

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12519 - L2 Version 3  
Chandra X-Ray Center

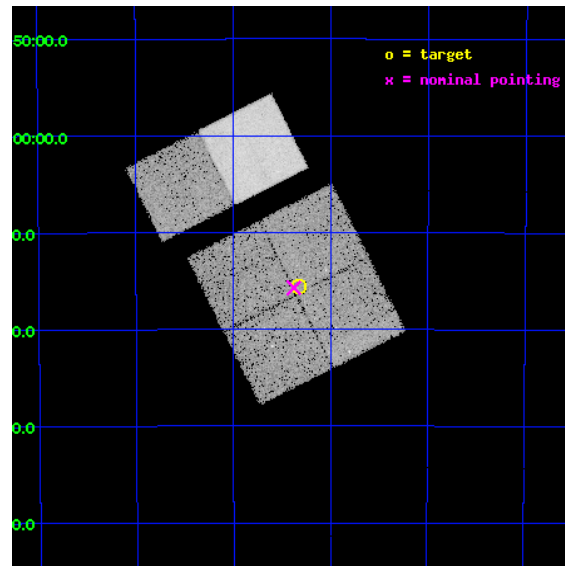
L2 Processing Date : Feb 12 2012

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# 1 Front

seq_num	401260	Sequence number
obs_id	12519	Observation id
title	Census of the Normal Spiral Arm Region	Proposal title
observer	Dr. John Tomsick	Principal investigator
object	Norma Region	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	249.582624	Observer's specified target RA [deg]
dec_targ	-47.260778	Observer's specified target Dec [deg]
ra_nom	249.59433421085	Nominal RA [deg]
dec_nom	-47.262080900056	Nominal Dec [deg]
