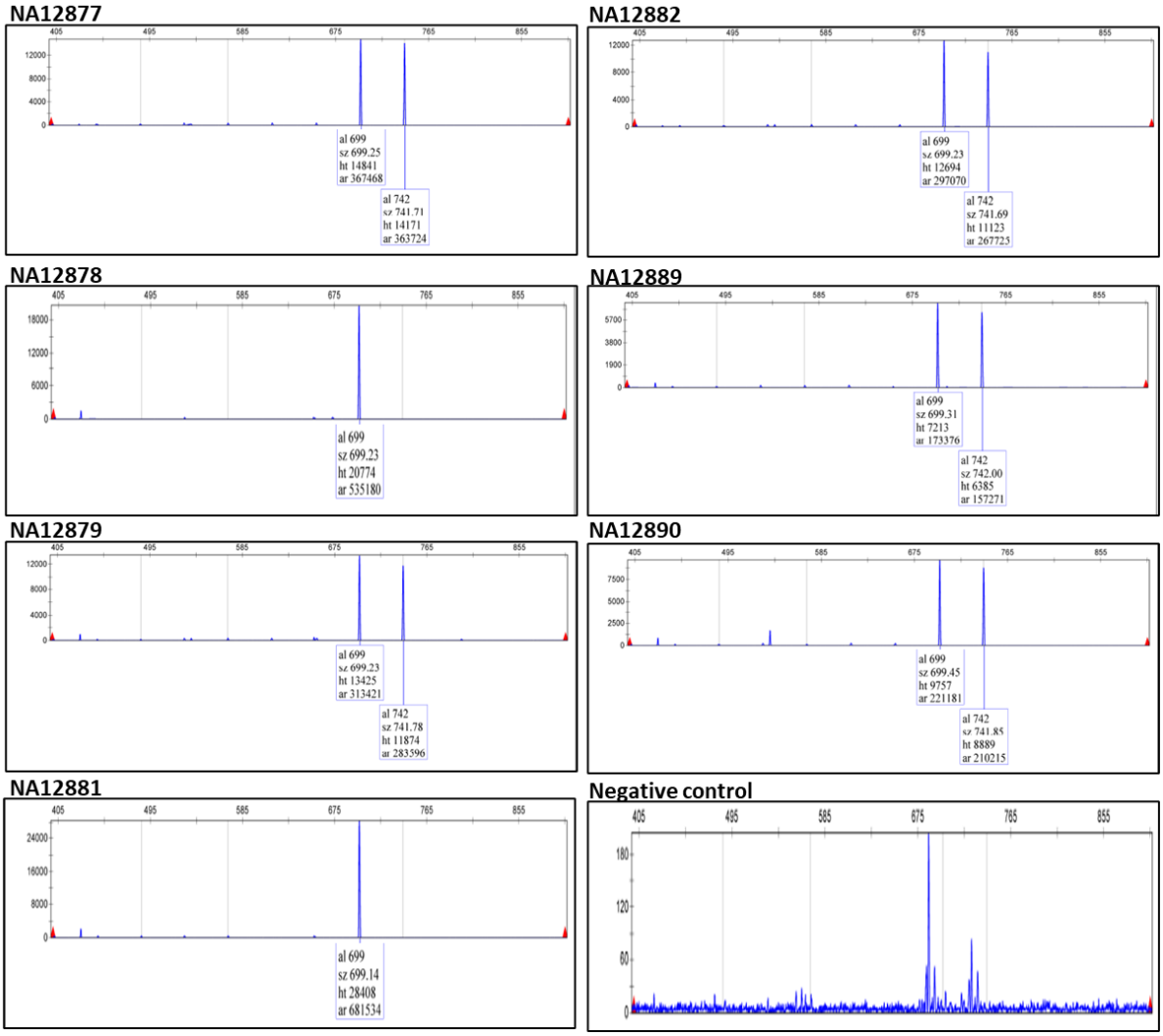
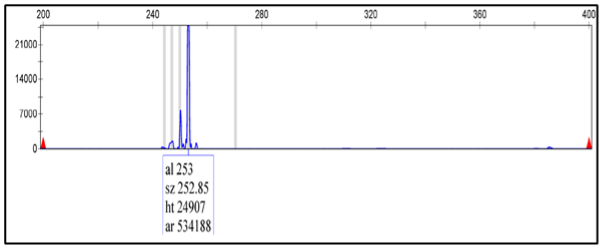
Capillary Electrophoresis Results of PCR sizing analysis

1. **TR_8:** Repeat unit 42 bp, repeat size in hg19 - 502bp, expected PCR product size – 694bp.

