

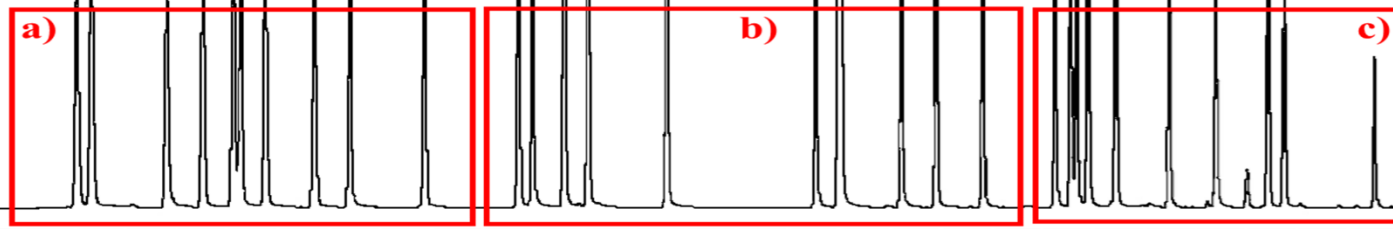
### Peak assignment of NMHCs in the chromatograms

Peak no.	Compound	Peak no.	Compound	Peak no.	Compound
1	Methylcyclopentane	18	<i>n</i> -Propylbenzene	35	1-Butene
2	2,4-Dimethylpentane	19	<i>m</i> -Ethyltoluene	36	<i>cis</i> -2-Butene
3	Benzene	20	<i>p</i> -Ethyltoluene	37	Cyclopentane
4	Cyclohexane	21	1,3,5-Trimethylbenzene	38	<i>i</i> -Pentane
5	2-Methylhexane	22	<i>o</i> -Ethyltoluene	39	<i>n</i> -Pentane
6	2,3-Dimethylpentane	23	1,2,4-Trimethylbenzene	40	<i>trans</i> -2-Pentene
7	3-Methylhexane	24	1,2,3-Trimethylbenzene	41	1-Pentene
8	<i>n</i> -Heptane	25	<i>m</i> -Diethylbenzene	42	<i>cis</i> -2-Pentene
9	Toluene	26	<i>p</i> -Diethylbenzene	43	2,2-Dimethylbutane
10	2-Methylheptane	27	Ethane	44	2,3-Dimethylbutane
11	3-Methylheptane	28	Ethene	45	2-Methylpentane
12	<i>n</i> -Octane	29	Propane	46	3-Methylpentane
13	Ethylbenzene	30	Propene	47	<i>n</i> -Hexane
14	m/p-Xylene	31	<i>i</i> -Butane	48	Isoprene
15	Styrene	32	<i>n</i> -Butane	49	1-Hexene
16	<i>o</i> -Xylene	33	Acetylene		
17	<i>i</i> -Propylbenzene	34	<i>trans</i> -2-Butene		

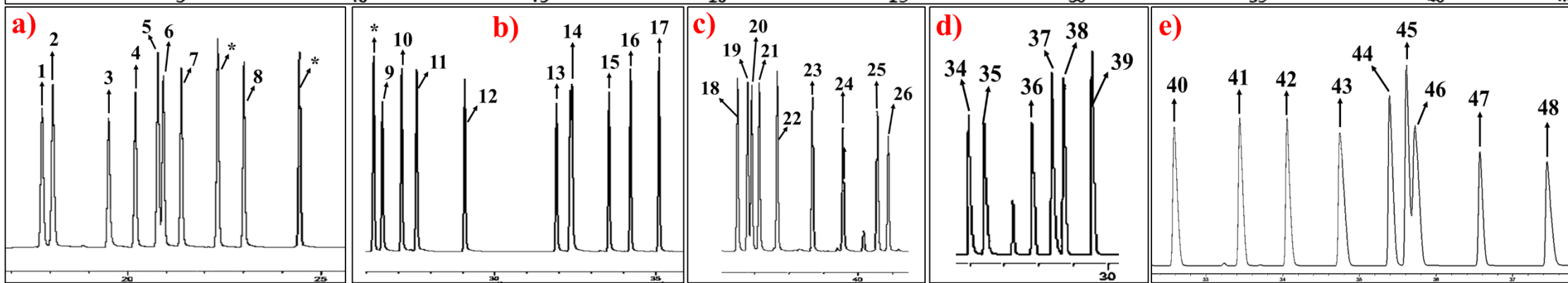
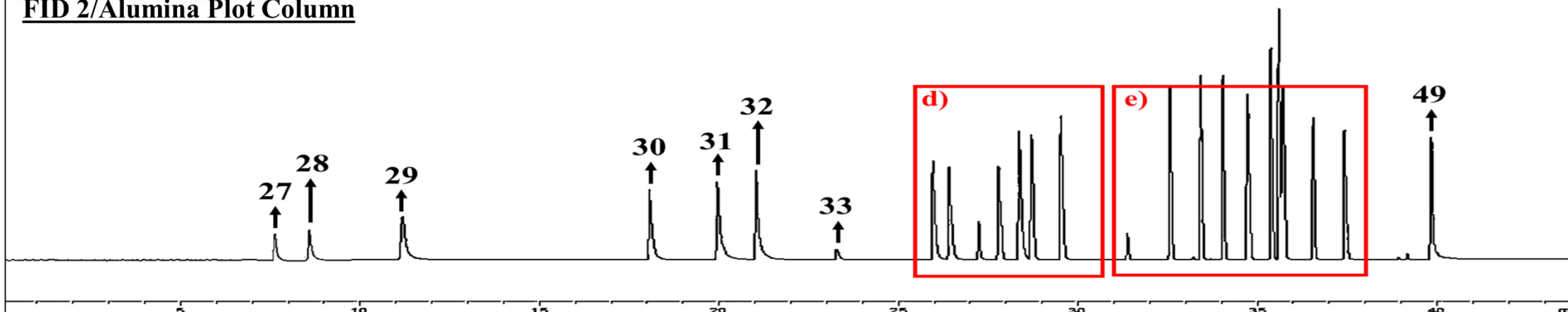
# VOC standard 1

(Chemtron Science Laboratories Pvt. Ltd., Navi Mumbai, India)

## FID 1/DB-1 column



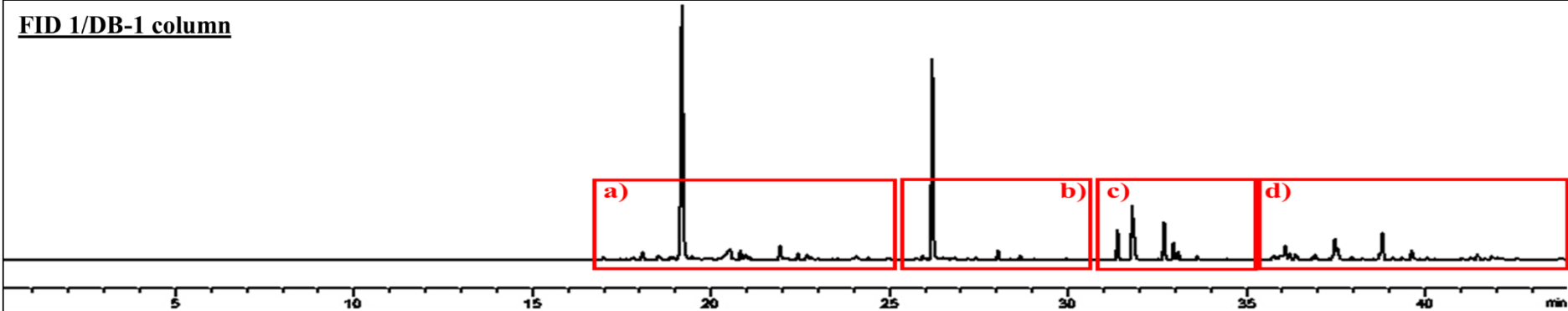
## FID 2/Alumina Plot Column



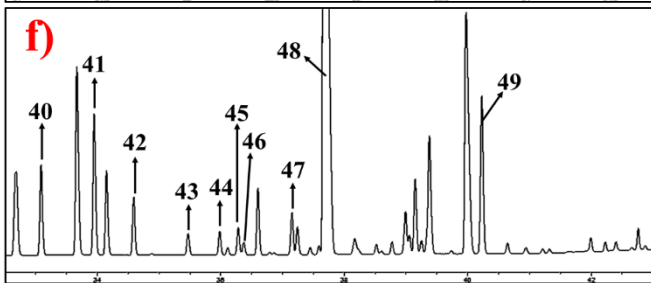
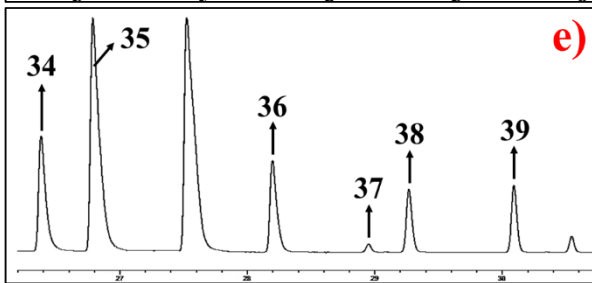
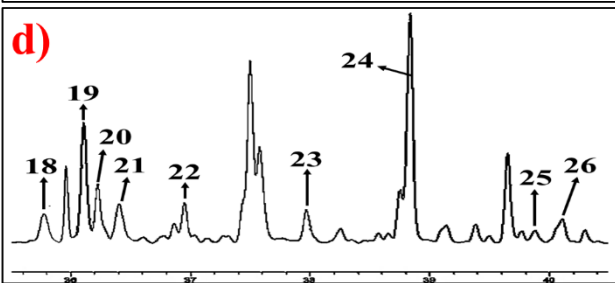
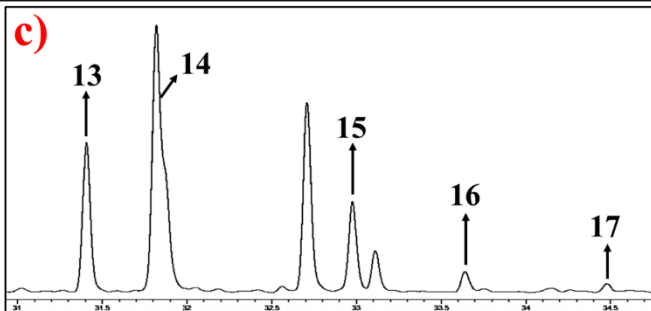
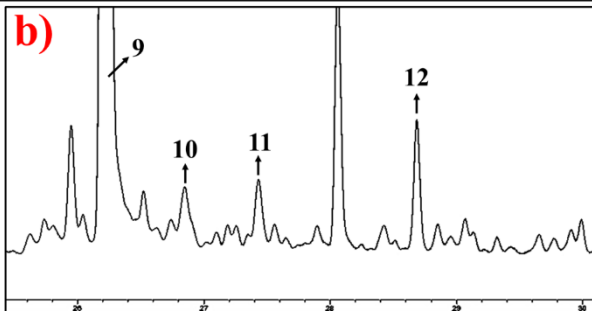
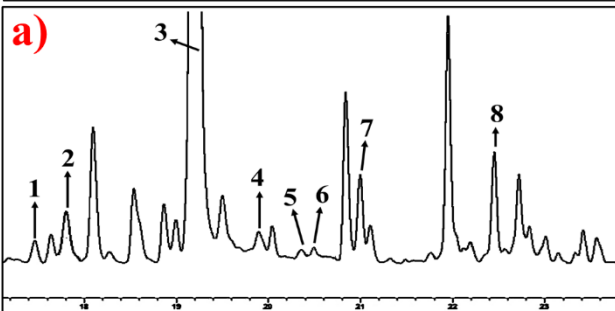
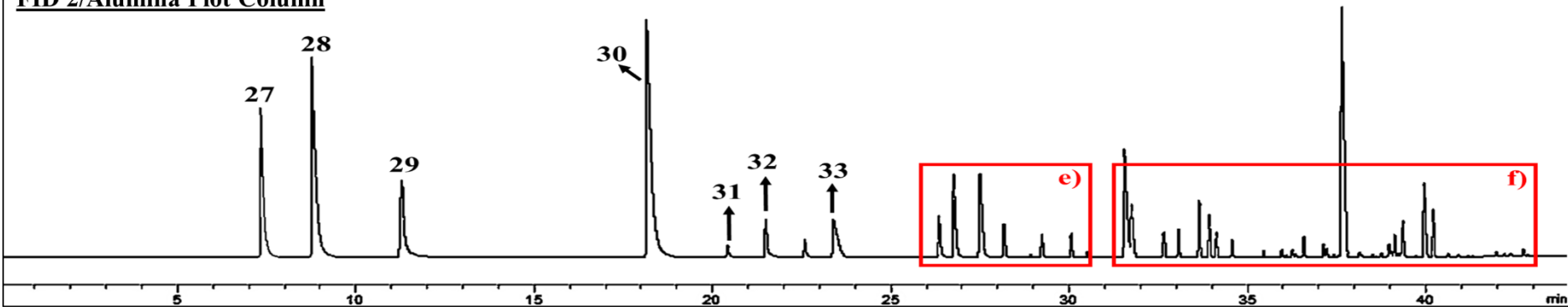
(Peaks marked as “\*” are the compounds that were present in the calibration standard but had poor peak features in certain sample chromatograms. Therefore, for remaining consistent across all sample analysis, these compounds were removed from analysis)