roll_nom	333.21728629917	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19555.098421693	Sum of GTIs [s]
livetime	19307.479990811	Livetime [s]
ontime0	19558.216311991	Sum of GTIs [s]
ontime1	19555.016321778	Sum of GTIs [s]
ontime2	19558.298391998	Sum of GTIs [s]
ontime3	19555.098421693	Sum of GTIs [s]
ontime6	19555.158906817	Sum of GTIs [s]
ontime7	19558.380472004	Sum of GTIs [s]
l2events	137142	Number of level 2 events

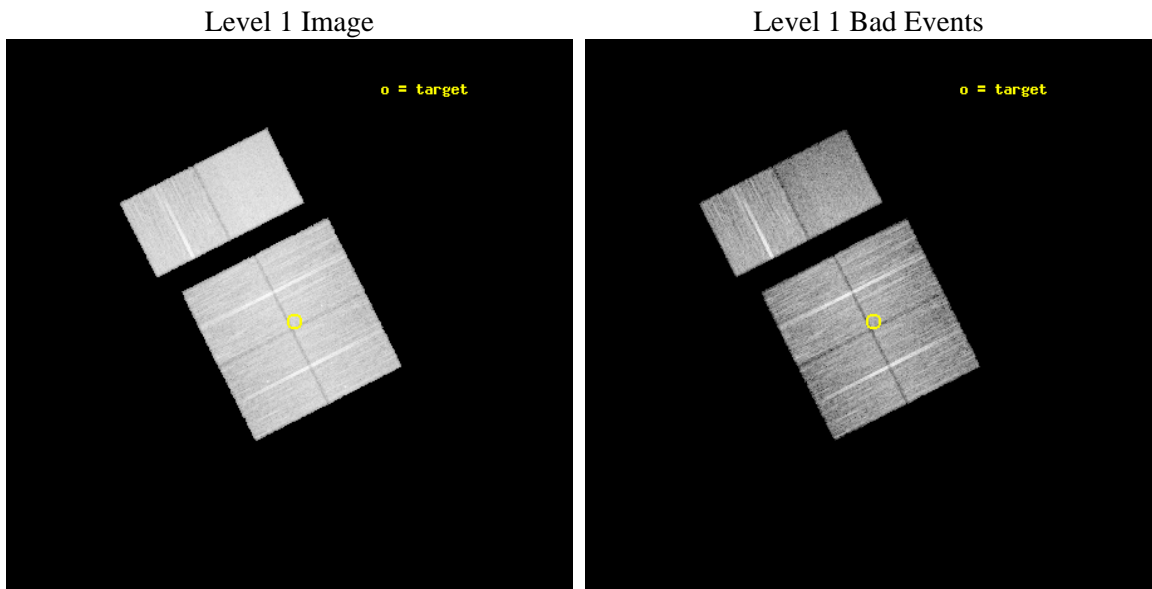




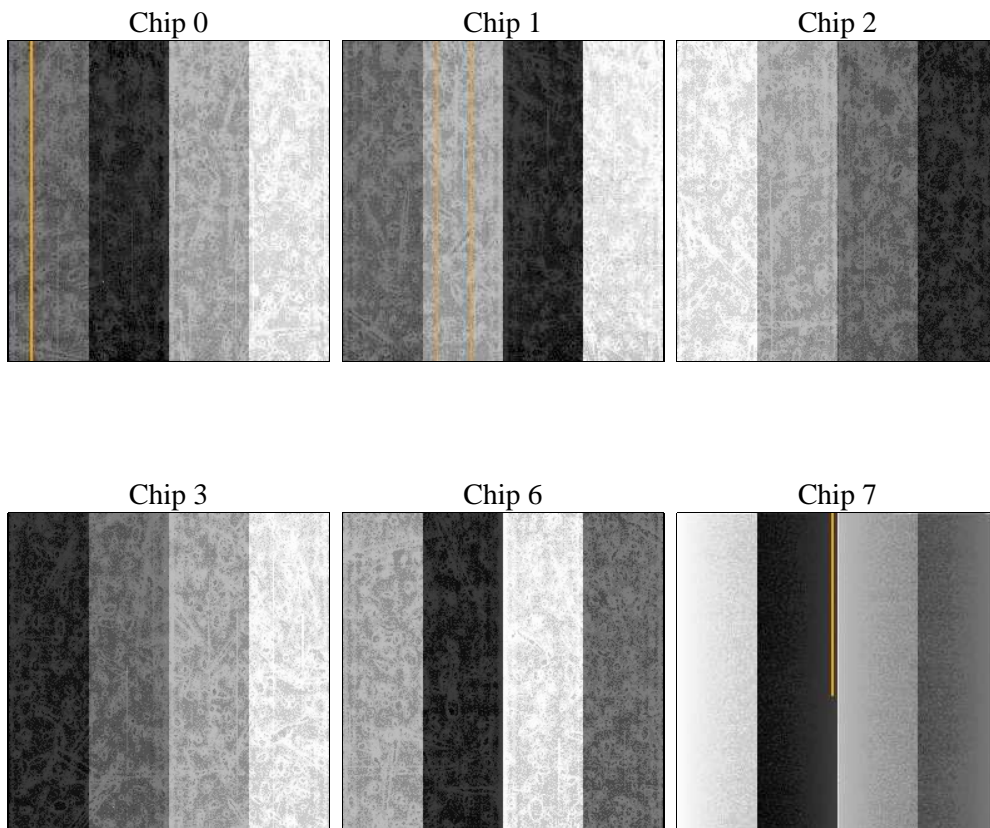
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	19555.098421693	Sum of GTIs [s]
caldsver	4.4.7	&#160	ontime0	19558.216311991	Sum of GTIs [s]
