

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 14218 - L2 Version 2  
Chandra X-Ray Center

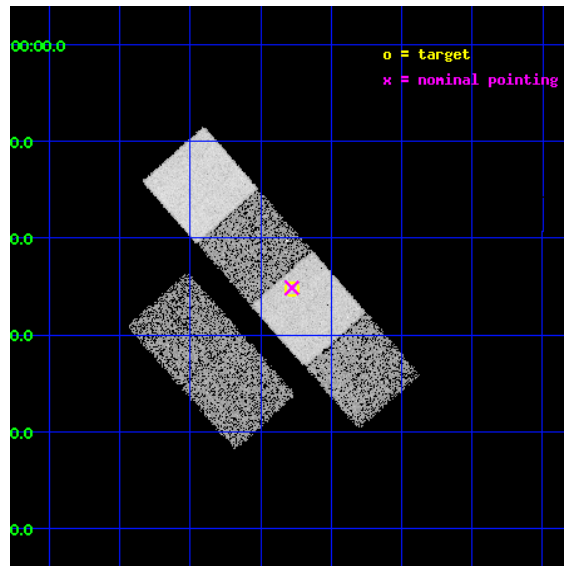
L2 Processing Date : Mar 2 2012

## 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

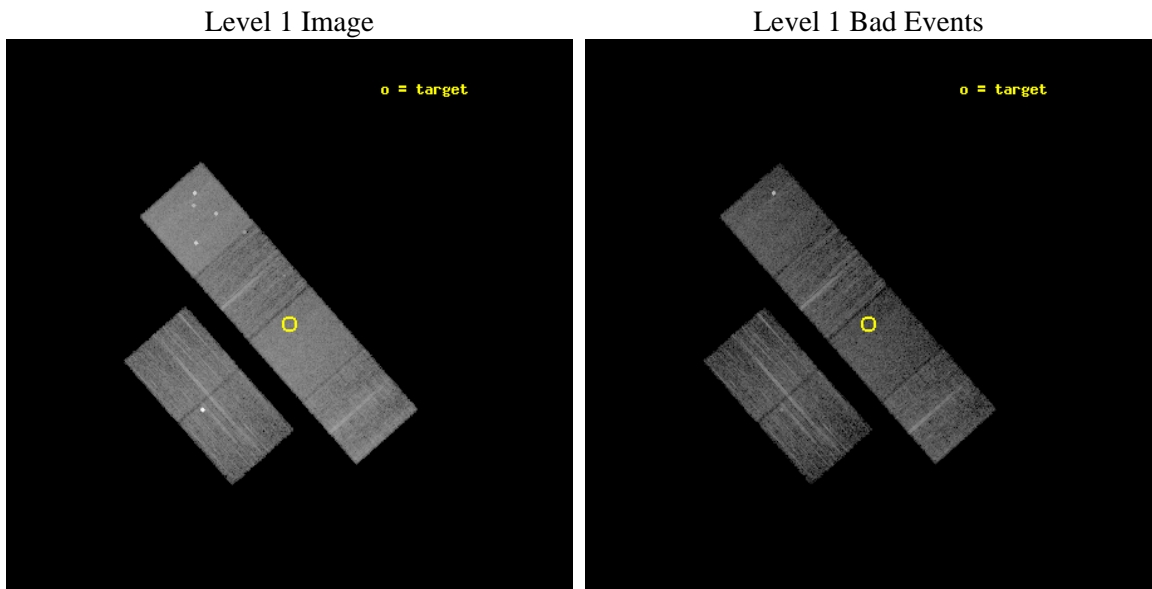
seq_num	702714	Sequence number
obs_id	14218	Observation id
title	Exploratory X-ray Monitoring of z>4 Radio-Quiet Quasars	Proposal t
observer	Prof. Ohad Shemmer	Principal investigator
object	BR 0351-1034	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	58.445417	Observer's specified target RA [deg]
dec_targ	-10.421944	Observer's specified target Dec [deg]
ra_nom	58.444580950214	Nominal RA [deg]
dec_nom	-10.419030233375	Nominal Dec [deg]
roll_nom	48.484641637794	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9964.7999629378	Sum of GTIs [s]
livetime	9838.6196657249	Livetime [s]
ontime2	9964.7999629378	Sum of GTIs [s]
ontime3	9964.7999629378	Sum of GTIs [s]
ontime5	9964.7999629378	Sum of GTIs [s]
ontime6	9964.7999629378	Sum of GTIs [s]
ontime7	9964.7999629378	Sum of GTIs [s]
ontime8	9964.7839023471	Sum of GTIs [s]
l2events	102993	Number of level 2 events



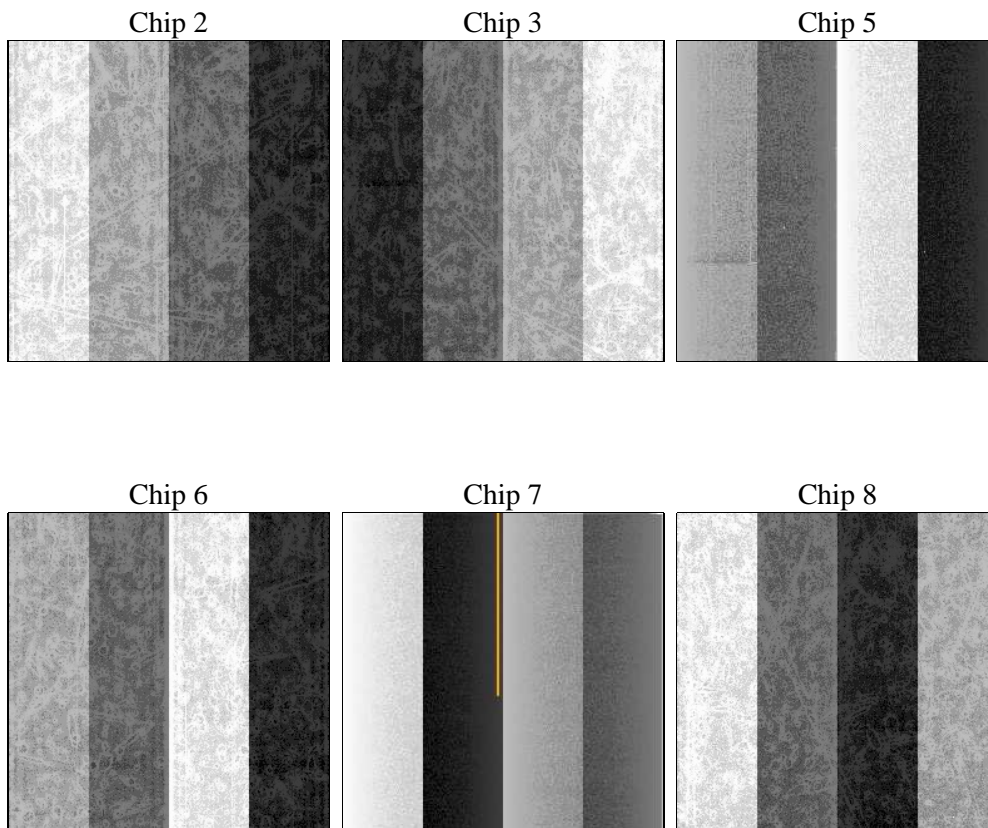
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	9964.7999629378	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime2	9964.7999629378	Sum of GTIs [s]
date	2012-03-02T14:45:03	Date and time of file creation	ontime3	9964.7999629378	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9964.7999629378	Sum of GTIs [s]
			ontime6	9964.7999629378	Sum of GTIs [s]
			ontime7	9964.7999629378	Sum of GTIs [s]
			ontime8	9964.7839023471	Sum of GTIs [s]
			l1events	450071	Number of level 1 events