Paddy stubble burning (Flaming stage)

FID 1/DB-1 column

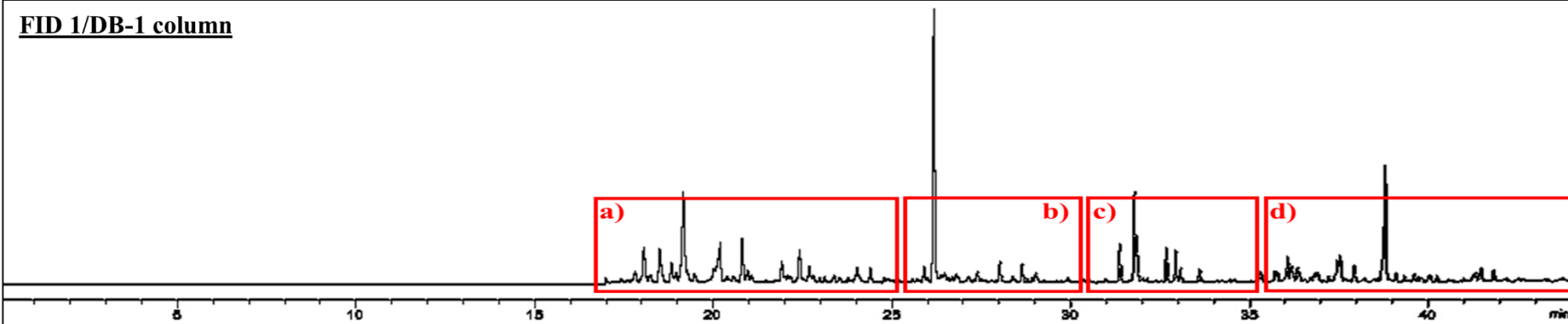


FID 2/Alumina Plot Column

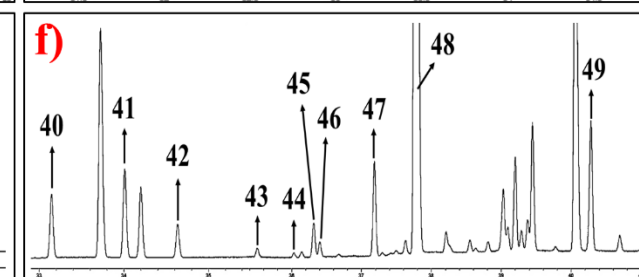
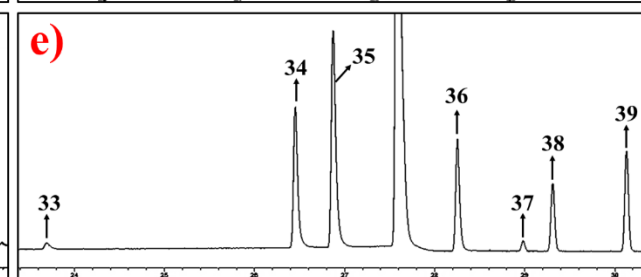
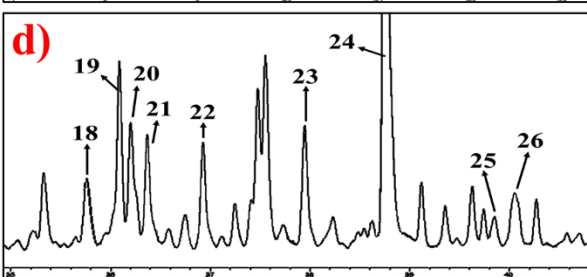
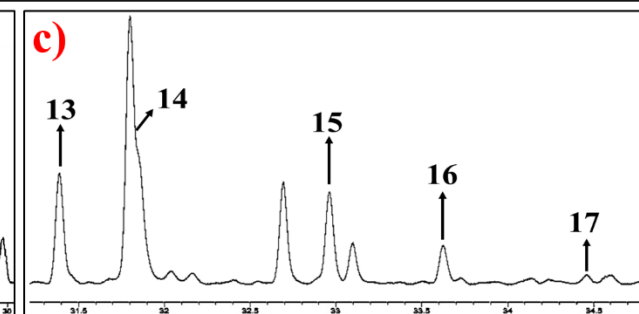
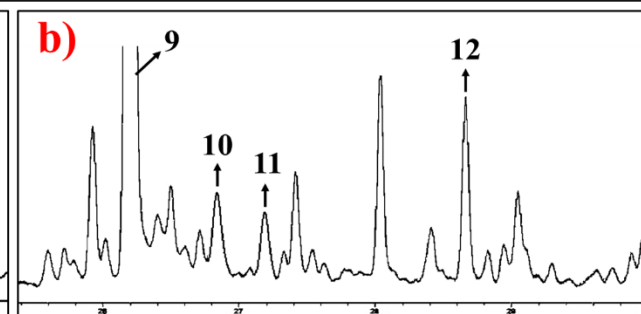
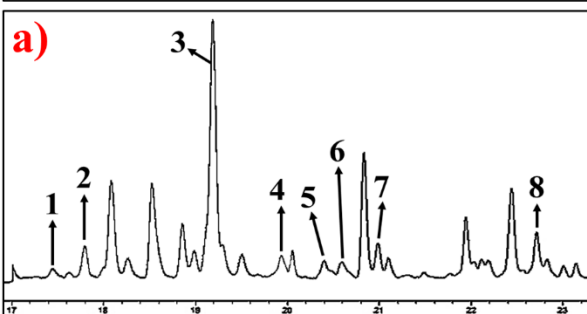
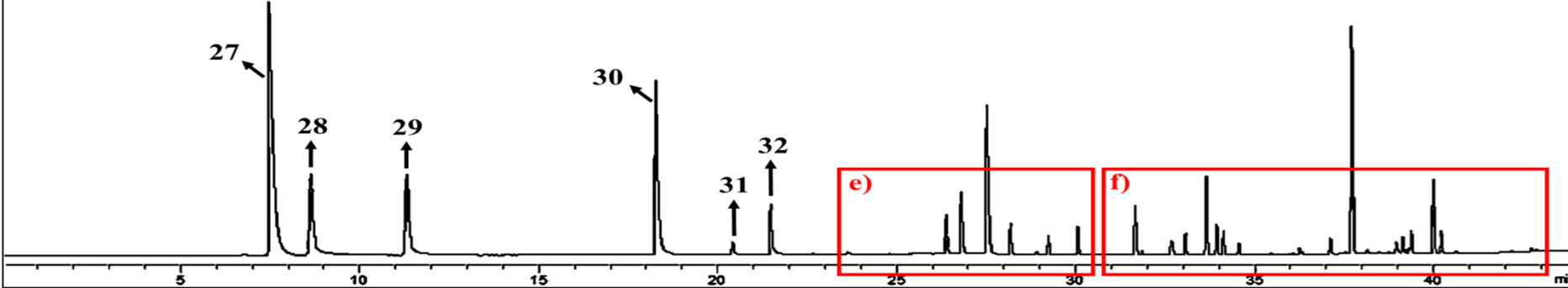


# Paddy stubble burning (Smoldering stage)

FID 1/DB-1 column

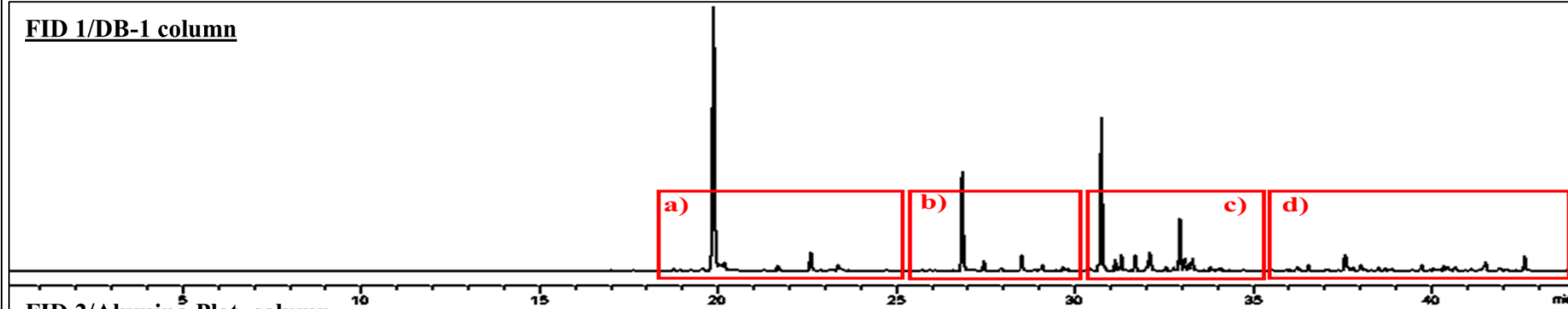


FID 2/Alumina Plot column

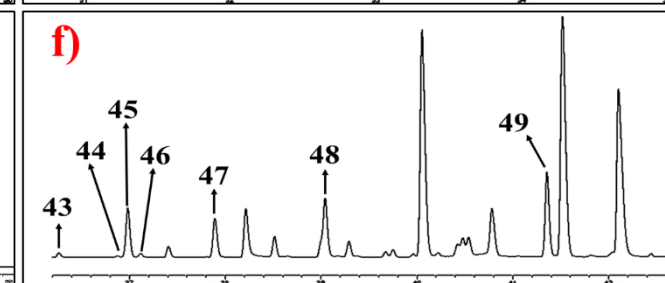
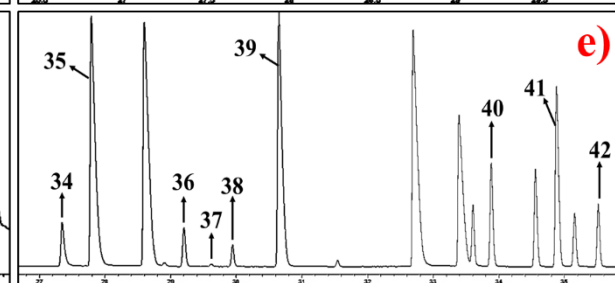
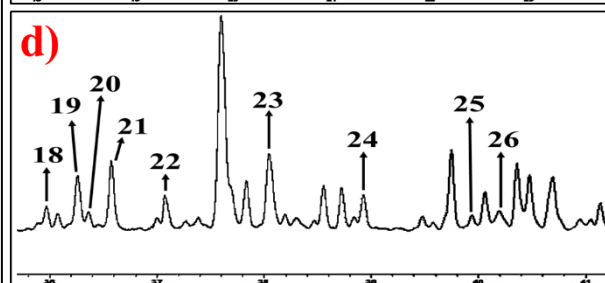
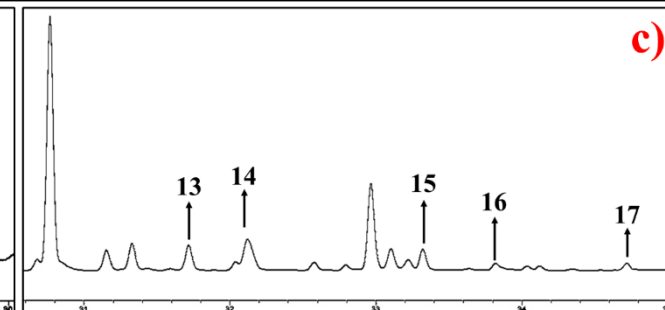
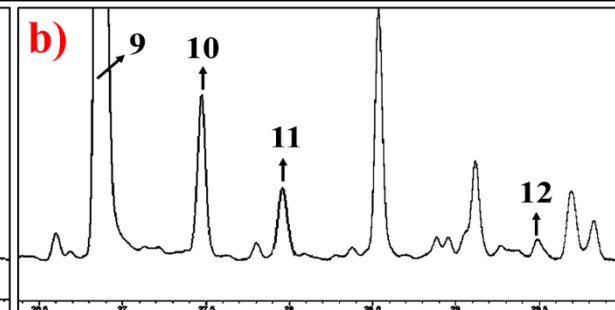
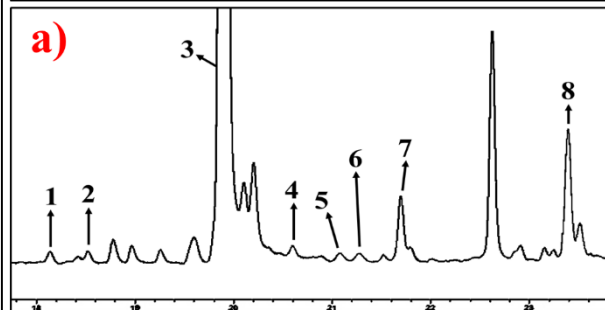
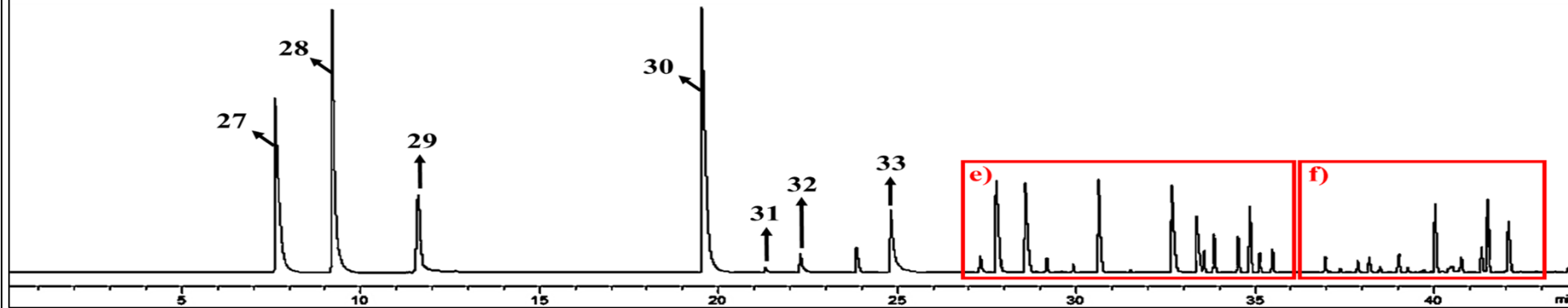


