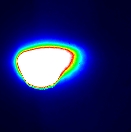
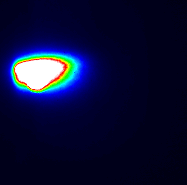
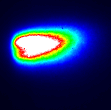
PLUMA ALIAJULUI cu memoria formei CuZnAl14

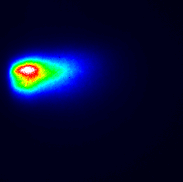
25 ns

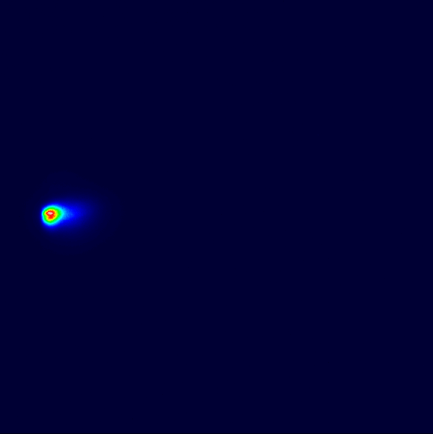
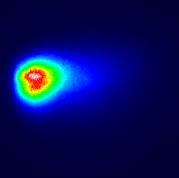
50 ns

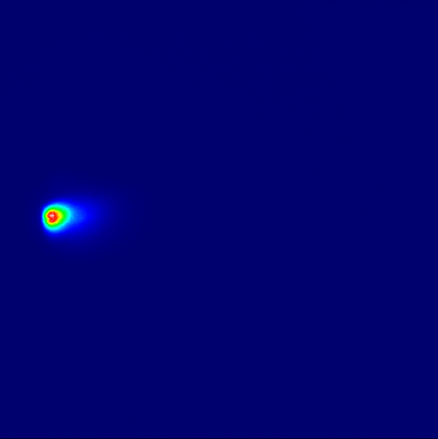
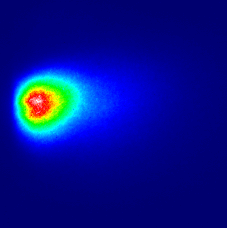
75 ns

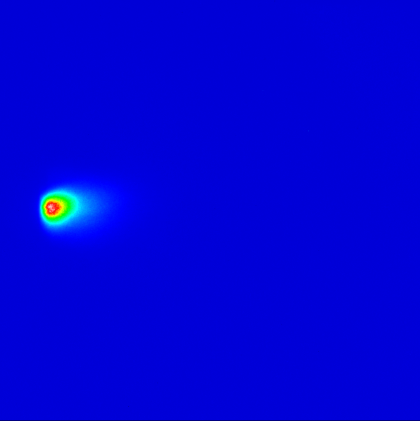
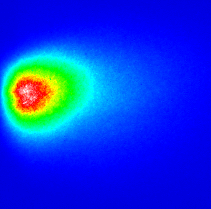
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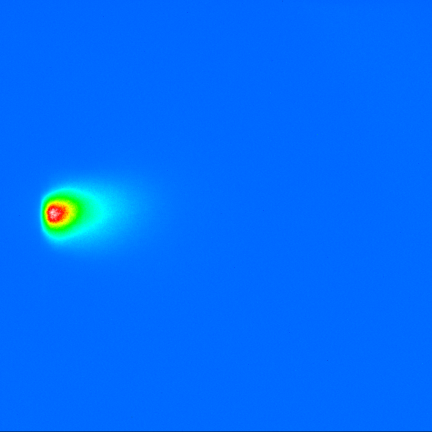
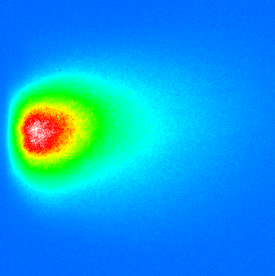
150 ns

