

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 5542 - L2 Version 3
Chandra X-Ray Center

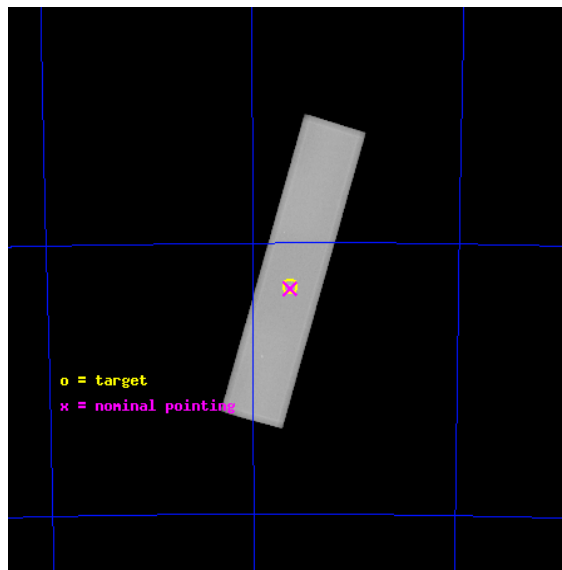
L2 Processing Date : Aug 11 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

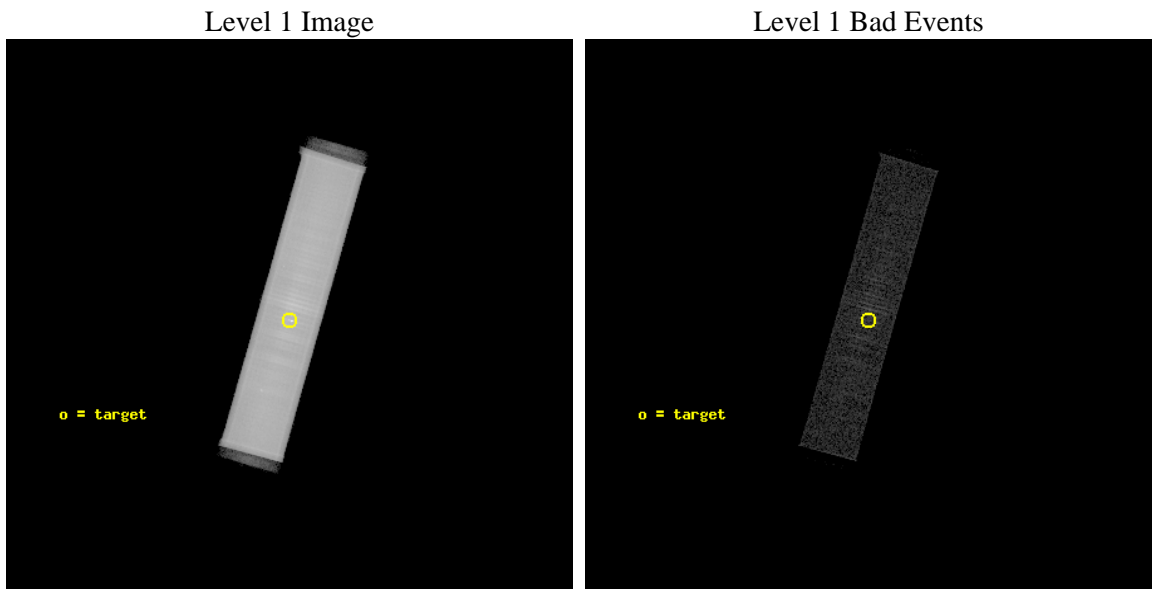
seq_num	500535	Sequence number
obs_id	5542	Observation id
title	Search for Sub-Millisecond Pulsars in 47 Tuc	Proposal title
observer	Prof. Robert Rutledge	Principal investigator
object	47 Tuc	Source name
ra_targ	6.021667	Observer's specified target RA [deg]
dec_targ	-72.080528	Observer's specified target Dec [deg]
ra_nom	6.025477868103	Nominal RA [deg]
dec_nom	-72.085076797975	Nominal Dec [deg]
roll_nom	285.88440579737	Nominal Roll [deg]
revision	3	Processing version of data
ontime	50162.7335715	[s]
livetime	49758.25001101	Ontime multiplied by DTCOR
l2events	2539588	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	50000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	50162.7335715	[s]
caldbver	4.5.1.1	 	l1events	3568851	Number of level 1 events
date	2012-08-10T19:37:18	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

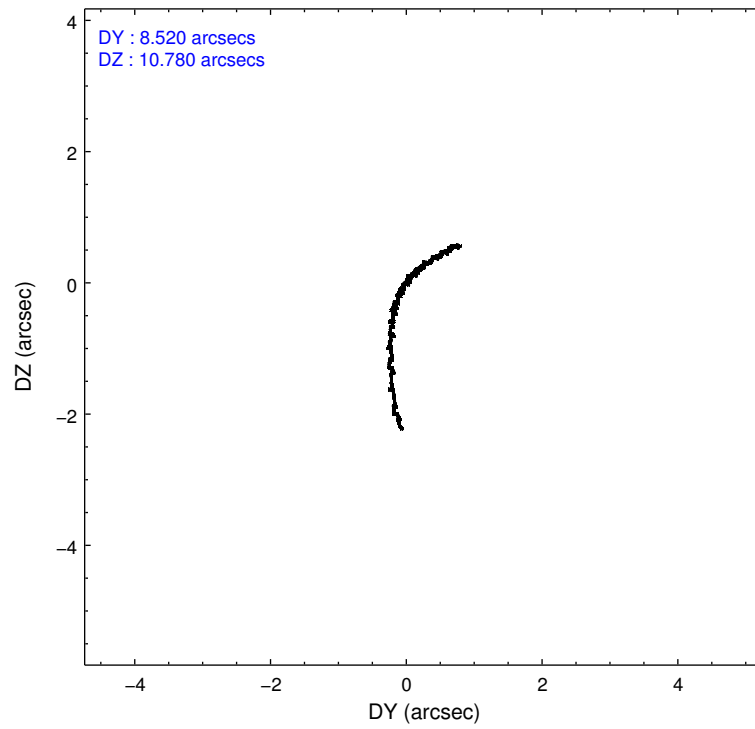
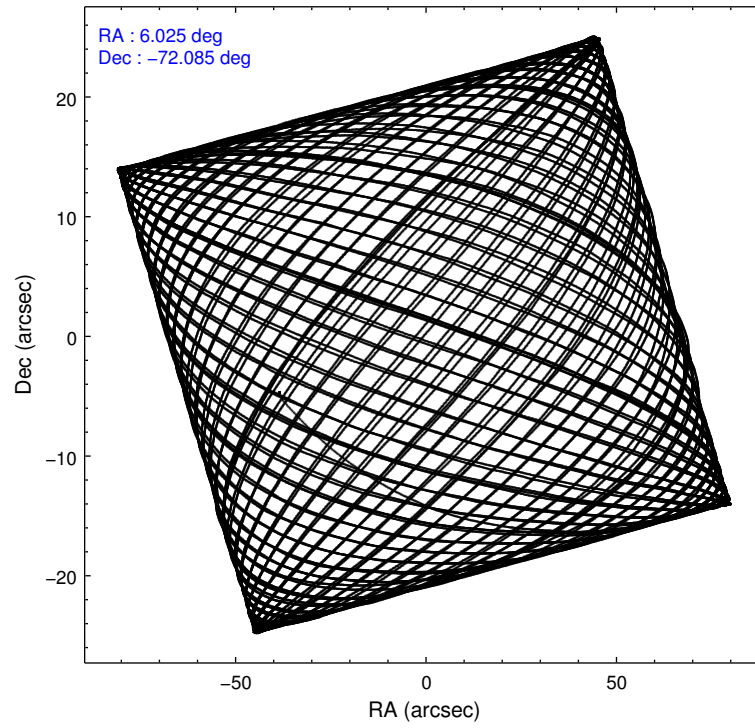
Level 1 Events

