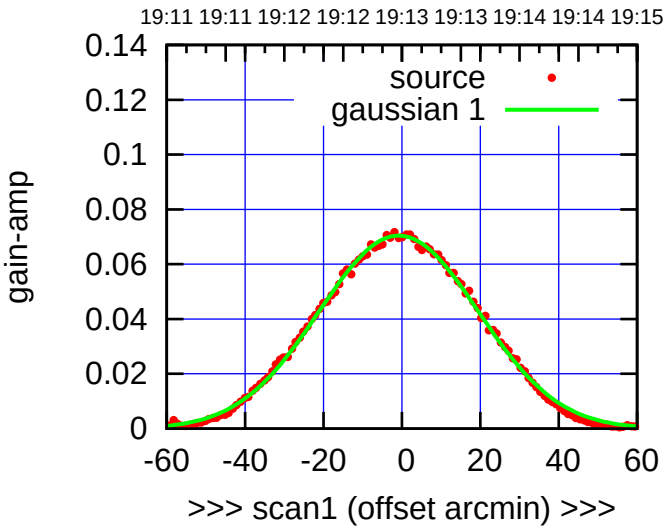
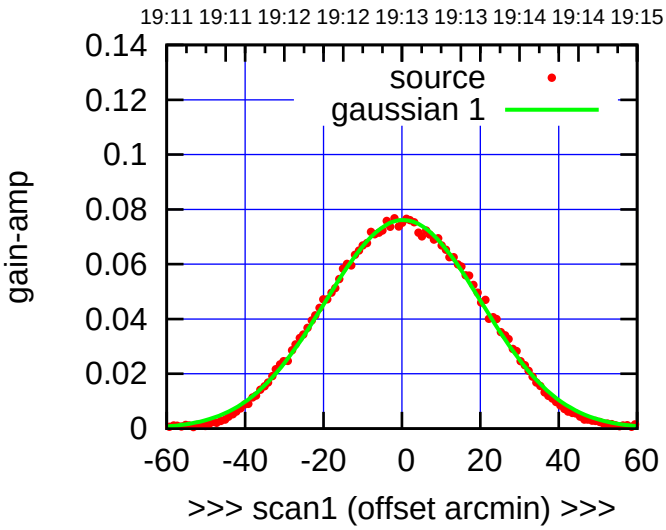
C00-130-AZ OFF= -0.8’

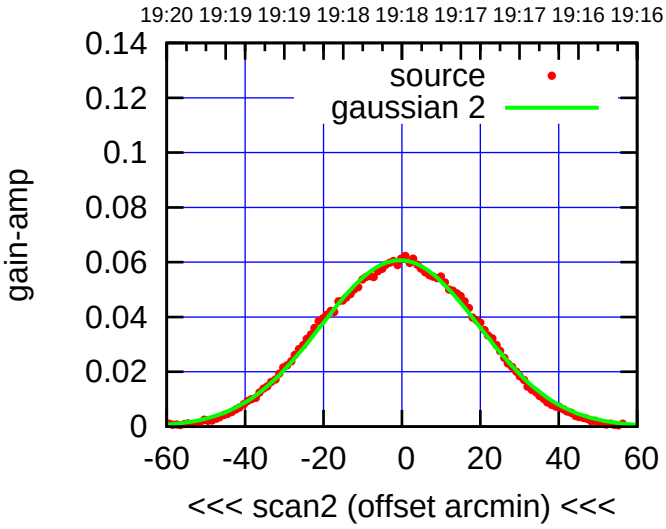


C00-175-AZ OFF= 0.3’

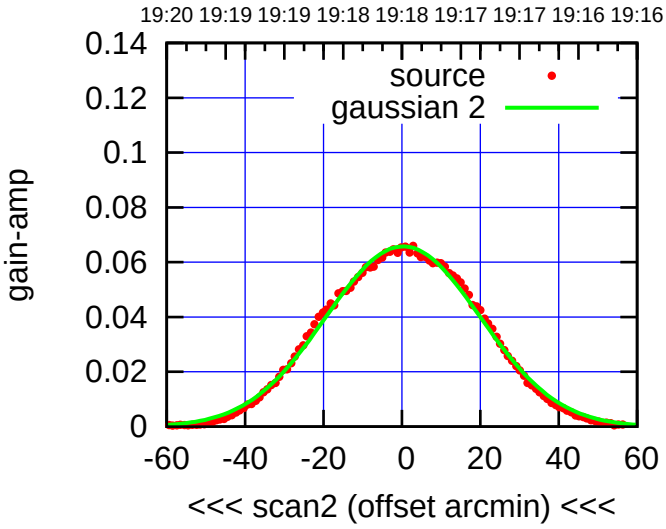


(+30’/m) 24mar2016 19:13

C00-130-AZ OFF= -0.5’

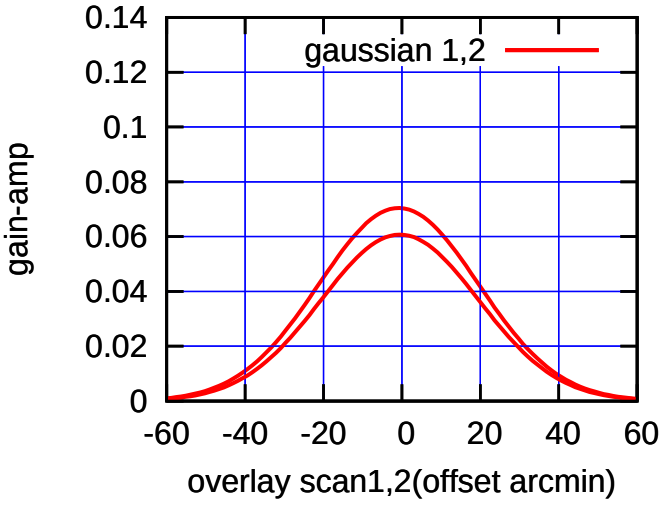


C00-175-AZ OFF= 0.3’

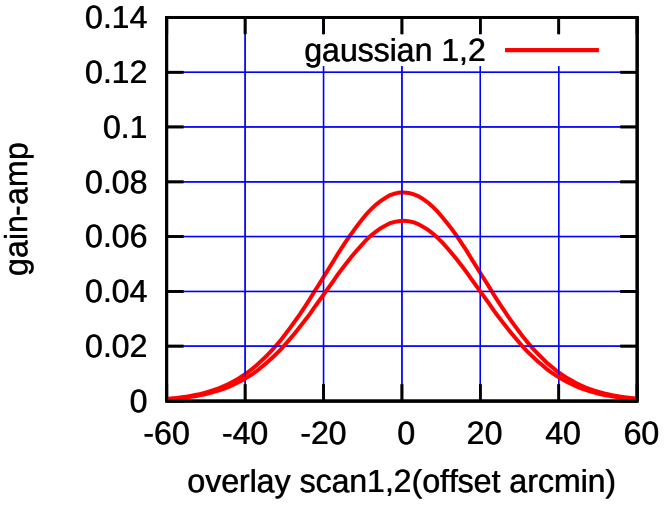


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.3’

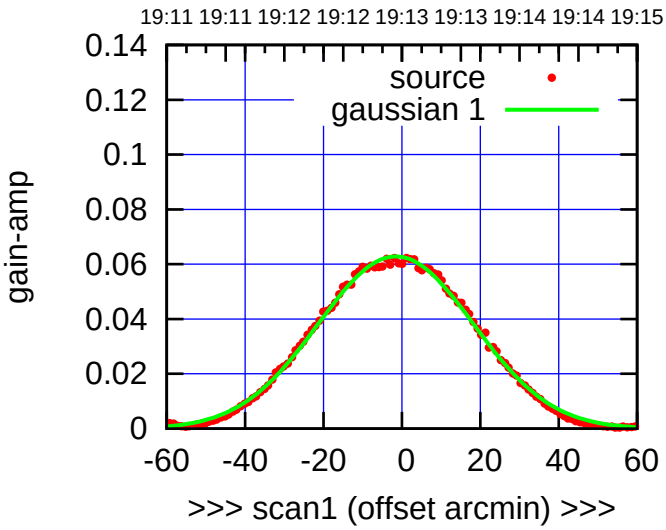


BACKLASH ERROR= 0.0’

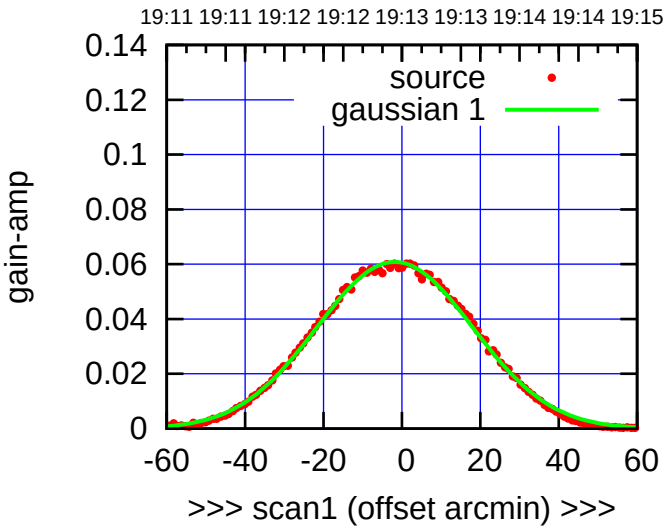


(591 MHz.)

C01-130-AZ OFF= -1.6’

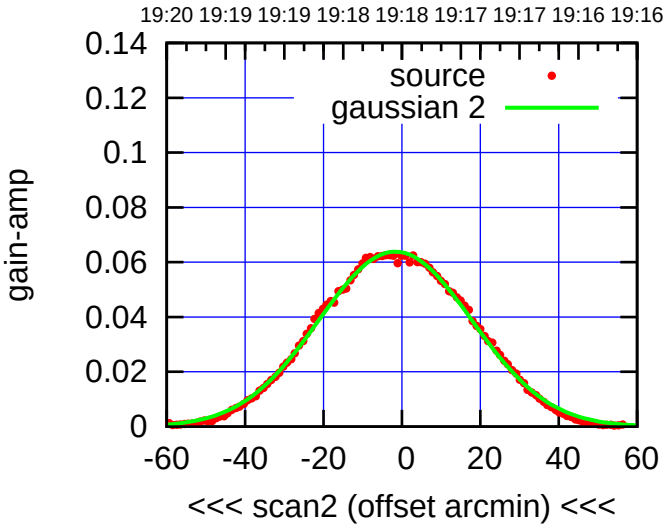


C01-175-AZ OFF= -1.8’

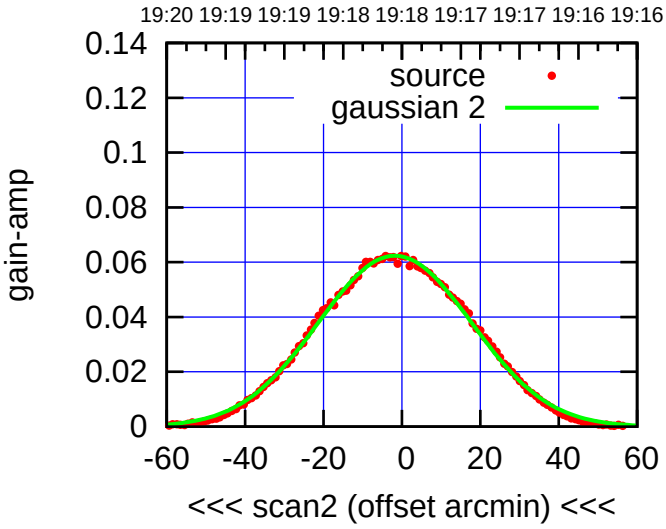


(+30’/m) 24mar2016 19:13

C01-130-AZ OFF= -1.7’

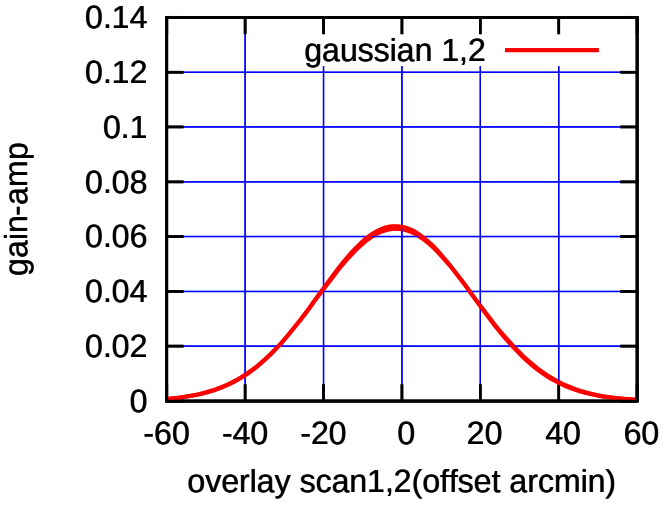


C01-175-AZ OFF= -1.8’

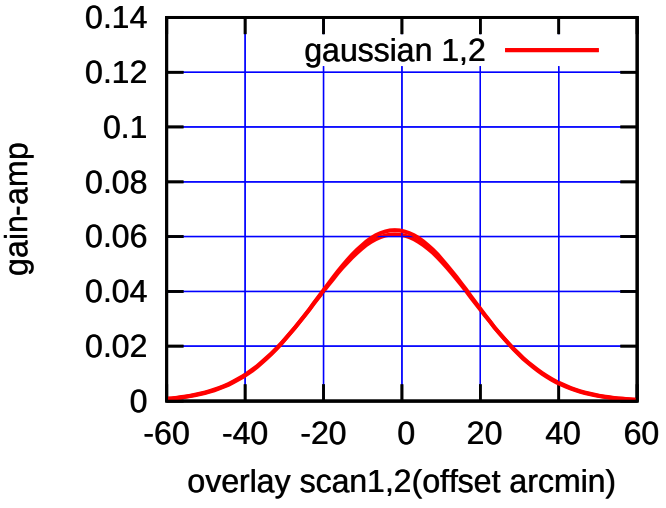


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.1’

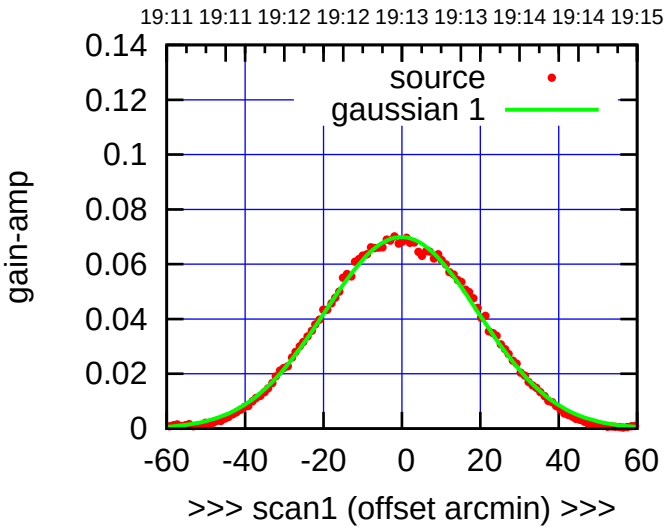


BACKLASH ERROR= 0.0’

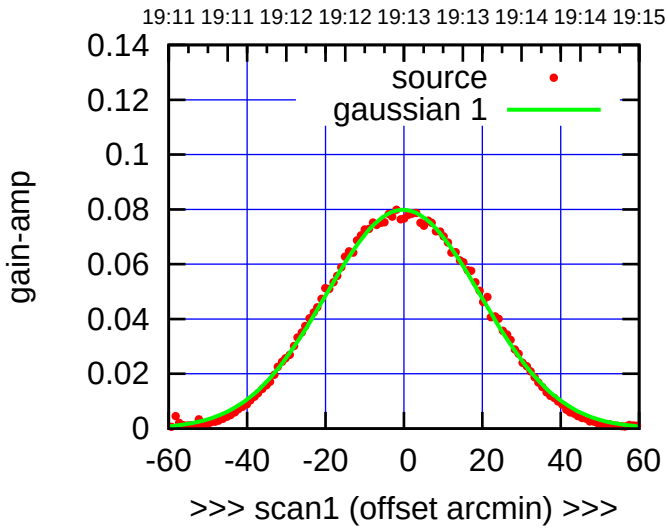


(591 MHz.)

C02-130-AZ OFF= -0.1’

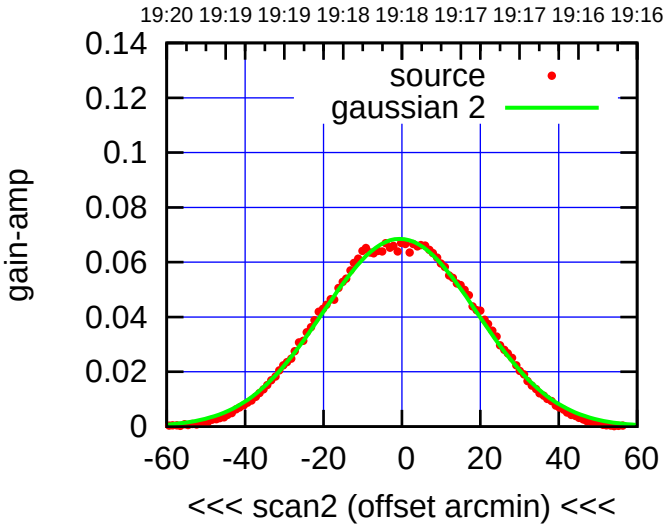


C02-175-AZ OFF= -0.2’

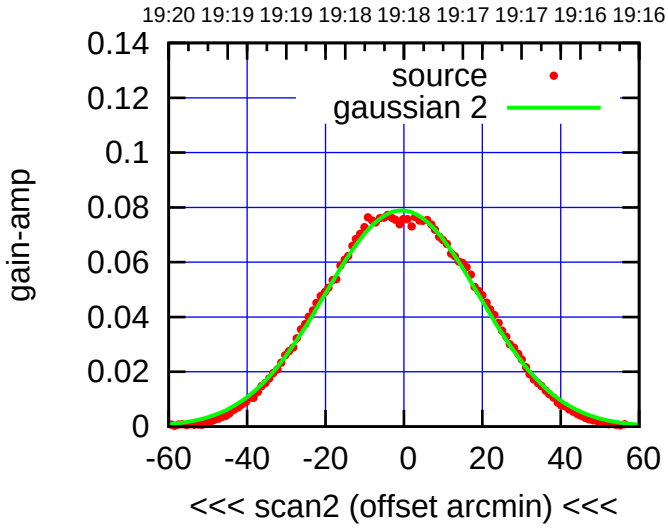


(+30’/m) 24mar2016 19:13

C02-130-AZ OFF= -0.5’

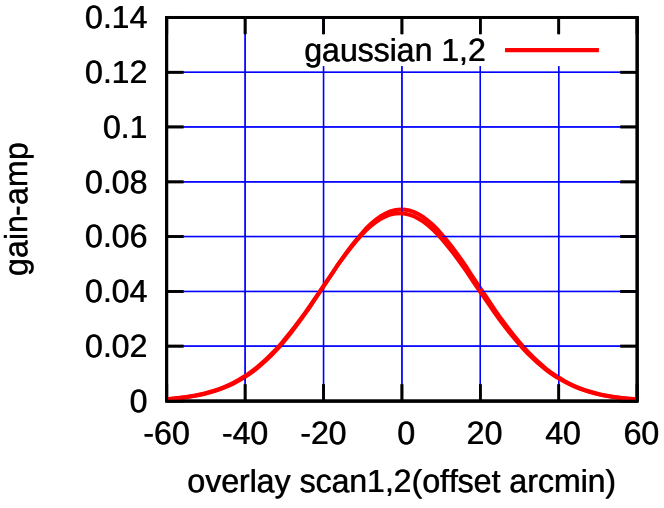


C02-175-AZ OFF= -0.6’

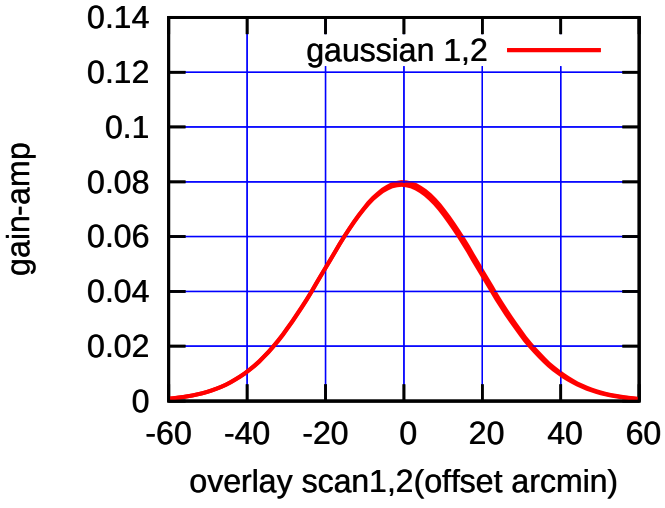


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.4’

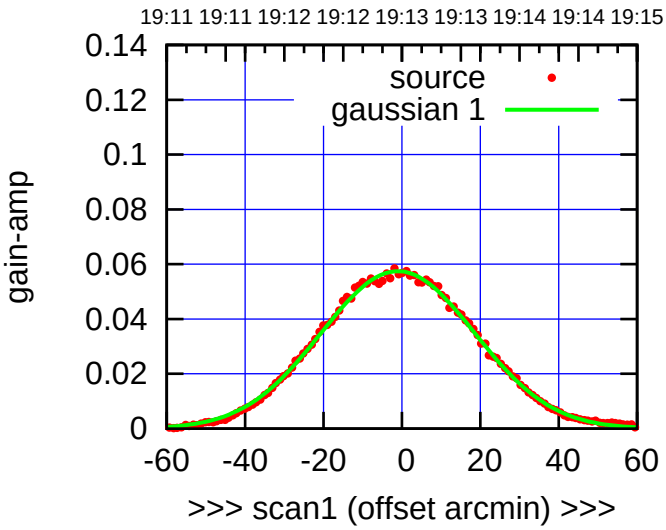


BACKLASH ERROR= 0.4’

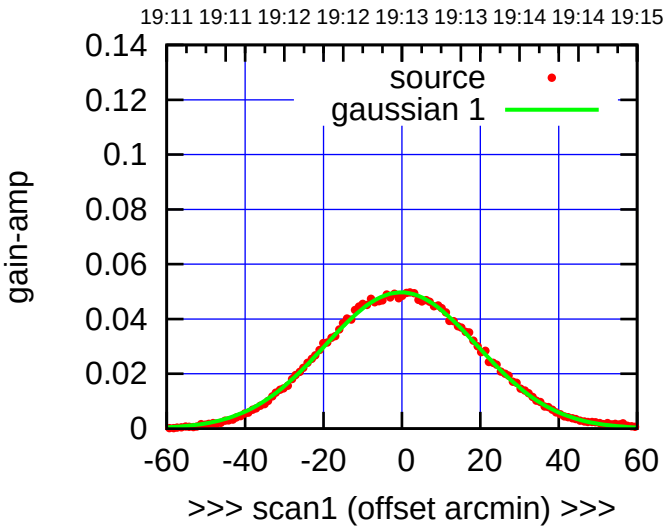


(591 MHz.)