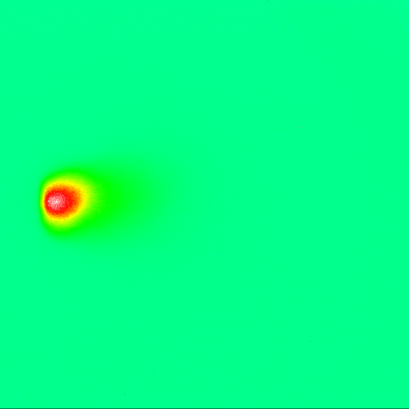
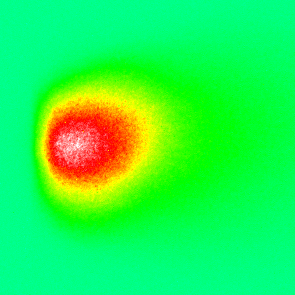
200 ns

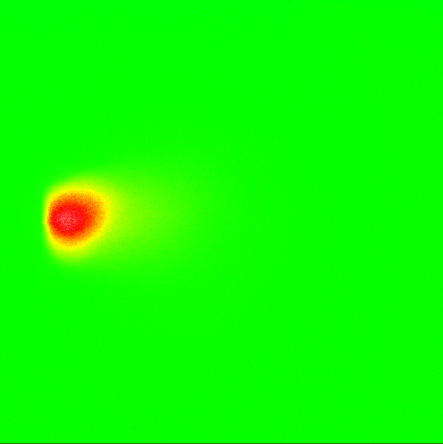
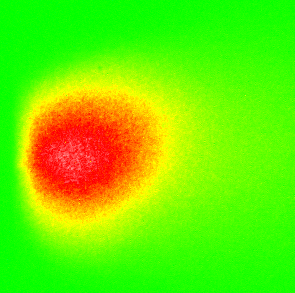
250 ns

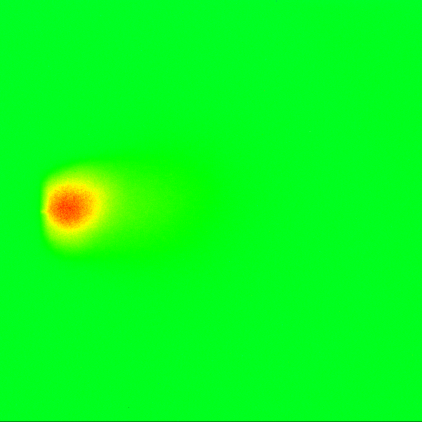
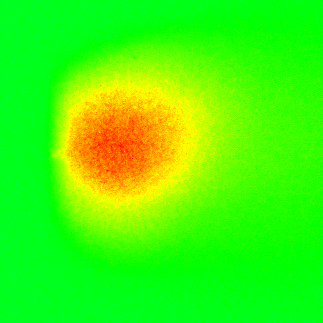
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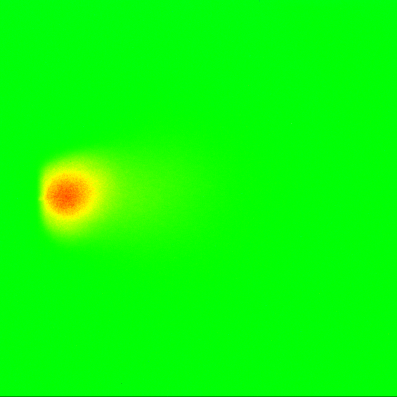
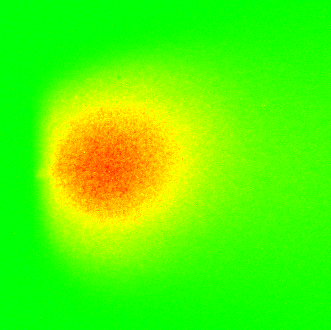
400 ns

