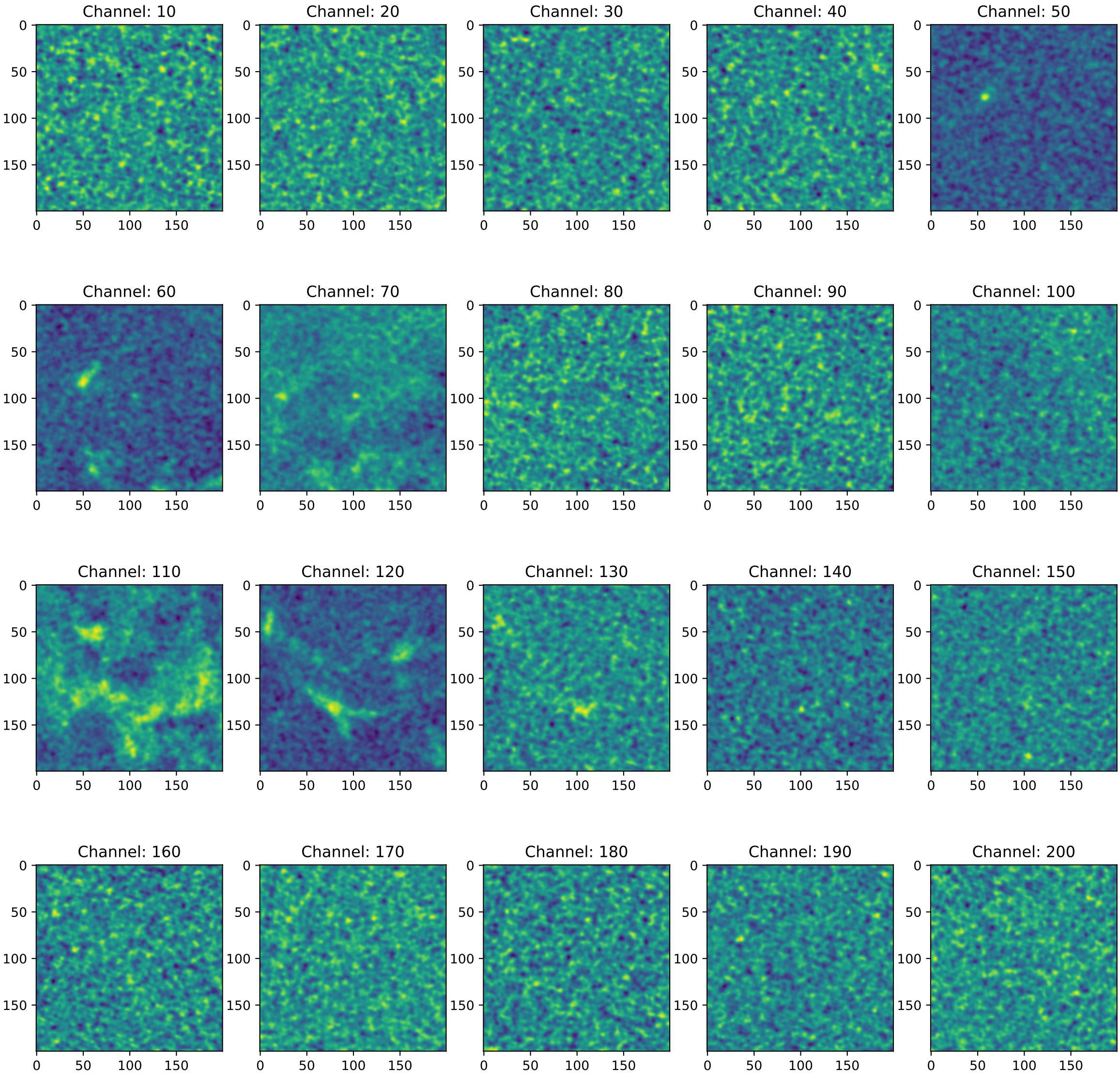
