

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10892 - L2 Version 4  
Chandra X-Ray Center

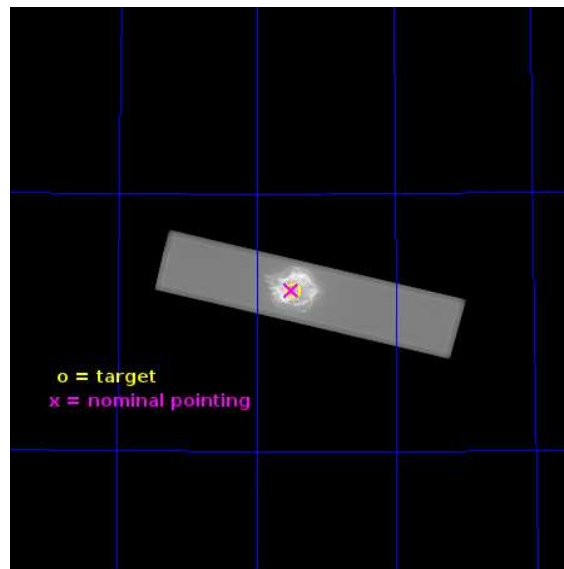
L2 Processing Date : Jun 29 2013

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# 1 Front

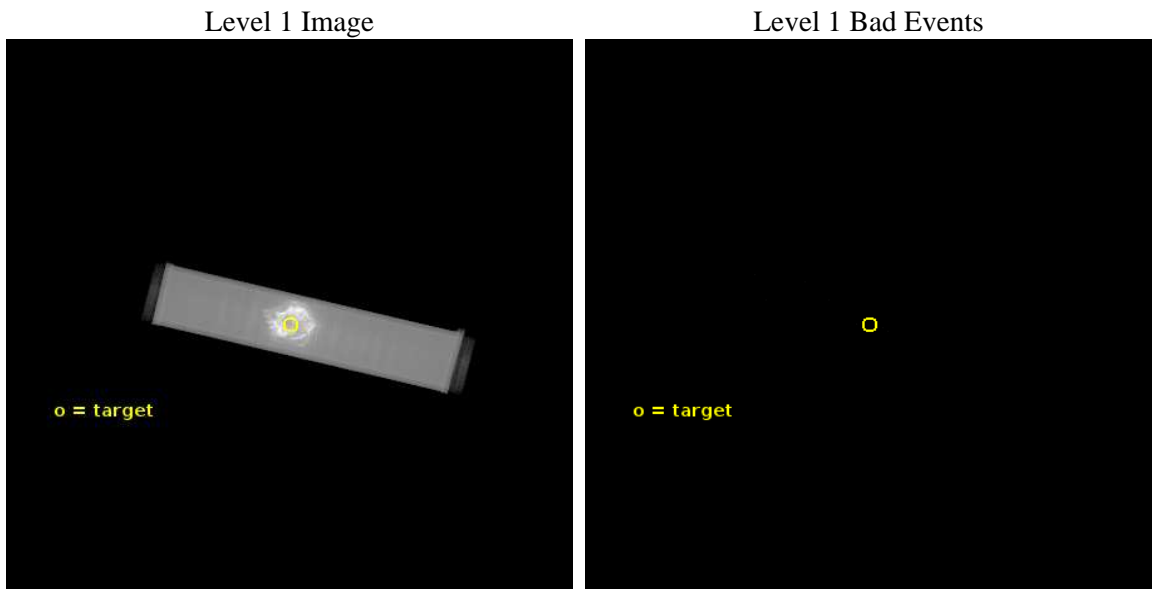
seq_num	501151	Sequence number
obs_id	10892	Observation id
title	The Spin and Magnetic Moment of the Neutron Star in Cassiopeia A	P
observer	Prof. Deepto Chakrabarty	Principal investigator
object	Cas A CCO	Source name
ra_targ	350.86625	Observer's specified target RA [deg]
dec_targ	58.811806	Observer's specified target Dec [deg]
ra_nom	350.87523234655	Nominal RA [deg]
dec_nom	58.812873214433	Nominal Dec [deg]
roll_nom	13.659646416551	Nominal Roll [deg]
revision	4	Processing version of data
ontime	125735.60312706	[s]
livetime	123990.61980871	Ontime multiplied by DTCOR
l2events	17593827	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	125604.000000	[s] Scheduled observation exposure time
ascdsver	10	Processing system revision	ontime	125735.73125267	[s]
caldsver	4.5.7	&#160	l1events	20382149	Number of level 1 events
date	2013-06-29T05:27:23	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

	segment 1	segment 2	segment 3
level 1 events	11059	20371057	33
rejected events	24	40918	9
rejected %	0%	0%	27%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	350.837085	350.8752323465484
[deg] Pointing Dec	58.792026	58.81287321443323
[deg] Pointing Roll	13.624948	13.65964641655085
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	354430996.184000	354429269.12083
Observation start date	2009-03-26T05:02:10	2009-03-26T04:34:29
[s] Observation end time (MET)	354556600.184000	354557717.51472
Observation end date	2009-03-27T15:55:34	2009-03-27T16:15:17