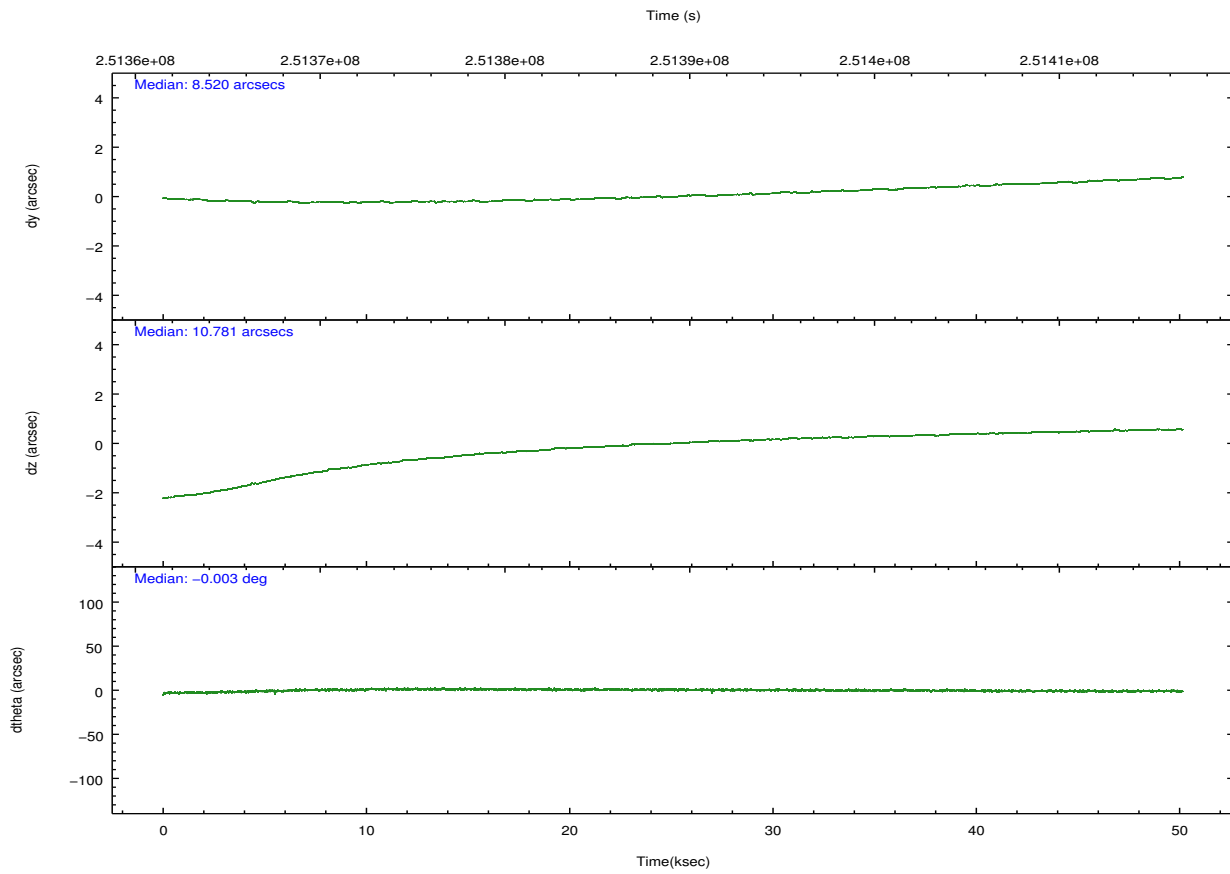
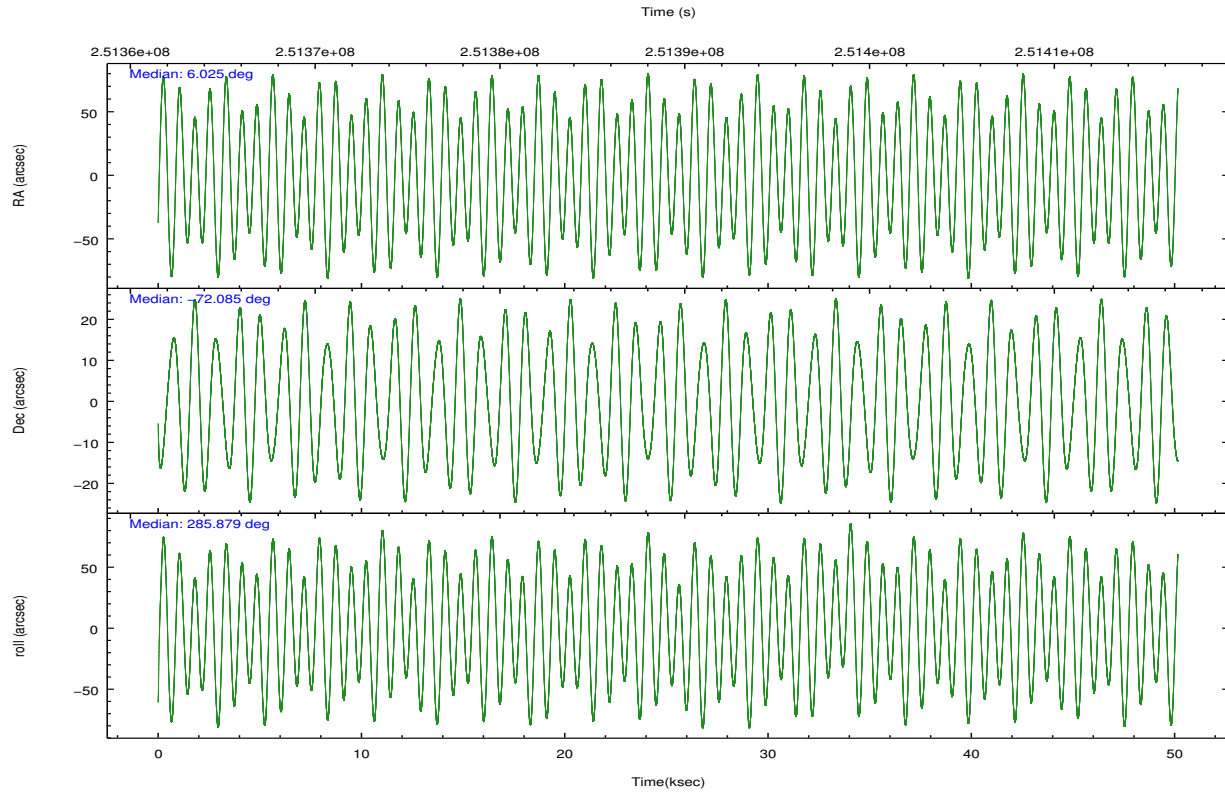
	segment 1	segment 2	segment 3
level 1 events	3771	3565072	8
rejected events	121	110251	0
rejected %	3%	3%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	5.955598	6.025477868103017			
[deg] Pointing Dec	-72.066175	-72.08507679797535			
[deg] Pointing Roll	285.750585	285.8844057973722			
[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)	251364179.184000	251363050.30263			
Observation start date	2005-12-19T07:21:55	2005-12-19T07:04:10			
[s] Observation end time (MET)	251414179.184000	251415068.54253			
Observation end date	2005-12-19T21:15:15	2005-12-19T21:31:08			

