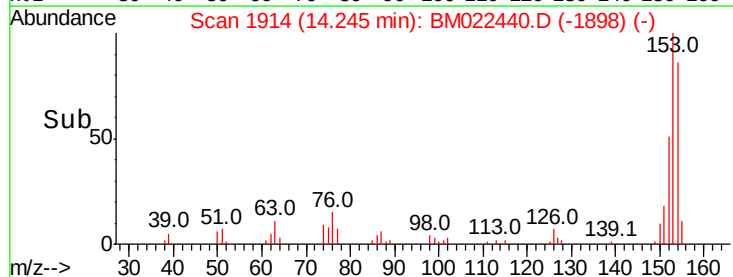
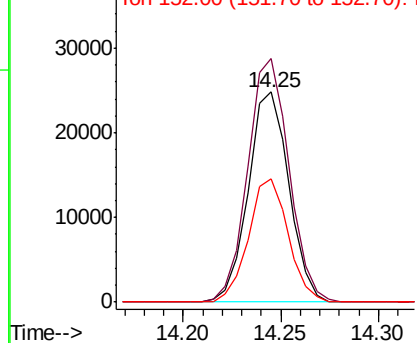


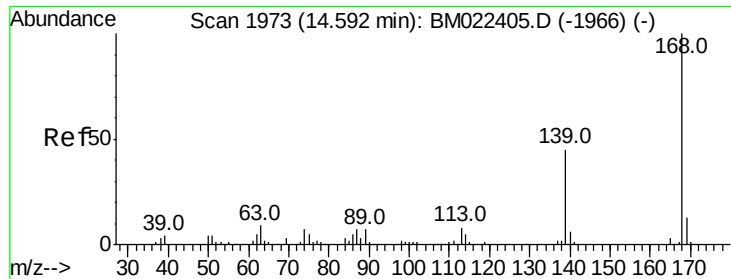
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





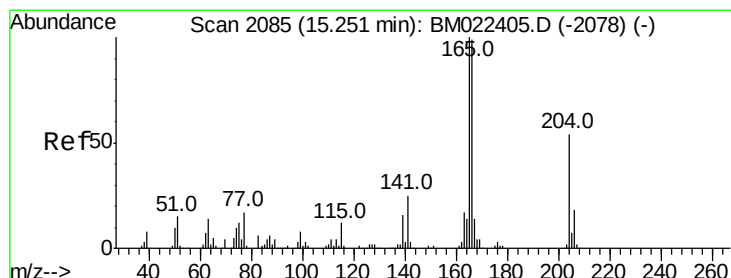
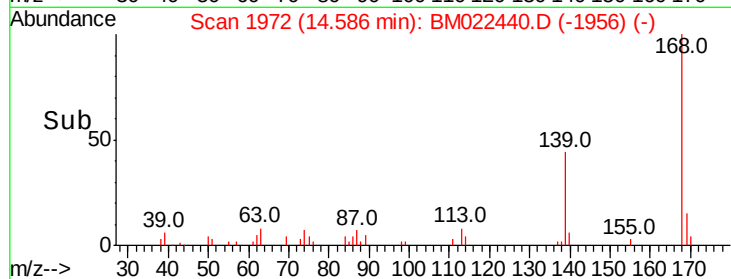
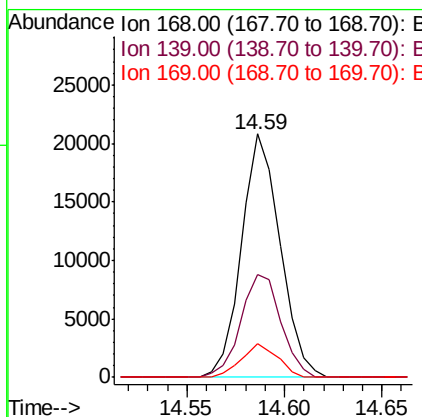
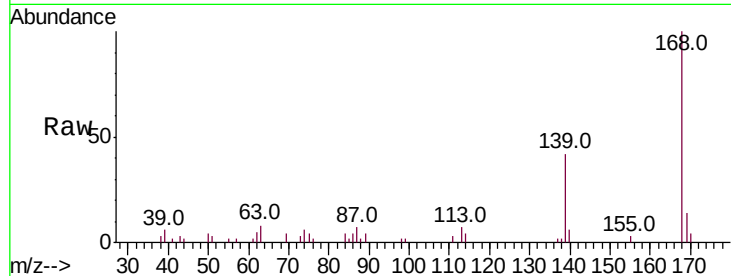
#55
Dibenzenofuran
Concen: 6.940 ng
RT: 14.59 min Scan# 1972
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Instrument :
BNA_M
ClientSampleId :
S704A-N-1.0-1.5-082819

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.0	36.1	54.1
169	14.0	10.4	15.6

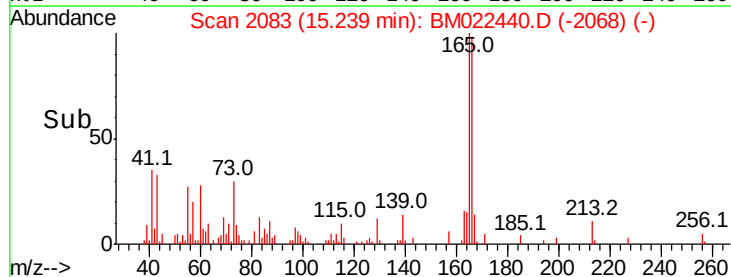
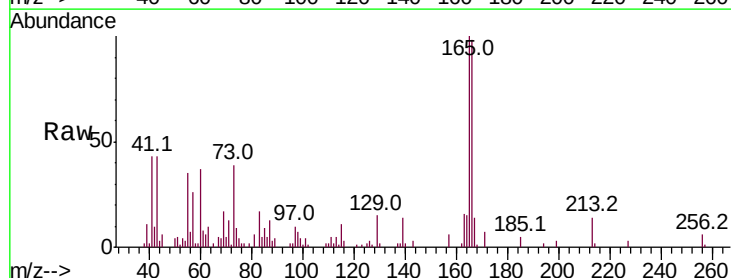
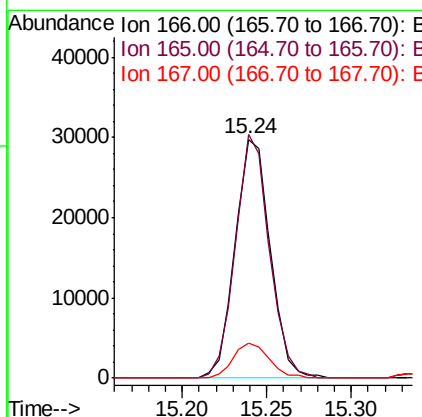
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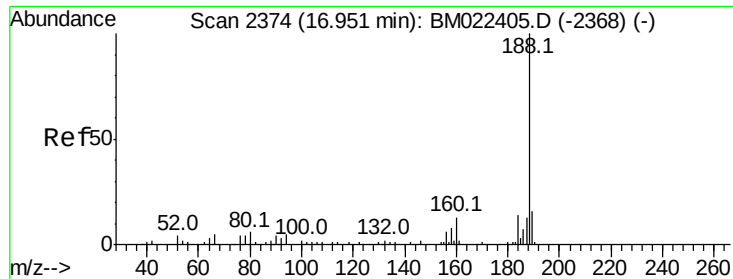
mohammad
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#58
Fluorene
Concen: 11.733 ng
RT: 15.24 min Scan# 2083
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.9	81.1	121.7
167	14.4	11.1	16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.94 min Scan# 2373

Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

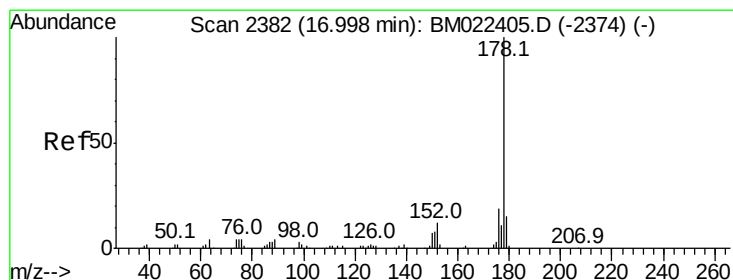
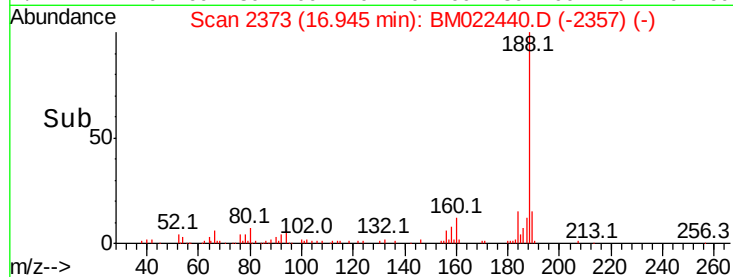
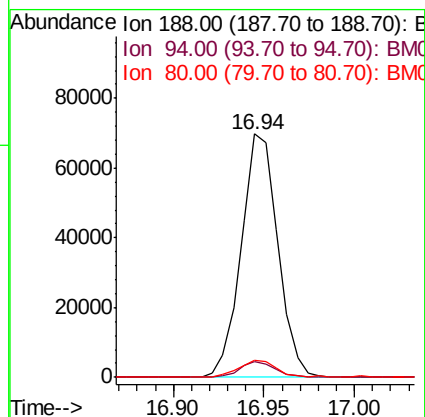
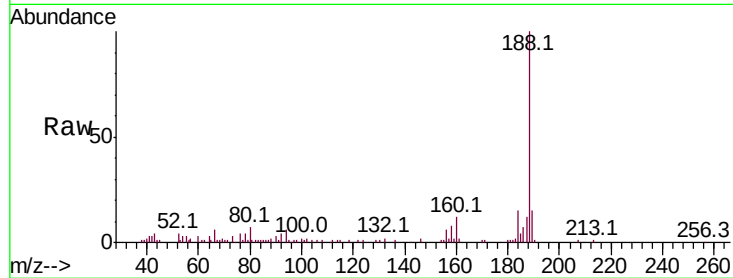
ClientSampleId :

S704A-N-1.0-1.5-082819

Tot Ion:188	Resp:	97887
Ion Ratio	Lower	Upper
188 100		
94 6.5	4.4	6.6
80 7.0	5.0	7.6

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#71

Phenanthrene

Concen: 141.247 ng

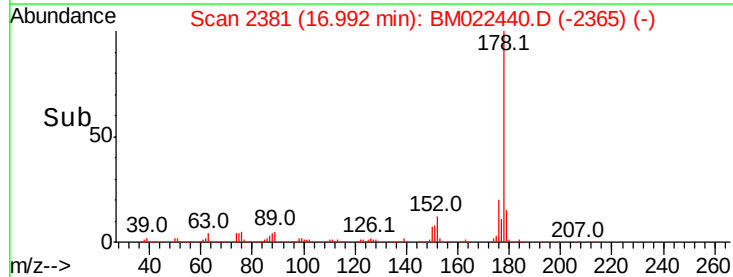
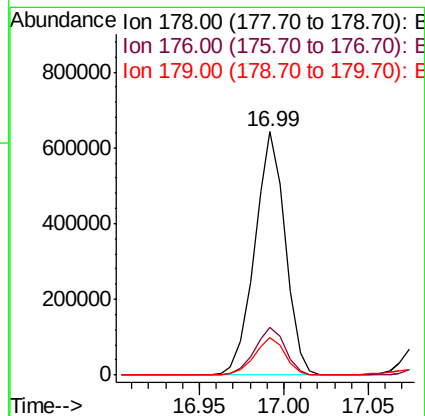
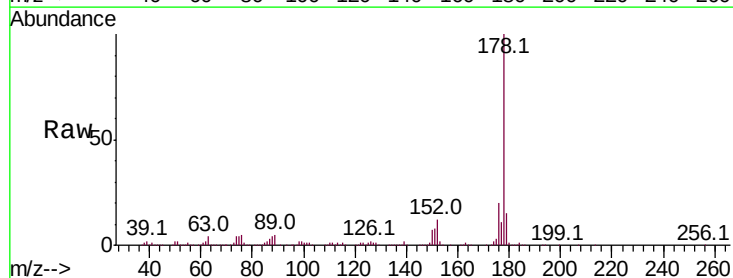
RT: 16.99 min Scan# 2381

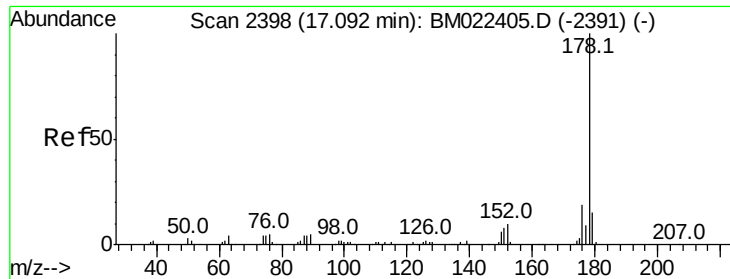
Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion:178	Resp:	805927
Ion Ratio	Lower	Upper
178 100		
176 19.6	15.4	23.2
179 15.4	12.3	18.5