# Garbage burning (Flaming stage)

FID 1/DB-1 column

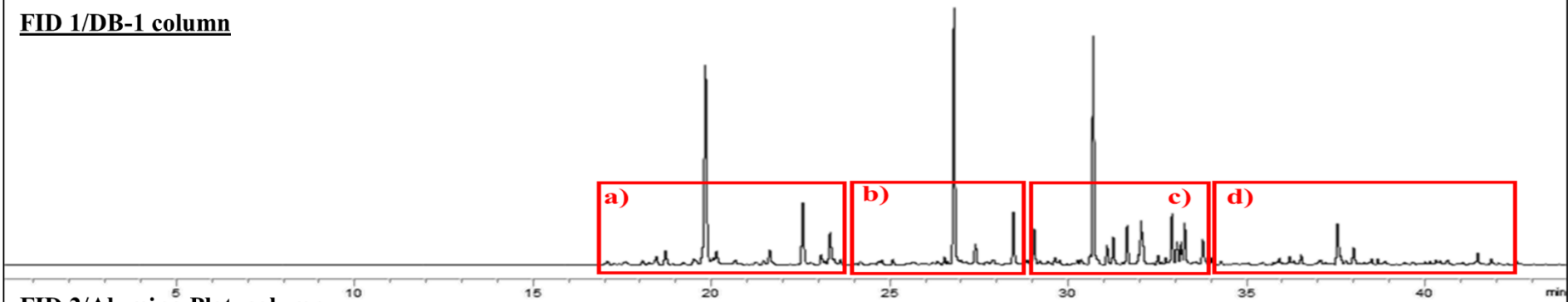


FID 2/Alumina Plot column

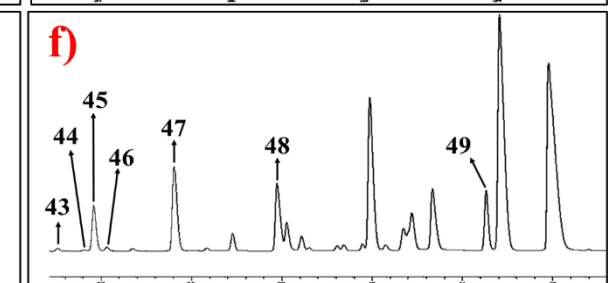
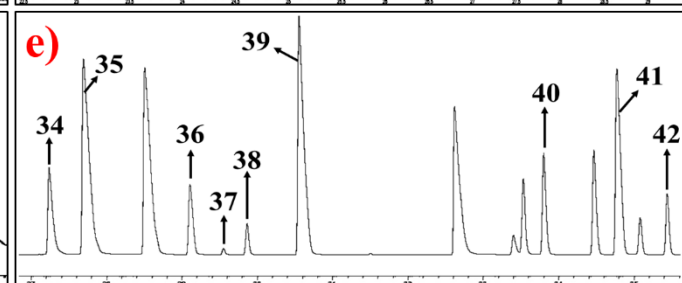
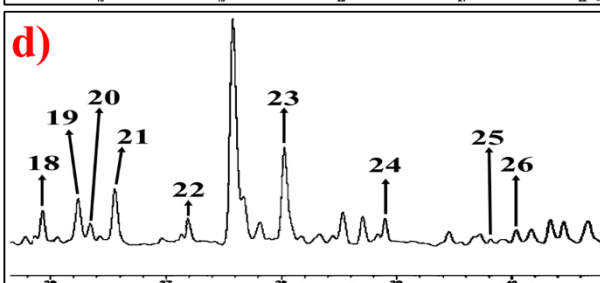
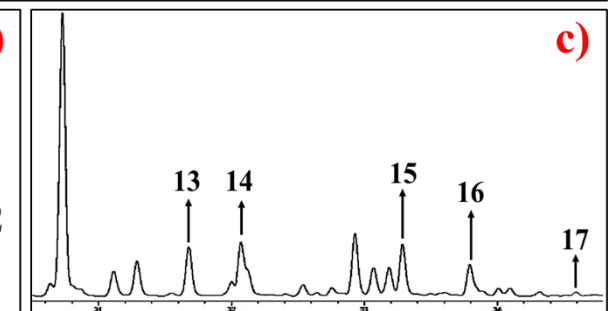
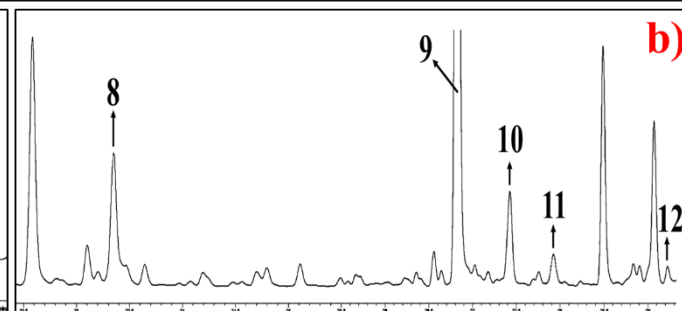
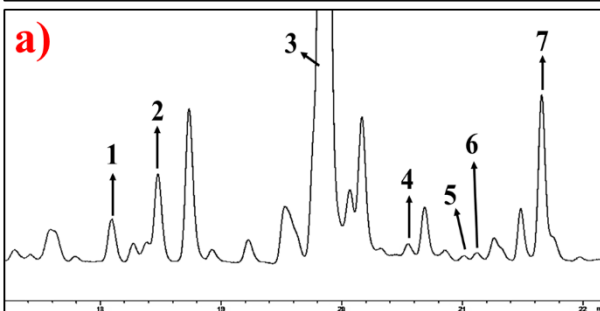
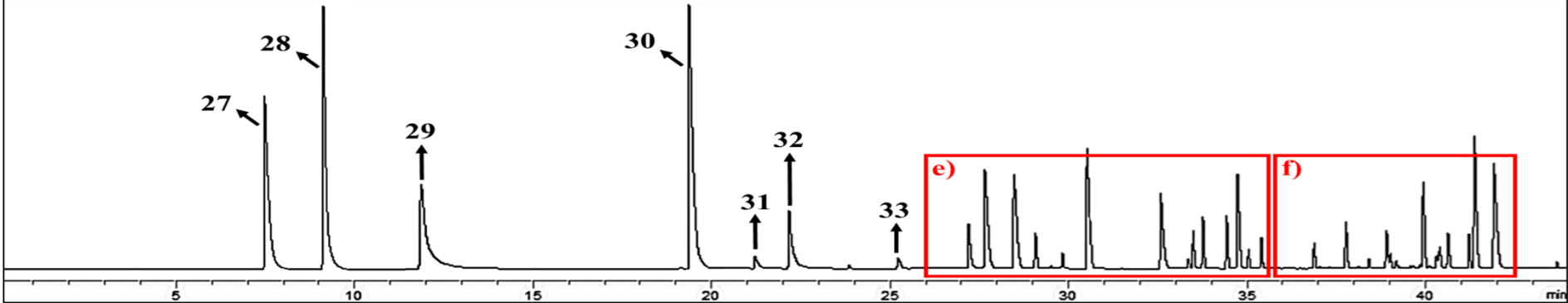


