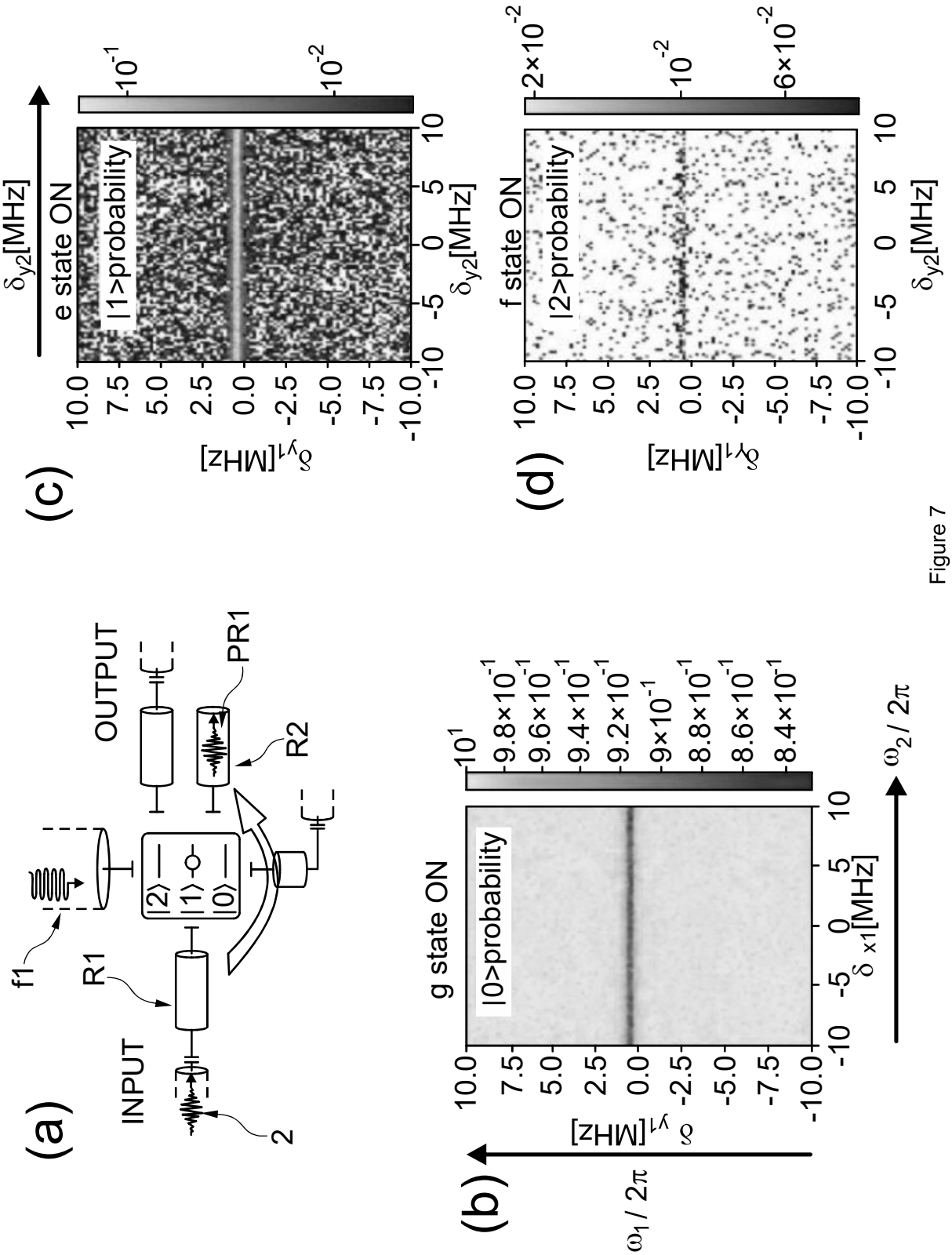
(a)
INPUT
OUTPUT
R1
R2
PR1
f1
2
|0⟩
|1⟩
|2⟩
(b)
g state ON
|0>probability
$\omega_1 / 2\pi$
δ_{y1}[MHz]
$\omega_2 / 2\pi$
δ_{x1}[MHz]
(c)
e state ON
|1>probability
δ_{y2}[MHz]
δ_{y1}[MHz]
(d)
f state ON
|2>probability
δ_{y2}[MHz]
δ_{y1}[MHz]