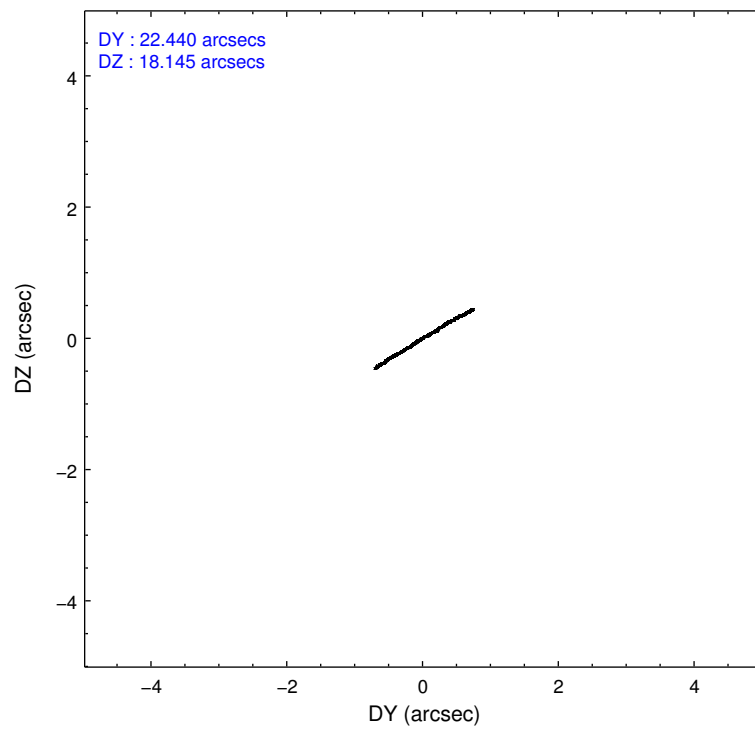
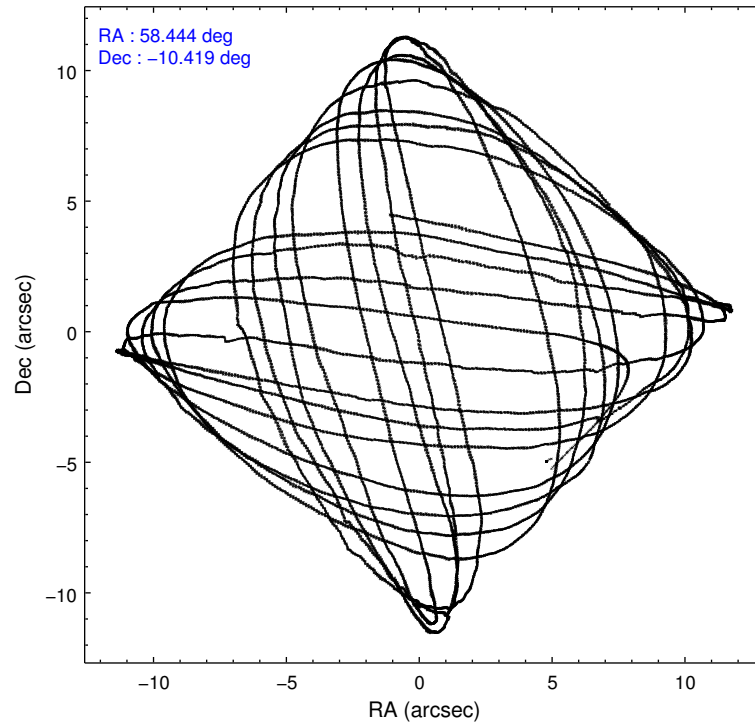
### 2.1.4 Events

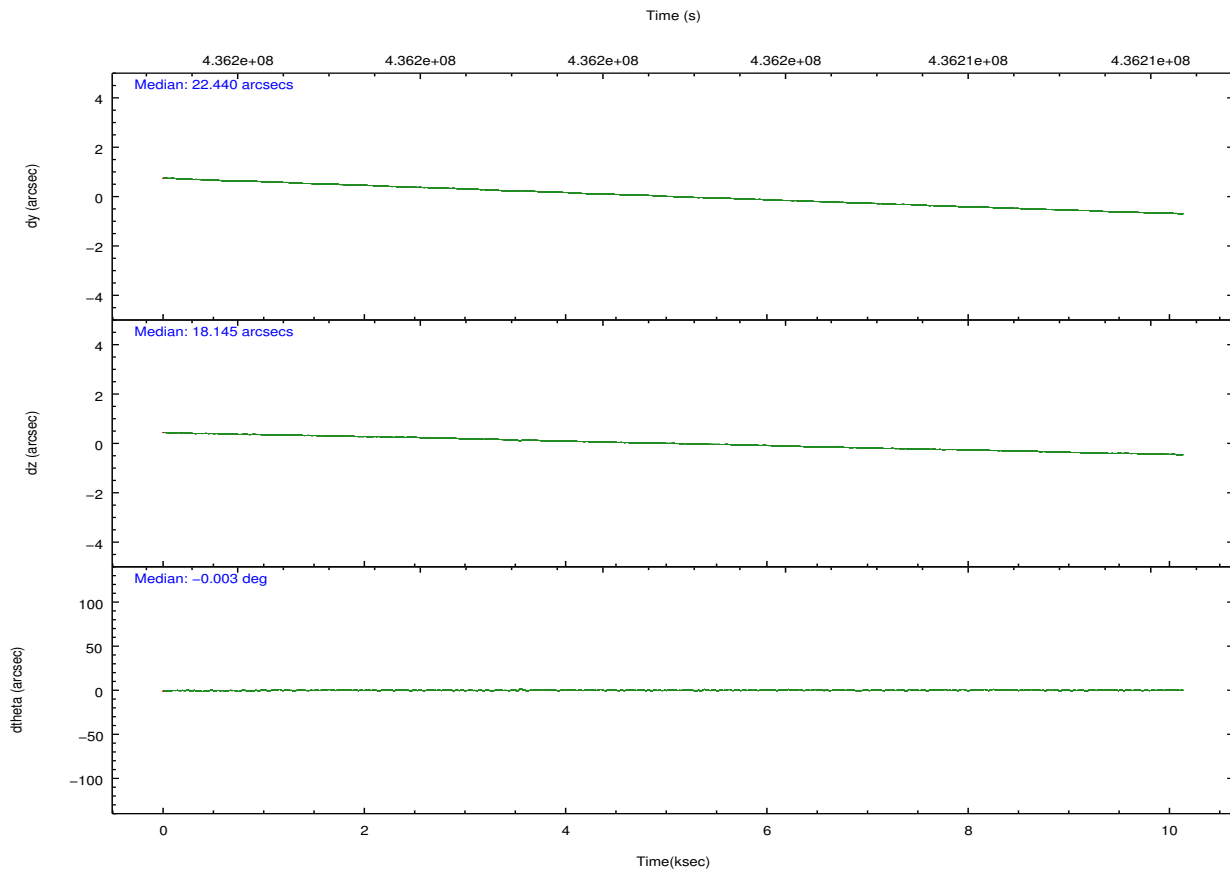
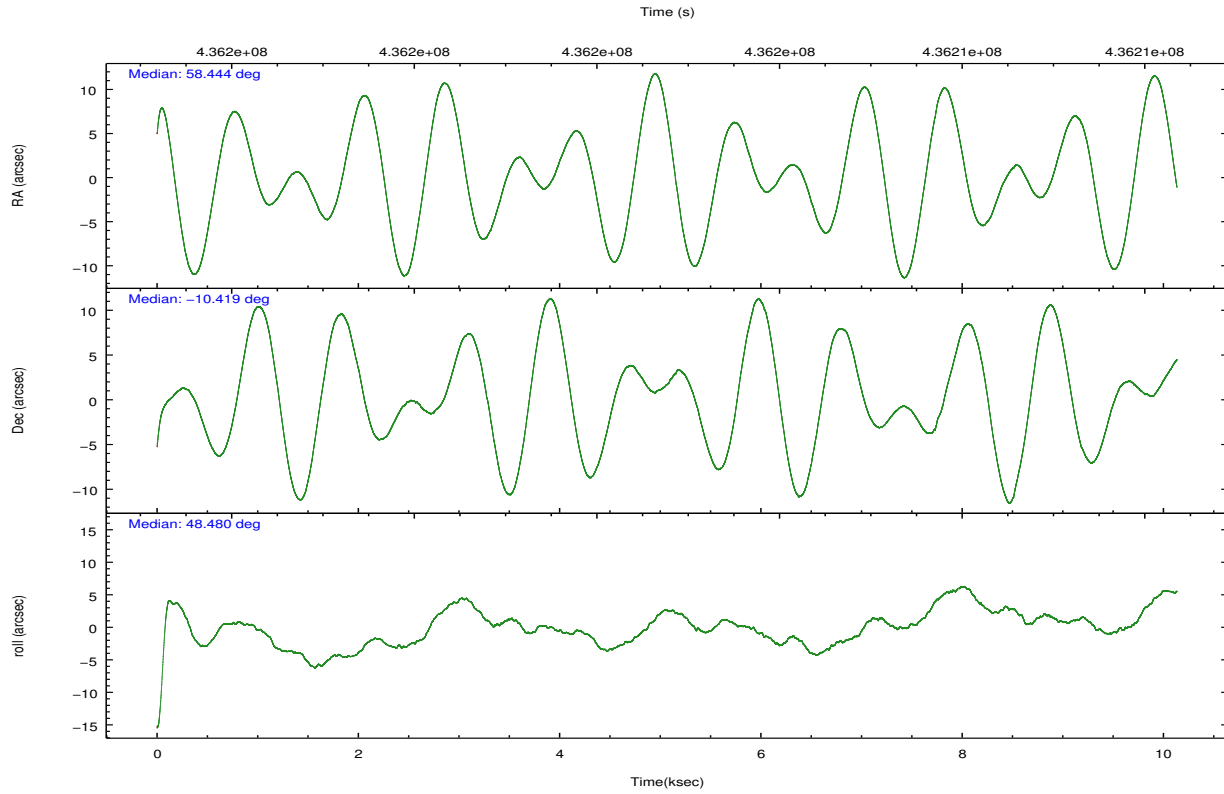
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	61302	68663	102441	60978	78839	77848	grade 0 events	2420	8081	8039	2568	3200	6095
rejected events	54398	50551	51269	53789	43674	57378		3%	11%	7%	4%	4%	7%
rejected %	88%	73%	50%	88%	55%	73%	grade 1 events	44	78	216	30	97	63
								0%	0%	0%	0%	0%	0%
							grade 2 events	1686	7307	14718	1569	7236	4701
								2%	10%	14%	2%	9%	6%
							grade 3 events	716	682	1701	711	3035	2246
								1%	0%	1%	1%	3%	2%
							grade 4 events	736	743	1603	729	3055	2143
								1%	1%	1%	1%	3%	2%
							grade 5 events	2572	3000	7983	2900	8193	4204
								4%	4%	7%	4%	10%	5%
							grade 6 events	1347	1305	25126	1621	18651	5287
								2%	1%	24%	2%	23%	6%
							grade 7 events	51781	47467	43055	50850	35372	53109
								84%	69%	42%	83%	44%	68%