# Garbage burning (Smoldering stage)

FID 1/DB-1 column

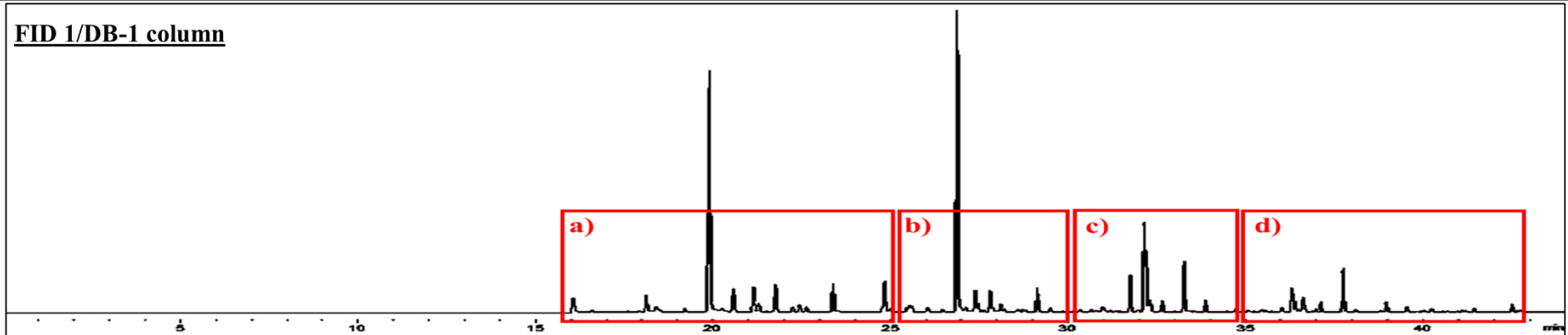


FID 2/Alumina Plot column

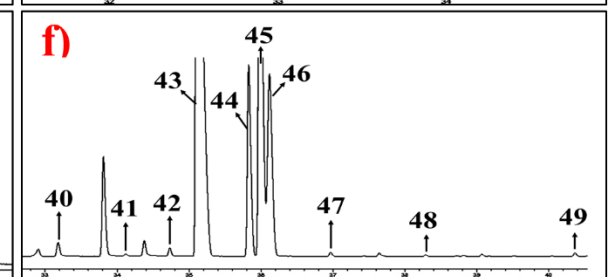
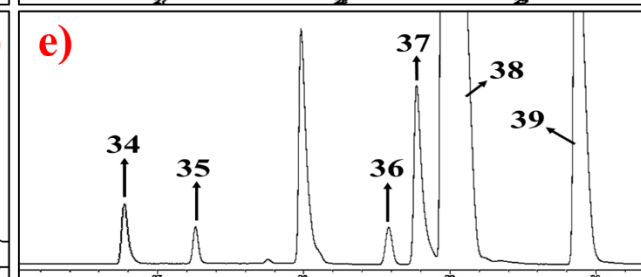
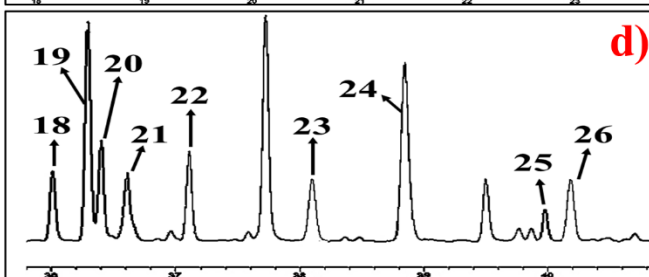
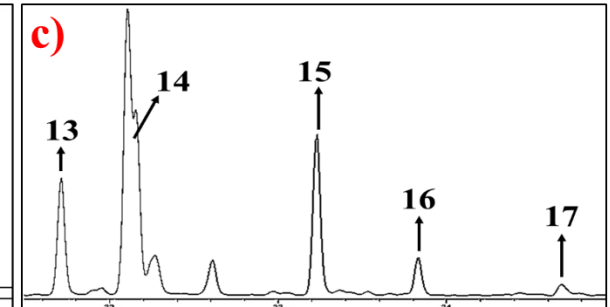
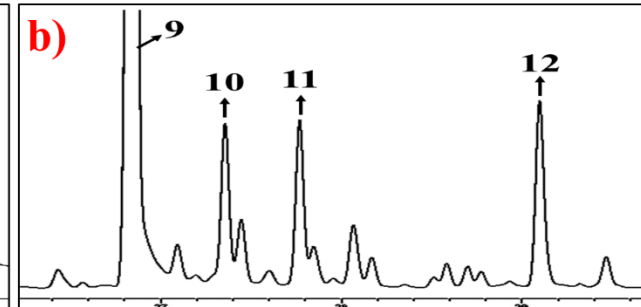
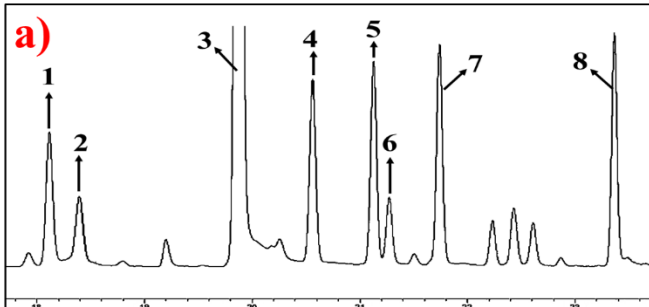
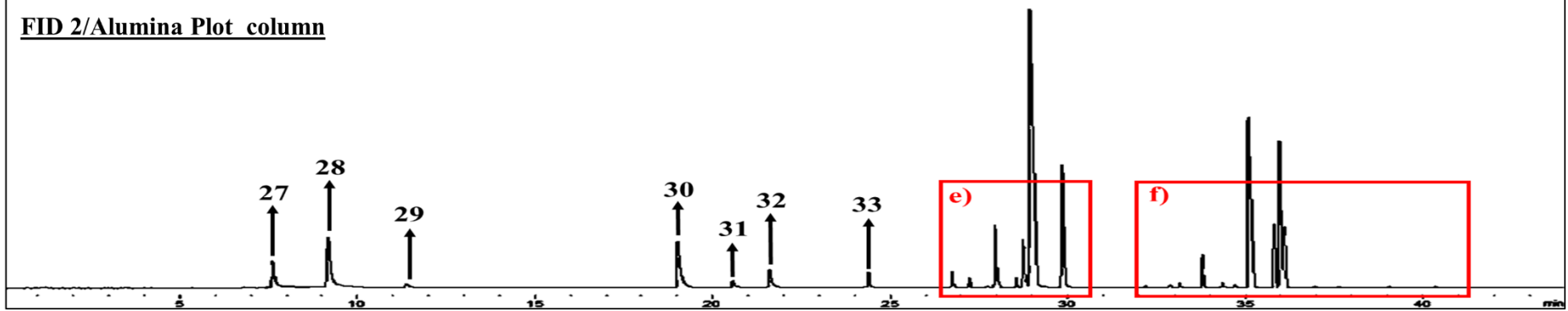


# Petrol vehicular exhaust (four-wheeler light duty vehicle)

FID 1/DB-1 column

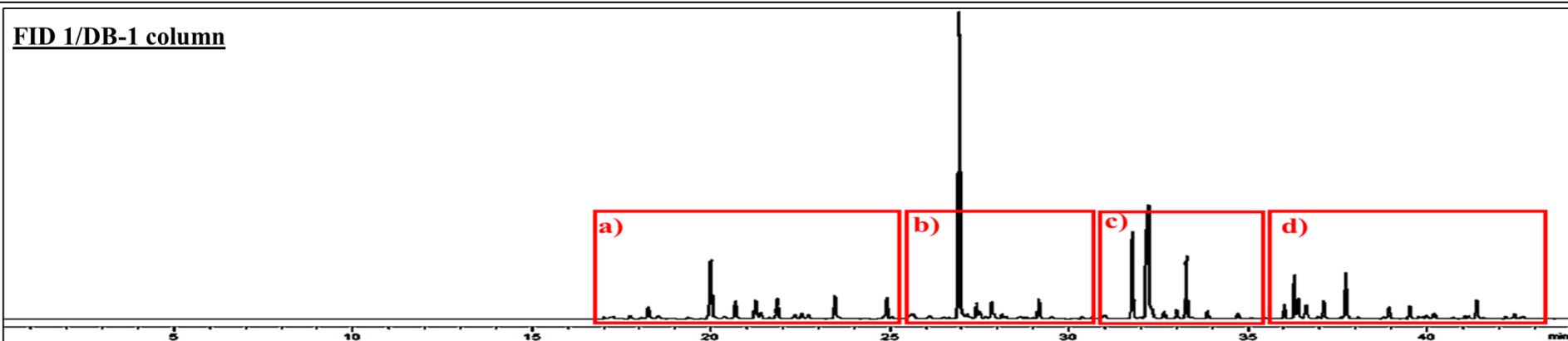


FID 2/Alumina Plot column

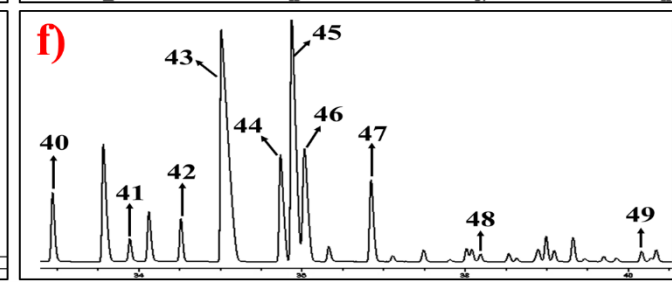
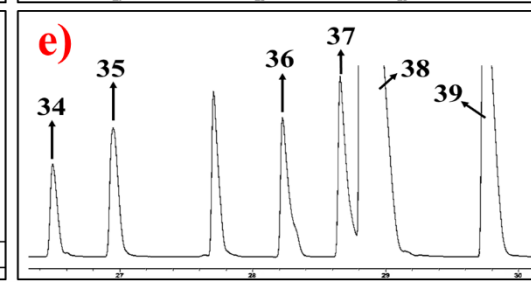
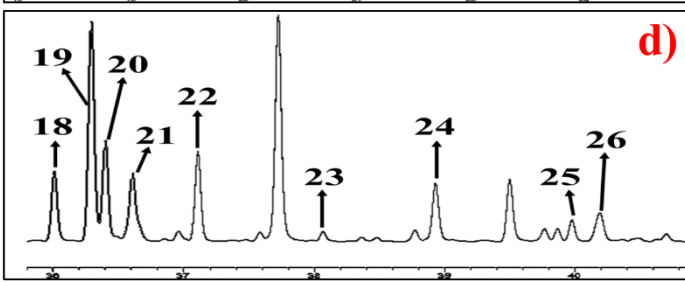
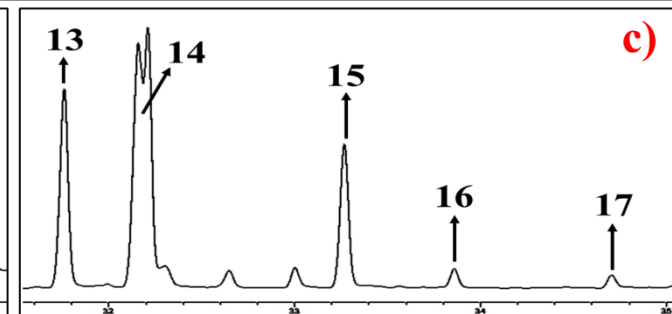
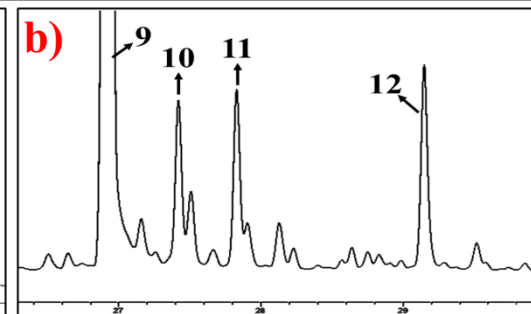
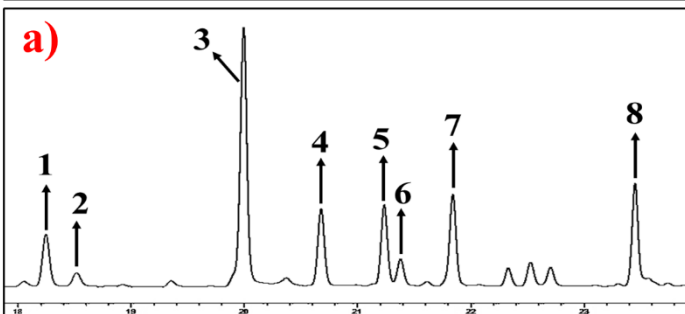
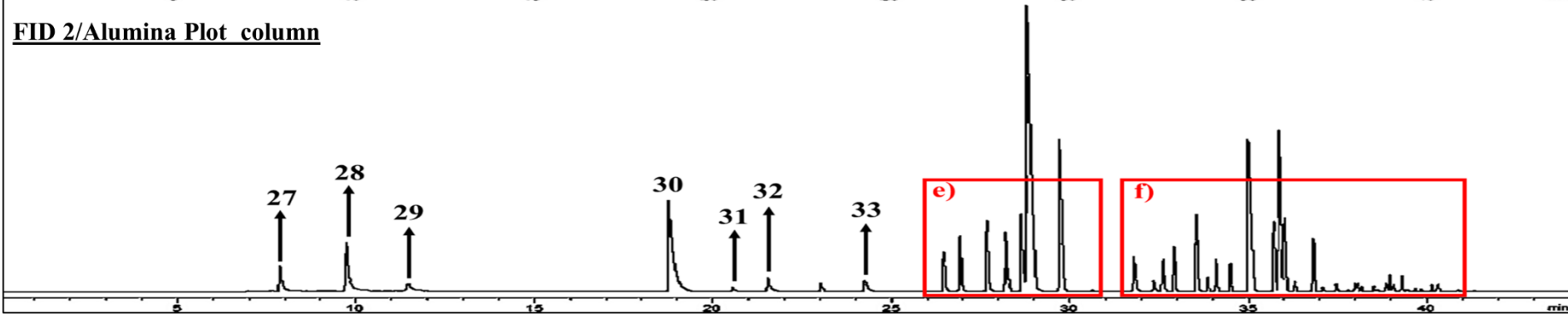