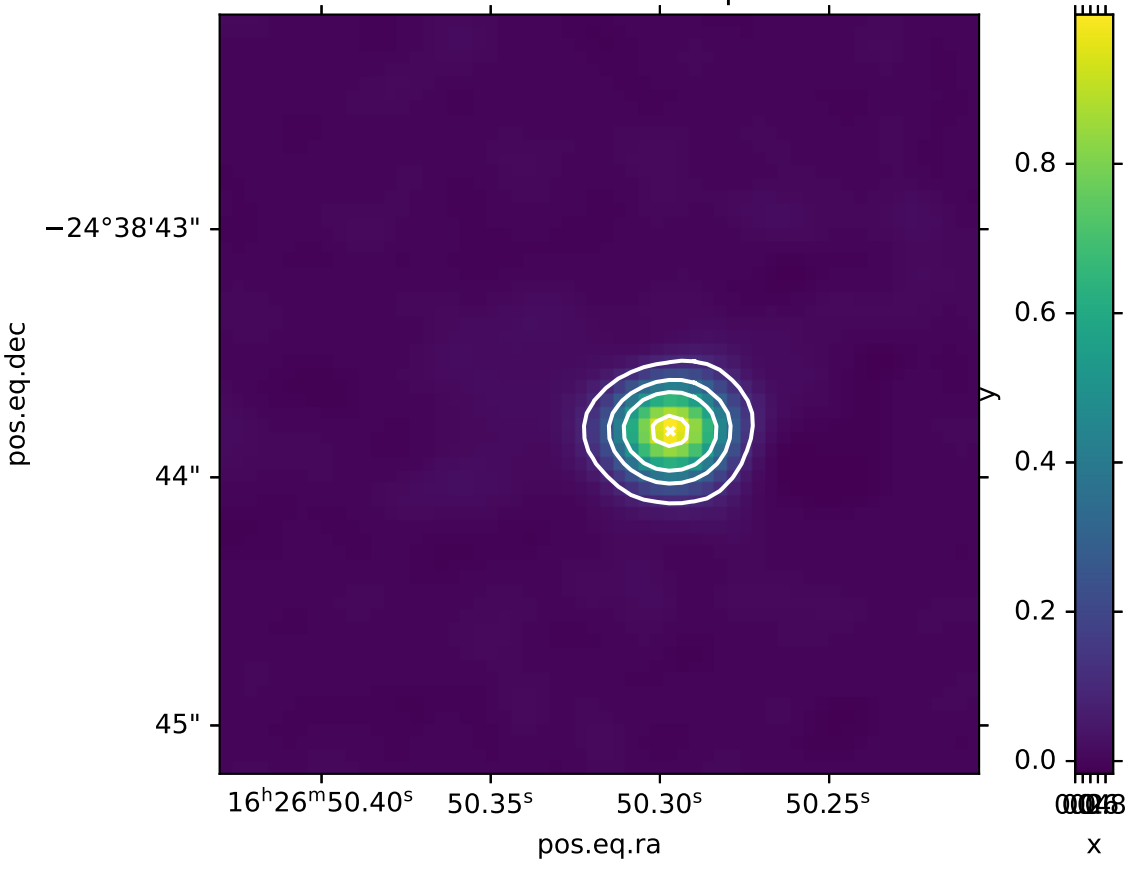
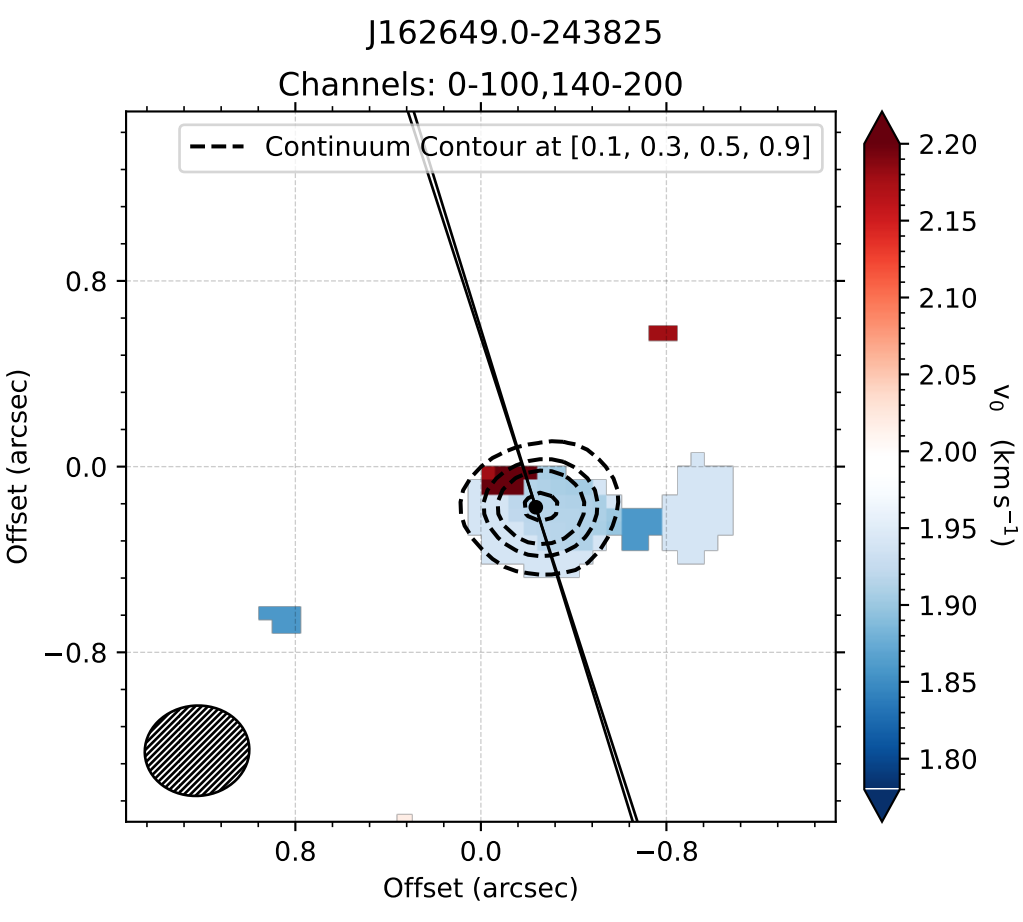