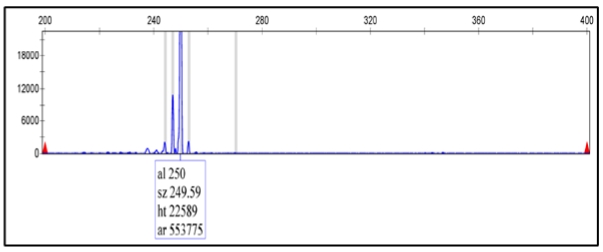


2. **TR_32:** Repeat unit 15 bp, repeat size in hg19 – 594 bp, expected PCR product size – 699 bp

NA12877



NA12882



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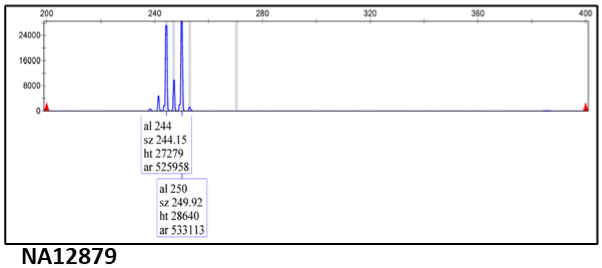

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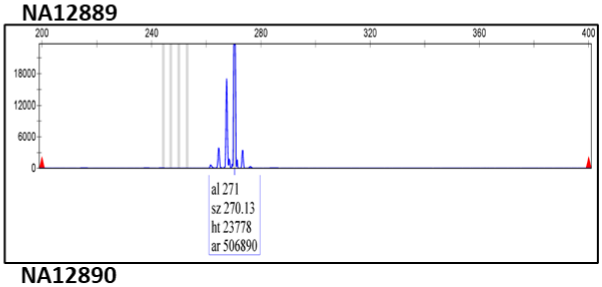

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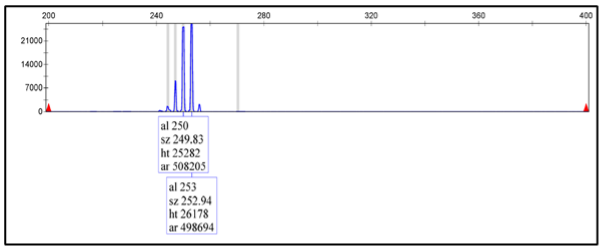

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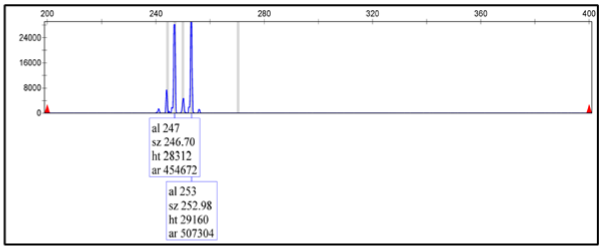

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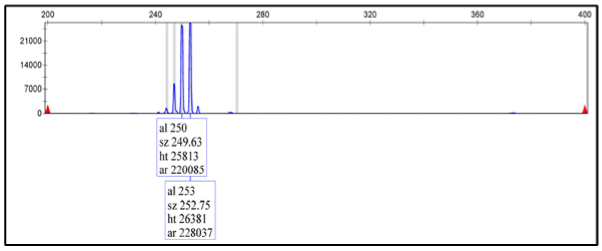
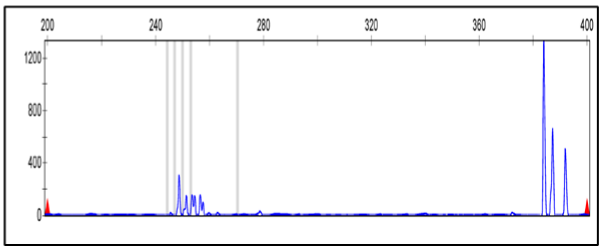
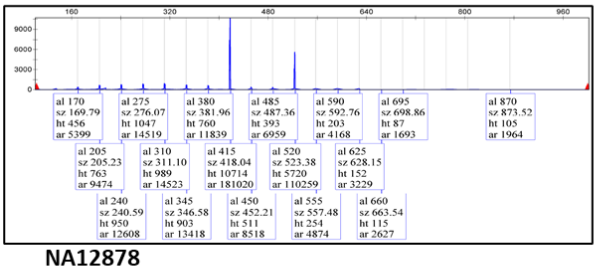


Negative control



3. **TR_57:** Repeat unit 35 bp, repeat size in hg19 – 544 bp, expected PCR product size – 593 bp.

NA12877



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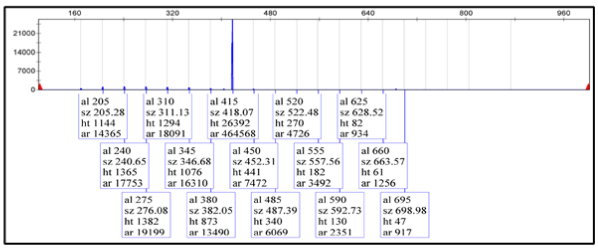

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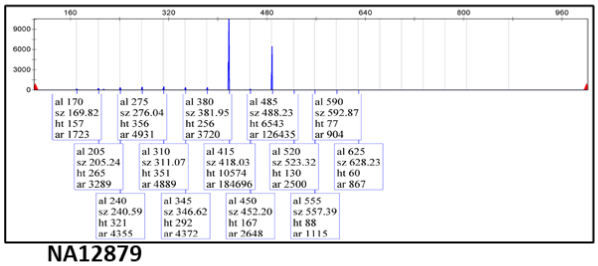

