

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7568 - L2 Version 3  
Chandra X-Ray Center

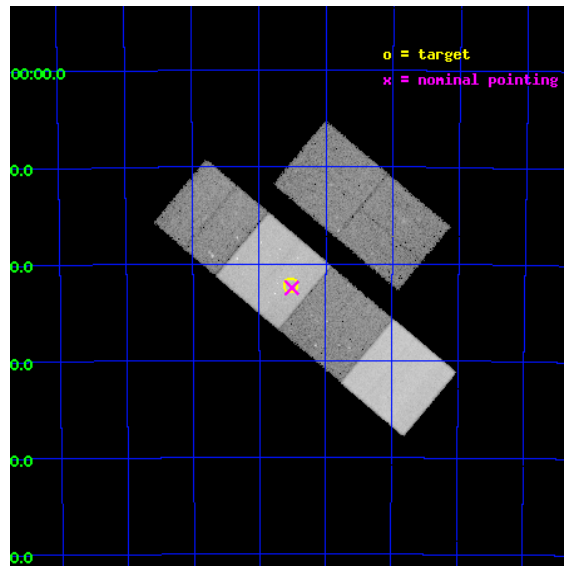
L2 Processing Date : Apr 24 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	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
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

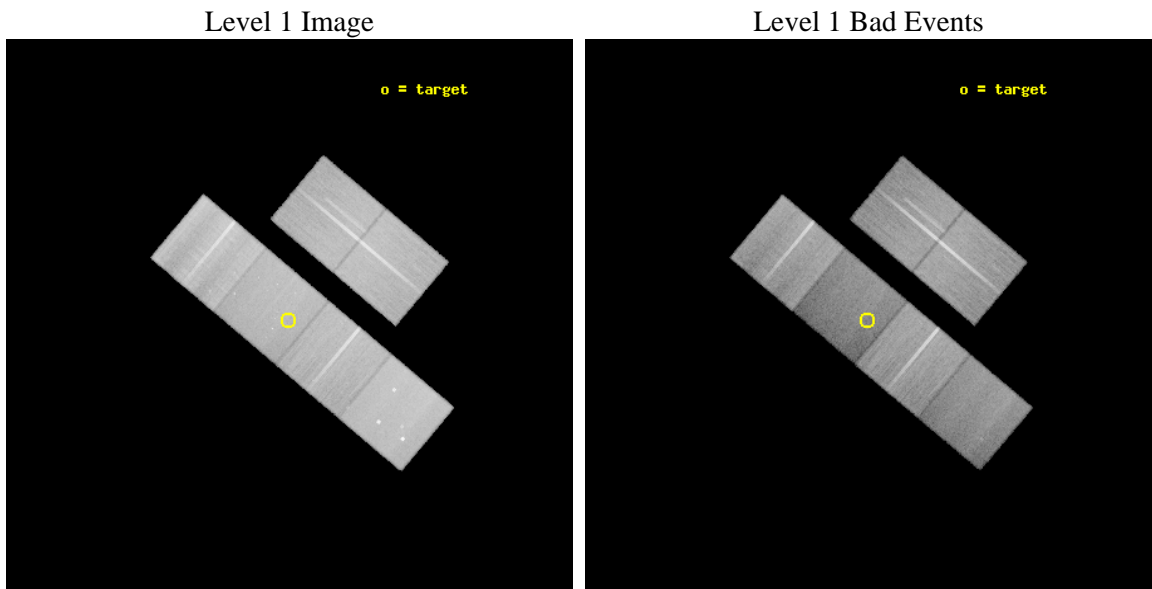
seq_num	500700	Sequence number
obs_id	7568	Observation id
title	A Search for Jet Breaks in Long GRB afterglows	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	GRB 060729	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	95.380417	Observer's specified target RA [deg]
dec_targ	-62.370389	Observer's specified target Dec [deg]
ra_nom	95.377147497539	Nominal RA [deg]
dec_nom	-62.374991139528	Nominal Dec [deg]
roll_nom	220.08029785335	Nominal Roll [deg]
revision	3	Processing version of data
ontime	40783.394695759	Sum of GTIs [s]
livetime	40266.970795309	Livetime [s]
ontime2	40773.712774992	Sum of GTIs [s]
ontime3	40776.789585352	Sum of GTIs [s]
ontime5	40783.353655756	Sum of GTIs [s]
ontime6	40783.312615752	Sum of GTIs [s]
ontime7	40783.394695759	Sum of GTIs [s]
ontime8	40783.230535746	Sum of GTIs [s]
l2events	436180	Number of level 2 events



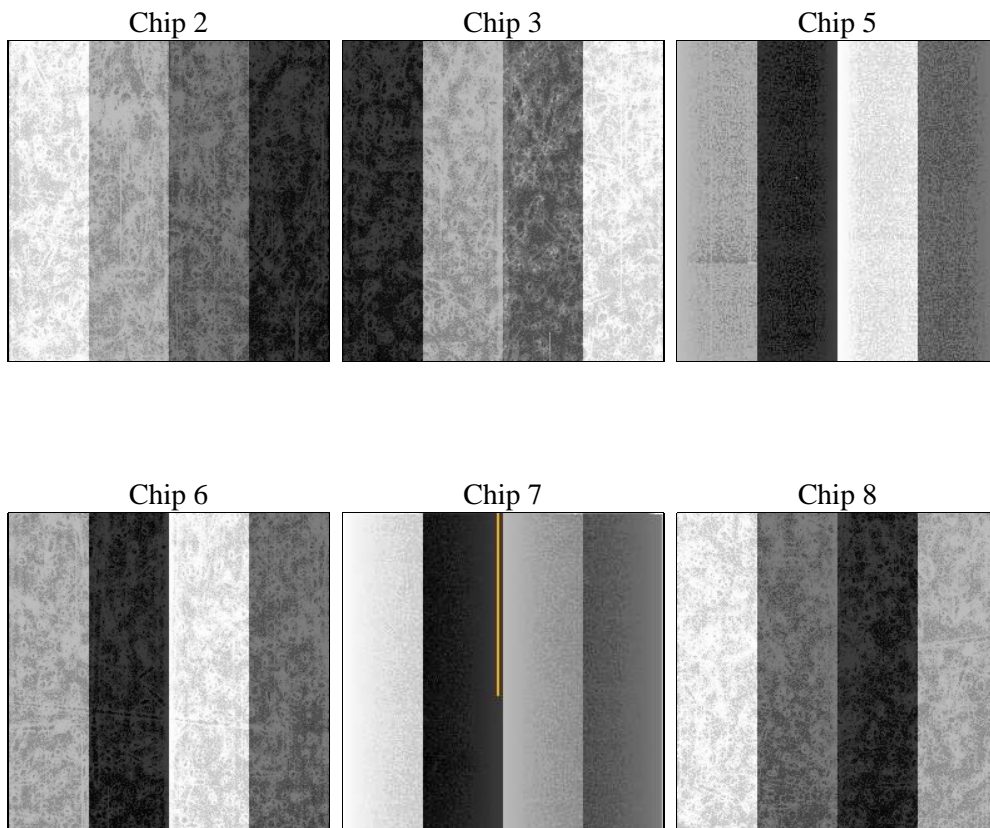
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40740.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	40783.394695759	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	40773.712774992	Sum of GTIs [s]
date	2012-04-24T22:40:44	Date and time of file creation	ontime3	40776.789585352	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	40783.353655756	Sum of GTIs [s]
			ontime6	40783.312615752	Sum of GTIs [s]
			ontime7	40783.394695759	Sum of GTIs [s]
			ontime8	40783.230535746	Sum of GTIs [s]
			l1events	2020823	Number of level 1 events

