

SUPPLEMENTARY MATERIALS

Supplemental Table 1: The average peak height with different cycles

Locus	Allele	Average Peak Height				
		26 Cycle	28 Cycle	29 Cycle	30 Cycle	32 Cycle
D3S1358	17	402.7	1998.3	2505.7	4567.3	18298.3
	18	321.7	1634.0	2050.3	5659.3	16503.0
D13S317	9	203.3	1397.3	1649.7	3527.3	13812.0
	11	196.3	873.3	1618.0	3386.0	11398.0
D7S820	8	355.3	1121.0	2152.7	5385.3	17252.0
	11	327.3	764.7	1605.7	3972.3	12618.7
D16S539	9	297.3	1549.7	2173.0	4710.3	12665.0
	13	265.0	1598.7	1871.3	3127.3	13373.7
D2S1338	22	509.3	2155.3	3049.7	7931.7	17361.0
	25	322.0	1925.7	2968.3	4429.0	15638.3
TH01	6	731.0	2226.7	3581.0	7088.7	23073.0
	9.3	627.3	1915.3	4139.0	6621.0	21554.0
D18S51	16	470.0	2313.3	2798.7	5699.3	16478.0
	18	574.3	1840.3	2986.7	3830.0	23960.3
TPOX	11	377.3	1463.7	2410.7	3543.7	18567.0
vWA	16	202.0	965.3	1530.0	2797.7	7610.0
	19	170.0	822.7	1362.3	2585.0	7109.0
D21S11	29	302.7	785.0	922.7	2535.3	9524.7
	31.2	231.7	1072.3	1101.3	1939.3	6914.0
DYS391	10	480.0	1524.3	3029.3	4308.0	17141.3
D8S1179	14	297.0	1098.3	2014.0	3258.3	14475.3
	15	204.0	1024.0	1990.3	4152.7	10265.7
D5S818	12	605.3	2456.3	4406.7	8878.0	27478.7
CSF1PO	12	627.3	3526.7	6212.7	8036.3	27560.0
D19S433	13	495.7	3185.0	3652.3	6063.3	21382.0
	14	547.0	1449.3	2608.7	7624.7	20435.0
FGA	20	250.7	1587.3	2884.3	6734.3	20187.7
	23	258.0	1711.0	3047.3	5271.7	19555.7

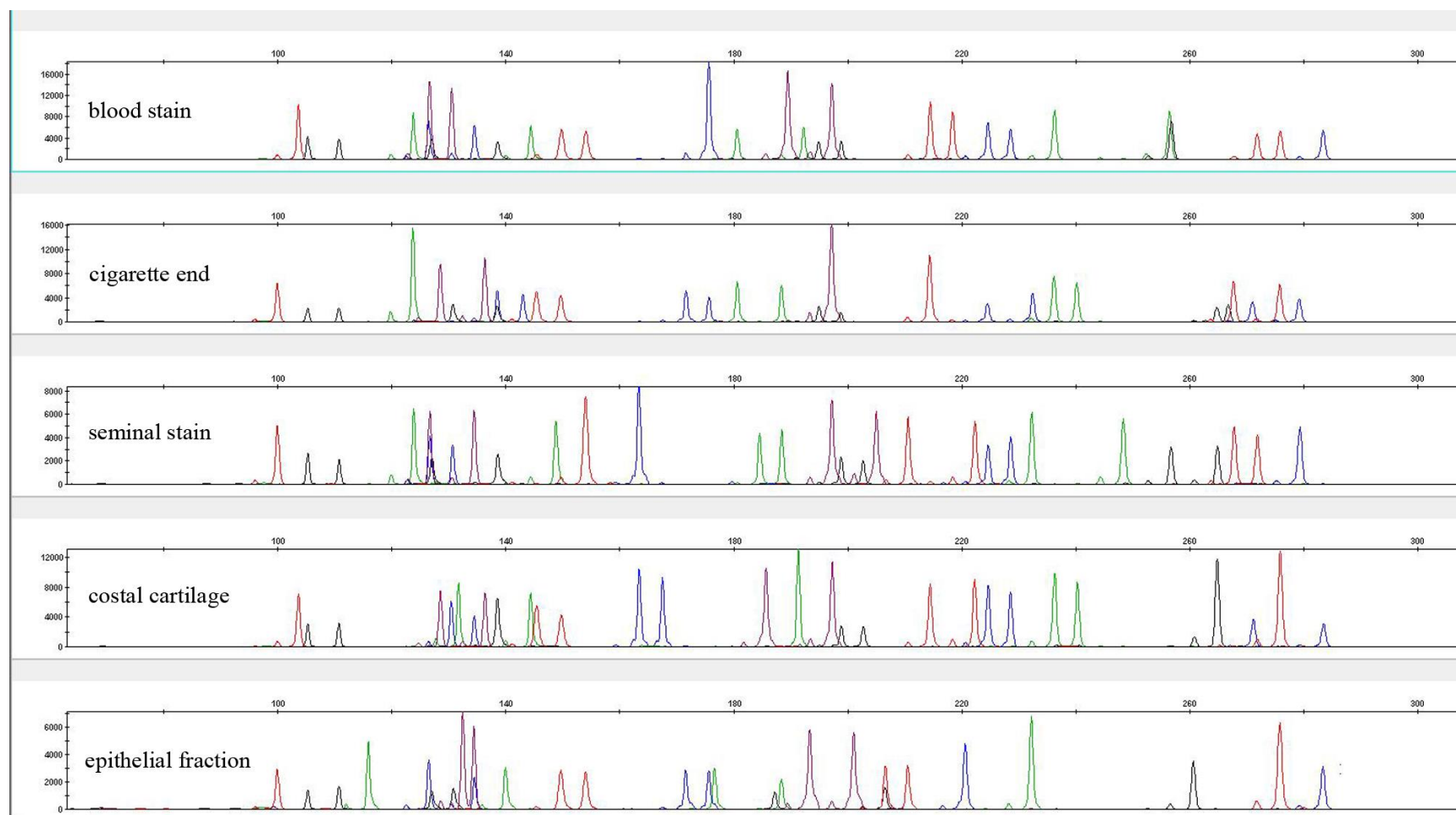
Supplemental Table 2: Allele frequencies of 15 autosomal STR loci in Guangdong Han population