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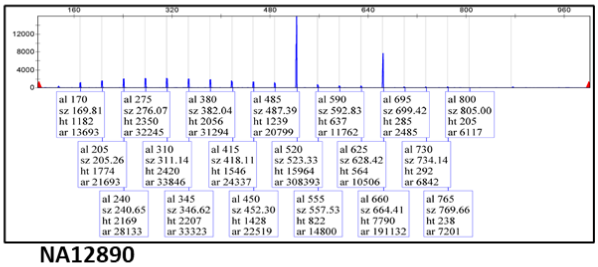

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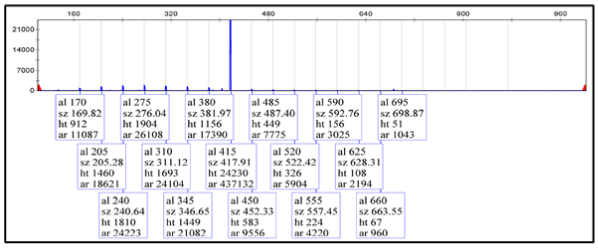

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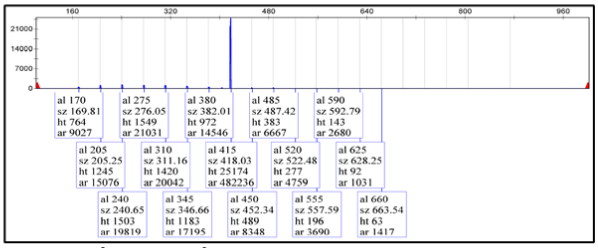

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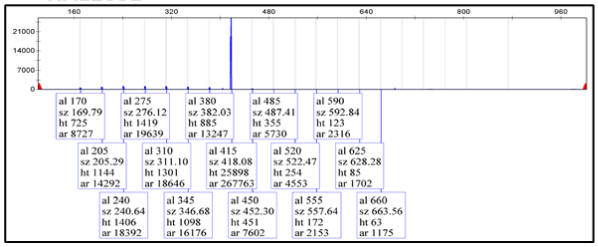
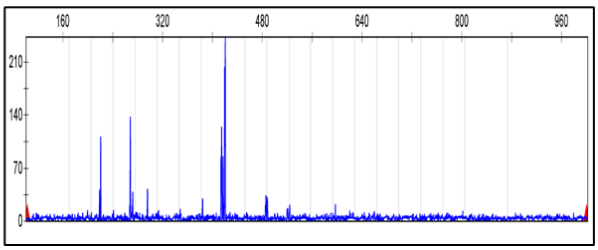
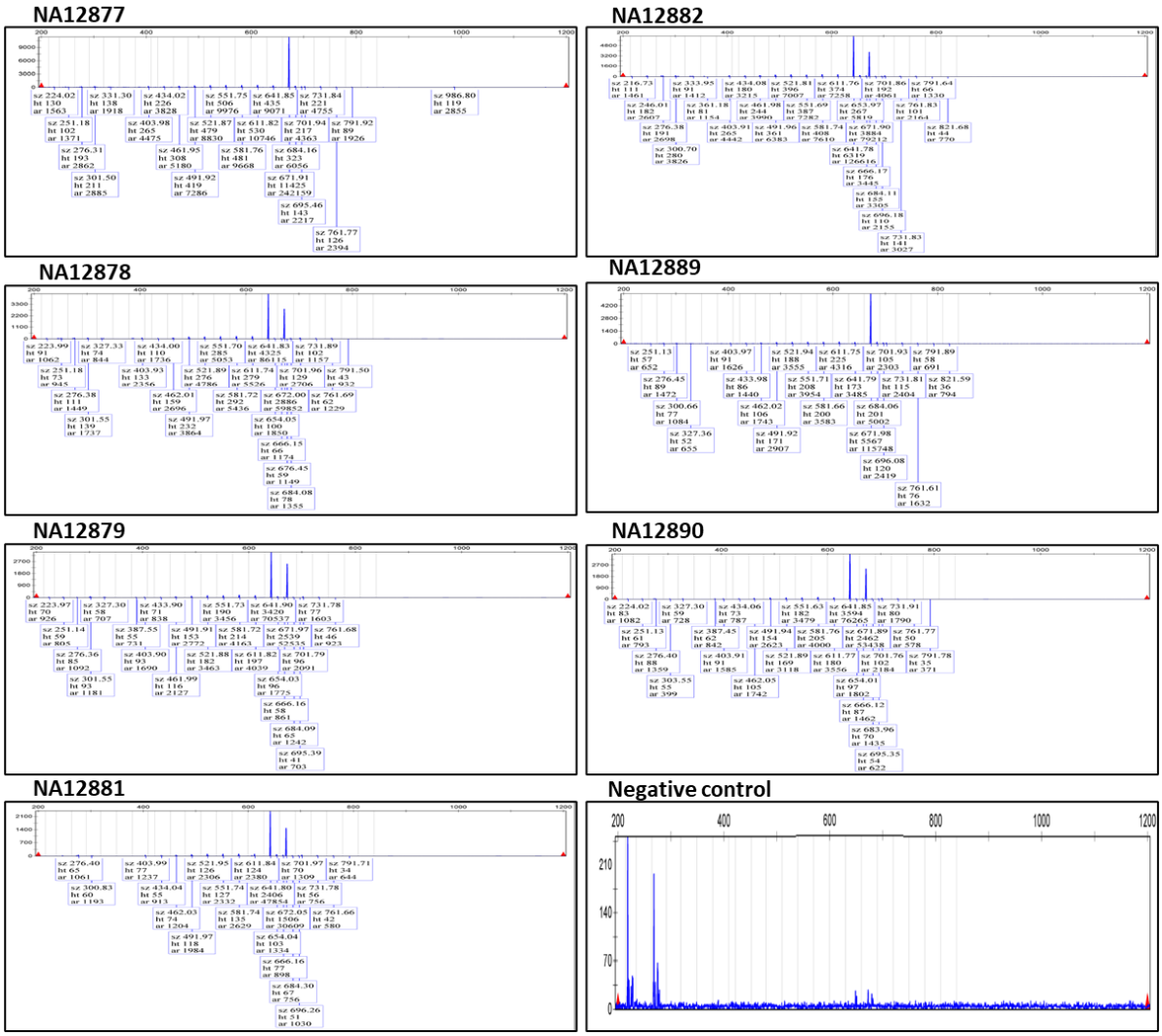