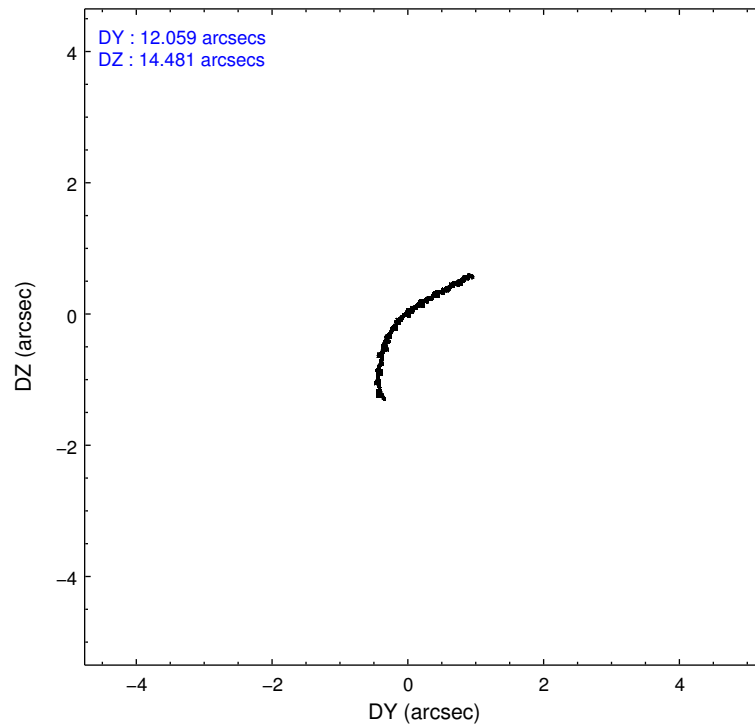
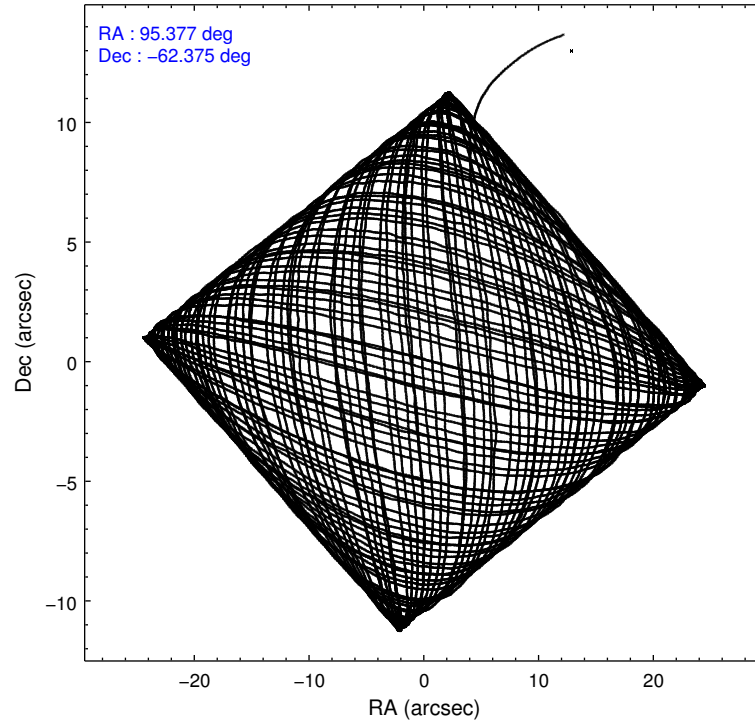
### 2.1.4 Events

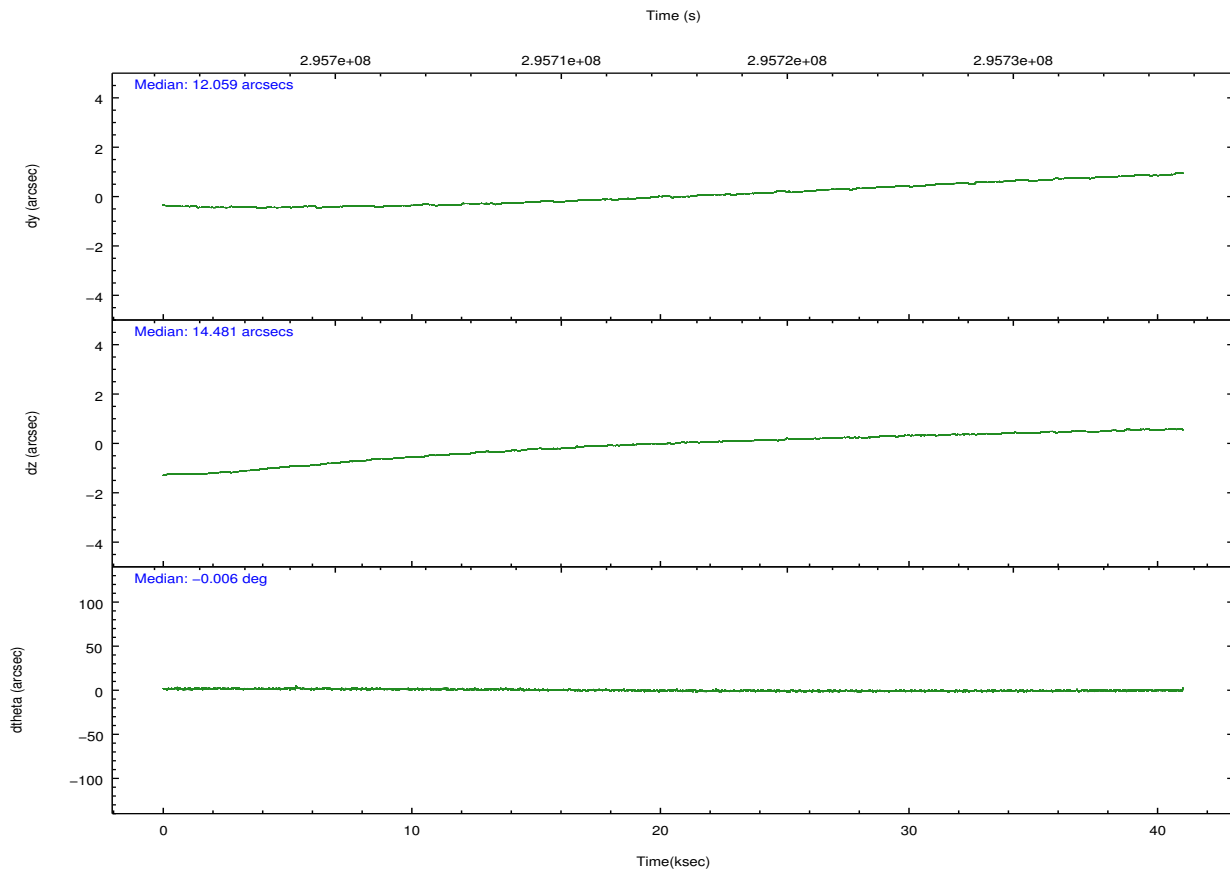
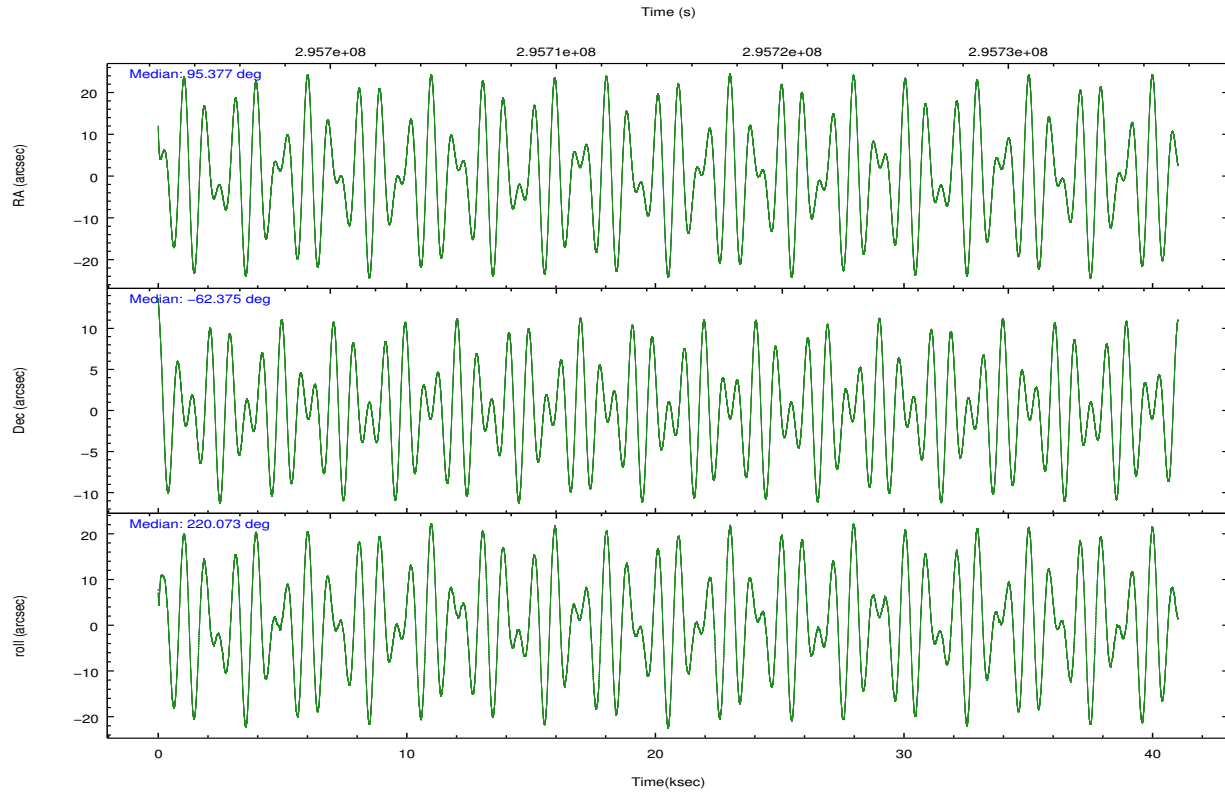
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	332296	306088	385459	315800	294920	386260	grade 0 events	11069	10211	23771	11300	15204	26410
rejected events	302593	278107	179593	284453	148919	290964		3%	3%	6%	3%	5%	6%
rejected %	91%	90%	46%	90%	50%	75%	grade 1 events	154	191	938	147	465	294
								0%	0%	0%	0%	0%	0%
							grade 2 events	7034	6154	61580	7033	30863	22029
								2%	2%	15%	2%	10%	5%
							grade 3 events	3067	3168	9270	3458	13983	10808
								0%	1%	2%	1%	4%	2%
							grade 4 events	3369	3191	9150	3408	13826	9960
								1%	1%	2%	1%	4%	2%
							grade 5 events	8757	10237	31528	10528	31698	15908
								2%	3%	8%	3%	10%	4%
							grade 6 events	5166	5260	102118	6151	72135	26091
								1%	1%	26%	1%	24%	6%
							grade 7 events	293680	267676	147104	273775	116746	274760
								88%	87%	38%	86%	39%	71%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	95.396462	95.377147497539	CCD I2 on	Y	Y
[deg] Pointing Dec	-62.349158	-62.37499113952838	CCD I3 on	Y	Y
[deg] Pointing Roll	219.940779	220.0802978533534	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	295694713.184000	295693655.09886	CCD S5 on	N	N
Observation start date	2007-05-16T09:24:08	2007-05-16T09:07:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	295735453.184000	295736169.53839	On-chip summing requested	N	N
Observation end date	2007-05-16T20:43:08	2007-05-16T20:56:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