## 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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	58.439396	58.4445809502139	CCD I2 on	O2	Y
[deg] Pointing Dec	-10.445902	-10.41903023337533	CCD I3 on	O1	Y
[deg] Pointing Roll	48.327101	48.48464163779393	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	436197831.184000	436196669.97734	CCD S5 on	N	N
Observation start date	2011-10-28T14:02:45	2011-10-28T13:44:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	436207831.184000	436208455.94046	On-chip summing requested	N	N
Observation end date	2011-10-28T16:49:25	2011-10-28T17:00:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



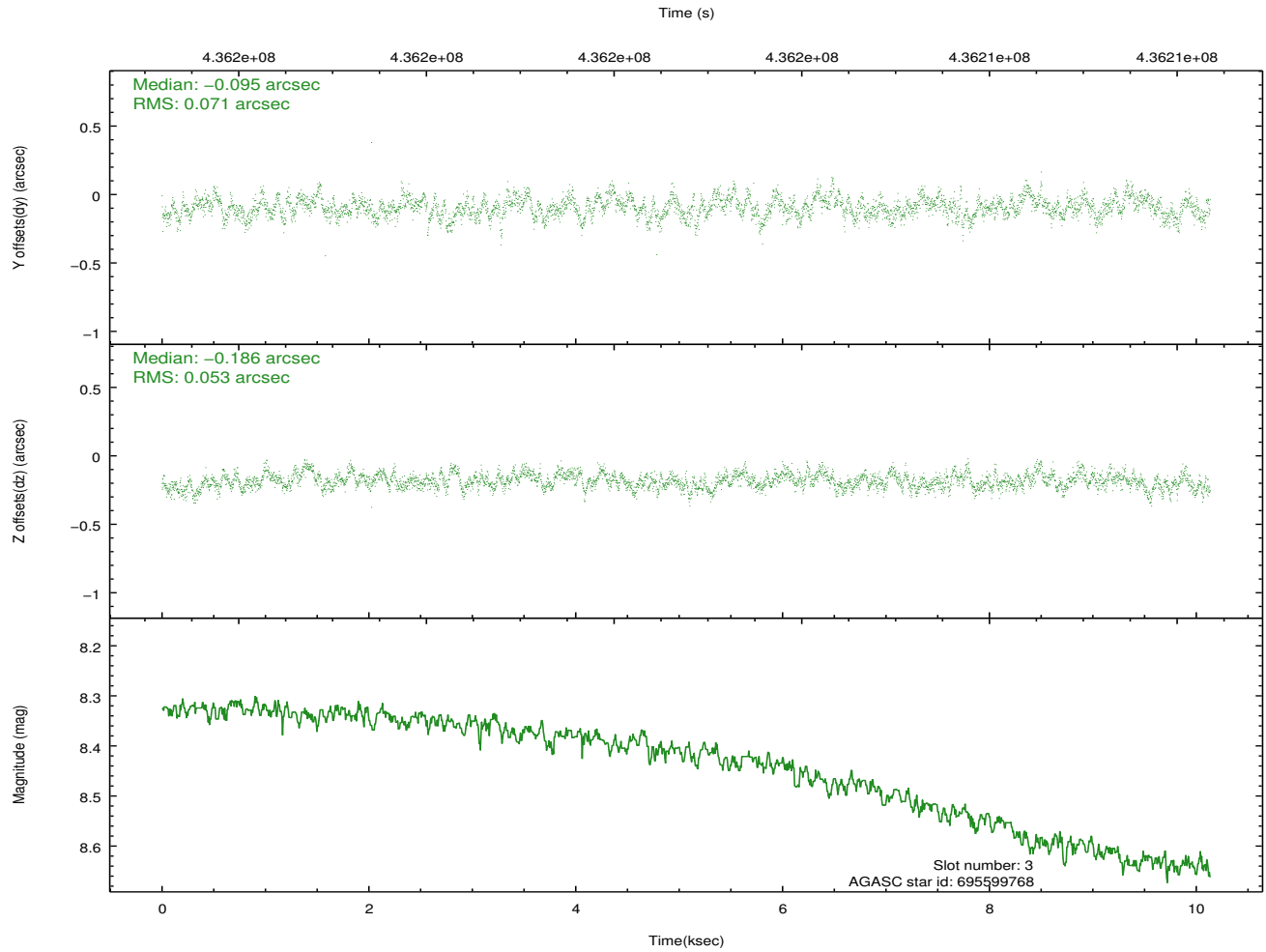
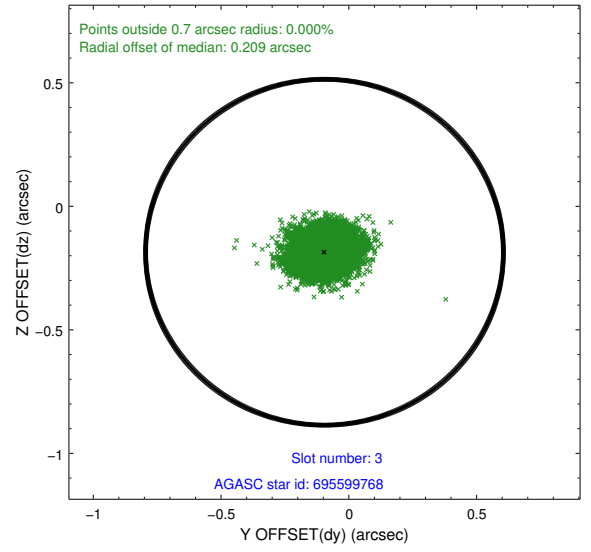
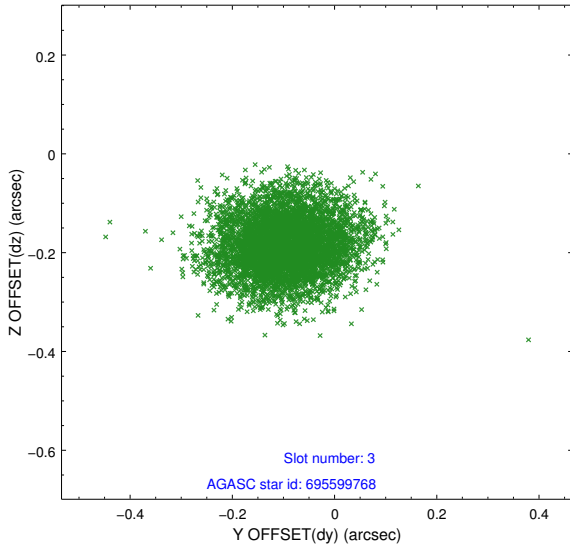