date	2012-02-12T11:05:29	Date and time of file creation	ontime1	19555.016321778	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	19558.298391998	Sum of GTIs [s]
			ontime3	19555.098421693	Sum of GTIs [s]
			ontime6	19555.158906817	Sum of GTIs [s]
			ontime7	19558.380472004	Sum of GTIs [s]
			l1events	768863	Number of level 1 events

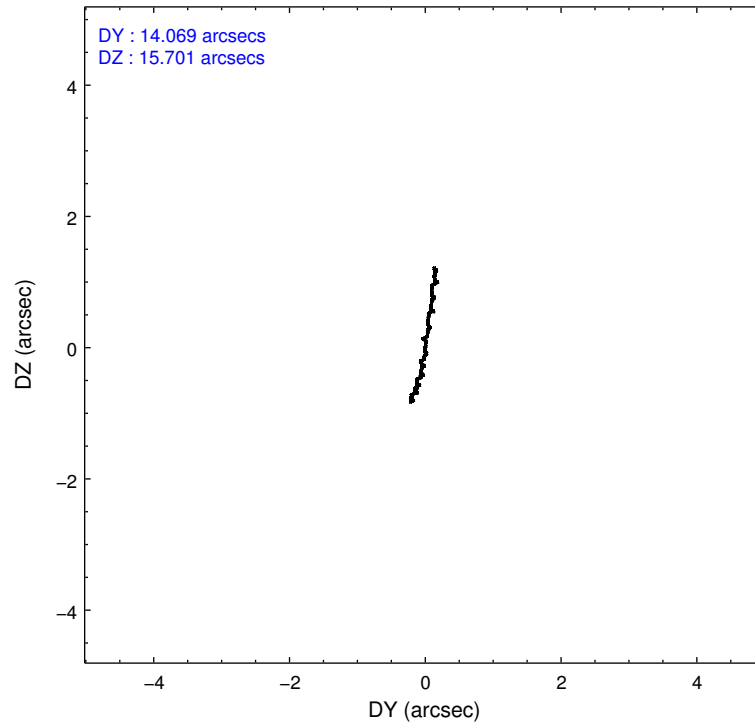
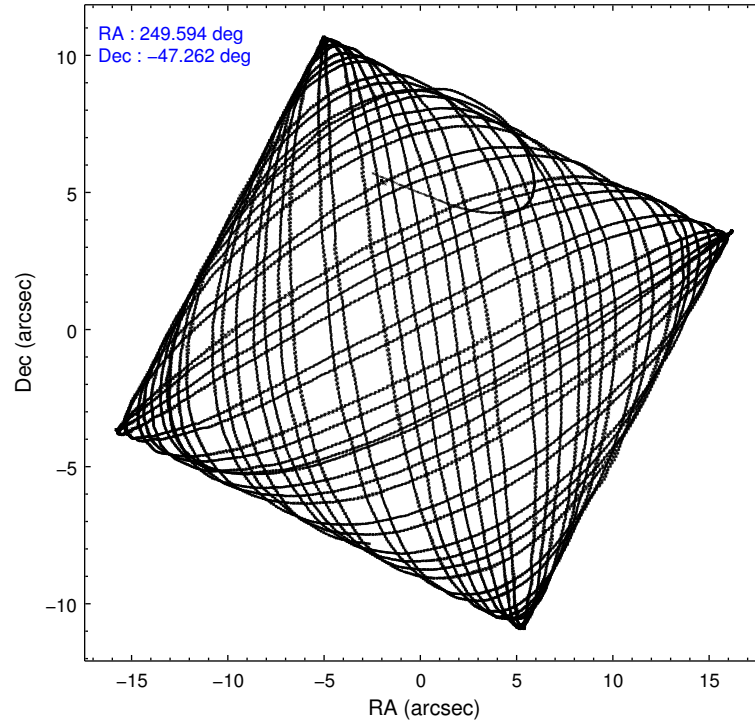
### 2.1.4 Events

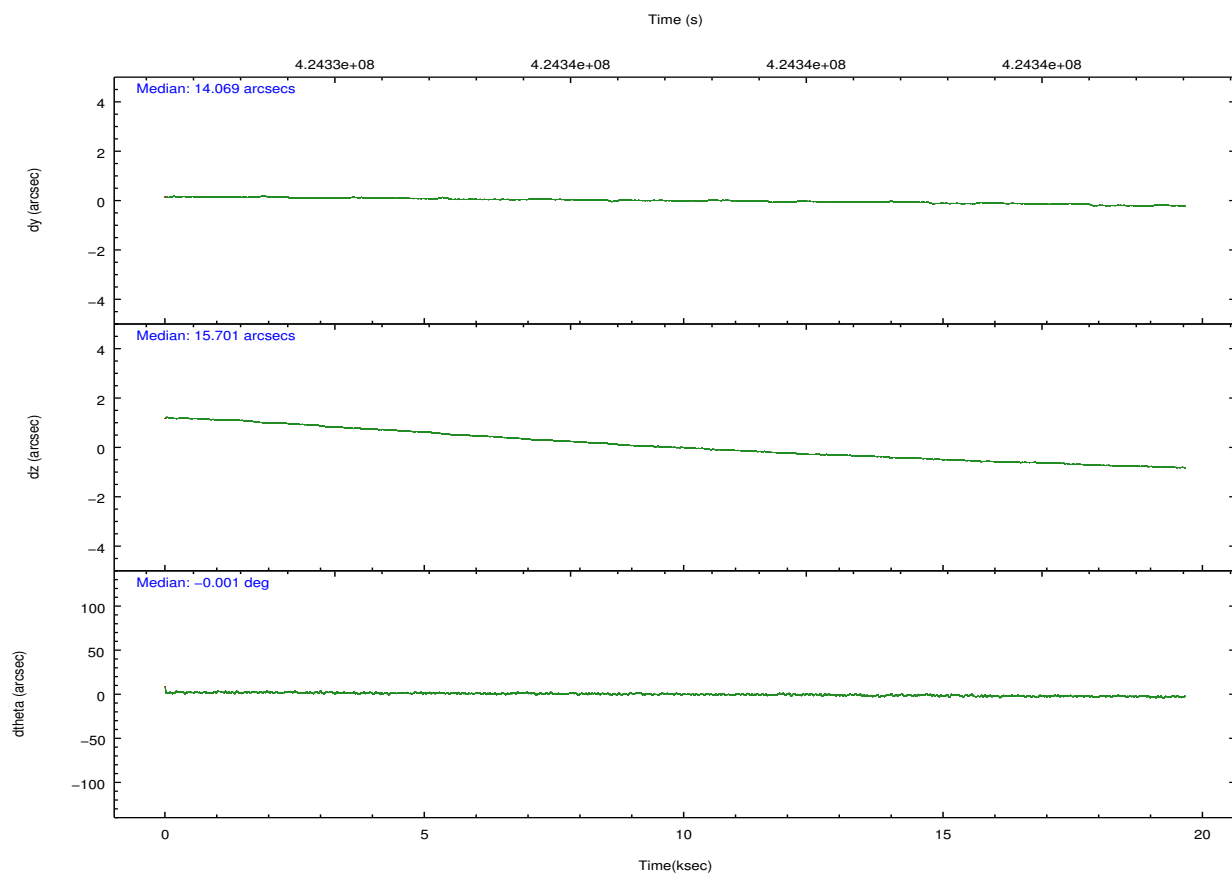
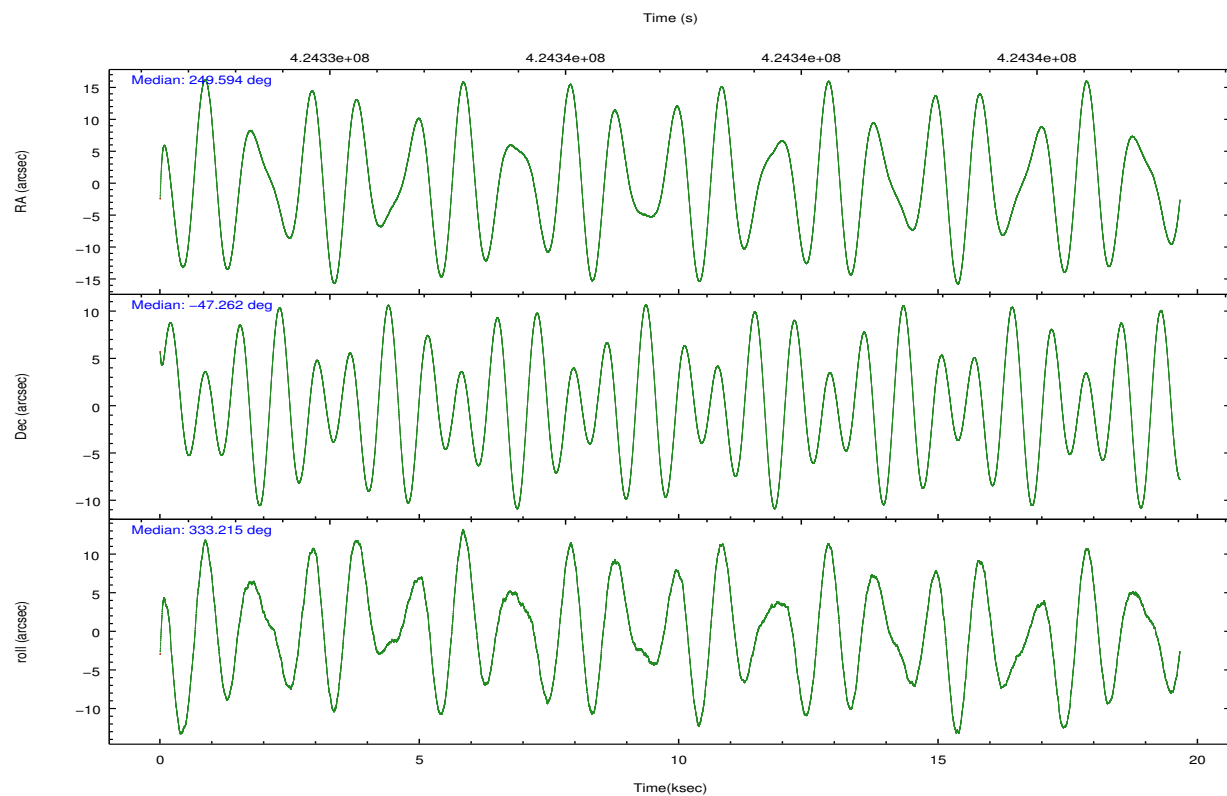
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	110481	115516	127214	124053	131782	159817	grade 0 events	5967	6757	5693	5611	5669	6862