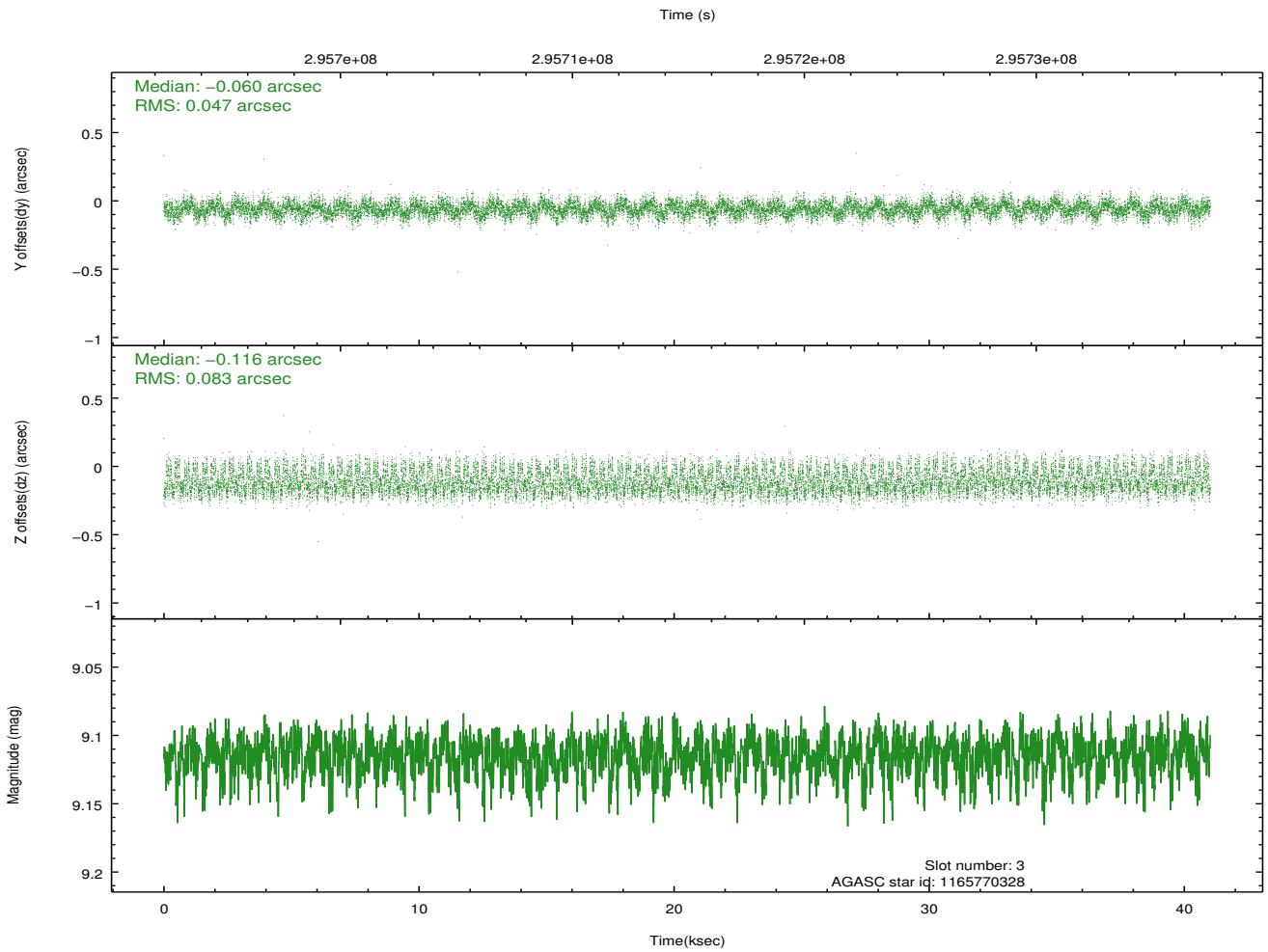
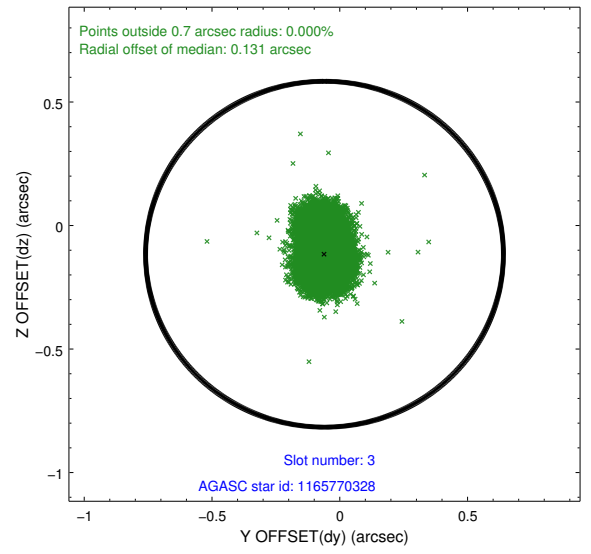
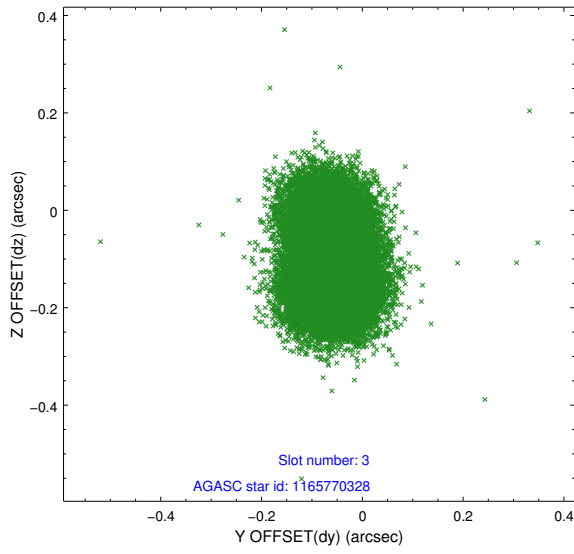


