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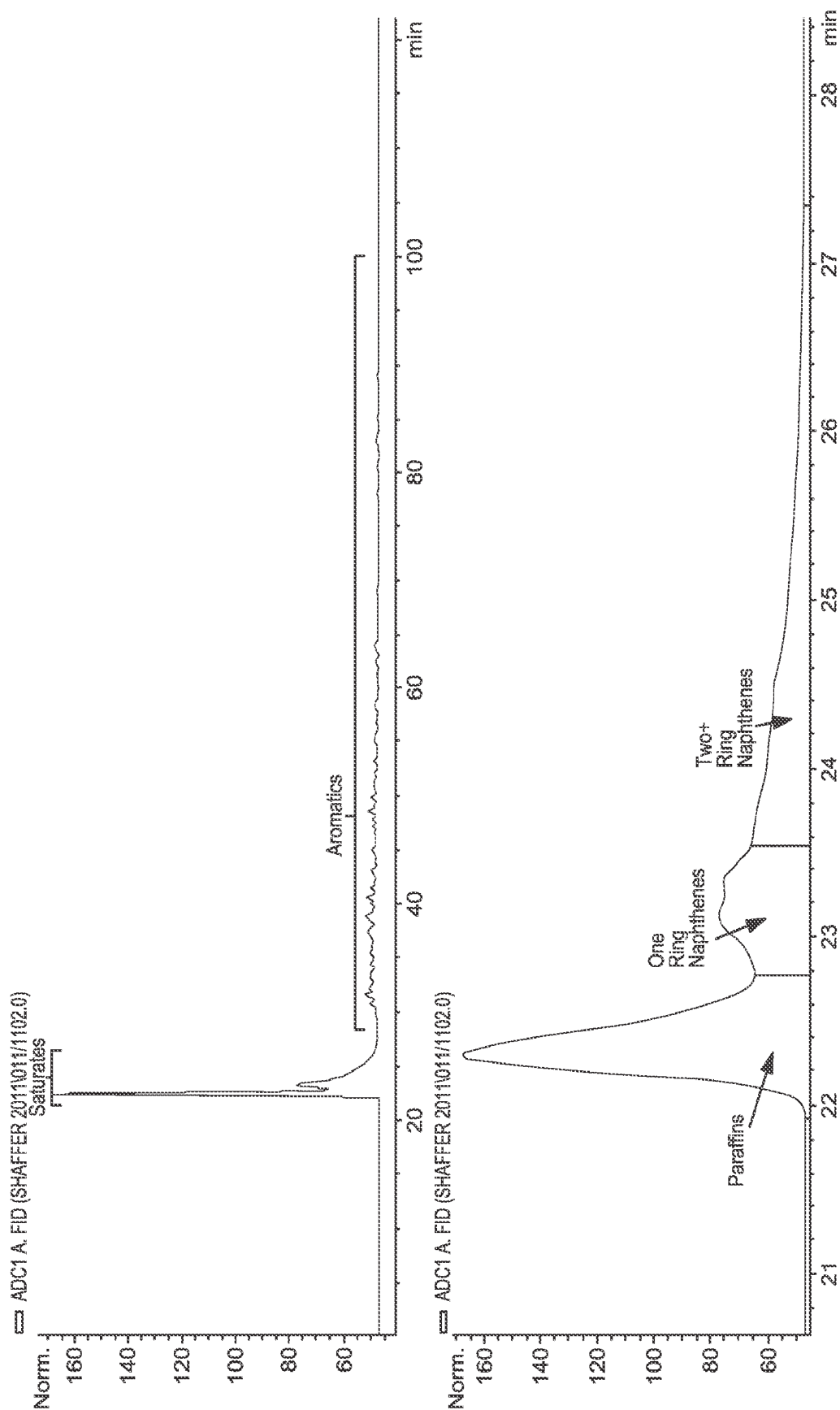