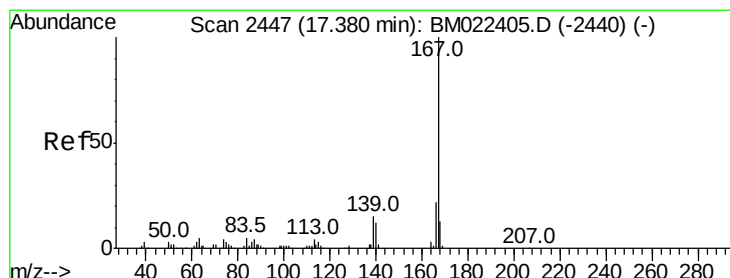
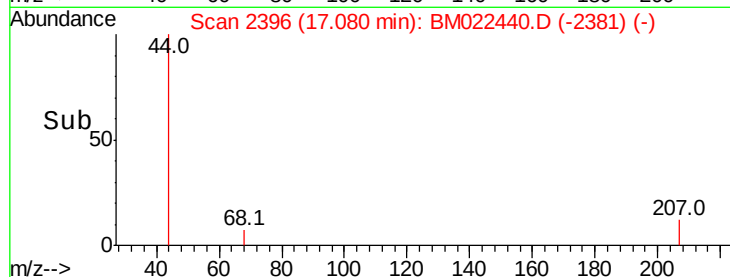
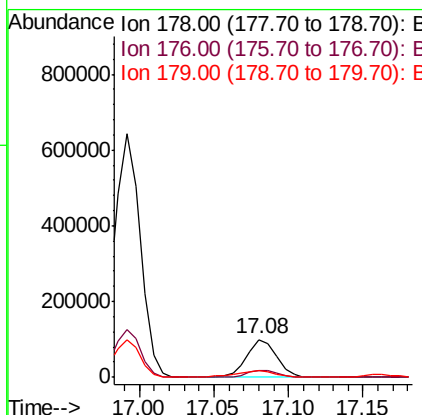
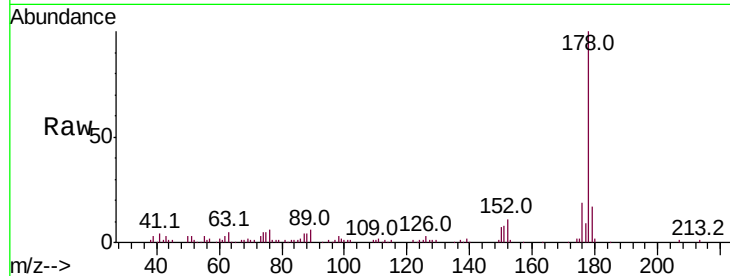
#72
 Anthracene
 Concen: 24.446 ng
 RT: 17.08 min Scan# 2396
 Delta R.T. -0.01 min
 Lab File: BM022440.D
 Acq: 30 Aug 2019 13:58

Instrument :
 BNA_M
 ClientSampleId :
 S704A-N-1.0-1.5-082819

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.0	22.4
179	16.7	11.8	17.6

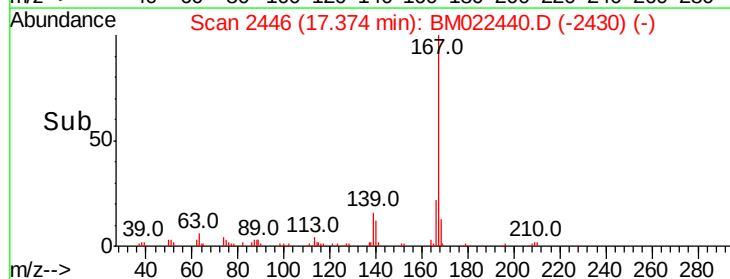
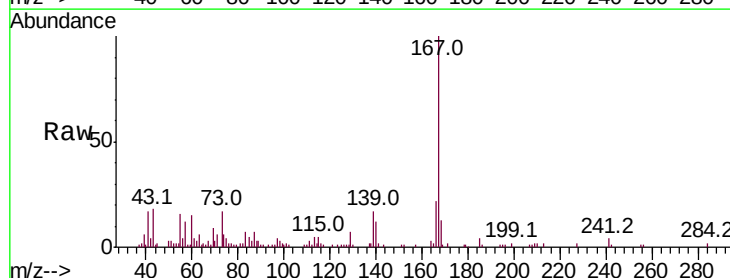
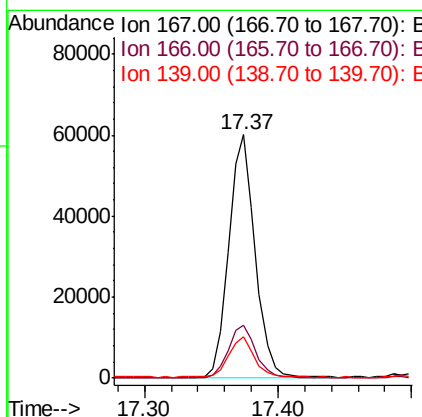
Manual Integrations
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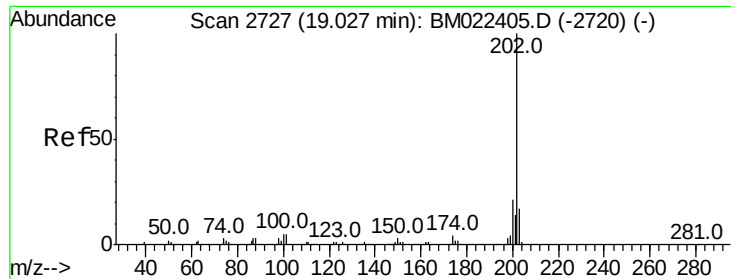
mohammad
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#73
 Carbazole
 Concen: 17.971 ng
 RT: 17.37 min Scan# 2446
 Delta R.T. -0.01 min
 Lab File: BM022440.D
 Acq: 30 Aug 2019 13:58

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.8	26.6
139	16.9	11.6	17.4





#75

Fluoranthene

Concen: 205.642 ng

RT: 19.03 min Scan# 2727

Delta R.T. -0.00 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

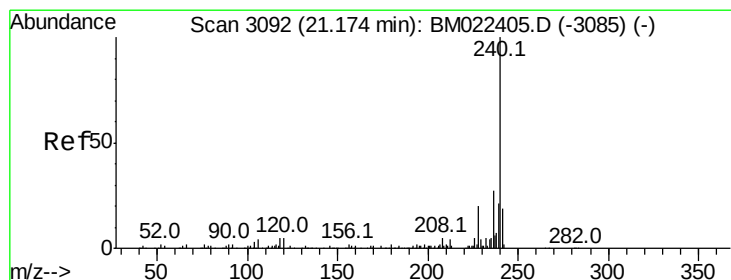
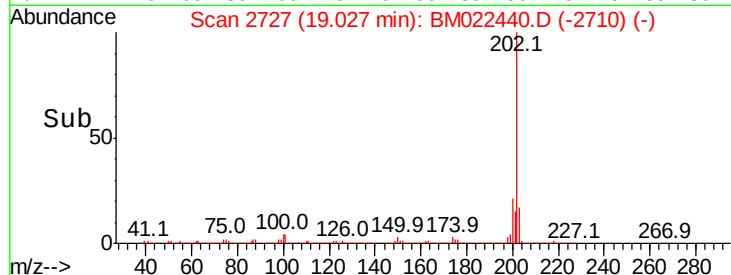
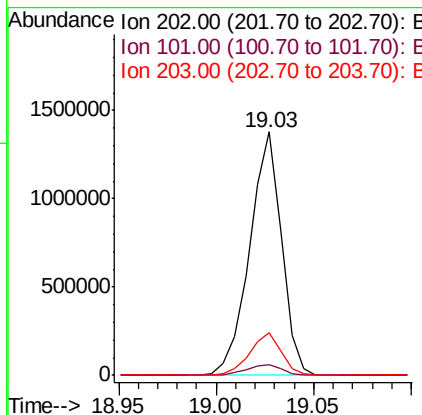
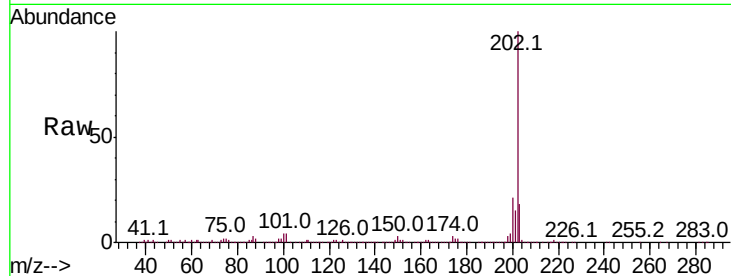
ClientSampleId :