Figure 7

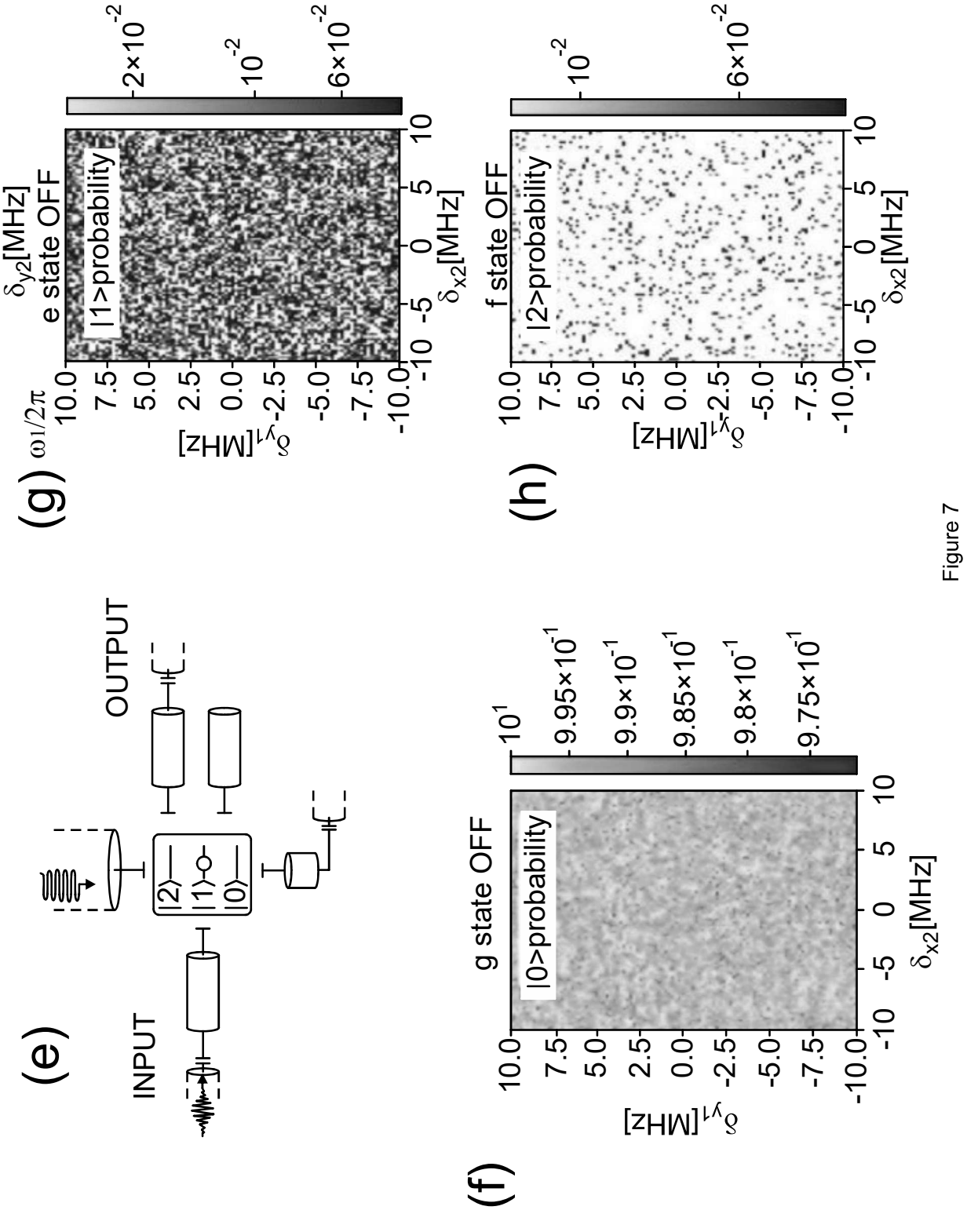
(g)
(h)
(e)
(f)
e state OFF
f state OFF
g state OFF
|1>probability
|2>probability
|0>probability
INPUT
OUTPUT
|2⟩
|1⟩
|0⟩
δy2[MHz]
δx2[MHz]
δy1[MHz]
ω1/2π
2×10-2
10-2
6×10-2
9.95×10-1
9.9×10-1
9.85×10-1
9.8×10-1
9.75×10-1
10.0
7.5
5.0
2.5
0.0
-2.5
-5.0
-7.5
-10.0
10
5
0
-5
-10