### Slot Statistics

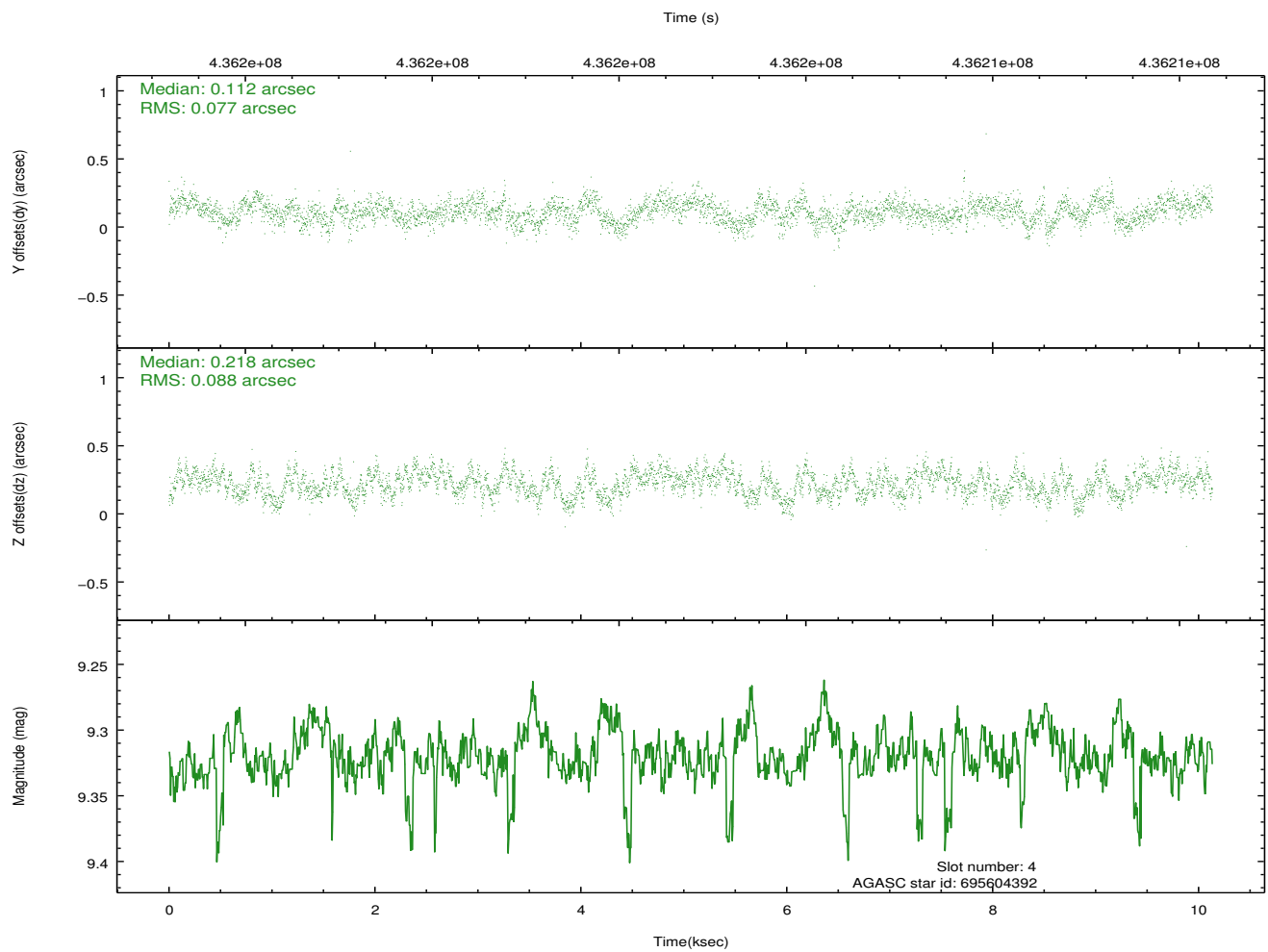
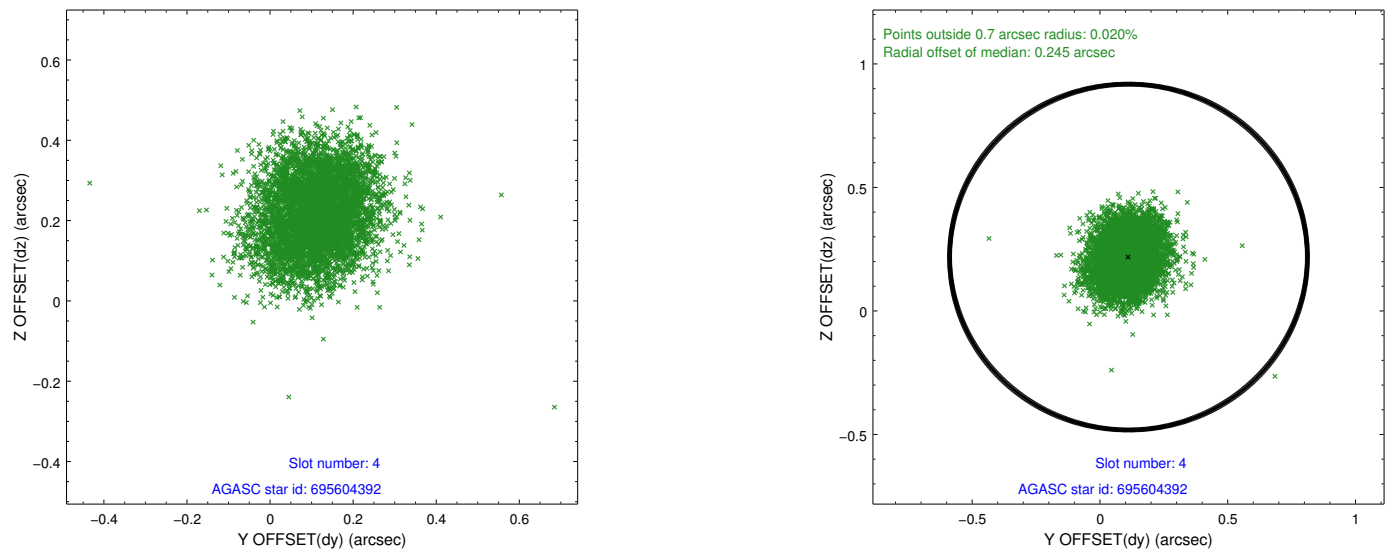
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	2472	-0.116	-0.088	0.014	0.021	0.000000	0.000000	-775.77	-1739.62
1	FID	ACIS-S-4	7.02	2472	0.327	0.079	0.031	0.046	0.000000	0.000000	2137.75	168.43
2	FID	ACIS-S-5	7.04	2471	-0.245	0.016	0.023	0.037	0.000000	0.000000	-1828.04	162.70
3	GUIDE	695599768	8.41	4944	-0.095	-0.186	0.094	0.153	57.972264	-10.530423	-1328.65	1031.02
4	GUIDE	695604392	9.32	4910	0.112	0.218	0.125	0.197	58.154149	-10.872582	-1817.87	-267.65
5	GUIDE	695735384	9.57	4907	0.058	-0.011	0.169	0.271	59.134934	-10.249864	2163.24	-1372.90
6	GUIDE	695736200	8.98	4935	-0.024	-0.118	0.124	0.194	58.904941	-10.536646	851.66	-1448.98
7	GUIDE	695738664	9.21	4919	-0.043	0.094	0.129	0.207	59.003553	-10.335305	1625.49	-1228.79