S704A-N-1.0-1.5-082819

Tot Ion:	202	Resp:	1562567
Ion Ratio	Lower	Upper	
202	100		
101	4.3	0.0	25.1
203	17.5	0.0	37.1

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

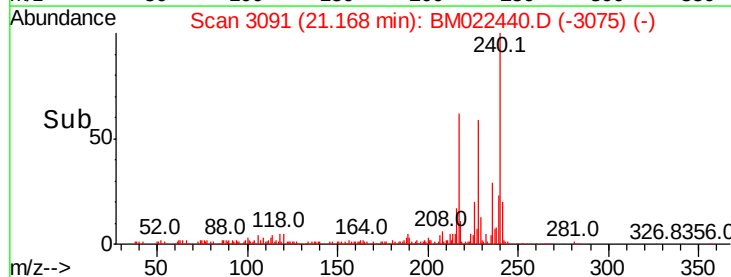
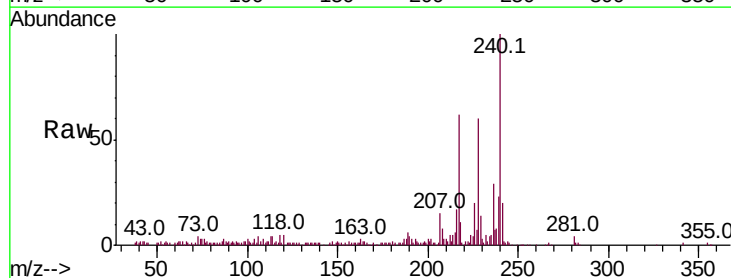
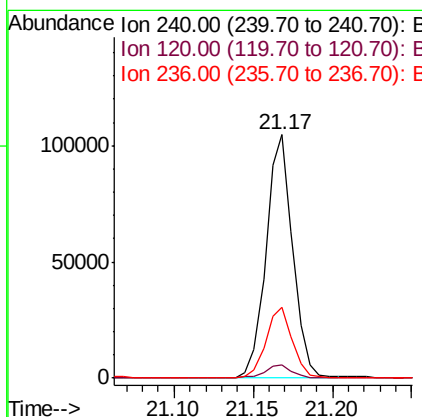
RT: 21.17 min Scan# 3091

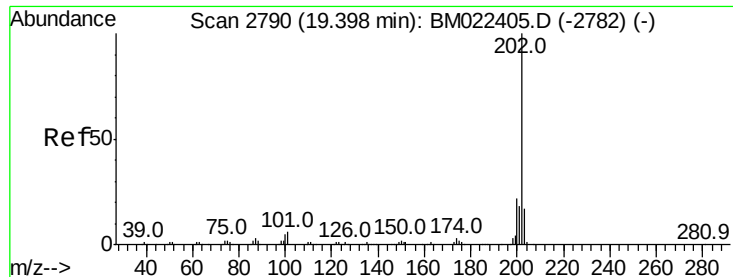
Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion:	240	Resp:	123104
Ion Ratio	Lower	Upper	
240	100		
120	5.4	3.9	5.9
236	29.0	21.4	32.2





#78

Pvrene

Concen: 132.755 ng

RT: 19.39 min Scan# 2789

Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

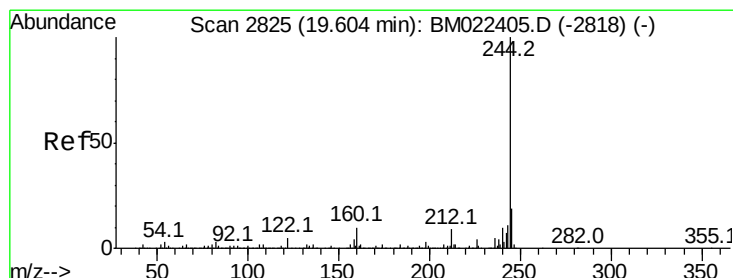
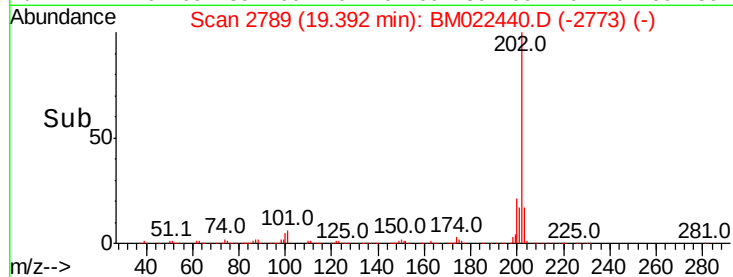
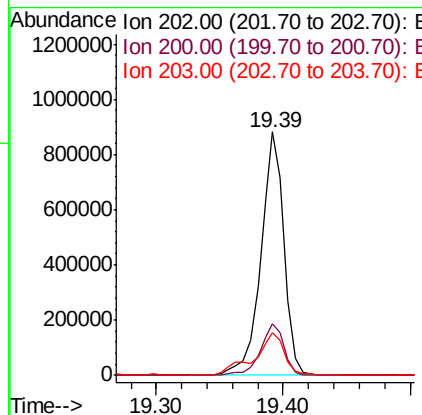
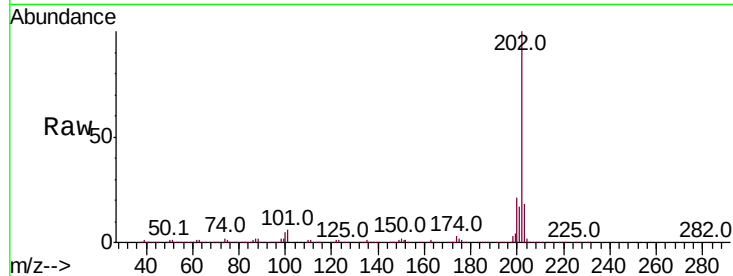
ClientSampleId :

S704A-N-1.0-1.5-082819

Tot Ion:	202	Resp:	1113753
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.7	26.5
203	17.7	13.8	20.8