C03-130-AZ OFF= -1.0’

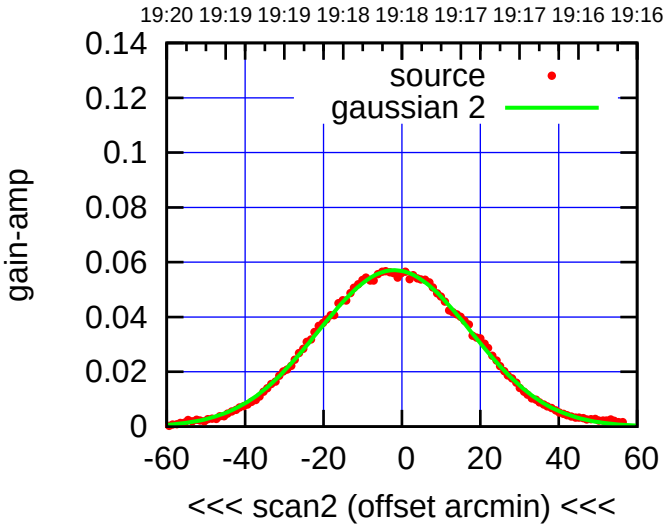


C03-175-AZ OFF= -0.2’

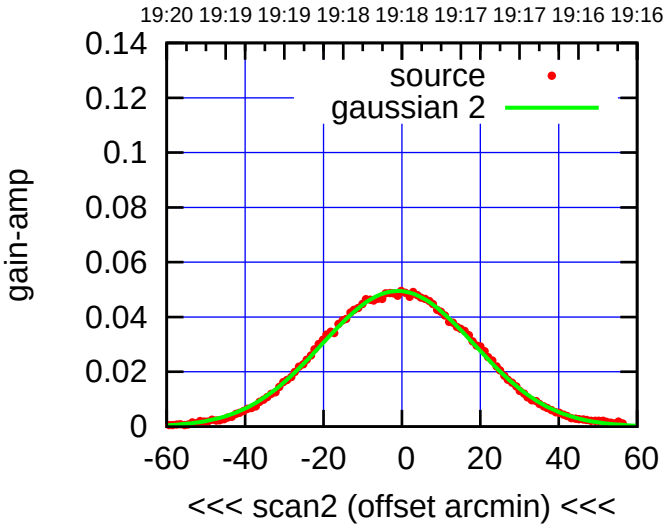


(+30’/m) 24mar2016 19:13

C03-130-AZ OFF= -1.9’

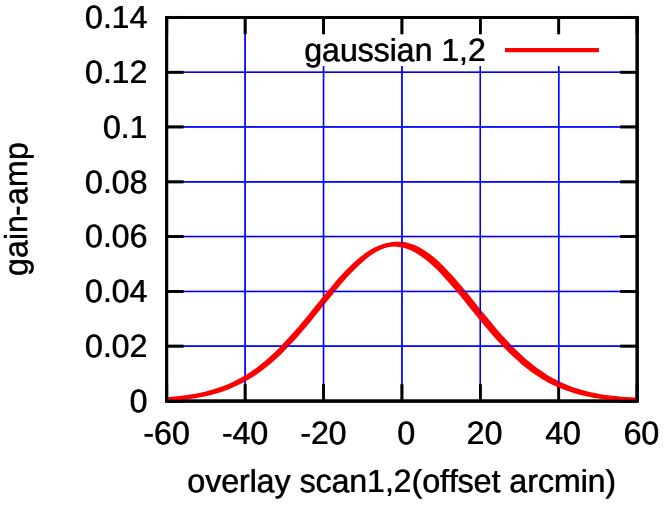


C03-175-AZ OFF= -1.0’

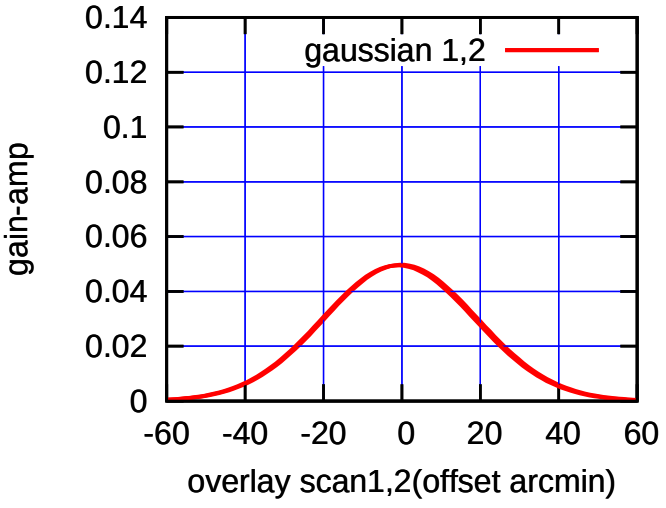


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 1.0’

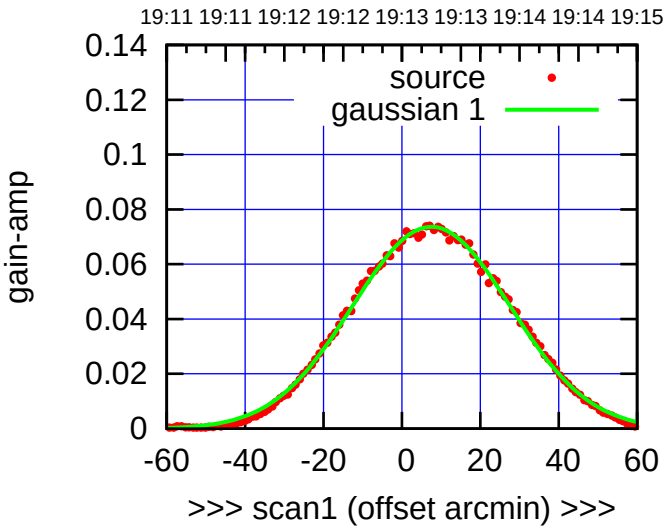


BACKLASH ERROR= 0.9’

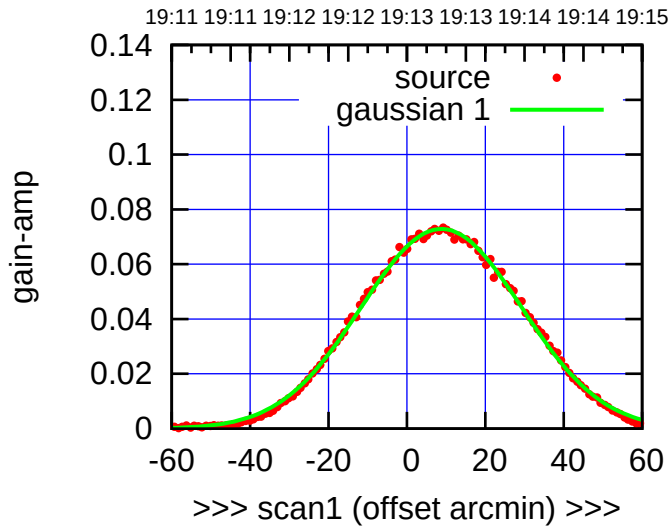


(591 MHz.)

C04-130-AZ OFF= 7.5’

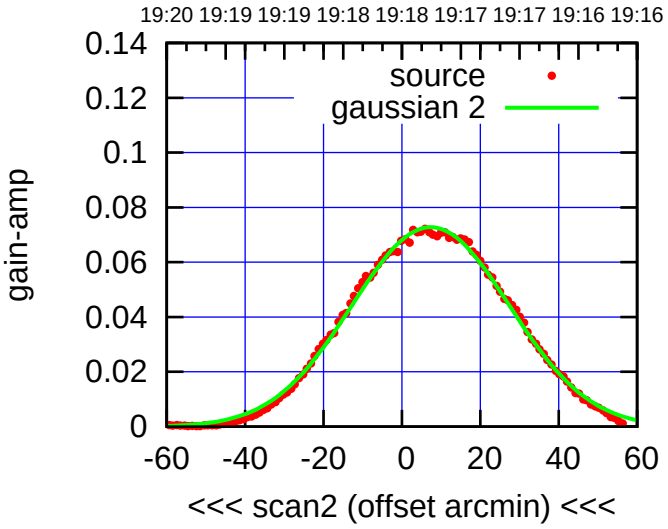


C04-175-AZ OFF= 8.8’

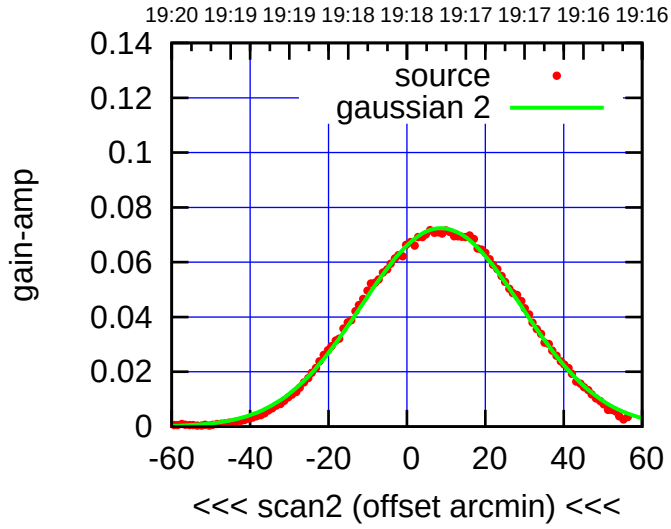


(+30’/m) 24mar2016 19:13

C04-130-AZ OFF= 7.3’

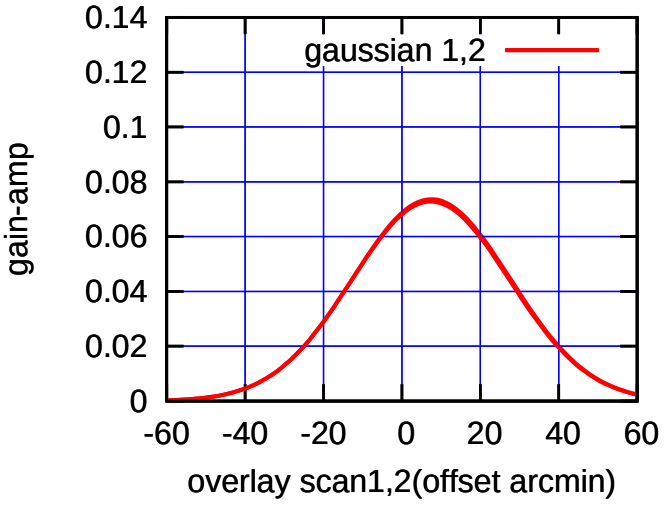


C04-175-AZ OFF= 8.7’

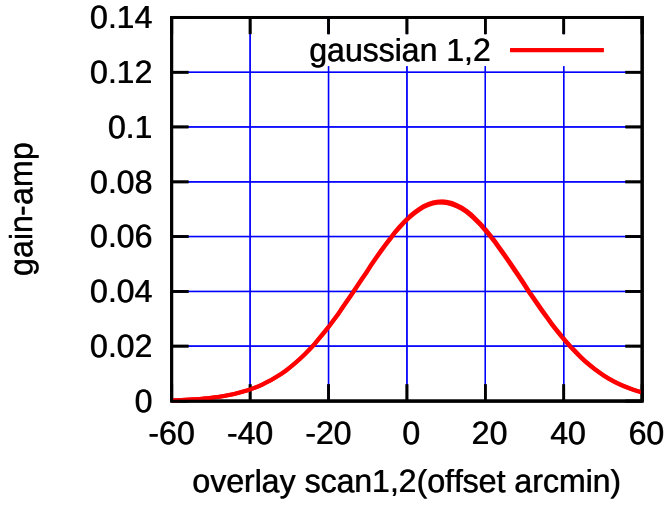


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.2’

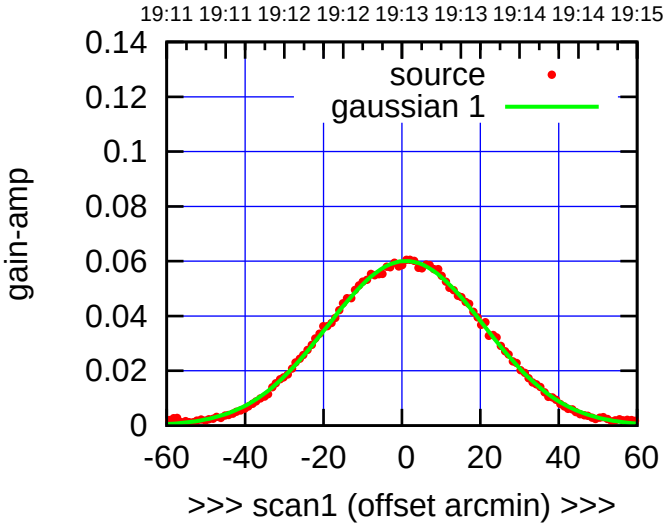


BACKLASH ERROR= 0.1’

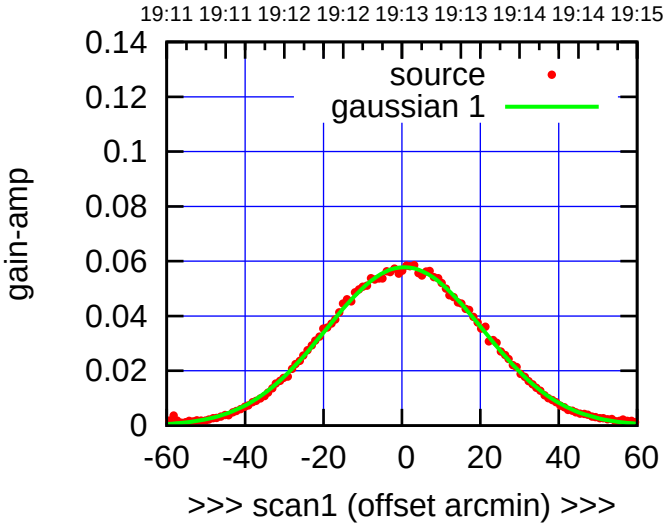


(591 MHz.)

C05-130-AZ OFF= 1.0’

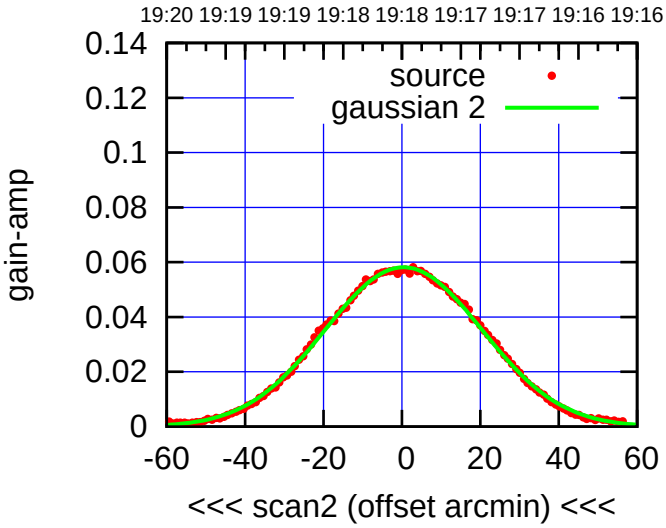


C05-175-AZ OFF= 0.6’

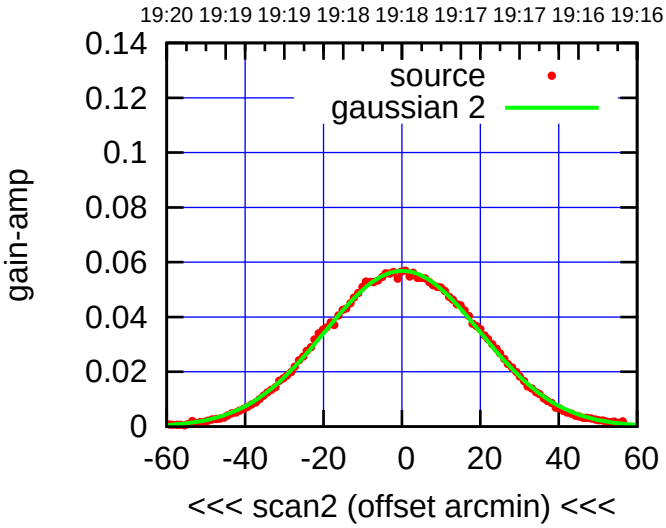


(+30’/m) 24mar2016 19:13

C05-130-AZ OFF= 0.4’

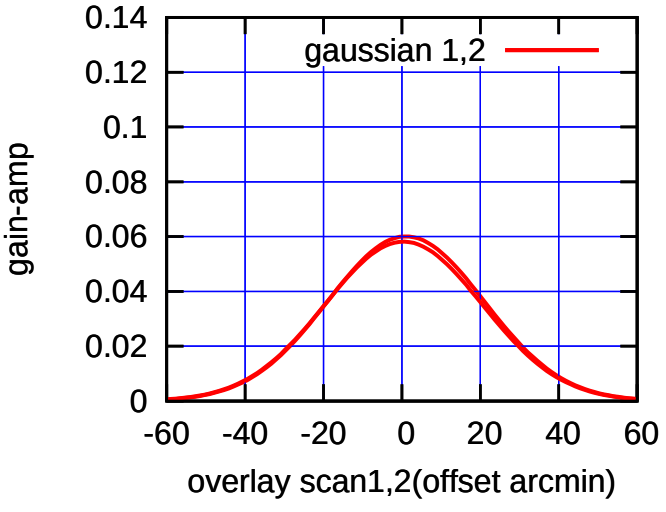


C05-175-AZ OFF= 0.1’

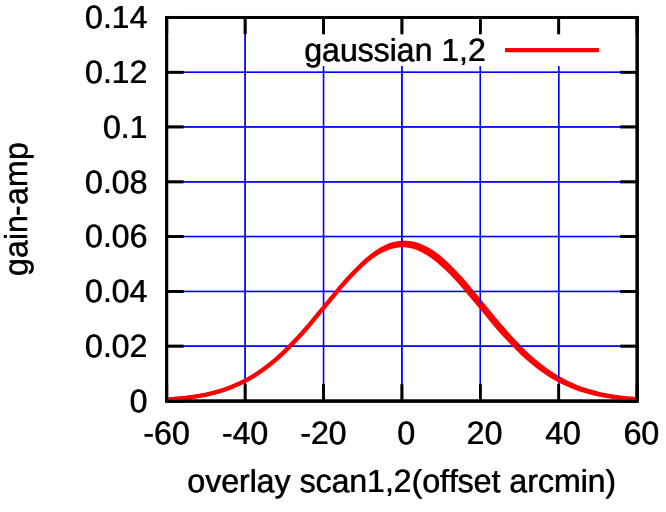


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.6’

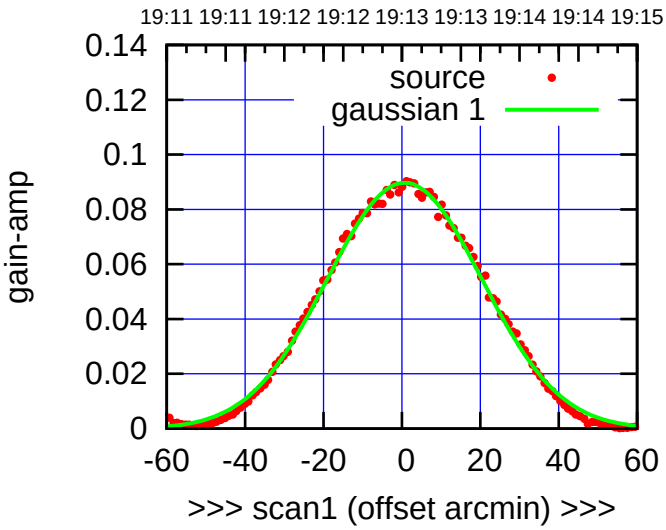


BACKLASH ERROR= 0.5’

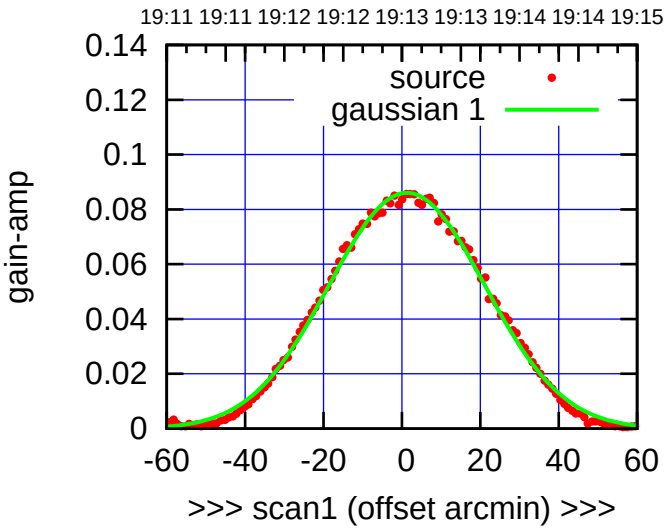


(591 MHz.)

C06-130-AZ OFF= 0.7’

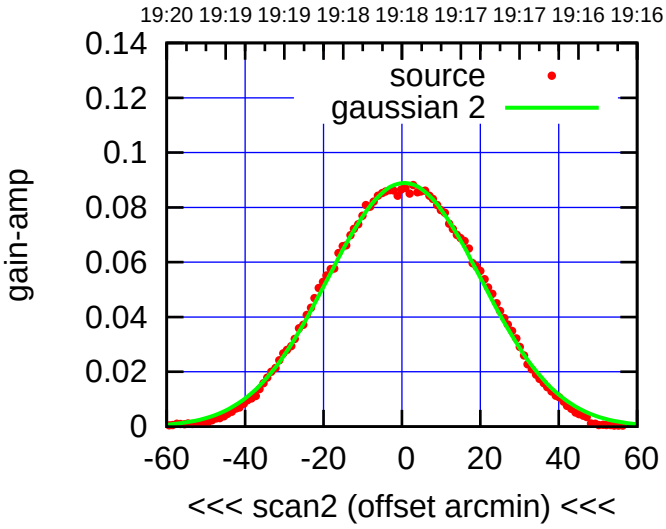


C06-175-AZ OFF= 1.3’

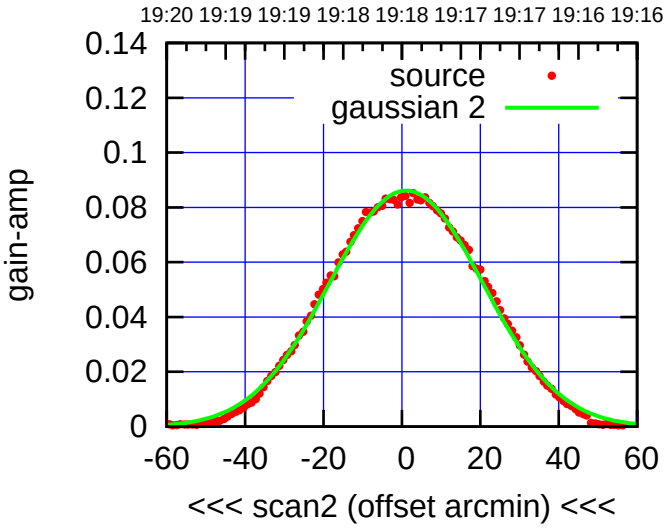


(+30’/m) 24mar2016 19:13

C06-130-AZ OFF= 0.6’

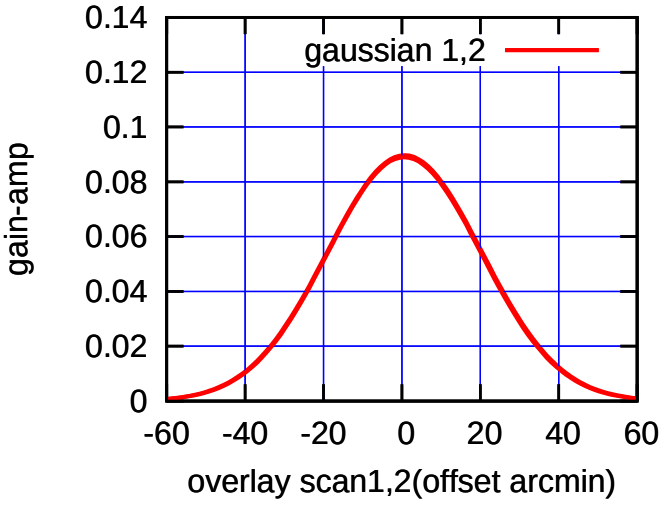


C06-175-AZ OFF= 1.1’

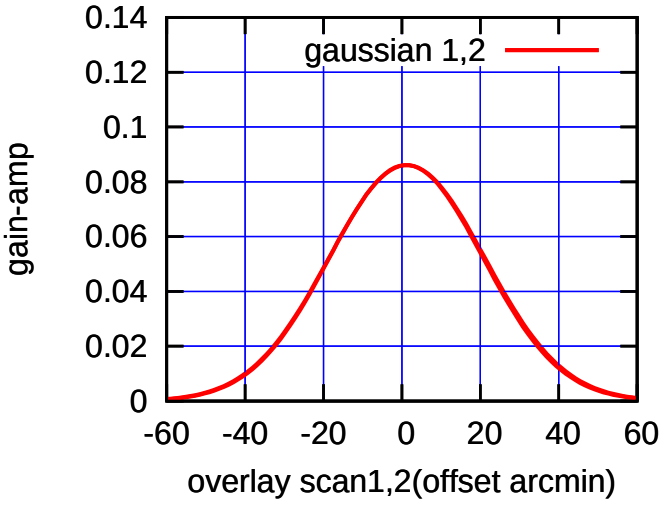


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.1’

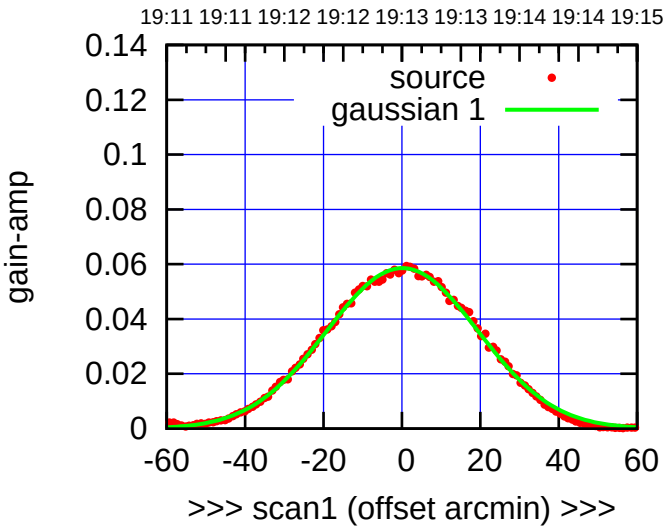


BACKLASH ERROR= 0.2’

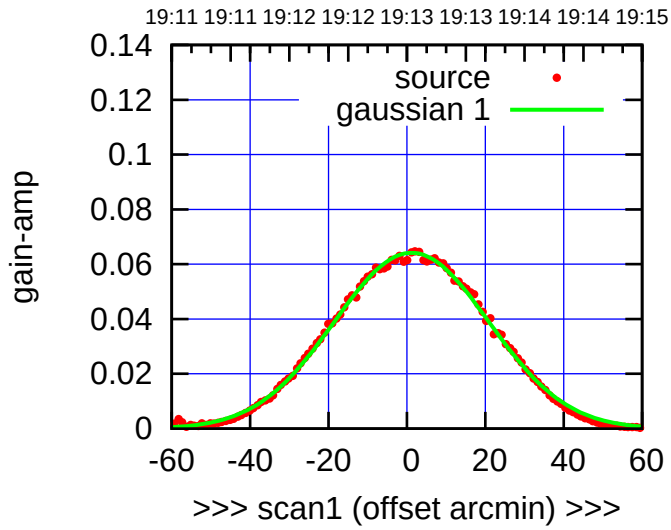


(591 MHz.)

