

Fourier Spectral Analysis of Coding Sequences

Automated Report

November 20, 2025

Contents

1 Group 1: Single Peak at 0.33	2
2 Group 2: Single Peak Elsewhere	2
3 Group 3: Multiple Peaks	2
3.1 SCFR_NC_060926.1_201109_207667	2
3.1.1 Protein: frame2	2
3.2 SCFR_NC_060926.1_200980_207685	3
3.2.1 Protein: frame-1	3
3.3 SCFR_NC_060926.1_242515871_242521001	4
3.3.1 Protein: frame-3	4
3.4 SCFR_NC_060926.1_87368150_87373736	5
3.4.1 Protein: frame-3	5
3.5 SCFR_NC_060926.1_242515876_242520997	6
3.5.1 Protein: frame-1	6
3.6 SCFR_NC_060926.1_242515684_242521150	7
3.6.1 Protein: frame2	7
3.7 SCFR_NC_060926.1_202469_207686	8
3.7.1 Protein: frame3	8
3.8 SCFR_NC_060926.1_242515959_242521185	9
3.8.1 Protein: frame-2	9
3.9 SCFR_NC_060926.1_201123_207753	10
3.9.1 Protein: frame-2	10
3.10 SCFR_NC_060926.1_201161_207728	11
3.10.1 Protein: frame-3	11
3.11 SCFR_NC_060926.1_201153_207540	12
3.11.1 Protein: frame1	12

1 Group 1: Single Peak at 0.33

2 Group 2: Single Peak Elsewhere

3 Group 3: Multiple Peaks

3.1 SCFR_NC_060926.1_201109_207667

3.1.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 6558 bp

Protein Description:

Stop-codon-free region (201109-207667)

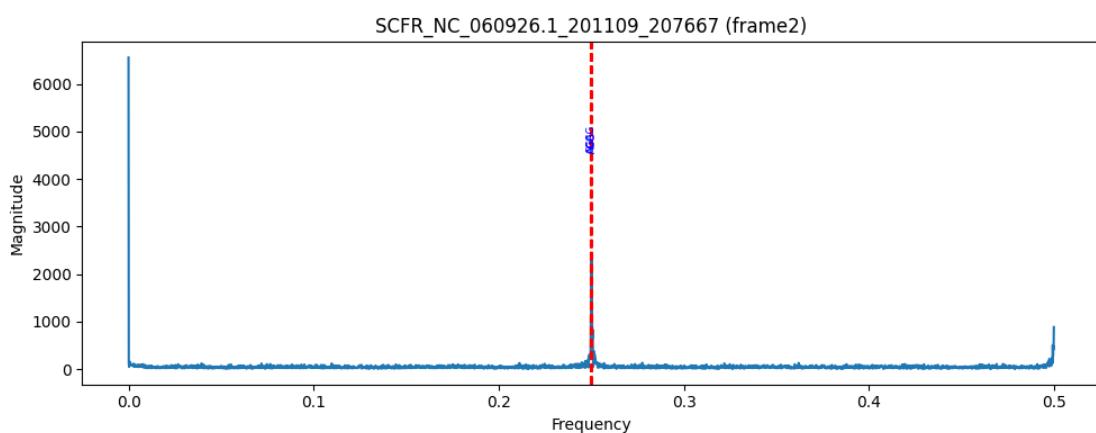


Figure 1: FFT Spectrum for frame2

Frequency	Motifs
0.25	AGG (1617), GGA (1615), GAG (1008), GGG (1001), AAG (616)
0.25	AGG (1617), GGA (1615), GAG (1008), GGG (1001), AAG (616)
0.25	GGAG (1006), GAGG (1006), AGGG (1001), GGGA (1001), AGGA (613)

3.2 SCFR_NC_060926.1_200980_207685

3.2.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 6705 bp

Protein Description:

Stop-codon-free region (200980-207685)