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect

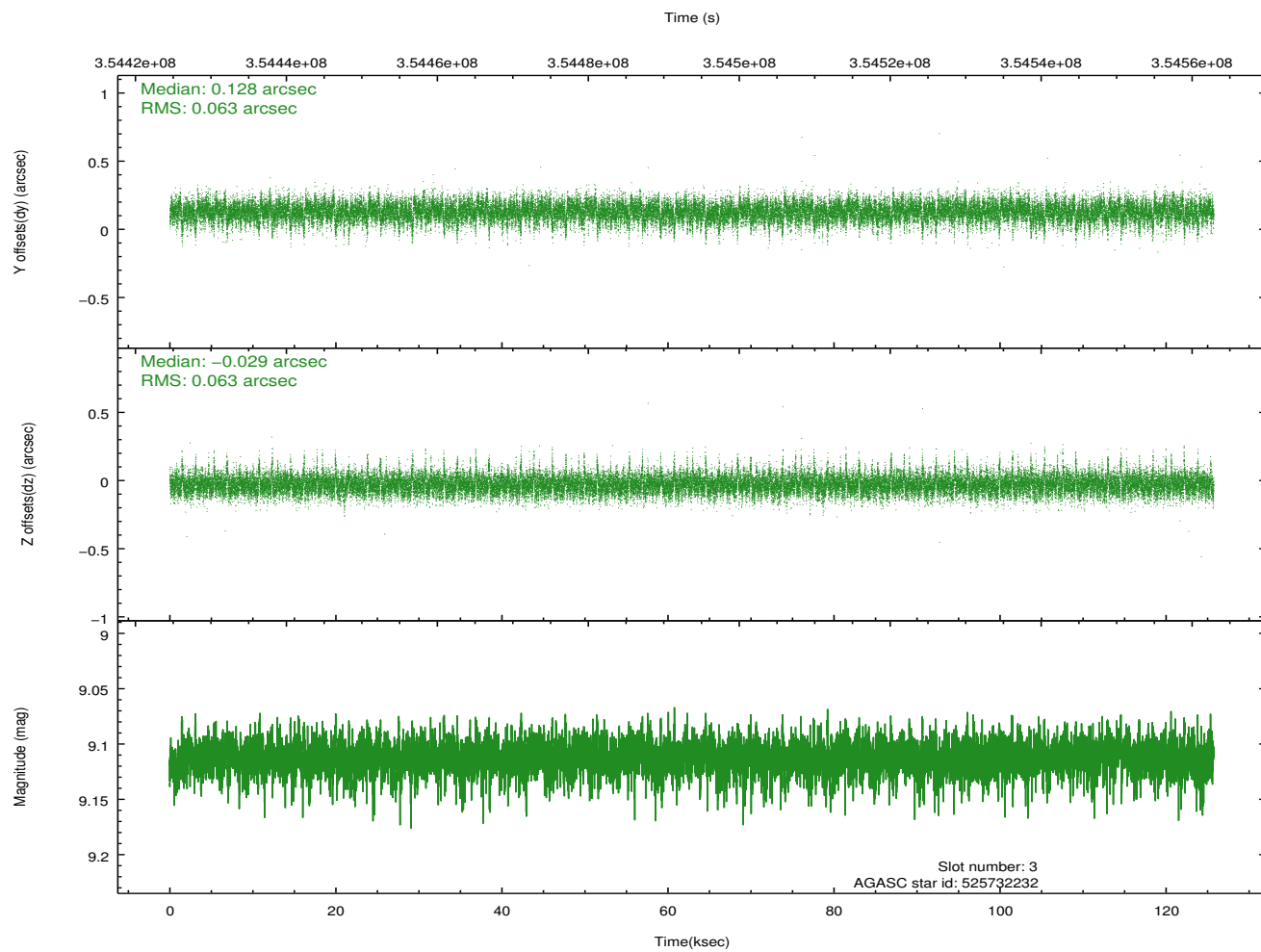


### Slot Statistics

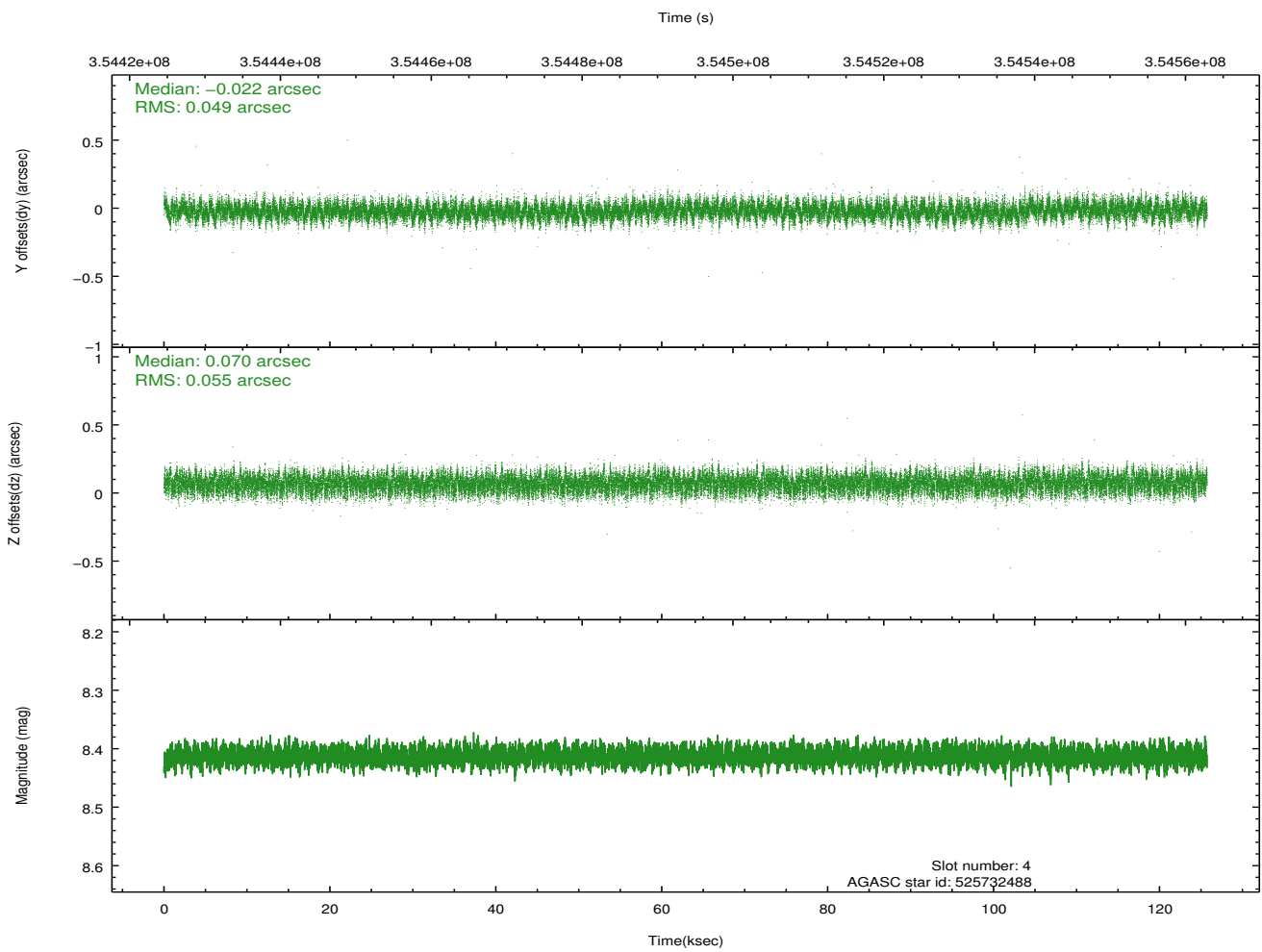
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	30668	0.037	-0.170	0.016	0.023	0.000000	0.000000	-1169.89	-465.71
1	FID	HRC-S-3	7.01	30666	0.105	-0.067	0.023	0.032	0.000000	0.000000	-1172.61	563.90
2	FID	HRC-S-4	6.94	30657	0.240	-0.060	0.018	0.032	0.000000	0.000000	1228.48	566.56
3	GUIDE	525732232	9.11	61250	0.128	-0.029	0.091	0.159	351.669550	58.757012	1484.38	-480.33
4	GUIDE	525732488	8.41	61279	-0.022	0.070	0.078	0.126	350.087090	58.516915	-1601.46	-622.50
5	GUIDE	525735976	8.83	61298	-0.008	0.019	0.094	0.149	350.142956	58.277622	-1711.48	-1483.54
6	GUIDE	525736400	9.06	61271	0.092	-0.082	0.095	0.156	350.974563	59.175145	571.54	1281.02
7	GUIDE	525732528	9.34	61100	-0.188	0.020	0.115	0.188	351.607241	59.298932	1807.40	1448.32