Negative control

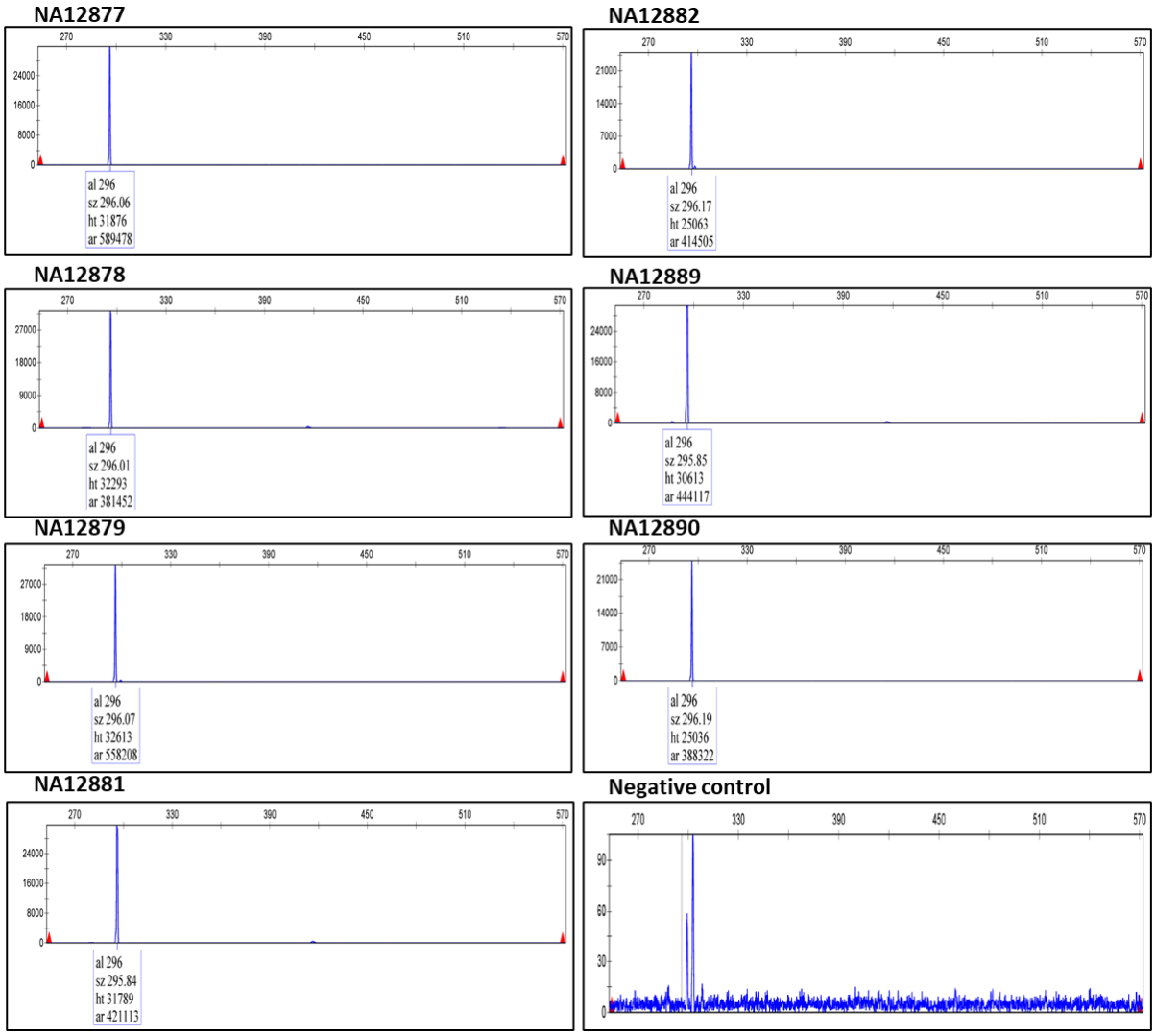


4. **TR_64:** Repeat unit 30 bp, repeat size in hg19 – 524 bp, expected PCR product size – 660 bp