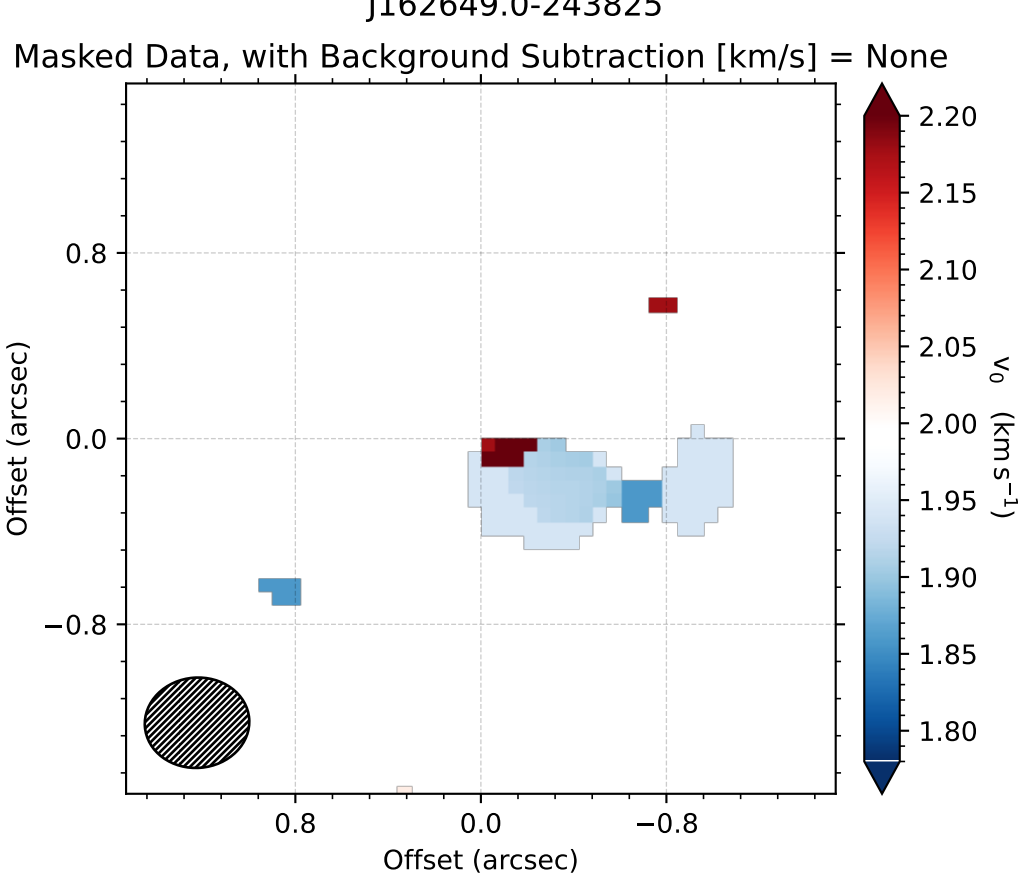