[illegible]

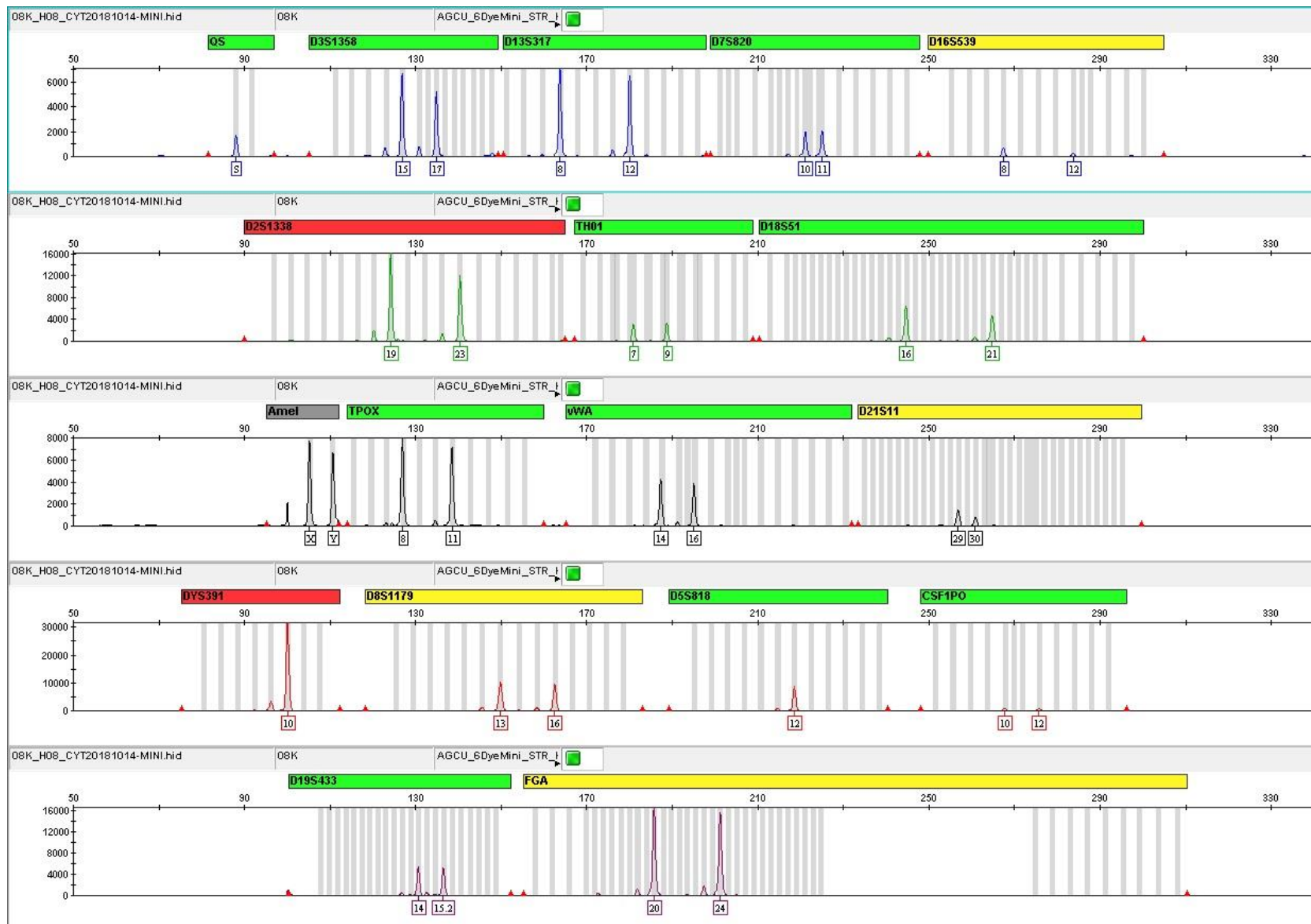
Supplemental Table 3: The forensic parameters of 15 autosomal STR loci

Marker	DP	PE	PIC	H
D3S1358	0.868	0.503	0.674	0.746
D13S317	0.936	0.545	0.777	0.770
D7S820	0.921	0.586	0.752	0.793
D16S539	0.924	0.566	0.760	0.782
D2S1338	0.965	0.651	0.853	0.827
TH01	0.857	0.447	0.645	0.712
D18S51	0.963	0.568	0.855	0.783
TPOX	0.793	0.236	0.552	0.551
vWA	0.918	0.641	0.758	0.822
D21S11	0.94	0.654	0.807	0.829
D8S1179	0.958	0.624	0.837	0.813
D5S818	0.913	0.486	0.734	0.736
CSF1PO	0.862	0.478	0.678	0.731
D19S433	0.942	0.680	0.791	0.843
FGA	0.957	0.800	0.838	0.902