2.3 Aspect



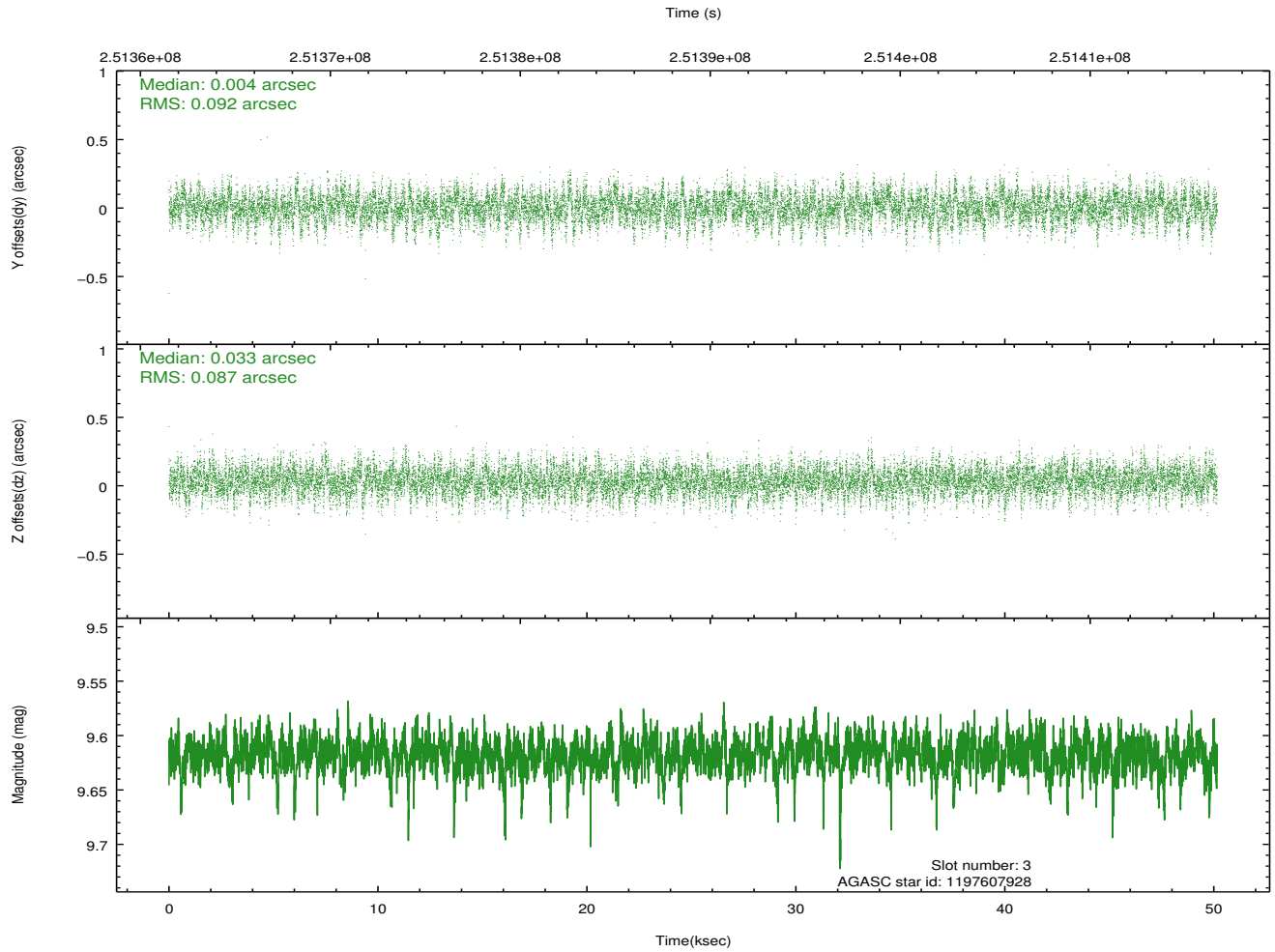
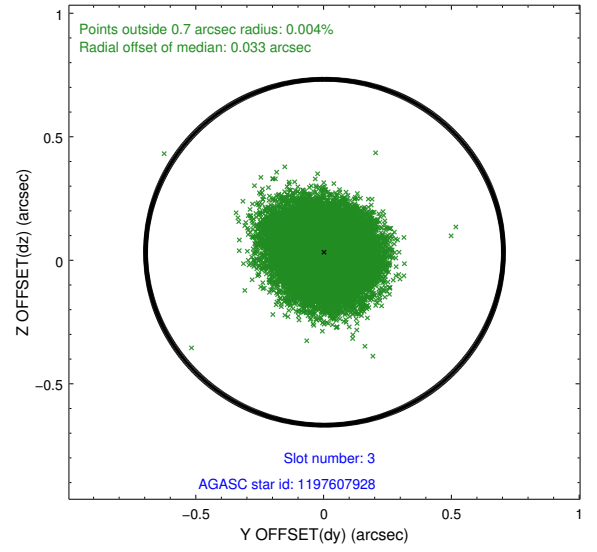
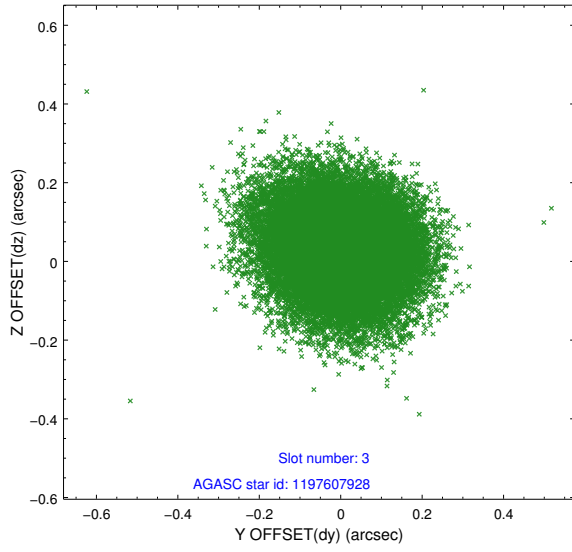