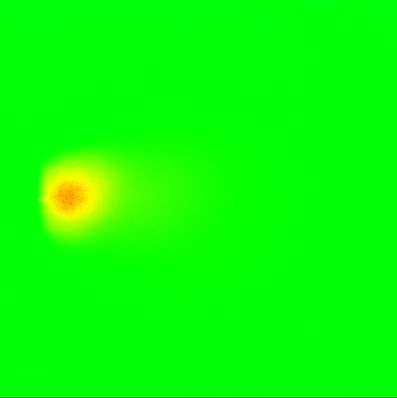
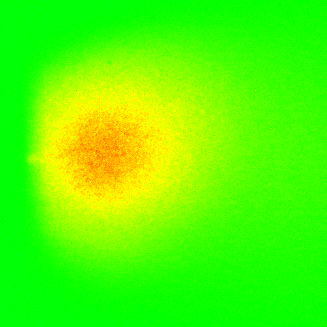
500 ns

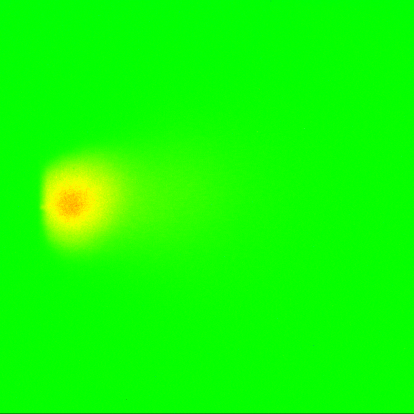
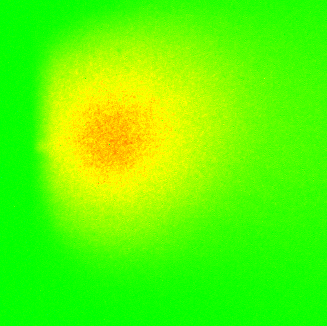
550 ns