# Petrol vehicular exhaust (two-wheeler)

FID 1/DB-1 column



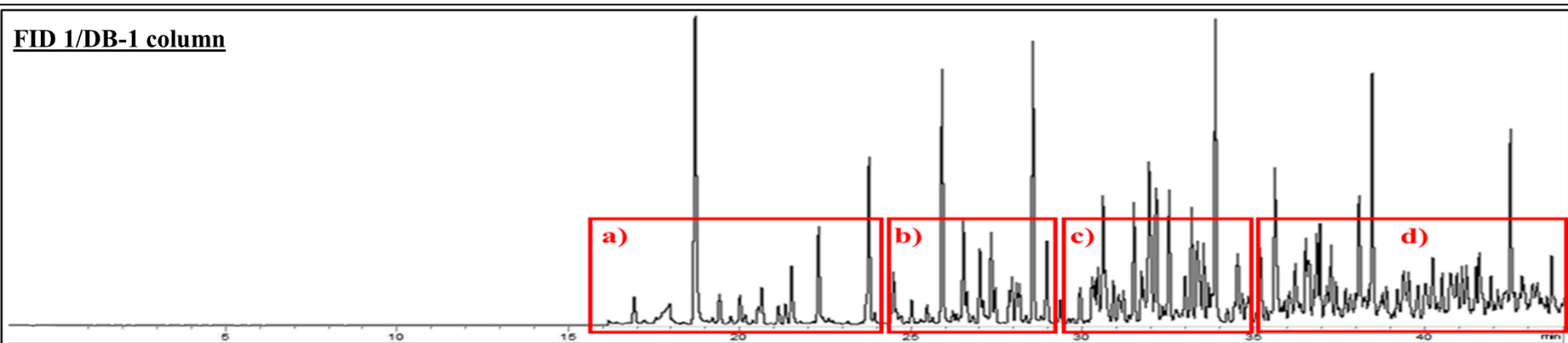
FID 2/Alumina Plot column



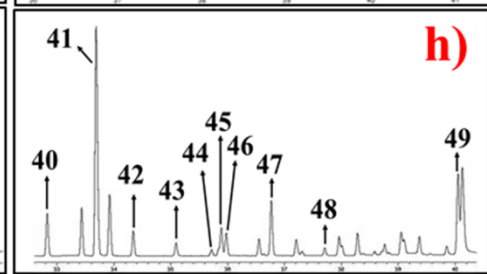
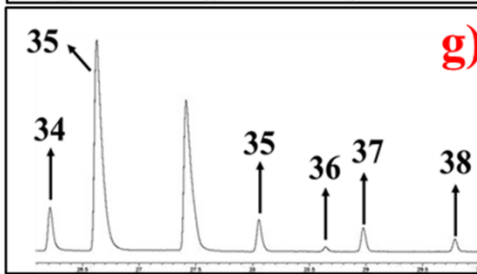
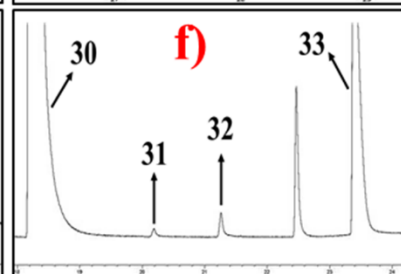
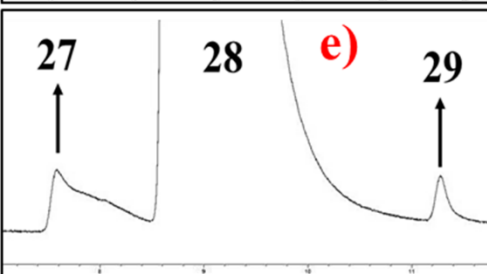
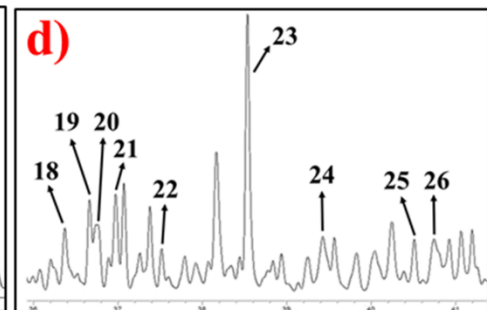
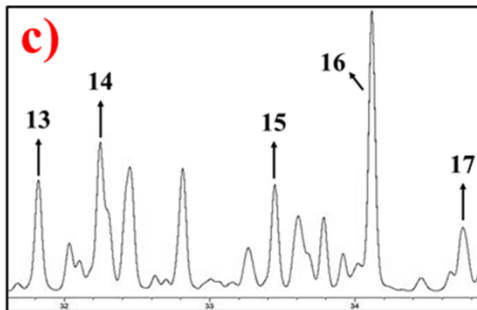
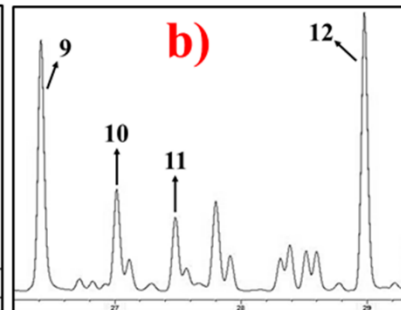
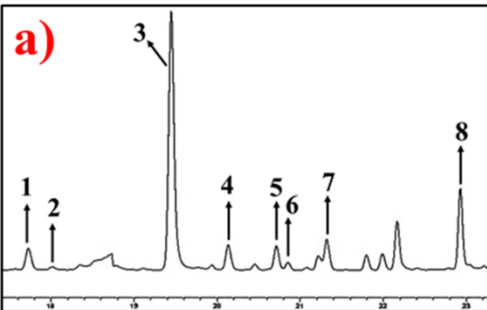
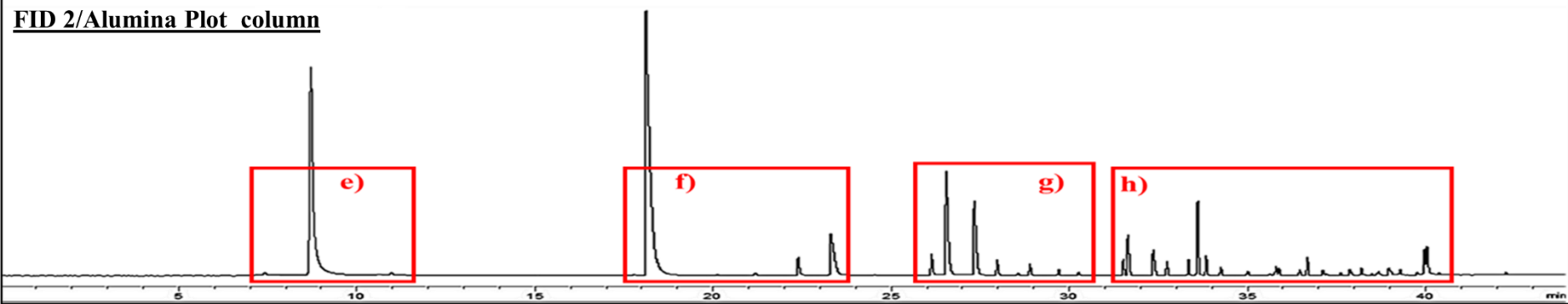


# Diesel vehicular exhaust (heavy duty vehicle)

FID 1/DB-1 column

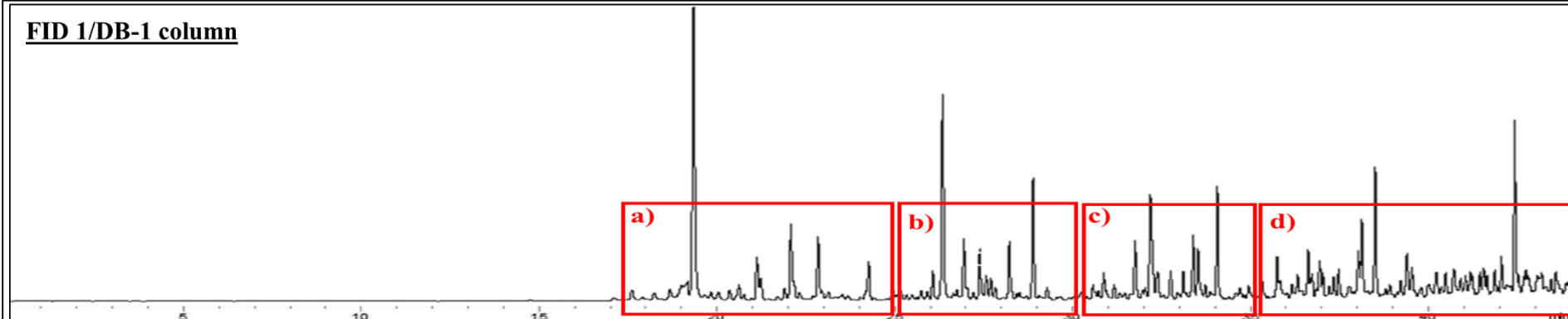


FID 2/Alumina Plot column

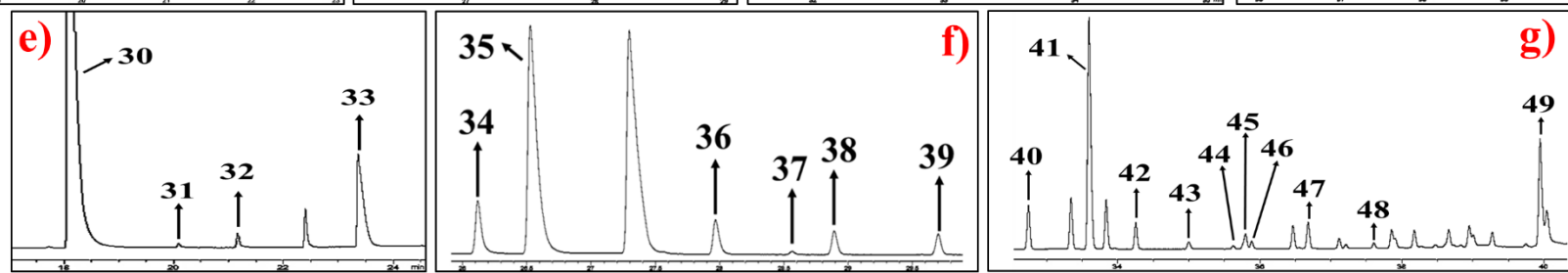
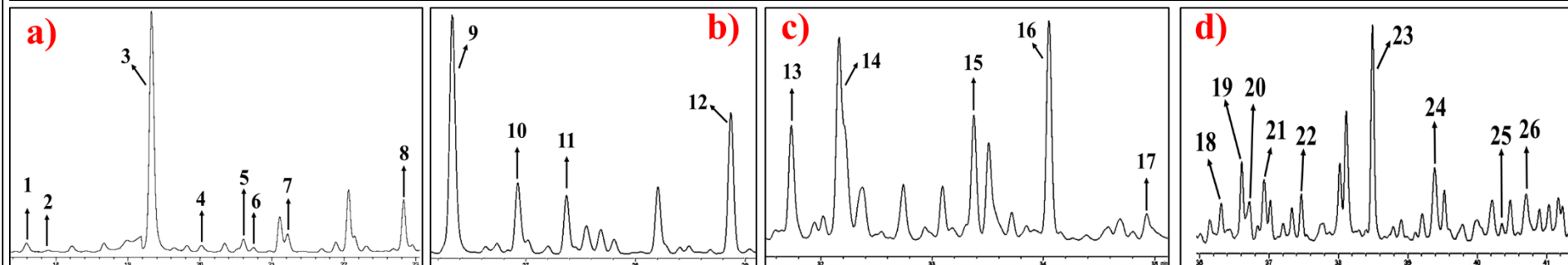
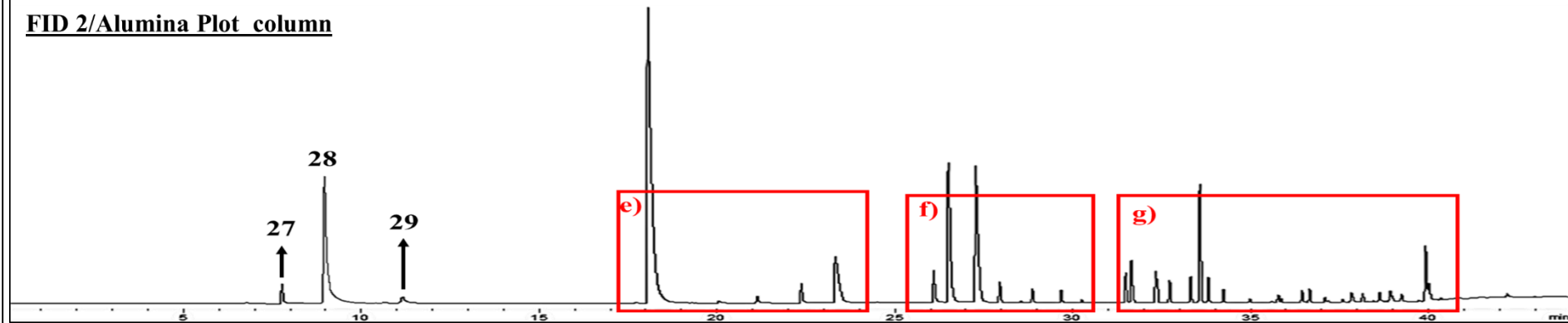