Slot Statistics

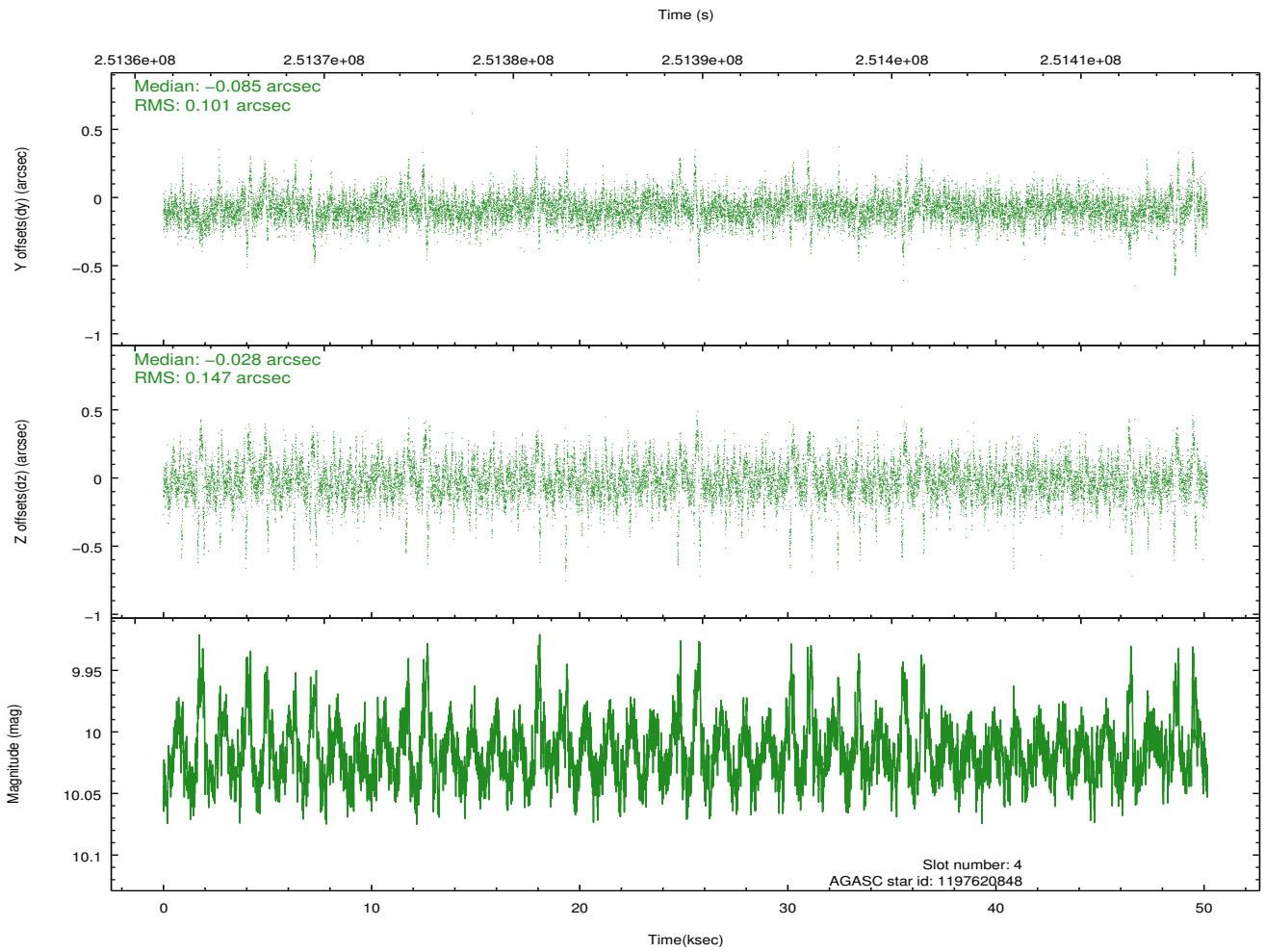
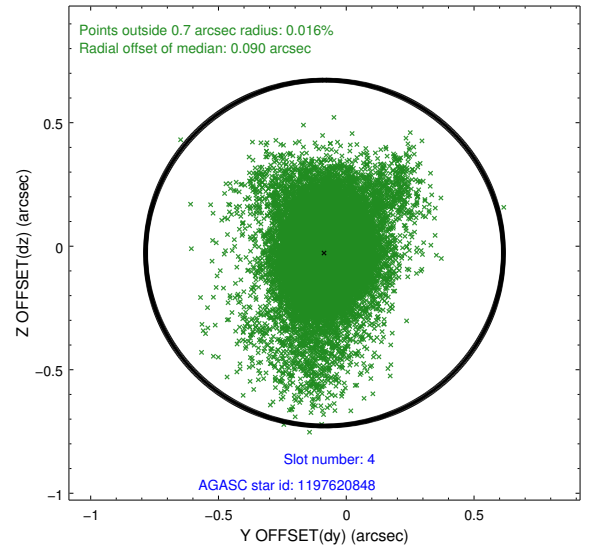
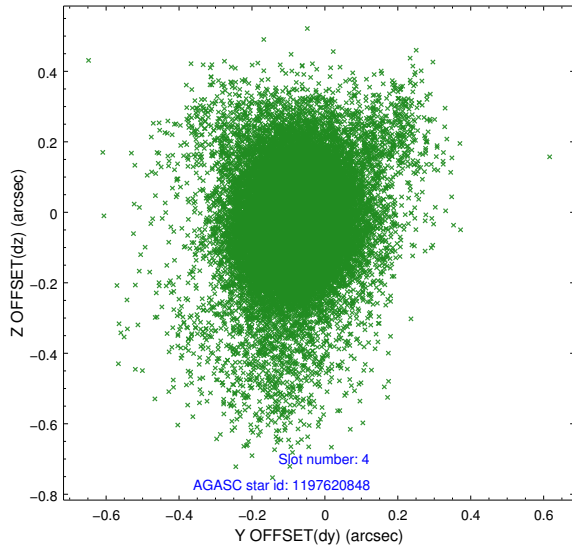
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	12235	0.153	-0.188	0.018	0.027	0.000000	0.000000	-1162.79	-459.24
1	FID	HRC-S-2	7.03	12234	0.139	-0.114	0.006	0.011	0.000000	0.000000	1236.76	-451.87
2	FID	HRC-S-3	7.04	12234	0.097	0.000	0.022	0.031	0.000000	0.000000	-1165.45	570.43
3	GUIDE	1197607928	9.62	24446	0.004	0.033	0.135	0.221	7.837743	-72.165759	939.60	1891.12
4	GUIDE	1197620848	10.02	24422	-0.085	-0.028	0.169	0.351	3.913465	-71.739620	-1718.85	-1908.34
5	BAD	1197635184	9.92	1	-21.872	-23.287	0.000	0.000	6.018453	-72.095535	-1616.30	-1882.85
6	GUIDE	1198000776	9.88	24443	0.177	0.002	0.176	0.293	4.972441	-72.805451	2286.31	-1731.67
7	GUIDE	1197621088	9.94	24364	-0.092	-0.006	0.160	0.258	3.823480	-72.180366	-201.01	-2382.07

2.4 Star Slots

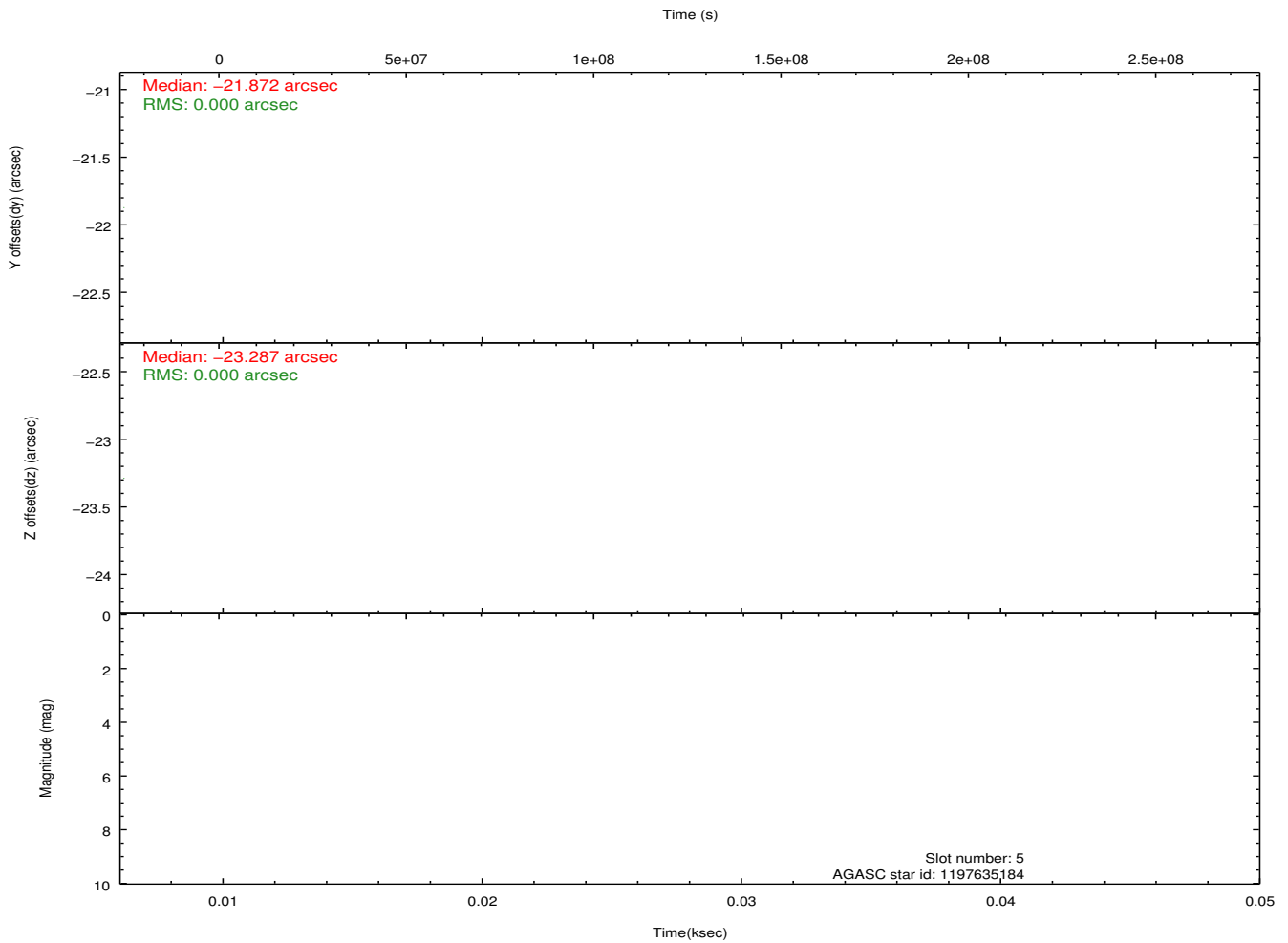
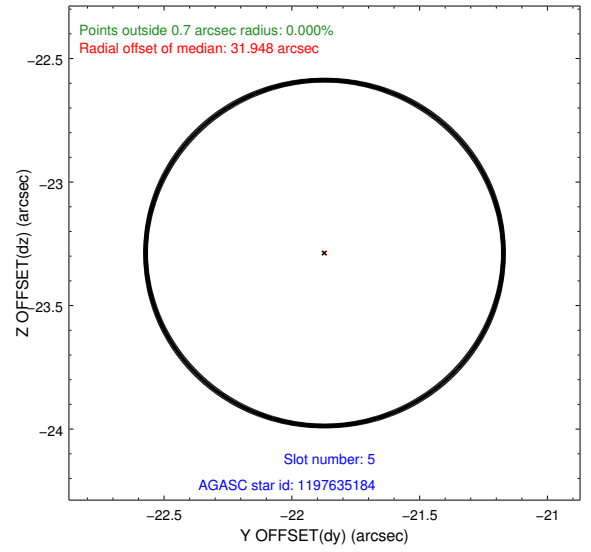
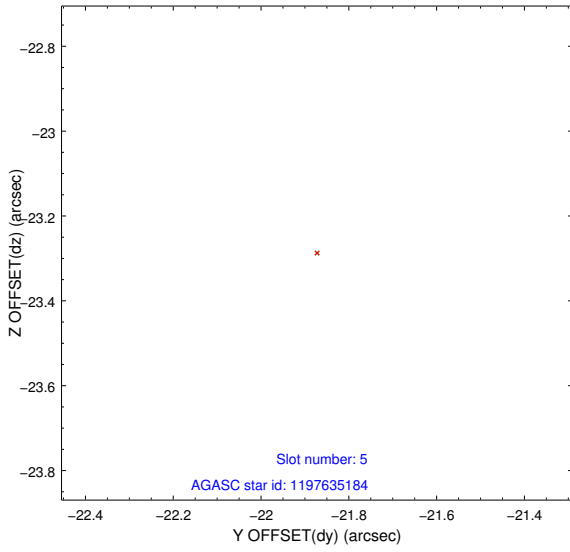
2.4.1 Slot 3