C08-130-AZ OFF= 0.1’

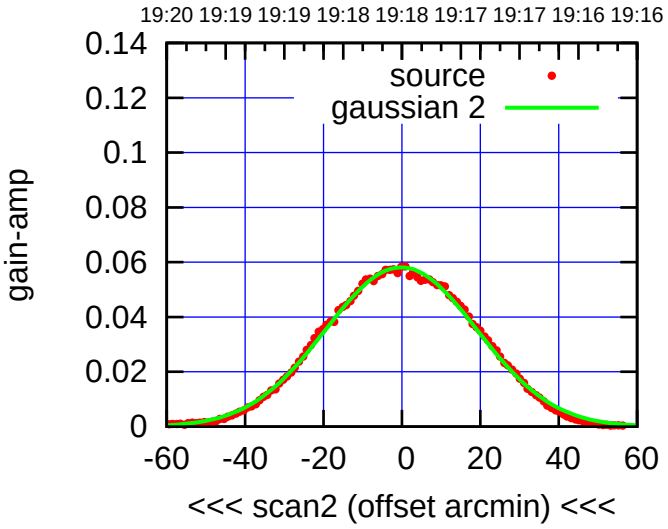


C08-175-AZ OFF= 1.2’

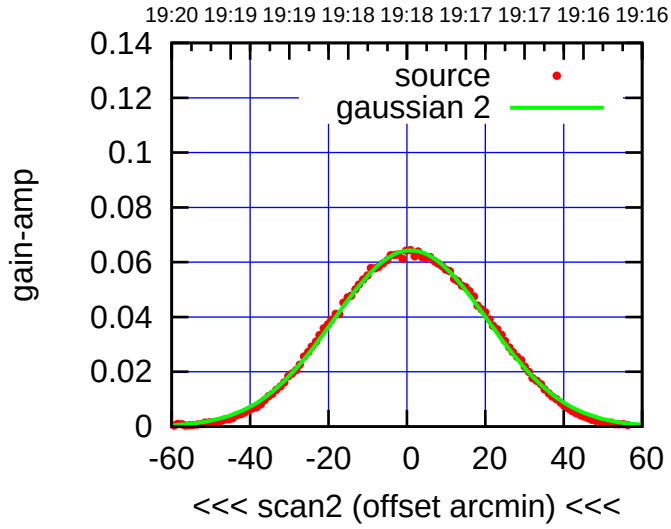


(+30’/m) 24mar2016 19:13

C08-130-AZ OFF= -0.2’

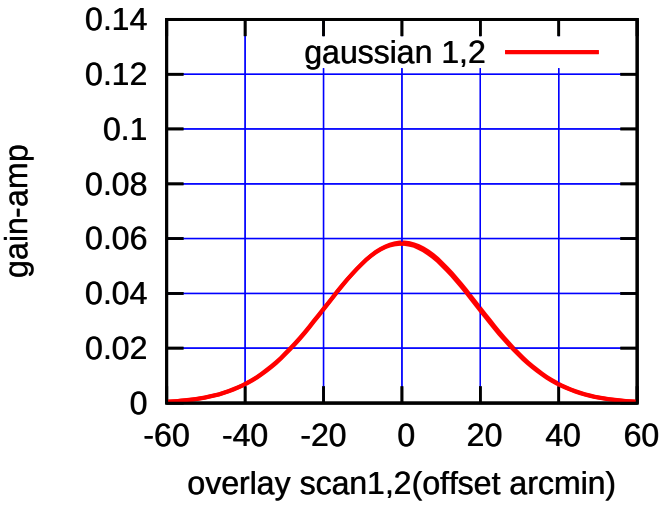


C08-175-AZ OFF= 0.9’

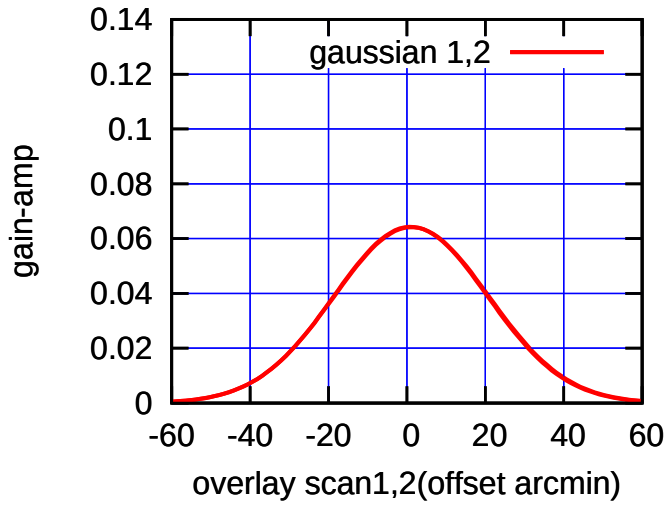


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.3’

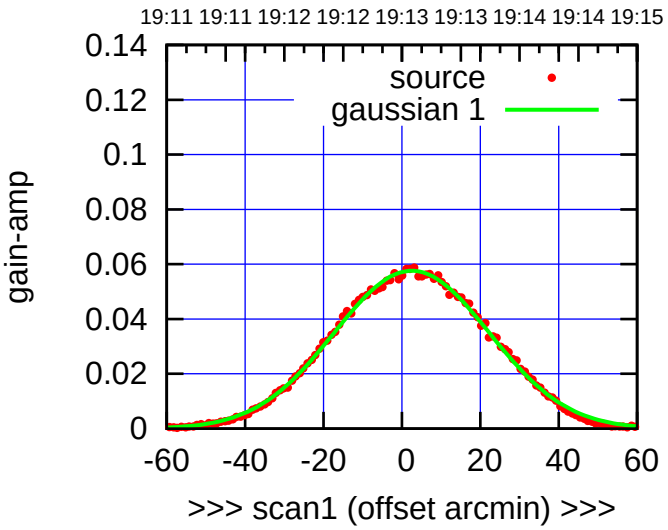


BACKLASH ERROR= 0.3’

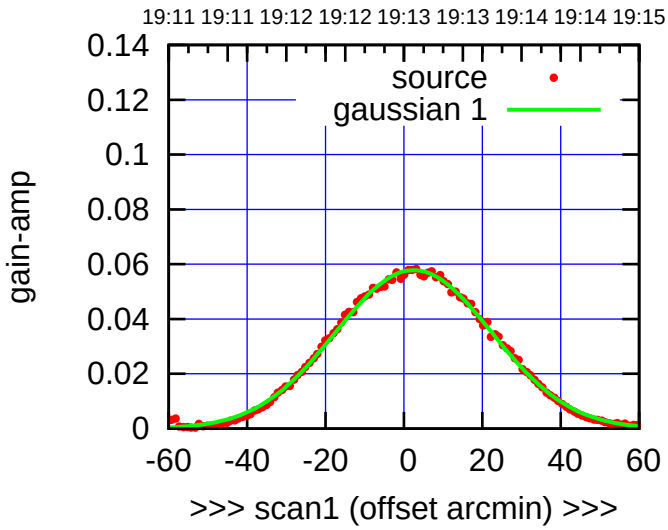


(591 MHz.)

C09-130-AZ OFF= 2.5’

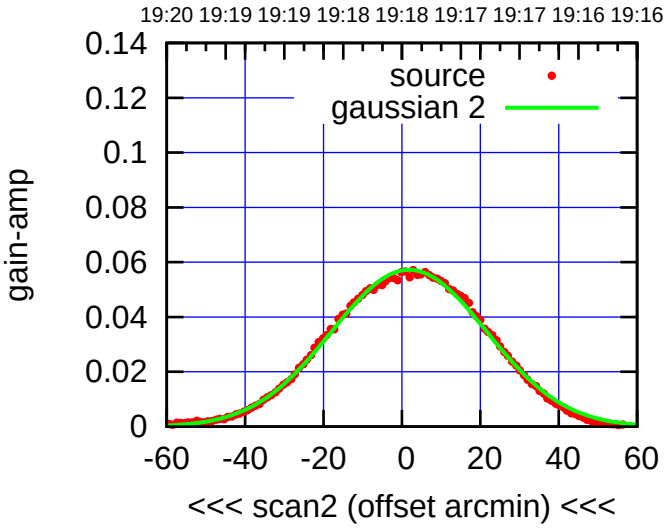


C09-175-AZ OFF= 2.5’

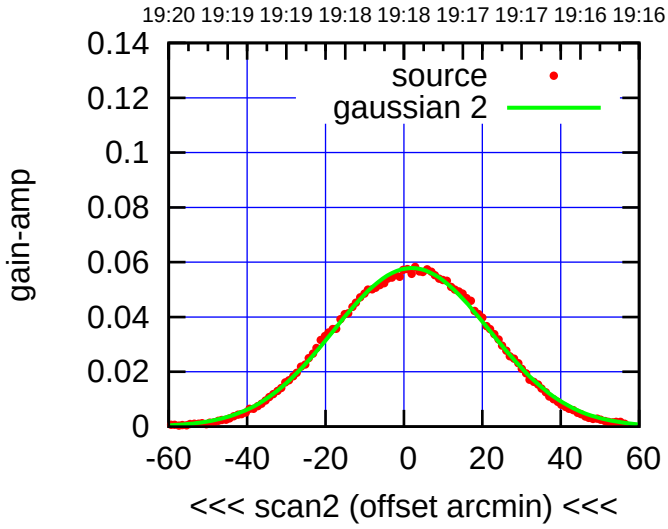


(+30’/m) 24mar2016 19:13

C09-130-AZ OFF= 1.8’

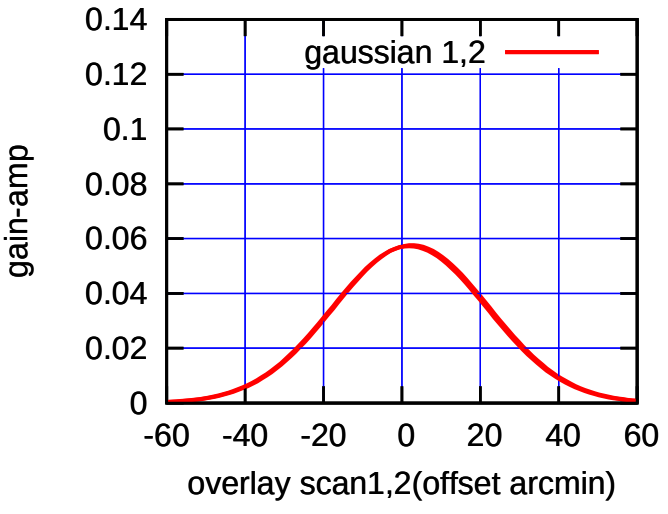


C09-175-AZ OFF= 2.0’

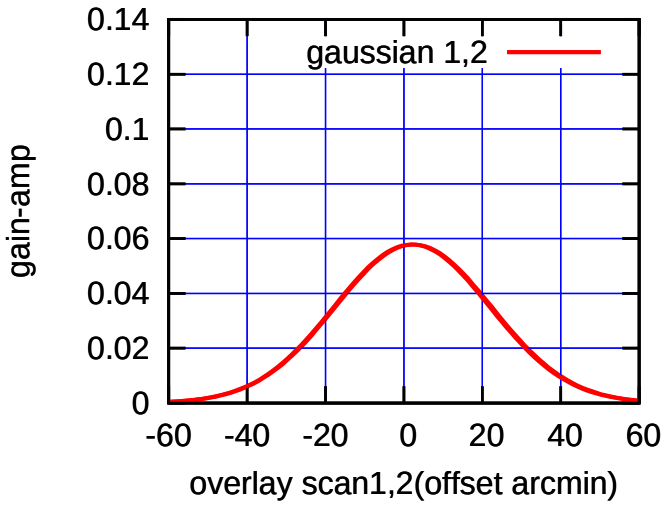


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.7’

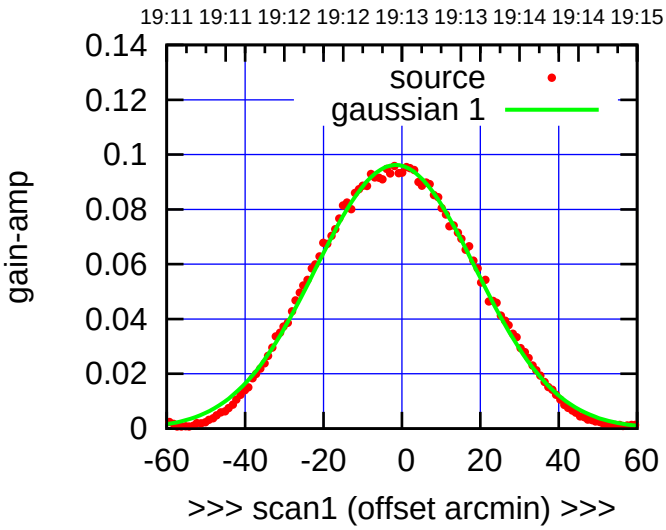


BACKLASH ERROR= 0.5’

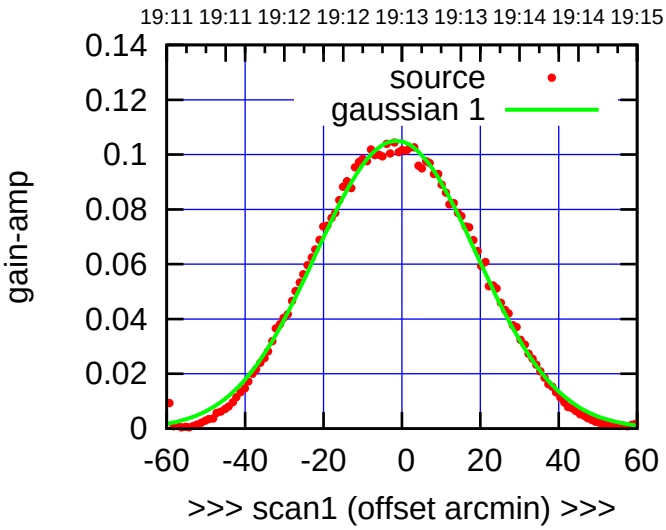


(591 MHz.)

C10-130-AZ OFF= -1.6’

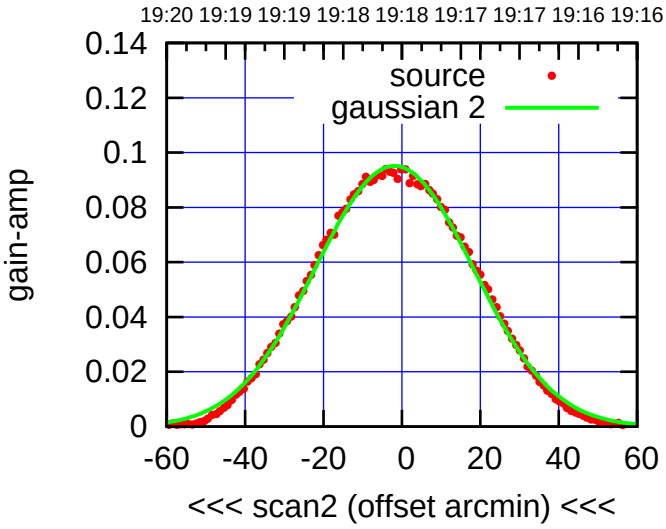


C10-175-AZ OFF= -1.5’

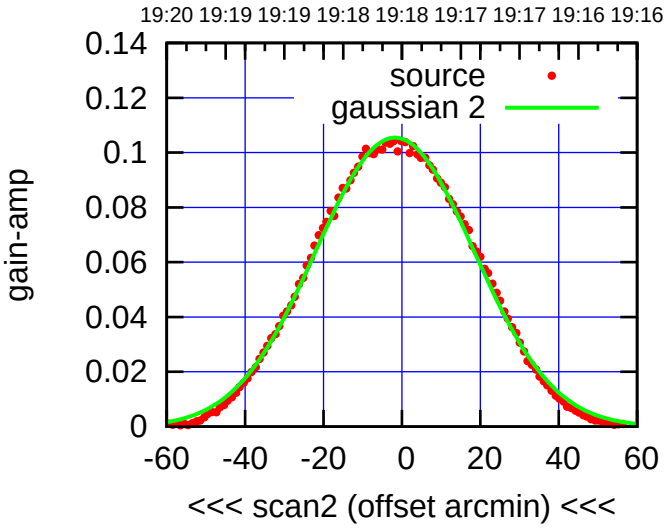


(+30’/m) 24mar2016 19:13

C10-130-AZ OFF= -1.9’

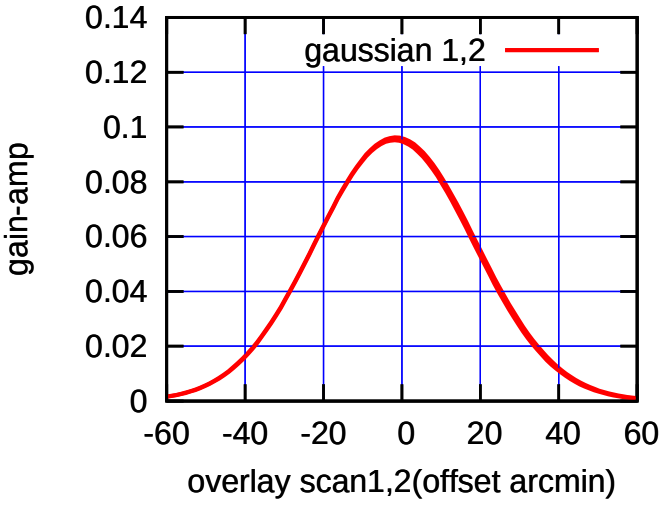


C10-175-AZ OFF= -1.8’

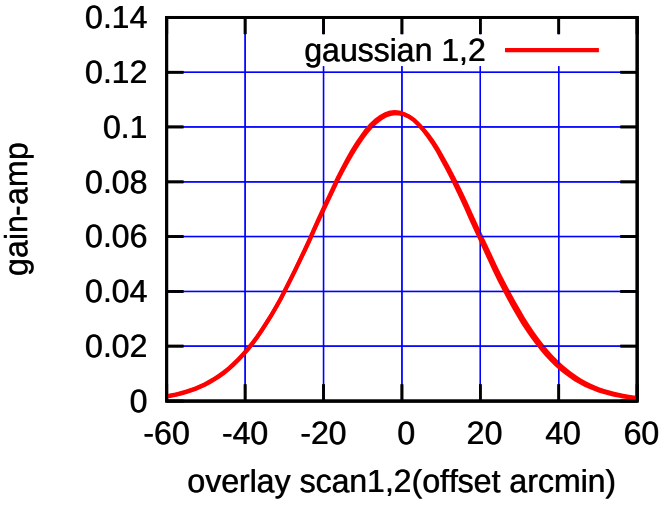


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.3’

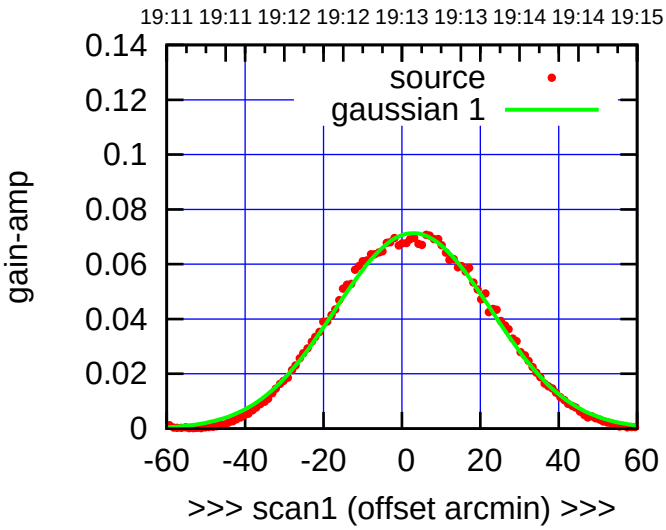


BACKLASH ERROR= 0.3’

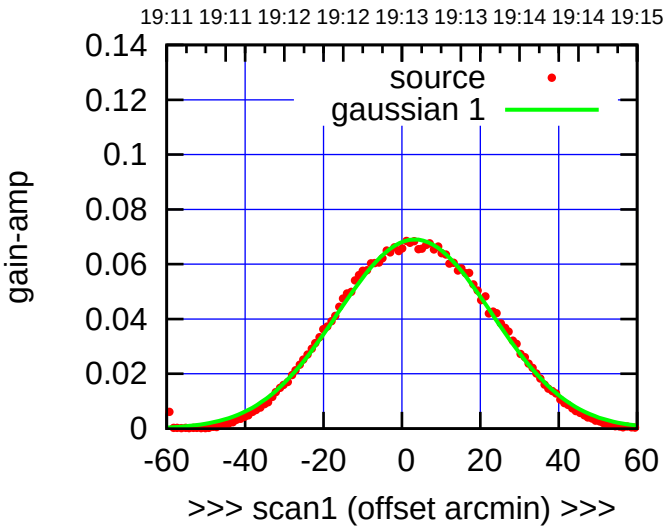


(591 MHz.)

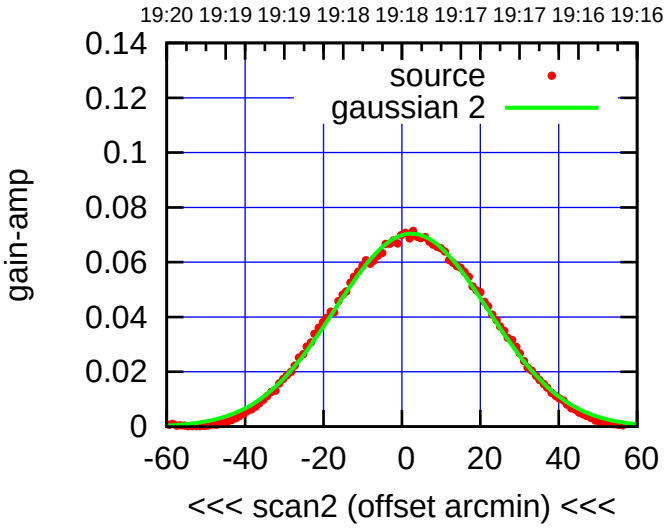
C11-130-AZ OFF= 2.8’



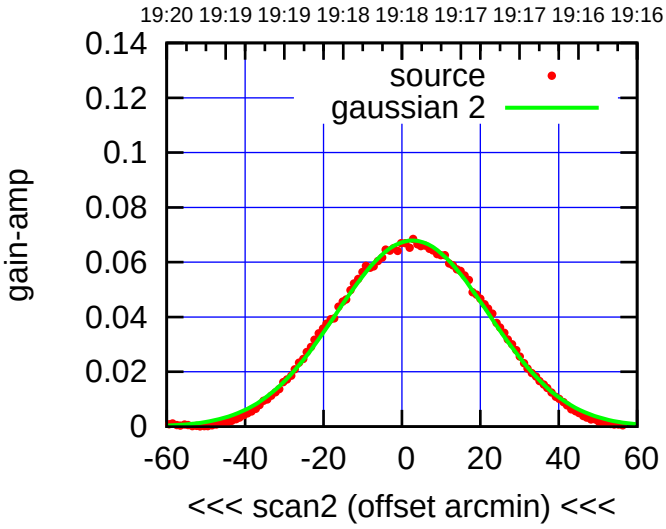
C11-175-AZ OFF= 3.3’



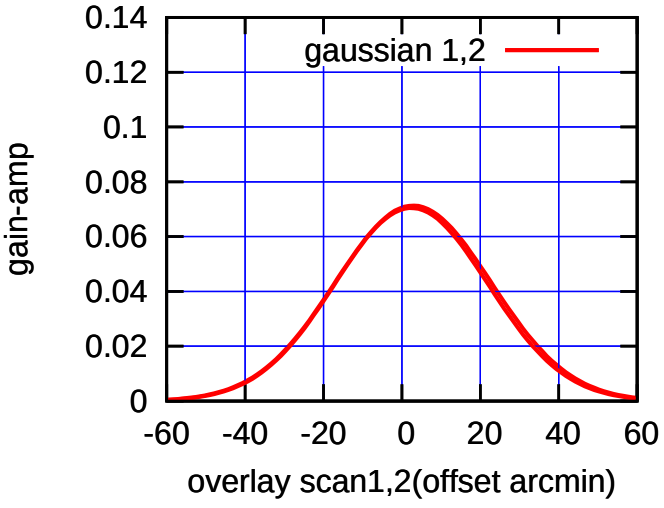
C11-130-AZ OFF= 2.4’



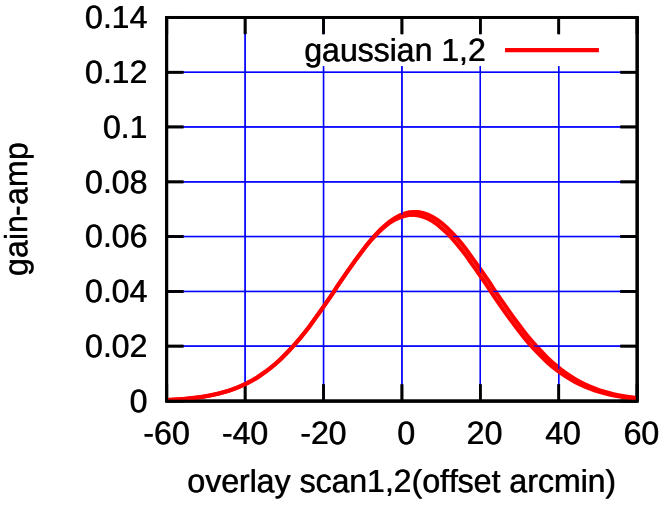
C11-175-AZ OFF= 2.7’



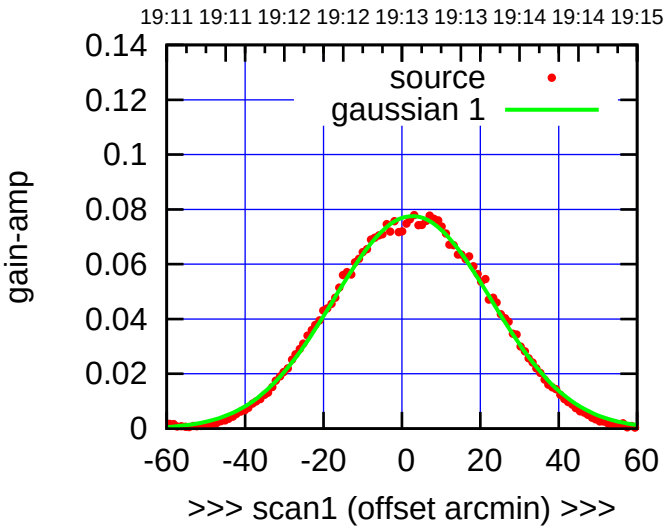
BACKLASH ERROR= 0.4’



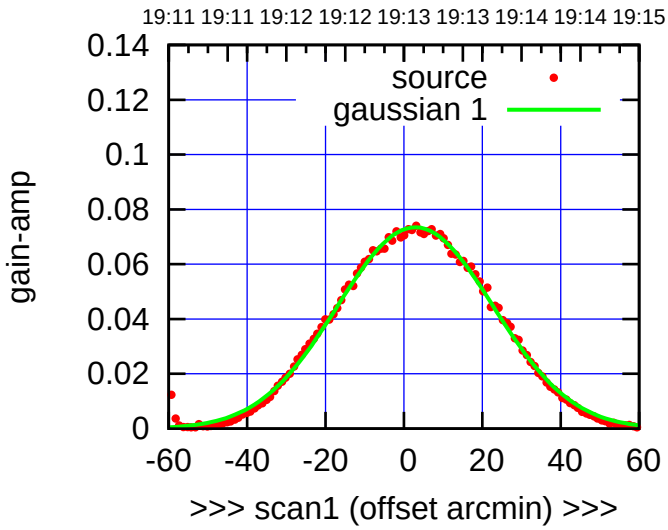
BACKLASH ERROR= 0.6’



C12-130-AZ OFF= 2.7’

