# CHAPTER FIVE

# RESULTS AND DISCUSSION

## Plot a graph of po and 𝛚1+𝛚2+𝛚D, 𝛚1+𝛚2-𝛚D on the same graph.

**Table of Dipole moments and anti -Stokes frequencies at incident radiation of frequency 35.38 s-1**

|  |  |  |
| --- | --- | --- |
| DIPOLE MOMENTS | Modified anti-Stokes frequencies | |
| **po** | 𝛚1+𝛚2+𝛚D | 𝛚1+𝛚2-𝛚D |
| 1.85 | 46.71 | 39.84 |
| 1.77 | 46.44 | 39.45 |
| 1.70 | 45.06 | 39.20 |
| 1.60 | 43.61 | 38.46 |
| 1.43 | 42.11 | 38.28 |

**Table of Dipole moments and anti -Stokes frequencies at incident radiation of frequency 35.38 s-1**

|  |  |  |
| --- | --- | --- |
| DIPOLE MOMENTS | Modified anti-Stokes frequencies | |
| po | 𝛚1+𝛚2+𝛚D | 𝛚1+𝛚2-𝛚D |
| 0.424 | 40.10 | 39.30 |
| 0.366 | 37.58 | 37.34 |
| 0.132 | 36.52 | 36.38 |
| 0.123 | 29.72 | 29.43 |
| 0.084 | 21.12 | 20.85 |

**Table of Dipole moments and Stokes frequencies at incident radiation of frequency 35.38 s-1**

|  |  |  |
| --- | --- | --- |
| DIPOLE MOMENTS | Modified Stokes frequencies | |
| po | 𝛚1-𝛚2+𝛚D | 𝛚1-𝛚2-𝛚D |
| 1.85 | 37.92 | 24.95 |
| 1.77 | 35.56 | 24.32 |
| 1.70 | 33.48 | 23.70 |
| 1.60 | 32.30 | 23.06 |
| 1.43 | 30.28 | 22.65 |

**Table of Dipole moments and anti -Stokes frequencies at incident radiation of frequency 35.38 s-1**

|  |  |  |
| --- | --- | --- |
| DIPOLE MOMENTS | Modified anti-Stokes frequencies | |
| po | 𝛚1-𝛚2+𝛚D | 𝛚1-𝛚2-𝛚D |
| 0.424 | 34.66 | 34.45 |
| 0.366 | 33.42 | 33.18 |
| 0.132 | 32.38 | 32.24 |
| 0.123 | 31.38 | 31.04 |
| 0.084 | 29.91 | 29.64 |

**Table of Dipole moments and anti -Stokes frequencies at incident radiation of frequency 35.38 s-1**

|  |  |  |
| --- | --- | --- |
| DIPOLE MOMENTS | Modified anti-Stokes frequencies | |
| po | 𝛚1+𝛚2+𝛚D | 𝛚1+𝛚2-𝛚D |
| 1.85 | 46.71 | 39.84 |
| 1.77 | 46.44 | 39.45 |
| 1.70 | 45.06 | 39.20 |
| 1.60 | 43.61 | 38.46 |
| 1.43 | 42.11 | 38.28 |
| 0.424 | 40.10 | 39.30 |
| 0.366 | 37.58 | 37.34 |
| 0.132 | 36.52 | 36.38 |
| 0.123 | 29.72 | 29.43 |
| 0.084 | 21.12 | 20.85 |

**Table of Dipole moments and Stokes frequencies at incident radiation of frequency 35.38 s-1**

|  |  |  |
| --- | --- | --- |
| DIPOLE MOMENTS | Modified Stokes frequencies | |
| po | 𝛚1-𝛚2+𝛚D | 𝛚1-𝛚2-𝛚D |
| 1.854 | 37.92 | 24.95 |
| 1.772 | 35.56 | 24.32 |
| 1.703 | 33.48 | 23.70 |
| 1.606 | 32.30 | 23.06 |
| 1.425 | 30.28 | 22.65 |
| 0.424 | 40.10 | 39.30 |
| 0.366 | 37.58 | 37.34 |
| 0.132 | 36.52 | 36.38 |
| 0.123 | 29.72 | 29.43 |
| 0.084 | 21.12 | 20.85 |

## 5.3 DISCUSSION