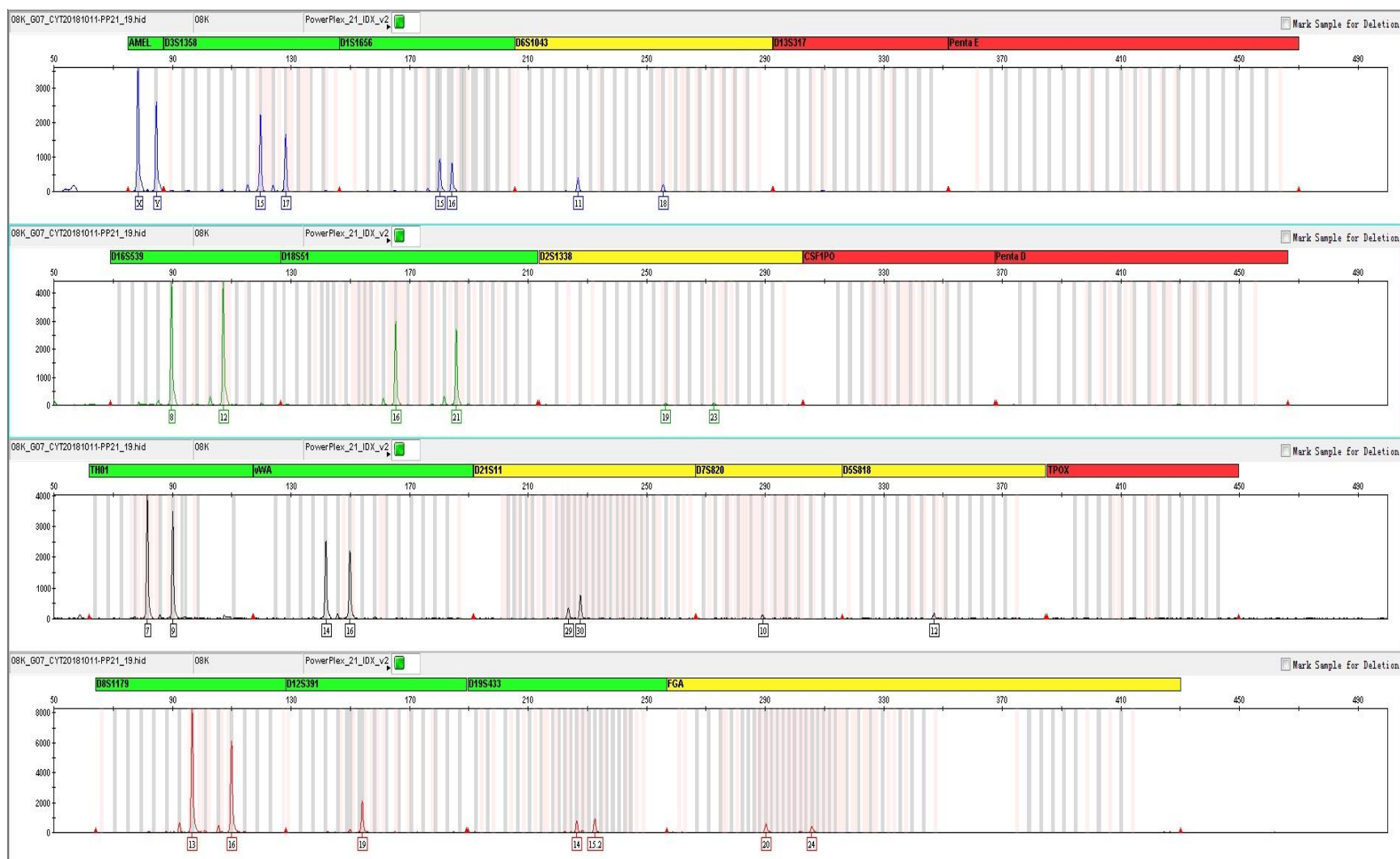
Supplemental Figure 1: The profiles of casework samples



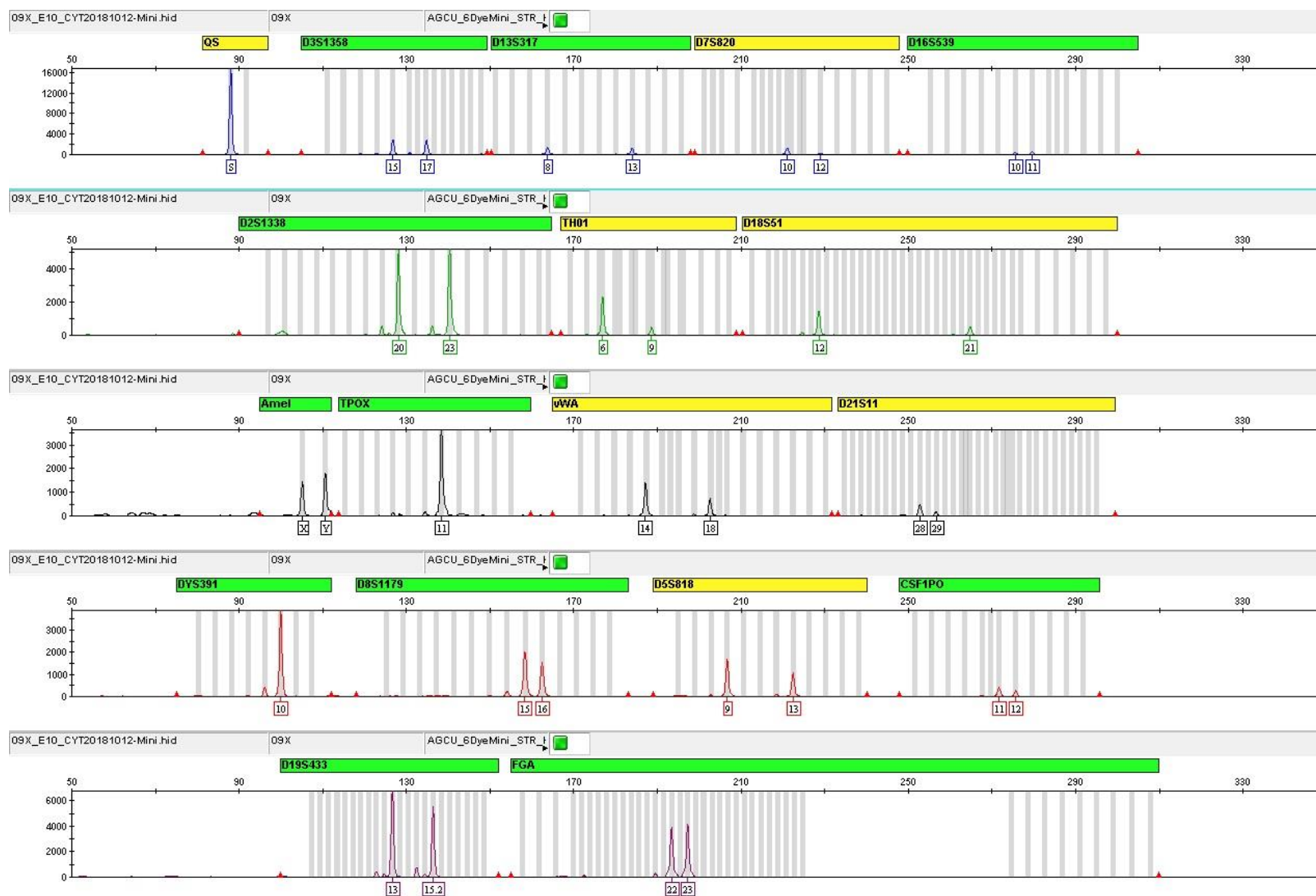
Supplemental Figure 2: The profile of an oral epithelial fraction swab that had been kept for 10 years amplified with AGCU Mini