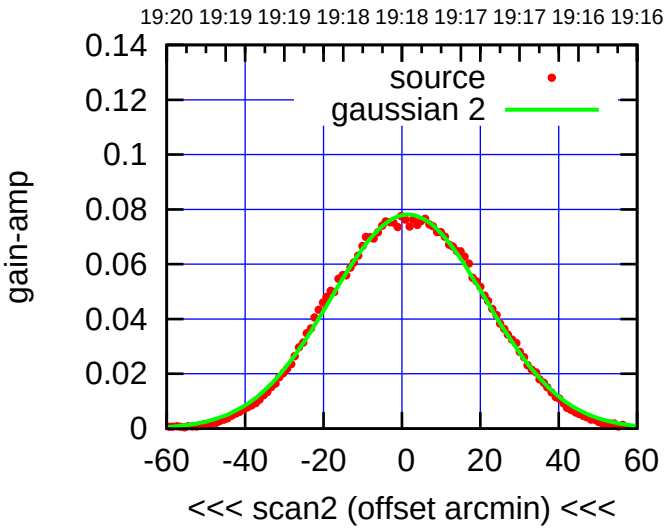


C12-175-AZ OFF= 2.9’

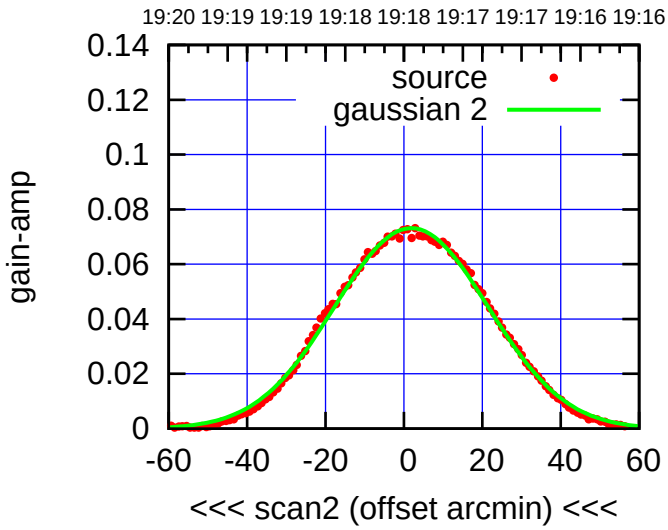


(+30’/m) 24mar2016 19:13

C12-130-AZ OFF= 1.6’

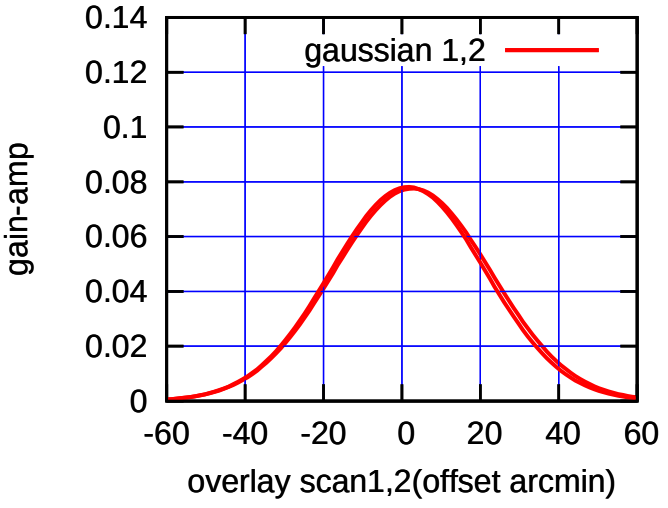


C12-175-AZ OFF= 1.9’

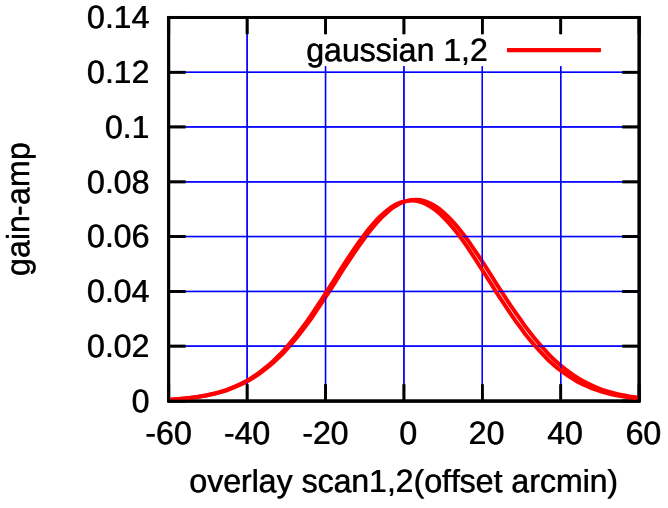


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 1.2’

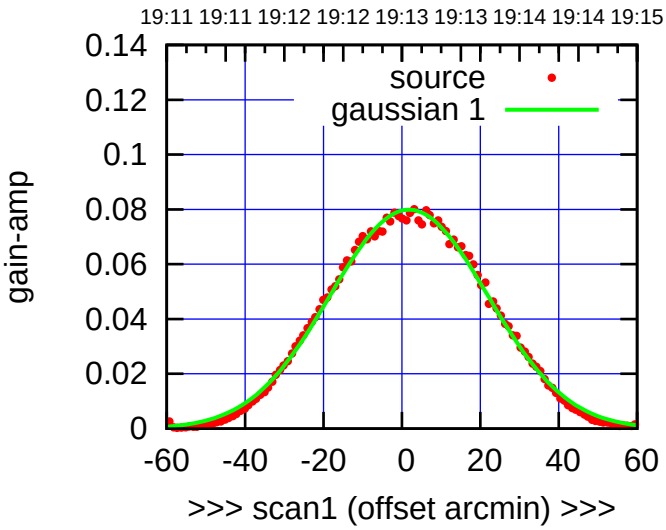


BACKLASH ERROR= 1.1’

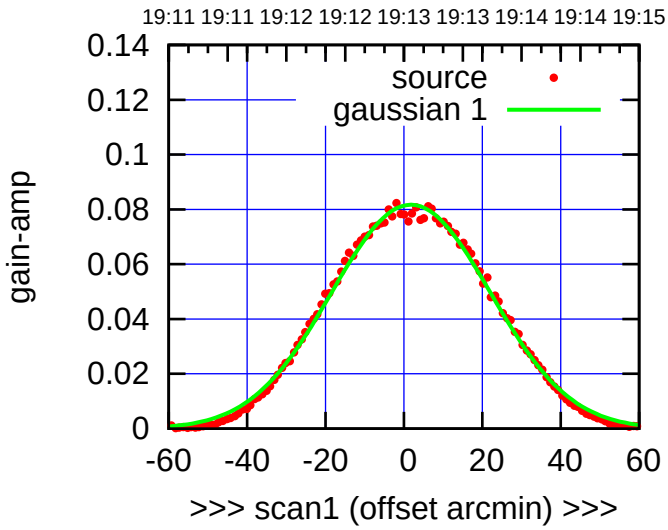


(591 MHz.)

C13-130-AZ OFF= 1.8’

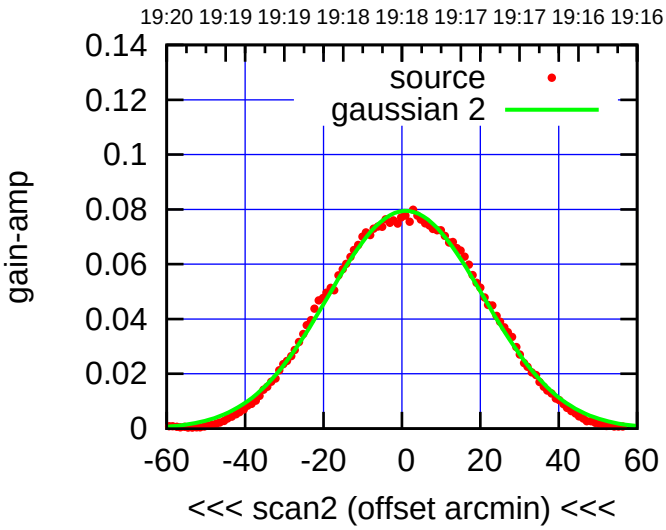


C13-175-AZ OFF= 1.8’

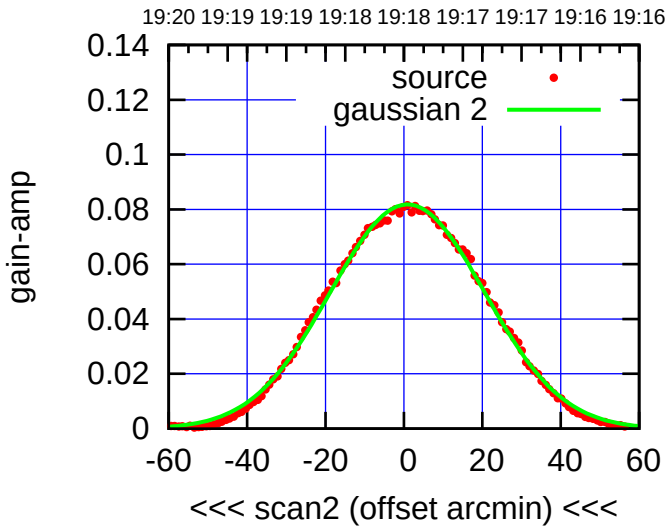


(+30’/m) 24mar2016 19:13

C13-130-AZ OFF= 1.0’

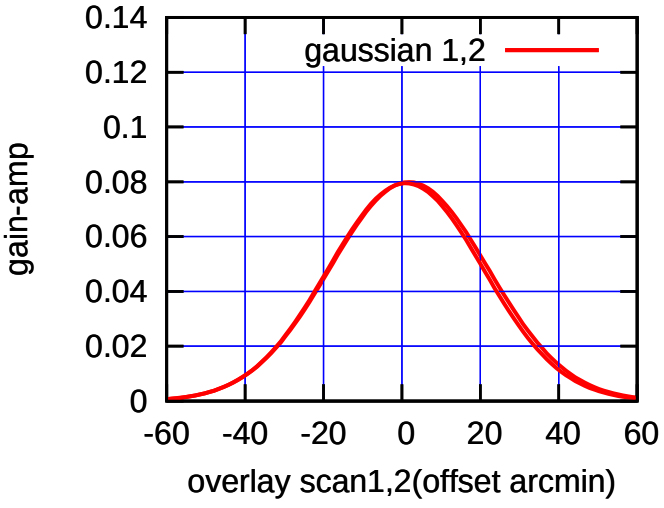


C13-175-AZ OFF= 0.9’

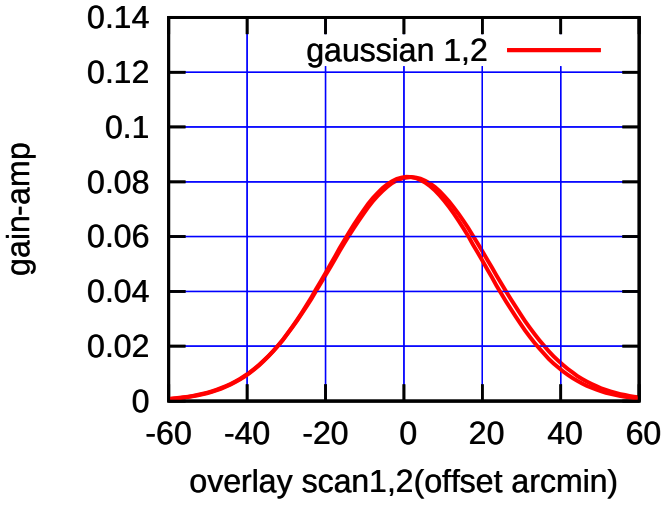


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.9’

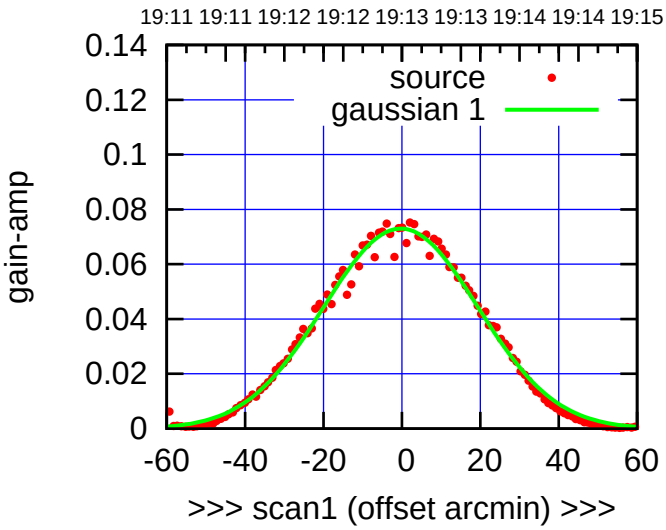


BACKLASH ERROR= 1.0’

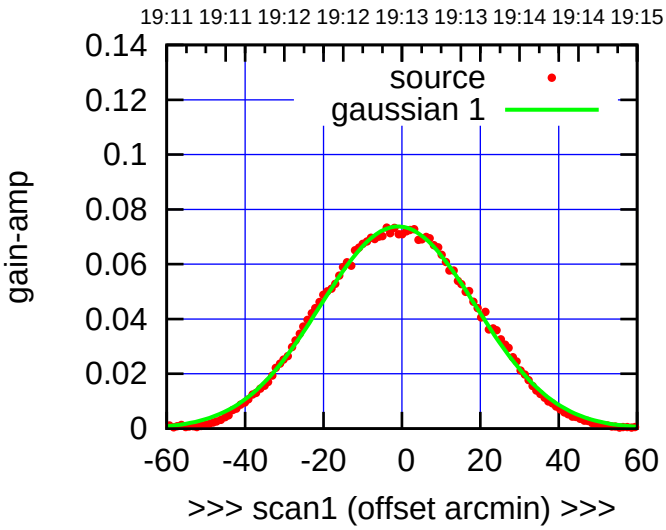


(591 MHz.)

C14-130-AZ OFF= -0.3’

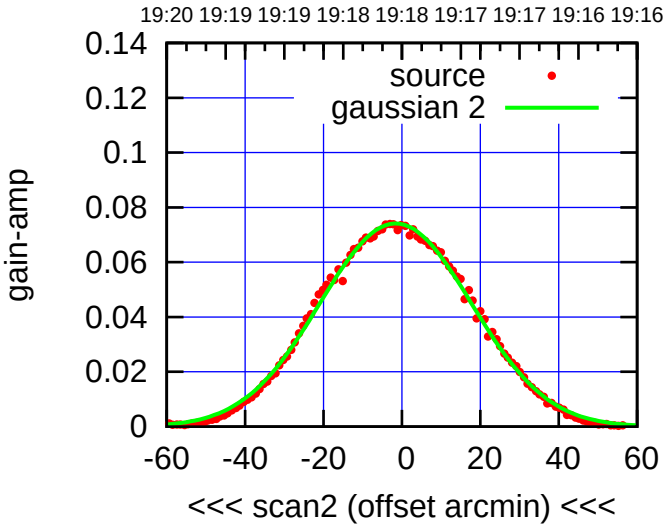


C14-175-AZ OFF= -1.0’

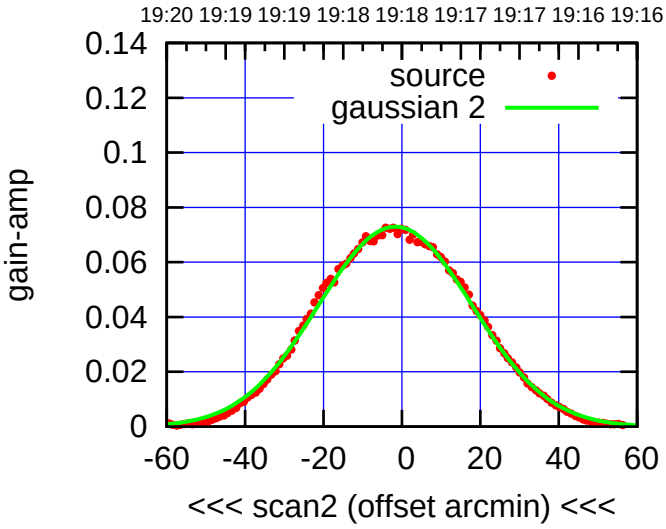


(+30’/m) 24mar2016 19:13

C14-130-AZ OFF= -1.6’

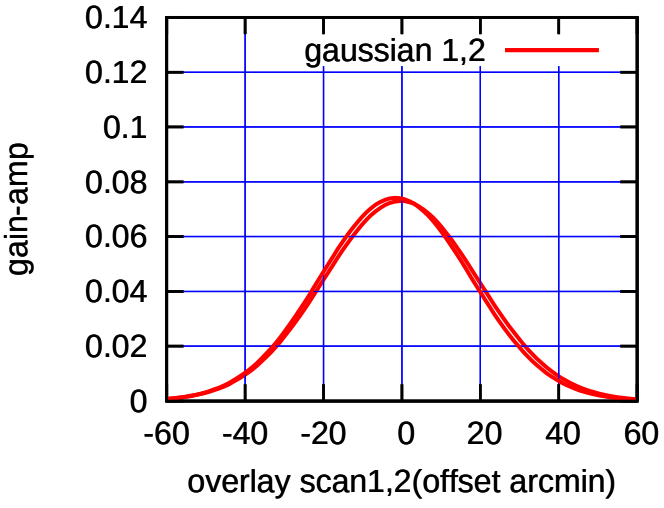


C14-175-AZ OFF= -1.7’

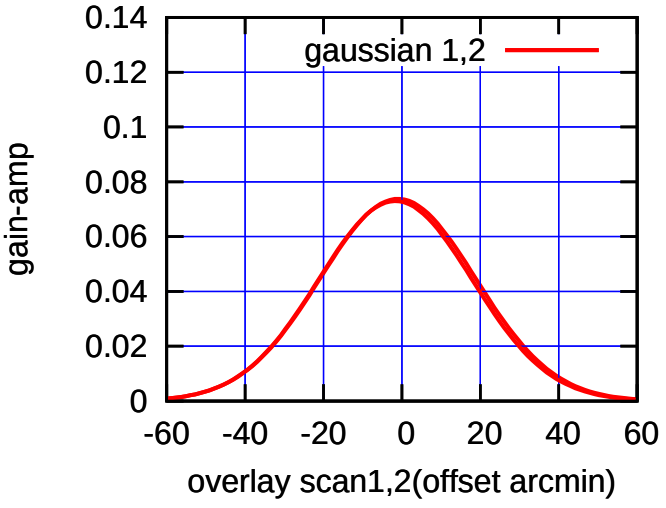


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 1.4’

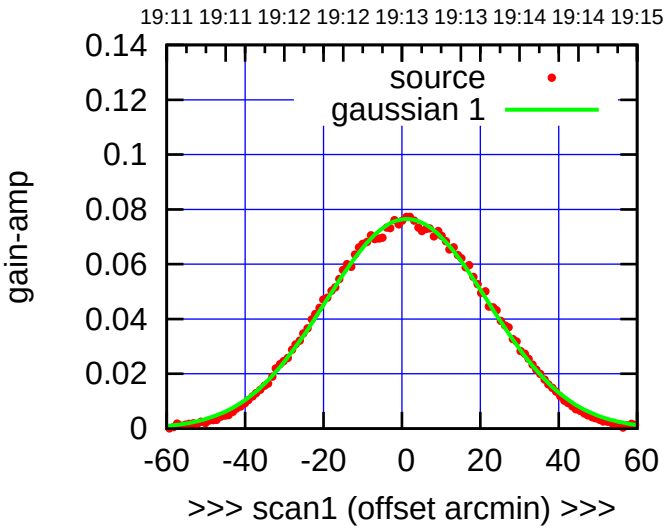


BACKLASH ERROR= 0.7’

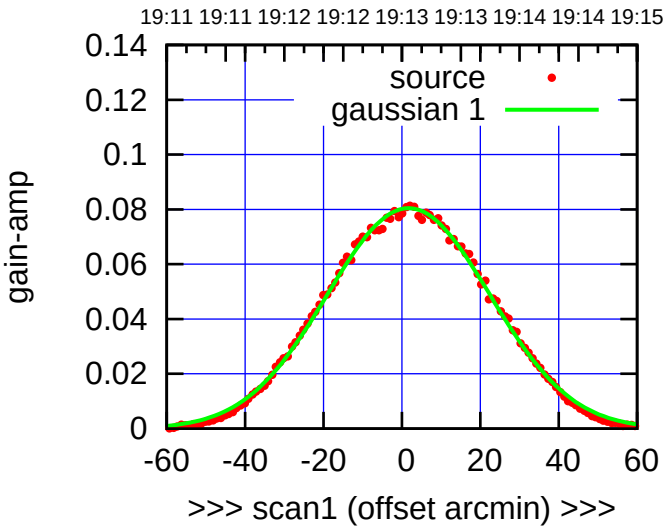


(591 MHz.)

E02-130-AZ OFF= 1.2’

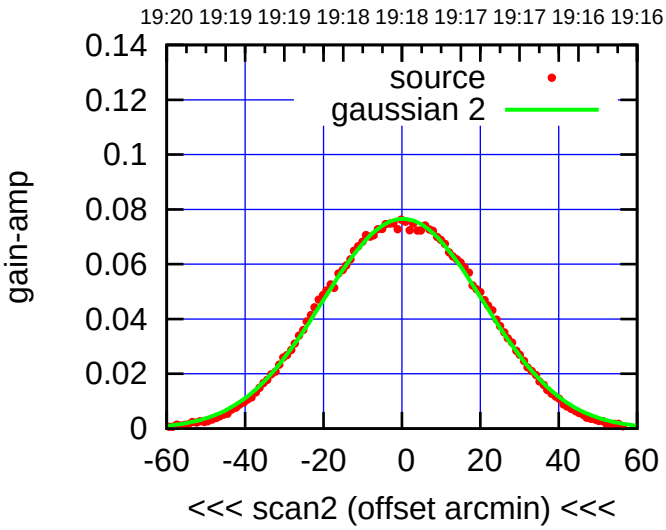


E02-175-AZ OFF= 1.7’

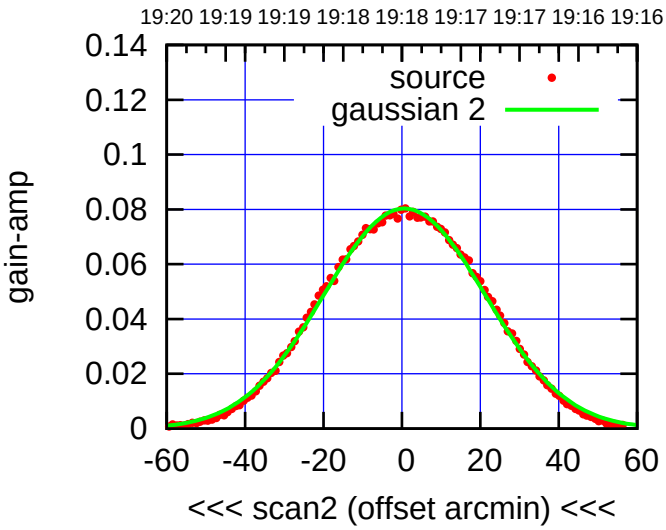


(+30’/m) 24mar2016 19:13

E02-130-AZ OFF= 0.2’

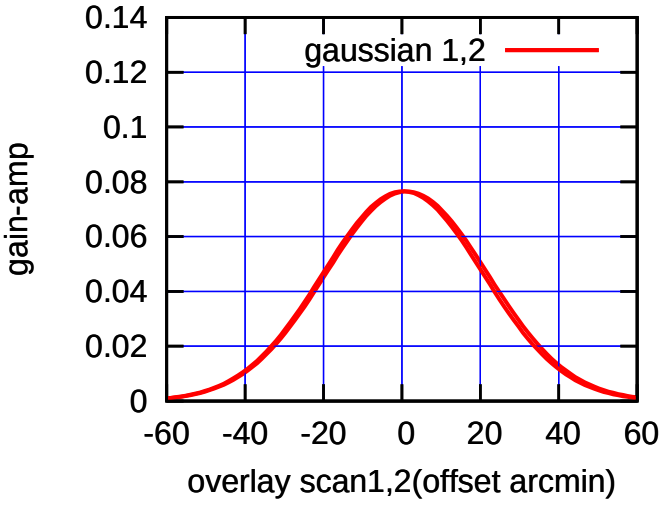


E02-175-AZ OFF= 0.7’

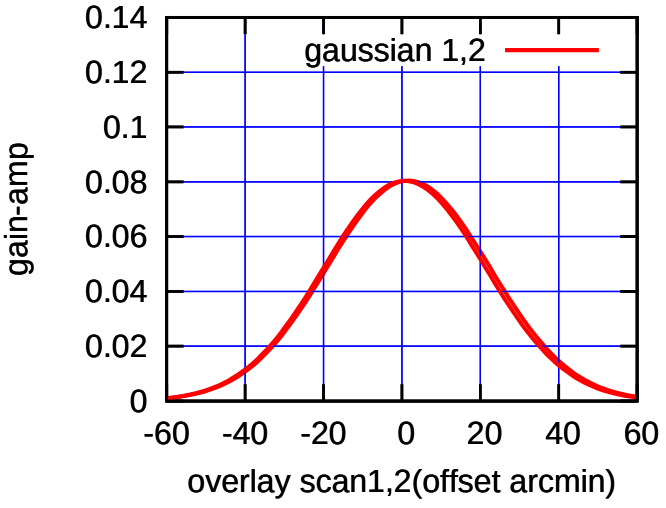


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 1.1’

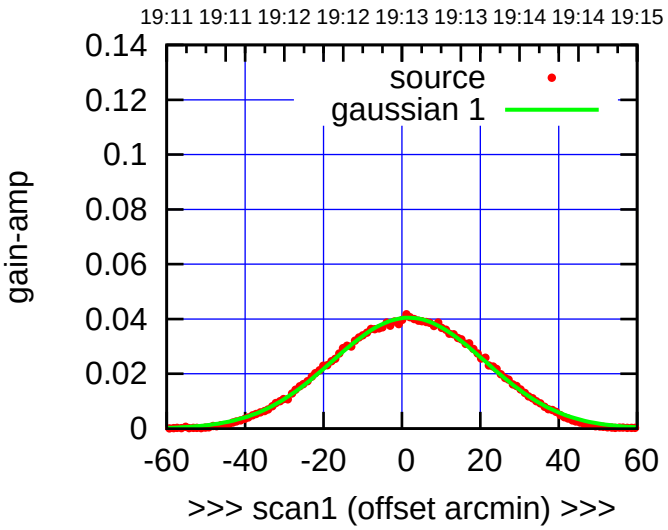


BACKLASH ERROR= 1.1’

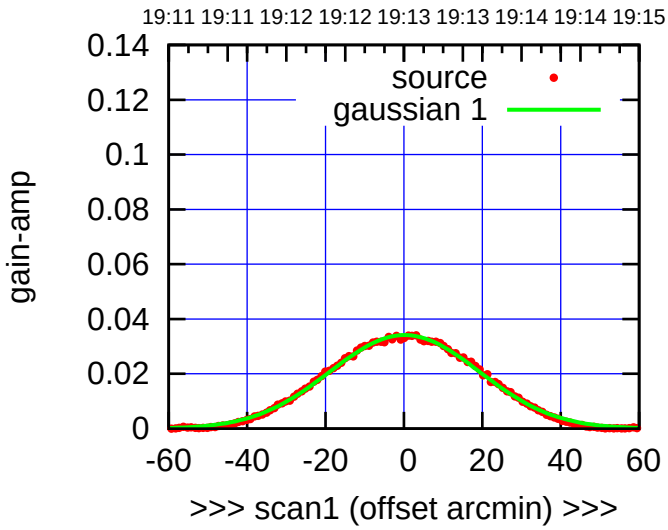


(591 MHz.)