# Diesel vehicular exhaust (three wheeler light duty vehicle)

FID 1/DB-1 column

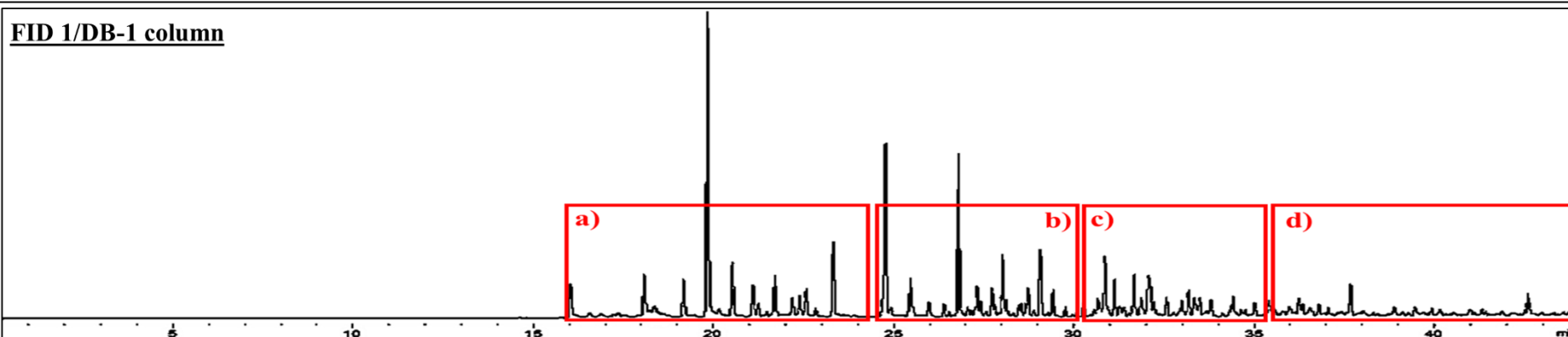


FID 2/Alumina Plot column

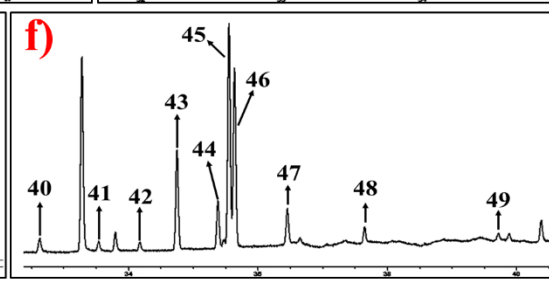
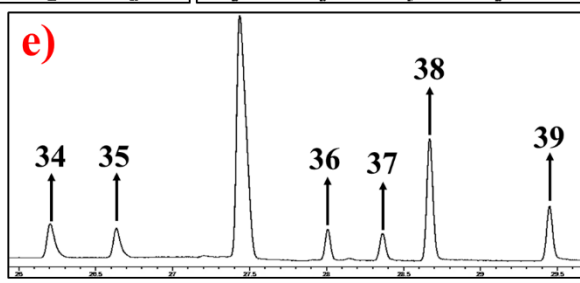
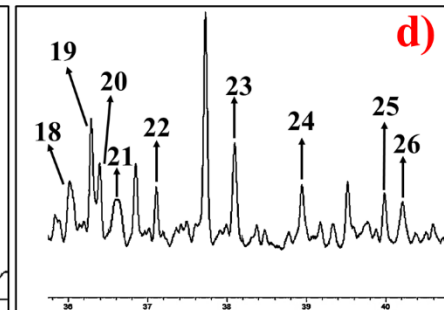
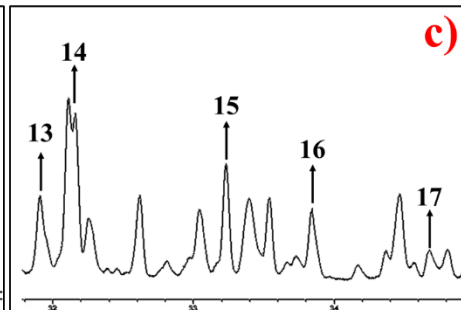
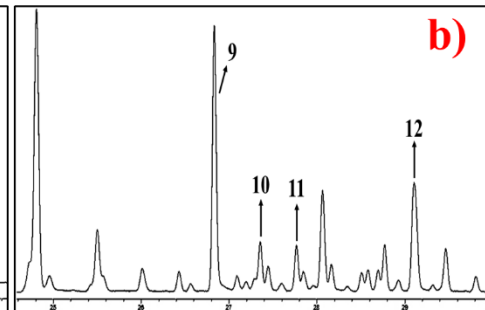
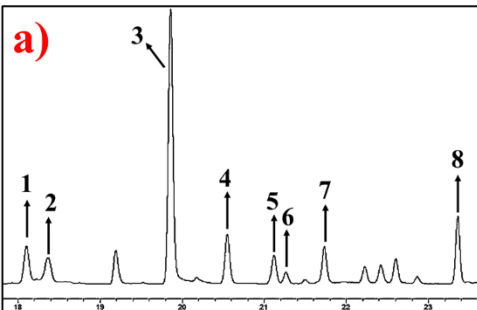
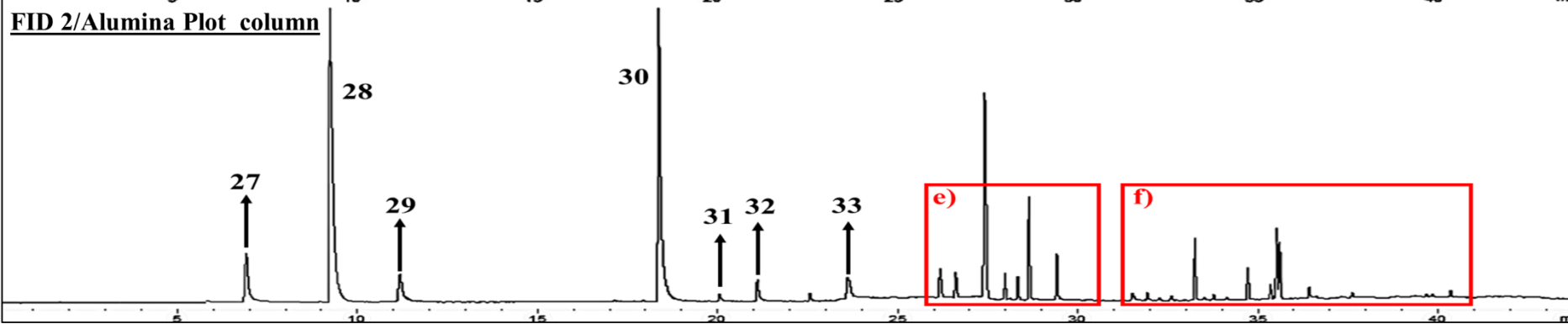


# Diesel vehicular exhaust (four wheeler light duty vehicle)

**FID 1/DB-1 column**

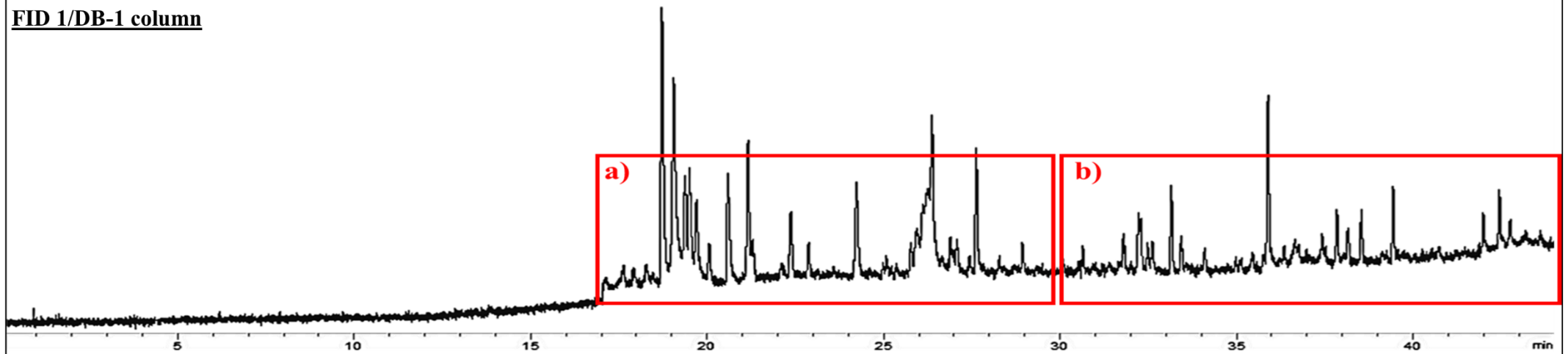


**FID 2/Alumina Plot column**

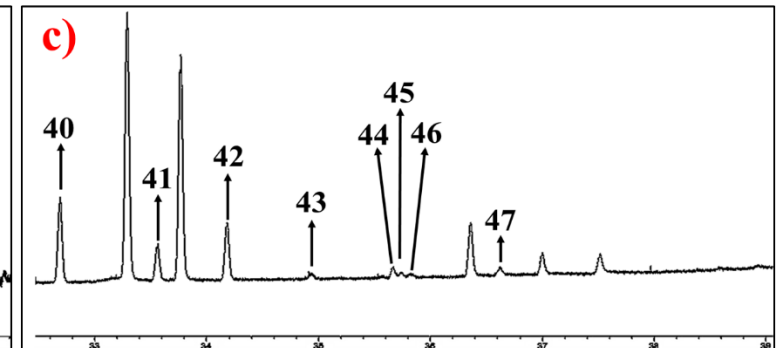
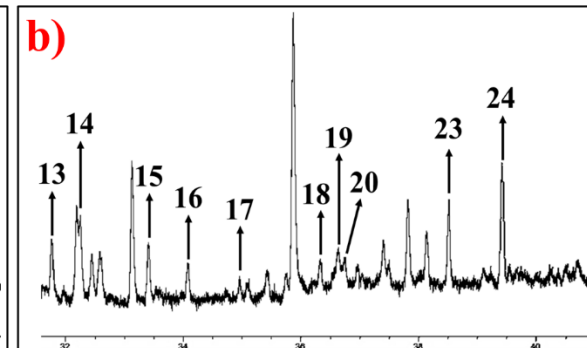
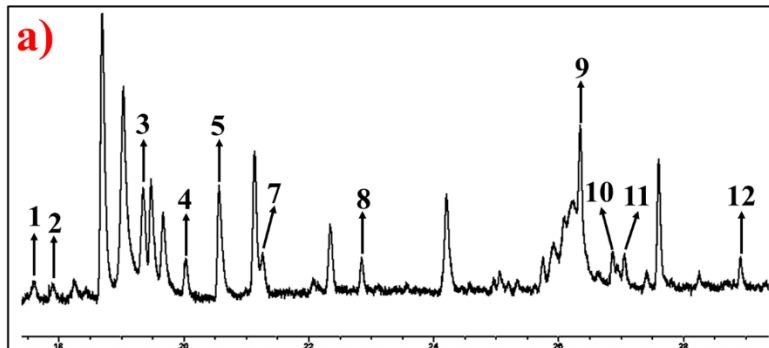
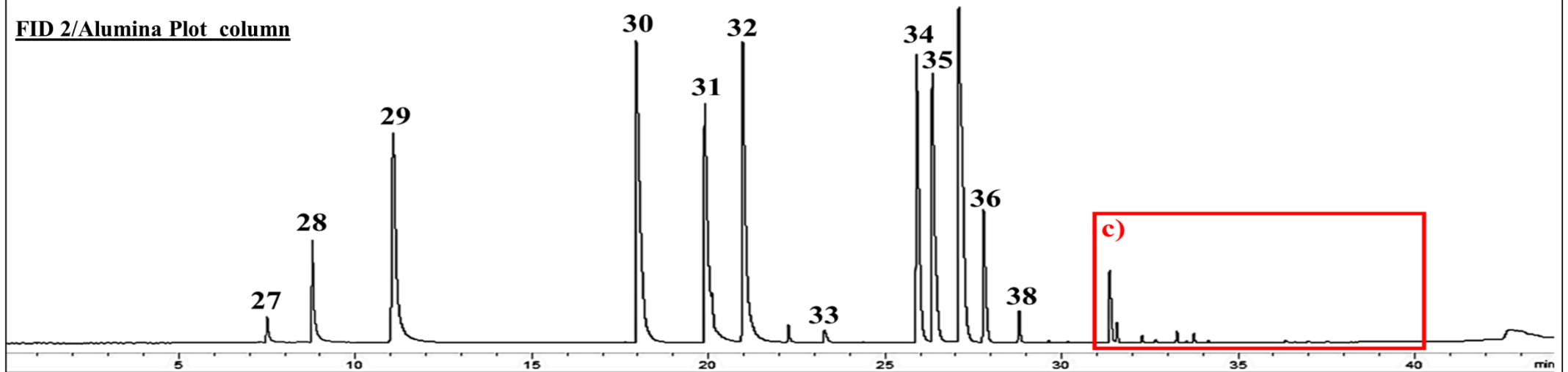