## 2.4 Star Slots

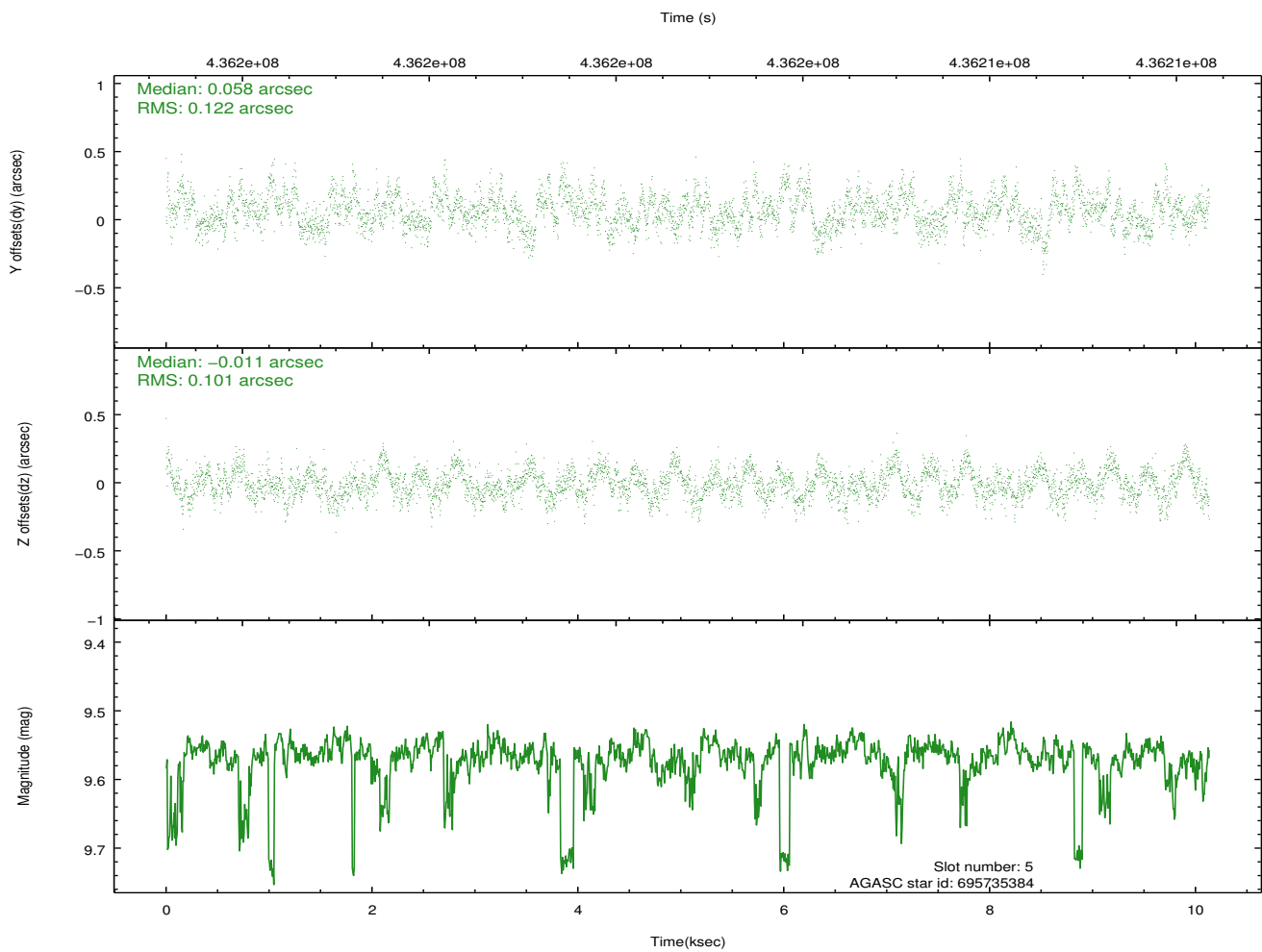
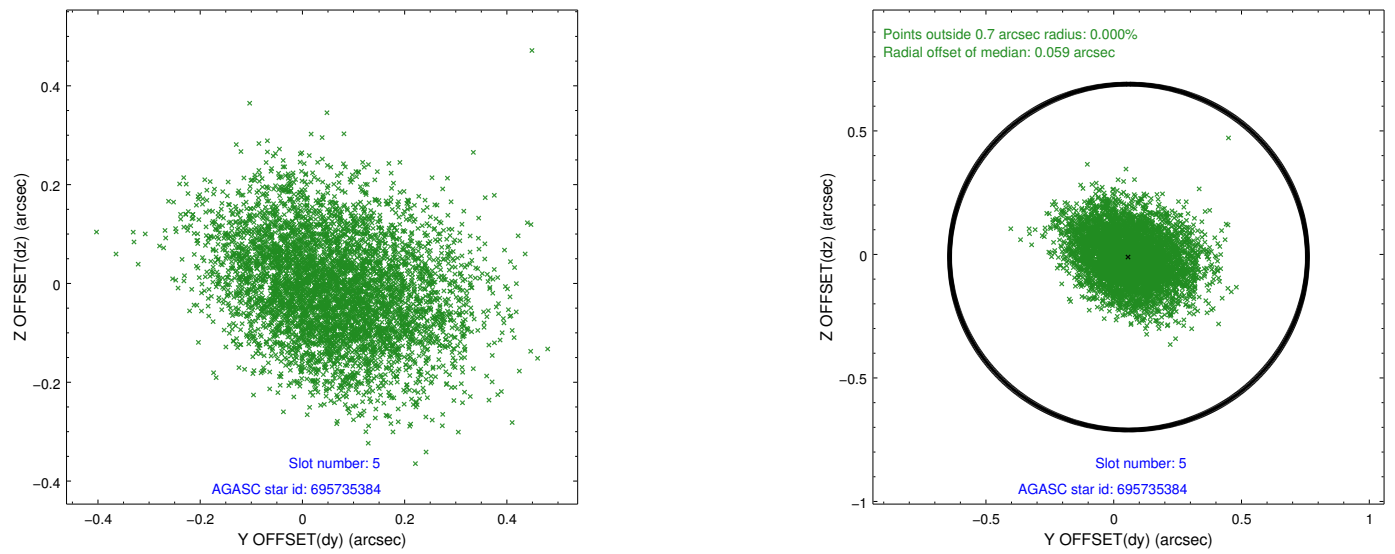
### 2.4.1 Slot 3



