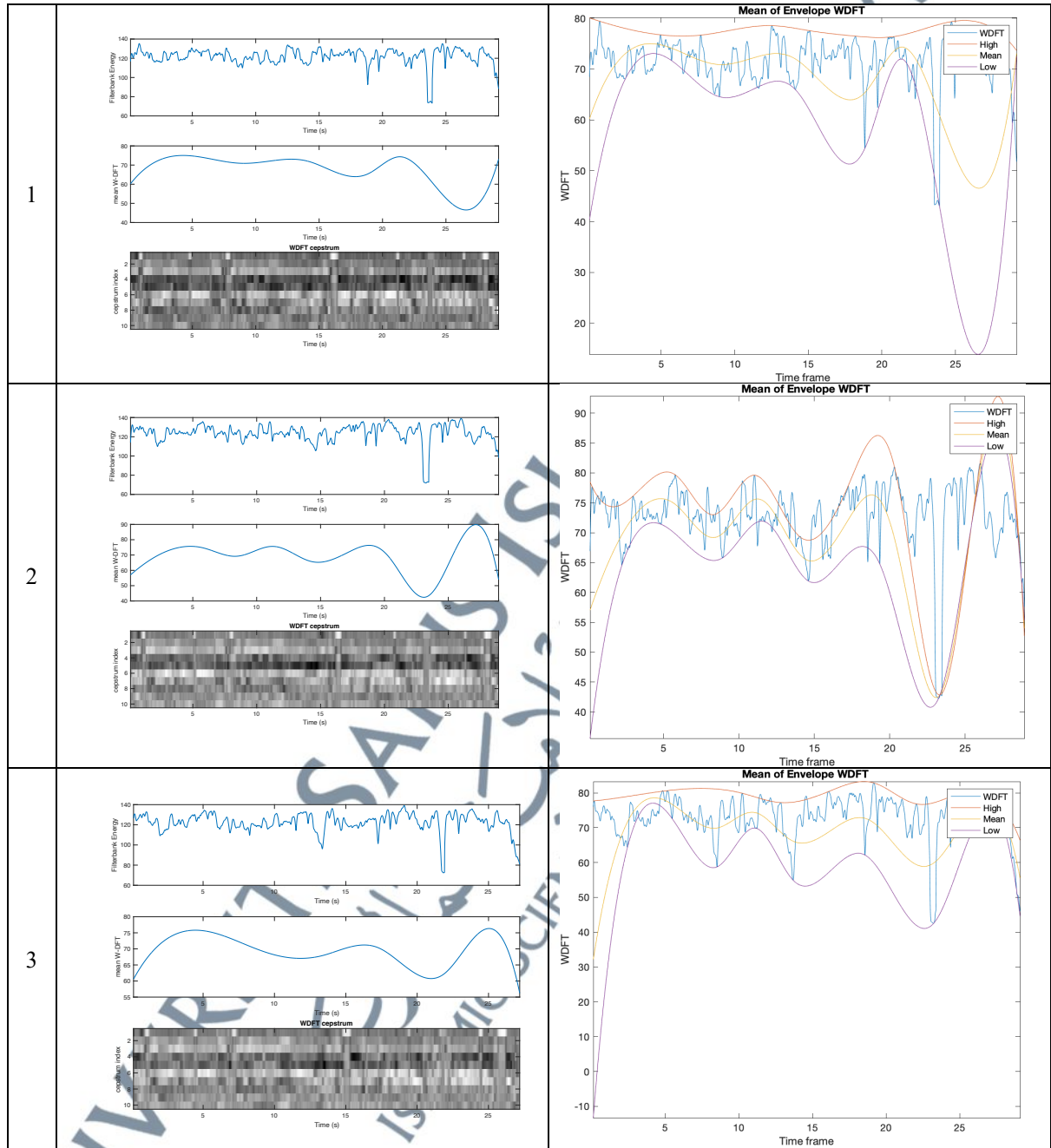


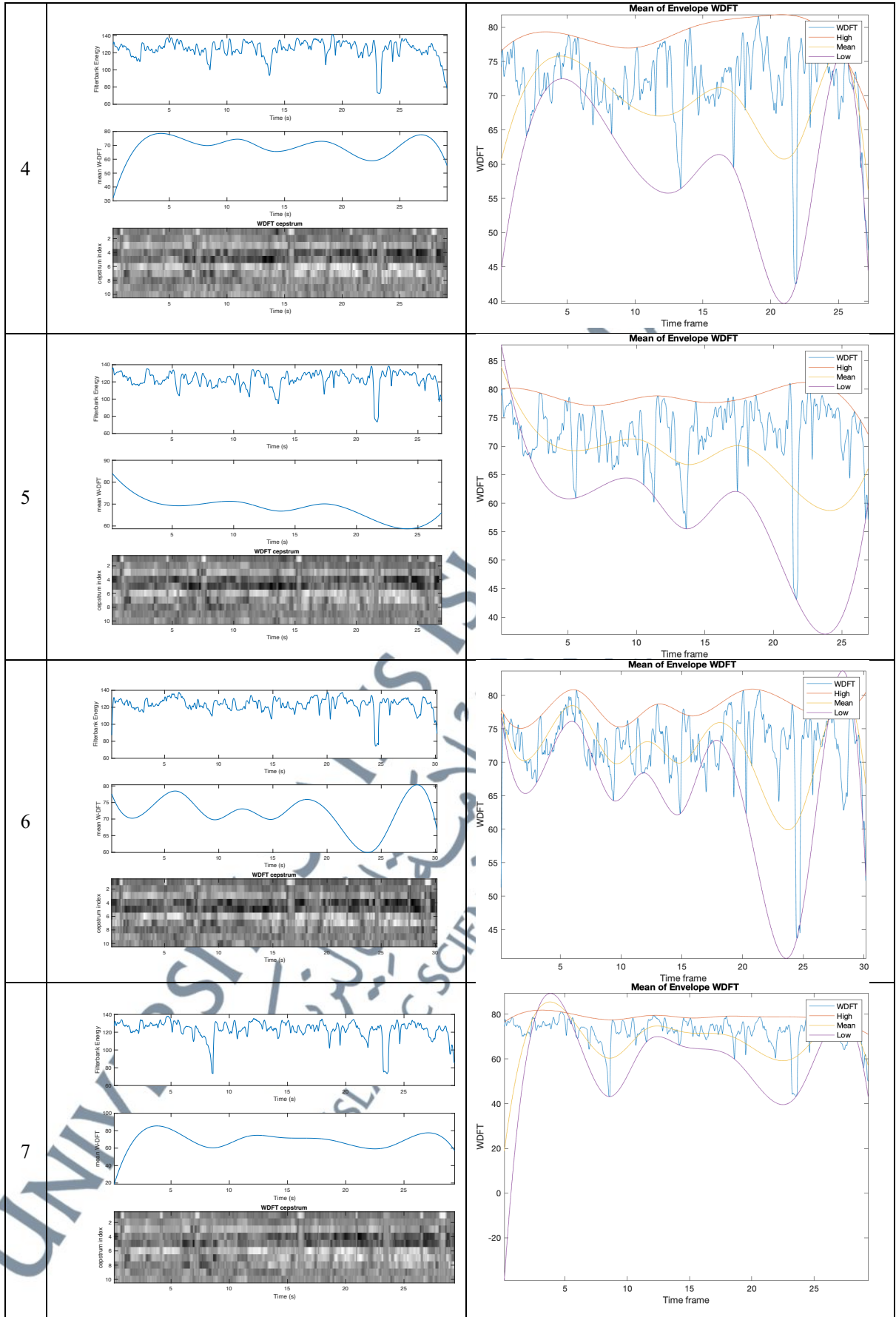
APPENDIX A

Result of Log Energy, Mean envelope and 3D Spectrum.

Surah : Al-Asr; $T_s = 25\text{ms}$

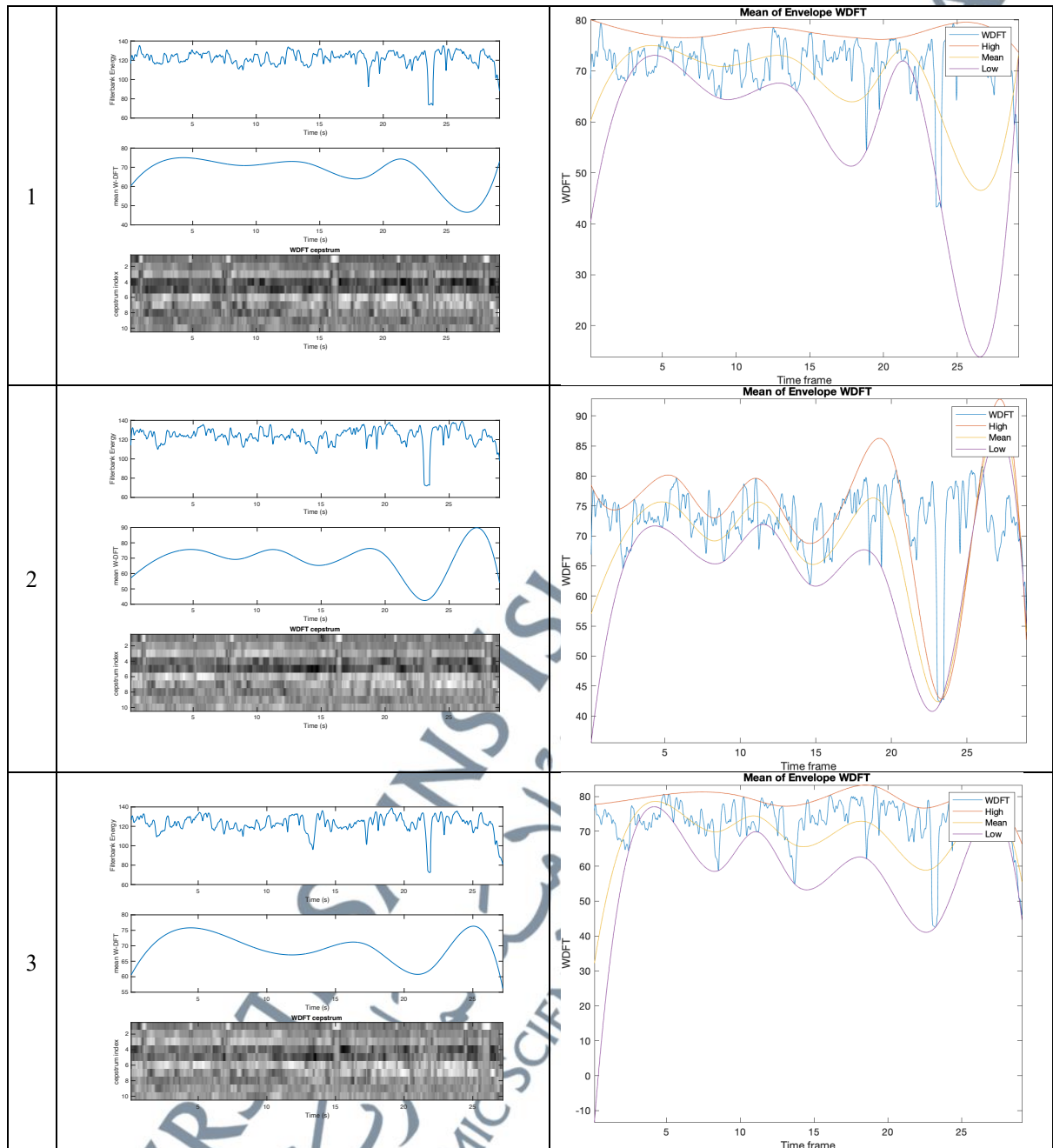
Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba

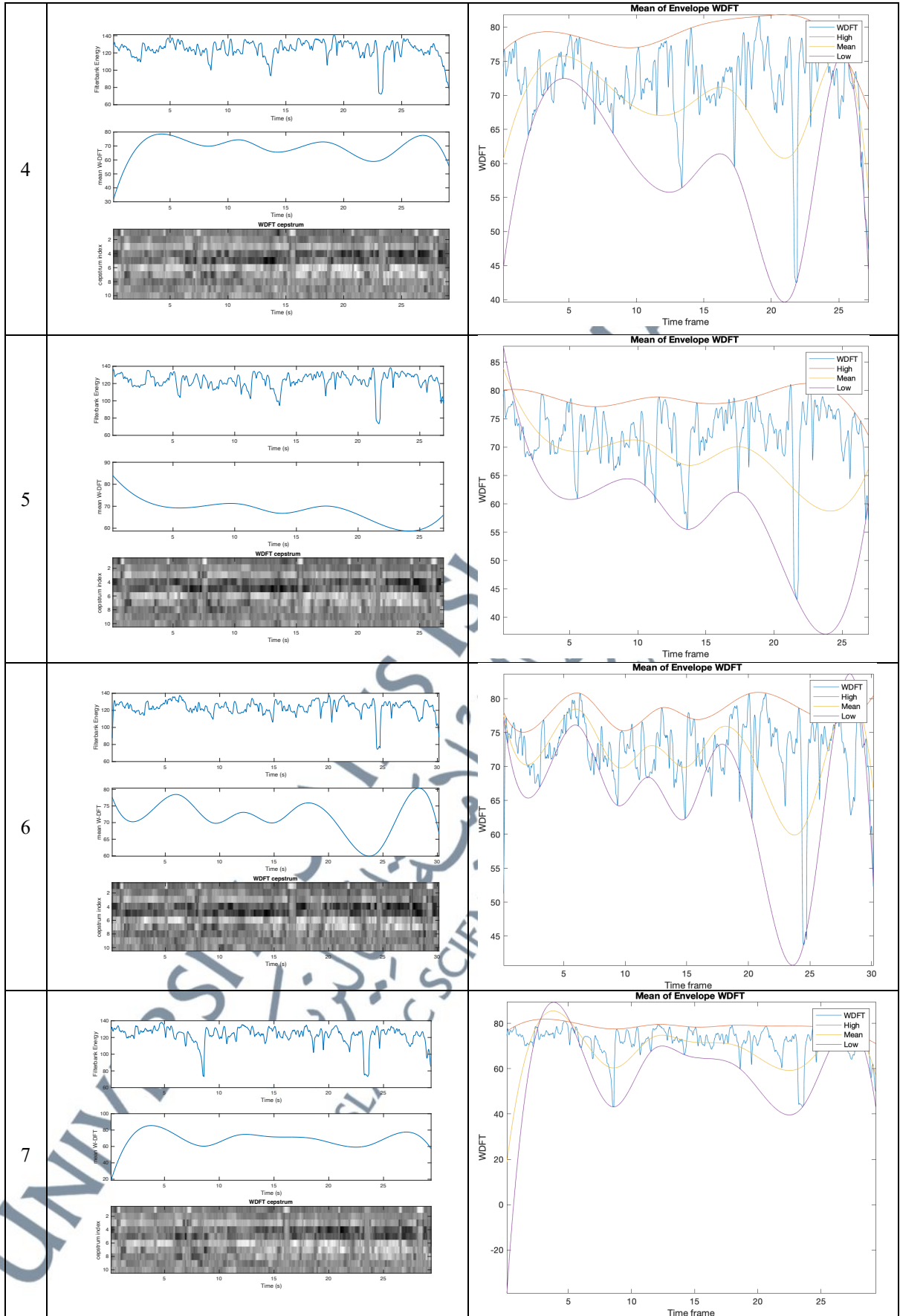




Surah : Al-Ikhlās; $T_s = 25\text{ms}$

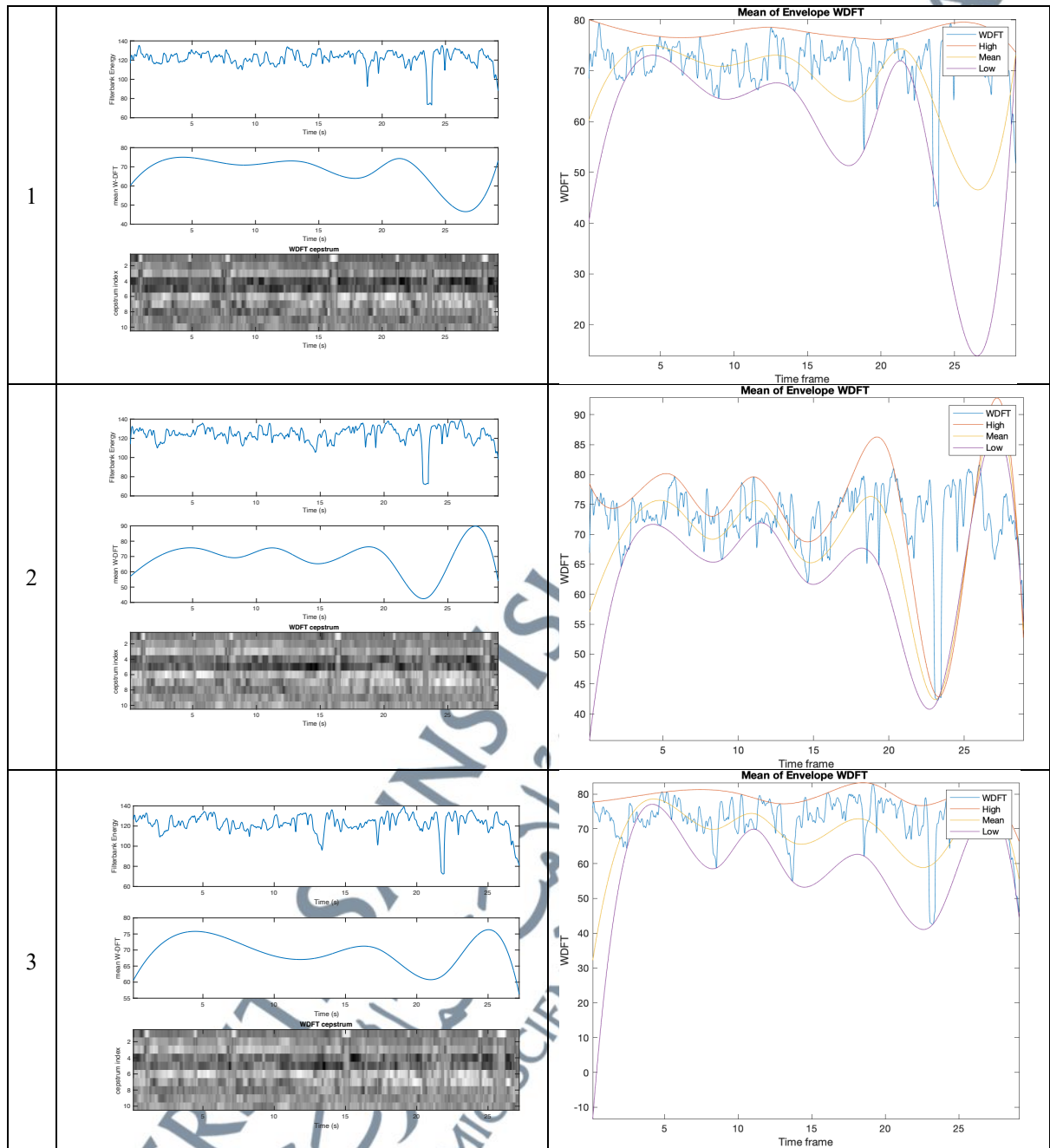
Maqamat : 1 - Bayyati, 2 - Hijaz, 3 - Jiharkah, 4 - Nahawand, 5 - Rast, 6 - Siqah, 7 - Soba