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#79

Terphenyl-d14

Concen: 41.217 ng

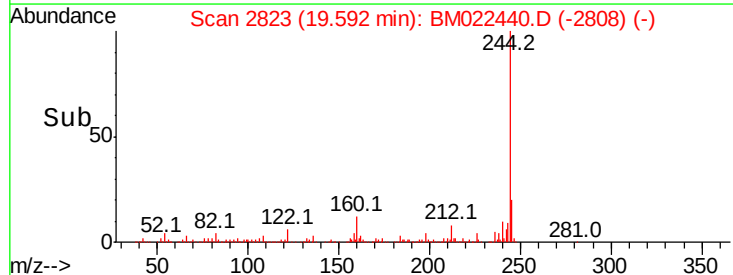
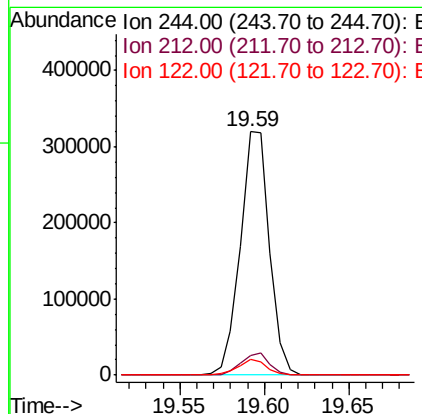
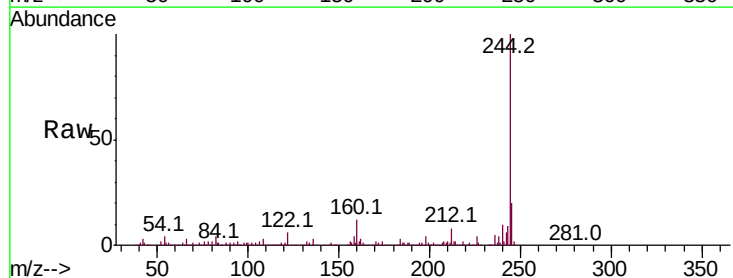
RT: 19.59 min Scan# 2823

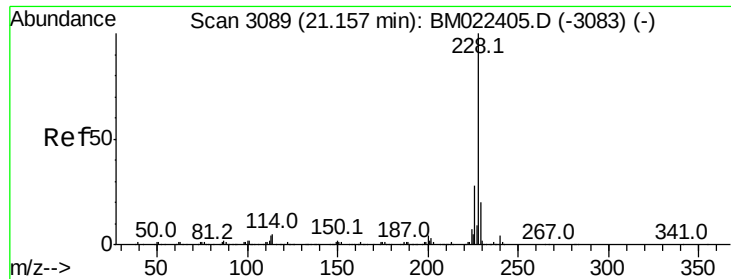
Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion:	244	Resp:	384469
Ion Ratio	Lower	Upper	
244	100		
212	8.3	7.0	10.4
122	6.5	3.9	5.9#





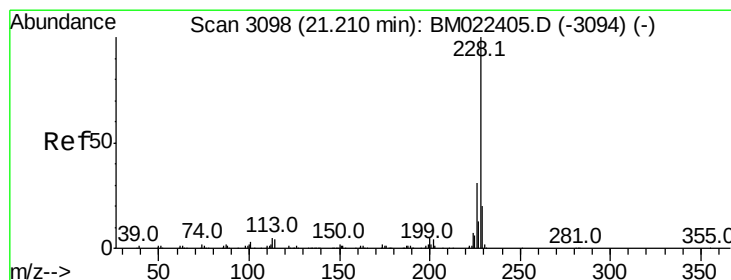
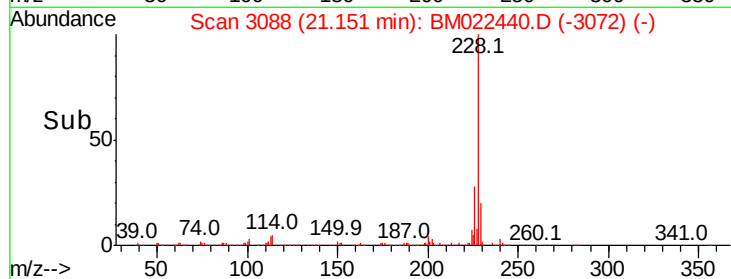
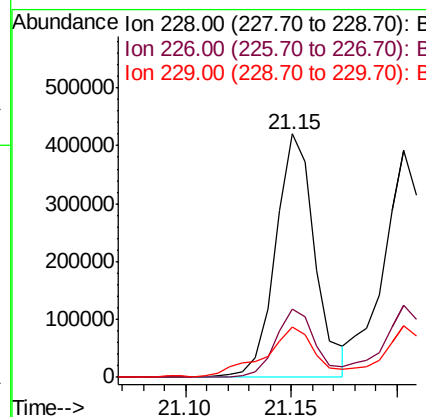
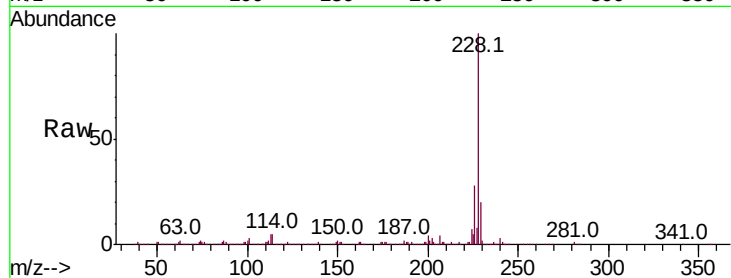
#81
Benzo(a)anthracene
Concen: 61.349 ng
RT: 21.15 min Scan# 3088
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Instrument :
BNA_M
ClientSampleId :
S704A-N-1.0-1.5-082819

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	34.0
229	20.5	15.9	23.9

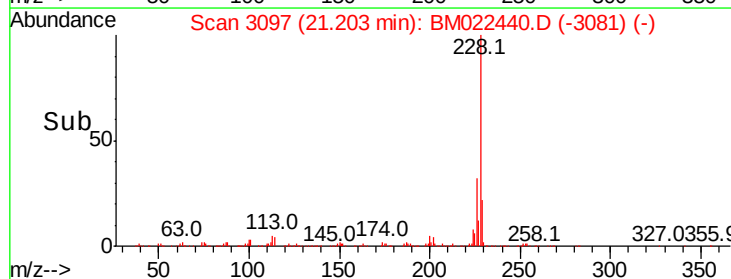
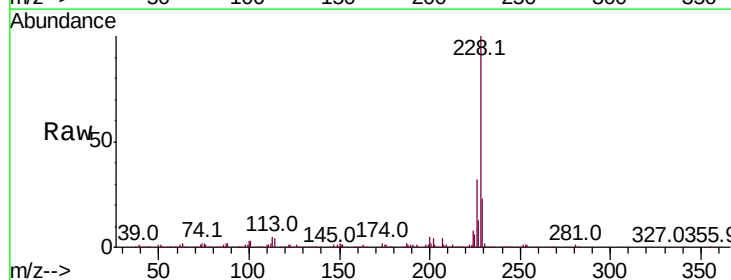
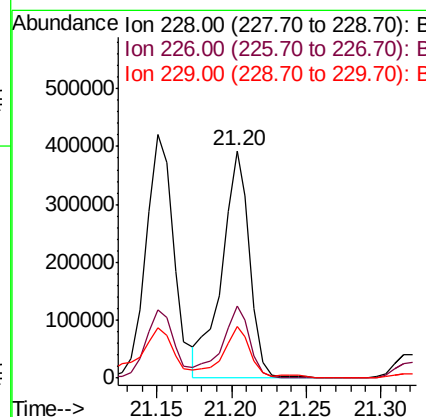
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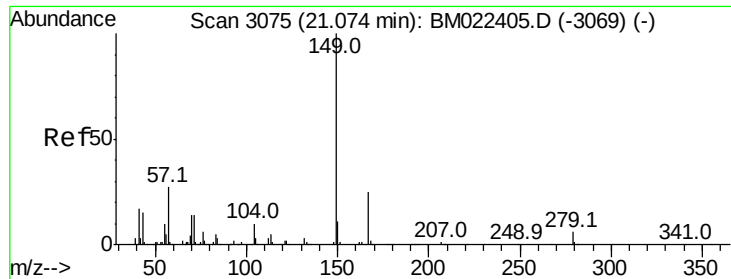
mohammad
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#83
Chrysene
Concen: 60.634 ng
RT: 21.20 min Scan# 3097
Delta R.T. -0.01 min
Lab File: BM022440.D
Acq: 30 Aug 2019 13:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.5	36.7
229	22.7	15.7	23.5