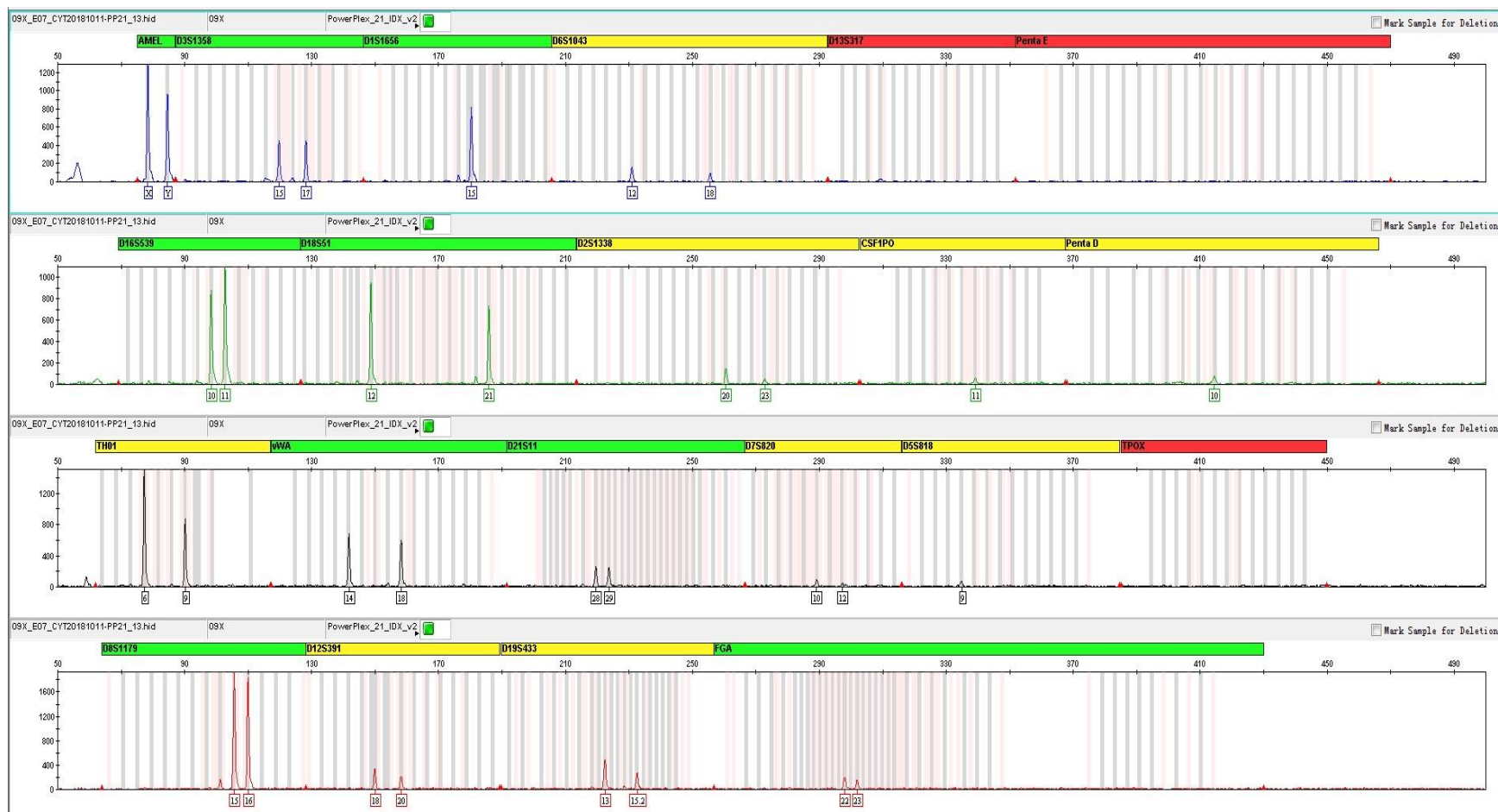
Supplemental Figure 3: The profile of an oral epithelial fraction swab that had been kept for 10 years amplified with PP21