### Slot Statistics

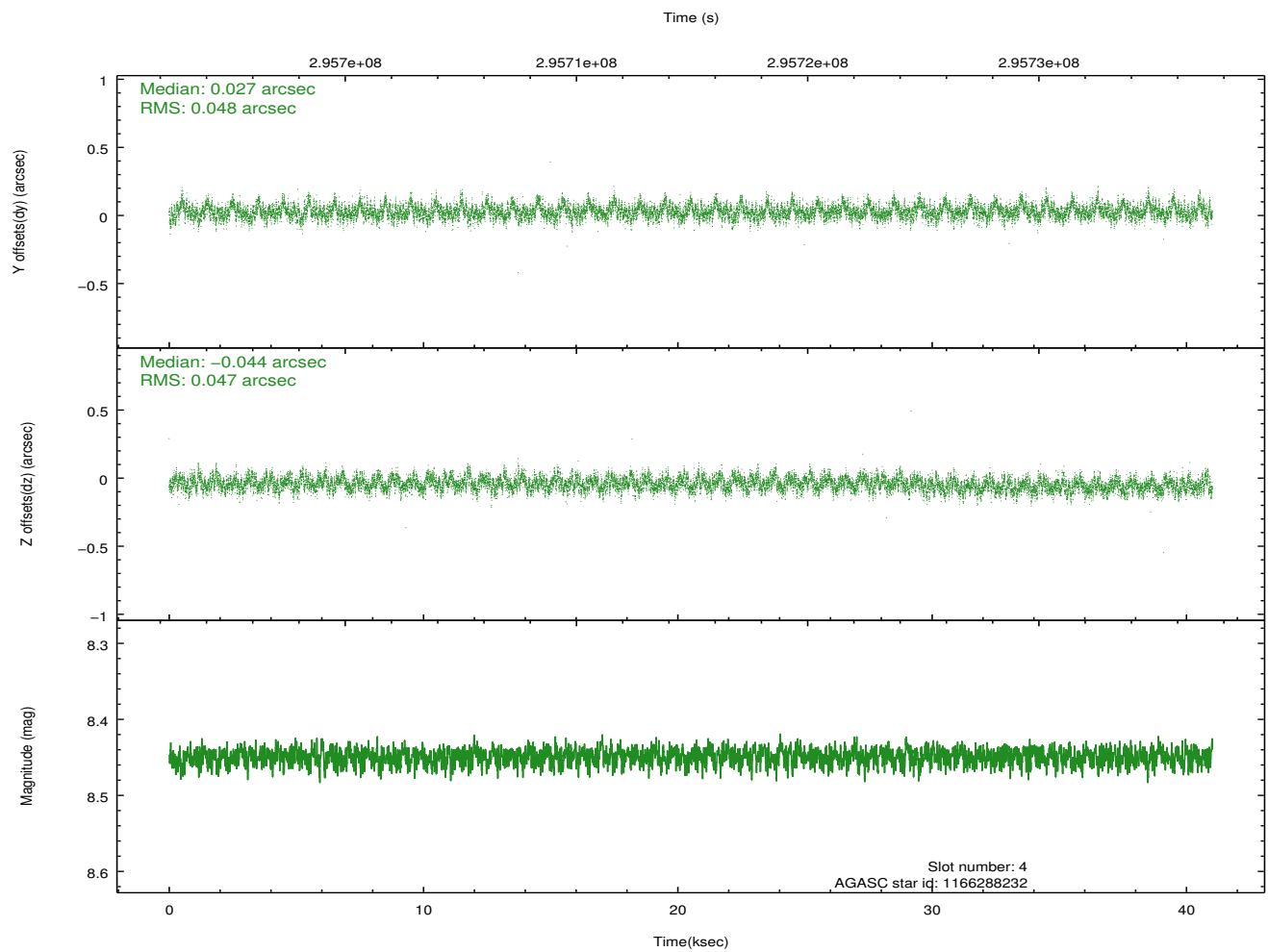
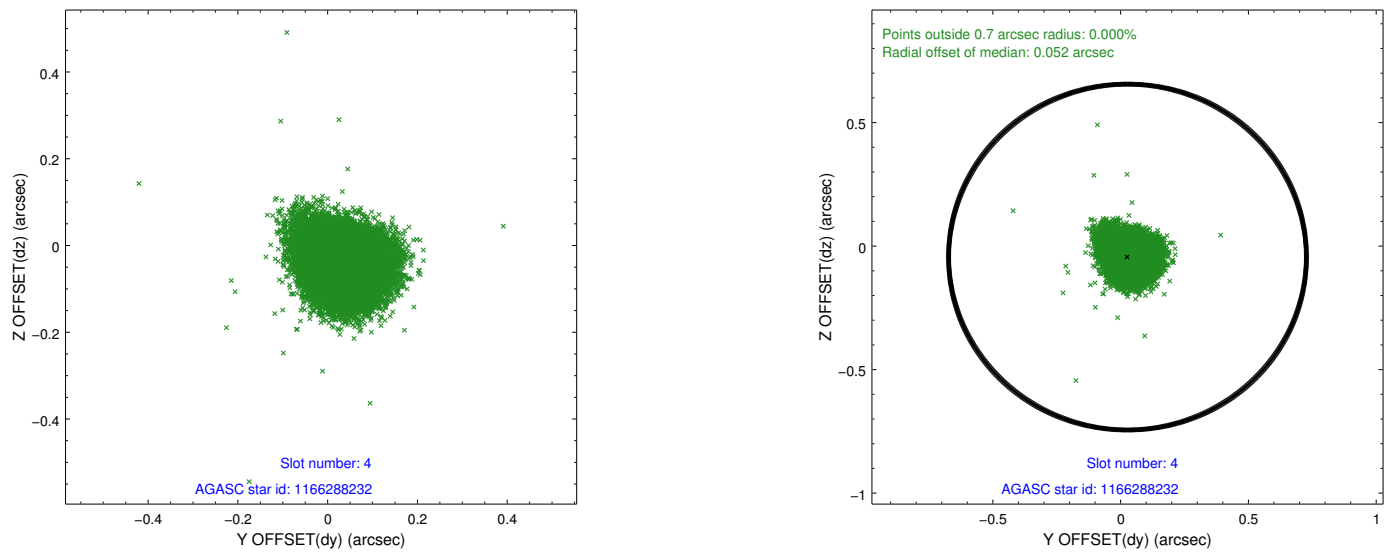
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	10006	-0.017	-0.026	0.018	0.027	0.000000	0.000000	931.00	-1731.36
1	FID	ACIS-S-4	7.19	10004	0.069	0.002	0.009	0.014	0.000000	0.000000	2148.48	172.83
2	FID	ACIS-S-6	7.33	10005	-0.075	0.035	0.015	0.023	0.000000	0.000000	396.87	810.22
3	GUIDE	1165770328	9.11	19987	-0.060	-0.116	0.102	0.164	94.916512	-61.741093	-775.69	-2201.16
4	GUIDE	1166288232	8.45	20008	0.027	-0.044	0.072	0.116	96.353495	-62.422658	-1045.52	1235.45
5	GUIDE	1166289624	7.98	20008	0.068	0.133	0.074	0.122	95.229966	-62.354097	225.24	-164.16
6	GUIDE	1166290504	9.16	20000	0.011	0.041	0.078	0.129	94.421217	-62.304320	1155.72	-1161.65
7	GUIDE	1165768312	8.57	20001	-0.050	-0.015	0.075	0.122	95.468462	-61.602862	-1818.78	-1980.79