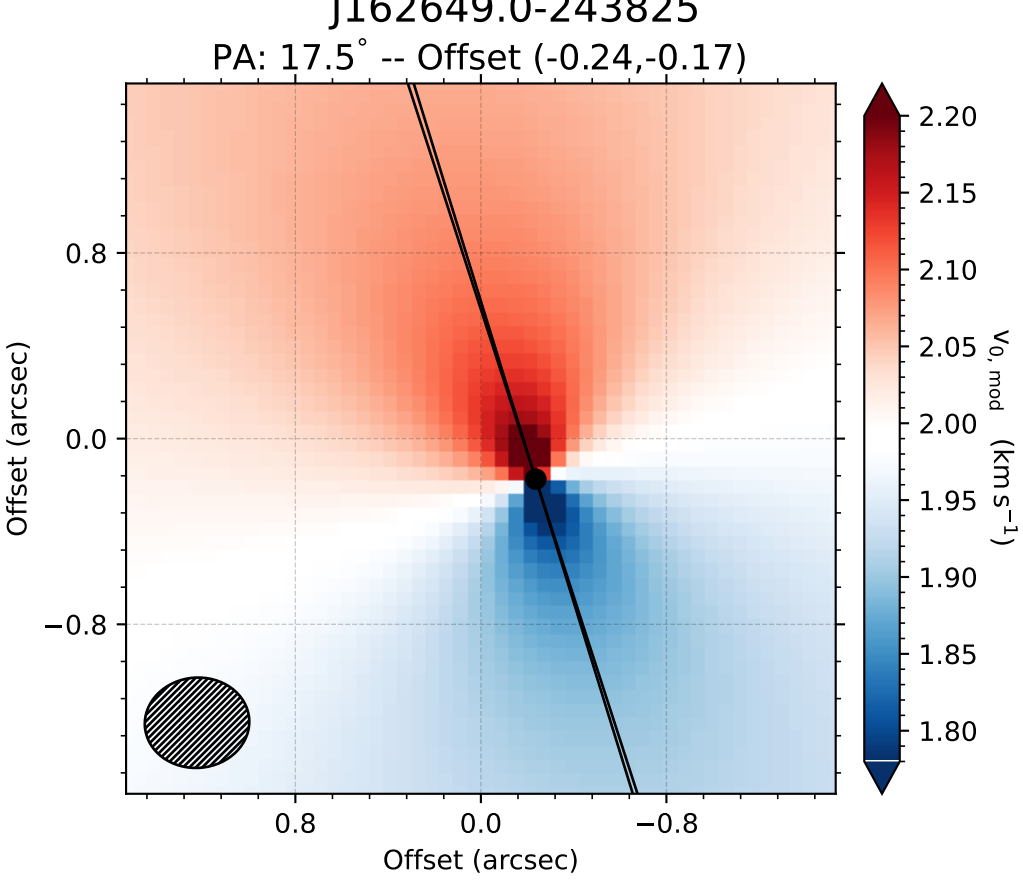
J162649.0-243825, CO