Figure 7

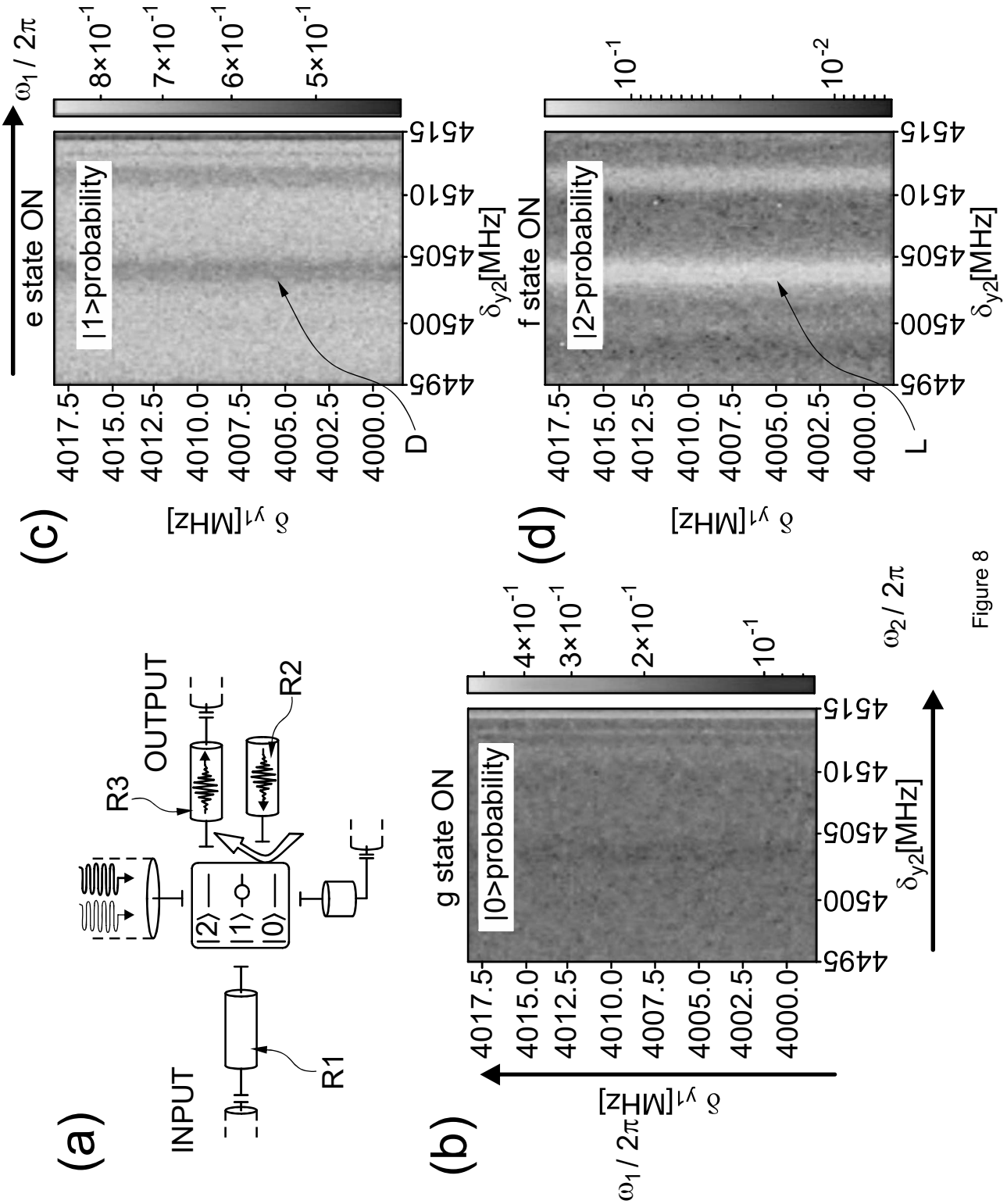
(a)
INPUT
R1
R2
R3
OUTPUT
|2⟩
|1⟩
|0⟩
(b)
g state ON
|0>probability
$\omega_1 / 2\pi$
δ_{y1}[MHz]
$\omega_2 / 2\pi$
δ_{y2}[MHz]
4017.5
4015.0
4012.5
4010.0
4007.5
4005.0
4002.5
4000.0
4495
4500
4505
4510
4515
4×10^{-1}
3×10^{-1}
2×10^{-1}
10^{-1}
(c)
e state ON
|1>probability
D
8×10^{-1}
7×10^{-1}
6×10^{-1}
5×10^{-1}
(d)
f state ON
|2>probability
L
10^{-1}
10^{-2}