## 2.4 Star Slots

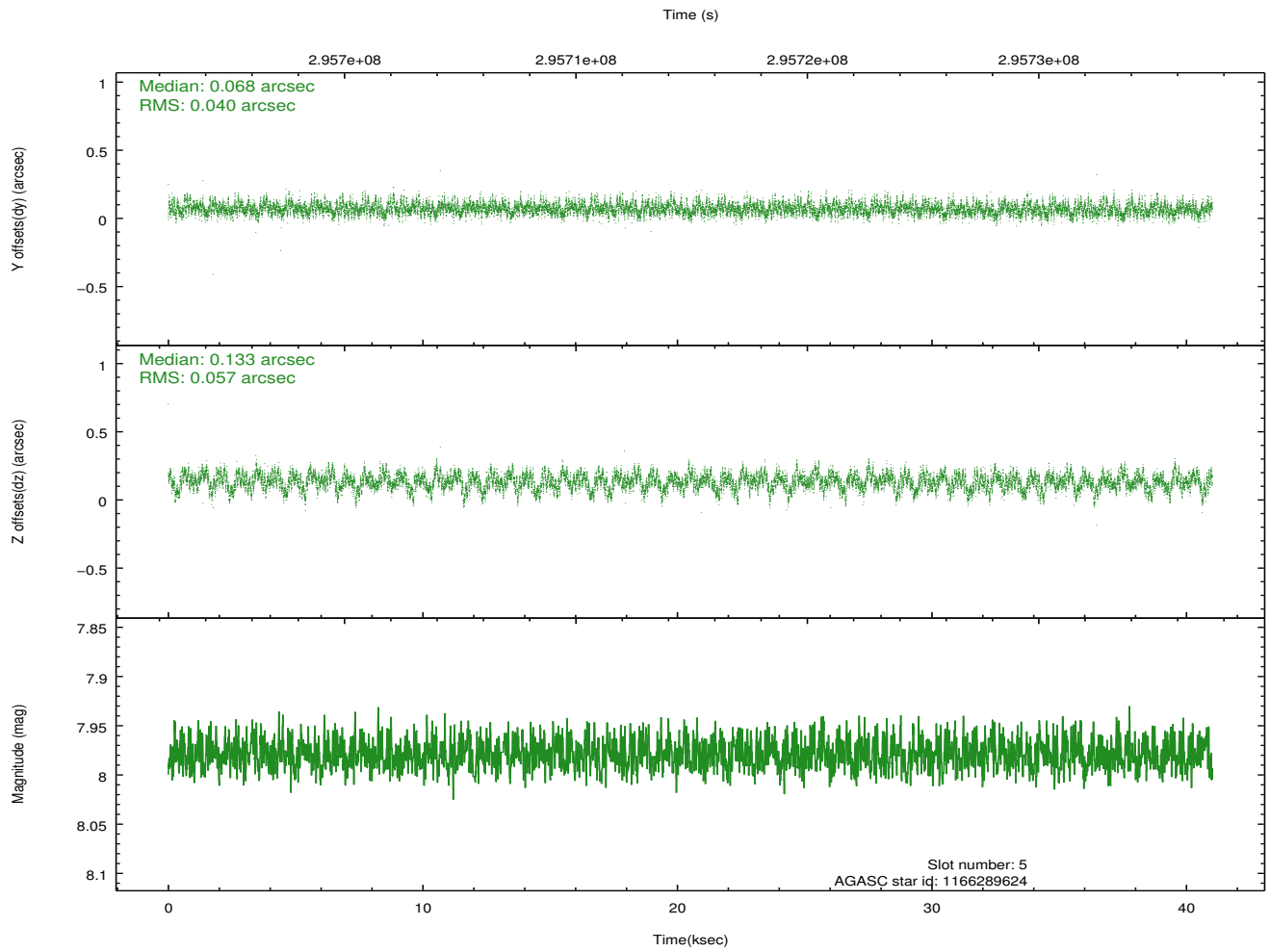
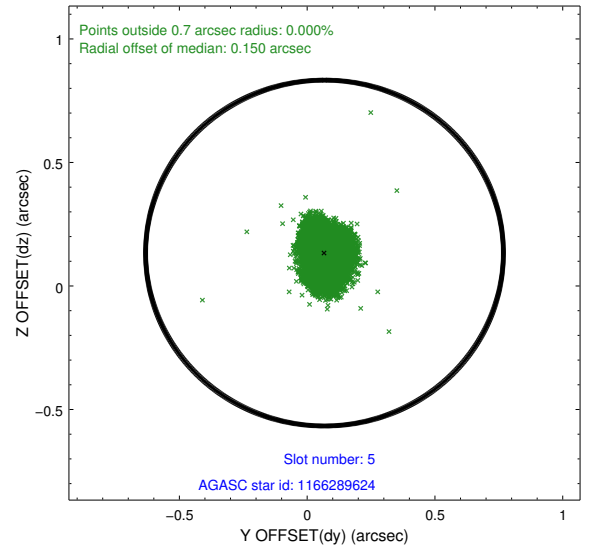
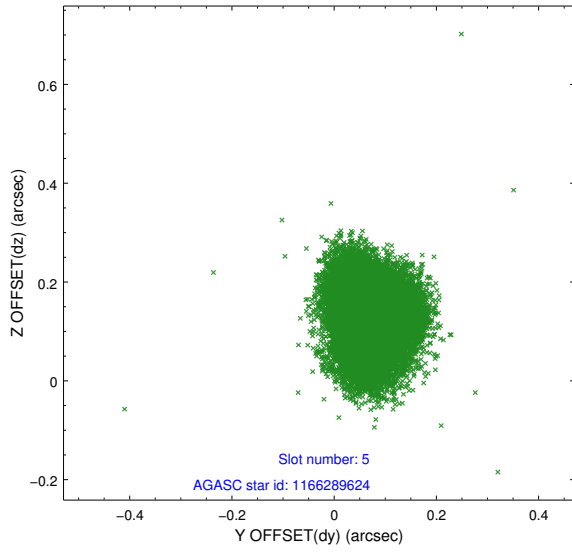
### 2.4.1 Slot 3



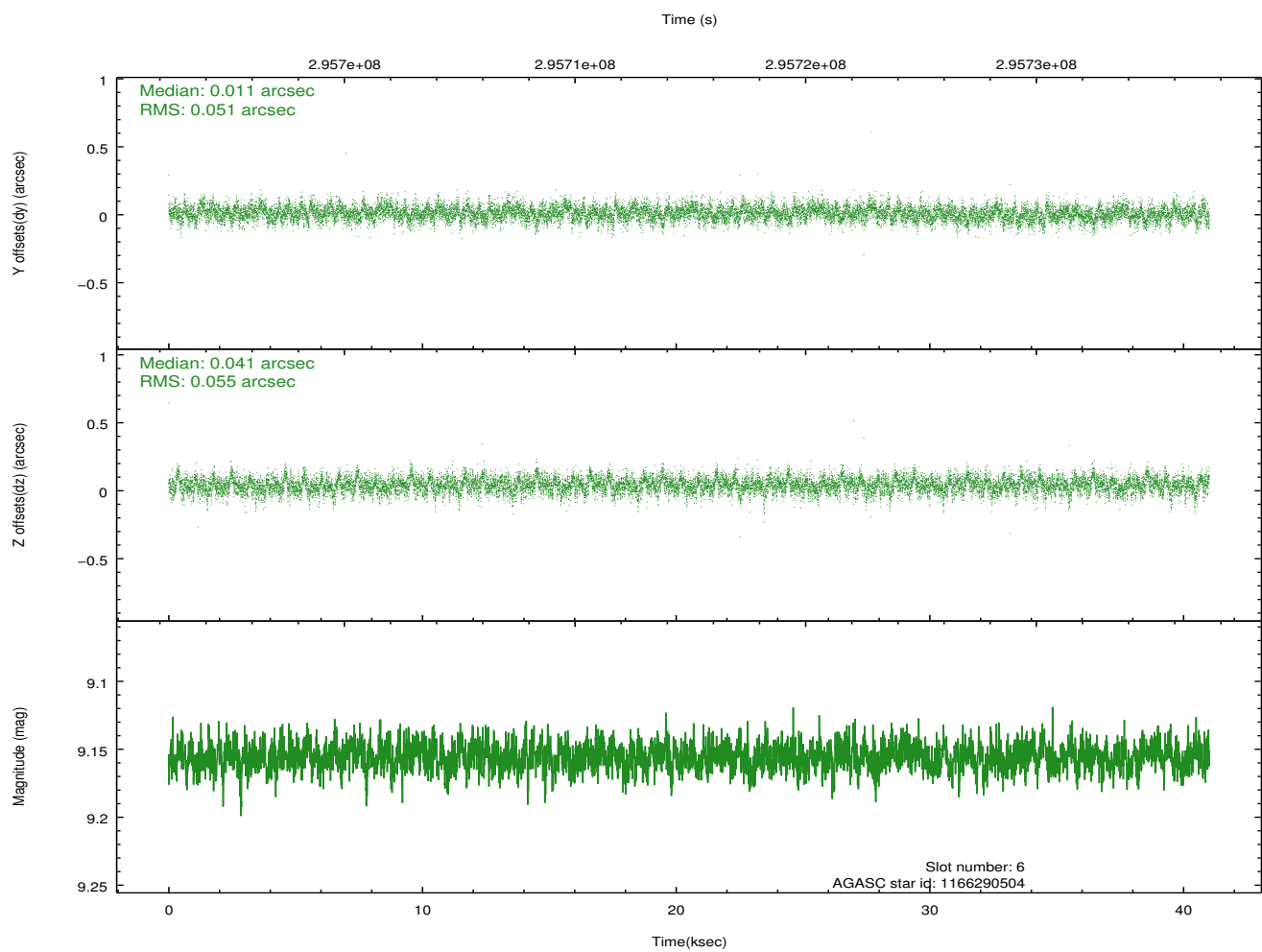
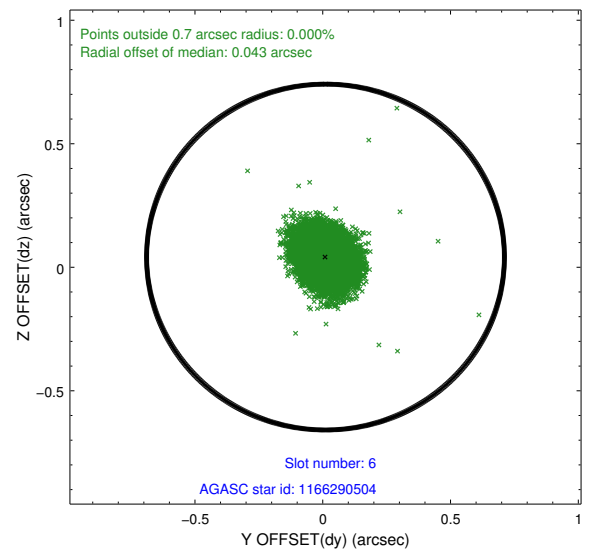
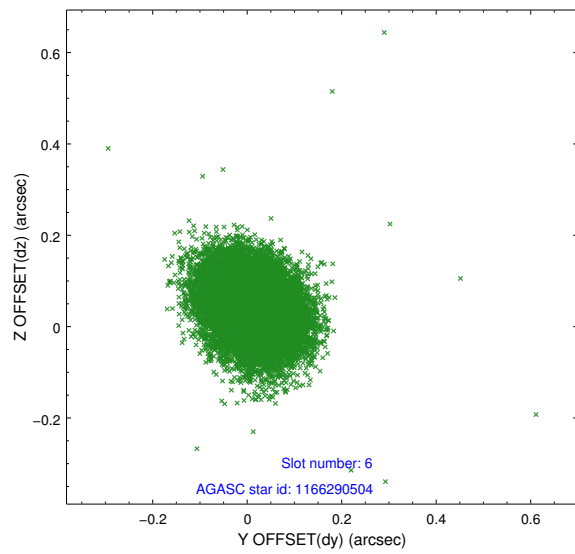
## 2.4.2 Slot 4