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.938 ng

RT: 21.07 min Scan# 3074

Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

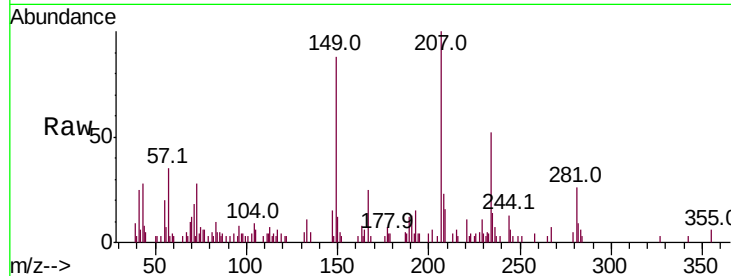
ClientSampleId :

S704A-N-1.0-1.5-082819

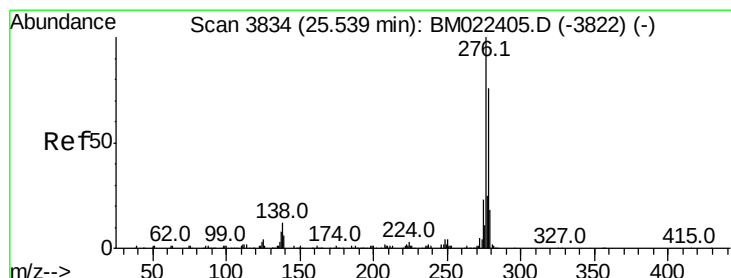
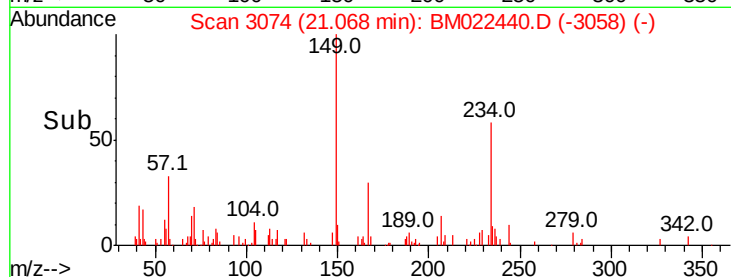
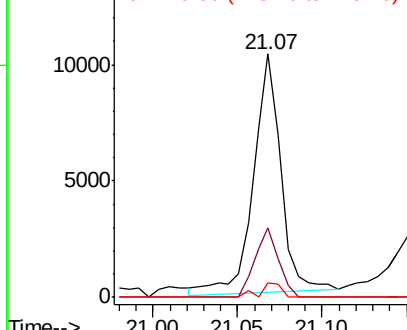
Tot Ion:	149	Resp:	11679
Ion Ratio	Lower	Upper	
149	100		
167	28.7	19.6	29.4
279	5.7	4.4	6.6

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 38.833 ng

RT: 25.53 min Scan# 3833

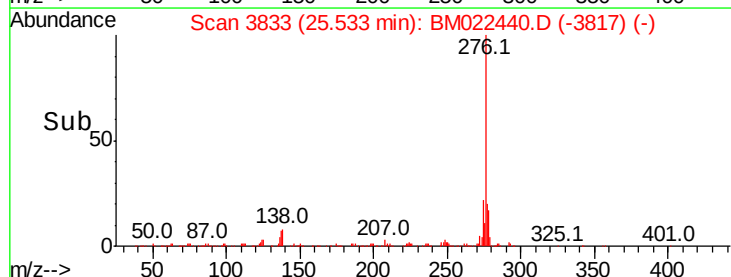
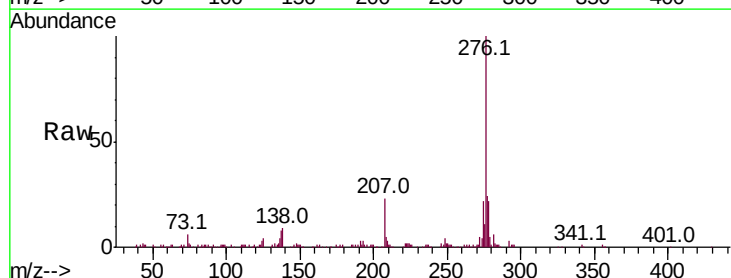
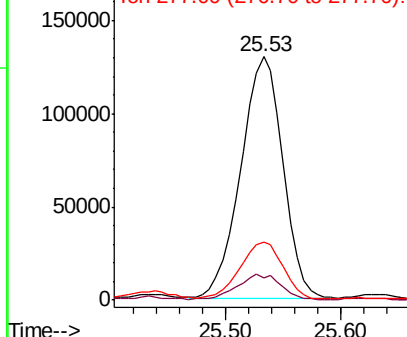
Delta R.T. -0.01 min

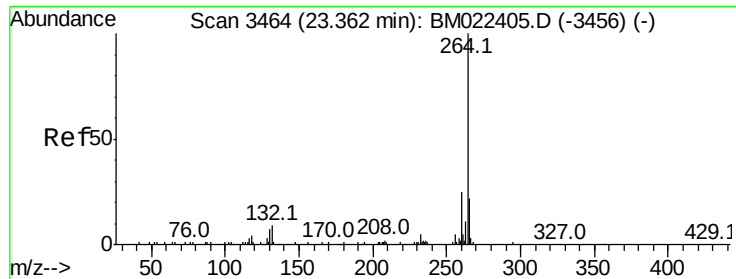
Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion:	276	Resp:	328512
Ion Ratio	Lower	Upper	
276	100		
138	10.7	9.1	13.7
277	23.9	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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.35 min Scan# 3462

Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

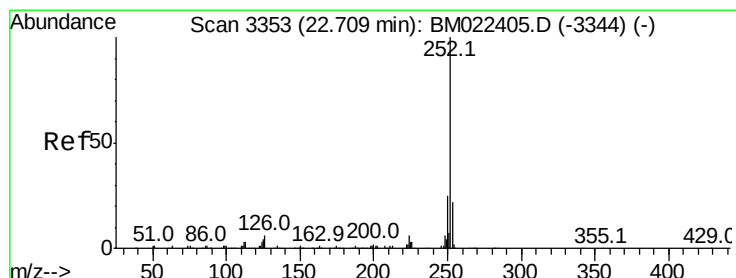
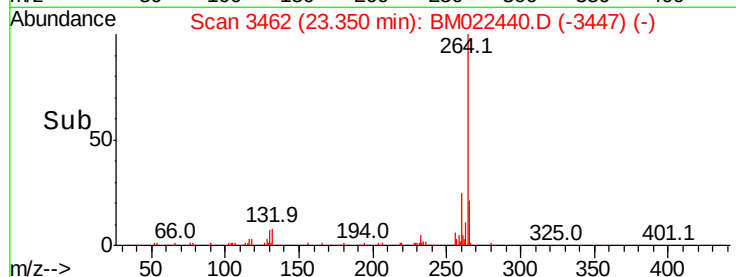
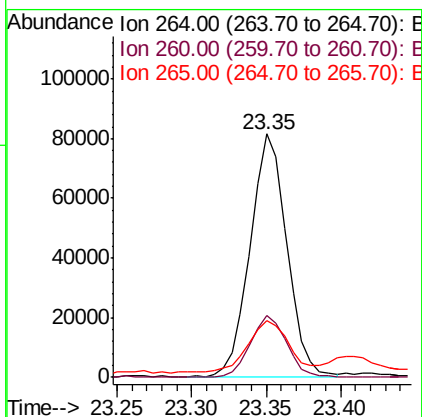
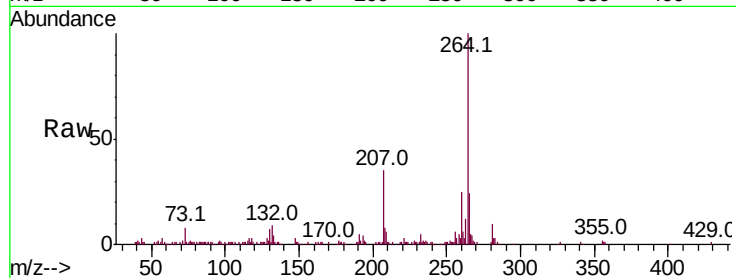
ClientSampleId :

S704A-N-1.0-1.5-082819

Tot Ion:	264	Resp:	139303
Ion Ratio	Lower	Upper	
264	100		
260	25.4	20.2	30.2
265	23.5	18.2	27.2

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#88

Benzo(b)fluoranthene

Concen: 72.025 ng

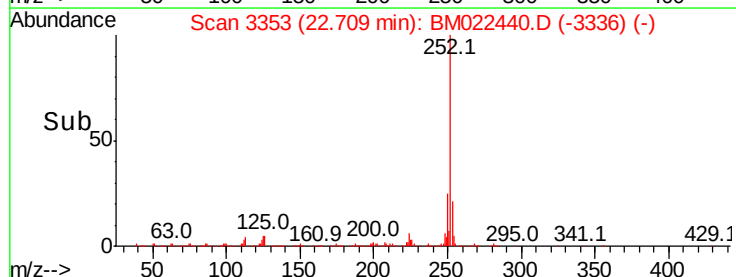
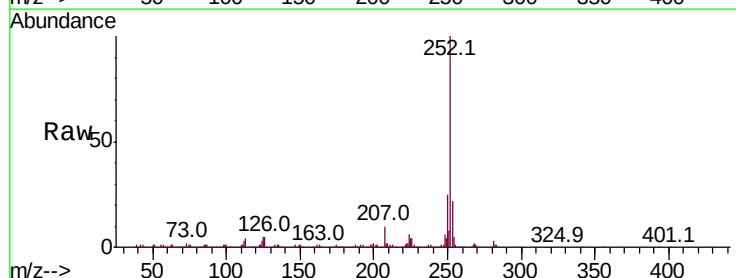
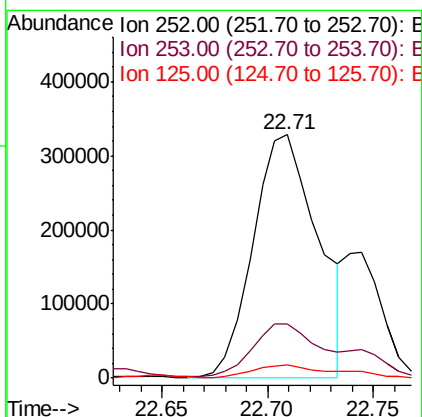
RT: 22.71 min Scan# 3353

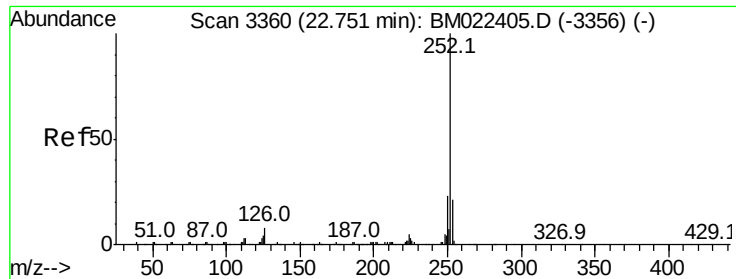
Delta R.T. -0.00 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion:	252	Resp:	697019
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.9	26.9
125	5.3	3.5	5.3#





#89

Benzo(k)fluoranthene

Concen: 21.630 ng

RT: 22.74 min Scan# 3359

Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

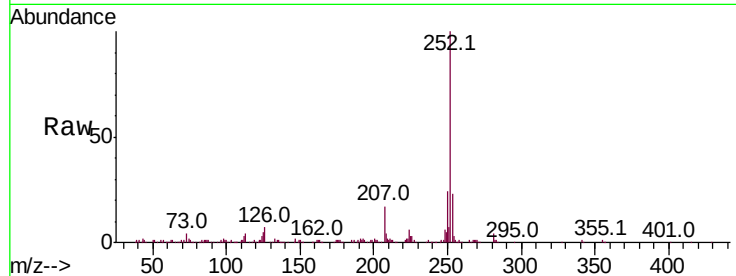
ClientSampleId :

S704A-N-1.0-1.5-082819

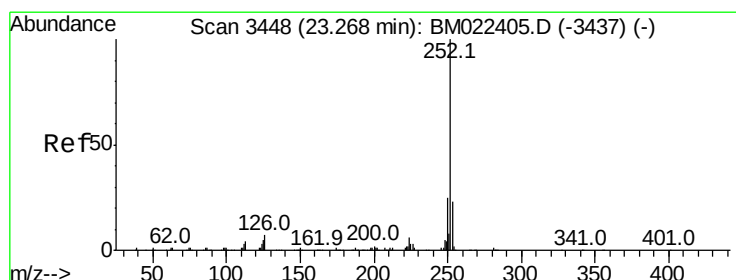
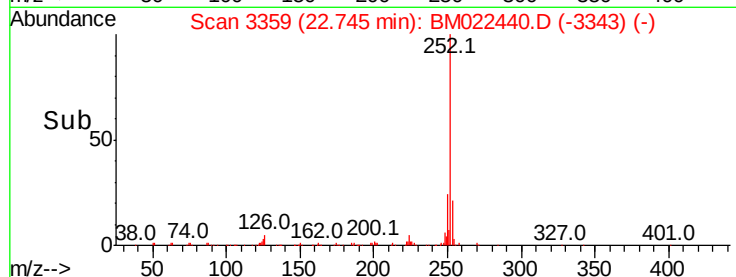
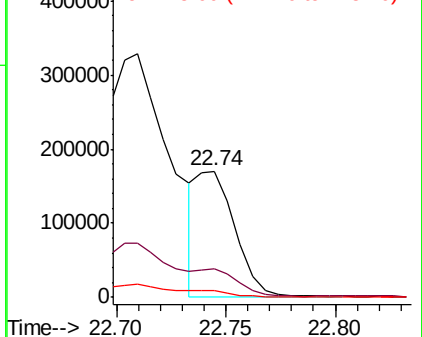
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.4
125	5.0	3.7	5.5