Figure 8

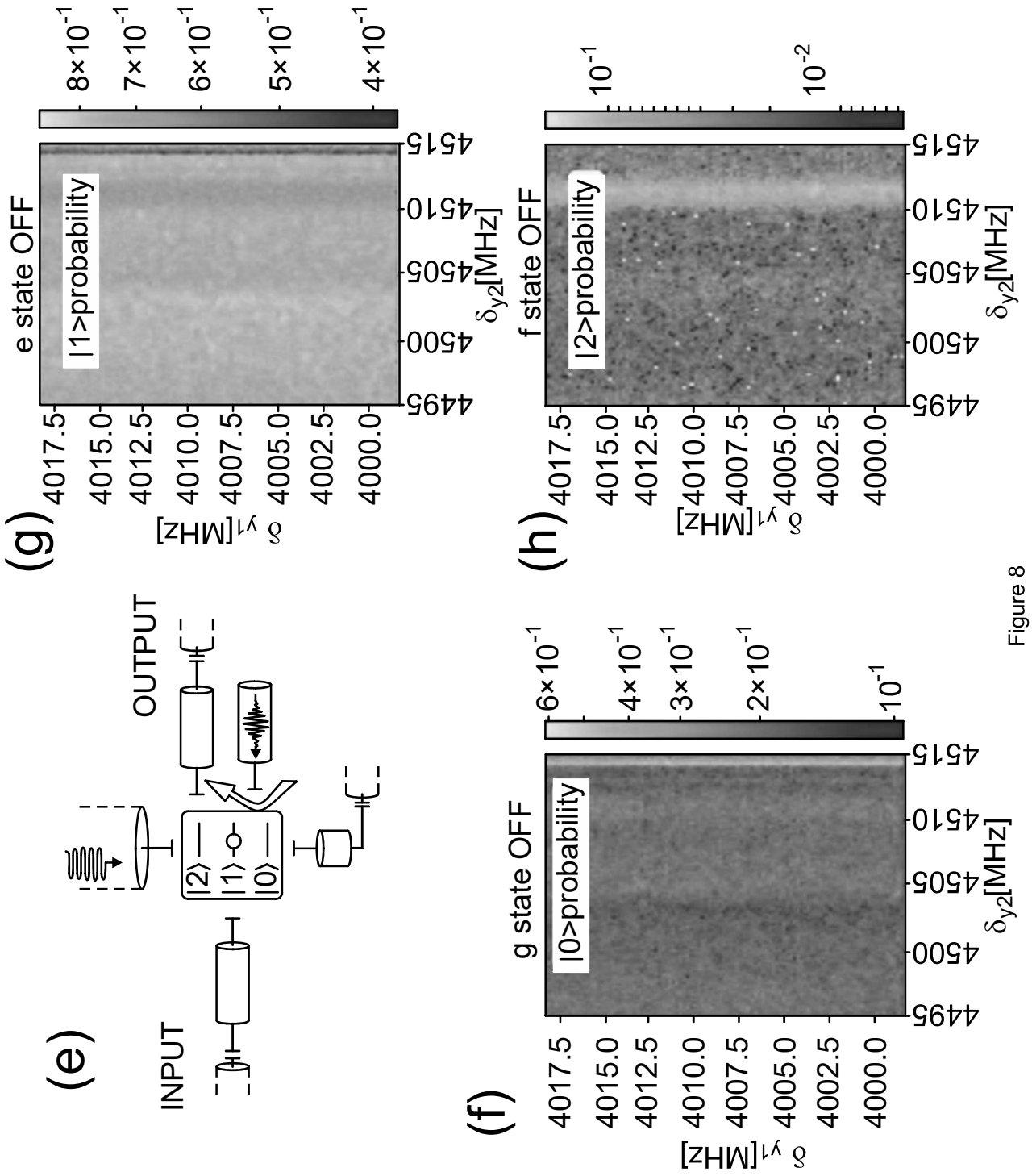
(e)
INPUT
OUTPUT
|2⟩
|1⟩
|0⟩
(g)
e state OFF
|1>probability
8×10^-1
7×10^-1
6×10^-1
5×10^-1
4×10^-1
δ y1[MHz]
δy2[MHz]
(h)
f state OFF
|2>probability
10^-1
10^-2
(f)
g state OFF
|0>probability
6×10^-1
4×10^-1
3×10^-1
2×10^-1
10^-1
4017.5
4015.0
4012.5
4010.0
4007.5
4005.0
4002.5
4000.0
4495
4500
4505
4510
4515