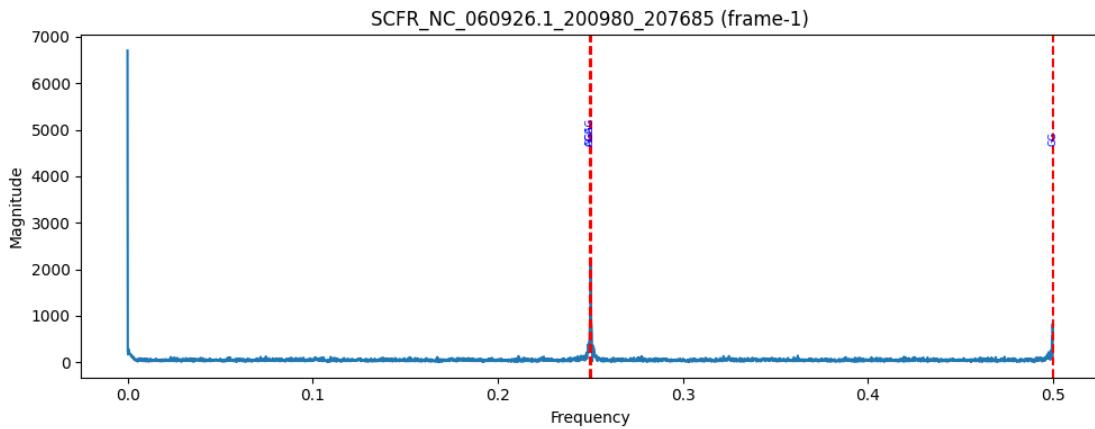


Figure 2: FFT Spectrum for frame-1

Frequency	Motifs
0.25	AGG (1621), GGA (1621), GAG (1012), GGG (1001), AAG (624)
0.25	GGAG (1007), GAGG (1006), AGGG (1001), GGGA (1001), AGGA (617)
0.5	GG (2625), AG (1643), GA (1643), AA (659), AT (20)

3.3 SCFR_NC_060926.1_242515871_242521001

3.3.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 5130 bp

Protein Description:

Stop-codon-free region (242515871-242521001)

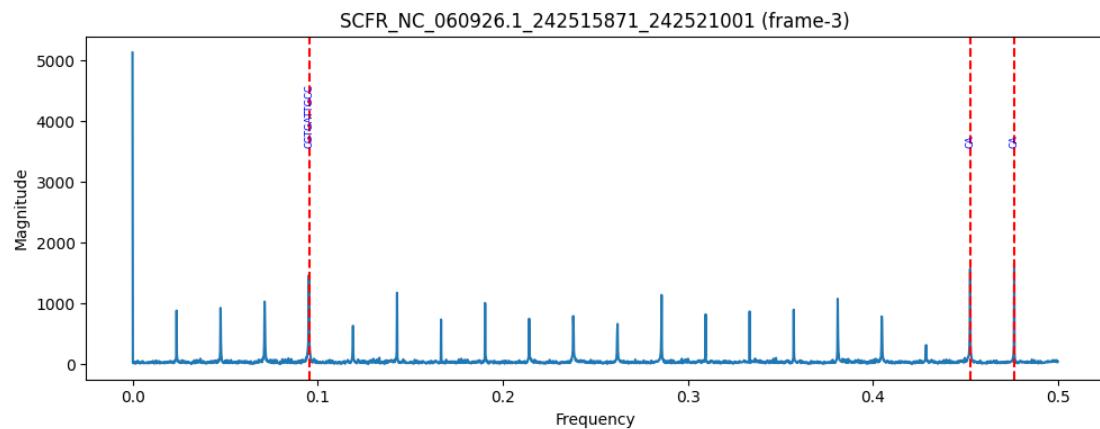


Figure 3: FFT Spectrum for frame-3

Frequency	Motifs
0.476	CA (656), TG (642), AC (590), GG (587), GT (541)
0.452	CA (656), TG (642), AC (590), GG (587), GT (541)
0.095	CGTGATTGCC (120), GGGGGAACAC (120), GGGAACACA (120), GTGATTGCCA (119), GGAACAC

3.4 SCFR_NC_060926.1_87368150_87373736

3.4.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 5586 bp

Protein Description:

Stop-codon-free region (87368150-87373736)