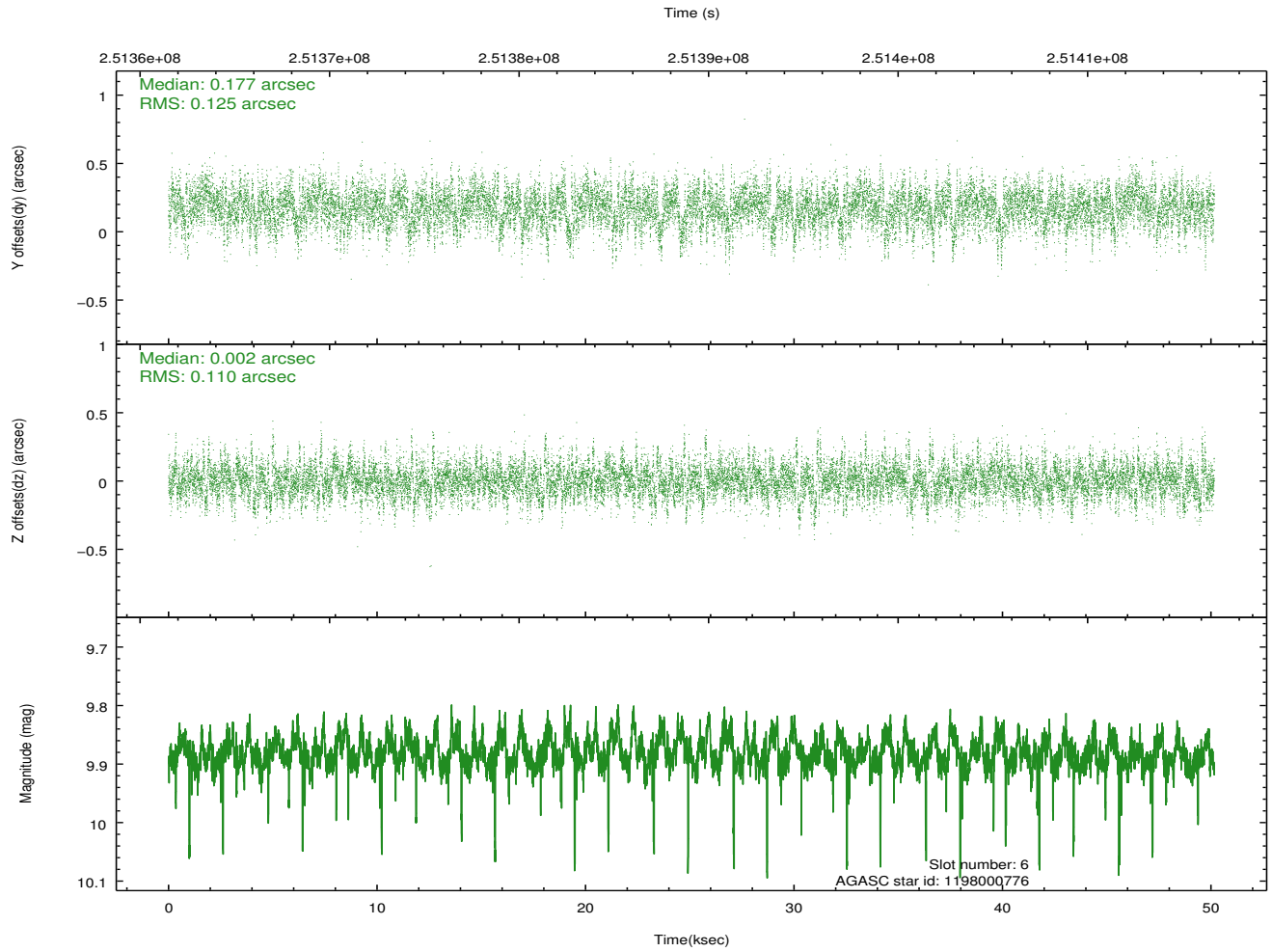
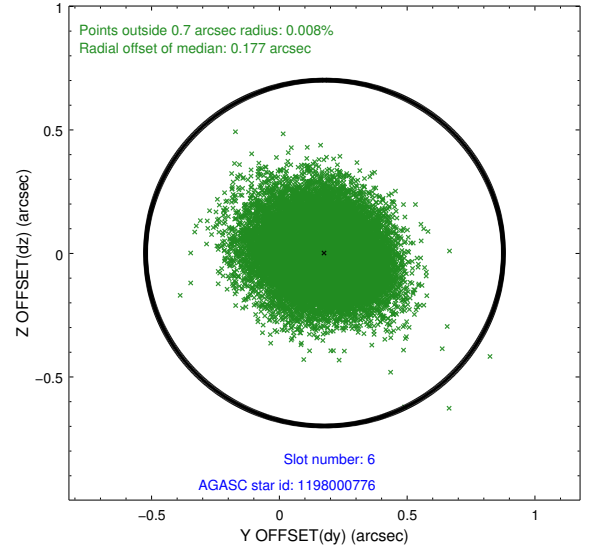
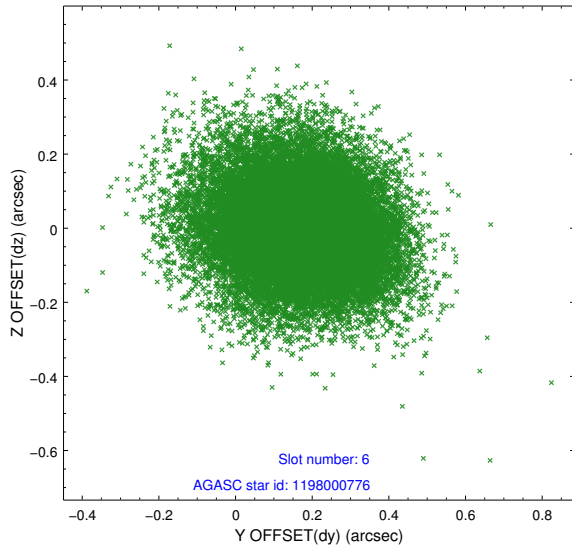
2.4.2 Slot 4