Figure 8

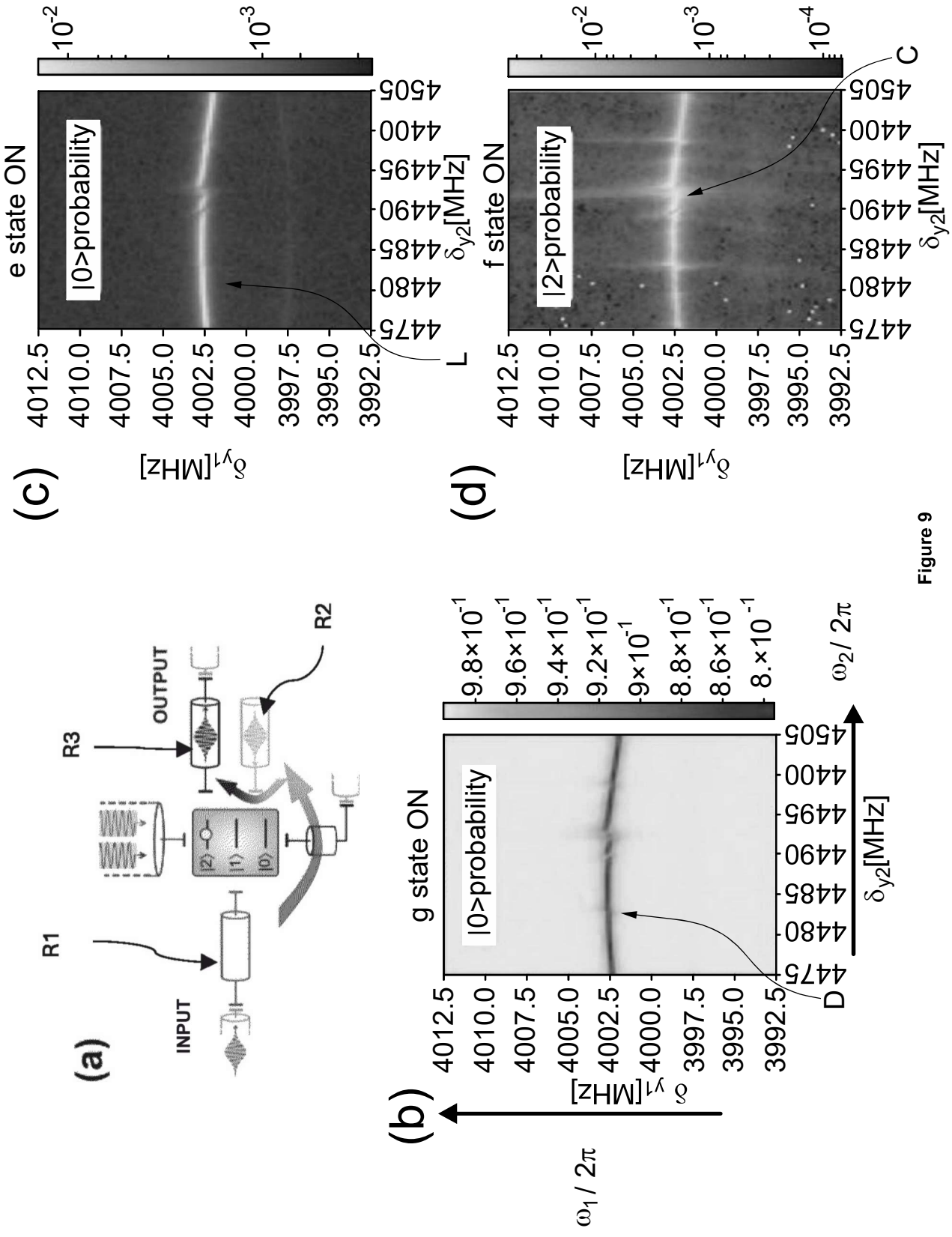
(a)
INPUT
R1
R3
OUTPUT
R2
(b)
g state ON
|0>probability
D
$\omega_1 / 2\pi$
δ_{y1}[MHz]
$\omega_2 / 2\pi$
δ_{y2}[MHz]
(c)
e state ON
|0>probability
L
(d)
f state ON
|2>probability
C