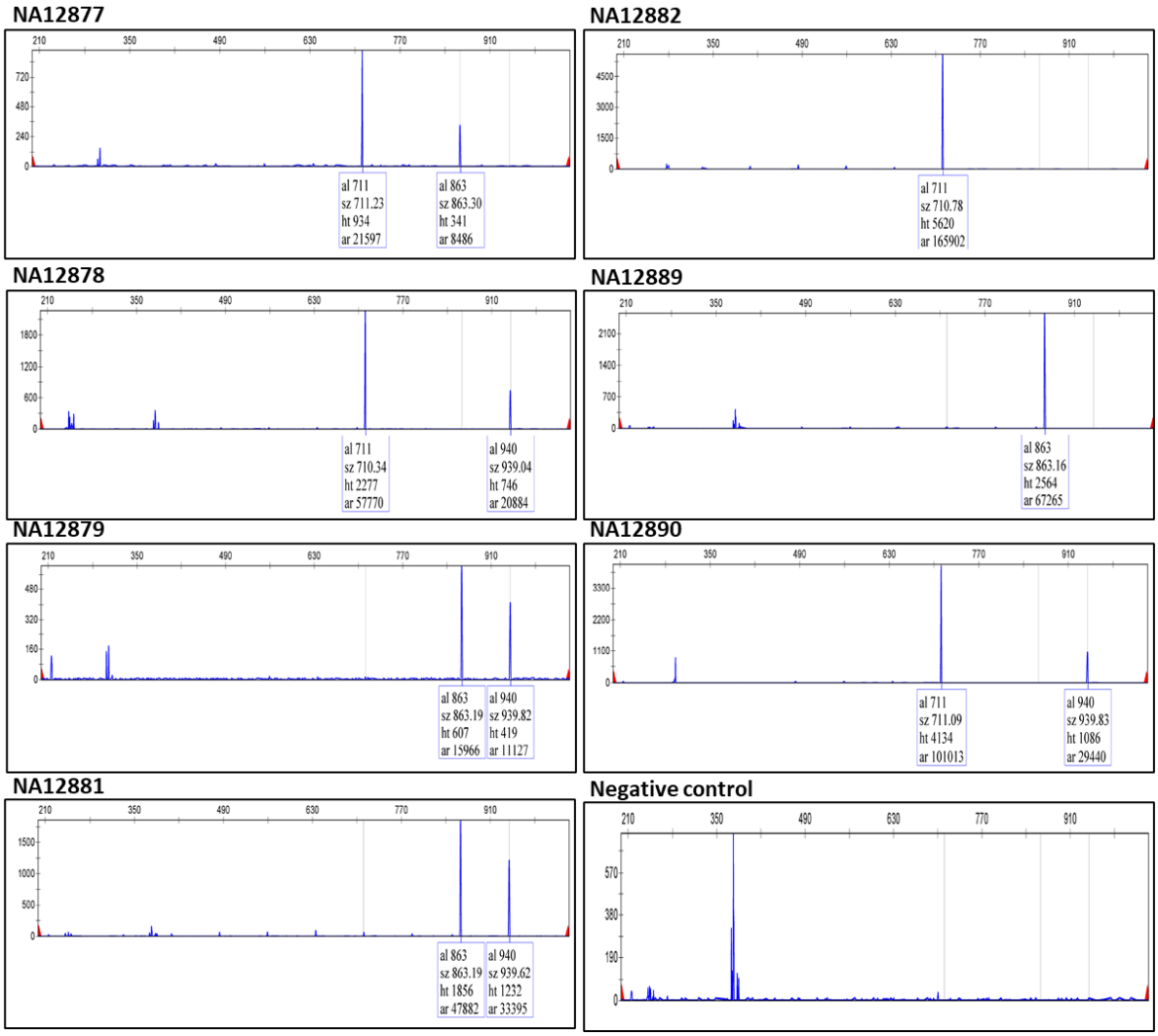


Note: Low-level amplification of repeat sequences, resulting in a smear of different sizes were detected. However, true alleles had higher intensity than the background amplification and high-intensity peaks were used to size the alleles.

5. **TR_86:** Repeat unit 120 bp, repeat size in hg19 – 245 bp, expected PCR product size – 298 bp

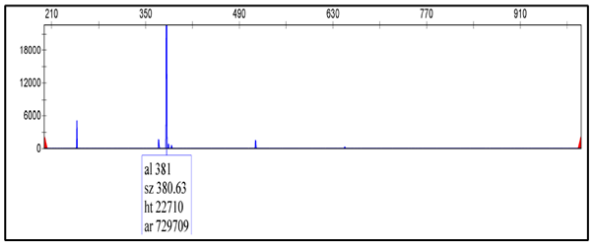


6. **TR_87:** Repeat unit 76 bp, repeat size in hg19 – 685 bp, expected PCR product size – 943 bp

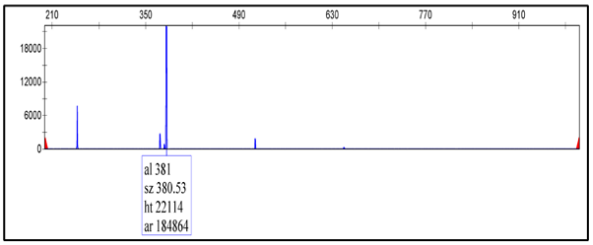


7. **TR_93:** Repeat unit 132 bp, repeat size in hg19 – 267 bp, expected PCR product size – 380 bp