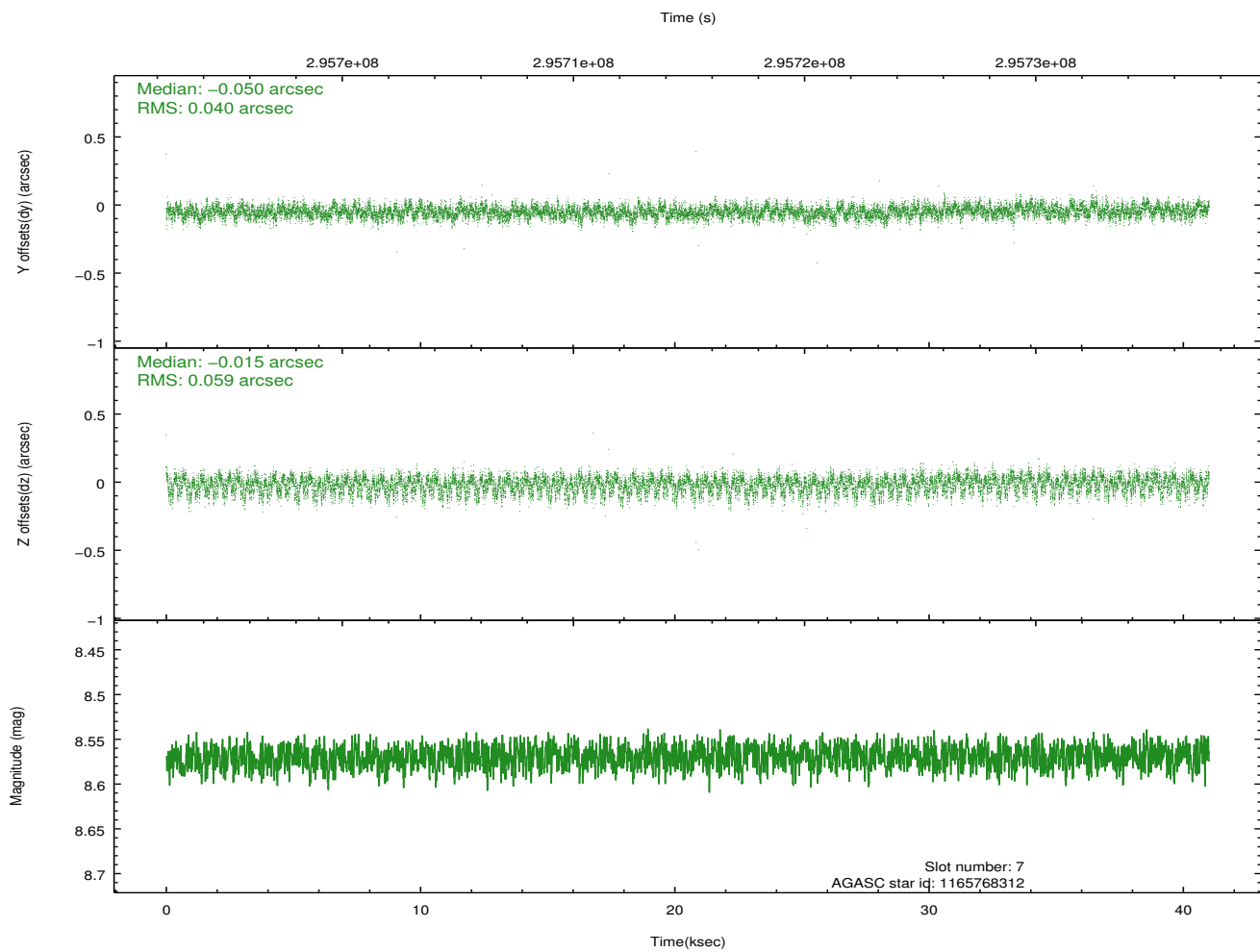
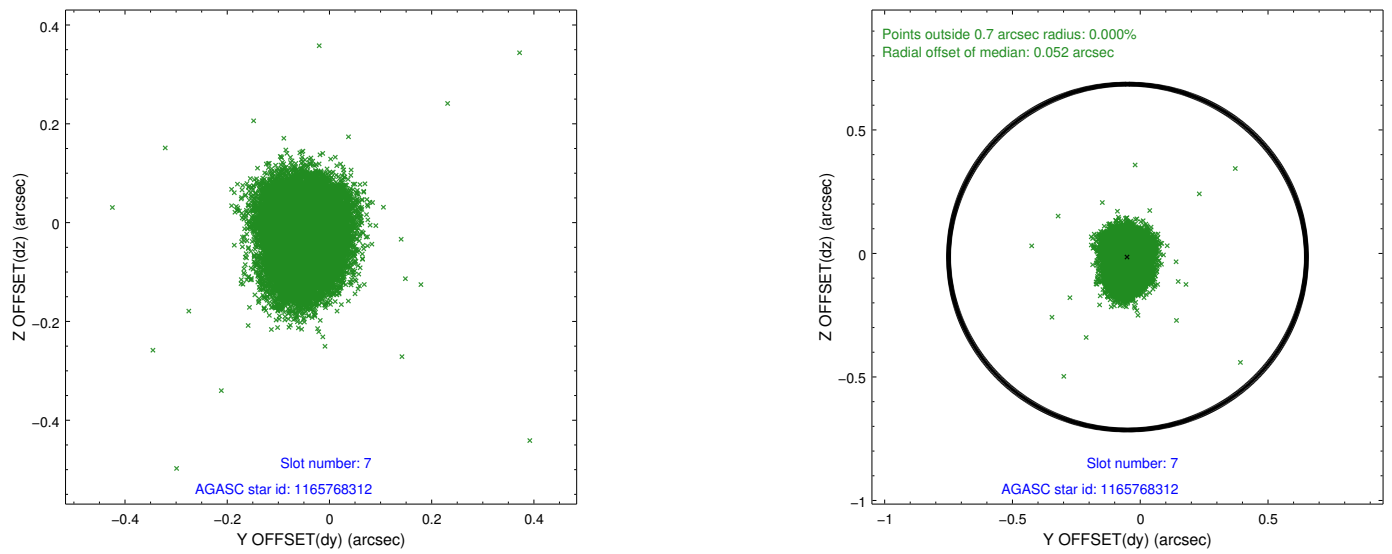
### 2.4.3 Slot 5