## 2.4 Star Slots

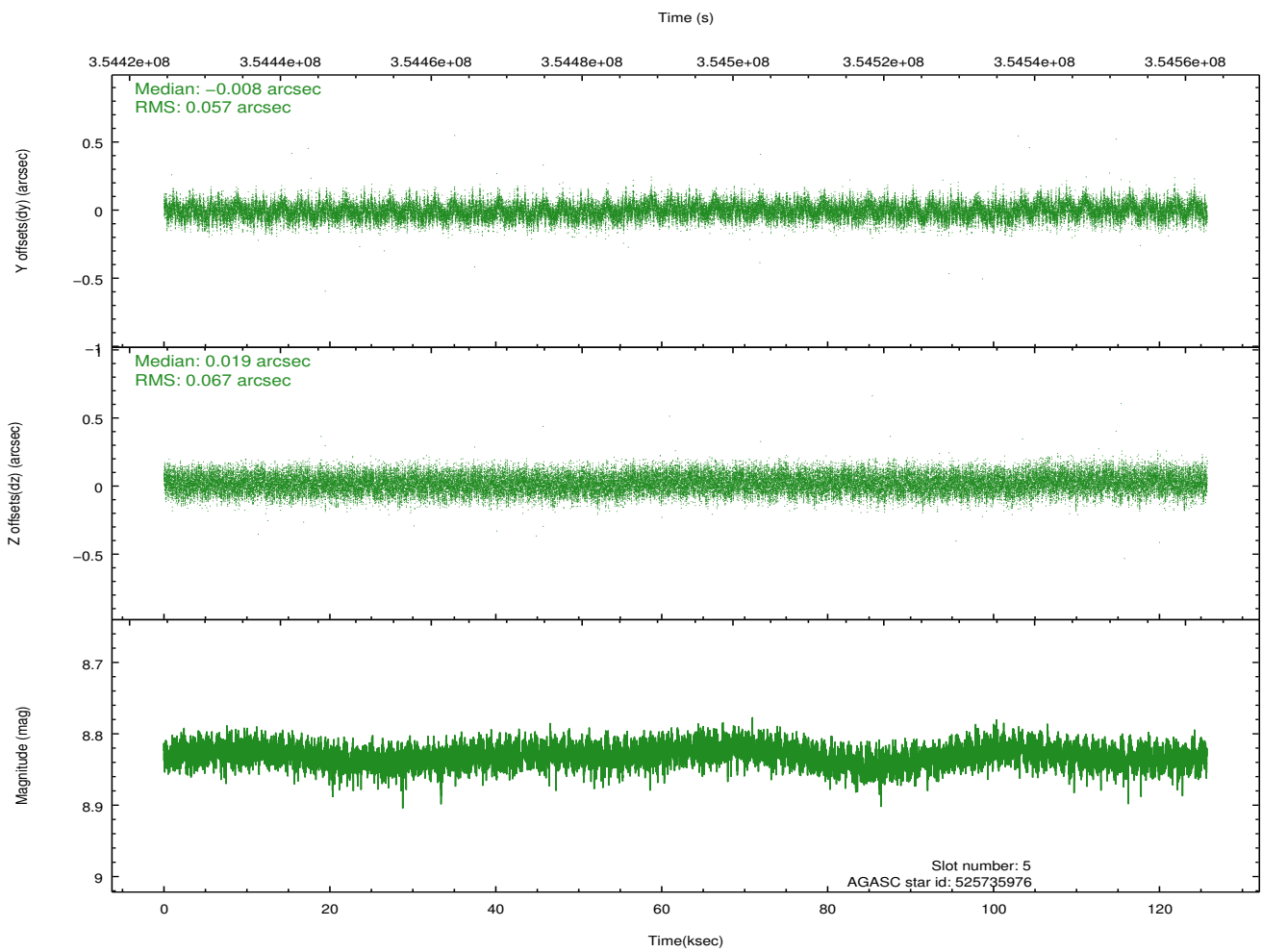
### 2.4.1 Slot 3



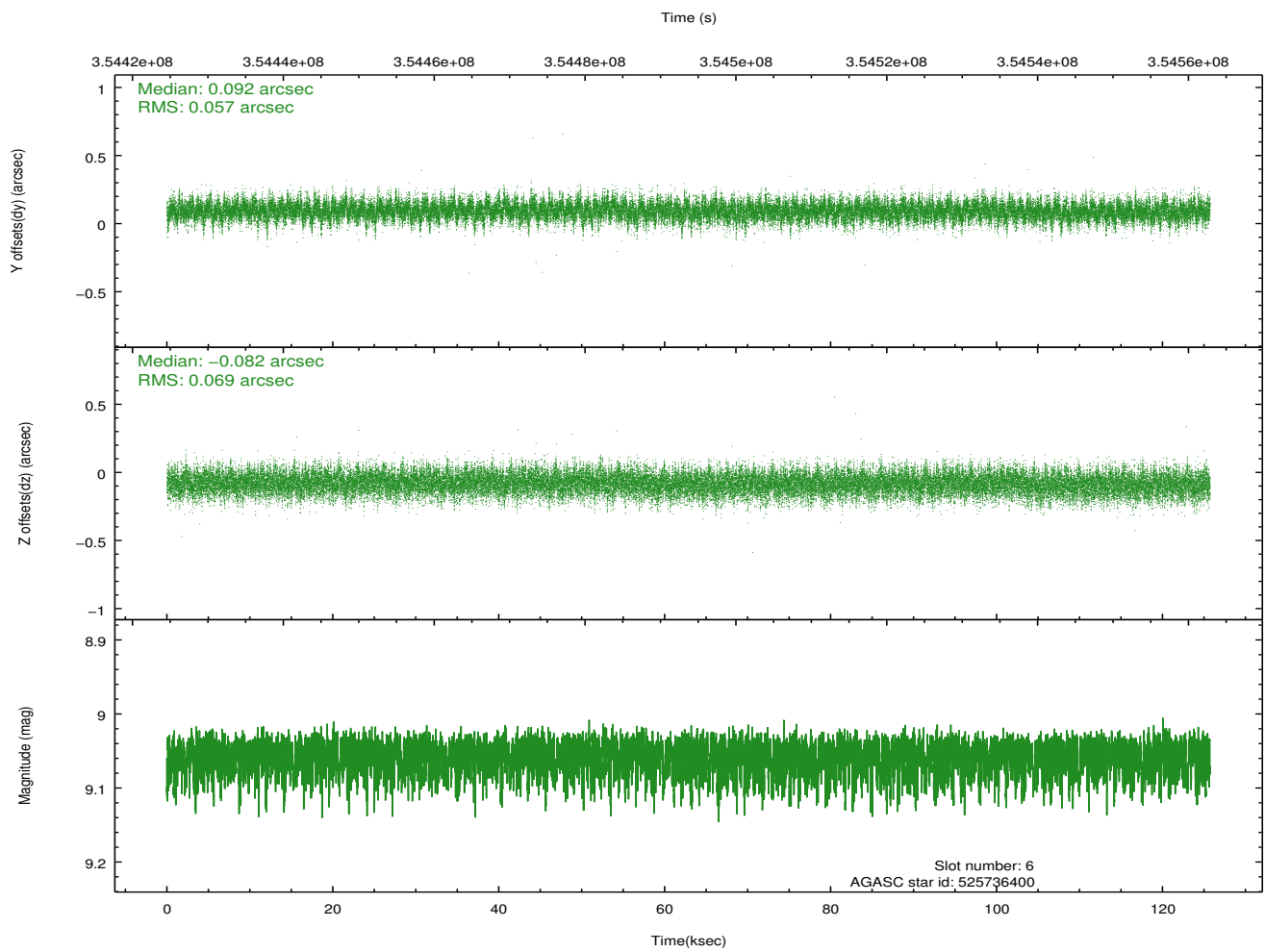