NA12877



NA12882



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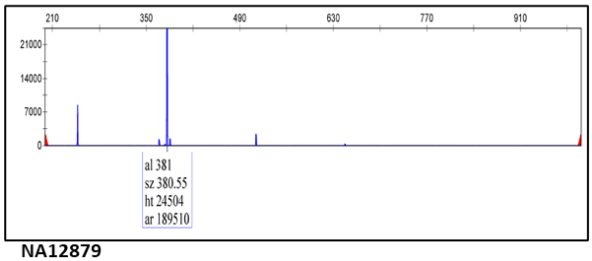

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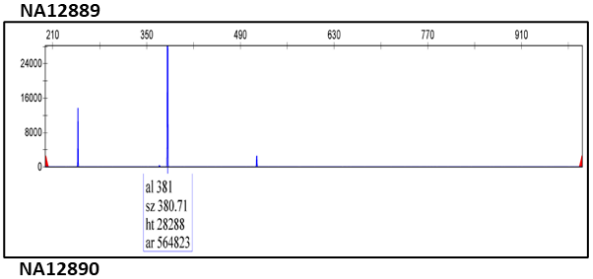

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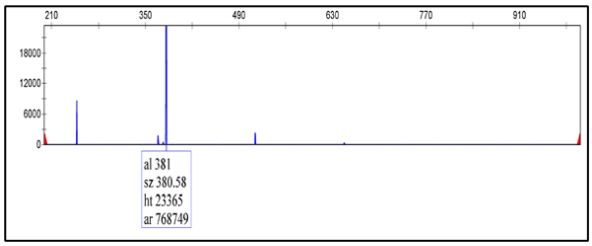

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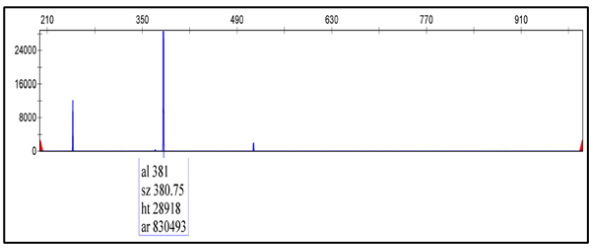

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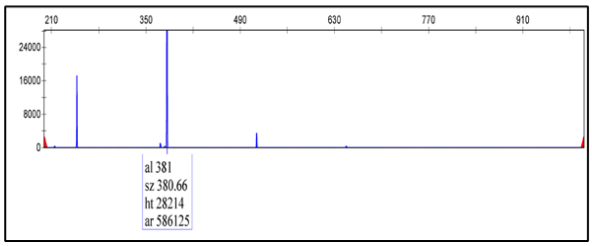
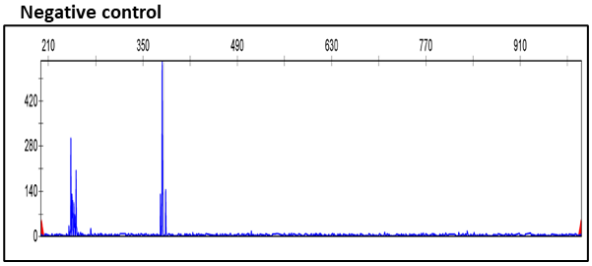
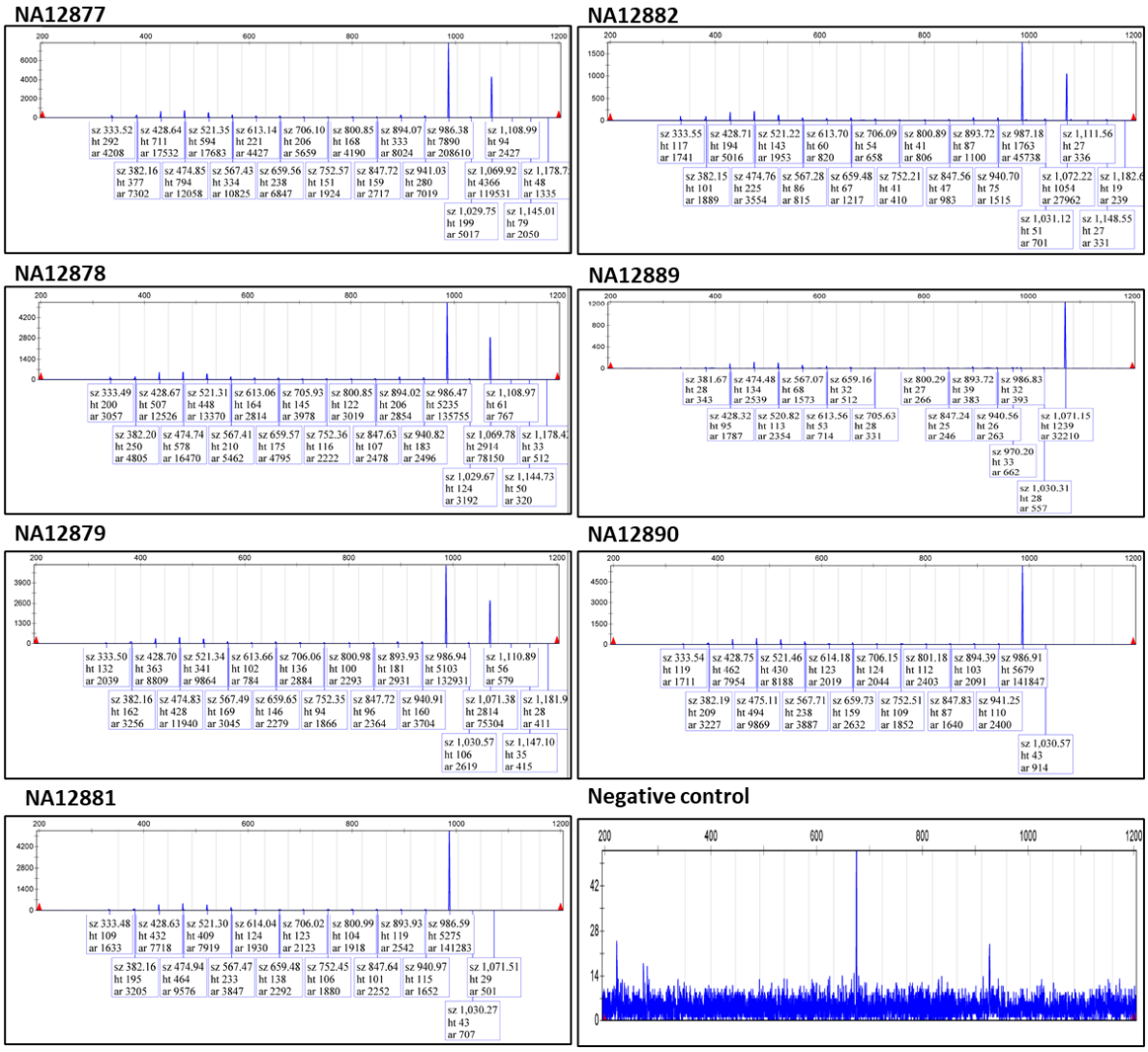