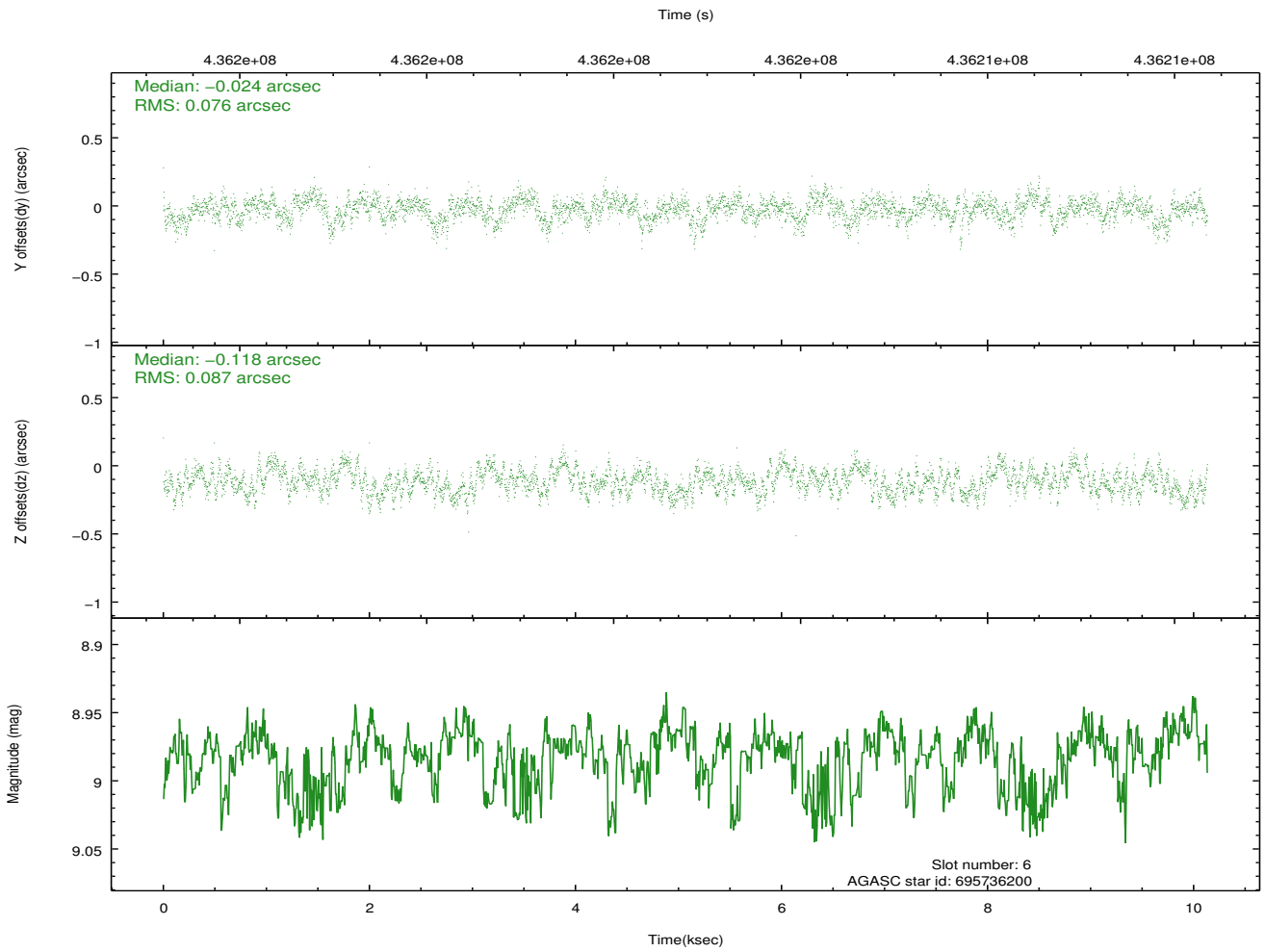
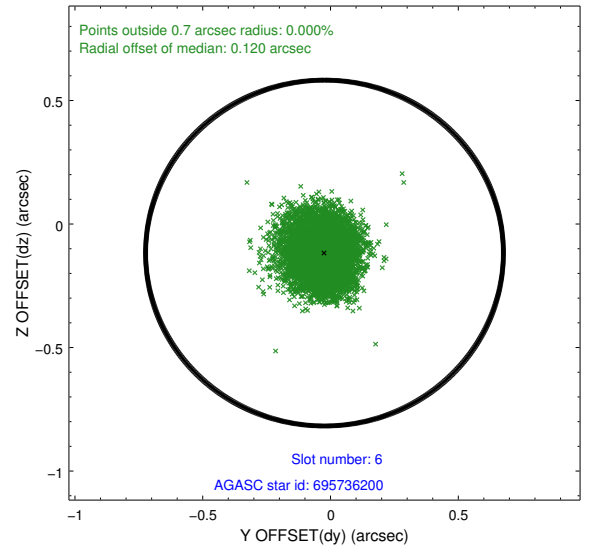
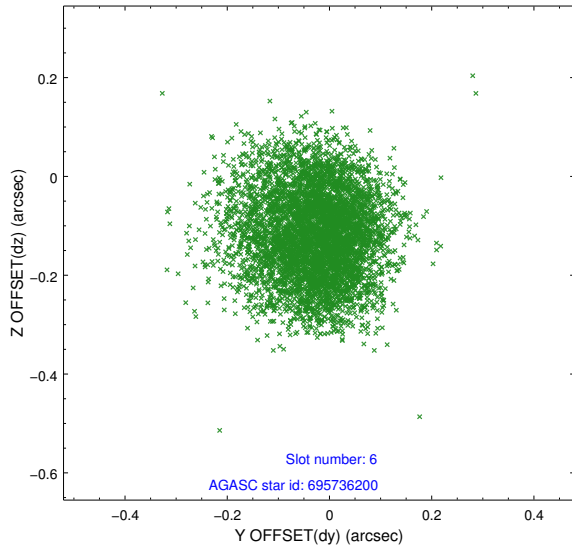
## 2.4.2 Slot 4