## 2.4.2 Slot 4



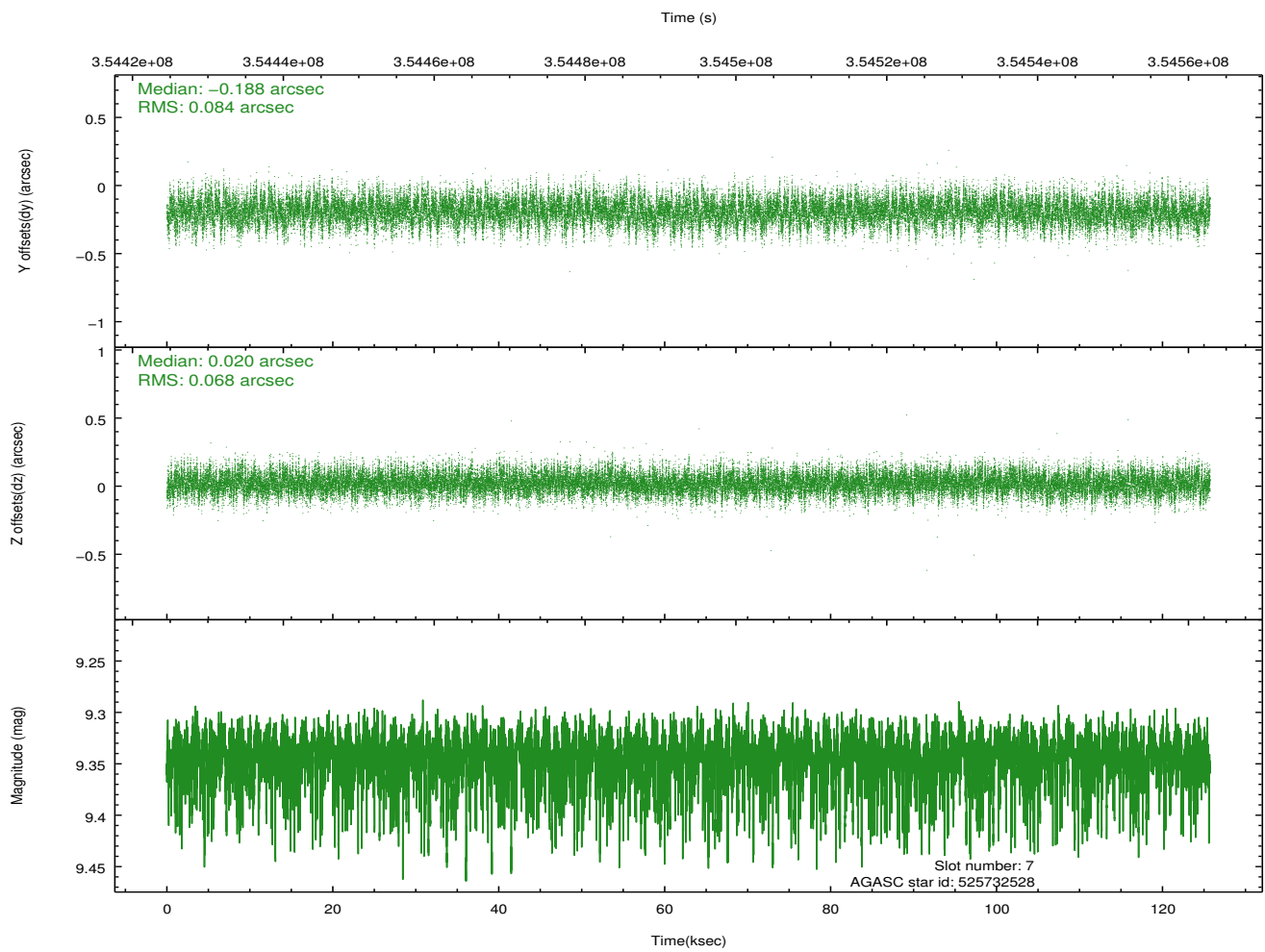
### 2.4.3 Slot 5



## 2.4.4 Slot 6