# LPG vehicular exhaust (three wheeler light duty vehicle)

FID 1/DB-1 column

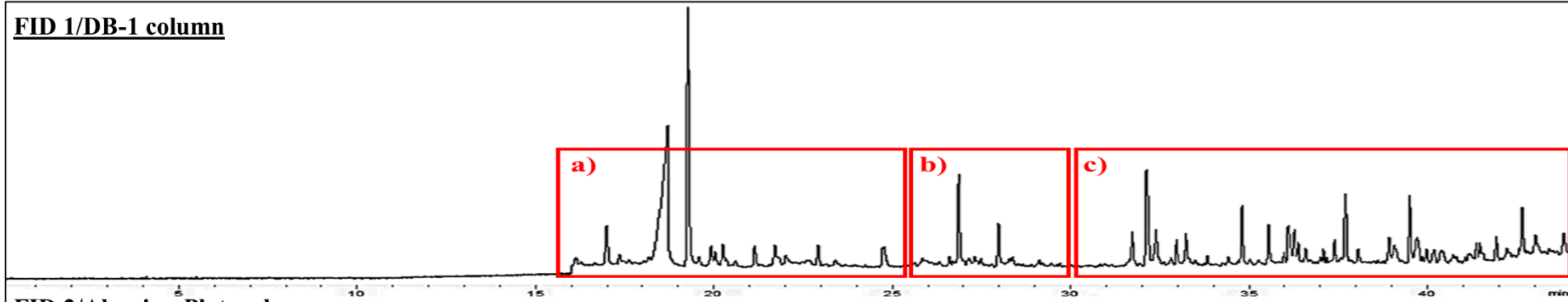


FID 2/Alumina Plot column

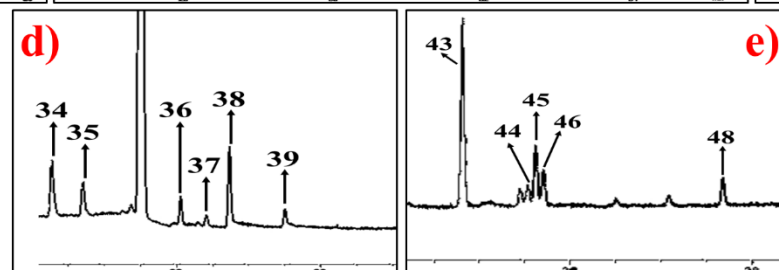
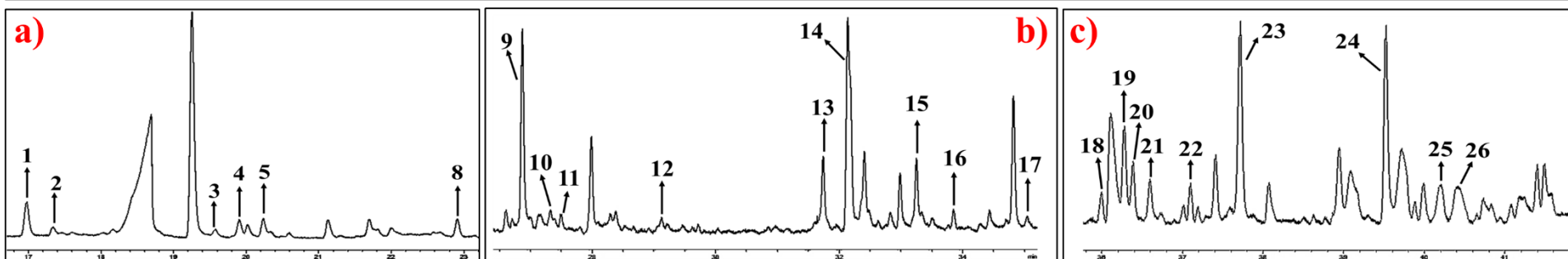
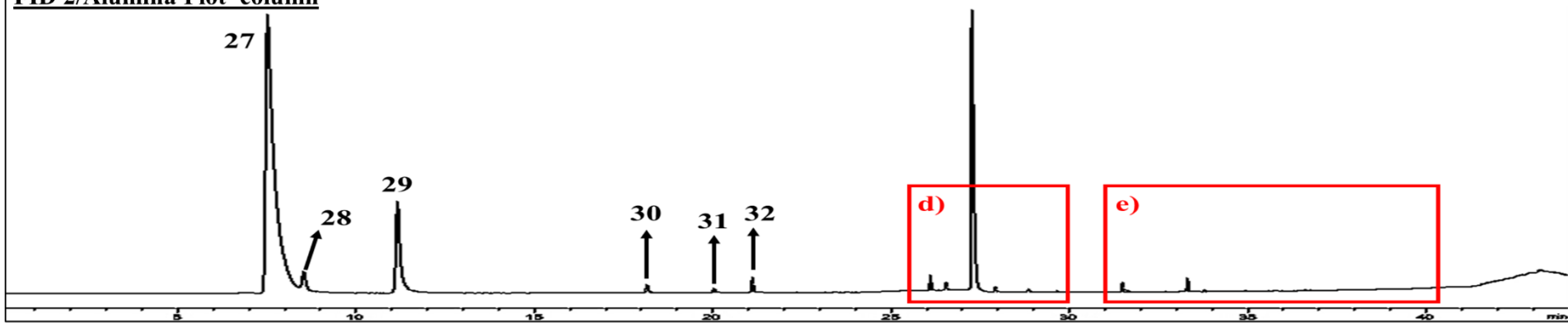


# CNG vehicular exhaust (three wheeler light duty vehicle)

FID 1/DB-1 column

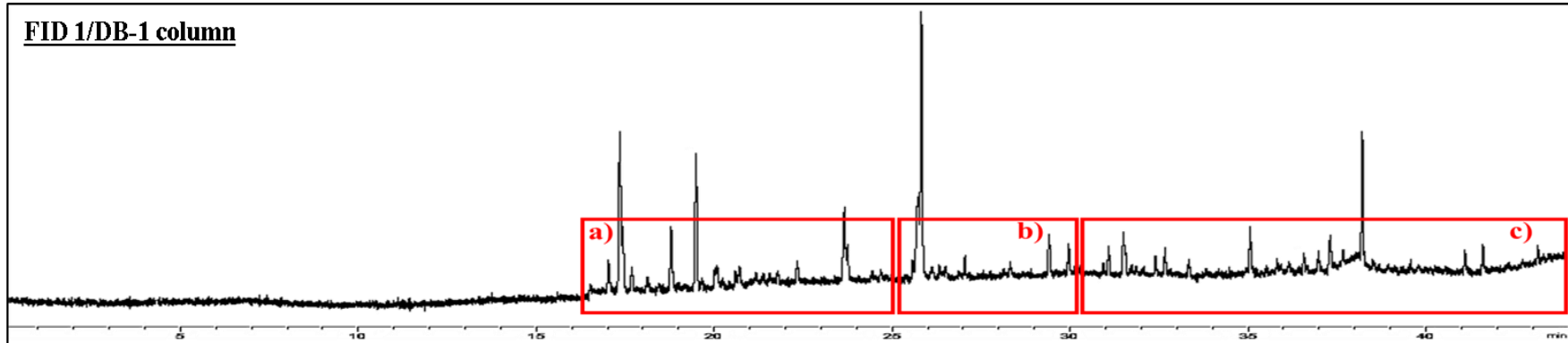


FID 2/Alumina Plot column

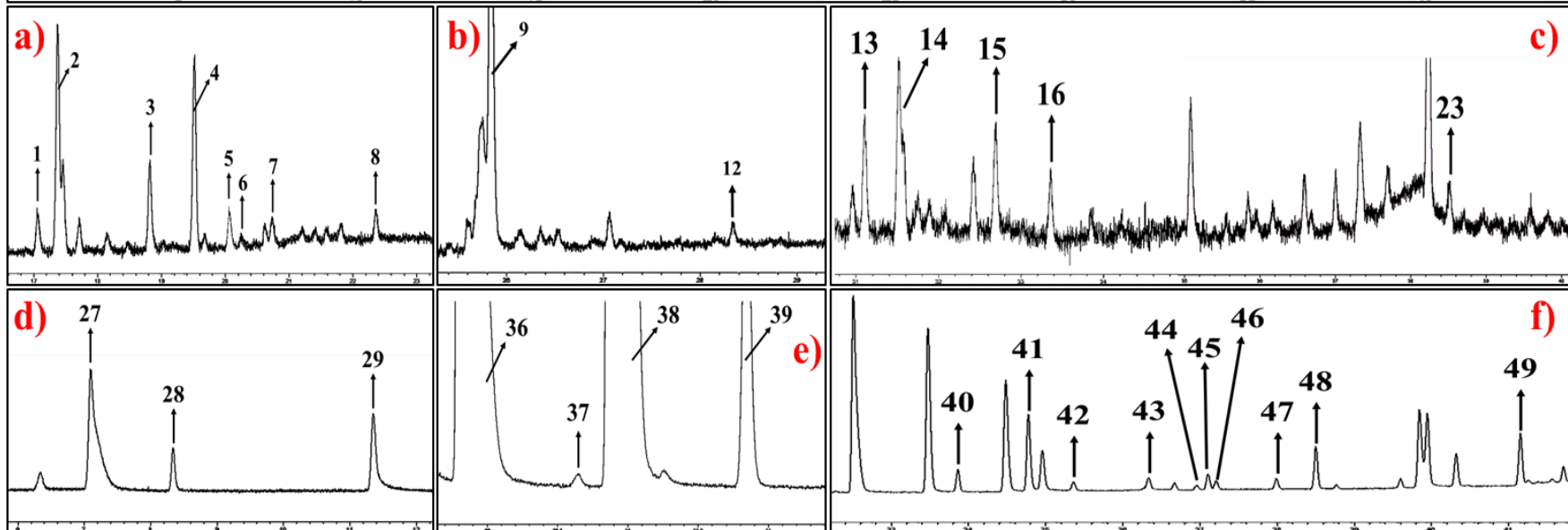
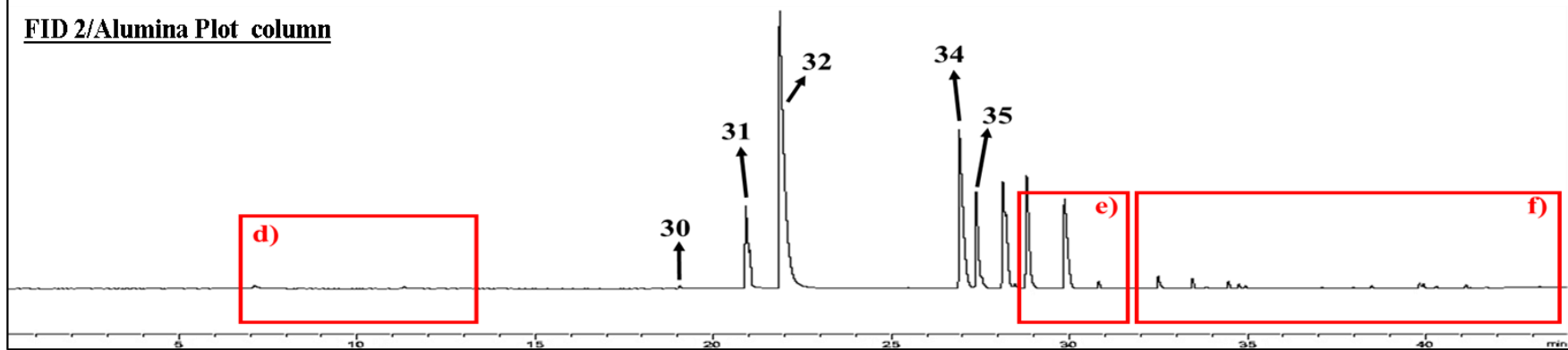