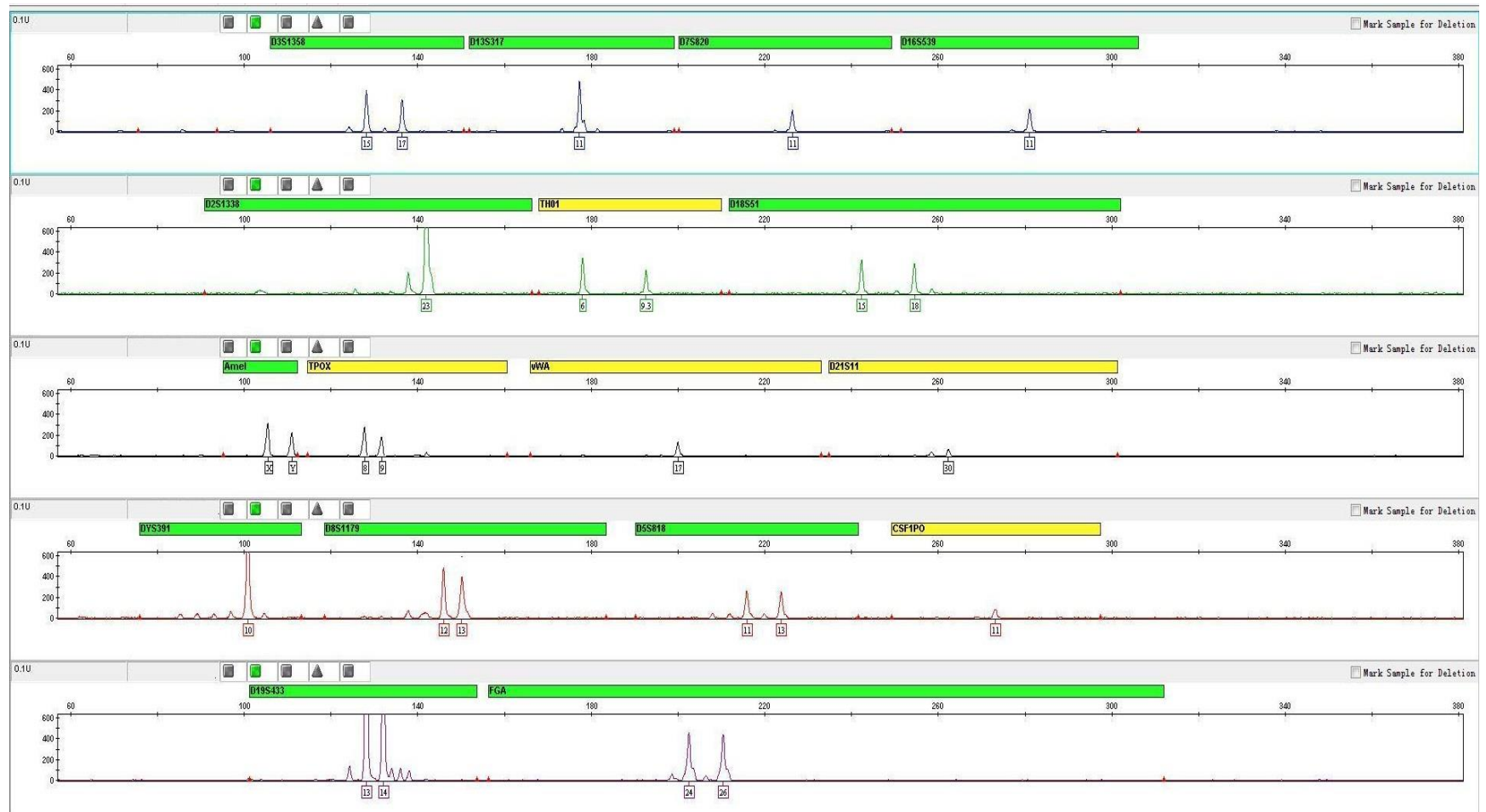
Supplemental Figure 4: The profile of a blood swab that had been kept for 9 years amplified with AGCU Mini



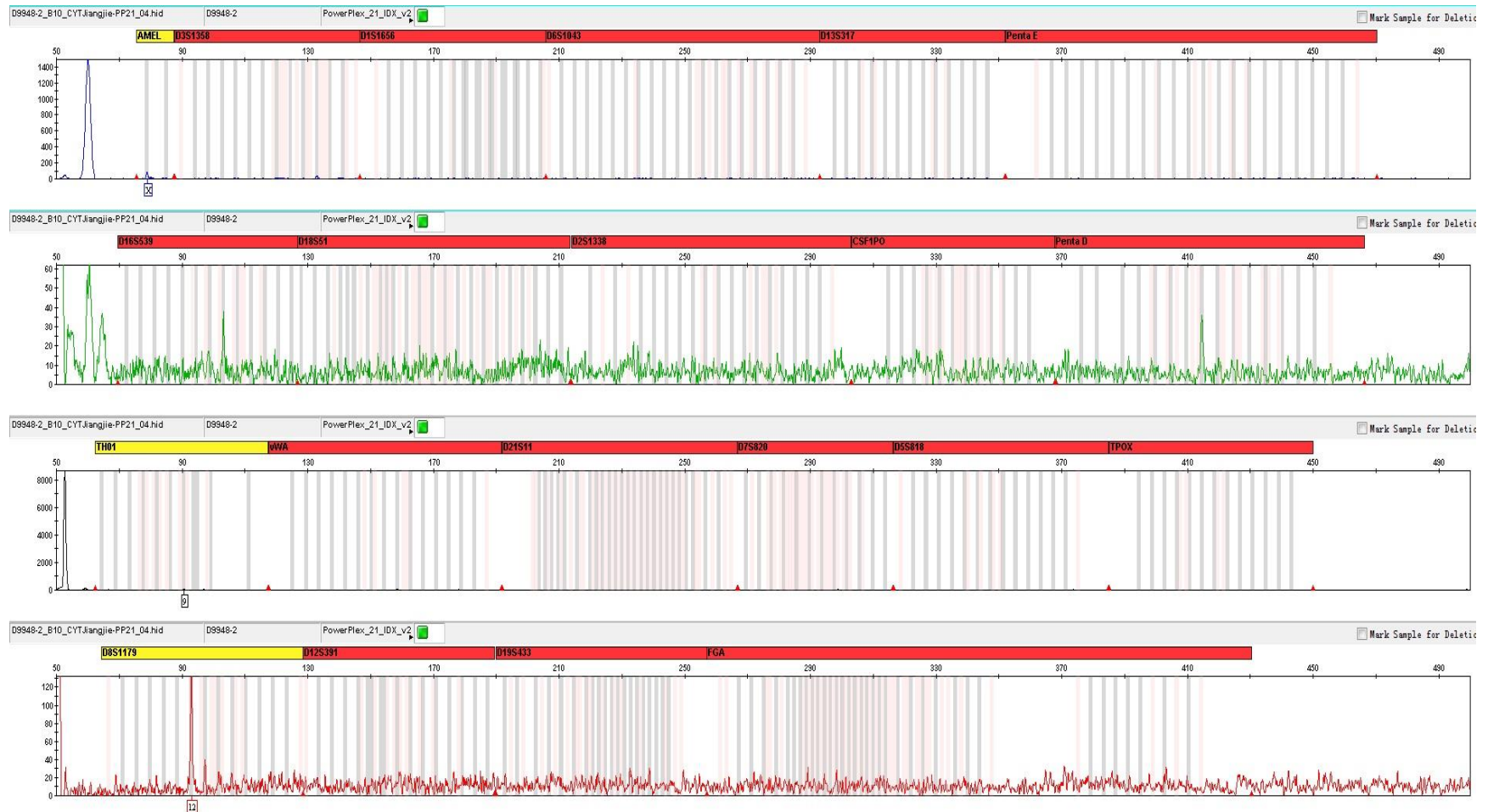
Supplemental Figure 5: The profile of a blood swab that had been kept for 9 years amplified with PP21