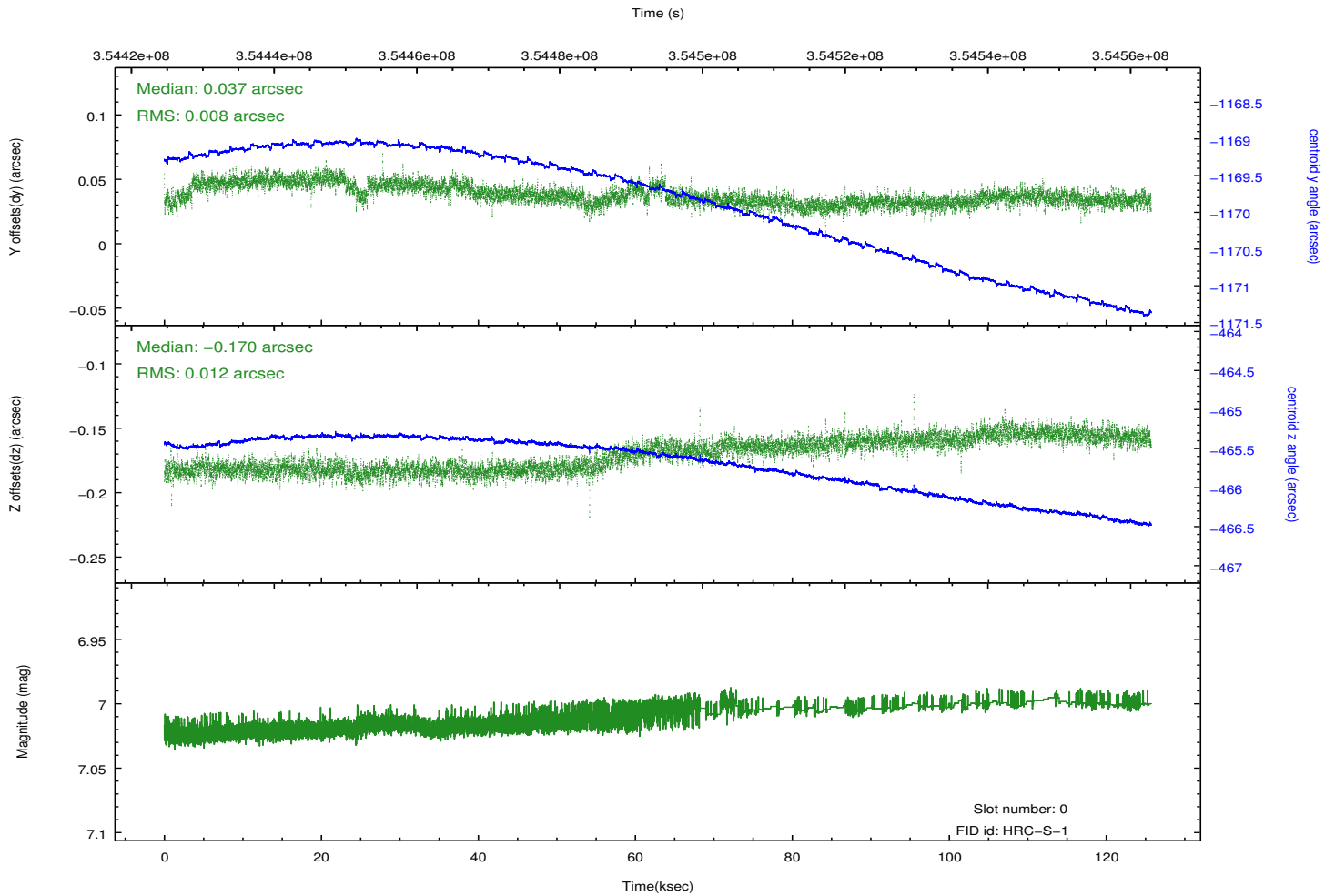
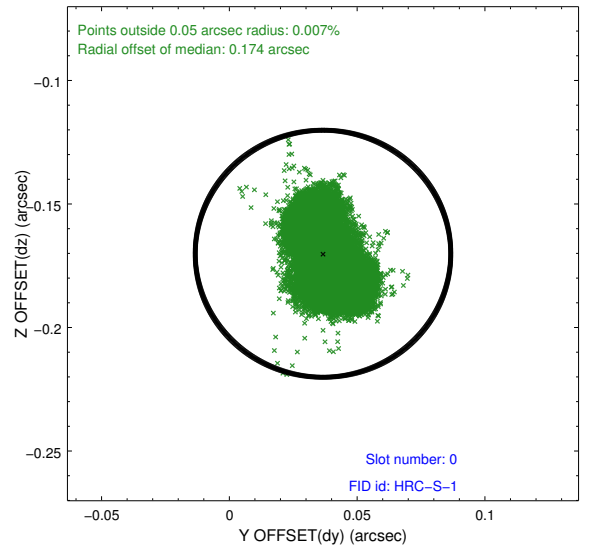
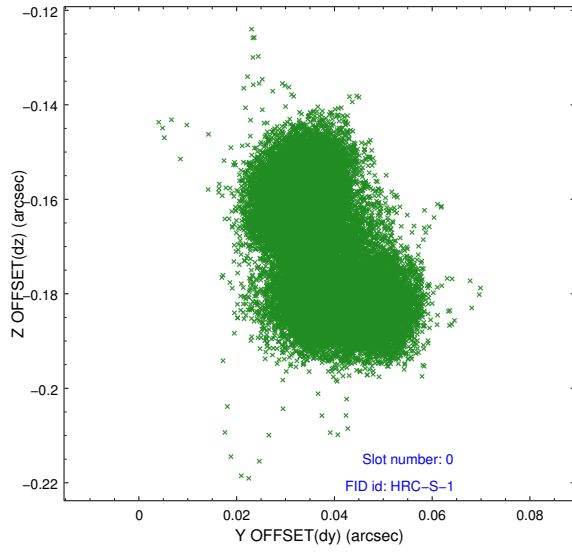