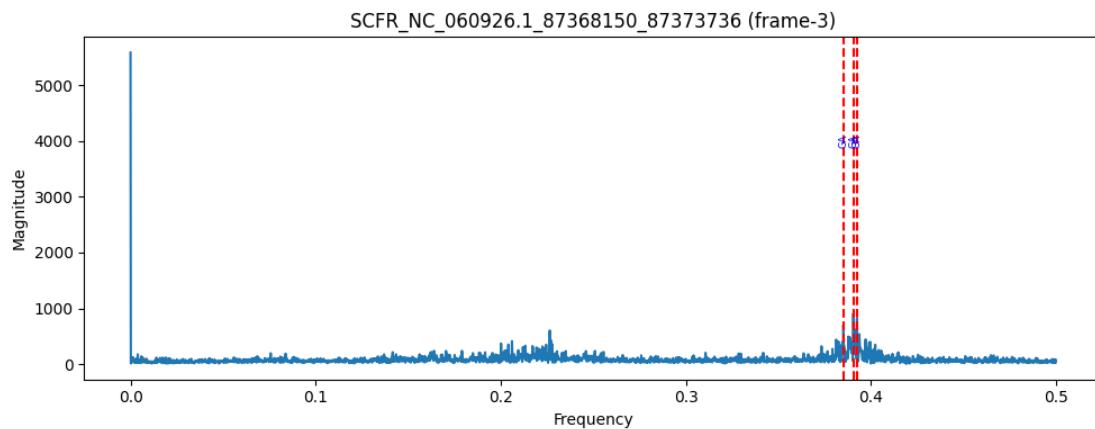


Figure 4: FFT Spectrum for frame-3

Frequency	Motifs
0.39	GA (1427), AA (1139), AT (1120), TG (1045), AG (428)
0.392	GA (1427), AA (1139), AT (1120), TG (1045), AG (428)
0.385	GA (1427), AA (1139), AT (1120), TG (1045), AG (428)

3.5 SCFR_NC_060926.1_242515876_242520997

3.5.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 5121 bp

Protein Description:

Stop-codon-free region (242515876-242520997)

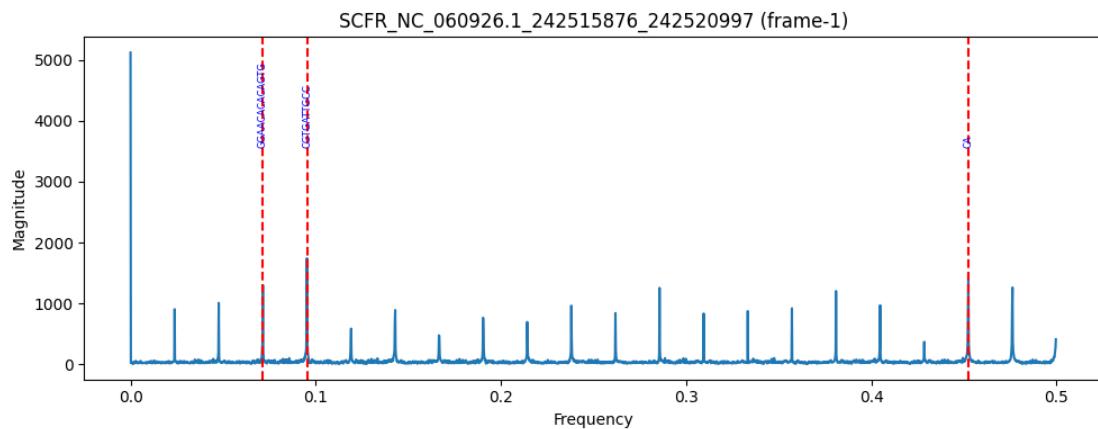


Figure 5: FFT Spectrum for frame-1

Frequency	Motifs
0.095	CGTGATTGCC (120), GGGGAAACAC (120), GGGGAACACA (120), GTGATTGCCA (119),
0.452	CA (655), TG (642), AC (589), GG (587), GT (540)
0.071	GGAACACACAGTG (117), GAACACACAGTGT (117), AACACACAGTGTG (117), GGGGAAACACACA

3.6 SCFR_NC_060926.1_242515684_242521150

3.6.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 5466 bp

Protein Description:

Stop-codon-free region (242515684-242521150)