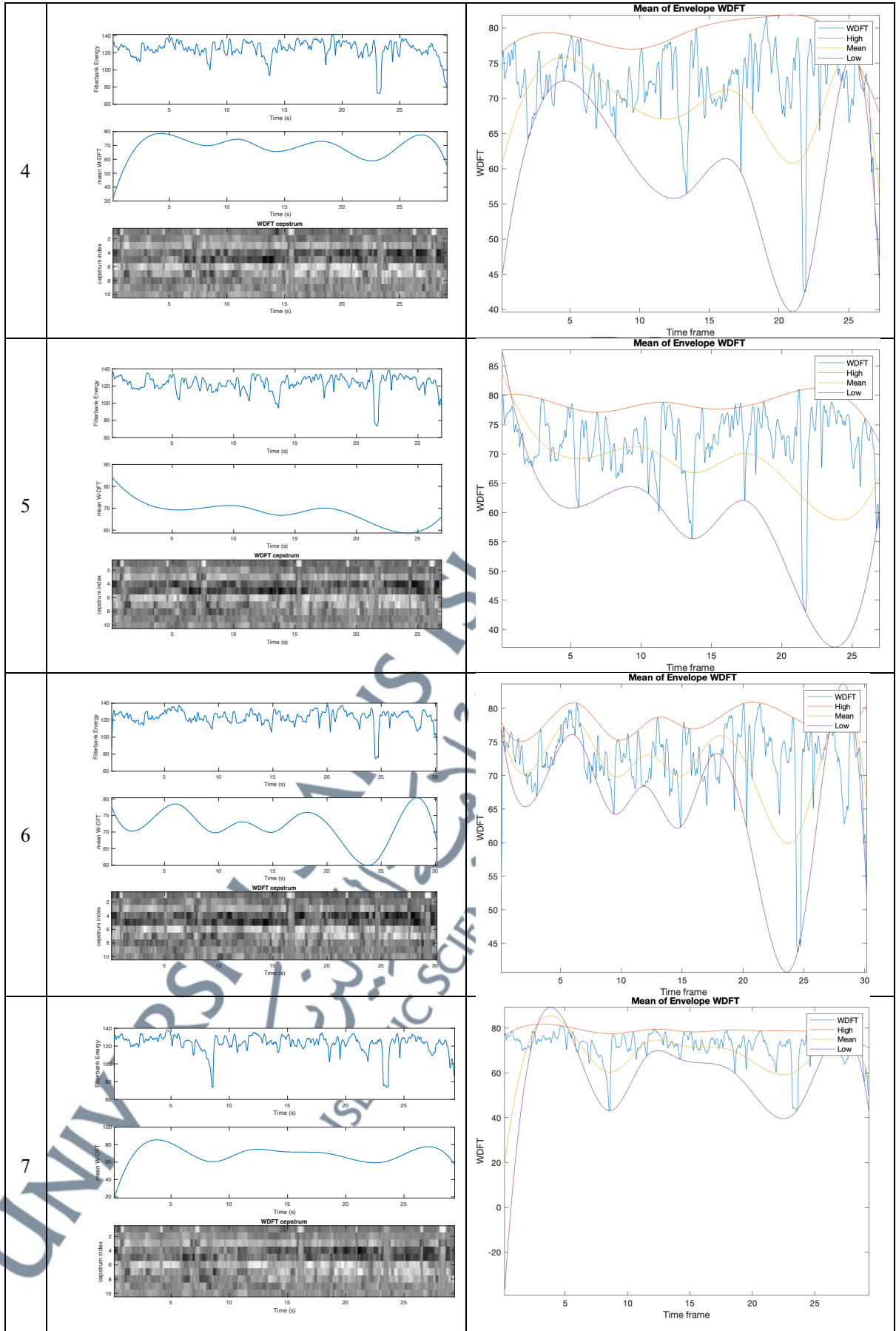




Surah : Al-Falaq; Ts = 25ms

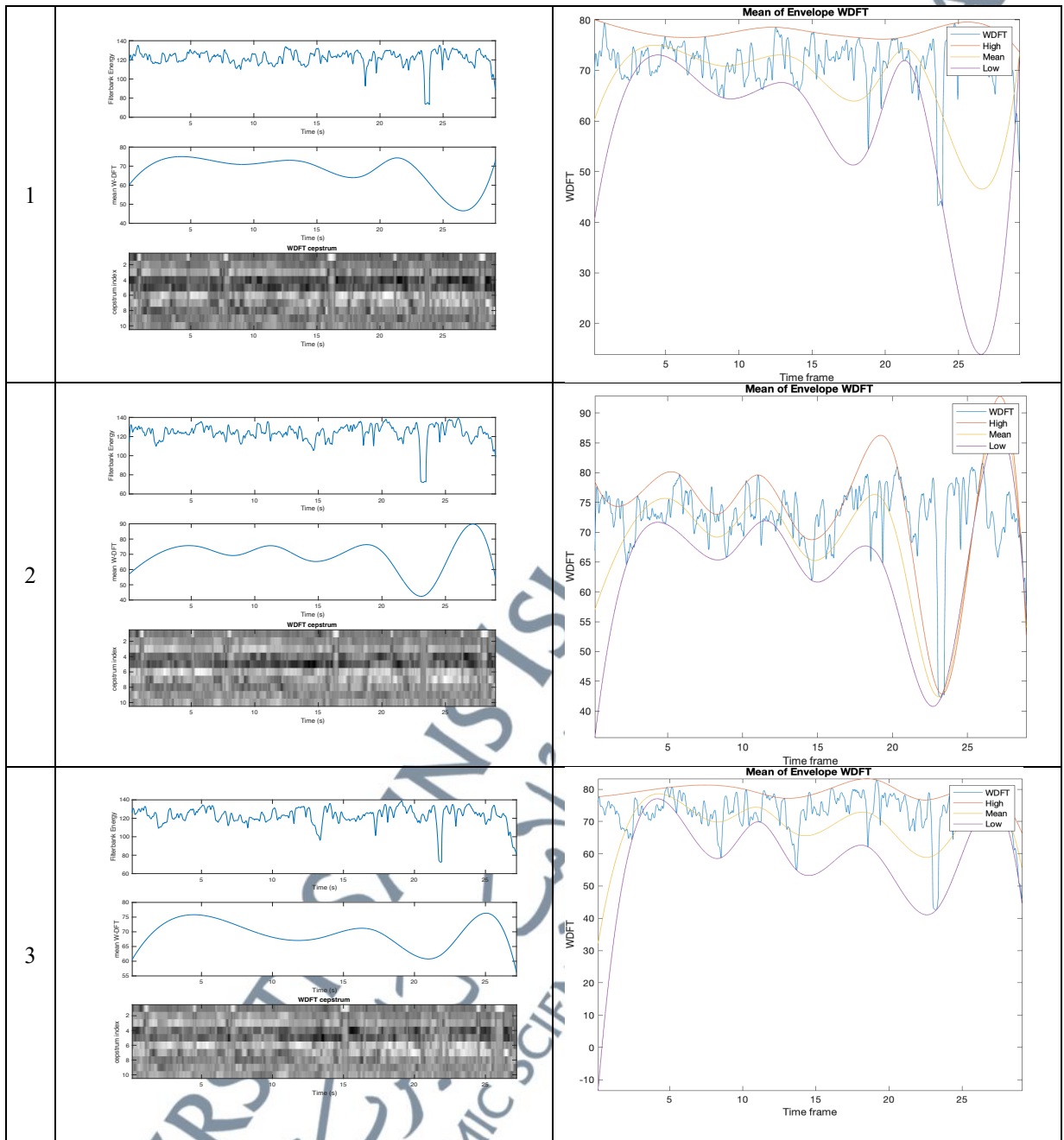
Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba

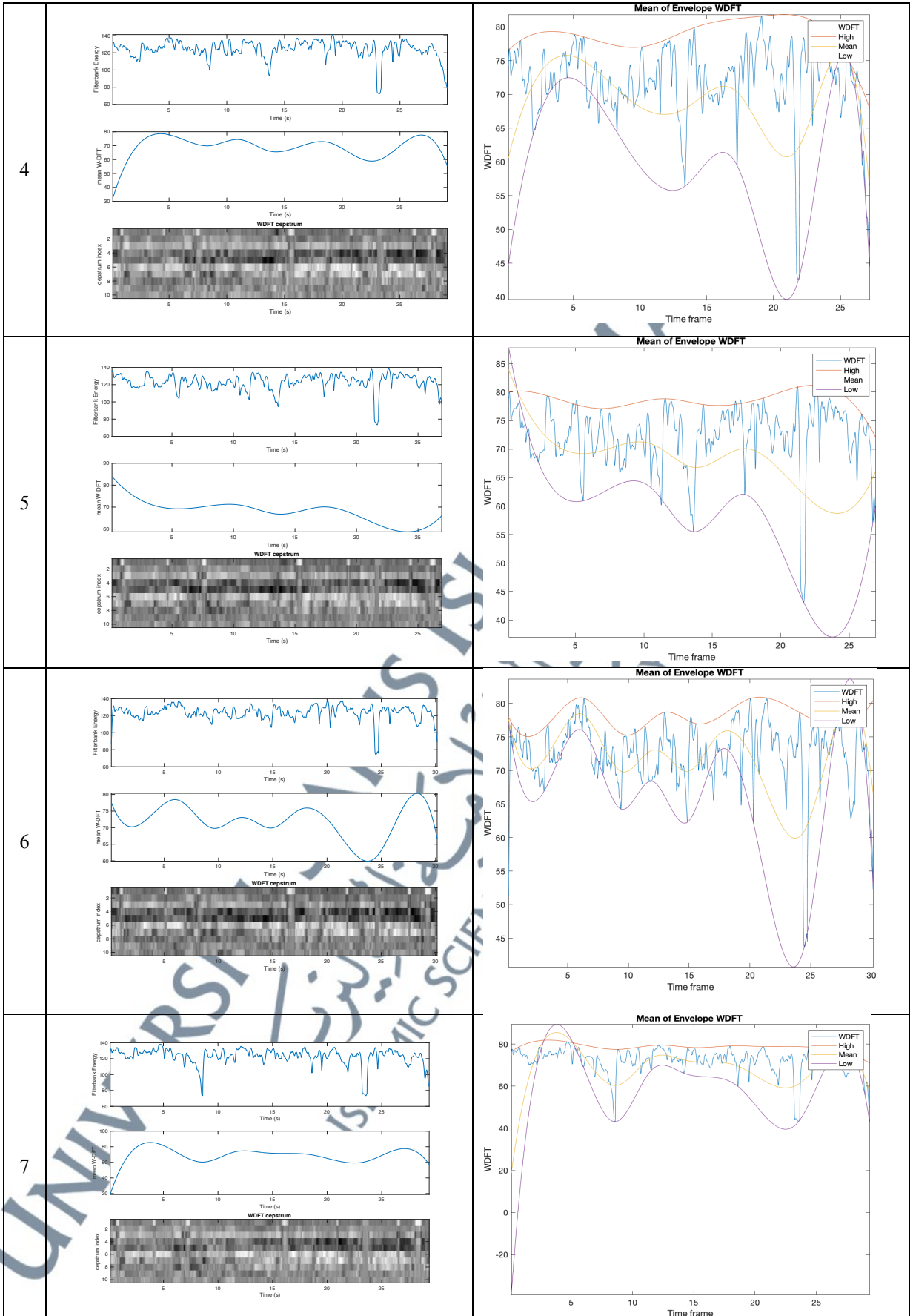




Surah: An-Nas; $T_s = 25\text{ms}$

Maqamat: 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba

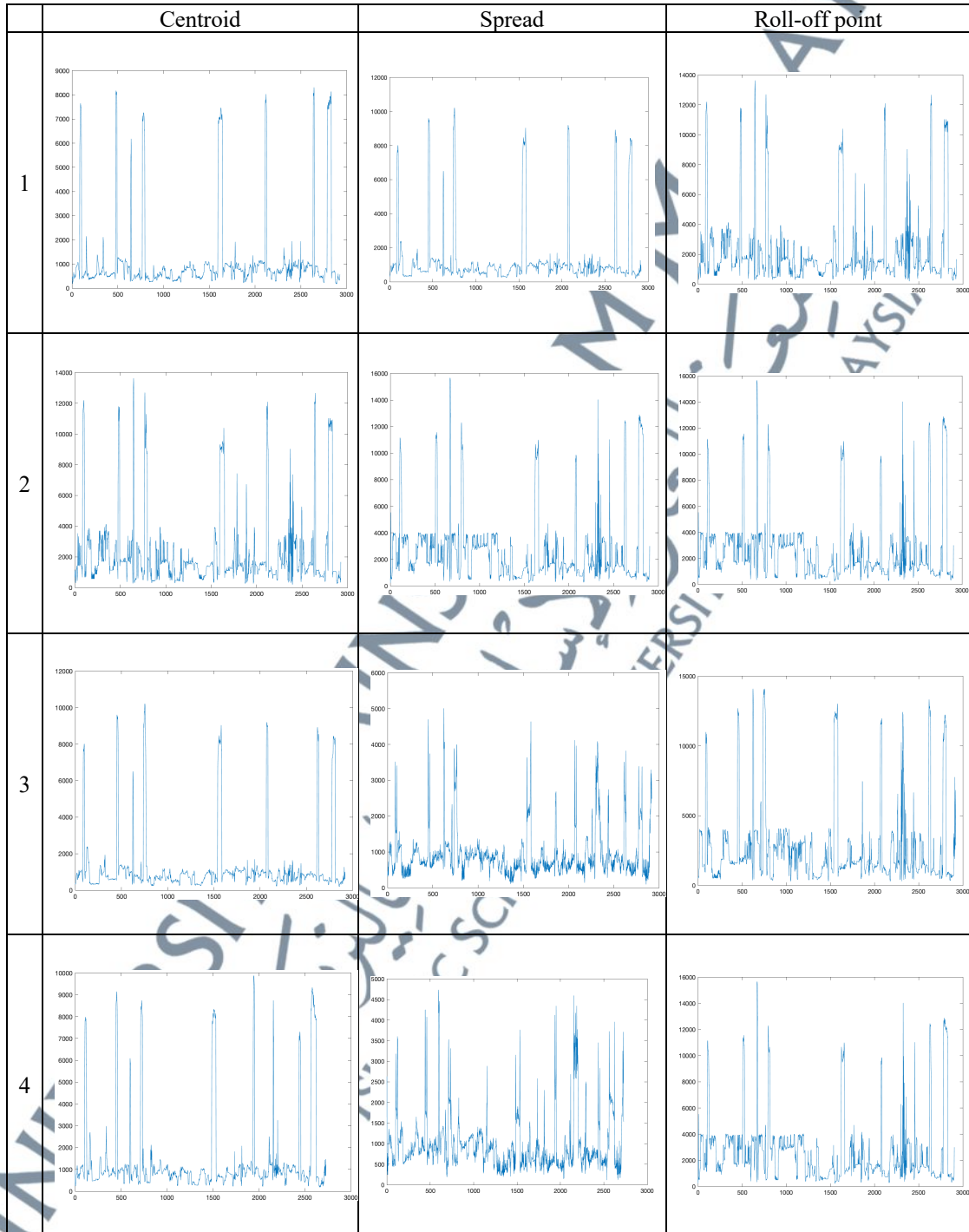


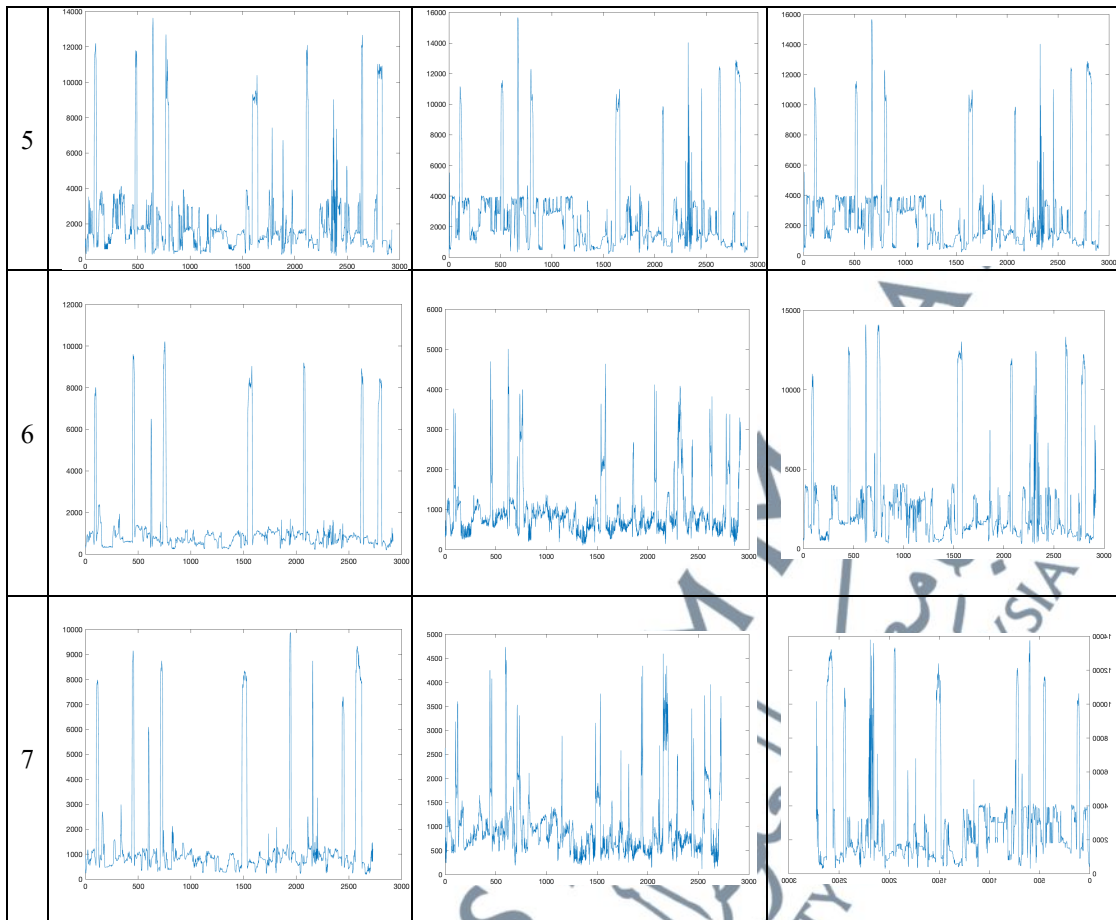


APPENDIX B

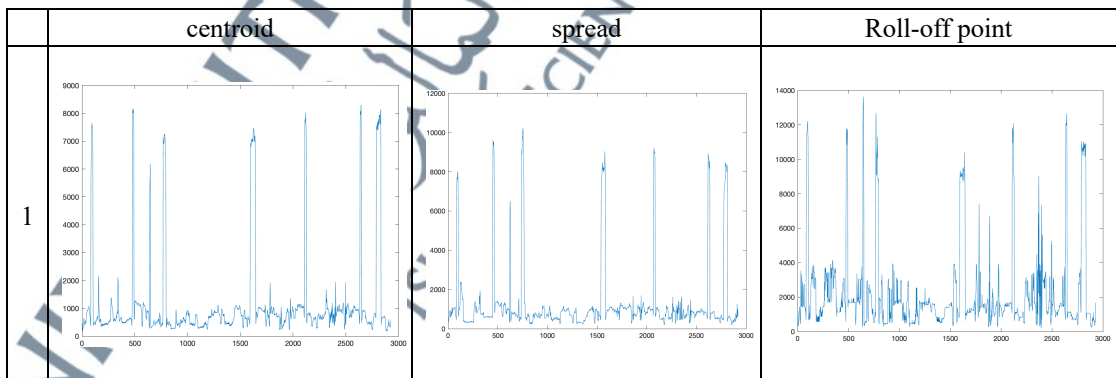
Graph of Spectral Descriptors

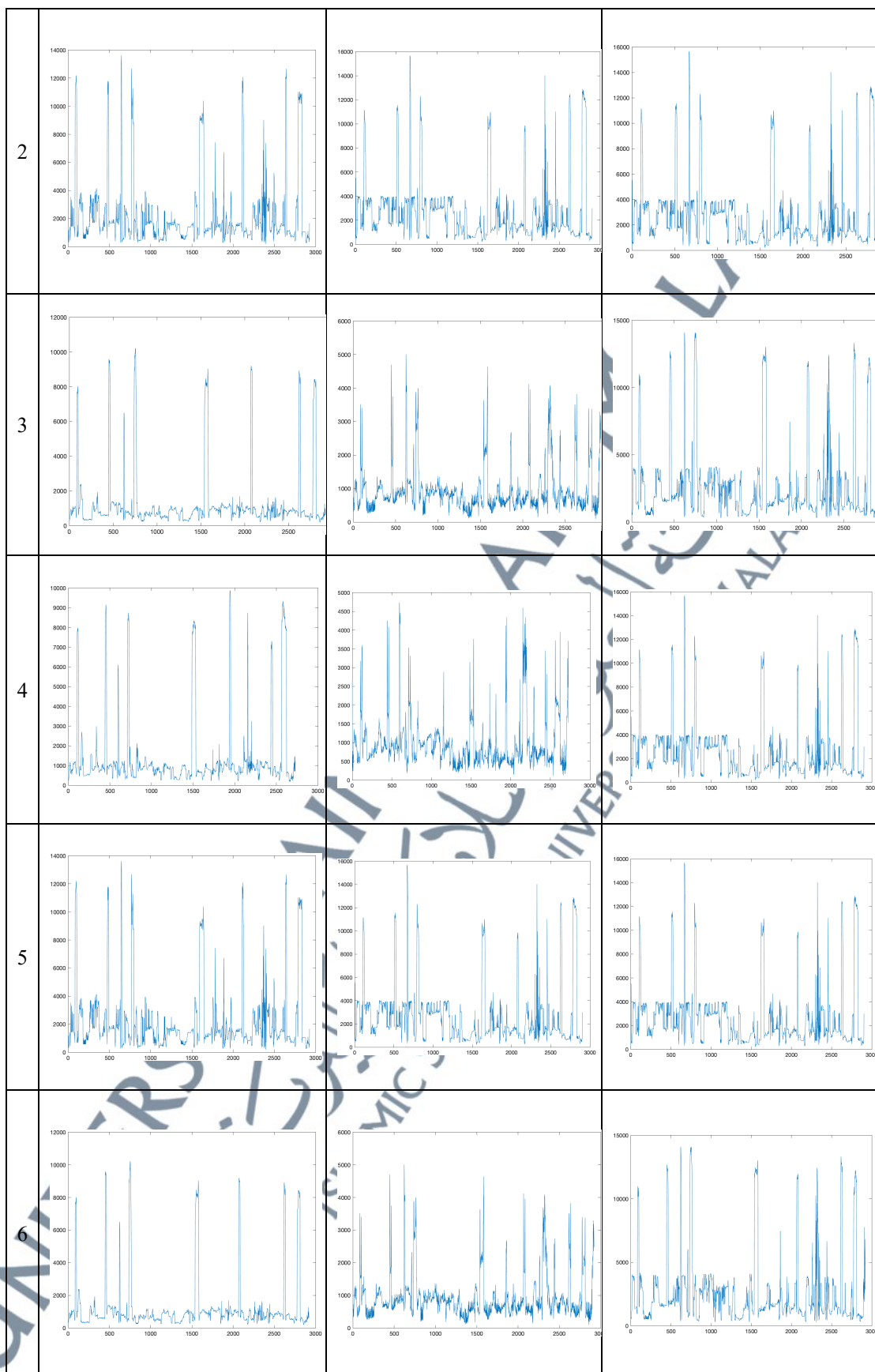
Surah: Al-Asr; Maqamat: 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 - Soba