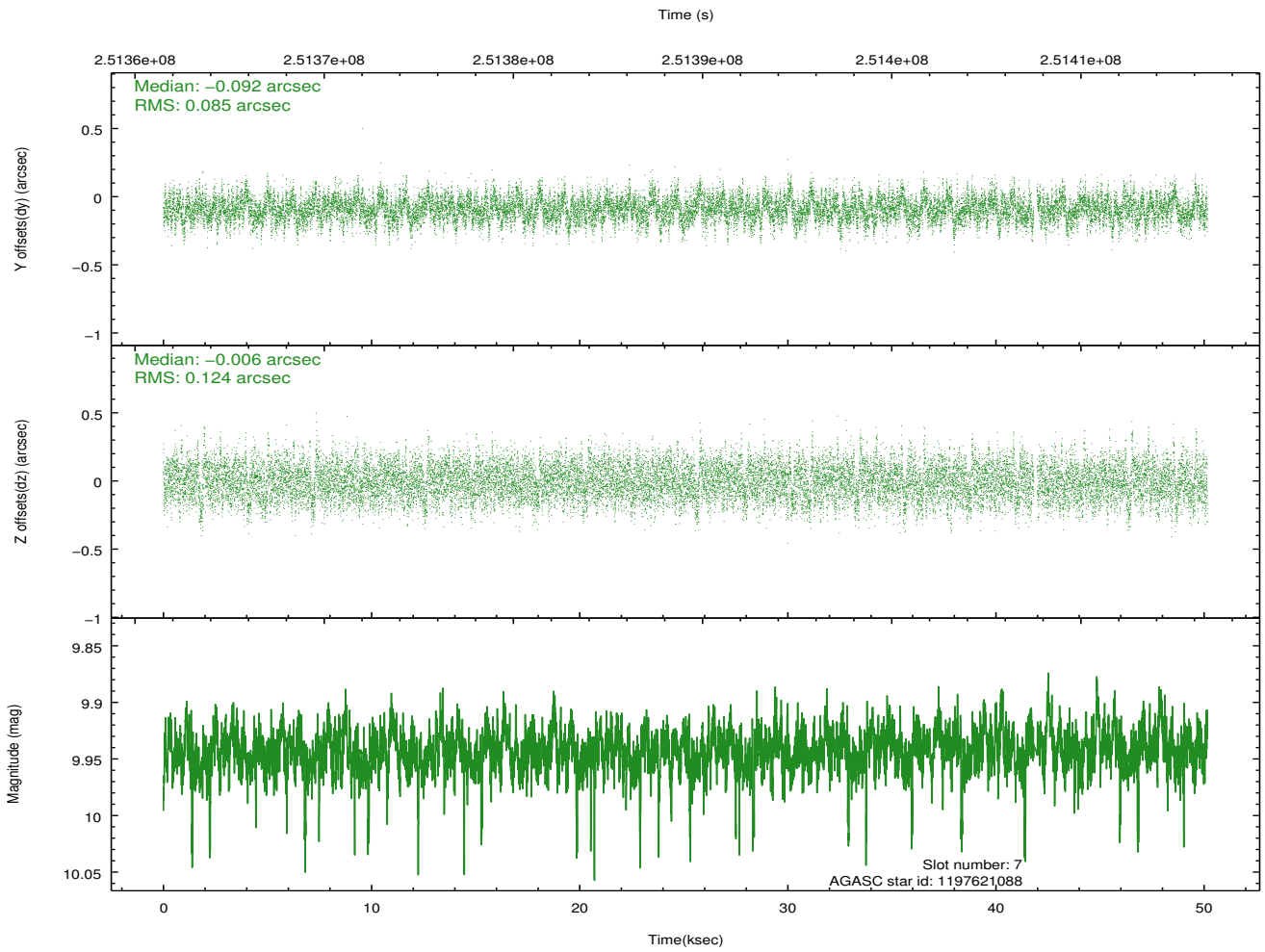
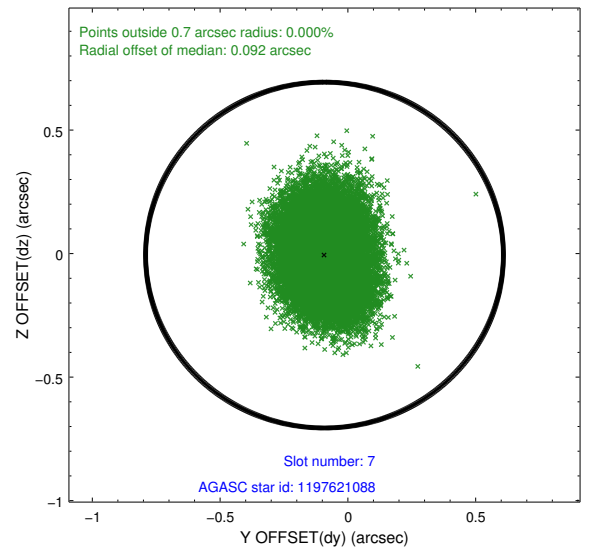
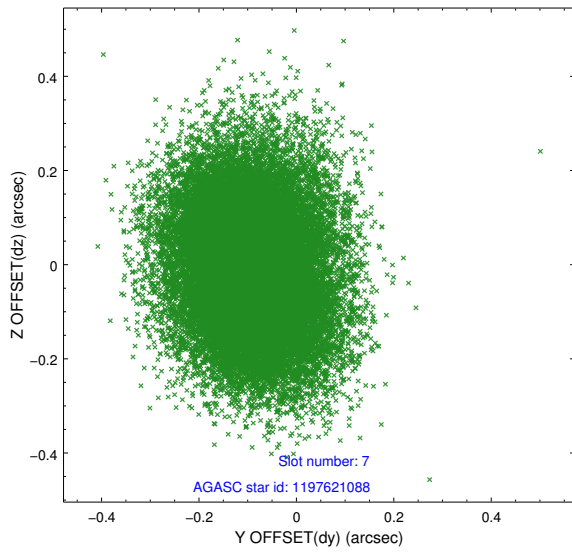
2.4.3 Slot 5