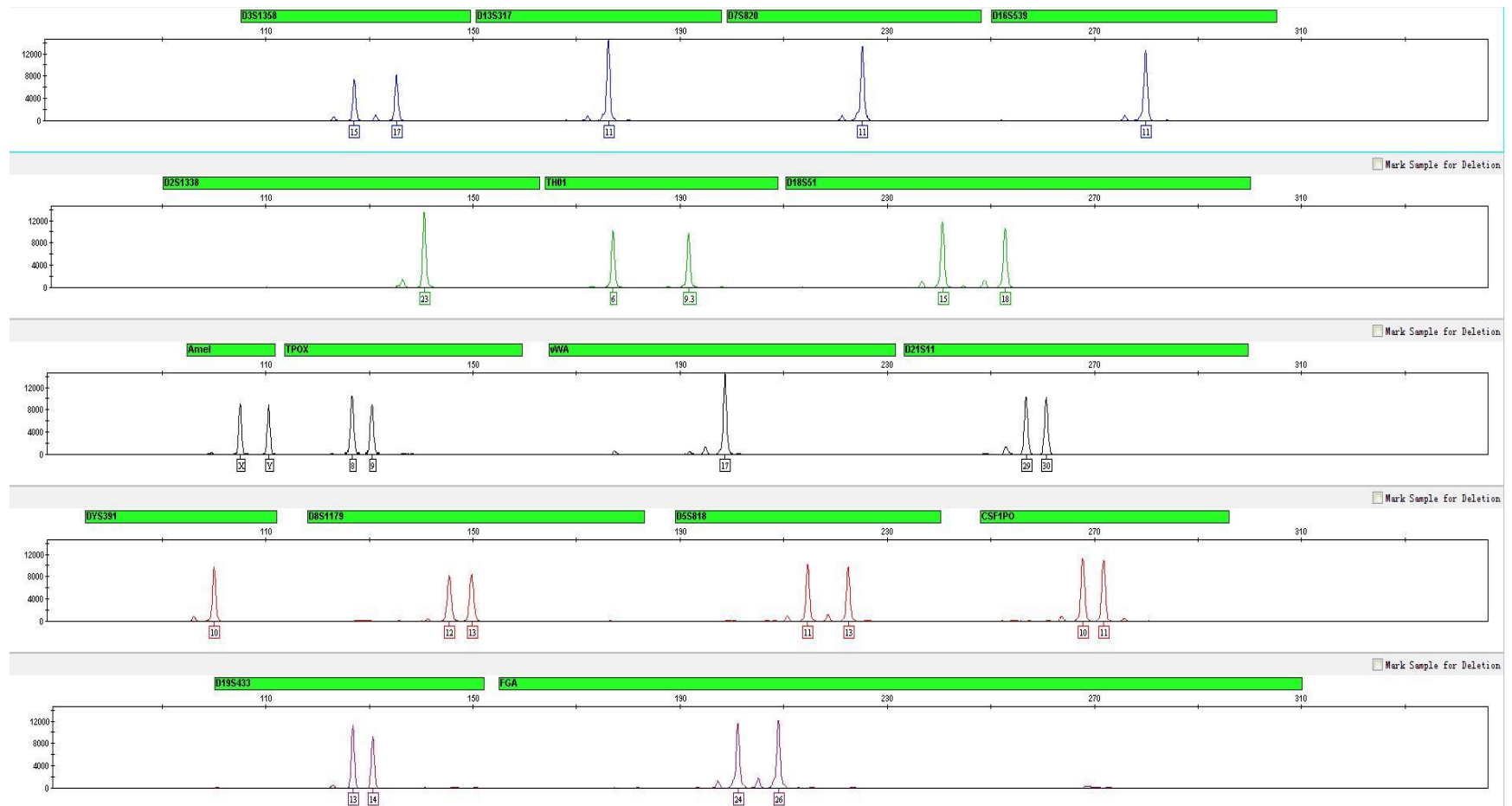
Supplemental Figure 6: The profile of 9948 disposed with 1U DNase I amplified with AGCU Mini