FIG. 1

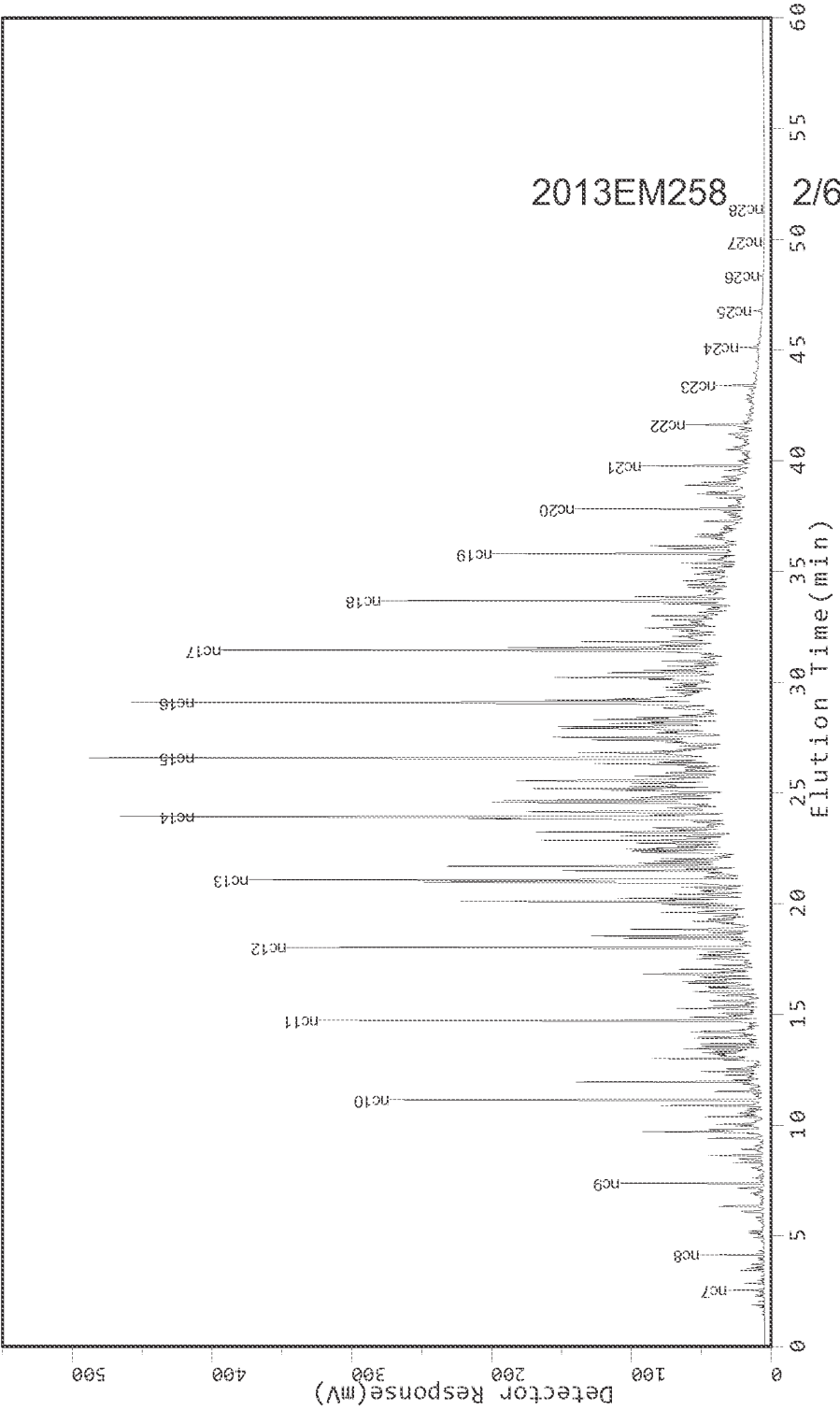


FIG. 2

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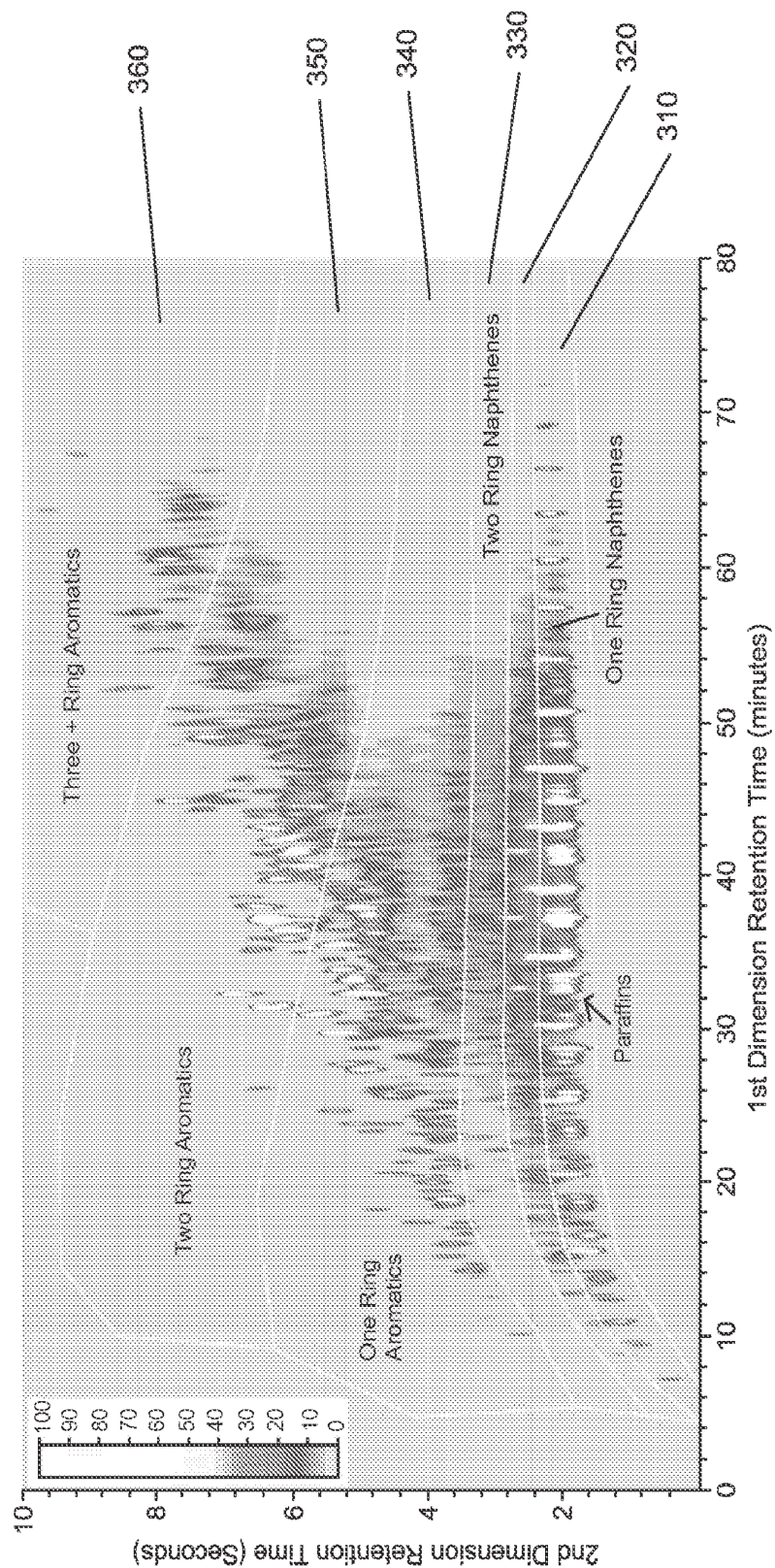