E03-130-AZ OFF= 1.7’

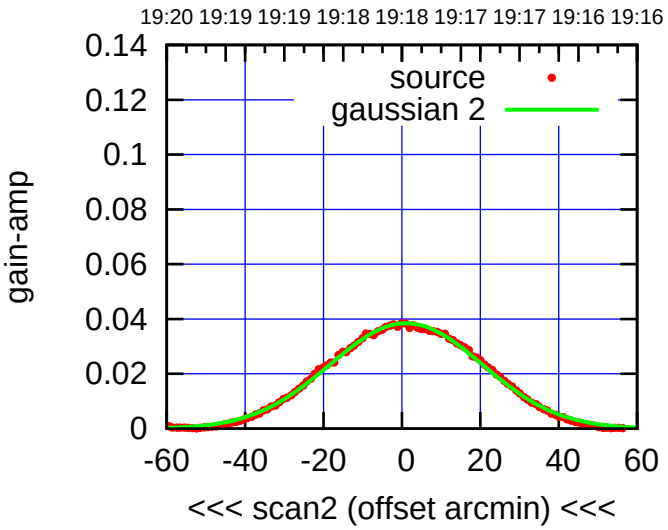


E03-175-AZ OFF= 0.2’

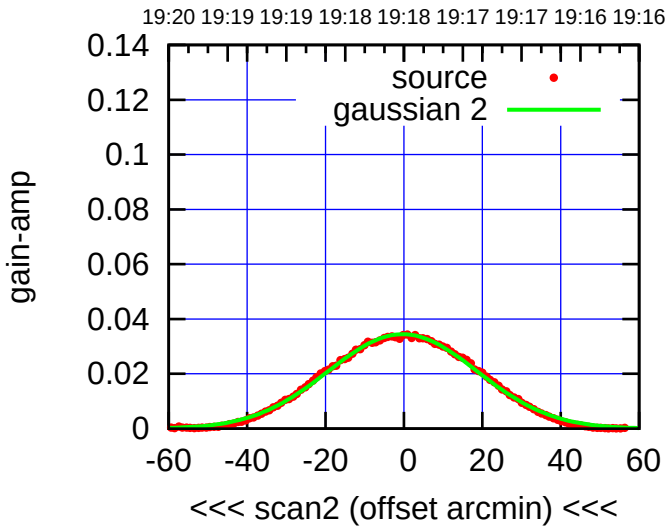


(+30’/m) 24mar2016 19:13

E03-130-AZ OFF= 1.1’

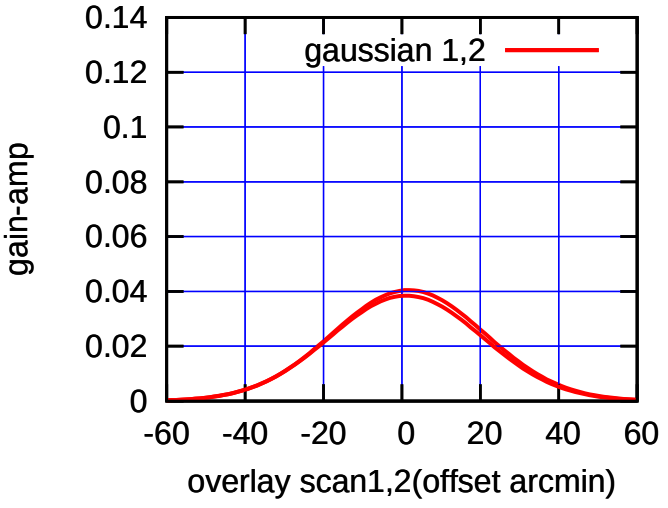


E03-175-AZ OFF= -0.3’

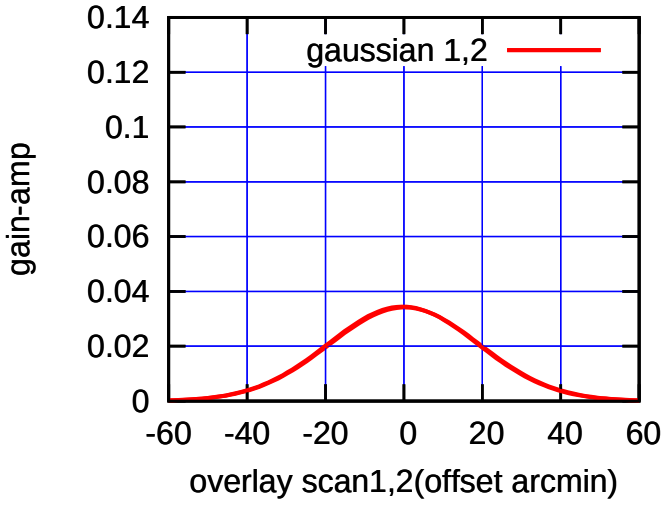


(-30’/m) 24mar2016 19:18

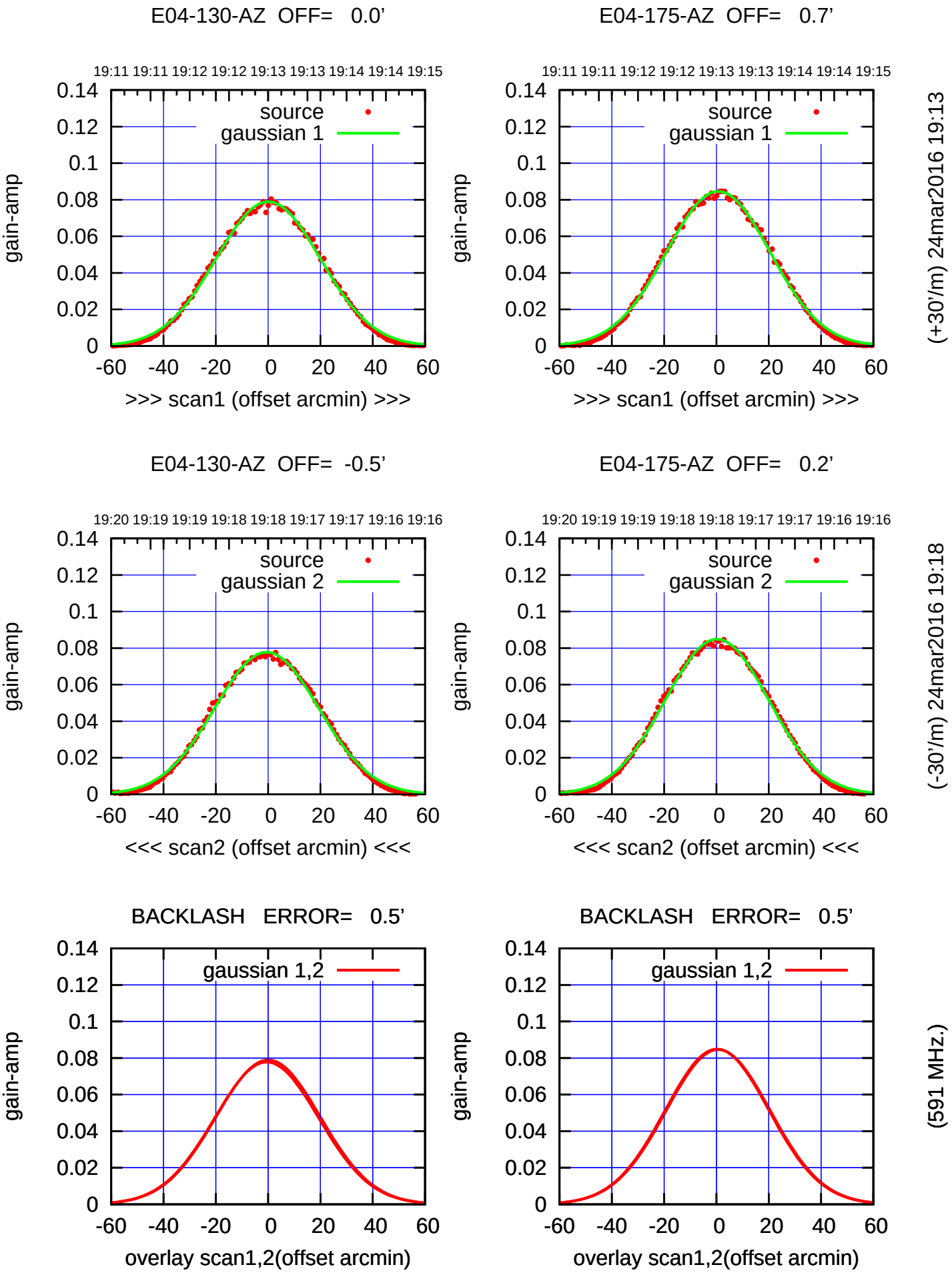
BACKLASH ERROR= 0.6’



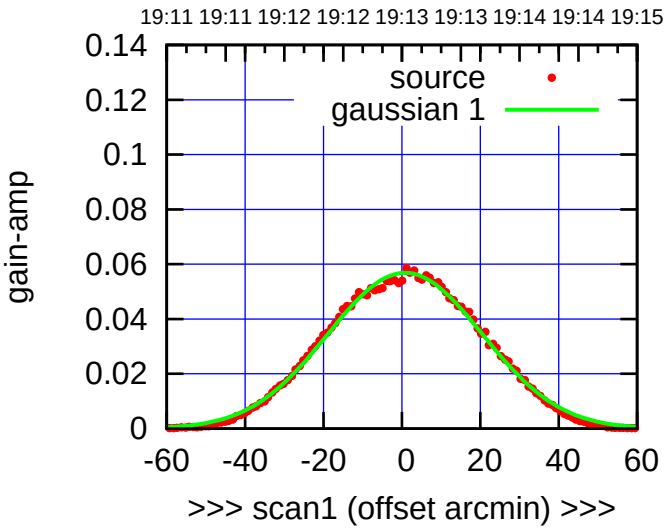
BACKLASH ERROR= 0.5’



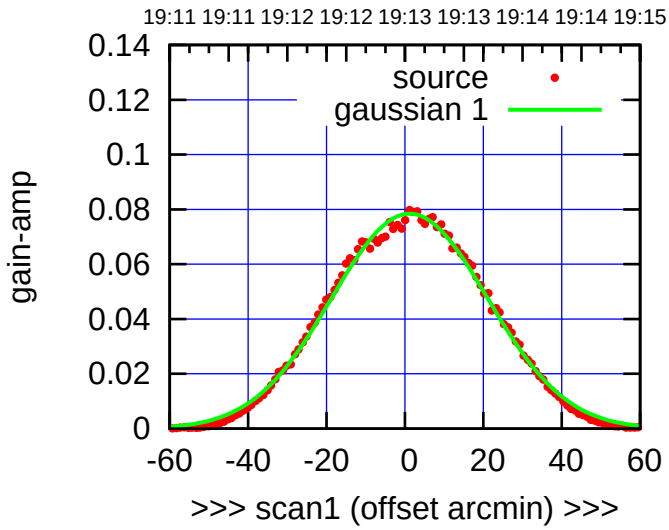
(591 MHz.)


E04-130-AZ OFF= 0.0'
E04-175-AZ OFF= 0.7'
E04-130-AZ OFF= -0.5'
E04-175-AZ OFF= 0.2'
BACKLASH ERROR= 0.5'
BACKLASH ERROR= 0.5'
19:11 19:11 19:12 19:12 19:13 19:13 19:14 19:14 19:15
19:20 19:19 19:19 19:18 19:18 19:17 19:17 19:16 19:16
source
gaussian 1
gaussian 2
gaussian 1,2
gain-amp
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-60 -40 -20 0 20 40 60
>>> scan1 (offset arcmin) >>>
<<< scan2 (offset arcmin) <<<
overlay scan1,2(offset arcmin)
(+30'/m) 24mar2016 19:13
(-30'/m) 24mar2016 19:18
(591 MHz.)

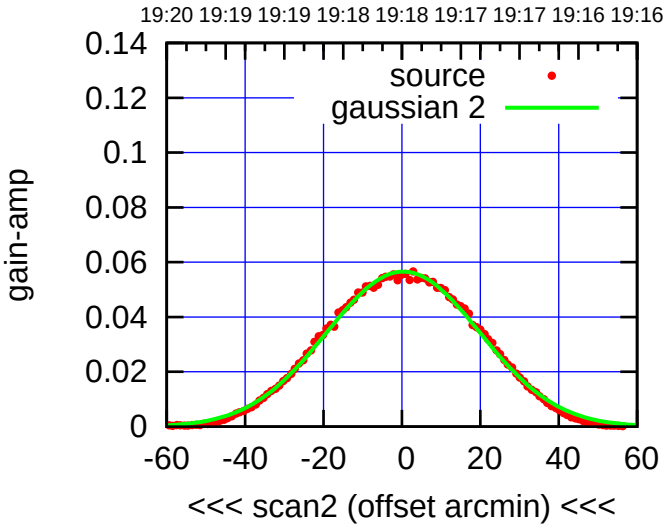
E05-130-AZ OFF= 0.8’



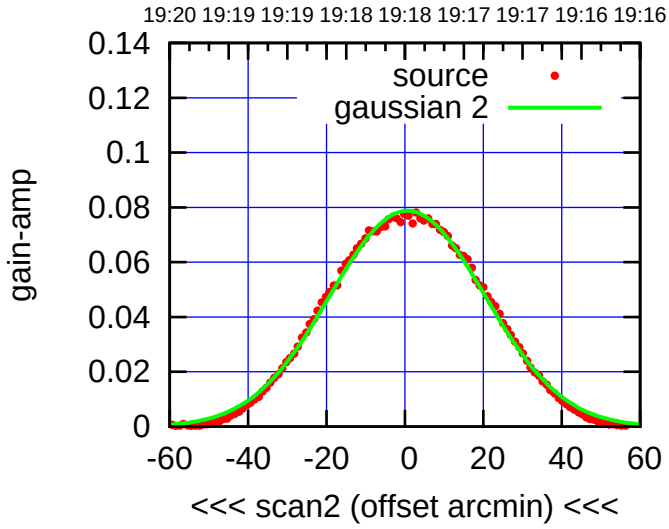
E05-175-AZ OFF= 1.2’



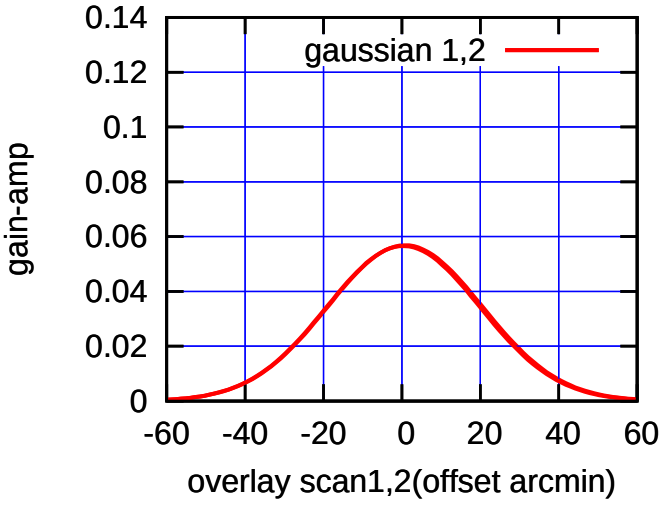
E05-130-AZ OFF= 0.3’



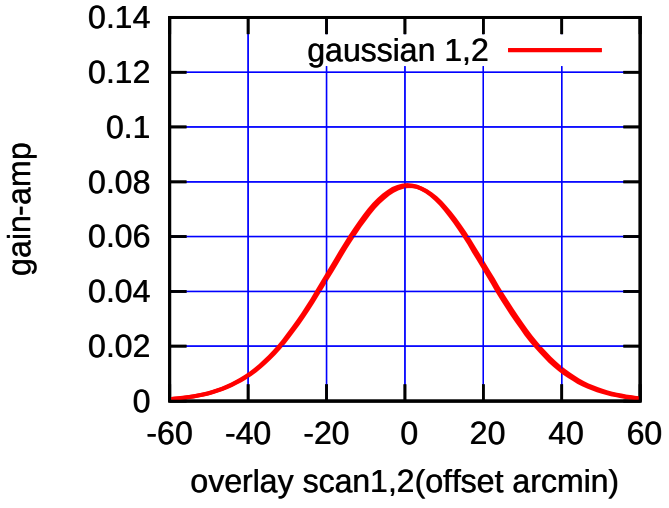
E05-175-AZ OFF= 0.7’



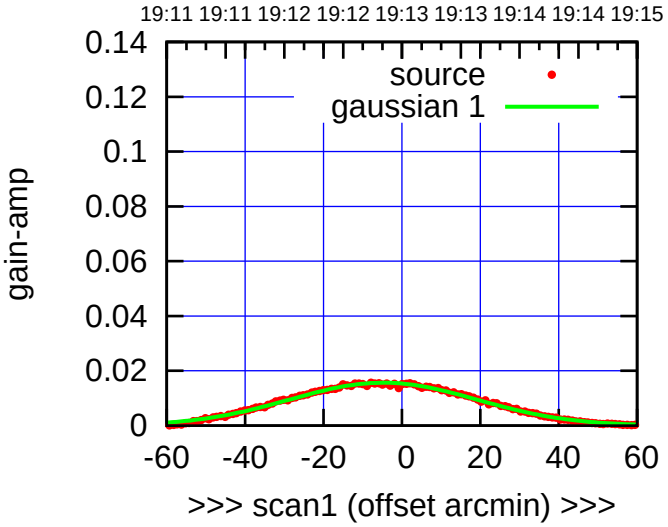
BACKLASH ERROR= 0.5’



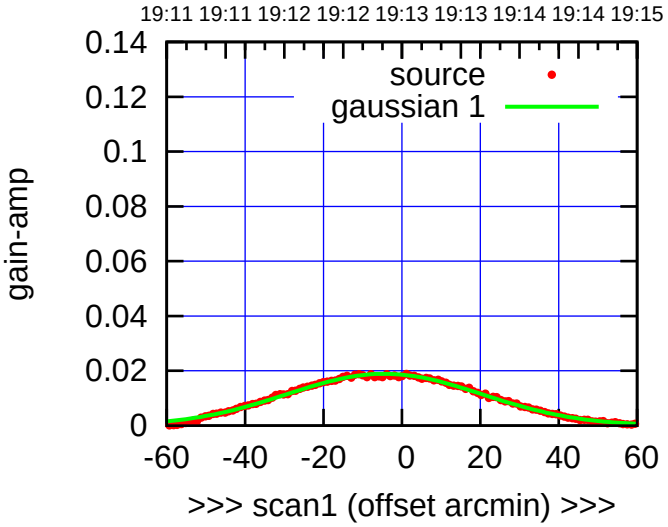
BACKLASH ERROR= 0.5’



E06-130-AZ OFF= -4.8’

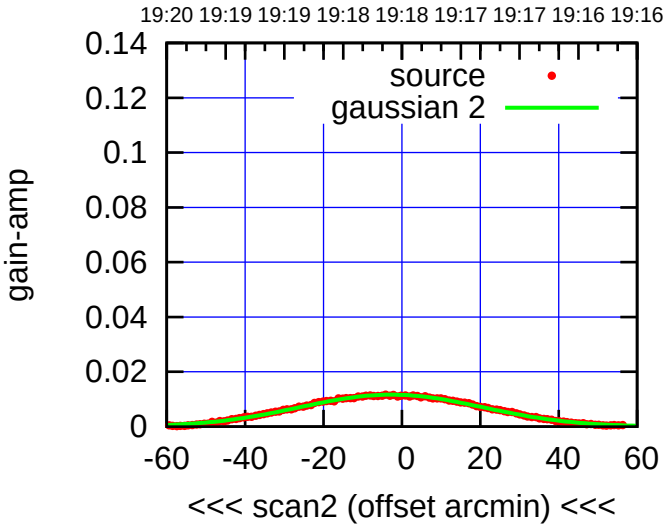


E06-175-AZ OFF= -4.5’

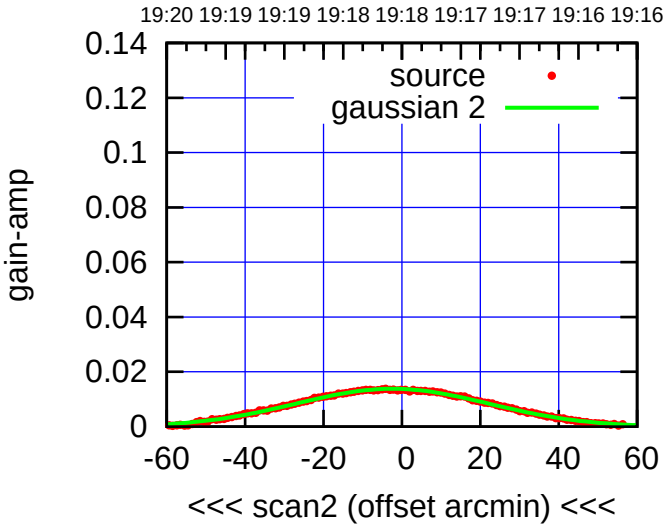


(+30’/m) 24mar2016 19:13

E06-130-AZ OFF= -2.7’

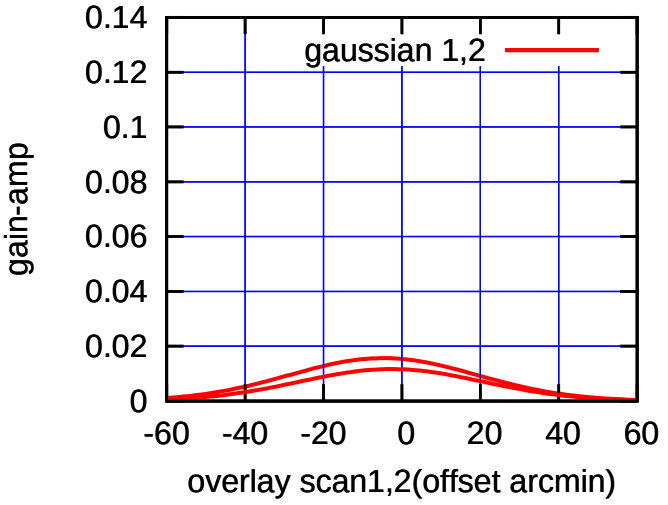


E06-175-AZ OFF= -2.4’

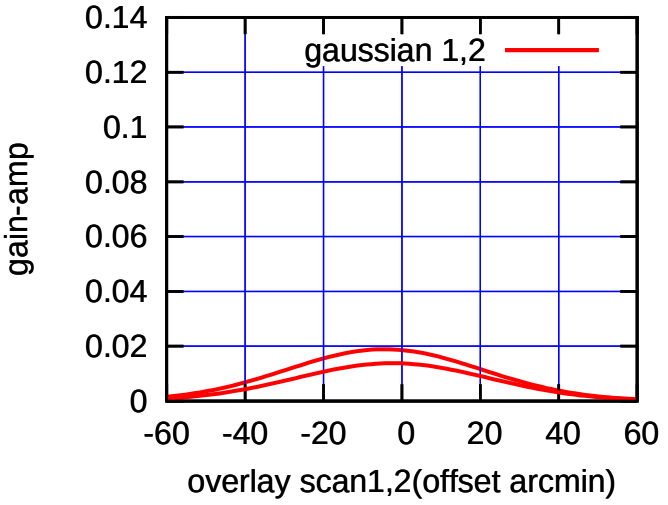


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 2.2’

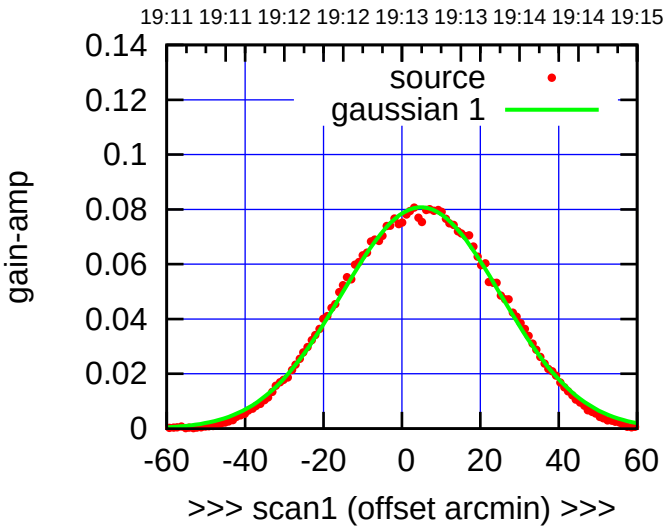


BACKLASH ERROR= 2.2’

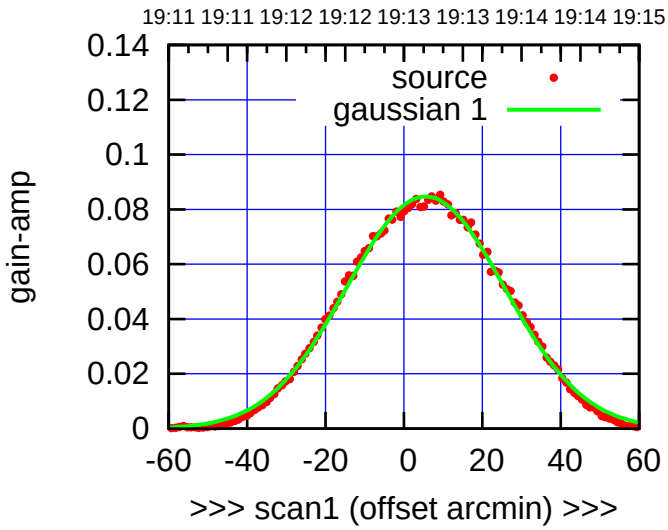


(591 MHz.)