## 2.4.5 Slot 7

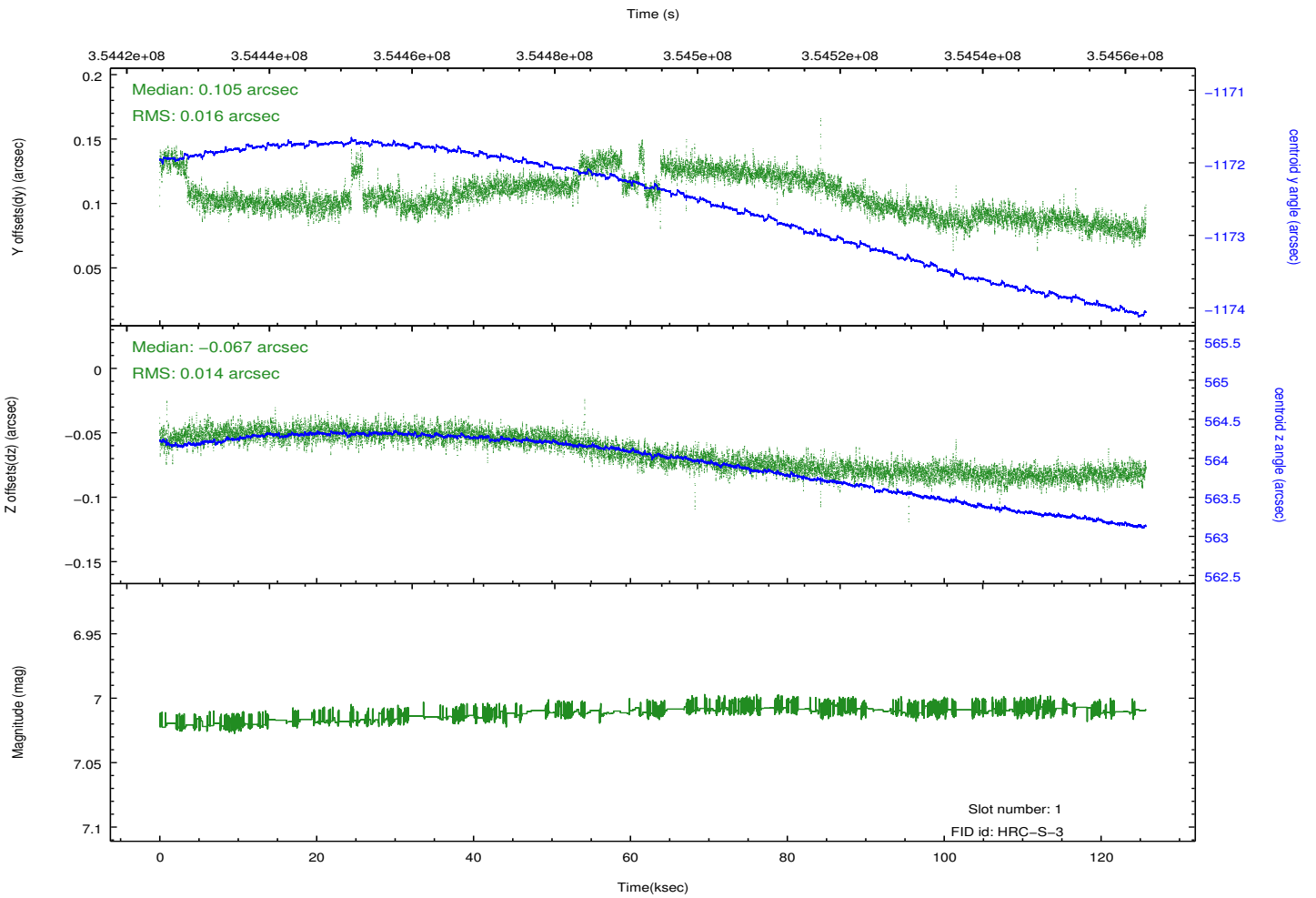
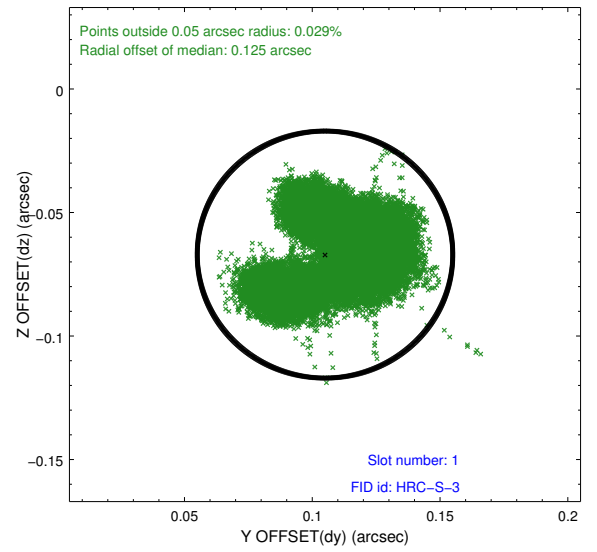
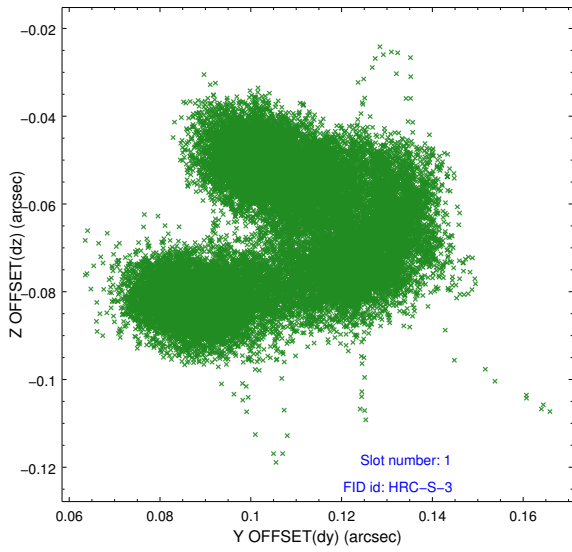