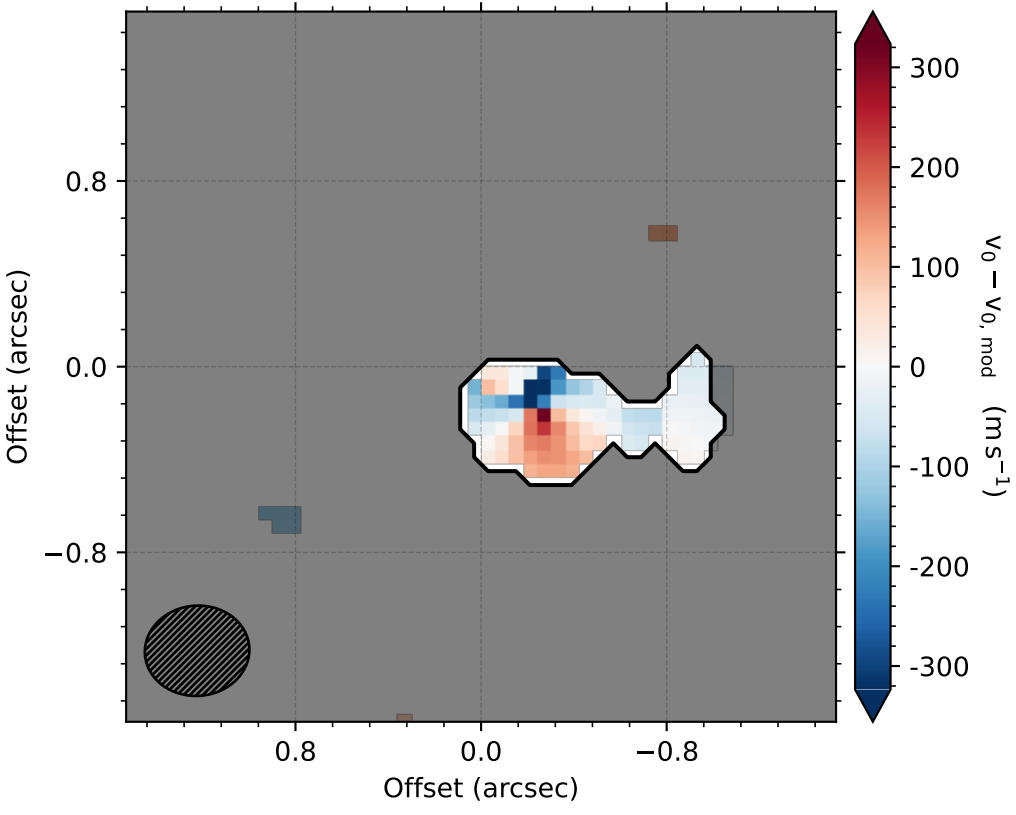


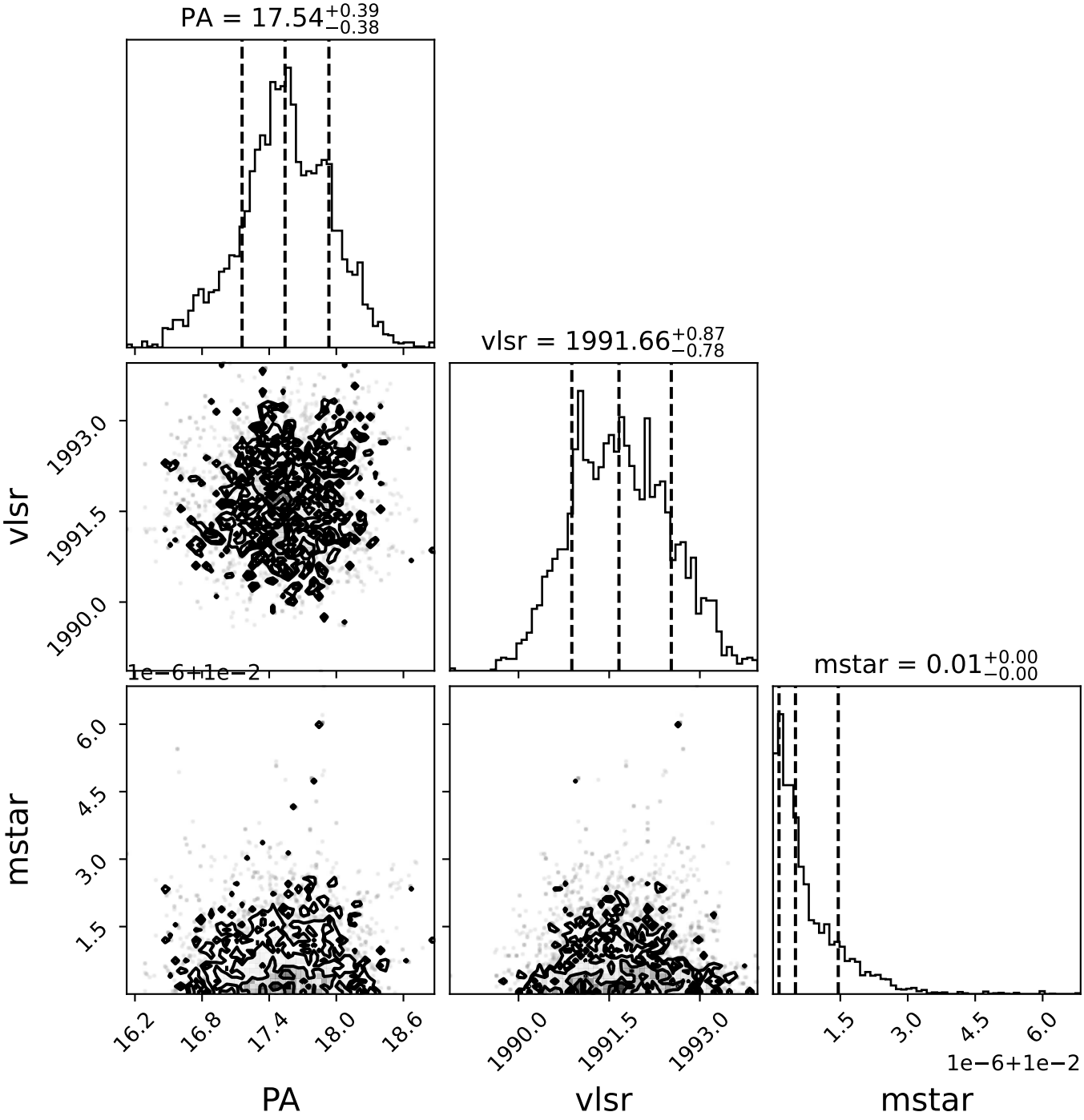

Continuum Stamp
−24°38'43"
44"
45"
pos.eq.dec
16h26m50.40s
50.35s
50.30s
50.25s
pos.eq.ra
y
x
0.8
0.6
0.4
0.2
0.0


J162649.0-243825
Channels: 0-100,140-200
Continuum Contour at [0.1, 0.3, 0.5, 0.9]
0.8
0.0
−0.8
Offset (arcsec)
0.8
0.0
−0.8
Offset (arcsec)
2.20
2.15
2.10
2.05
2.00
1.95
1.90
1.85
1.80
v_0 (km s^{-1})


J162649.0-243825
Masked Data, with Background Subtraction [km/s] = None
0.8
0.0
−0.8
Offset (arcsec)
0.8
0.0
−0.8
Offset (arcsec)
2.20
2.15
2.10
2.05
2.00
1.95
1.90
1.85
1.80
v_0 (km s^{-1})


J162649.0-243825
PA: 17.5° -- Offset (-0.24,-0.17)
0.8
0.0
−0.8
Offset (arcsec)
0.8
0.0
−0.8
Offset (arcsec)
2.20
2.15
2.10
2.05
2.00
1.95
1.90
1.85
1.80
$v_{0,\,mod}$ (km s^{-1})


0.8
0.0
−0.8
Offset (arcsec)
0.8
0.0
−0.8
Offset (arcsec)
300
200
100
0