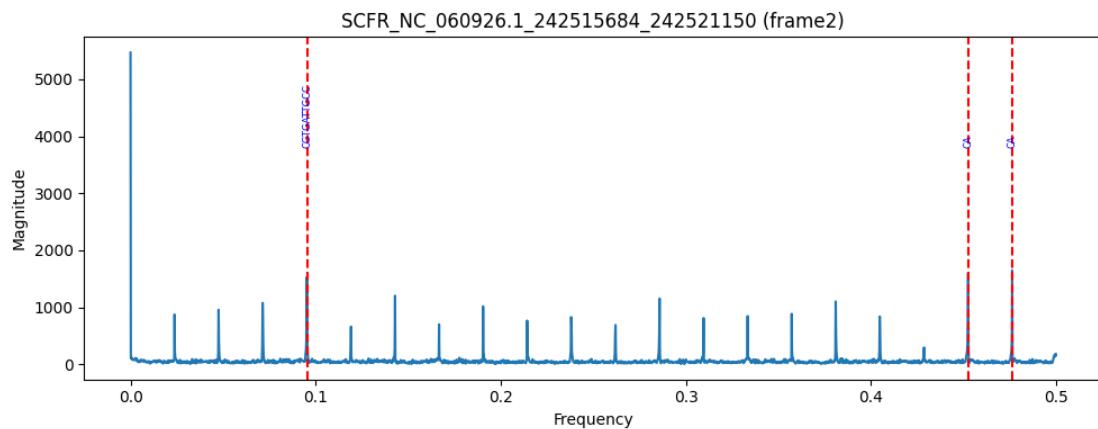


Figure 6: FFT Spectrum for frame2

Frequency	Motifs
0.476	CA (687), TG (665), GG (613), AC (611), GT (561)
0.452	CA (687), TG (665), GG (613), AC (611), GT (561)
0.095	CGTGATTGCC (120), GGGGGAACAC (120), GGGAACACA (120), GTGATTGCCA (119), GGAACAC

3.7 SCFR_NC_060926.1_202469_207686

3.7.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 5217 bp

Protein Description:

Stop-codon-free region (202469-207686)

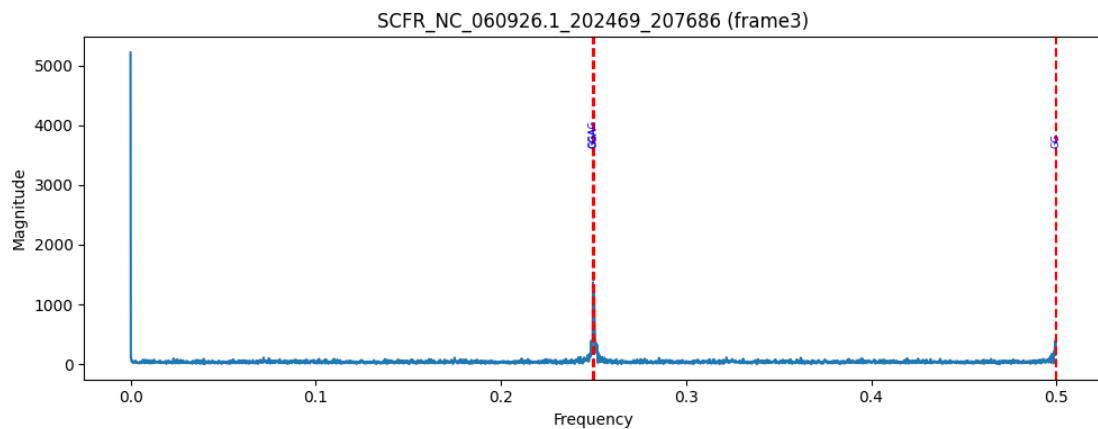


Figure 7: FFT Spectrum for frame3

Frequency	Motifs
0.25	GGAG (810), GAGG (810), AGGG (805), GGGG (805), AGGA (488)
0.25	GGA (1295), AGG (1295), GAG (812), GGG (805), GAA (487)
0.5	GG (2102), AG (1301), GA (1300), AA (491), GC (4)

3.8 SCFR_NC_060926.1_242515959_242521185

3.8.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 5226 bp

Protein Description:

Stop-codon-free region (242515959-242521185)