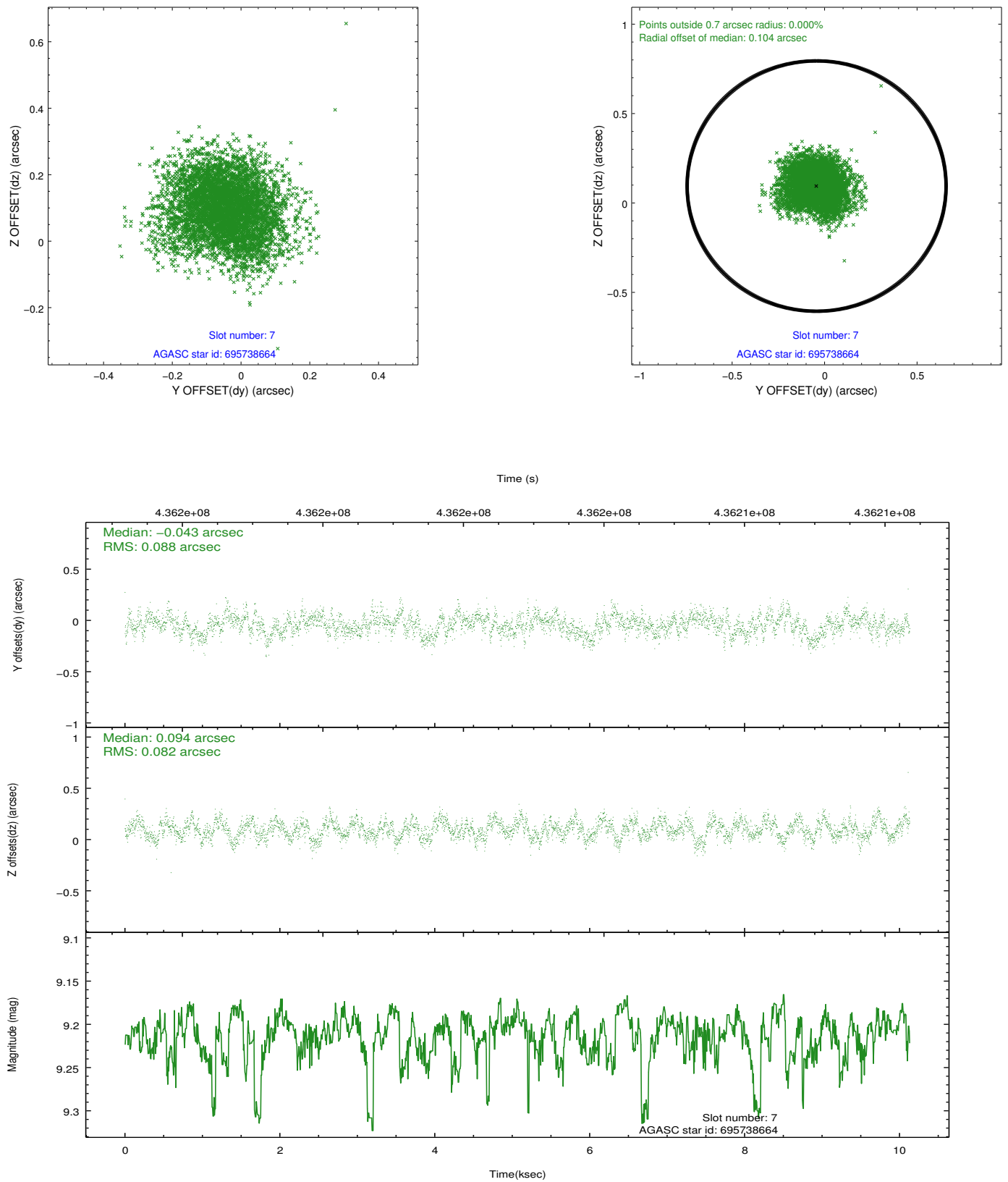
### 2.4.3 Slot 5



### 2.4.4 Slot 6

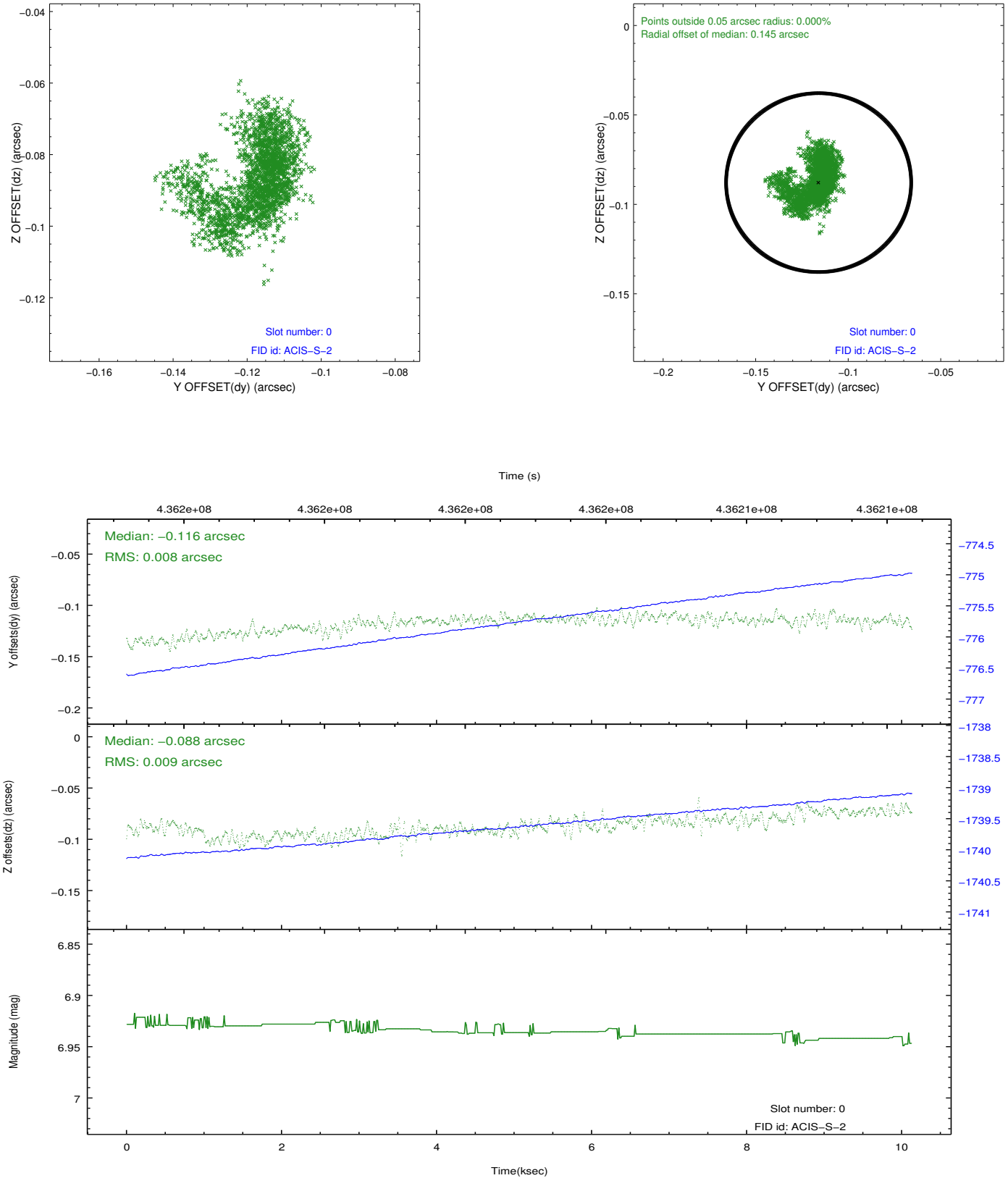


## 2.4.5 Slot 7

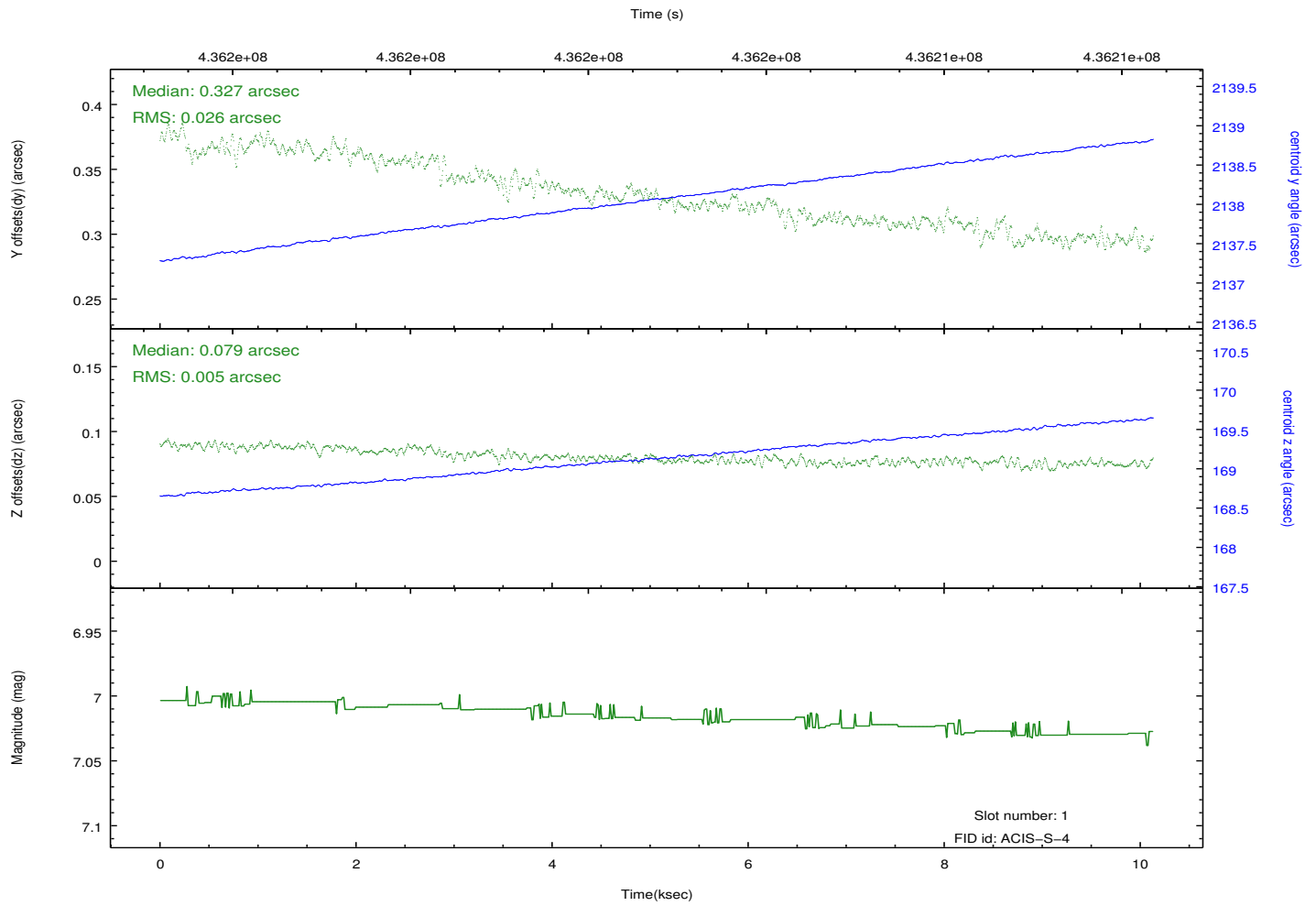
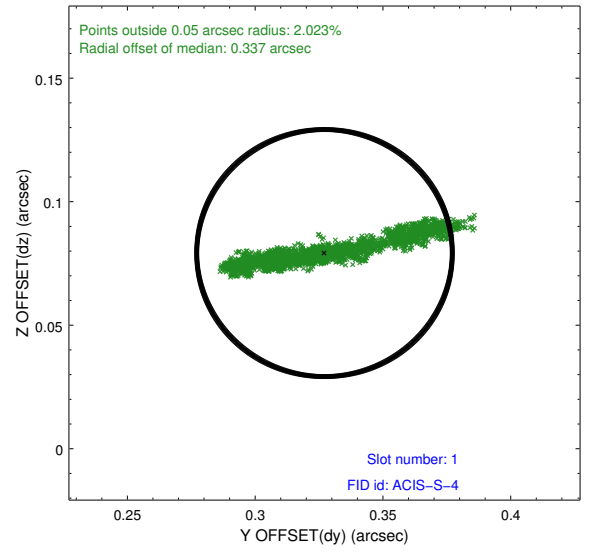
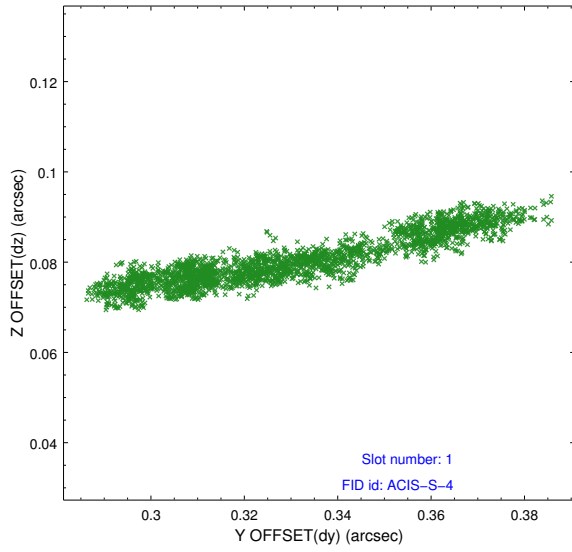