2.4.4 Slot 6

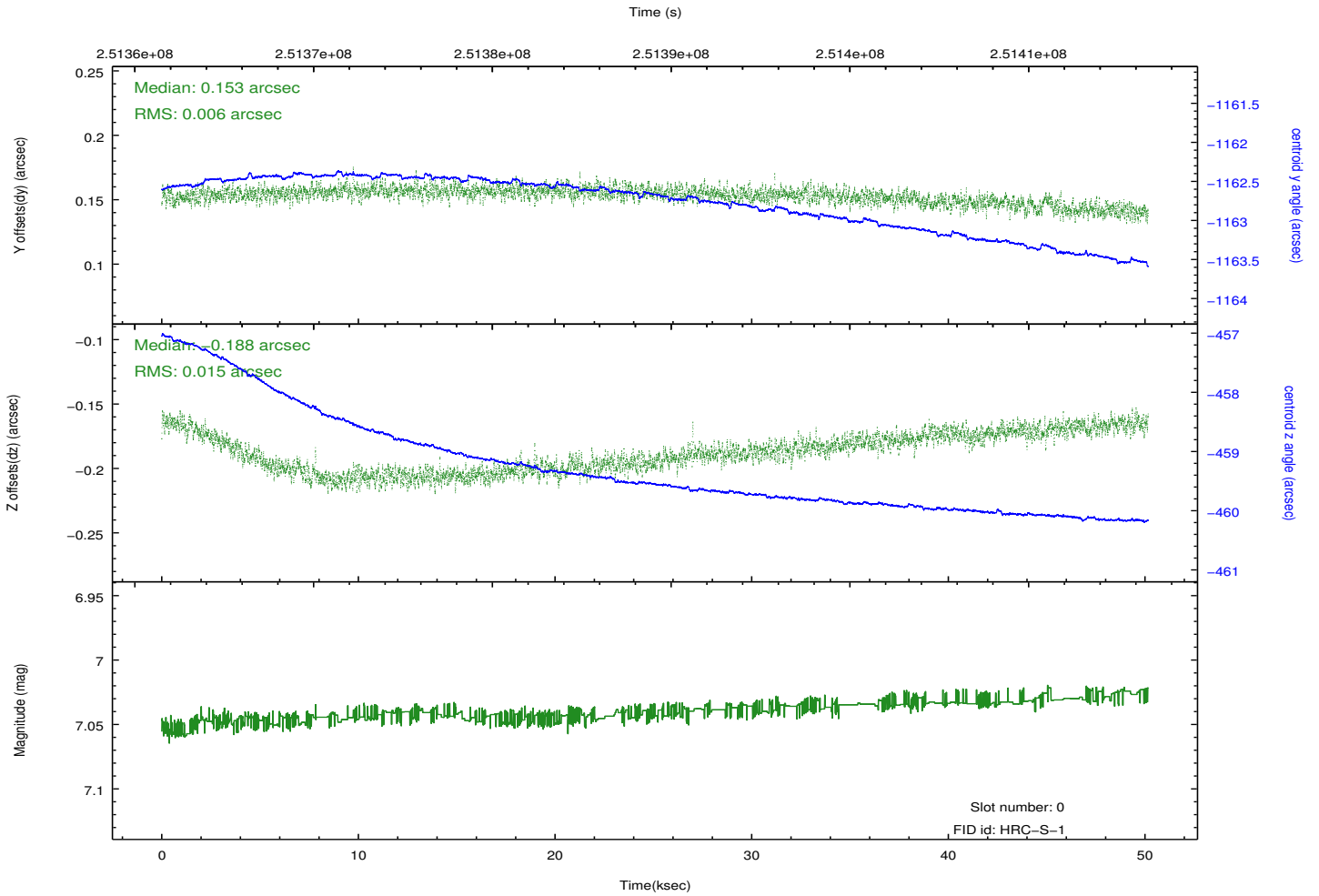
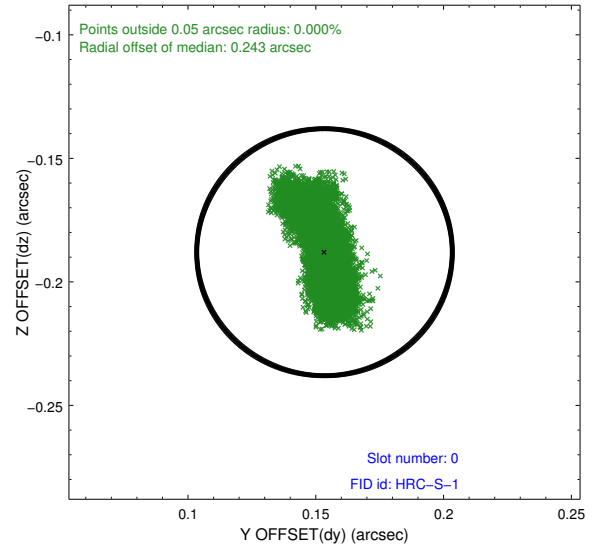
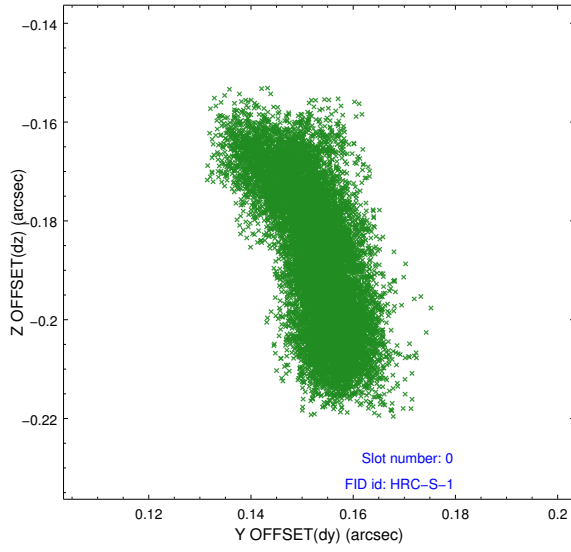


2.4.5 Slot 7

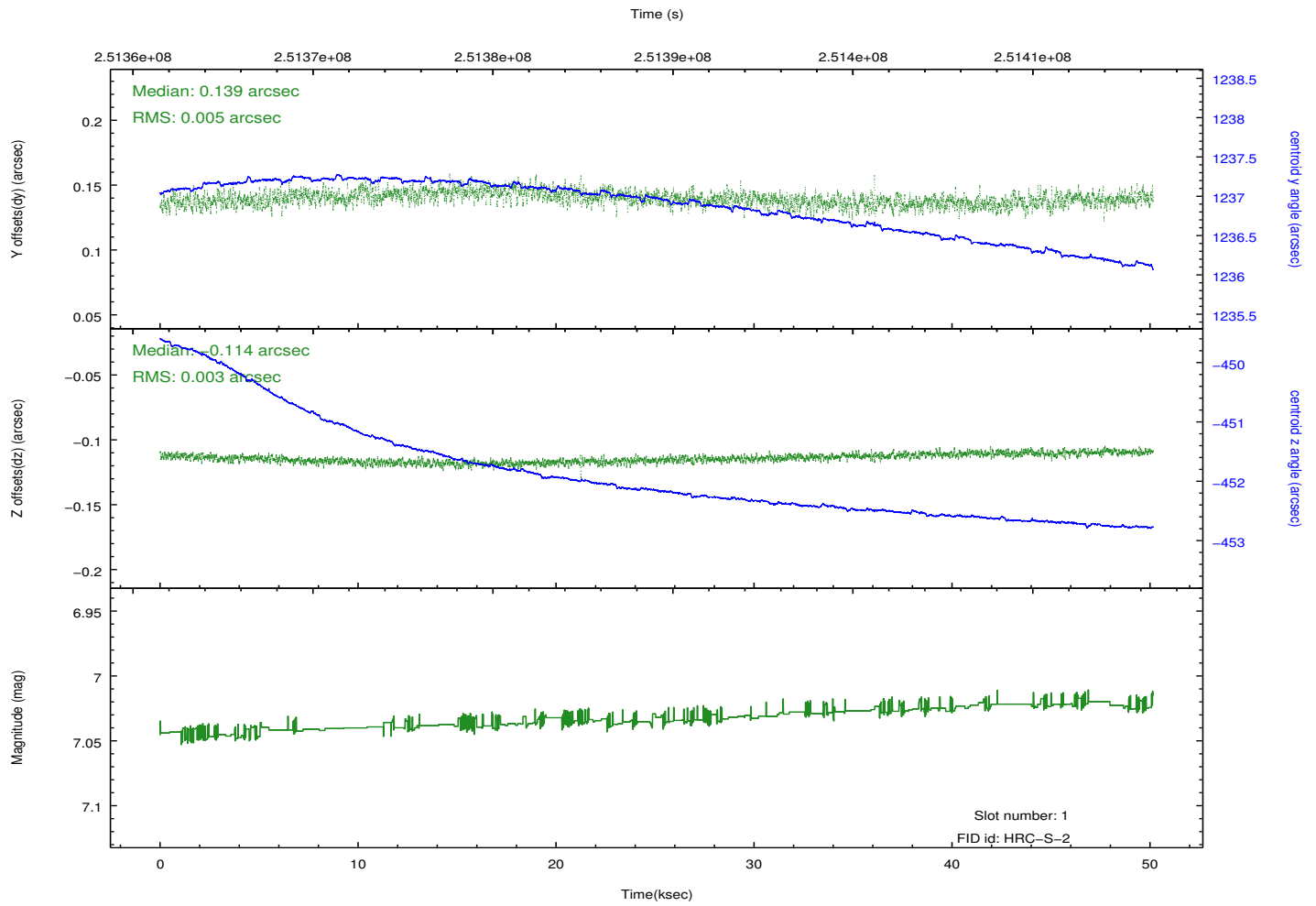
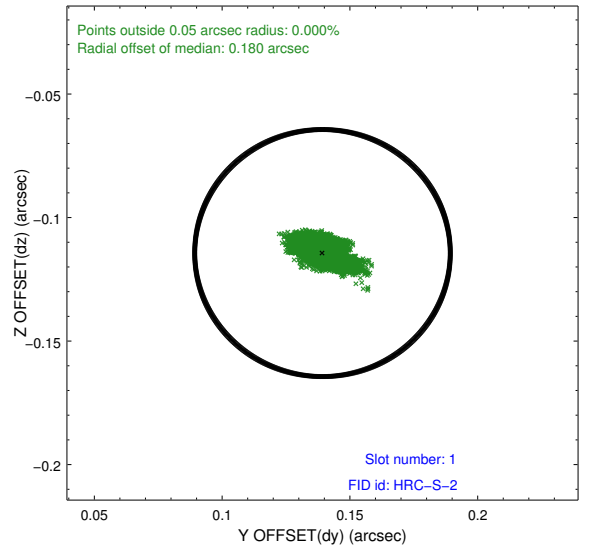
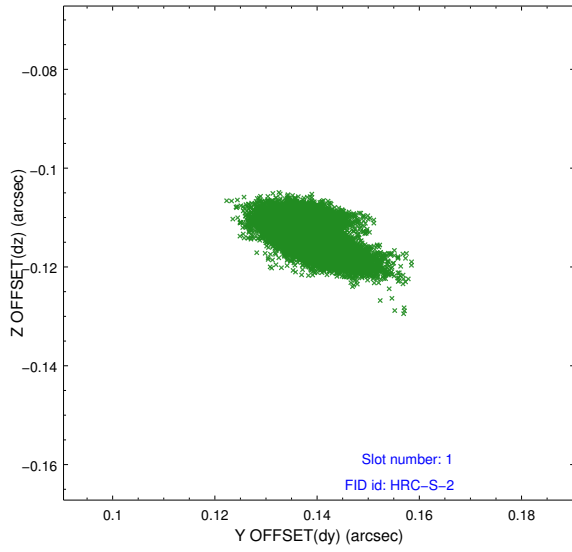