# Commercial LPG evaporative emissions

FID 1/DB-1 column

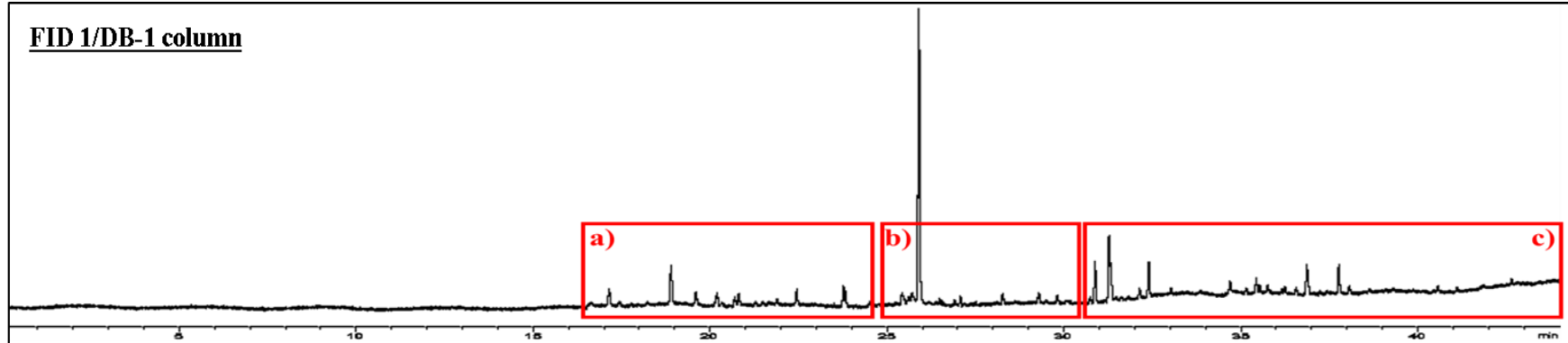


FID 2/Alumina Plot column

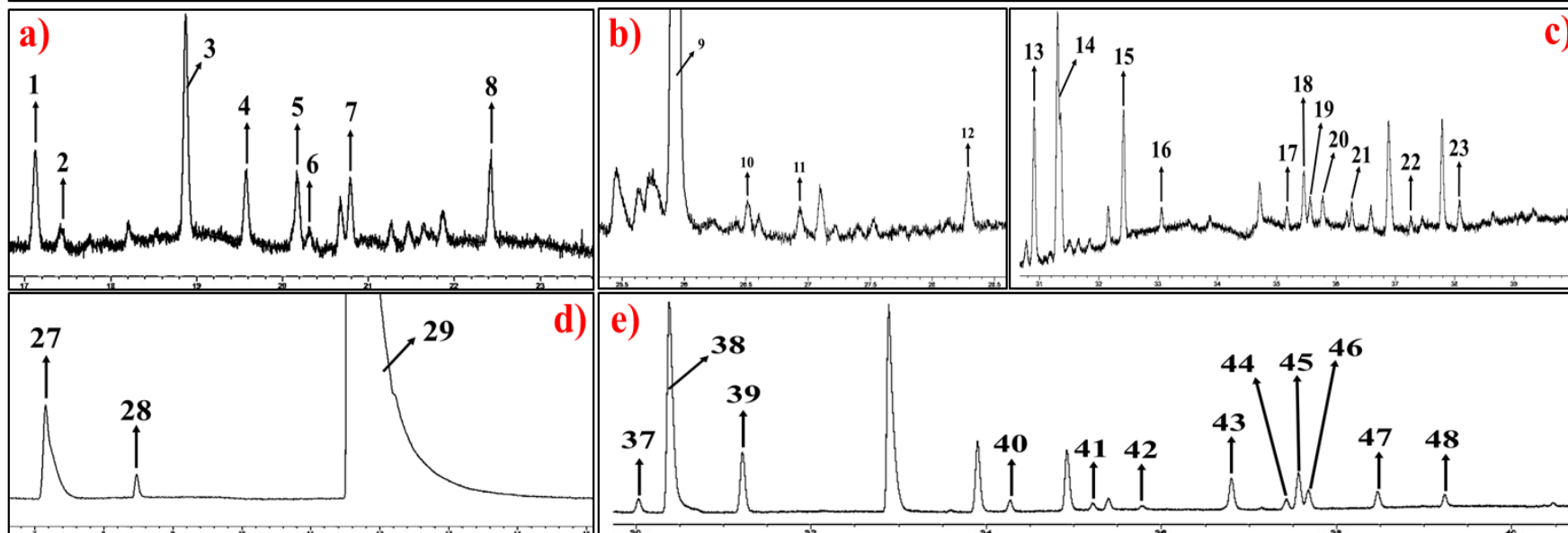
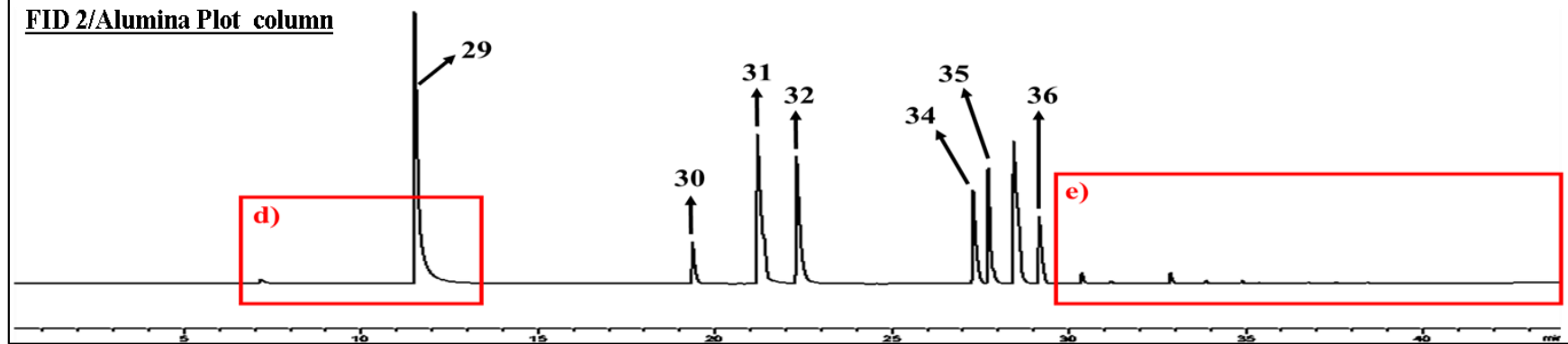


# Domestic LPG evaporative emissions

FID 1/DB-1 column

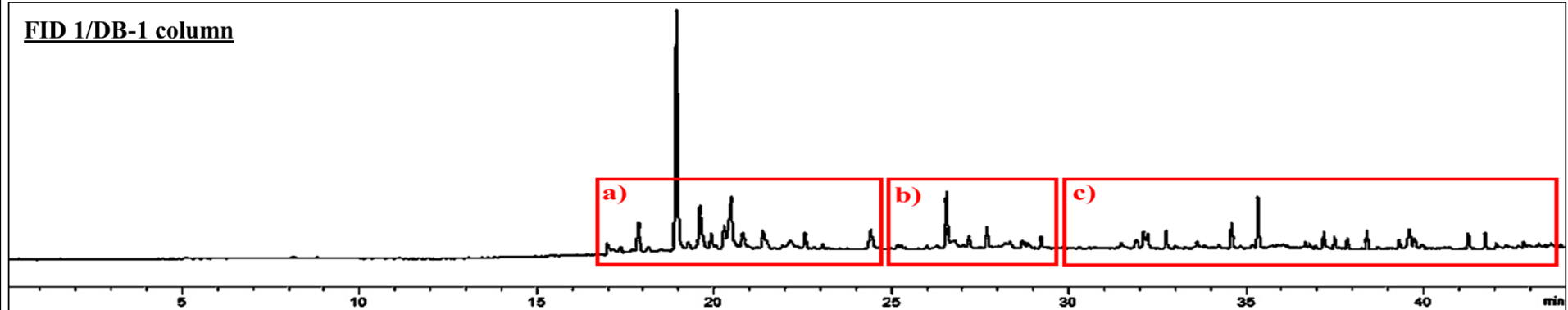


FID 2/Alumina Plot column

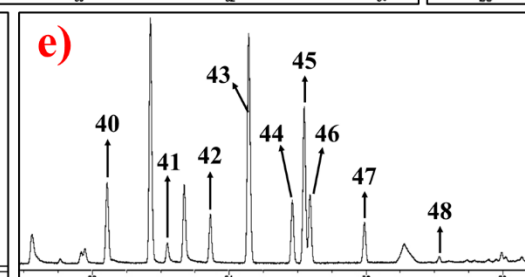
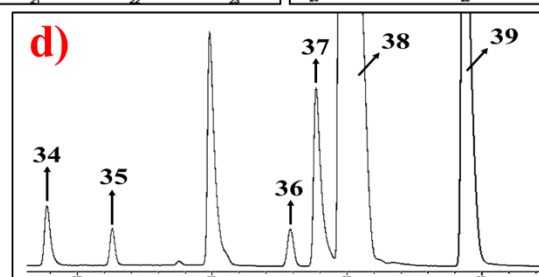
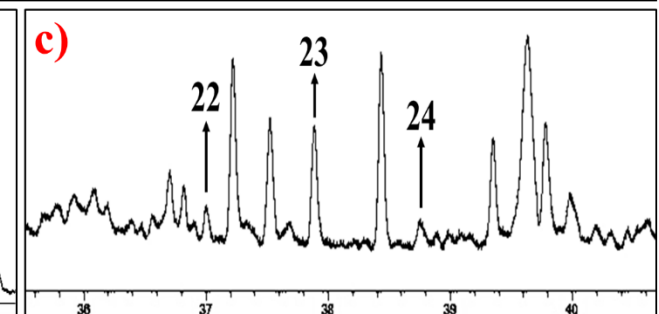
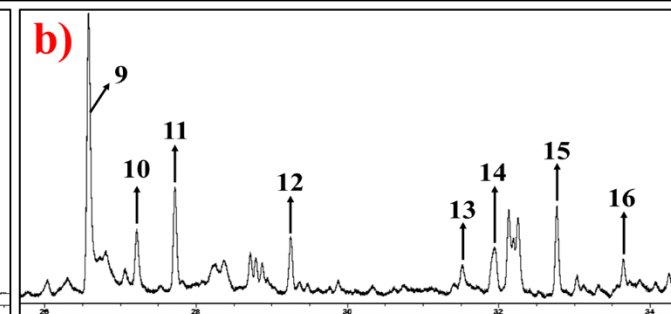
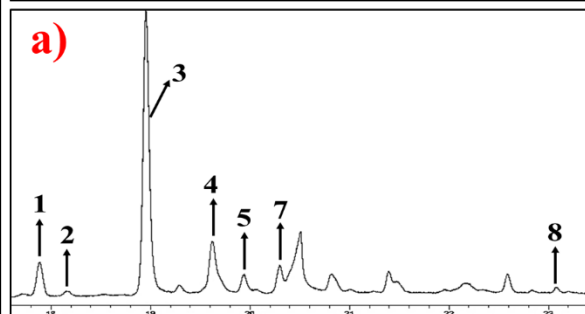
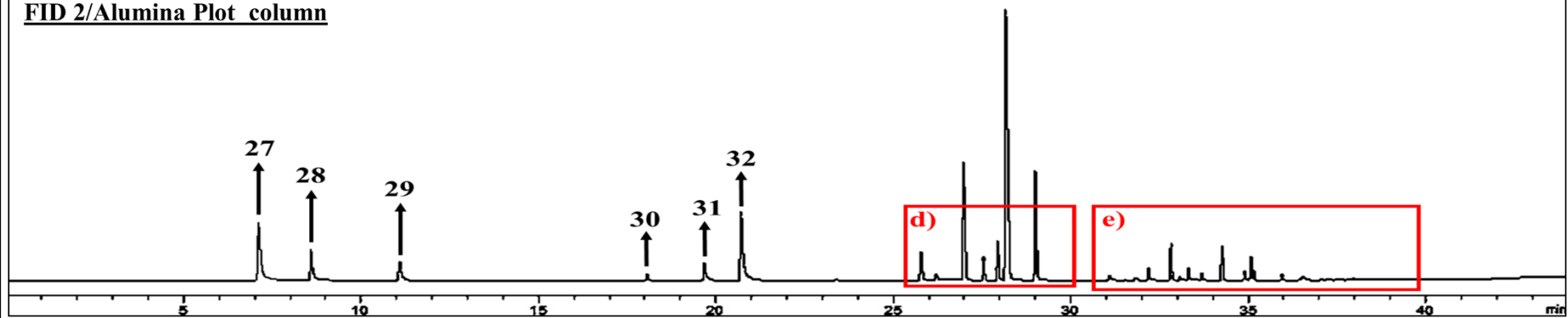


# Petrol evaporative emissions

FID 1/DB-1 column



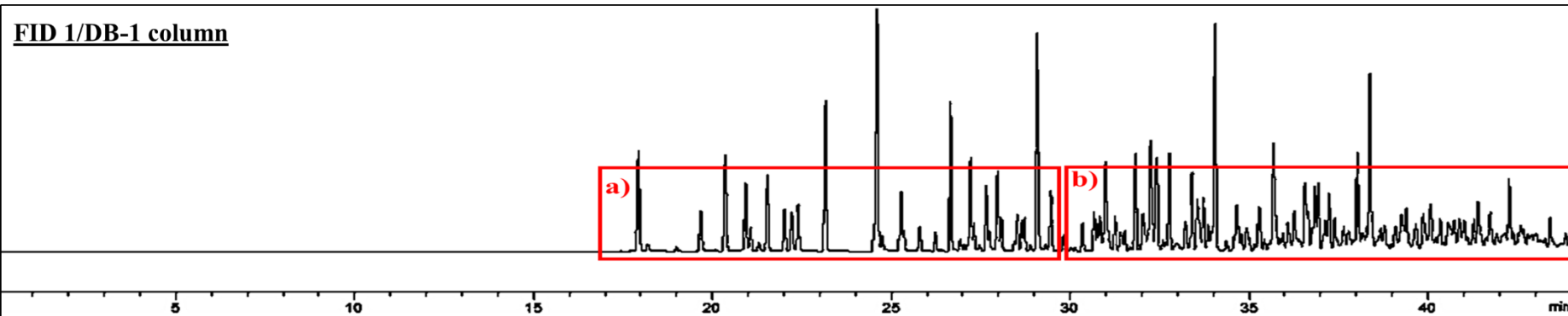
FID 2/Alumina Plot column





# Diesel evaporative emissions

FID 1/DB-1 column



FID 2/Alumina Plot column