S01-130-AZ OFF= 4.9’

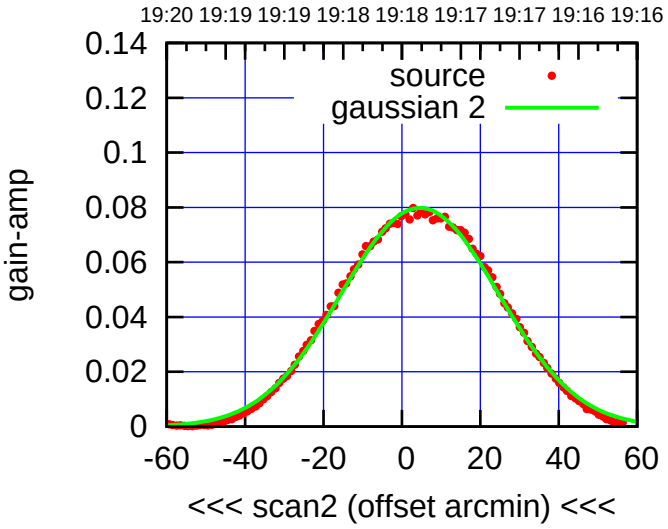


S01-175-AZ OFF= 5.5’

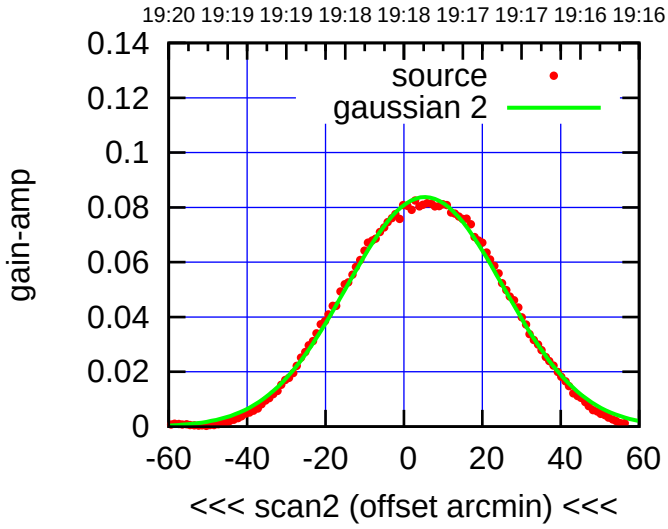


(+30’/m) 24mar2016 19:13

S01-130-AZ OFF= 4.6’

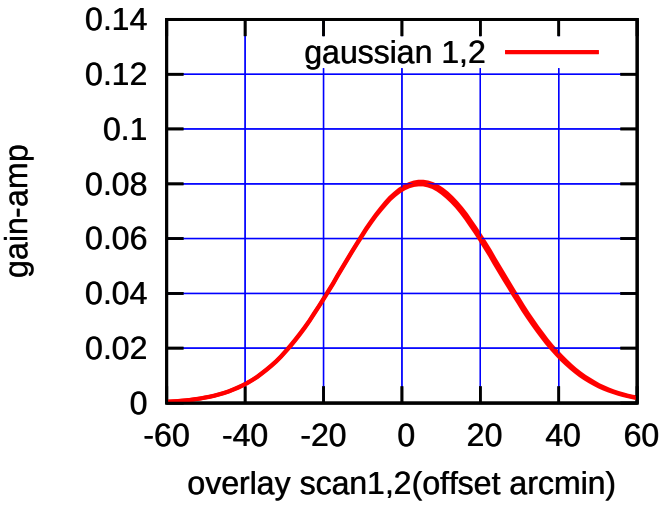


S01-175-AZ OFF= 5.4’

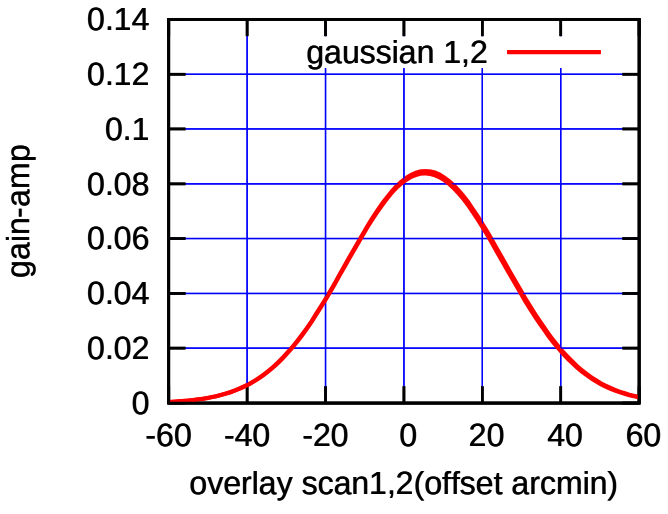


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.3’

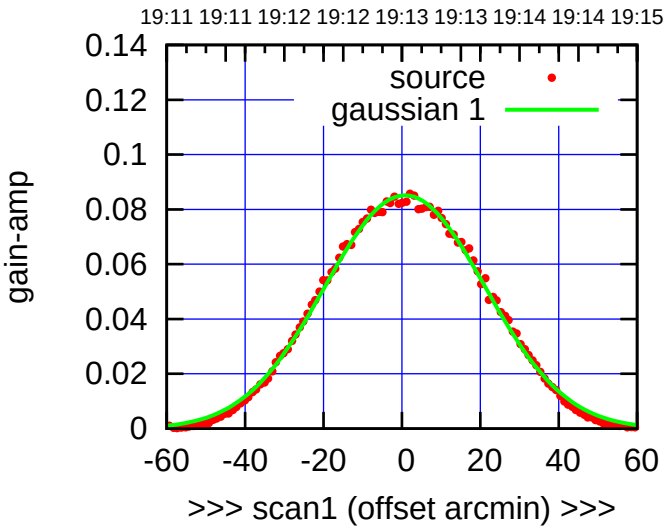


BACKLASH ERROR= 0.1’

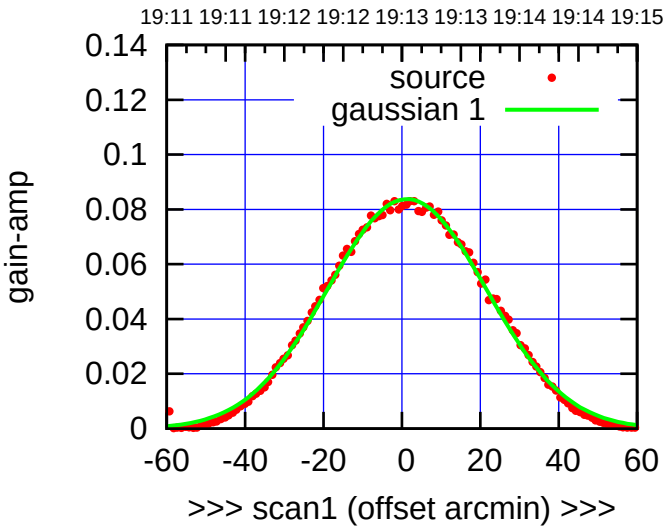


(591 MHz.)

S02-130-AZ OFF= 0.8’

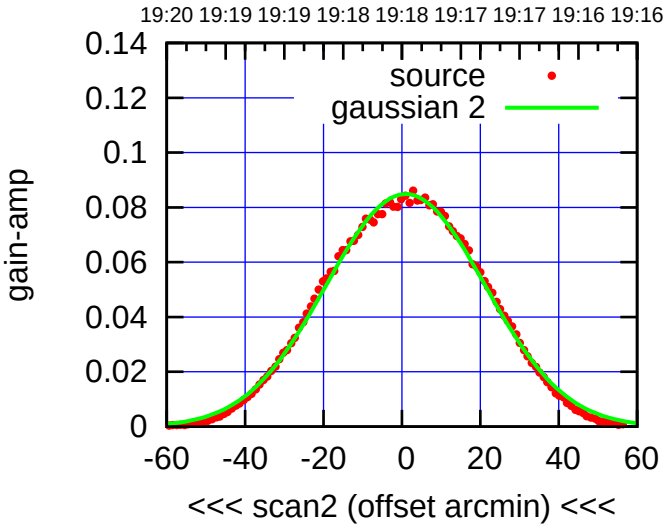


S02-175-AZ OFF= 1.3’

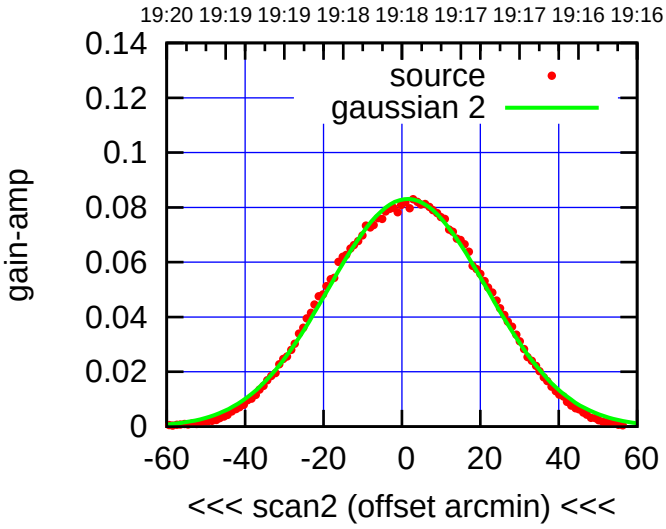


(+30’/m) 24mar2016 19:13

S02-130-AZ OFF= 0.9’

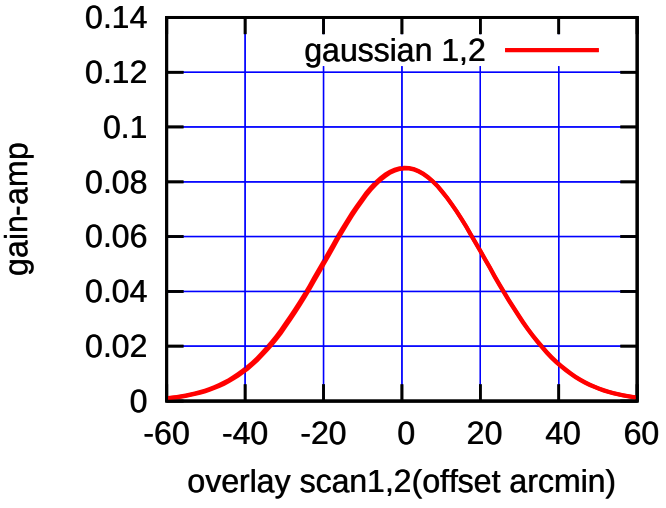


S02-175-AZ OFF= 1.4’

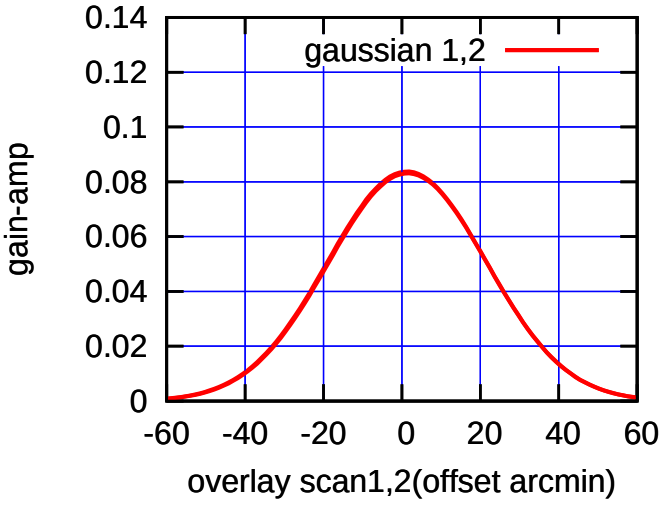


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.1’

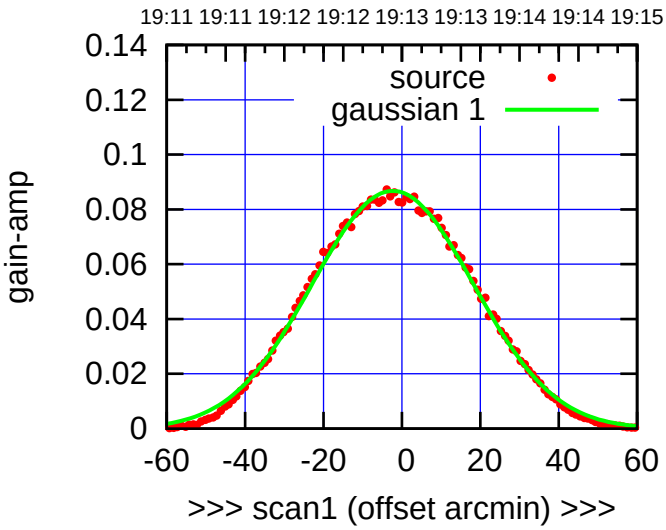


BACKLASH ERROR= 0.1’

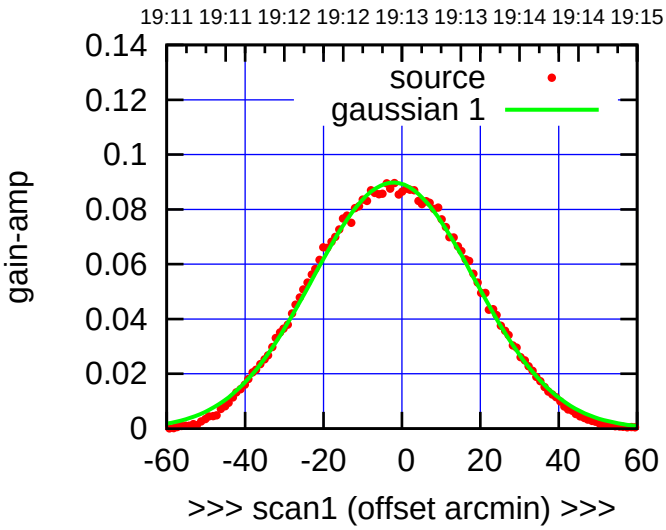


(591 MHz.)

S03-130-AZ OFF= -2.3’

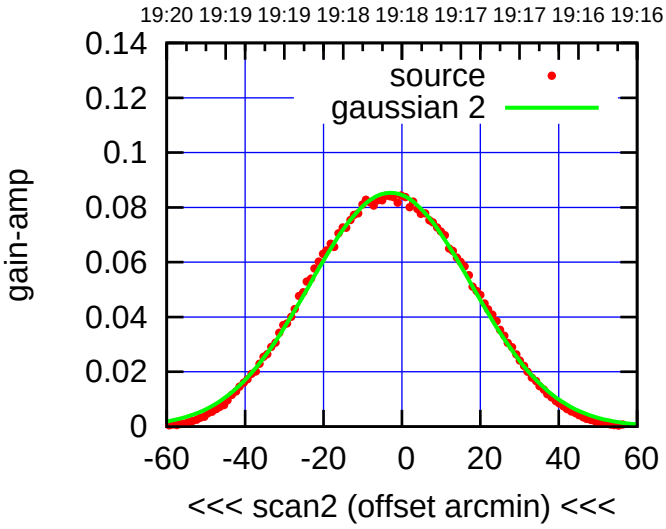


S03-175-AZ OFF= -2.2’

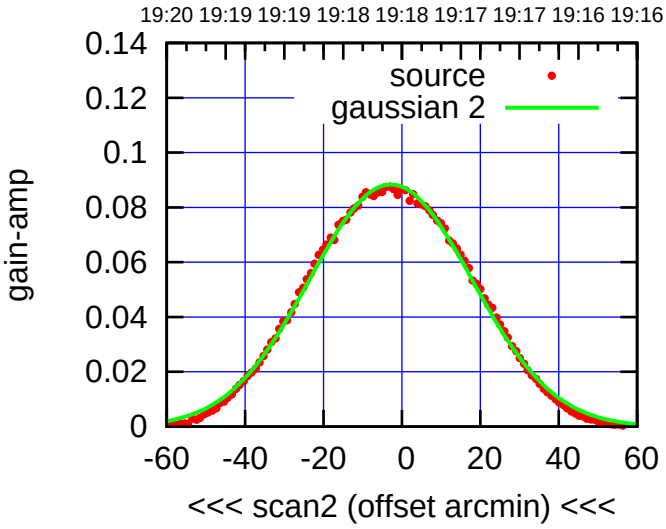


(+30’/m) 24mar2016 19:13

S03-130-AZ OFF= -2.9’

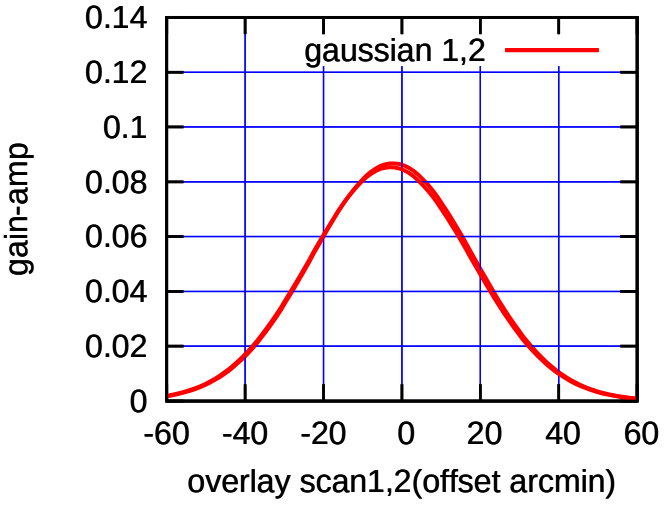


S03-175-AZ OFF= -2.8’

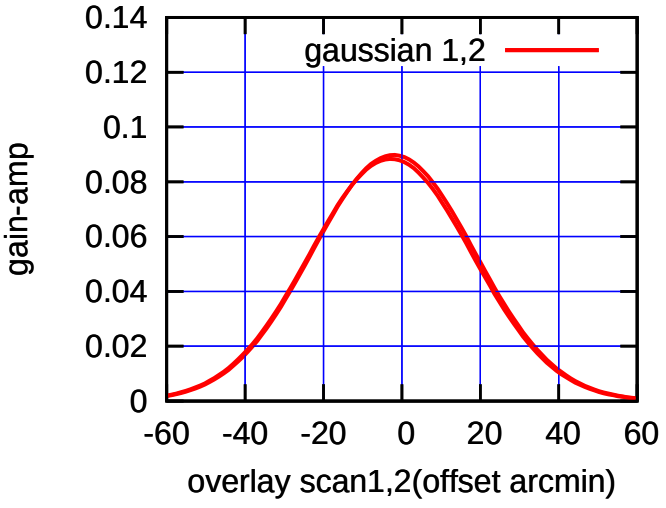


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.6’

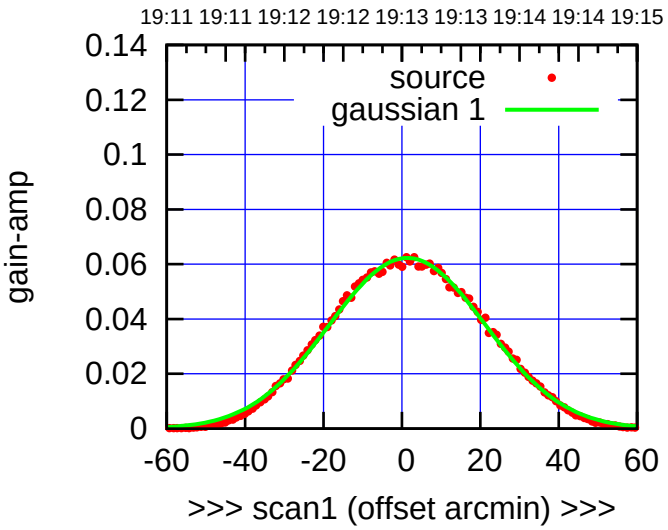


BACKLASH ERROR= 0.6’

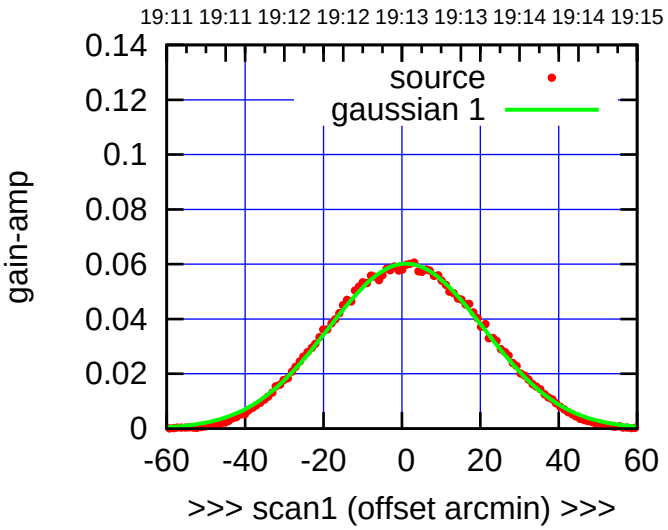


(591 MHz.)

S04-130-AZ OFF= 1.4’

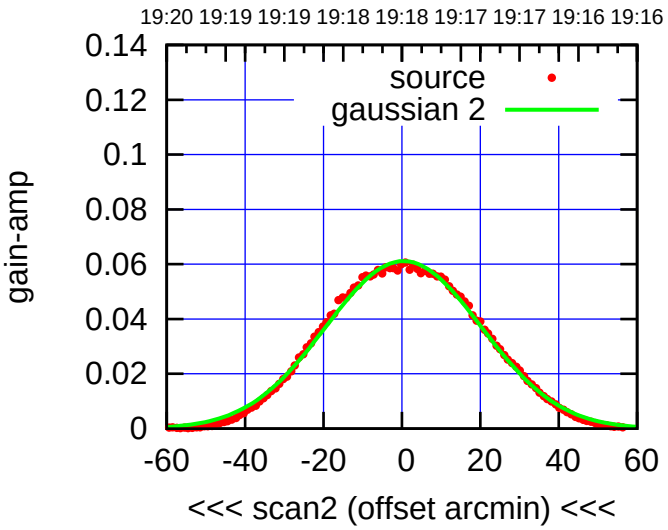


S04-175-AZ OFF= 1.1’

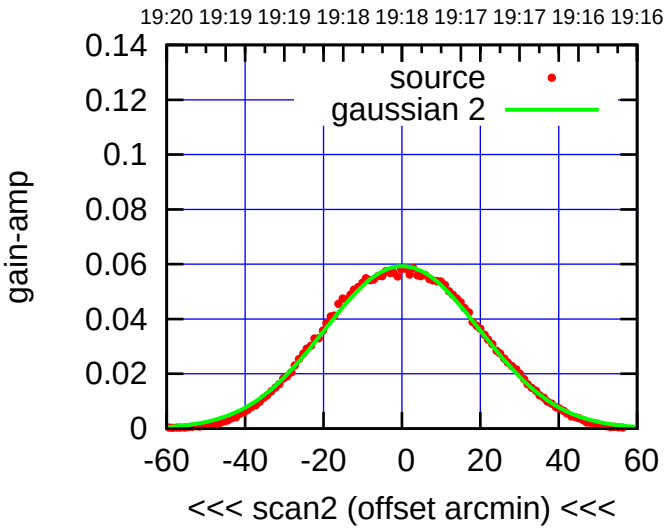


(+30’/m) 24mar2016 19:13

S04-130-AZ OFF= 0.4’

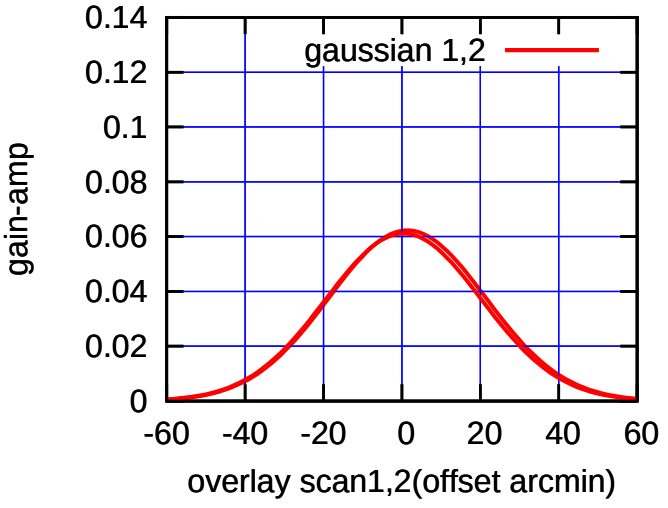


S04-175-AZ OFF= 0.1’

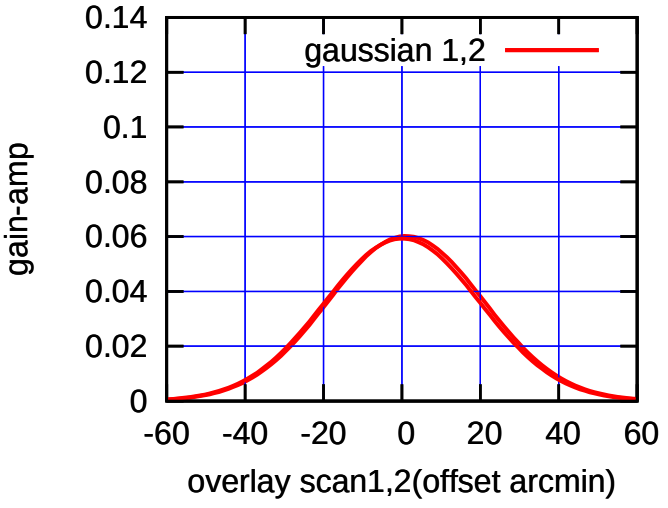


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 1.1’

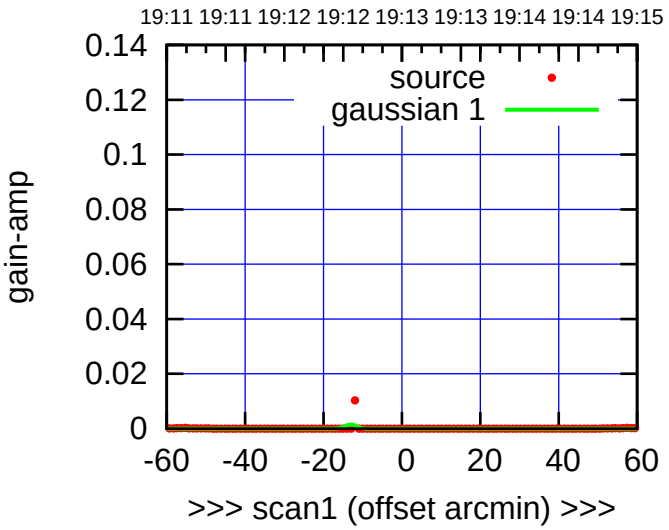


BACKLASH ERROR= 1.1’

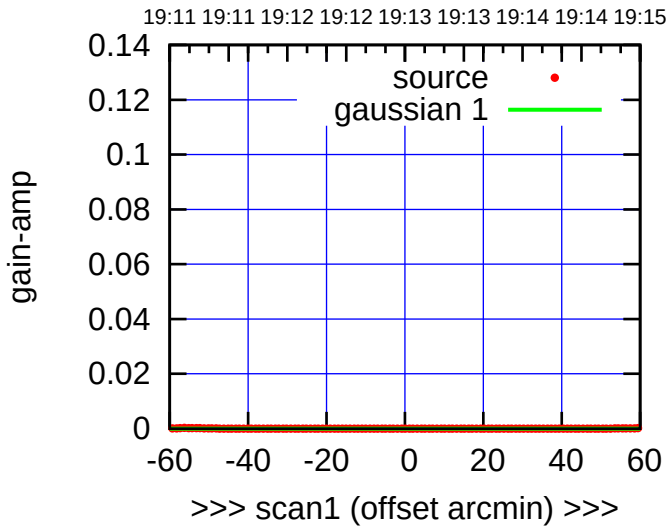


(591 MHz.)