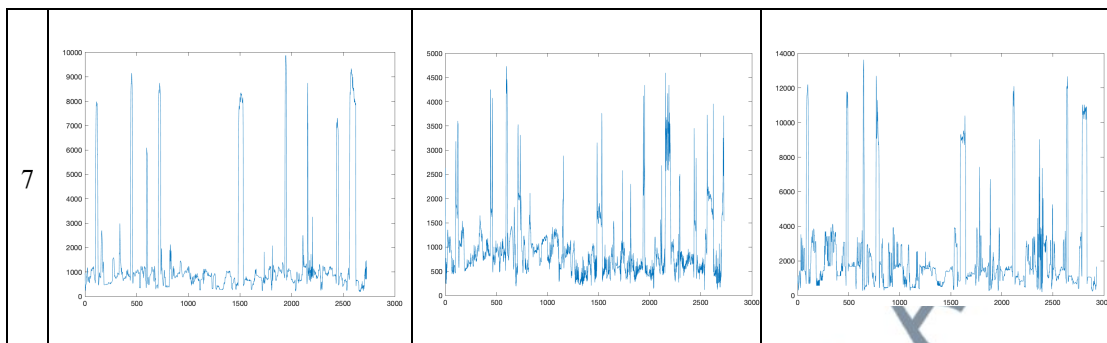




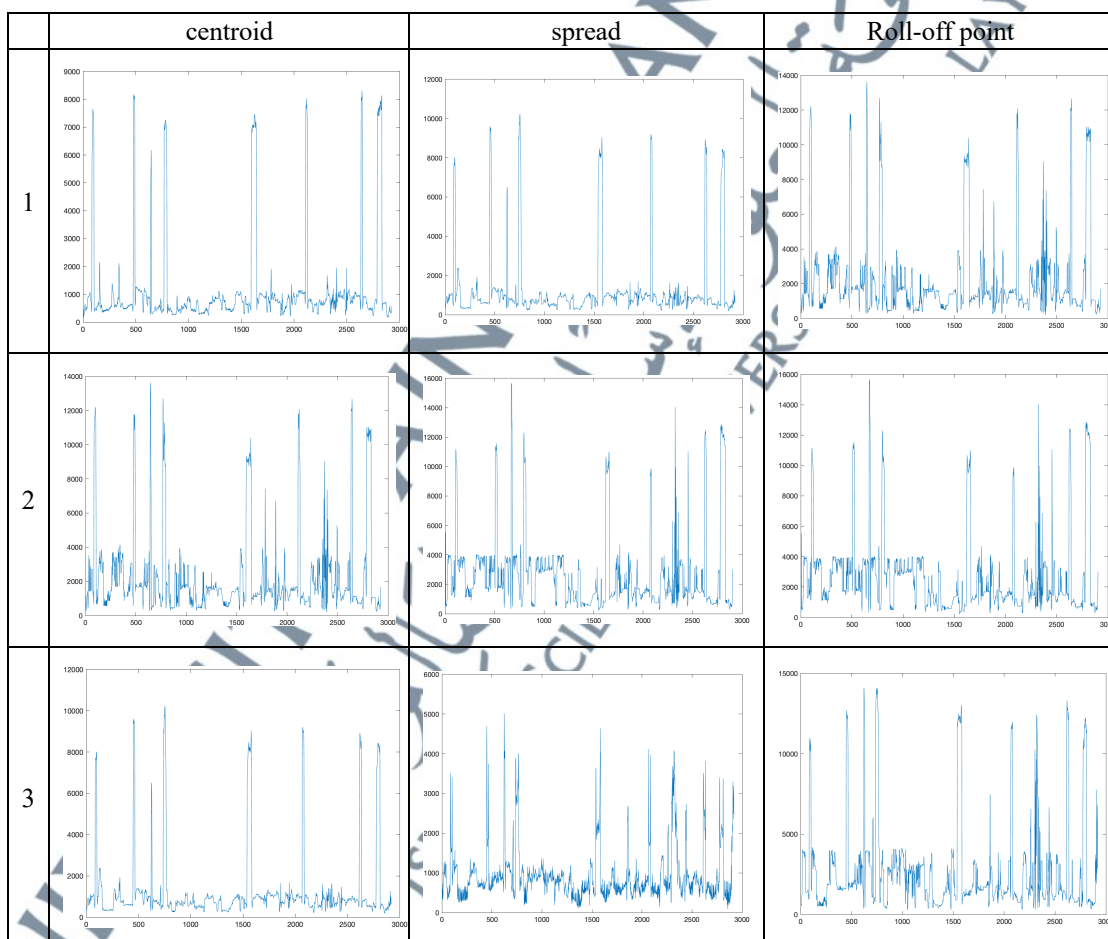
Surah : Al-Ikhlās; Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 - Soba

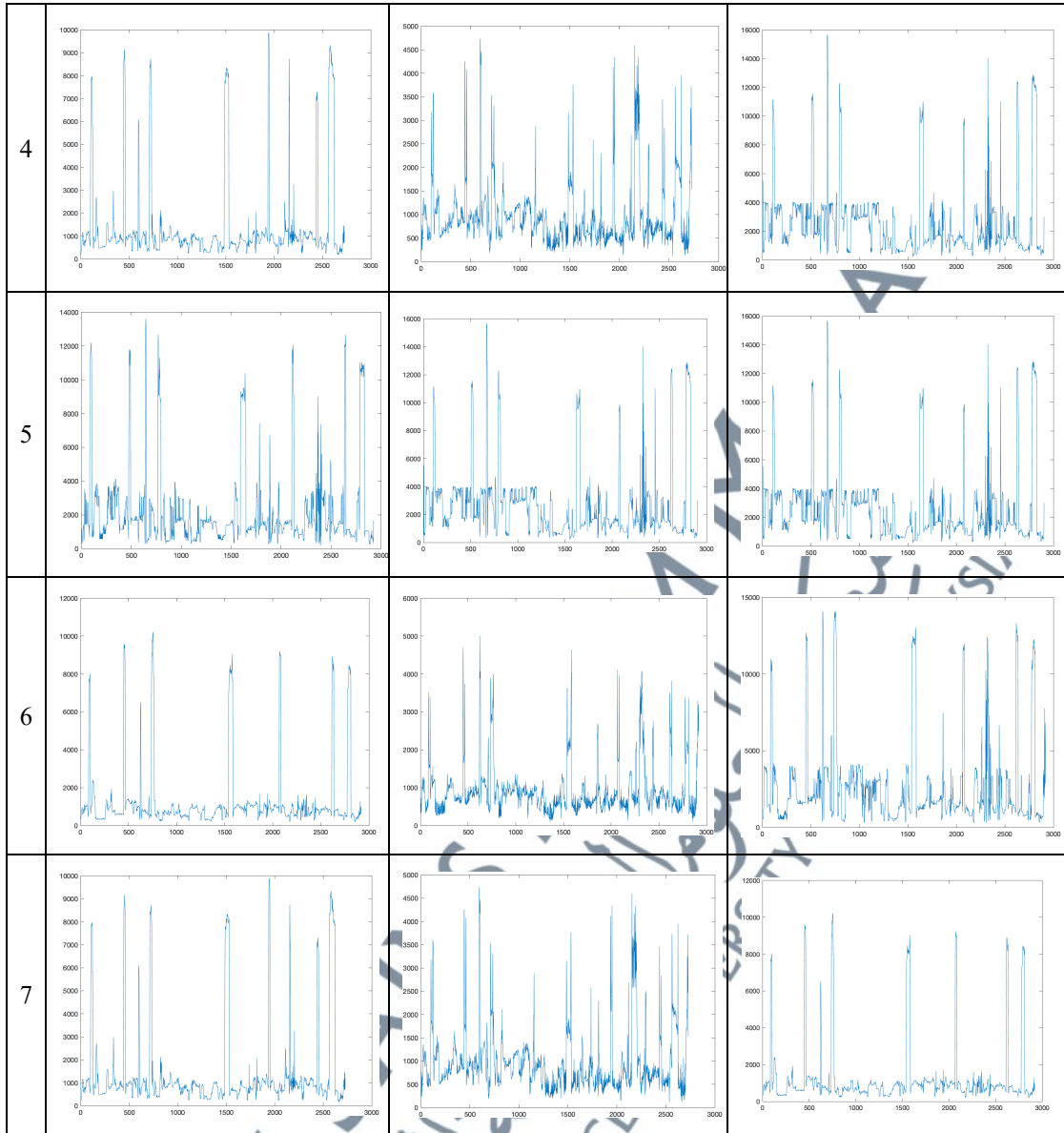






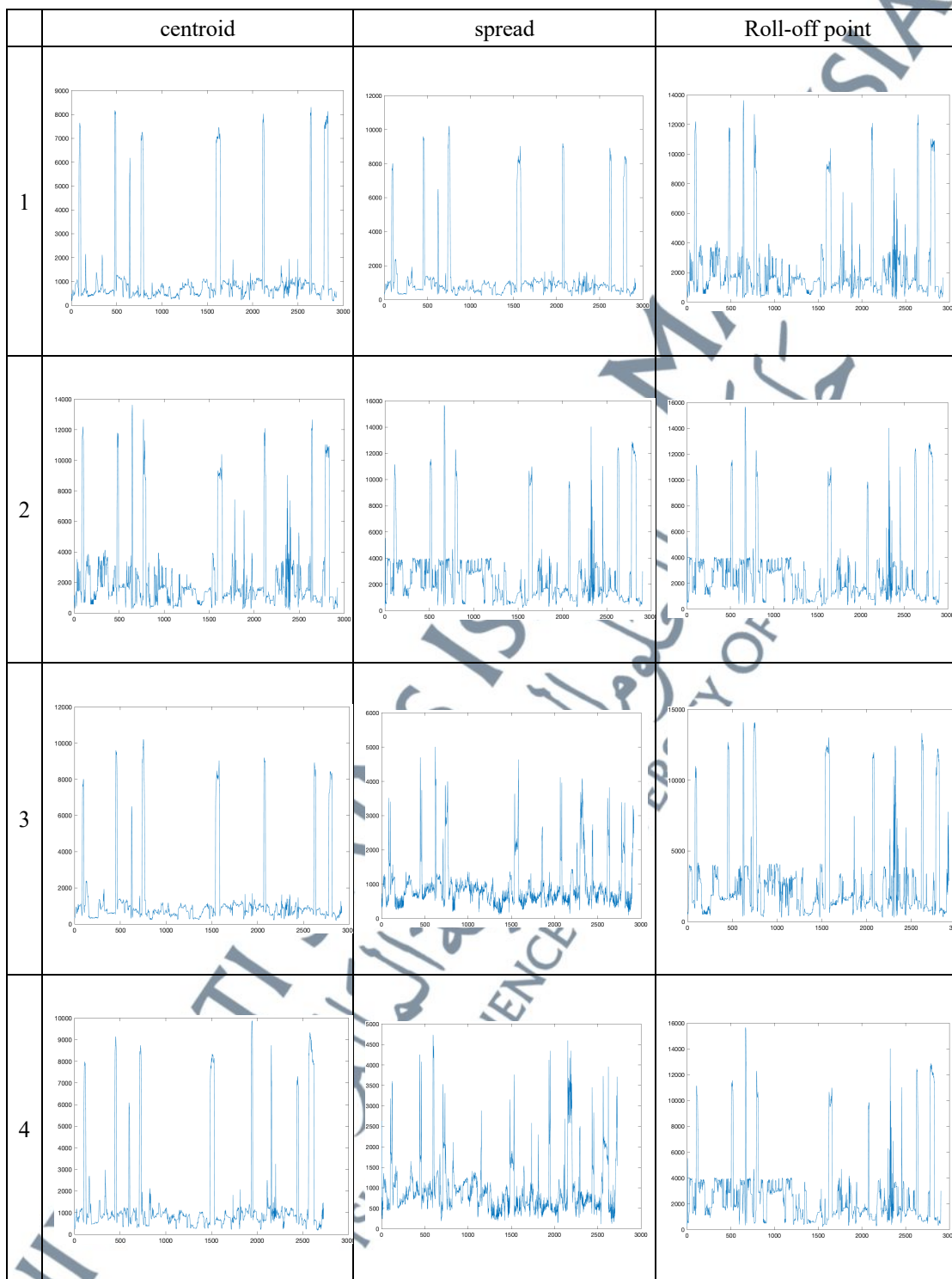
Surah : Al-Falaq; Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 - Soba