## 2.4.4 Slot 6

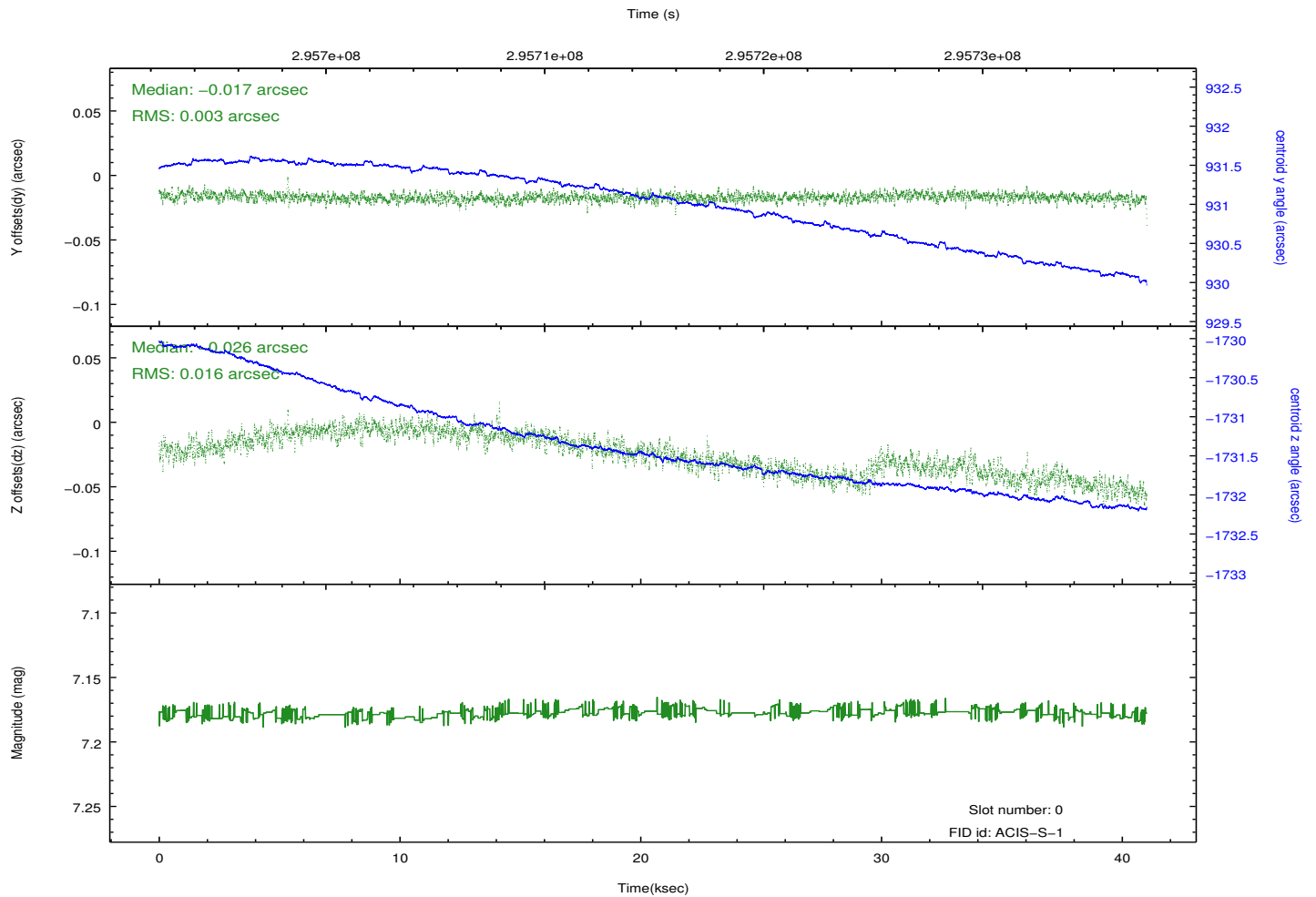
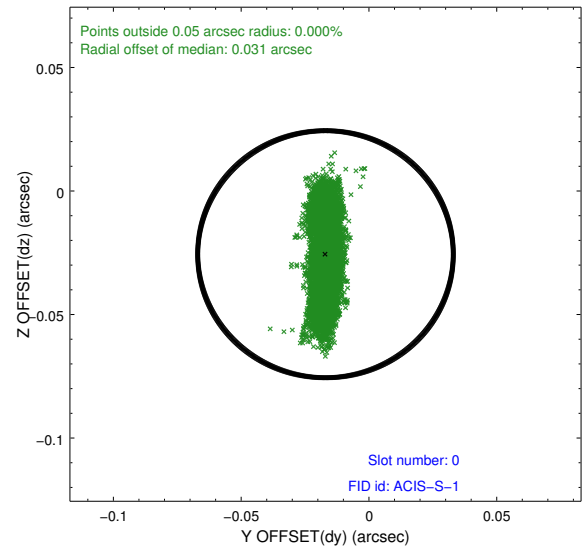
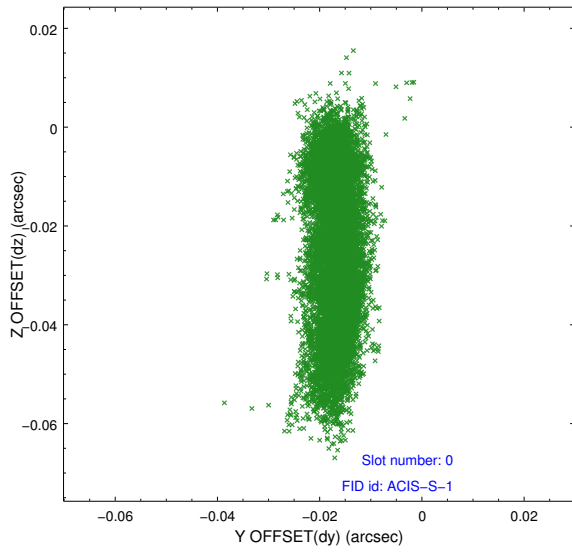


## 2.4.5 Slot 7

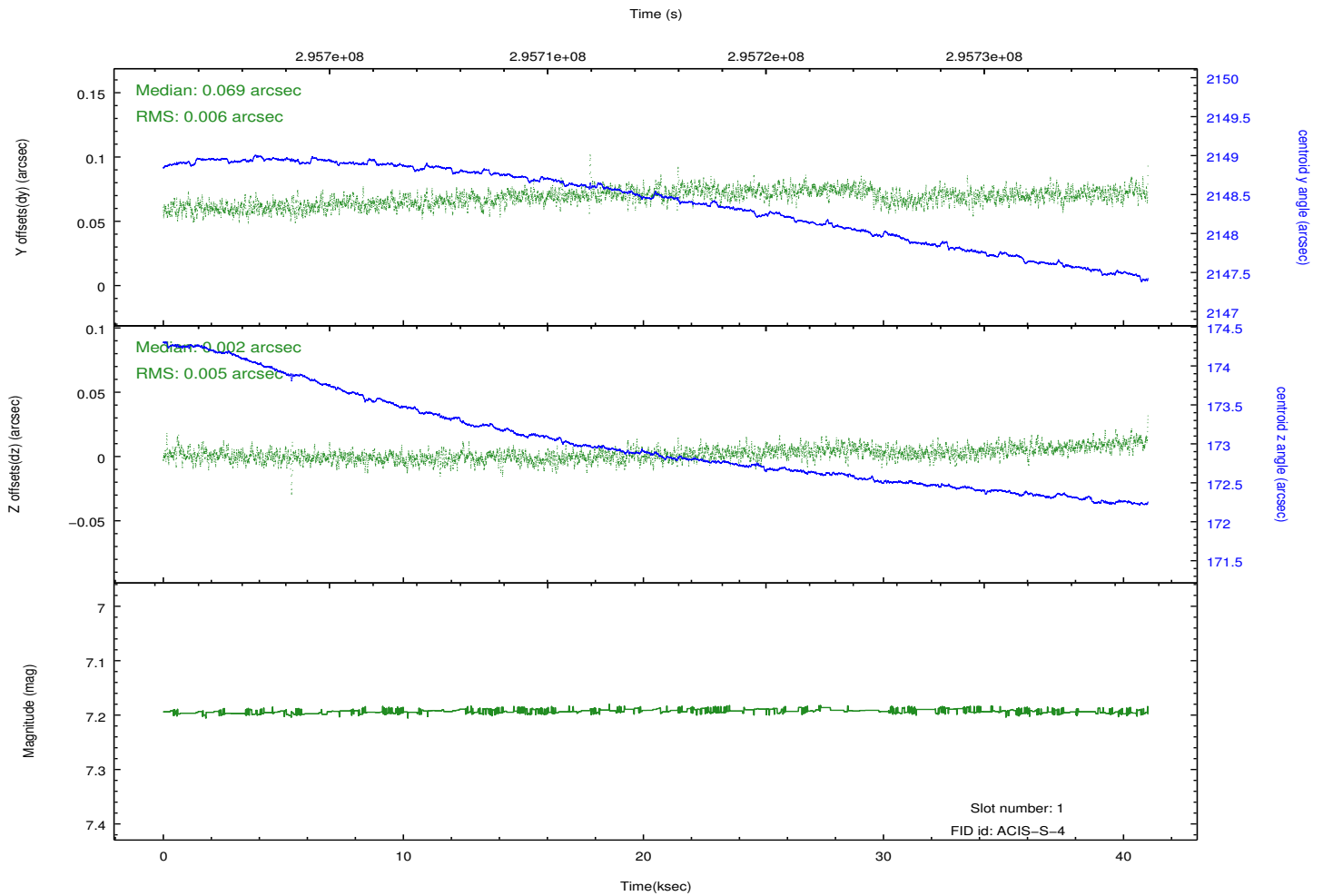
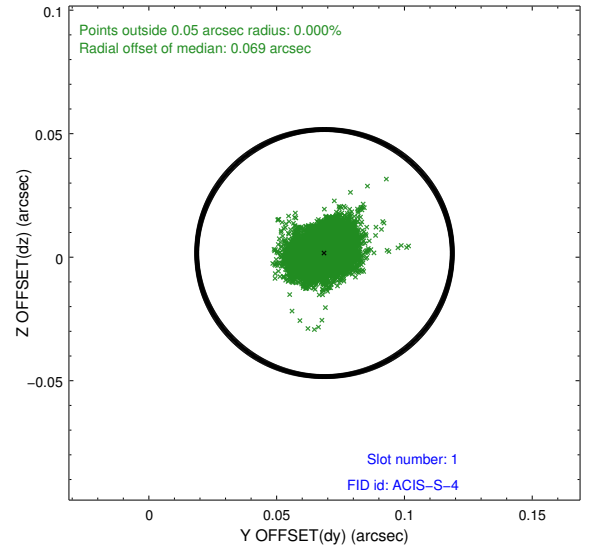
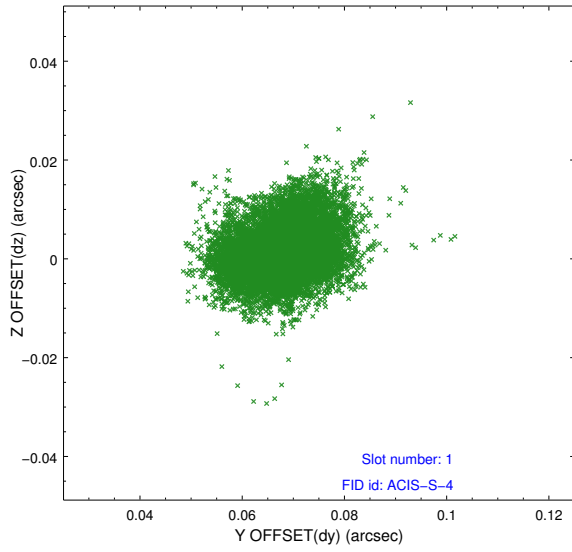