## 2.5 FID Slots

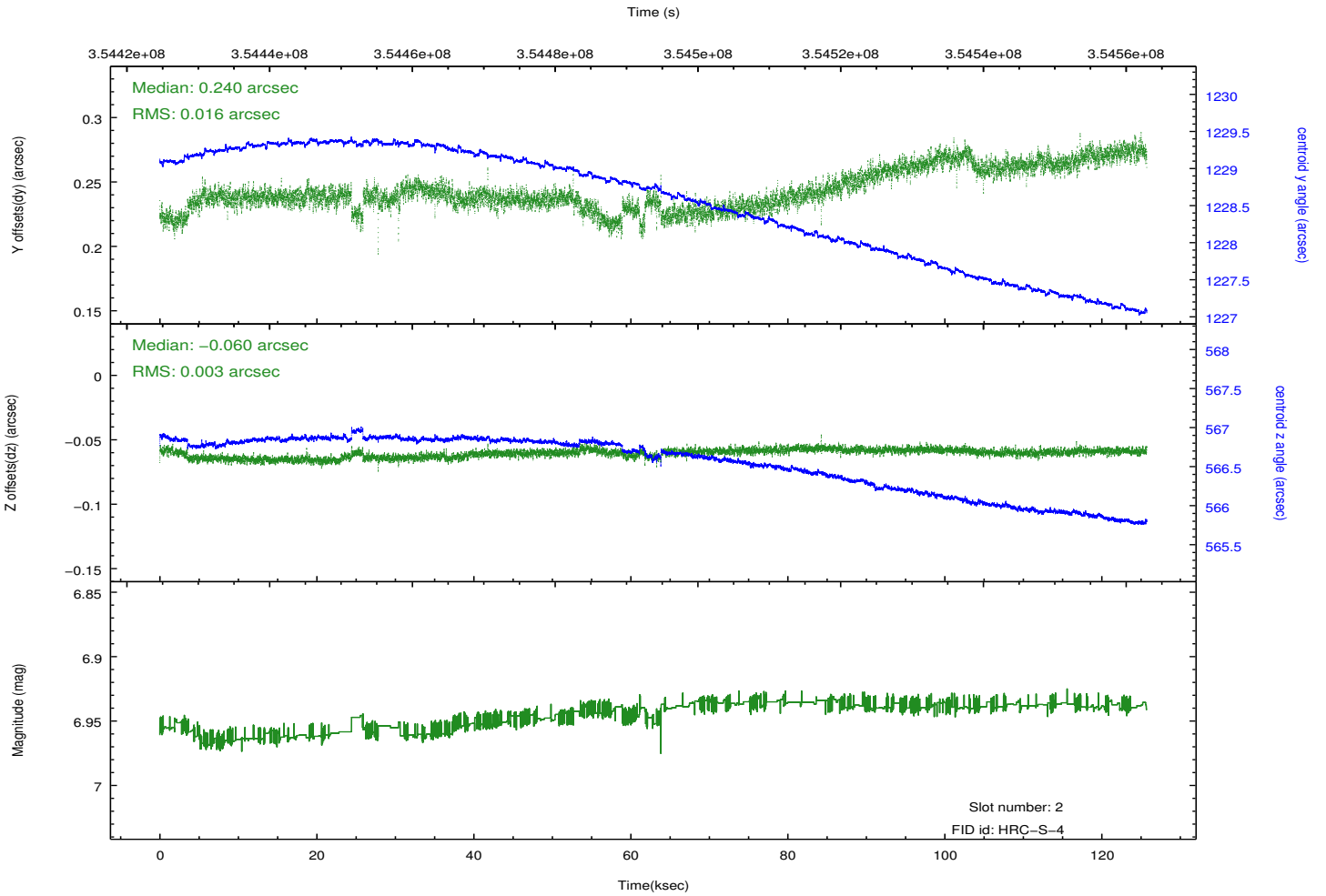
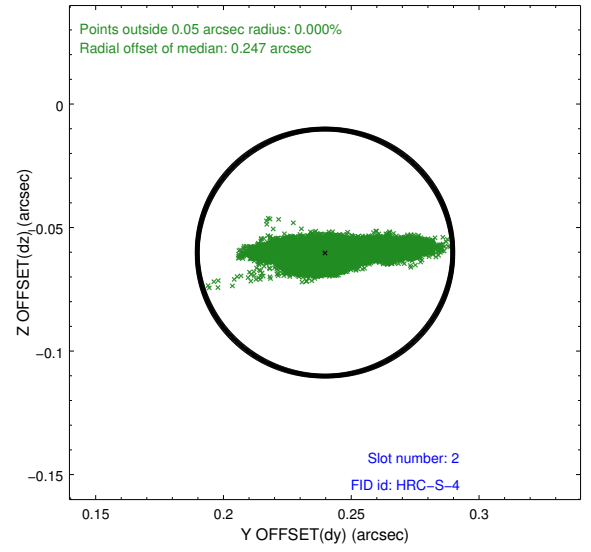
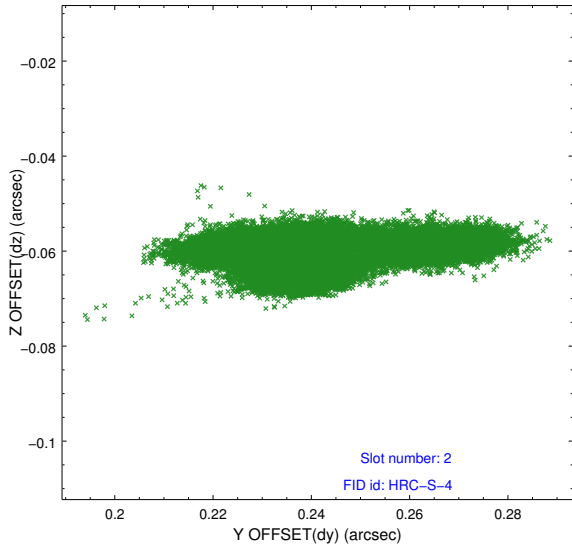
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	125.735731

## A.2 Comments