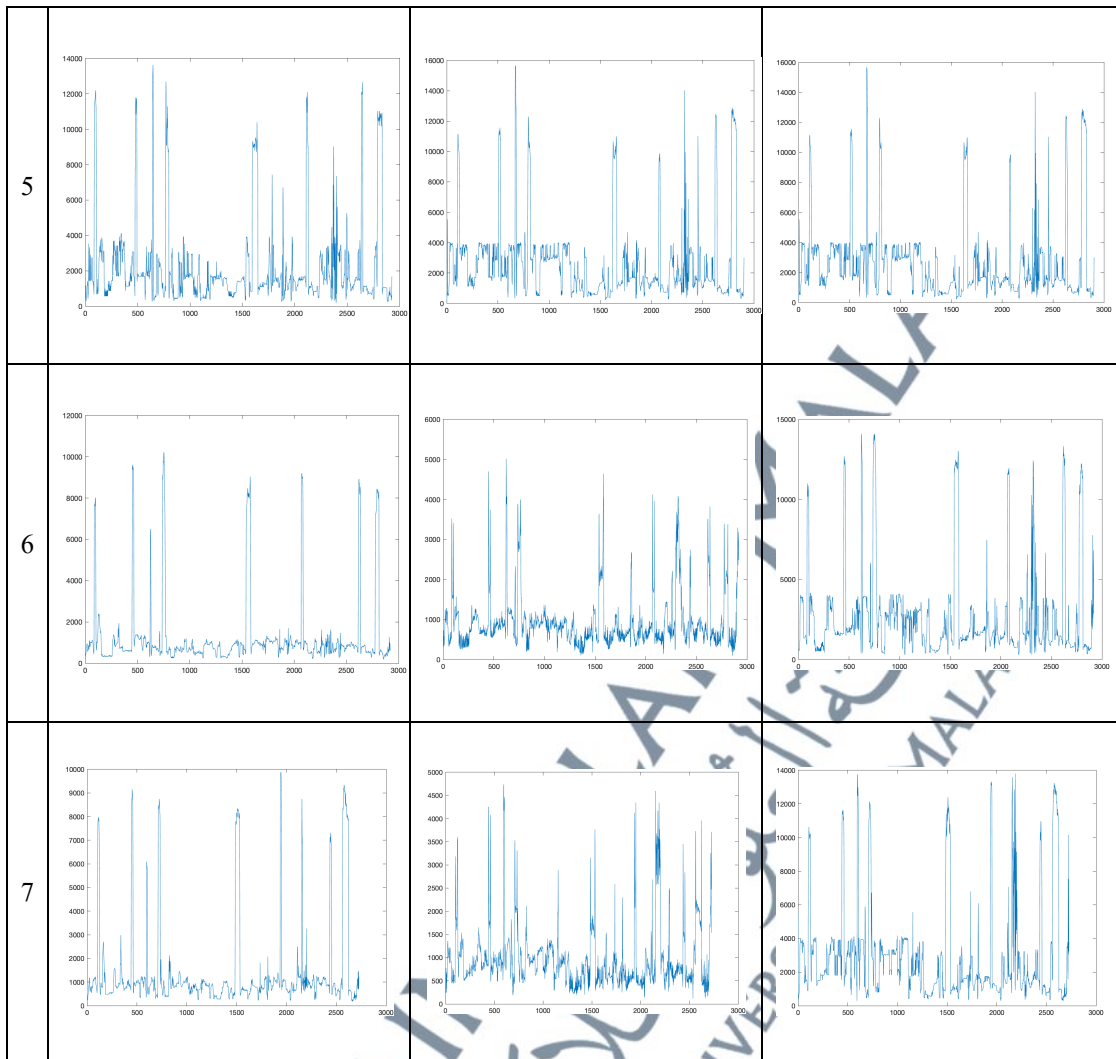




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Surah : An-Nas; Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 - Soba





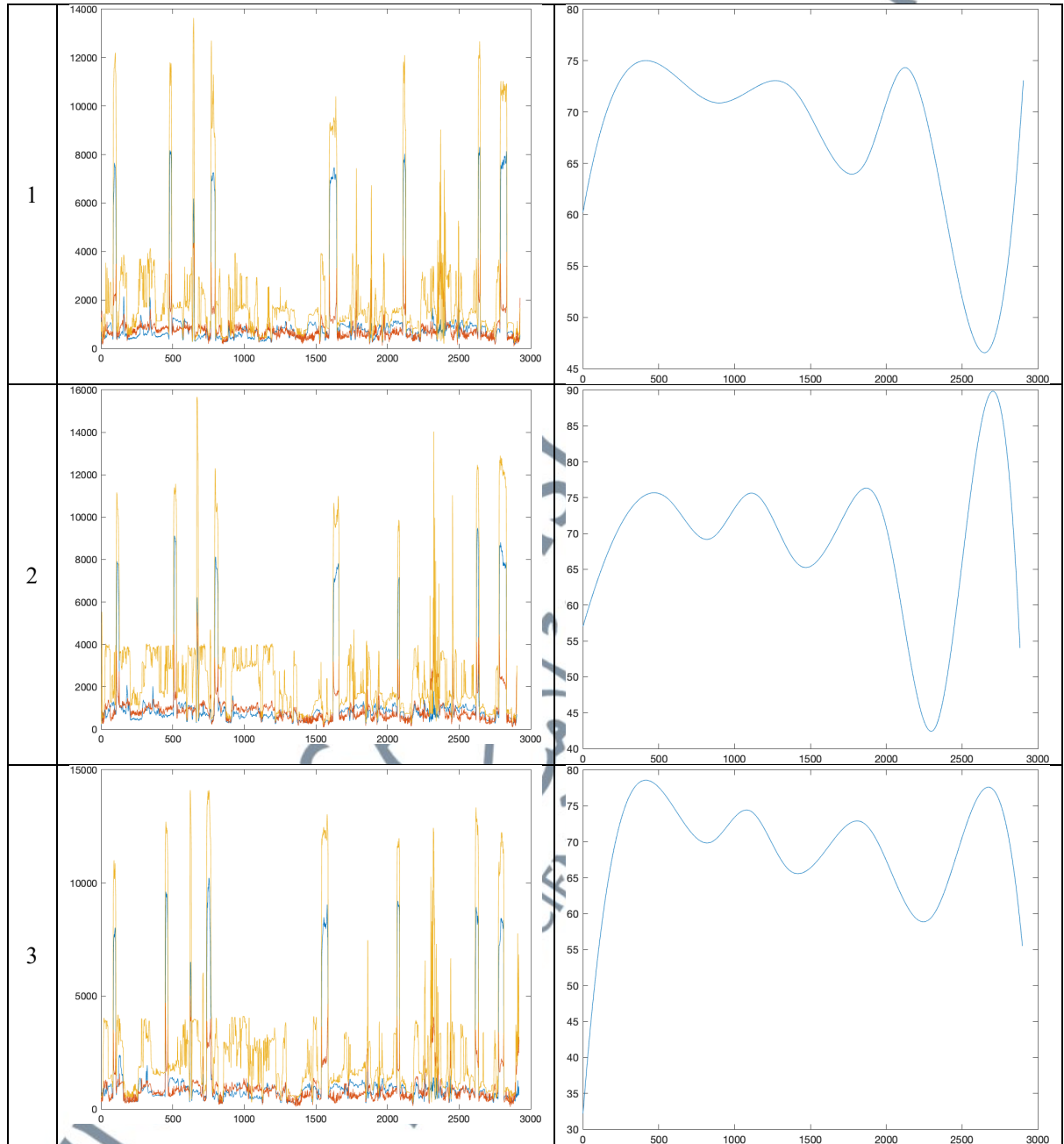
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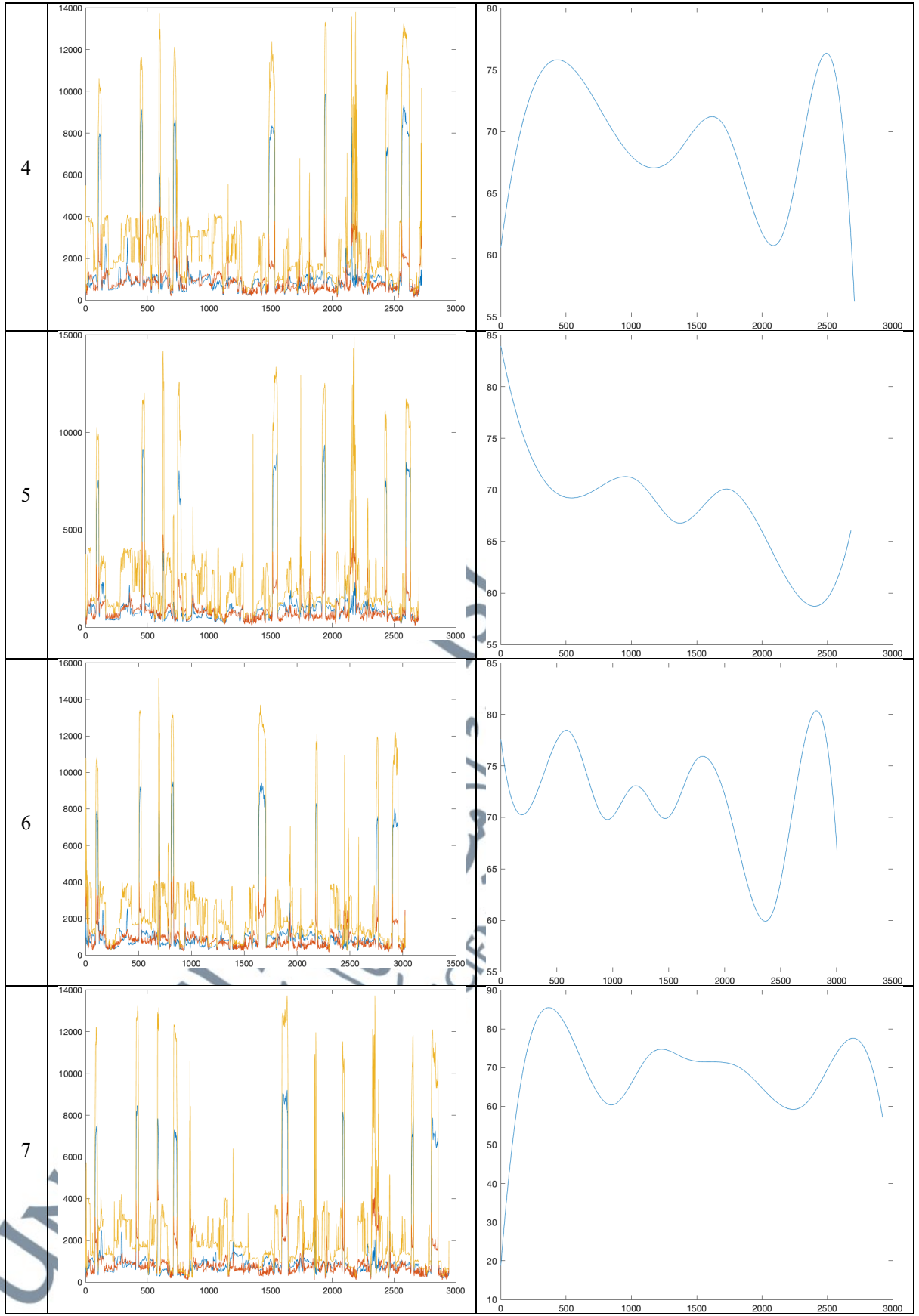
APPENDIX C

Result of Spectral Descriptors (centroid, spread and roll-off) and Envelope WDFT.