-100
-200
-300
$v_0 - v_{0,\mathrm{mod}}$ (m s^{-1})


PA = 17.54$^{+0.39}_{-0.38}$
vlsr = 1991.66$^{+0.87}_{-0.78}$
mstar = 0.01$^{+0.00}_{-0.00}$
PA
vlsr
mstar
1e−6+1e−2
1e−6+1e−2

Name: J162649.0-243825

Region: ROph

File: /Users/calebpainter/Downloads/DECO/fits_files/ROph/J162649.0-243825_CO_230.538GHz.image.fits

Emmision Line: CO

Channels: (0, 100, 140, 200)

X-pos: 246.70406

Y-pos: -24.640489

X-offset: -0.237

Y-offset: -0.175

Literature PA: 83.4

Eddy PA: 17.54

Literature Mass [M]: 0.292

Eddy Mass [M]: 0.01

DECO Dict vsys [km/s]: 4.7

Eddy vlsr [m/s]: 1.99

Literature Inc: 22.12

Eddy Inc: --

Literature Distance [Mpc]: 132.51

Eddy rmin, rmax ["]: (0, 0.8)

Eddy params (nwalkers, nburn, nsteps): (10, 800, 500)

Velocity Mask: None

Background Velocity Removal: None

Notes: MCMC FAILS, no clear signature of blue/red components