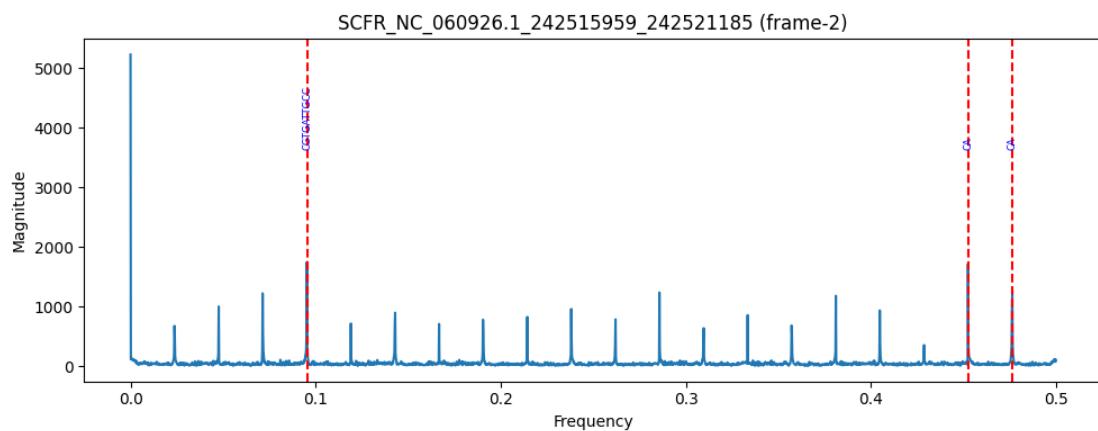


Figure 8: FFT Spectrum for frame-2

Frequency	Motifs
0.095	CGTGATTGCC (119), GTGATTGCCA (119), GGGGAAACAC (119), GGGGAACACA (119), GGAAACA
0.452	CA (662), TG (641), AC (586), GG (583), GT (542)
0.476	CA (662), TG (641), AC (586), GG (583), GT (542)

3.9 SCFR_NC_060926.1_201123_207753

3.9.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 6630 bp

Protein Description:

Stop-codon-free region (201123-207753)

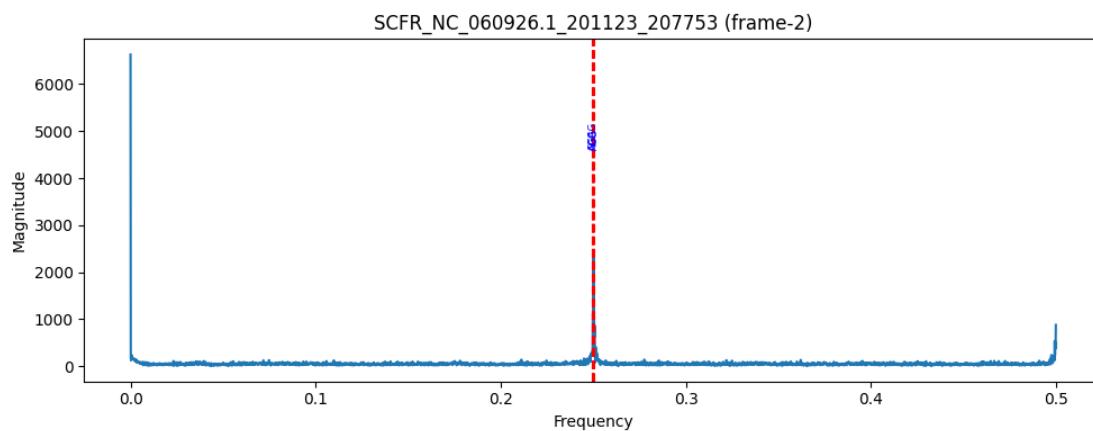


Figure 9: FFT Spectrum for frame-2

Frequency	Motifs
0.25	AGG (1618), GGA (1616), GAG (1008), GGG (1001), AAG (619)
0.25	AGG (1618), GGA (1616), GAG (1008), GGG (1001), AAG (619)
0.25	GGAG (1006), GAGG (1006), AGGG (1001), GAAA (1001), AGGA (614)

3.10 SCFR_NC_060926.1_201161_207728

3.10.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 6567 bp

Protein Description:

Stop-codon-free region (201161-207728)

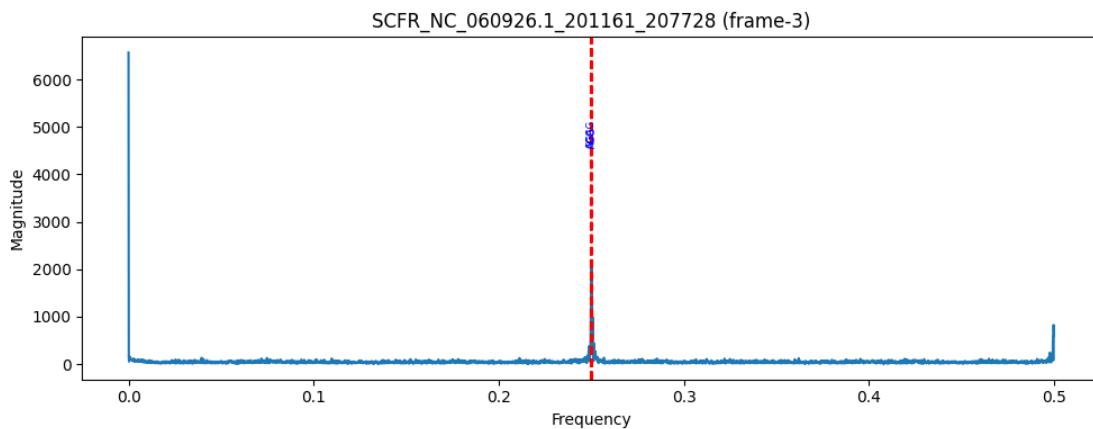


Figure 10: FFT Spectrum for frame-3

Frequency	Motifs
0.25	AGG (1617), GGA (1615), GAG (1008), GGG (1001), AAG (617)
0.25	AGG (1617), GGA (1615), GAG (1008), GGG (1001), AAG (617)
0.25	GGAG (1006), GAGG (1006), AGGG (1001), GAAA (1001), AGGA (613)

3.11 SCFR_NC_060926.1_201153_207540

3.11.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060926.1

Sequence Length: 6387 bp

Protein Description:

Stop-codon-free region (201153-207540)

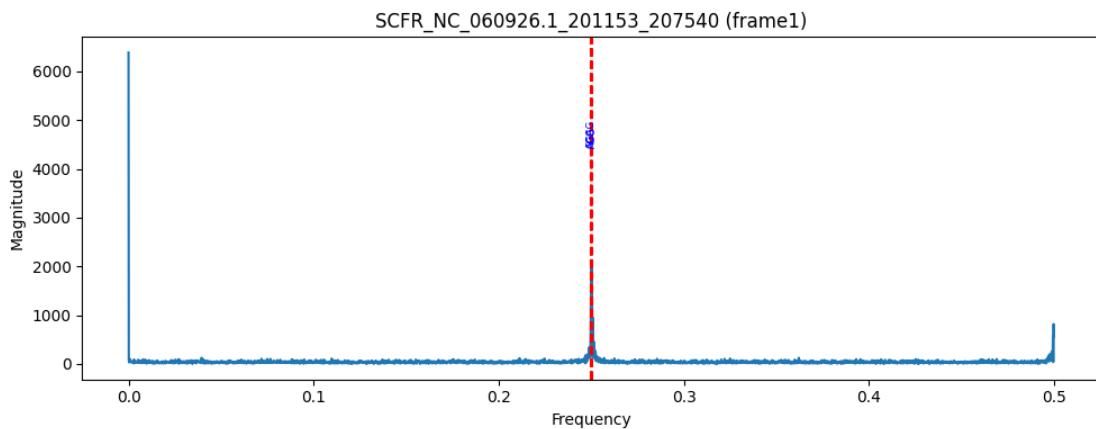


Figure 11: FFT Spectrum for frame1

Frequency	Motifs
0.25	AGG (1587), GGA (1585), GAG (991), GGG (983), AAG (600)
0.25	AGG (1587), GGA (1585), GAG (991), GGG (983), AAG (600)
0.25	GGAG (989), GAGG (989), AGGG (983), GGGA (983), AGGA (601)