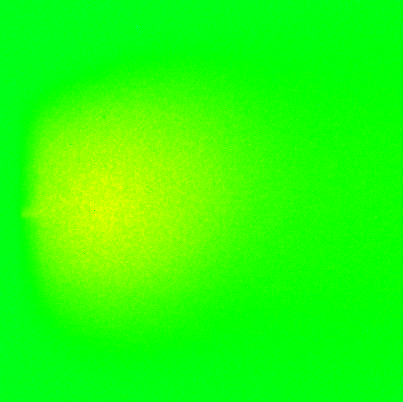
600 ns

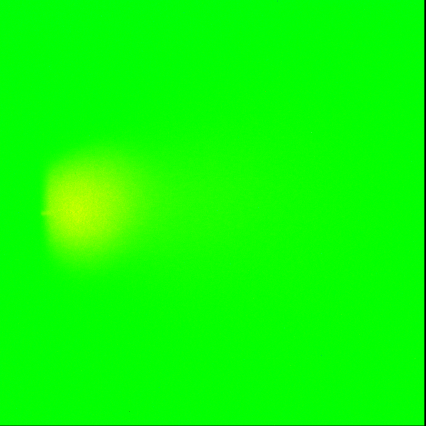
650 ns

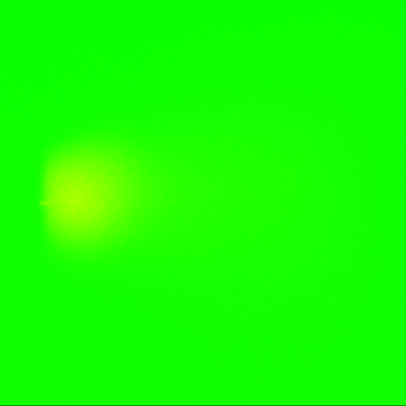
700 ns

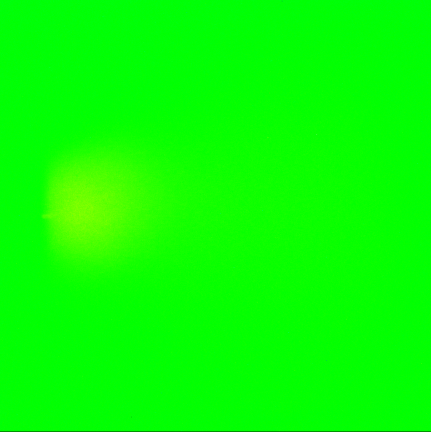
800ns



900 ns

1000 ns

1100 ns

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Time [ns] | 25 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Distance [mm] | 1.76 | 2.068 | 2.156 | 2.2 | 2.28 | 3.08 | 3.652 | 4.01 | 4.4 | 4.532 | 4.6 | 4.67 | 4.75 | 4.95 |

Analiza Spectrului plumei aliajului cu memoria formei CuZnAl 14



Spectrometrie optică indusă cu laser (LIBS)a plumei aliajului cu memoria formei CuZnAl 14

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Nr. Crt. | Observed wavelength air (nm) | Ion (element) | Aki  (s-1) | Ei  (cm-1) | Ek  (cm-1) |
| 1 | 308.08 | **(NiI)** | 8.7+06 | 1713.087 | 34163.264 |
| 2 | 308.98 | **(AlI)** | 2.4+06 | 44166.398 | 76521.7 |
| 3 | 324.75 | **(CuI)** | 1.39+08 | - | - |
| 4 | 327.39 | **(CuI)** | 1.37+08 | - | - |
| 5 | 328.03 | **(FeI)** | 5.4+07 | 26627.604 | 57104.22 |
| 6 | 330.12 | **(CuII)** | 5.3-02 | - | - |
| 7 | 334.44 | **(AlIV)** | 2.0-04 | 82408 | 853971 |
| 8 | 358.57 | **(FeI)** | 3.75+06 | 7376.76 | 35257.31 |
| 9 | 359.77 | **(NiI)** | 1.4+07 | 1713.087 | 29500.674 |
| 10 | 360.094 | **(FeIII)** | 3.8 | - | - |
| 11 | 365.39 | **(CrI)** | 4.5+05 | - | - |
| 12 | 368.65 | **(CuII)** | 1.2+07 | - | - |
| 13 | 394.4 | **(AlI)** | 4.93+07 | 0 | 25347.756 |
| 14 | 396.11 | **(FeI)** | 2.3+06 | 23051.742 | 48289.865 |
| 15 | 402.18 | **(FeI)** | 1+07 | 22249.428 | 47106.477 |
| 16 | 406.21 | **(PbI)** | 9.2+07 | - | - |
| 17 | 424.9 | **(CuI)** | 1.97+07 | - | - |
| 18 | 427.48 | **(CrI)** | 3.07+07 | 0 | 23386.35 |
| 19 | 437.76 | **(SiIII)** | 4.14+06 | 204828.06 | 227665.09 |
| 20 | 441.39 | **(CoII)** | 2.7+07 | - | - |
| 21 | 447.98 | **(AlIII)** | 2.4-01 | 167612.75 | 189928.49 |
| 22 | 450.94 | **(CuI)** | 2.75+07 | - | - |
| 23 | 452.99 | **(CrI)** | 1.1+06 | 20519.6 | 42589.25 |
| 24 | 453.97 | **(CuI)** |  |  |  |
| 25 | 458.61 | **(CrI)** |  |  |  |
| 26 | 464.95 | **(CrI)** |  |  |  |
| 27 | 466.19 | **(FeI)** |  |  |  |
| 28 | 467.36 | **(CuII)** |  |  |  |
| 29 | 467.92 | **(FeI)** |  |  |  |
| 30 | 472.15 | **(SiI)** |  |  |  |
| 31 | 480.99 | **(FeI)** |  |  |  |
| 32 | 490.9 | **(CuII)** |  |  |  |
| 33 | 491.1 | **(ZnII)** |  |  |  |
| 34 | 491.77 | **(FeIV)** |  |  |  |