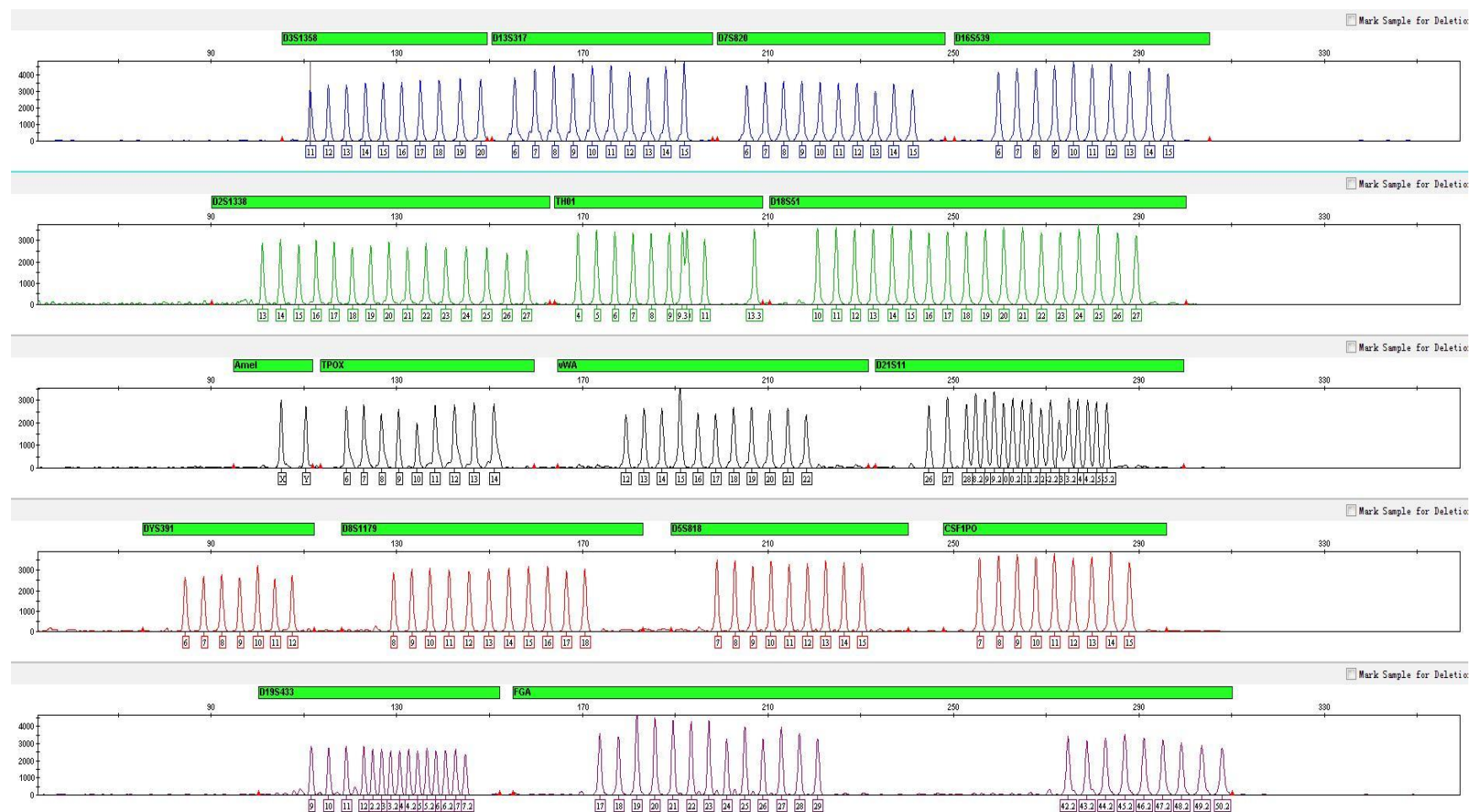
Supplemental Figure 7: The profile of 9948 disposed with 1U DNase I amplified with PP21



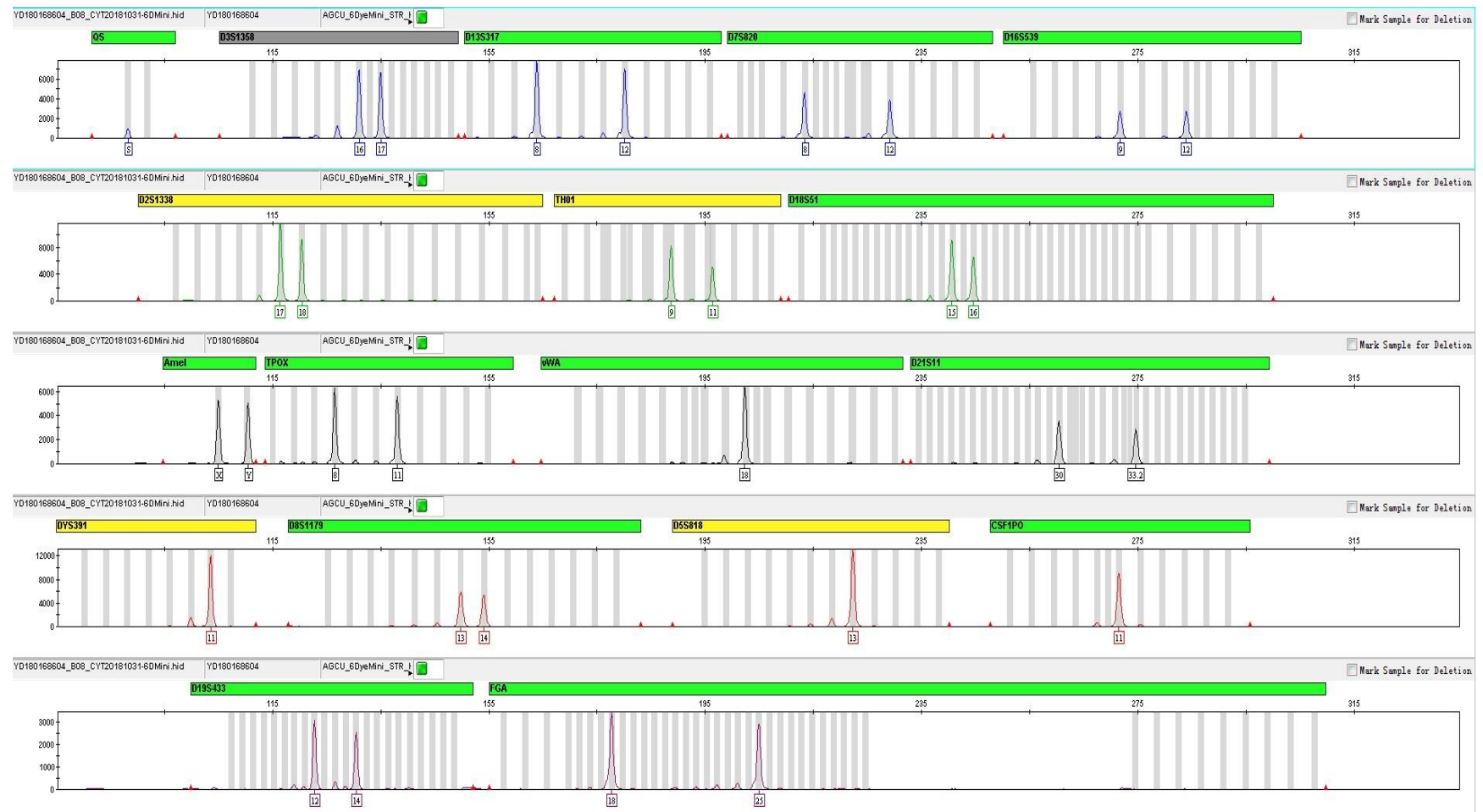
Supplemental Figure 8: The profile of 9948 human genomic DNA