Negative control



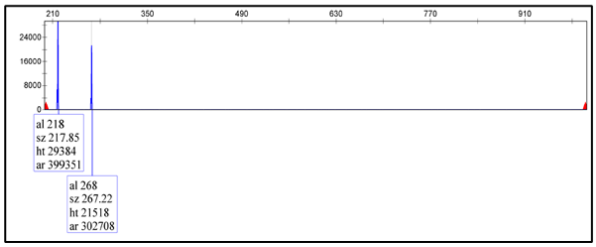
8. **TR_109:** Repeat unit 47 bp, repeat size in hg19 – 724 bp, expected PCR product size –1000 bp



Note: Low-level amplification of repeat sequences, resulting in a smear of different sizes were detected. However, true alleles had higher intensity than the background amplification and high-intensity peaks were used to size the alleles.

9. **TR_112:** Repeat unit 50 bp, repeat size in hg19 – 300 bp, expected PCR product size – 373 bp

NA12877



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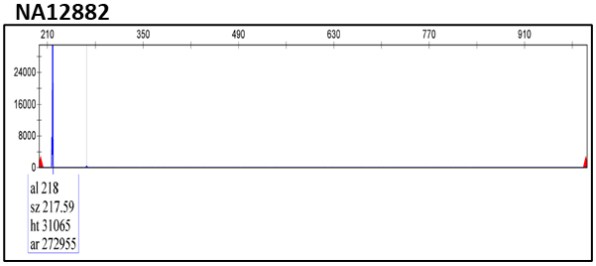

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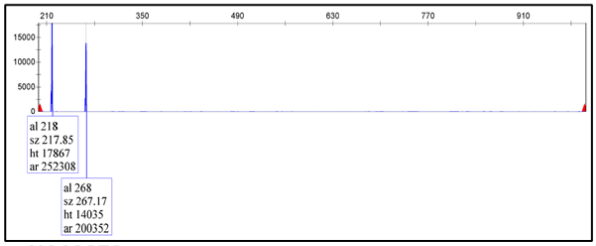

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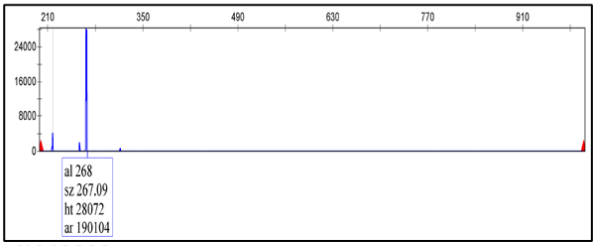

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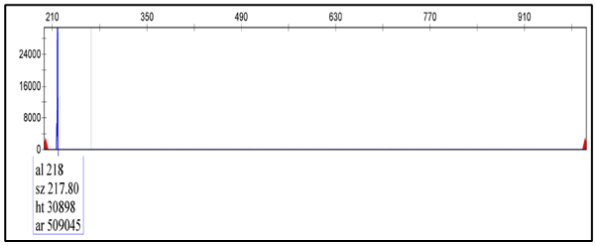

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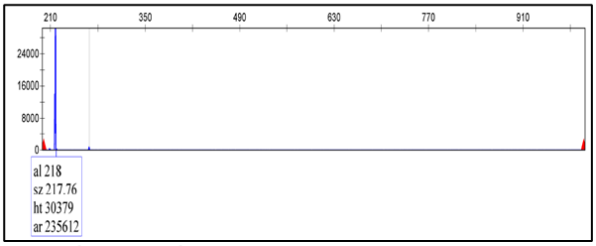