S06-130-AZ OFF= 0.0’

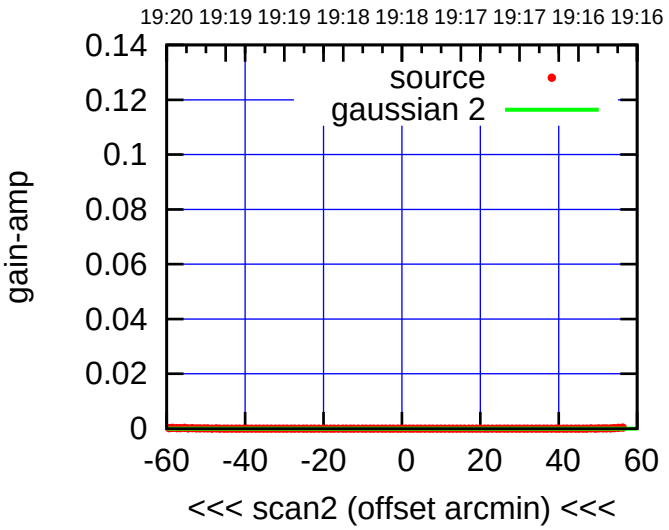


S06-175-AZ OFF= 0.0’

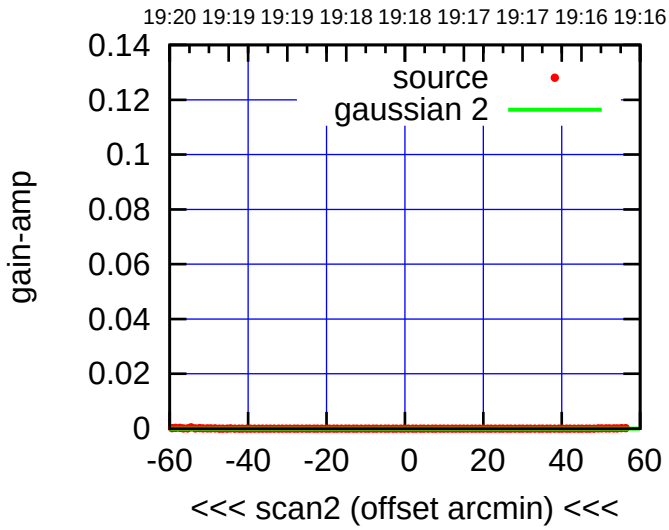


(+30’/m) 24mar2016 19:13

S06-130-AZ OFF= 0.0’

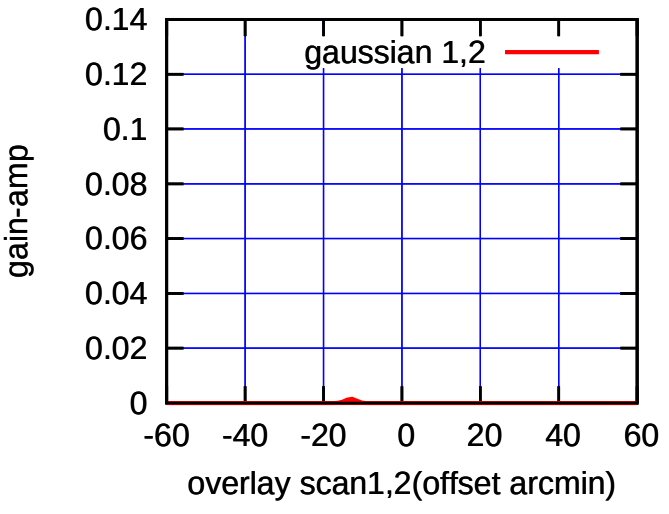


S06-175-AZ OFF= 0.0’

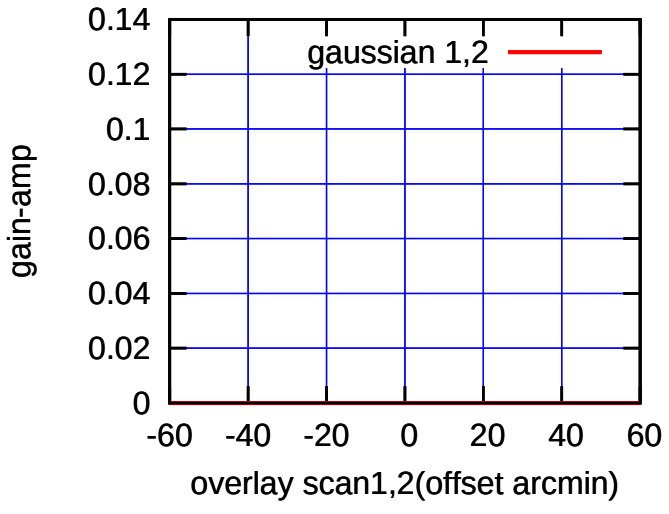


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.0’

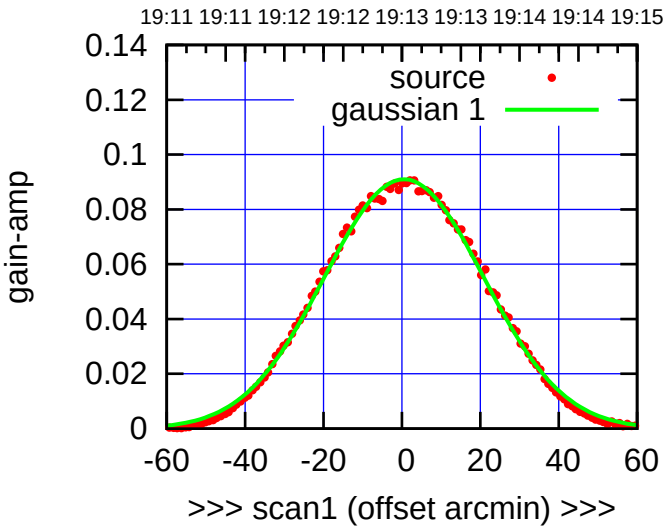


BACKLASH ERROR= 0.0’

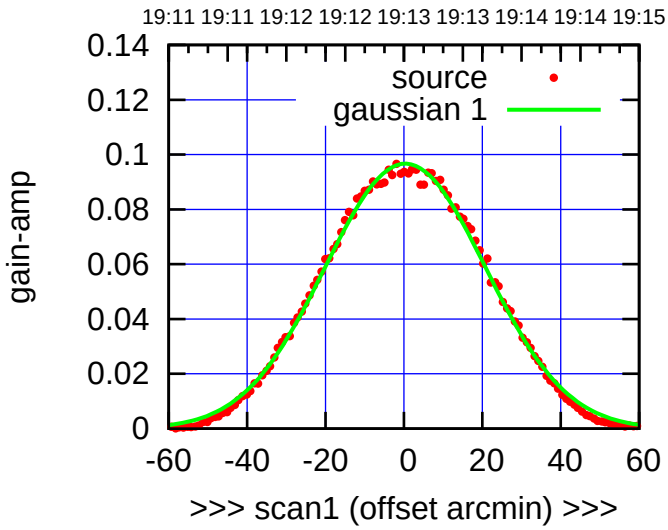


(591 MHz.)

W01-130-AZ OFF= 0.5’

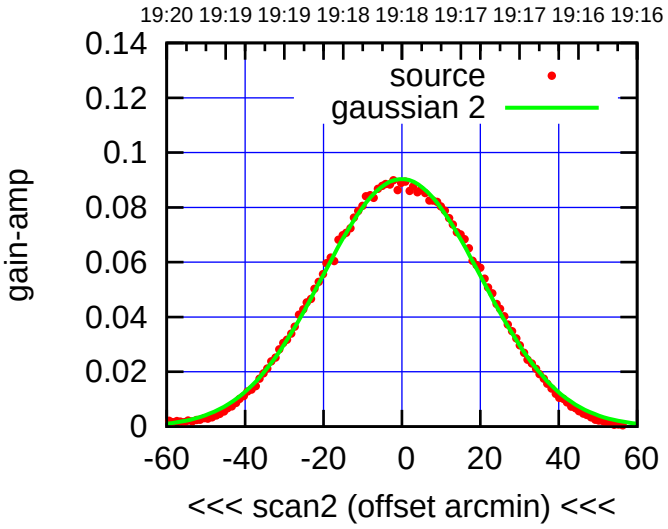


W01-175-AZ OFF= 0.3’

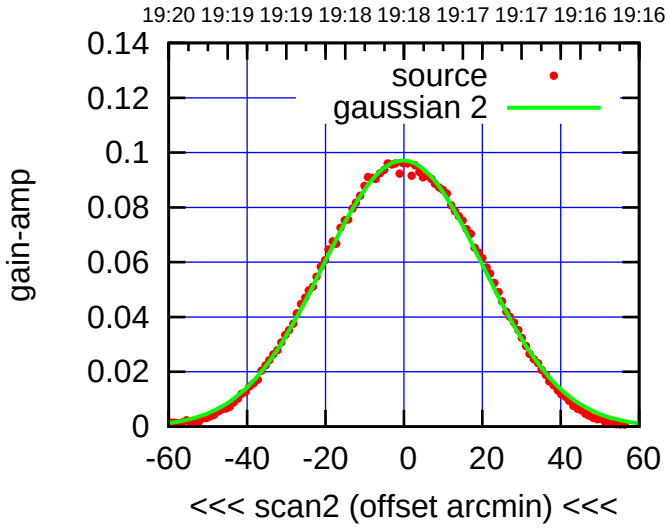


(+30’/m) 24mar2016 19:13

W01-130-AZ OFF= -0.1’

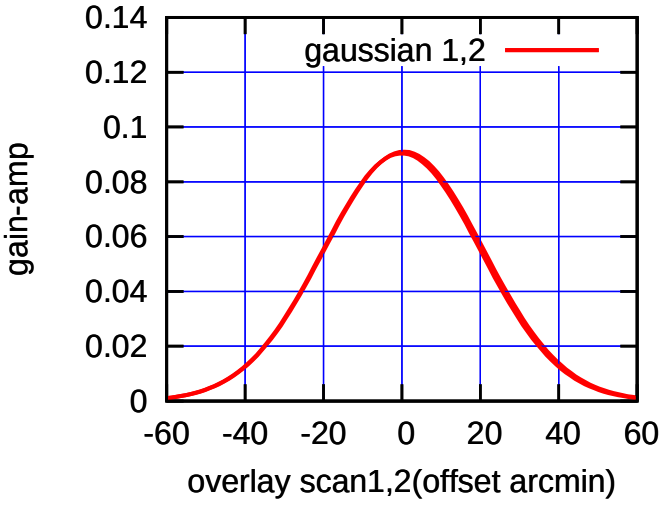


W01-175-AZ OFF= -0.3’

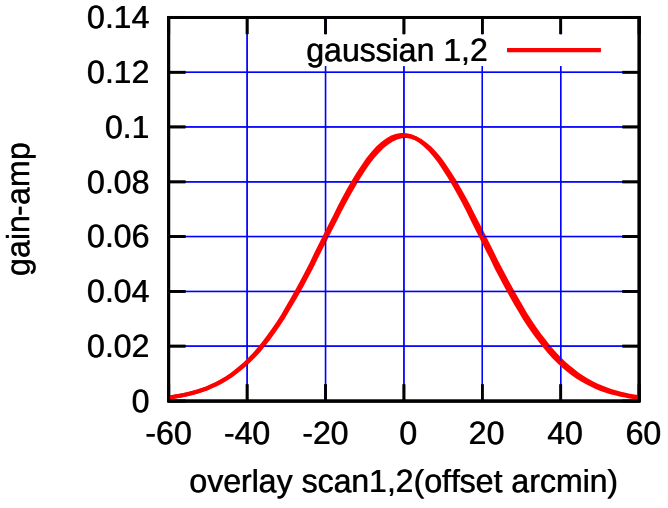


(-30’/m) 24mar2016 19:18

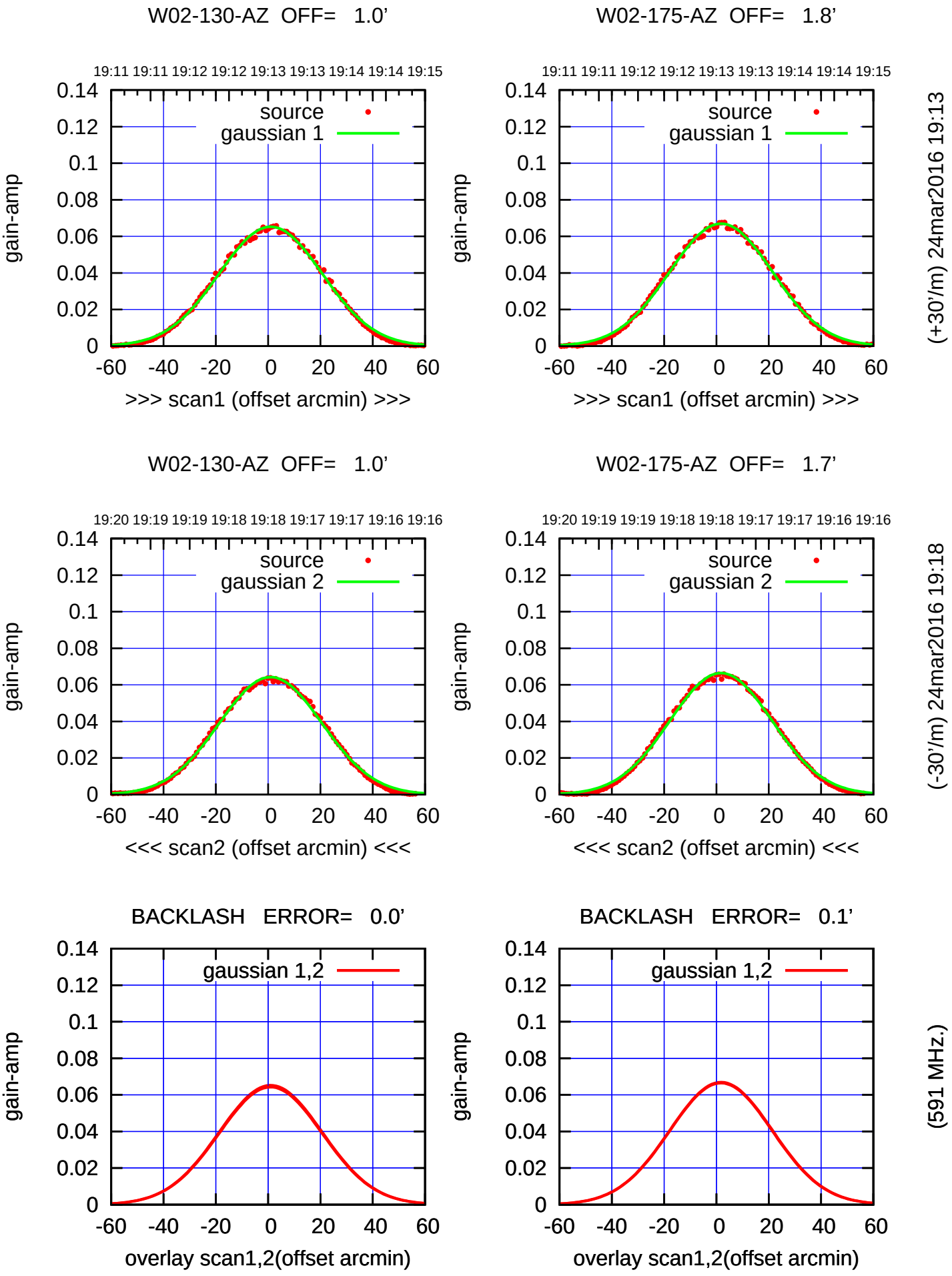
BACKLASH ERROR= 0.6’



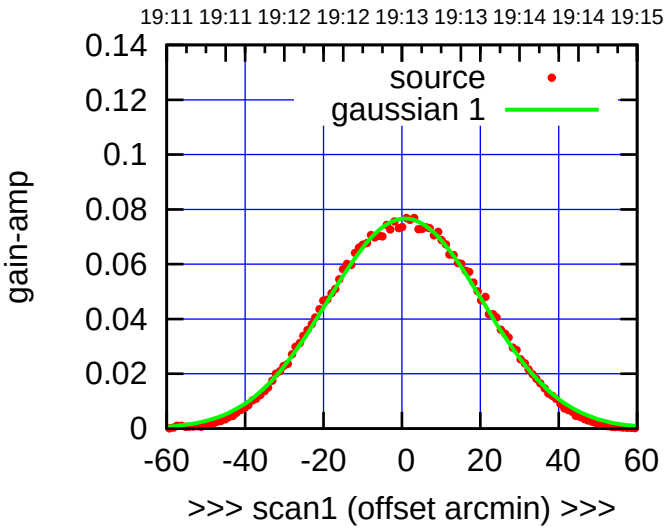
BACKLASH ERROR= 0.6’



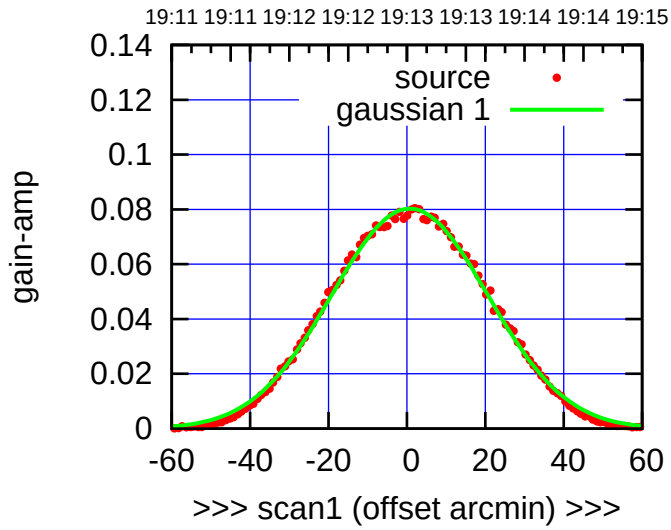
(591 MHz.)


W02-130-AZ OFF= 1.0'
W02-175-AZ OFF= 1.8'
W02-130-AZ OFF= 1.0'
W02-175-AZ OFF= 1.7'
BACKLASH ERROR= 0.0'
BACKLASH ERROR= 0.1'
19:11 19:11 19:12 19:12 19:13 19:13 19:14 19:14 19:15
19:20 19:19 19:19 19:18 19:18 19:17 19:17 19:16 19:16
source
gaussian 1
gaussian 2
gaussian 1,2
gain-amp
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-60 -40 -20 0 20 40 60
>>> scan1 (offset arcmin) >>>
<<< scan2 (offset arcmin) <<<
overlay scan1,2(offset arcmin)
(+30'/m) 24mar2016 19:13
(-30'/m) 24mar2016 19:18
(591 MHz.)

W03-130-AZ OFF= 0.8’

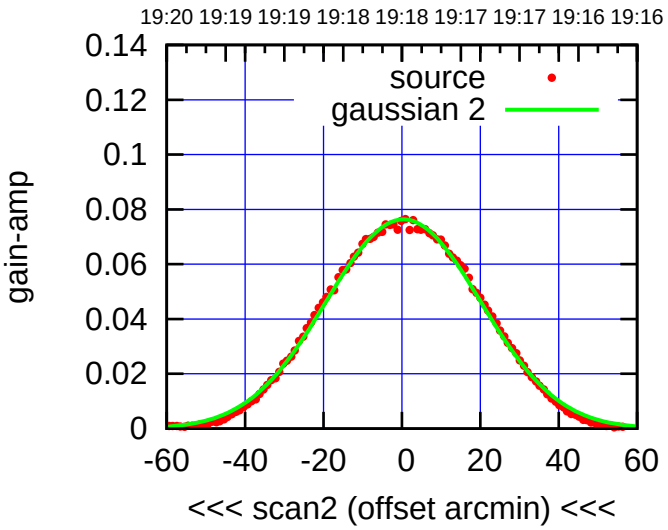


W03-175-AZ OFF= 0.7’

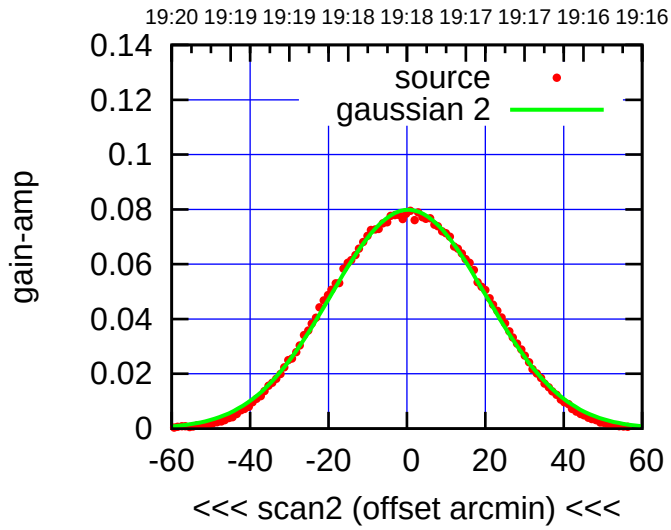


(+30’/m) 24mar2016 19:13

W03-130-AZ OFF= 0.4’

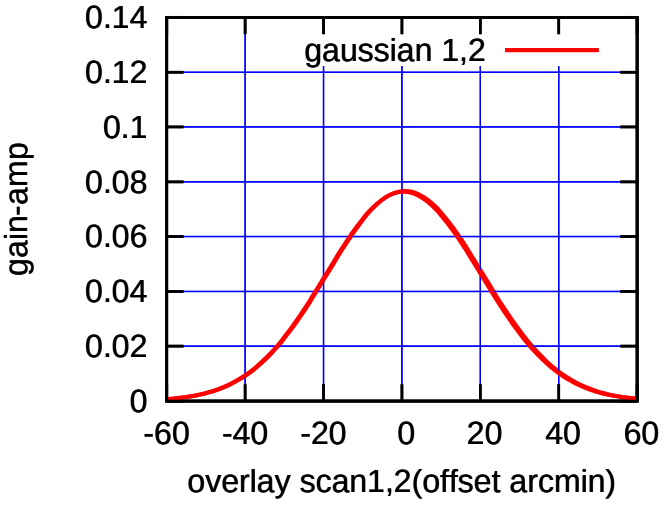


W03-175-AZ OFF= 0.4’

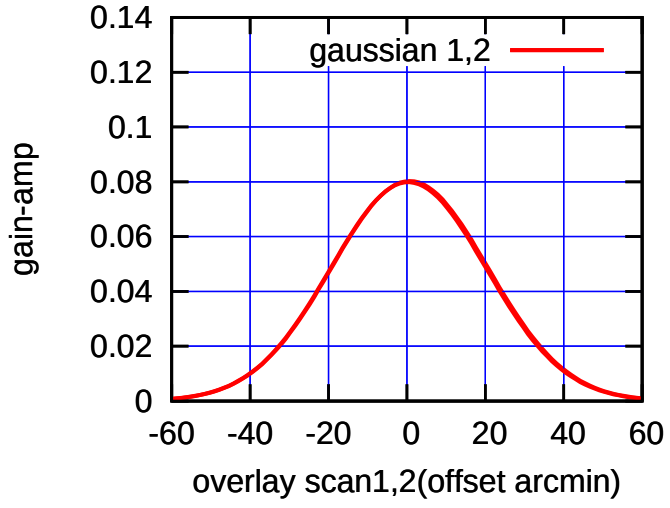


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.4’

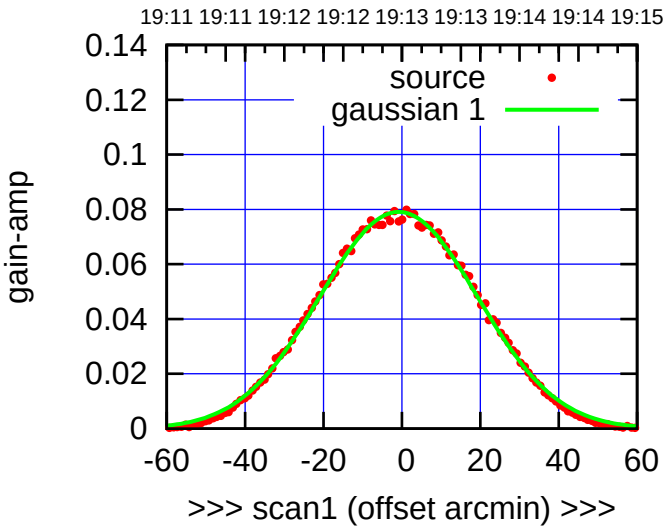


BACKLASH ERROR= 0.3’

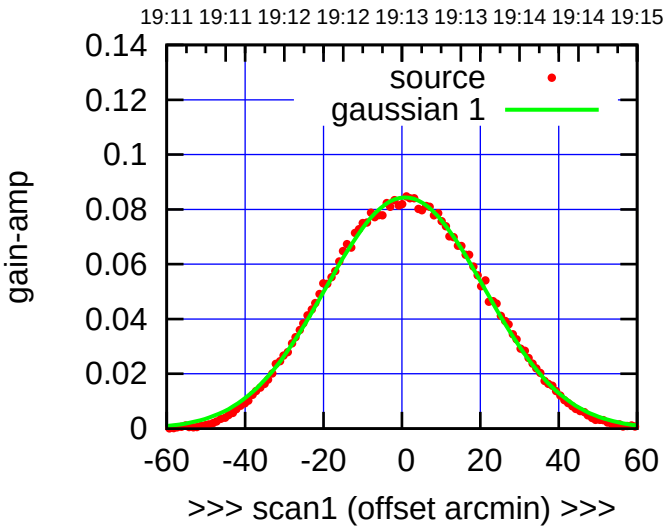


(591 MHz.)