FIG. 3

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z	Compound Types	Possible Core Structure(s) and Core Mass		Compound Classes
2	Normal Paraffins			Paraffins
2	Iso Paraffins			
0	1-Ring Naphthenes	84		Naphthenes
-2	2-Ring Naphthenes	138		
-4	3-Ring Naphthenes	192		
-6	Benzenes	78		1-Ring Aromatics
-8	Indanes/Naphtheno Benzenes	118	132	
-10	Dinaphtheno Benzenes	186		
-12	Naphthalenes	128		2-Ring Aromatics
-14	Biphenyls/Acenaphthalenes	154	154	
-16	Fluorenes/Dinaphtheno naphthalenes	166	236	3-Ring Aromatics
-18	Phenanthrenes/Anthracenes	178	178	
-20	Acphenanthrenes	190		
-22	Pyrenes/Fluoranthenes	202	202	4-Ring Aromatics
-24	Chrysenes	228		
-26	Acechrysenes/Naphtheno chrysenes	240	282	5-Ring+ Aromatics
-28	Benzopyrenes/Perylenes	252	252	
-30	Benzochrysenes	278		
-32	Naphthenobenzochrysenes	332		
-34	Dibenzopyrenes	302		

FIG. 4

SUBSTITUTE SHEET (RULE 26)

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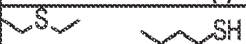
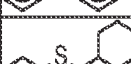
z	Identification	Possible Core Structure(s) and Core Mass	Compound Classes
+2	sulfide/mercaptan		Aliphatic sulfides
0	cyclic sulfide	 102	Cyclic sulfides
-2	dicyclic sulfide	 156	
-4	thiophenes	 84	1-Ring Aromatic Sulfurs
		 110	
-6	benzene thiols		
-8	dinaphthenothiophenes	 192	
-10	benzothiophenes (BTs)	 134	2-Ring Aromatic Sulfurs
		 188	
-12	naphtheno BTs	 242	
-14	dinaphtheno BTs		3-Ring Aromatic Sulfurs
-16	dibenzothiophenes (DBTs)	 184	
		 238	
-18	naphtheno DBTs	 208	
-20	bay-S phenanthrenes		4-Ring Aromatic Sulfurs
		 234	
-22	benzo DBTs	 288	
-24	naphtheno benzo DBTs	 342	
-26	dinaphtheno benzo DBTs		5-Ring+ Aromatic Sulfurs
-28	dibenzo DBT	 284	

FIG. 5

SUBSTITUTE SHEET (RULE 26)

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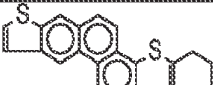
z	Identifications	Possible Core Structure(s) and Core Mass	Compound Classes
-14	dithiophenobenzenes (DTBs)	 190	3-Ring Aromatic Disulfurs
-16	naphtheno DTBs	 244	
-18	dinaphtheno DTBs	 298	
-20	dithiophenonaphthalenes (DTNs)	 240	4-Ring Aromatic Disulfurs
-22	naphtheno DTNs	 294	
-24	dinaphtheno DTNs	 348	
-26	dithiophenophenanthrenes (DTPs)	 290	5-Ring+ Aromatic Disulfurs
-28	naphtheno DTPs	 344	

FIG. 6