Figure 9

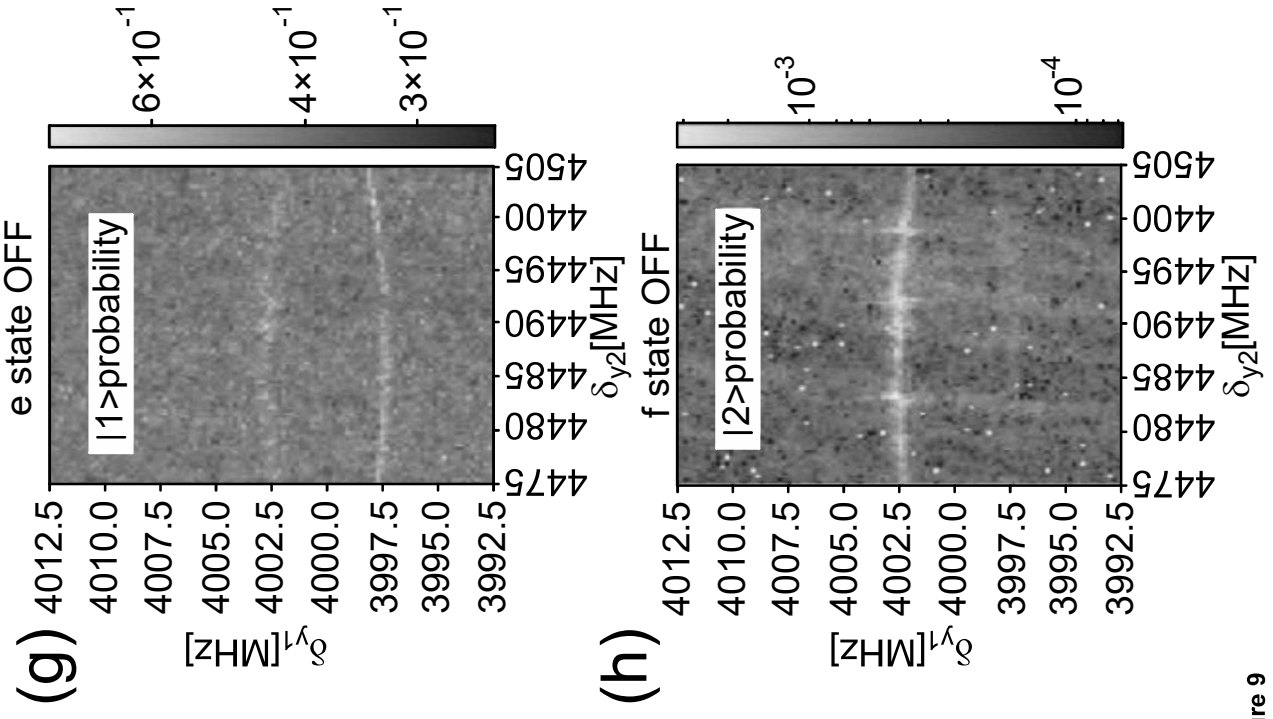