Manual Integrations
APPROVED

mohammad
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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



#90

Benzo(a)pyrene

Concen: 54.536 ng

RT: 23.26 min Scan# 3447

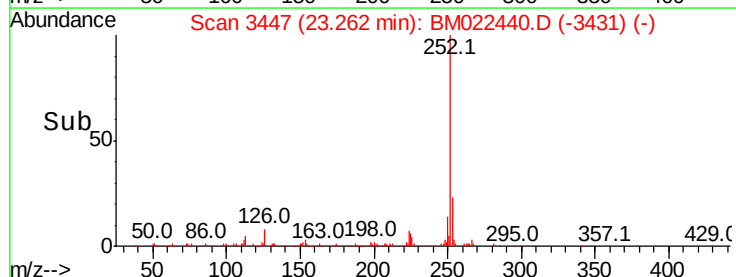
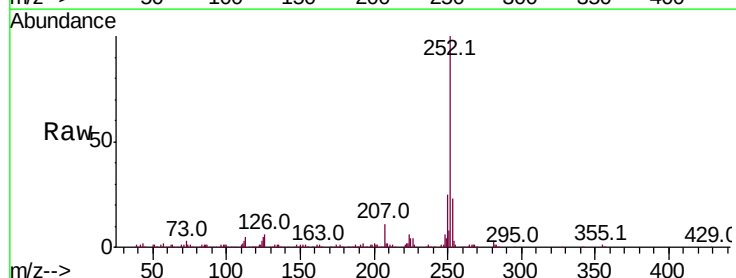
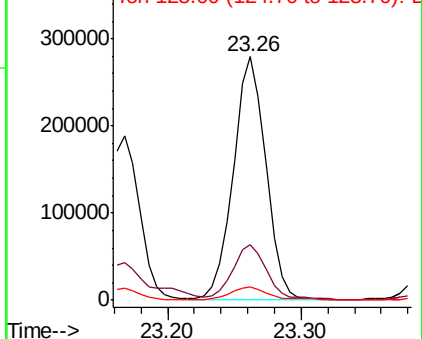
Delta R.T. -0.01 min

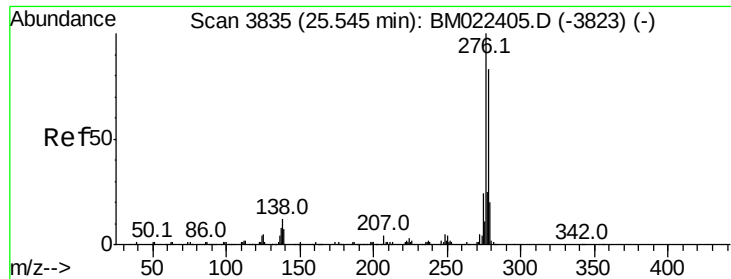
Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	5.2	3.8	5.8

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

Dibenzo(a,h)anthracene

Concen: 10.005 ng

RT: 25.53 min Scan# 3833

Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Instrument :

BNA_M

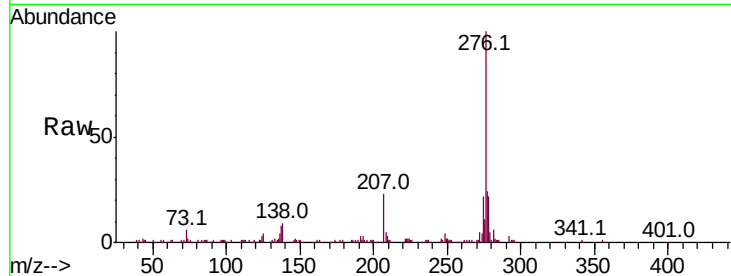
ClientSampleId :

S704A-N-1.0-1.5-082819

Tot Ion:	278	Resp:	85700
Ion Ratio	Lower	Upper	
278	100		
139	0.0	6.6	9.8#
279	25.3	19.3	28.9

Manual Integrations
APPROVED

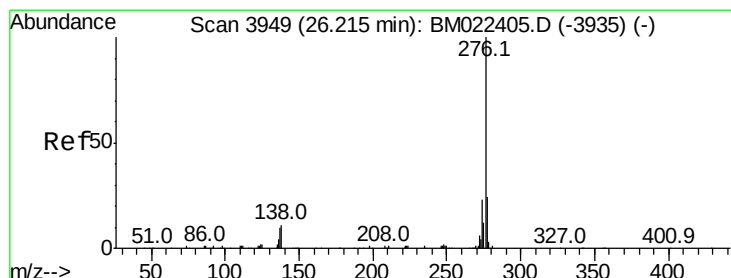
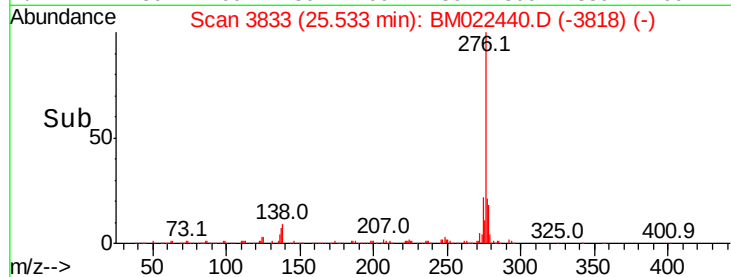
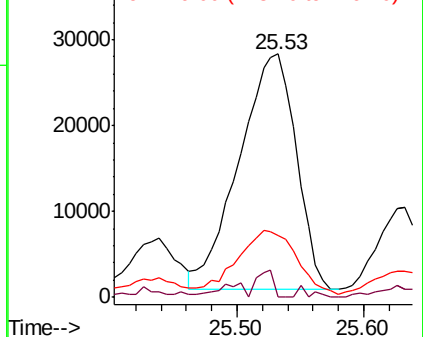
mohammad
8/31/2019 2:43:50 PM



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



#92

Benzo(g,h,i)perylene

Concen: 41.378 ng

RT: 26.20 min Scan# 3947

Delta R.T. -0.01 min

Lab File: BM022440.D

Acq: 30 Aug 2019 13:58

Tgt Ion:	276	Resp:	308885
Ion Ratio	Lower	Upper	
276	100		
277	24.5	19.4	29.0
138	10.8	8.8	13.2

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