Surah: Al-Asr; $T_s = 250\text{ms}$

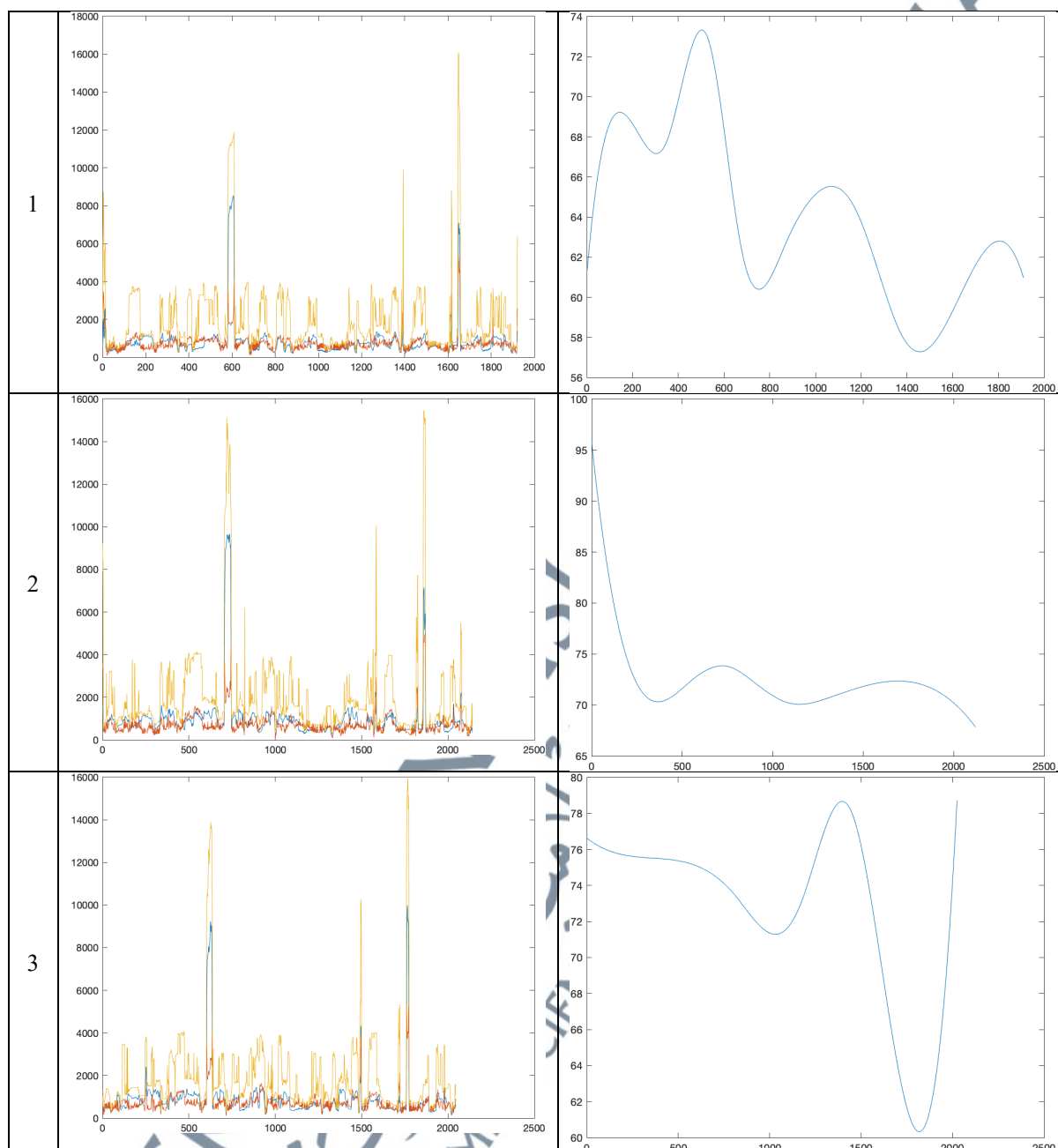
Maqamat: 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba

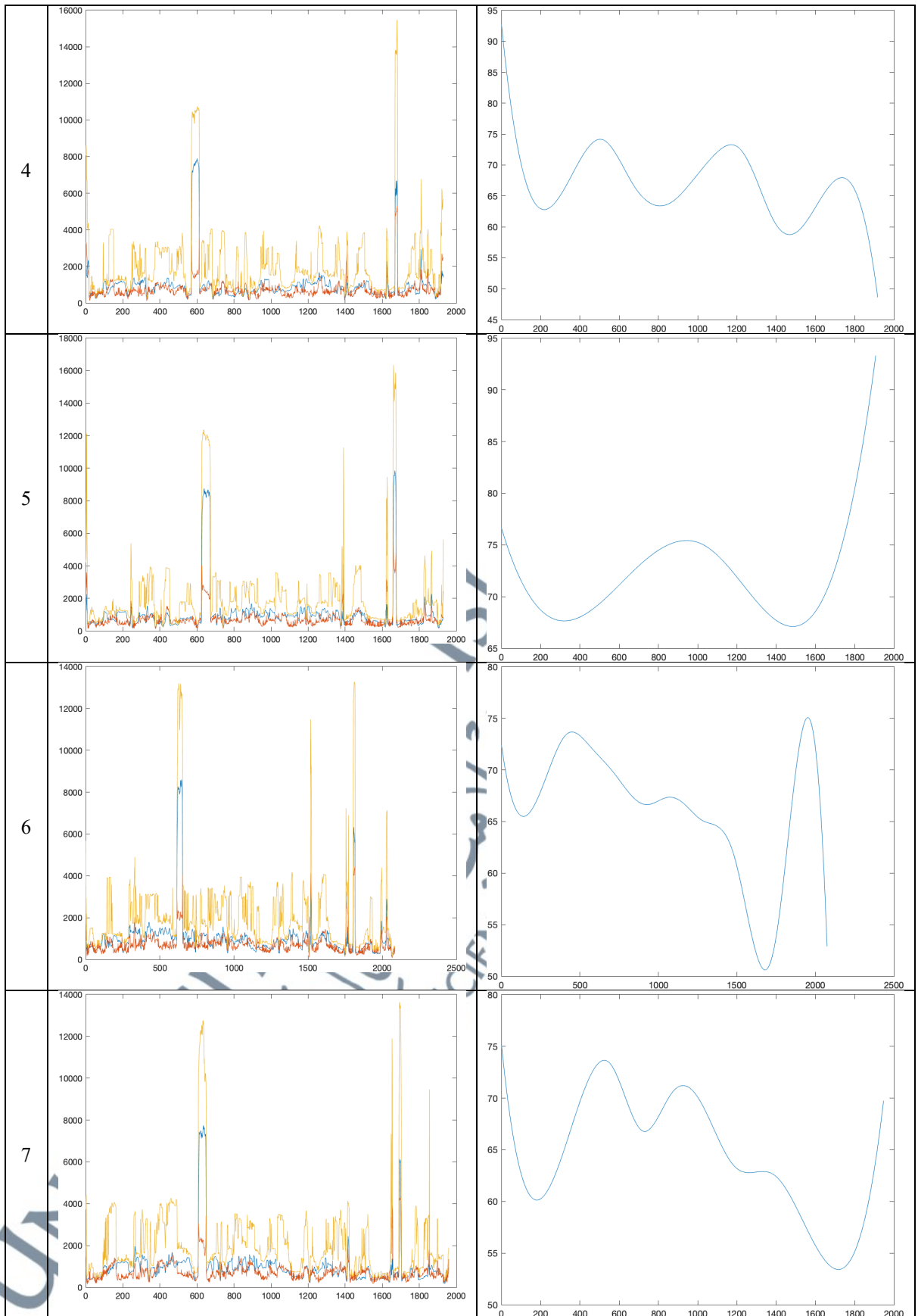




Surah : Al-Ikhlās; $T_s = 250\text{ms}$

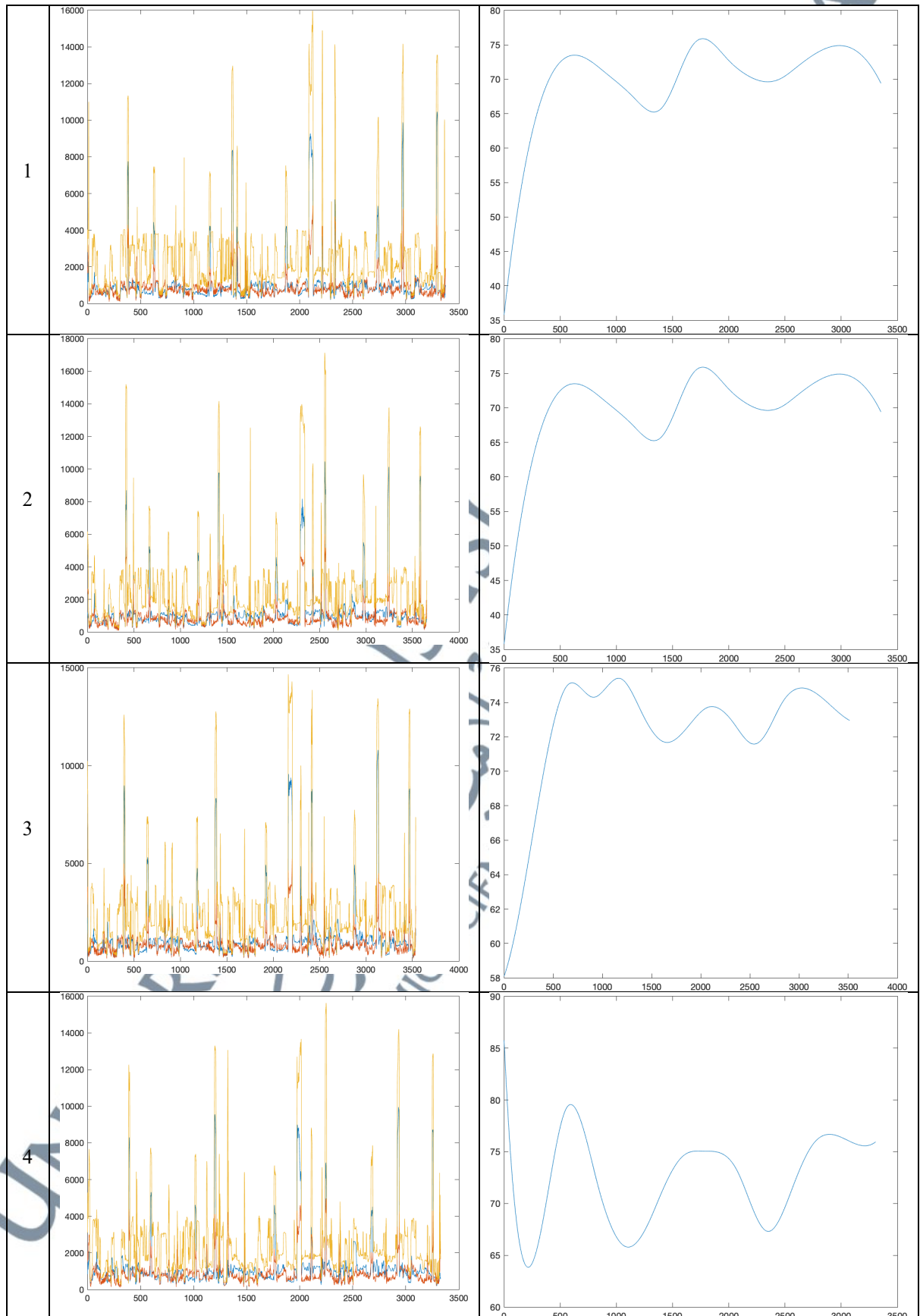
Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba

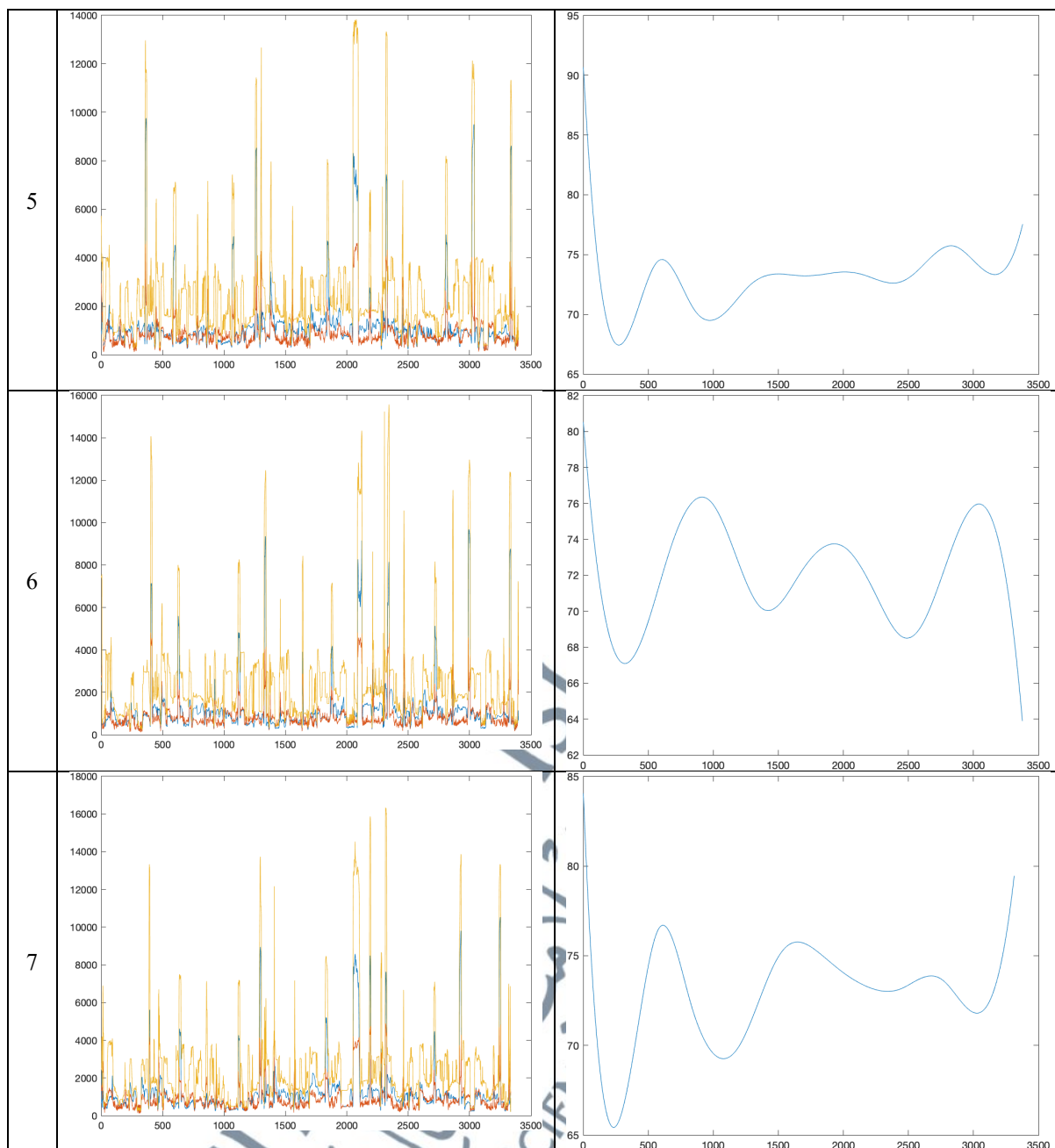




Surah : Al-Falaq; Ts = 250ms

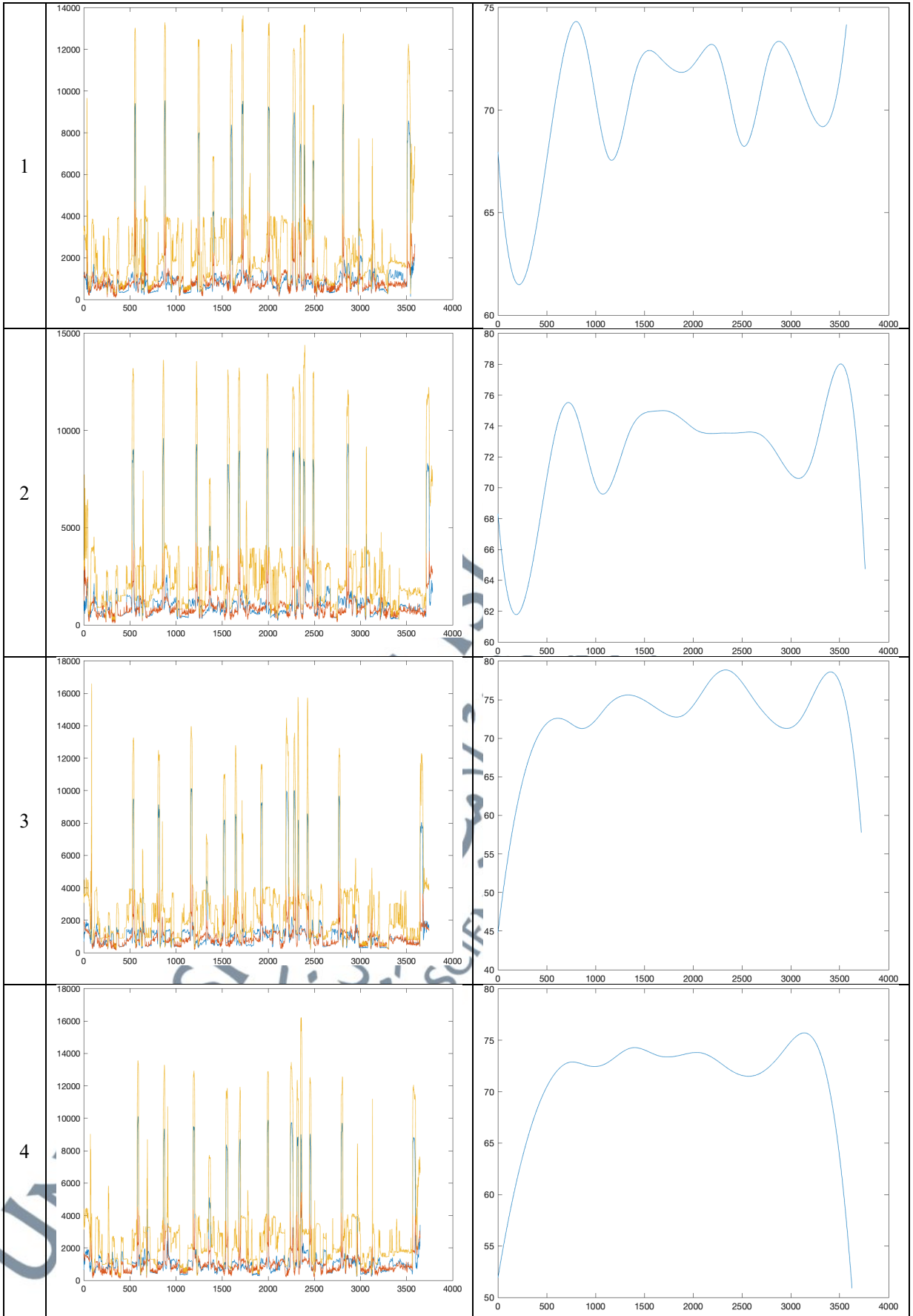
Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba

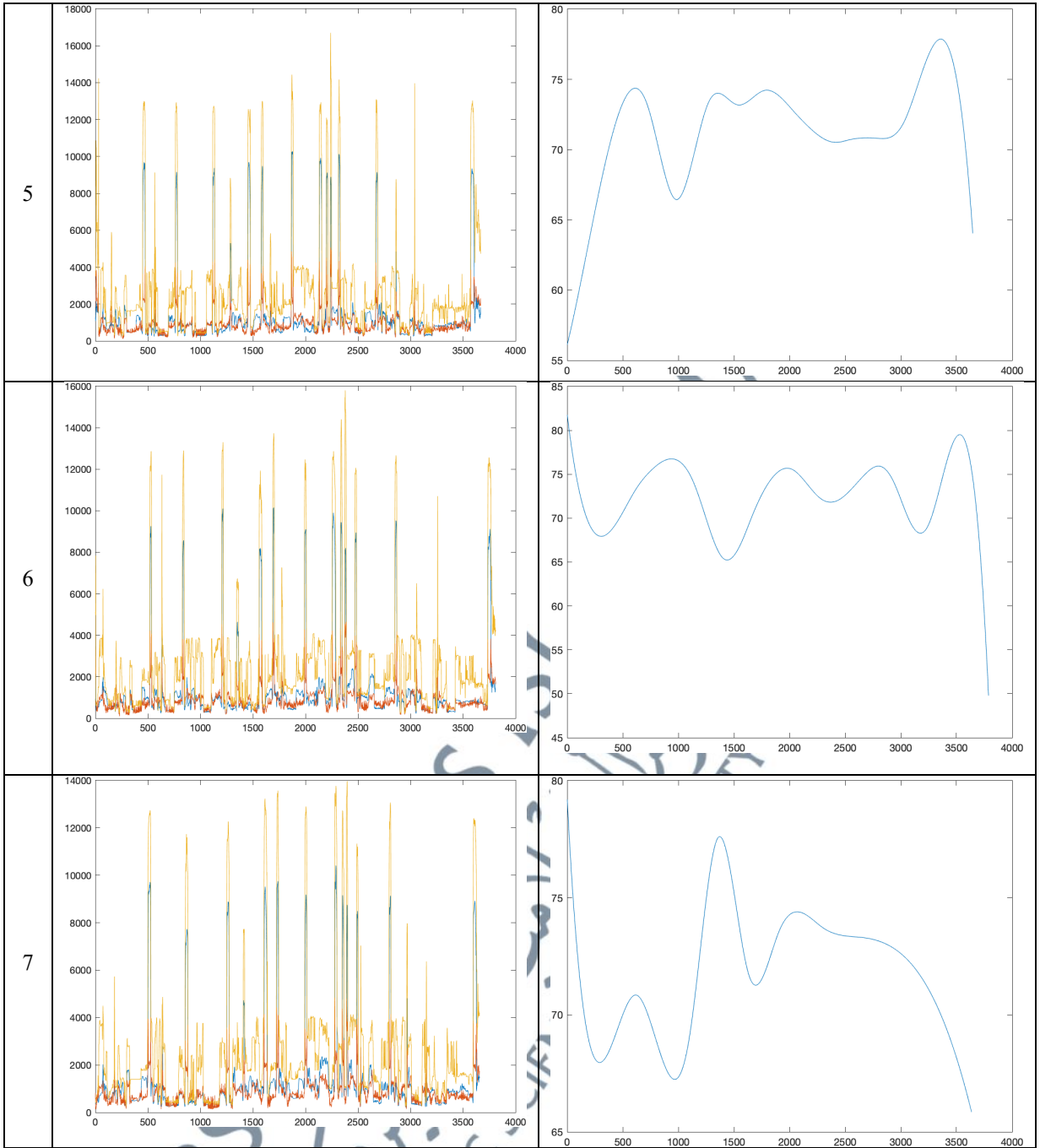




Surah : An-Nas; Ts = 250ms

Maqamat : 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba





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APPENDIX D

Signal pattern extracted from primary dataset using W-DFT for each maqamat based on attributes

Maqamat: 1- Bayyati, 2 – Hijaz, 3 – Jiharkah, 4 – Nahawand, 5 – Rast, 6 – Siqah, 7 – Soba