Figure 9

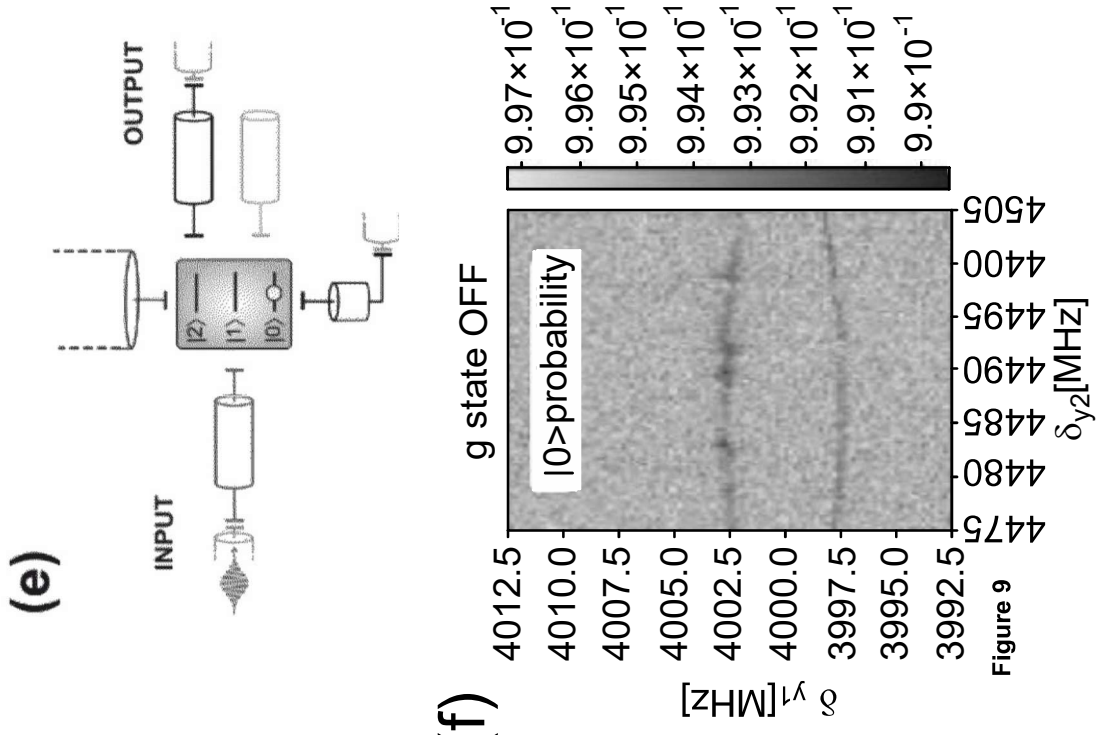

Figure 9