2.5 FID Slots

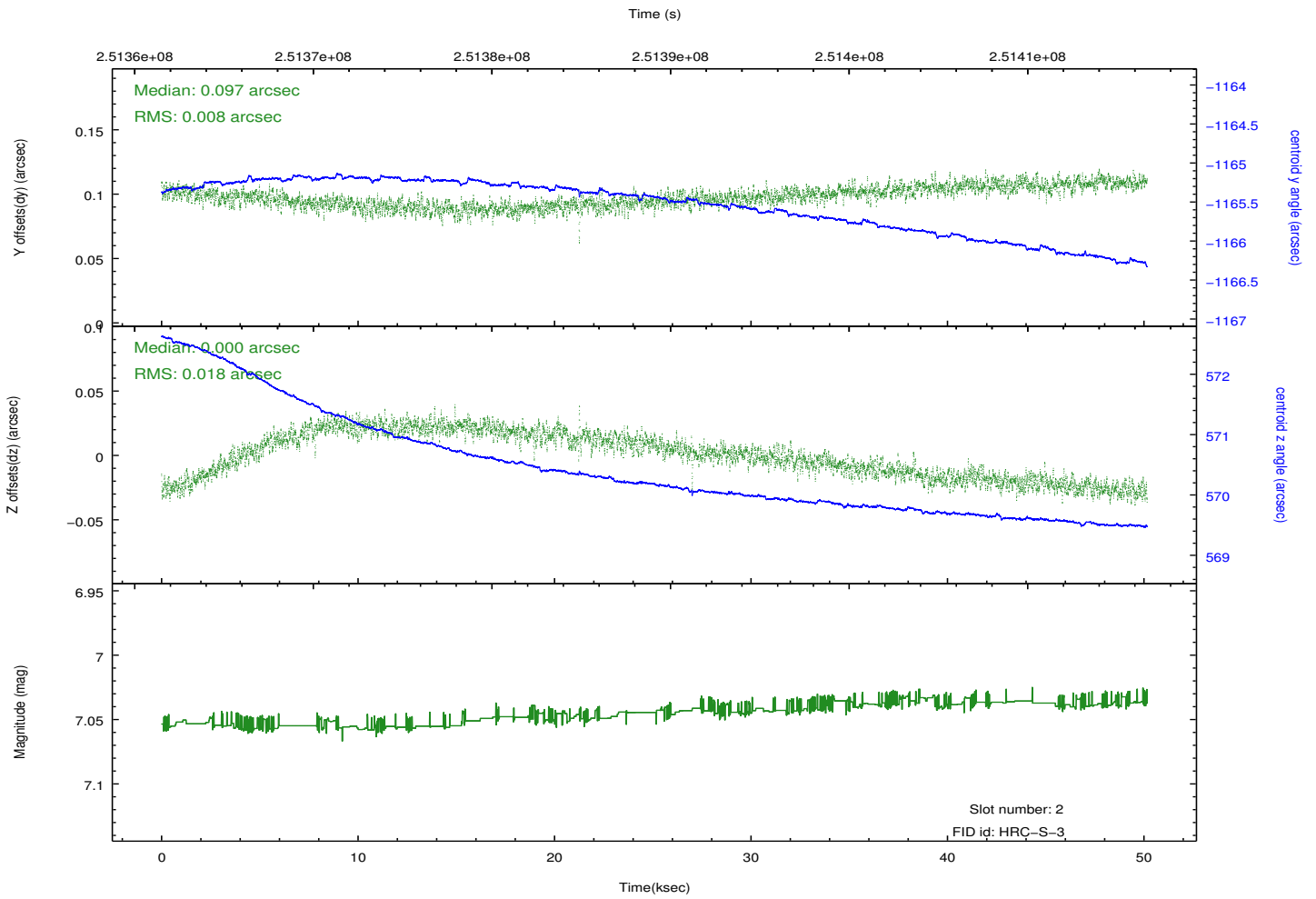
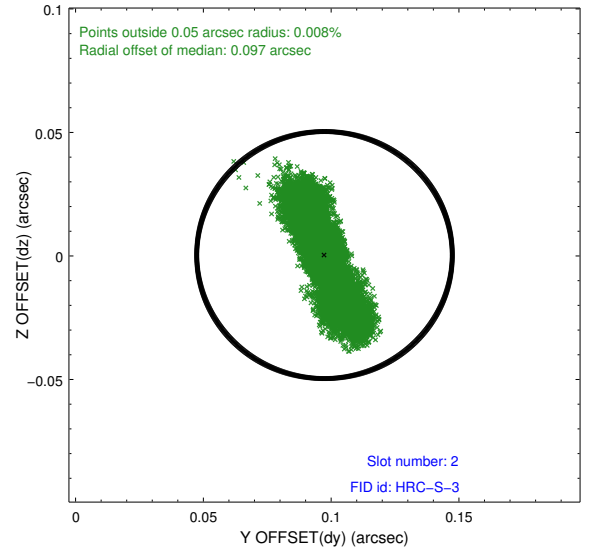
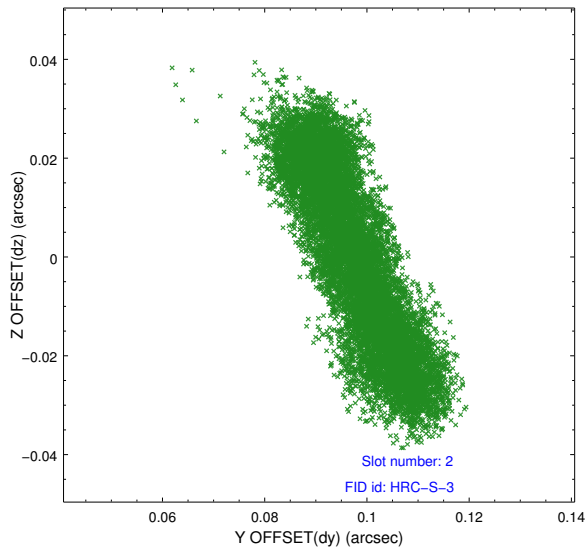
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.16247

A.2 Comments

Star in slot 5 radial offset > 1.500000 arcsec; this star was not used in the aspect solution. Data from 30 - 50 ksec into the observation is affected by high solar radiation. The count rate is higher and variable in this time interval. Level 2 PHA values are depressed and noisier in this time interval.