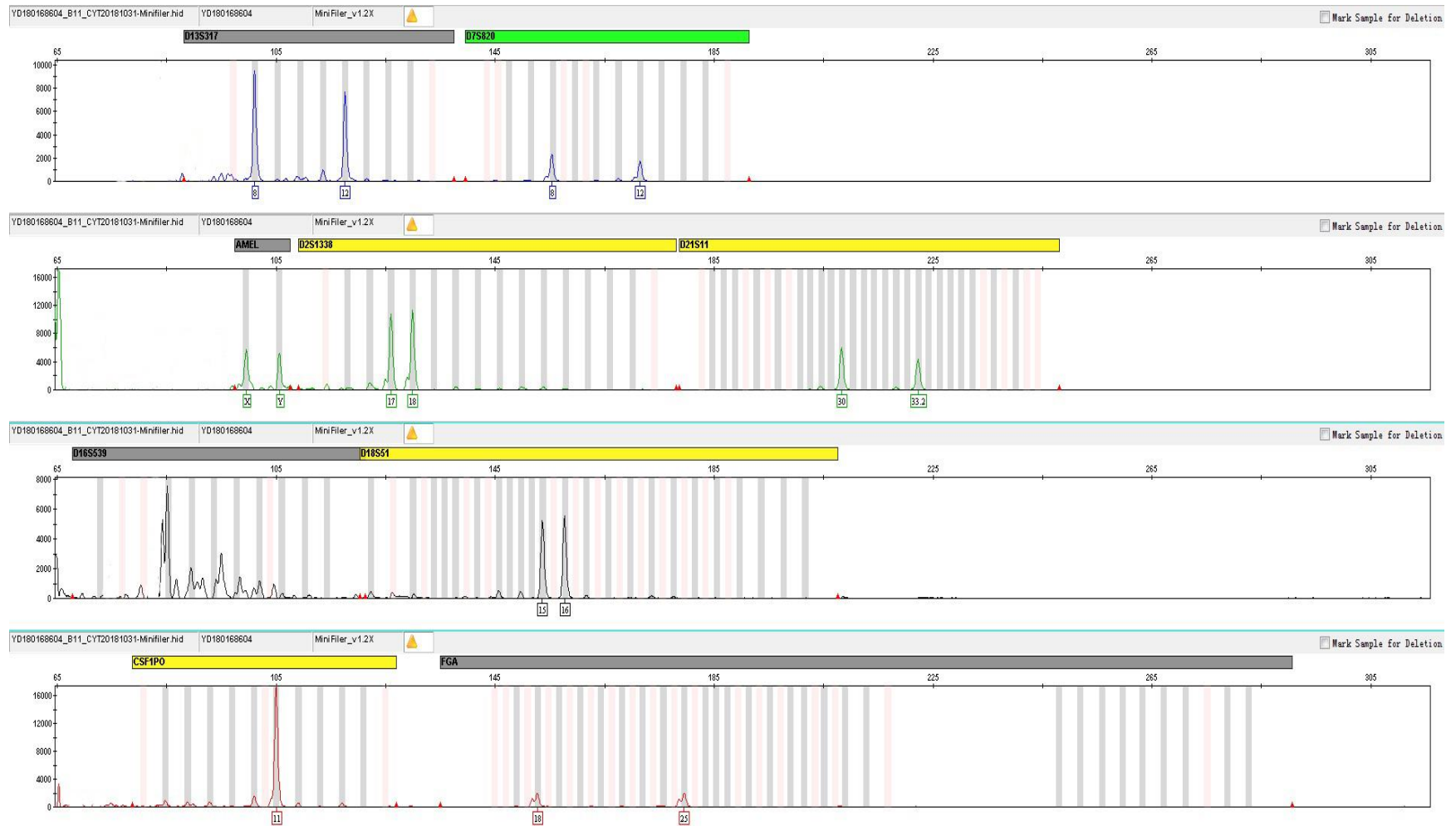
Supplemental Figure 9: The profile of 6 Dye Mini Allelic Ladder



Supplemental Figure 10: The profile of an epithelial fraction swab amplified with AGCU Mini



Supplemental Figure 11: The profile of an epithelial fraction swab amplified with Minifiler



Supplemental Figure 12: The profile of 9948 disposed with 1U DNase I amplified with MiniFiler