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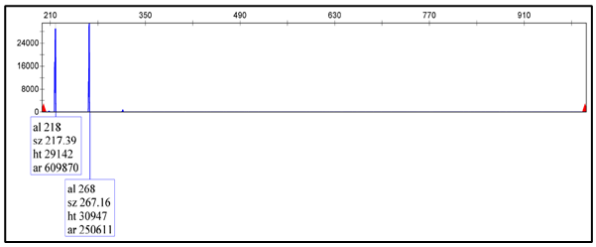
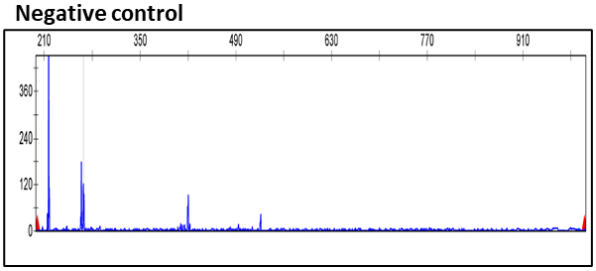
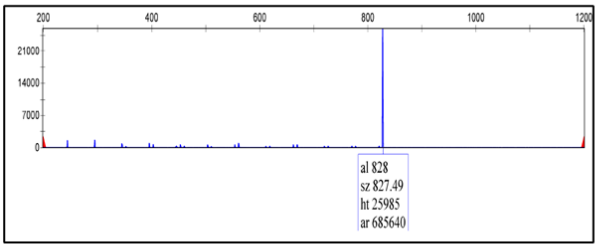


Negative control



10. **TR_120:** Repeat unit 51 bp, repeat size in hg19 – 112 bp, expected PCR product size – 837 bp

NA12877



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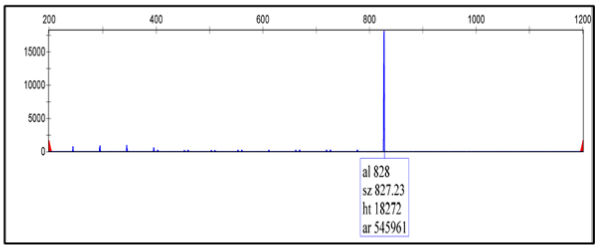

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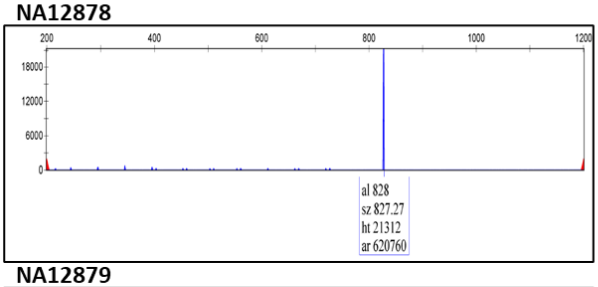

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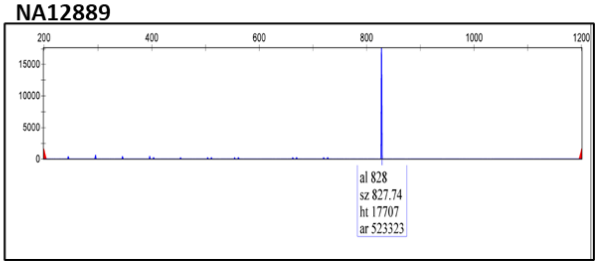

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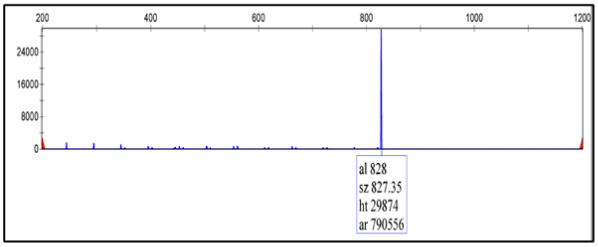

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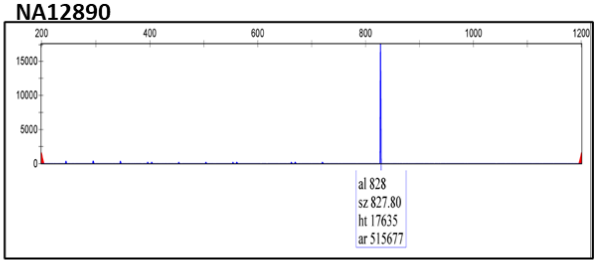

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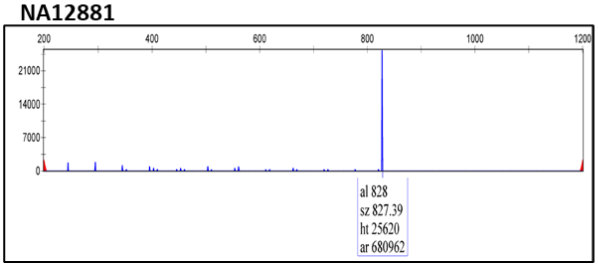

Negative control