## 2.5 FID Slots

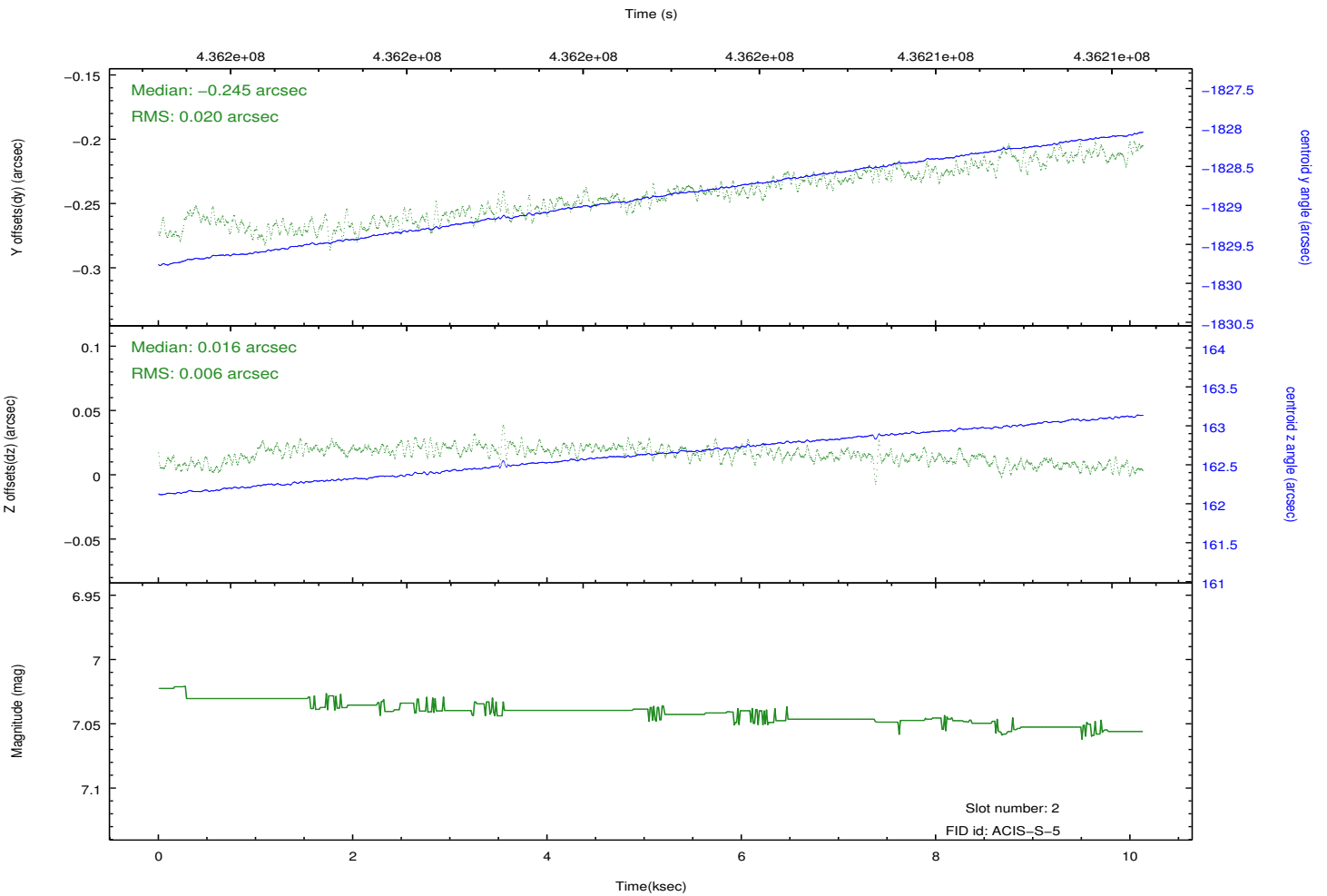
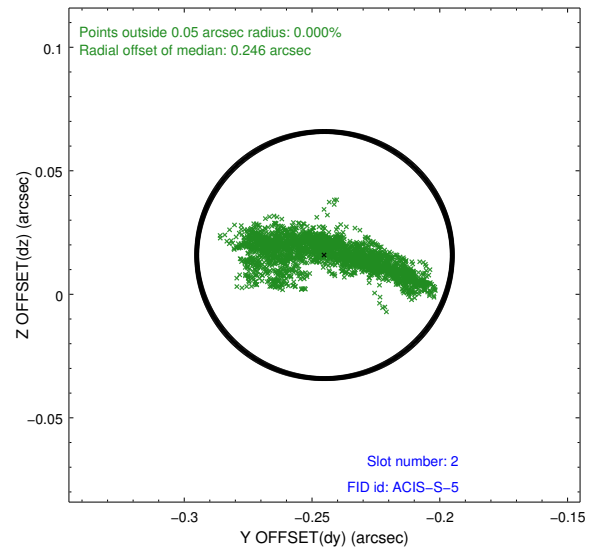
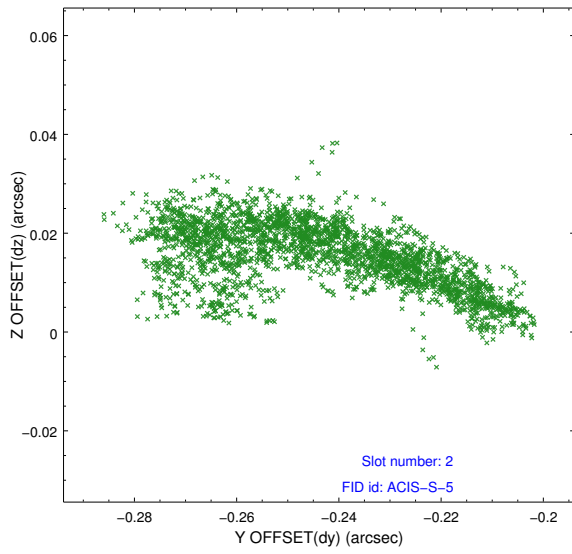
### 2.5.1 Slot 0



## 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)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9647999629378

## A.2 Comments