## 2.5 FID Slots

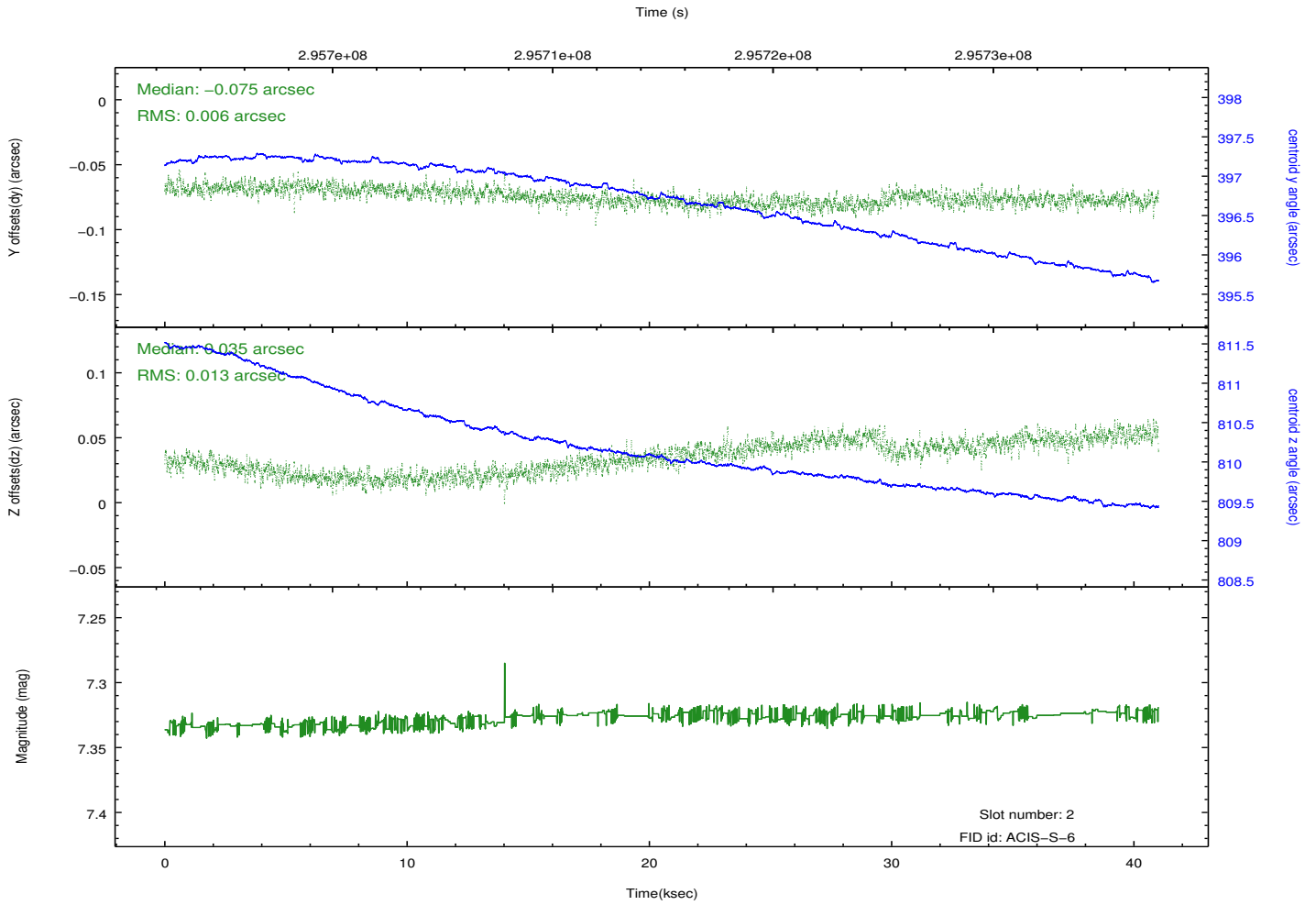
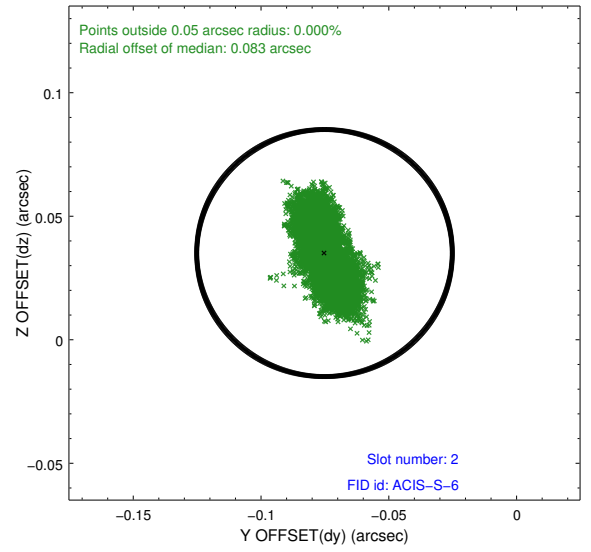
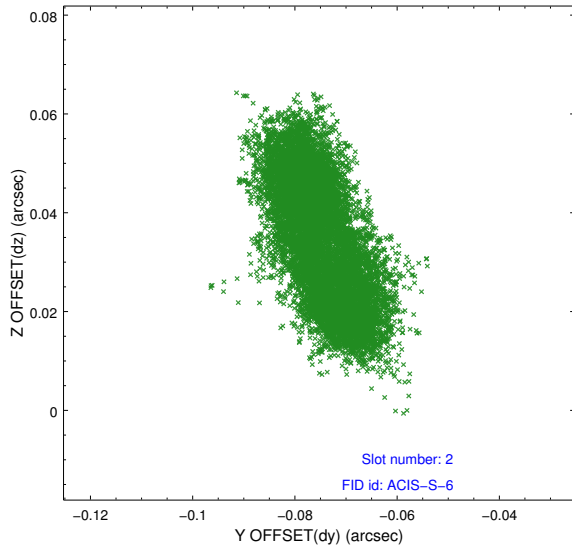
### 2.5.1 Slot 0



## 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)	2012.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.7839998

## A.2 Comments