W04-130-AZ OFF= -0.8’

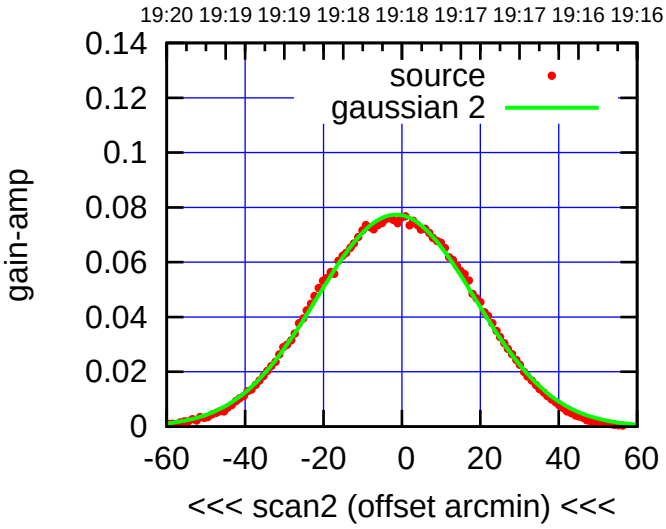


W04-175-AZ OFF= 0.8’

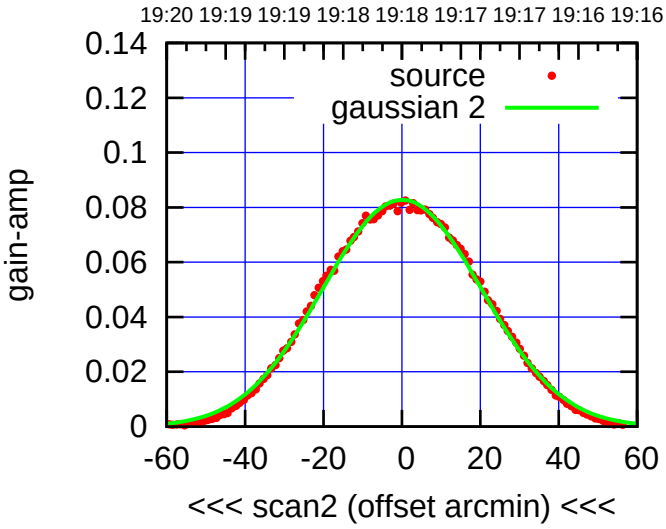


(+30’/m) 24mar2016 19:13

W04-130-AZ OFF= -1.6’

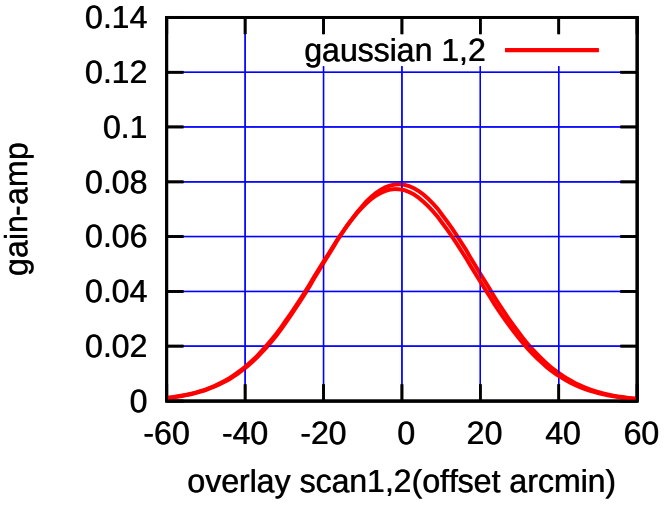


W04-175-AZ OFF= 0.0’

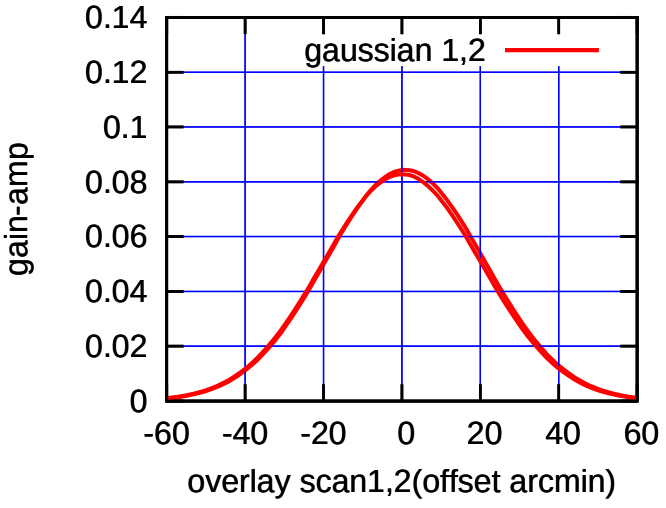


(-30’/m) 24mar2016 19:18

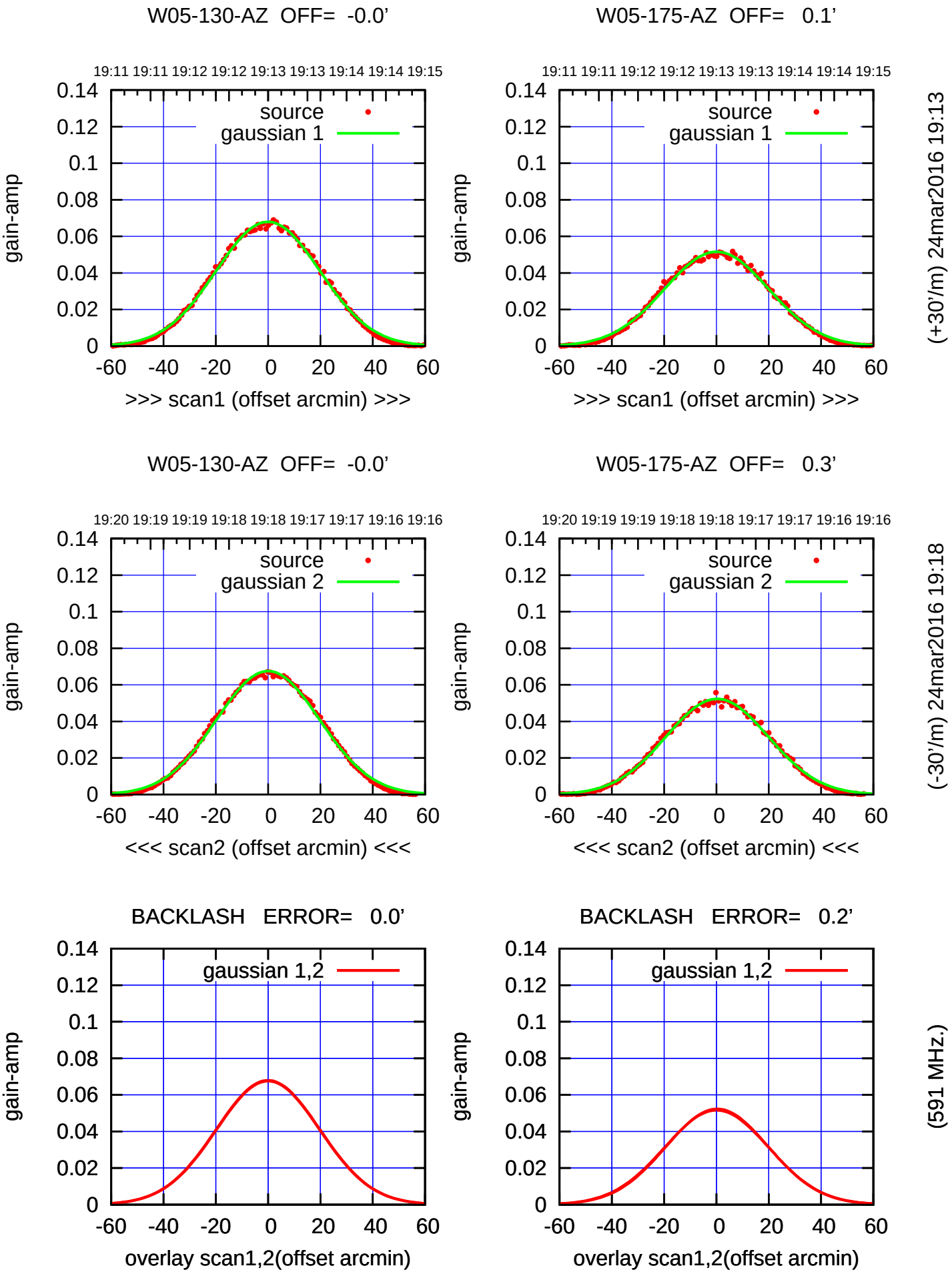
BACKLASH ERROR= 0.9’



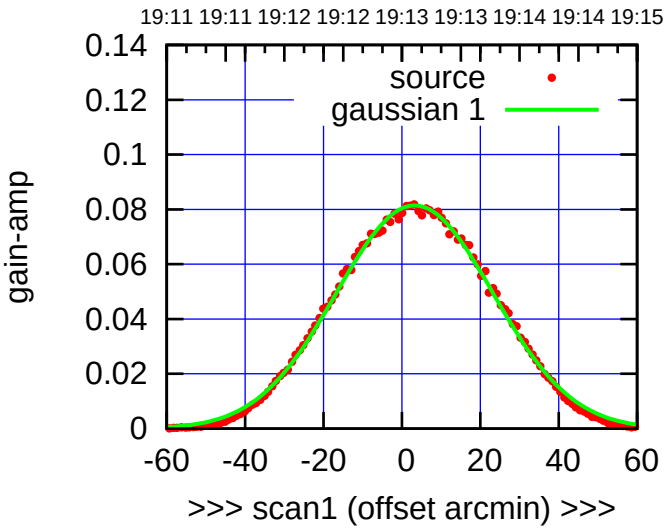
BACKLASH ERROR= 0.9’



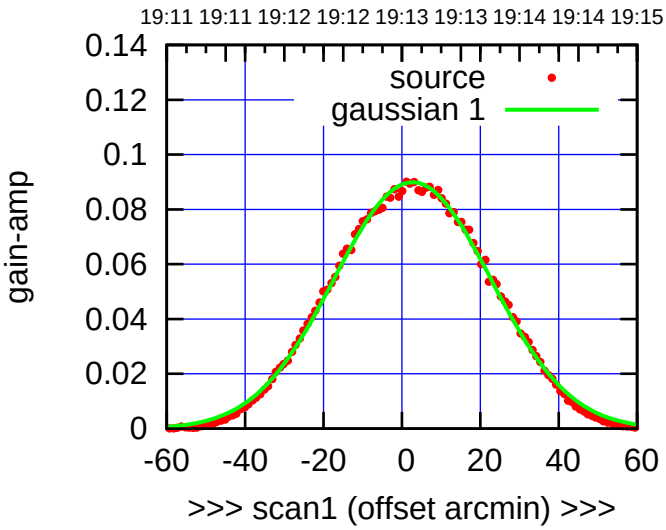
(591 MHz.)


W05-130-AZ OFF= -0.0'
W05-175-AZ OFF= 0.1'
W05-130-AZ OFF= -0.0'
W05-175-AZ OFF= 0.3'
BACKLASH ERROR= 0.0'
BACKLASH ERROR= 0.2'
19:11 19:11 19:12 19:12 19:13 19:13 19:14 19:14 19:15
19:20 19:19 19:19 19:18 19:18 19:17 19:17 19:16 19:16
source
gaussian 1
gaussian 2
gaussian 1,2
gain-amp
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-60 -40 -20 0 20 40 60
>>> scan1 (offset arcmin) >>>
<<< scan2 (offset arcmin) <<<
overlay scan1,2(offset arcmin)
(+30'/m) 24mar2016 19:13
(-30'/m) 24mar2016 19:18
(591 MHz.)

W06-130-AZ OFF= 3.3’

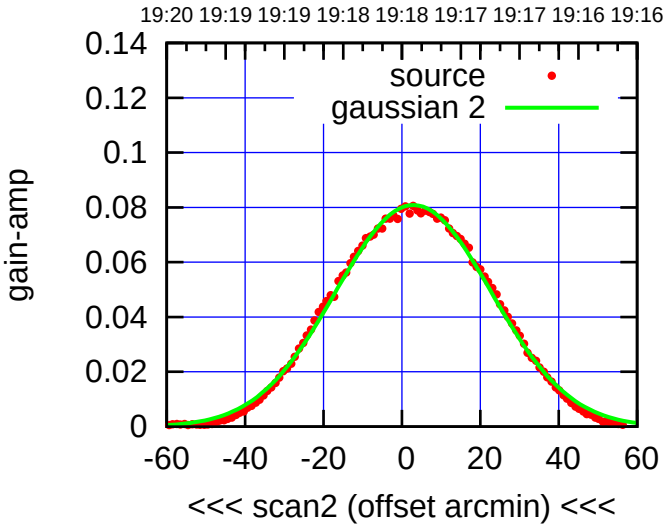


W06-175-AZ OFF= 2.7’

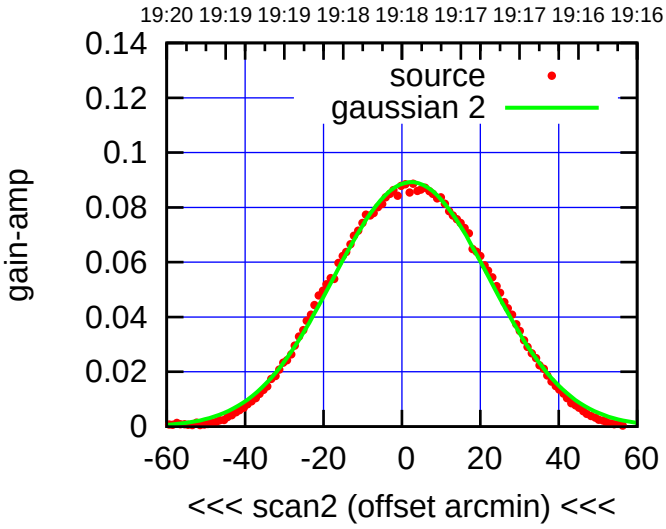


(+30’/m) 24mar2016 19:13

W06-130-AZ OFF= 2.9’

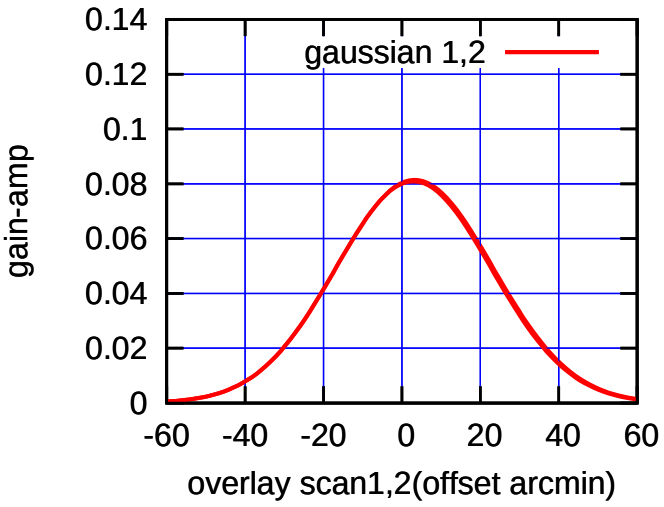


W06-175-AZ OFF= 2.4’

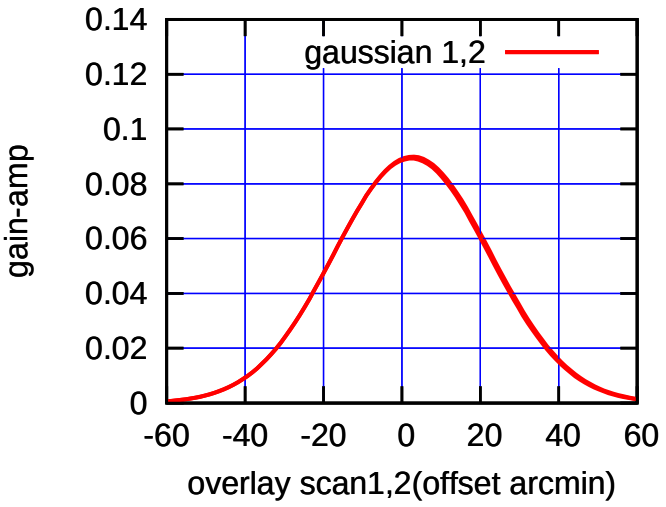


(-30’/m) 24mar2016 19:18

BACKLASH ERROR= 0.4’



BACKLASH ERROR= 0.3’



(591 MHz.)

```
# backlash test   : 24mar2016 19:13, 24mar2016 19:18
# lta file        : /gsbifrdata/24mar/test_610_24mar2016.lta.2
# lta scan no(s)  : 8,9
# lta chan range  : [150,160]
# scan1 start time: 24Mar2016 19:11:00
# scan1 peak  time: 24mar2016 19:13
# scan1 end   time: 24Mar2016 19:15:00
# scan2 start time: 24Mar2016 19:16:00
# scan2 peak  time: 24mar2016 19:18
# scan2 end   time: 24Mar2016 19:20:00
# scan1 rate/speed: 30'/m
# scan2 rate/speed: -30'/m
# xrange posn     : [-60':60']
# yrange gain-amp : [0:0.14]
# frequeny (MHz)  : 591
# axis            : AZ
# elevation(deg)  : 20.8
# antenna flag    : 1 - working, 0 - non working

C00-130-AZ OFF(scan1)=  -0.8   OFF(scan2)=  -0.5   ERROR=   0.3  FLAG= 1
C00-175-AZ OFF(scan1)=   0.3   OFF(scan2)=   0.3   ERROR=   0.0  FLAG= 1
C01-130-AZ OFF(scan1)=  -1.6   OFF(scan2)=  -1.7   ERROR=   0.1  FLAG= 1
C01-175-AZ OFF(scan1)=  -1.8   OFF(scan2)=  -1.8   ERROR=   0.0  FLAG= 1
C02-130-AZ OFF(scan1)=  -0.1   OFF(scan2)=  -0.5   ERROR=   0.4  FLAG= 1
C02-175-AZ OFF(scan1)=  -0.2   OFF(scan2)=  -0.6   ERROR=   0.4  FLAG= 1
C03-130-AZ OFF(scan1)=  -1.0   OFF(scan2)=  -1.9   ERROR=   1.0  FLAG= 1
C03-175-AZ OFF(scan1)=  -0.2   OFF(scan2)=  -1.0   ERROR=   0.9  FLAG= 1
C04-130-AZ OFF(scan1)=   7.5   OFF(scan2)=   7.3   ERROR=   0.2  FLAG= 1
C04-175-AZ OFF(scan1)=   8.8   OFF(scan2)=   8.7   ERROR=   0.1  FLAG= 1
C05-130-AZ OFF(scan1)=   1.0   OFF(scan2)=   0.4   ERROR=   0.6  FLAG= 1
C05-175-AZ OFF(scan1)=   0.6   OFF(scan2)=   0.1   ERROR=   0.5  FLAG= 1
C06-130-AZ OFF(scan1)=   0.7   OFF(scan2)=   0.6   ERROR=   0.1  FLAG= 1
C06-175-AZ OFF(scan1)=   1.3   OFF(scan2)=   1.1   ERROR=   0.2  FLAG= 1
C08-130-AZ OFF(scan1)=   0.1   OFF(scan2)=  -0.2   ERROR=   0.3  FLAG= 1
C08-175-AZ OFF(scan1)=   1.2   OFF(scan2)=   0.9   ERROR=   0.3  FLAG= 1
C09-130-AZ OFF(scan1)=   2.5   OFF(scan2)=   1.8   ERROR=   0.7  FLAG= 1
C09-175-AZ OFF(scan1)=   2.5   OFF(scan2)=   2.0   ERROR=   0.5  FLAG= 1
C10-130-AZ OFF(scan1)=  -1.6   OFF(scan2)=  -1.9   ERROR=   0.3  FLAG= 1
C10-175-AZ OFF(scan1)=  -1.5   OFF(scan2)=  -1.8   ERROR=   0.3  FLAG= 1
C11-130-AZ OFF(scan1)=   2.8   OFF(scan2)=   2.4   ERROR=   0.4  FLAG= 1
C11-175-AZ OFF(scan1)=   3.3   OFF(scan2)=   2.7   ERROR=   0.6  FLAG= 1
C12-130-AZ OFF(scan1)=   2.7   OFF(scan2)=   1.6   ERROR=   1.2  FLAG= 1
C12-175-AZ OFF(scan1)=   2.9   OFF(scan2)=   1.9   ERROR=   1.1  FLAG= 1
C13-130-AZ OFF(scan1)=   1.8   OFF(scan2)=   1.0   ERROR=   0.9  FLAG= 1
C13-175-AZ OFF(scan1)=   1.8   OFF(scan2)=   0.9   ERROR=   1.0  FLAG= 1
C14-130-AZ OFF(scan1)=  -0.3   OFF(scan2)=  -1.6   ERROR=   1.4  FLAG= 1
C14-175-AZ OFF(scan1)=  -1.0   OFF(scan2)=  -1.7   ERROR=   0.7  FLAG= 1
E02-130-AZ OFF(scan1)=   1.2   OFF(scan2)=   0.2   ERROR=   1.1  FLAG= 1
E02-175-AZ OFF(scan1)=   1.7   OFF(scan2)=   0.7   ERROR=   1.1  FLAG= 1
E03-130-AZ OFF(scan1)=   1.7   OFF(scan2)=   1.1   ERROR=   0.6  FLAG= 1
E03-175-AZ OFF(scan1)=   0.2   OFF(scan2)=  -0.3   ERROR=   0.5  FLAG= 1
E04-130-AZ OFF(scan1)=   0.0   OFF(scan2)=  -0.5   ERROR=   0.5  FLAG= 1
E04-175-AZ OFF(scan1)=   0.7   OFF(scan2)=   0.2   ERROR=   0.5  FLAG= 1
E05-130-AZ OFF(scan1)=   0.8   OFF(scan2)=   0.3   ERROR=   0.5  FLAG= 1
E05-175-AZ OFF(scan1)=   1.2   OFF(scan2)=   0.7   ERROR=   0.5  FLAG= 1
E06-130-AZ OFF(scan1)=  -4.8   OFF(scan2)=  -2.7   ERROR=   2.2  FLAG= 1
E06-175-AZ OFF(scan1)=  -4.5   OFF(scan2)=  -2.4   ERROR=   2.2  FLAG= 1
S01-130-AZ OFF(scan1)=   4.9   OFF(scan2)=   4.6   ERROR=   0.3  FLAG= 1
S01-175-AZ OFF(scan1)=   5.5   OFF(scan2)=   5.4   ERROR=   0.1  FLAG= 1
S02-130-AZ OFF(scan1)=   0.8   OFF(scan2)=   0.9   ERROR=   0.1  FLAG= 1
S02-175-AZ OFF(scan1)=   1.3   OFF(scan2)=   1.4   ERROR=   0.1  FLAG= 1
S03-130-AZ OFF(scan1)=  -2.3   OFF(scan2)=  -2.9   ERROR=   0.6  FLAG= 1
S03-175-AZ OFF(scan1)=  -2.2   OFF(scan2)=  -2.8   ERROR=   0.6  FLAG= 1
S04-130-AZ OFF(scan1)=   1.4   OFF(scan2)=   0.4   ERROR=   1.1  FLAG= 1
S04-175-AZ OFF(scan1)=   1.1   OFF(scan2)=   0.1   ERROR=   1.1  FLAG= 1
S06-130-AZ OFF(scan1)=   0.0   OFF(scan2)=   0.0   ERROR=   0.0  FLAG= 0
S06-175-AZ OFF(scan1)=   0.0   OFF(scan2)=   0.0   ERROR=   0.0  FLAG= 0
```

```
W01-130-AZ OFF(scan1)=   0.5   OFF(scan2)=  -0.1   ERROR=   0.6  FLAG= 1
W01-175-AZ OFF(scan1)=   0.3   OFF(scan2)=  -0.3   ERROR=   0.6  FLAG= 1
W02-130-AZ OFF(scan1)=   1.0   OFF(scan2)=   1.0   ERROR=   0.0  FLAG= 1
W02-175-AZ OFF(scan1)=   1.8   OFF(scan2)=   1.7   ERROR=   0.1  FLAG= 1
W03-130-AZ OFF(scan1)=   0.8   OFF(scan2)=   0.4   ERROR=   0.4  FLAG= 1
W03-175-AZ OFF(scan1)=   0.7   OFF(scan2)=   0.4   ERROR=   0.3  FLAG= 1
W04-130-AZ OFF(scan1)=  -0.8   OFF(scan2)=  -1.6   ERROR=   0.9  FLAG= 1
W04-175-AZ OFF(scan1)=   0.8   OFF(scan2)=   0.0   ERROR=   0.9  FLAG= 1
W05-130-AZ OFF(scan1)=  -0.0   OFF(scan2)=  -0.0   ERROR=   0.0  FLAG= 1
W05-175-AZ OFF(scan1)=   0.1   OFF(scan2)=   0.3   ERROR=   0.2  FLAG= 1
W06-130-AZ OFF(scan1)=   3.3   OFF(scan2)=   2.9   ERROR=   0.4  FLAG= 1
W06-175-AZ OFF(scan1)=   2.7   OFF(scan2)=   2.4   ERROR=   0.3  FLAG= 1
```