rejected events	94866	98140	112360	109499	116164	87027		5%	5%	4%	4%	4%	4%
rejected %	85%	84%	88%	88%	88%	54%	grade 1 events	77	52	73	95	74	215
								0%	0%	0%	0%	0%	0%
							grade 2 events	3605	3925	3431	3128	3541	14836
								3%	3%	2%	2%	2%	9%
							grade 3 events	1550	1685	1462	1417	1549	6463
								1%	1%	1%	1%	1%	4%
							grade 4 events	1432	1581	1482	1511	1465	6409
								1%	1%	1%	1%	1%	4%
							grade 5 events	5224	5519	4810	5943	6058	16485
								4%	4%	3%	4%	4%	10%
							grade 6 events	3064	3433	2789	2888	3395	38234
								2%	2%	2%	2%	2%	23%
							grade 7 events	89562	92564	107474	103460	110031	70313
								81%	80%	84%	83%	83%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	249.553924	249.5943342108465	CCD I2 on	Y	Y
[deg] Pointing Dec	-47.263756	-47.26208090005554	CCD I3 on	Y	Y
[deg] Pointing Roll	332.978926	333.2172862991708	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5899487761303	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.002504226799430853	CCD S4 on	N	N
[s] Observation start time (MET)	424327555.184000	424326313.04085	CCD S5 on	N	N
Observation start date	2011-06-13T04:44:49	2011-06-13T04:25:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	424347055.184000	424347188.70444	On-chip summing requested	N	N
Observation end date	2011-06-13T10:09:49	2011-06-13T10:13:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



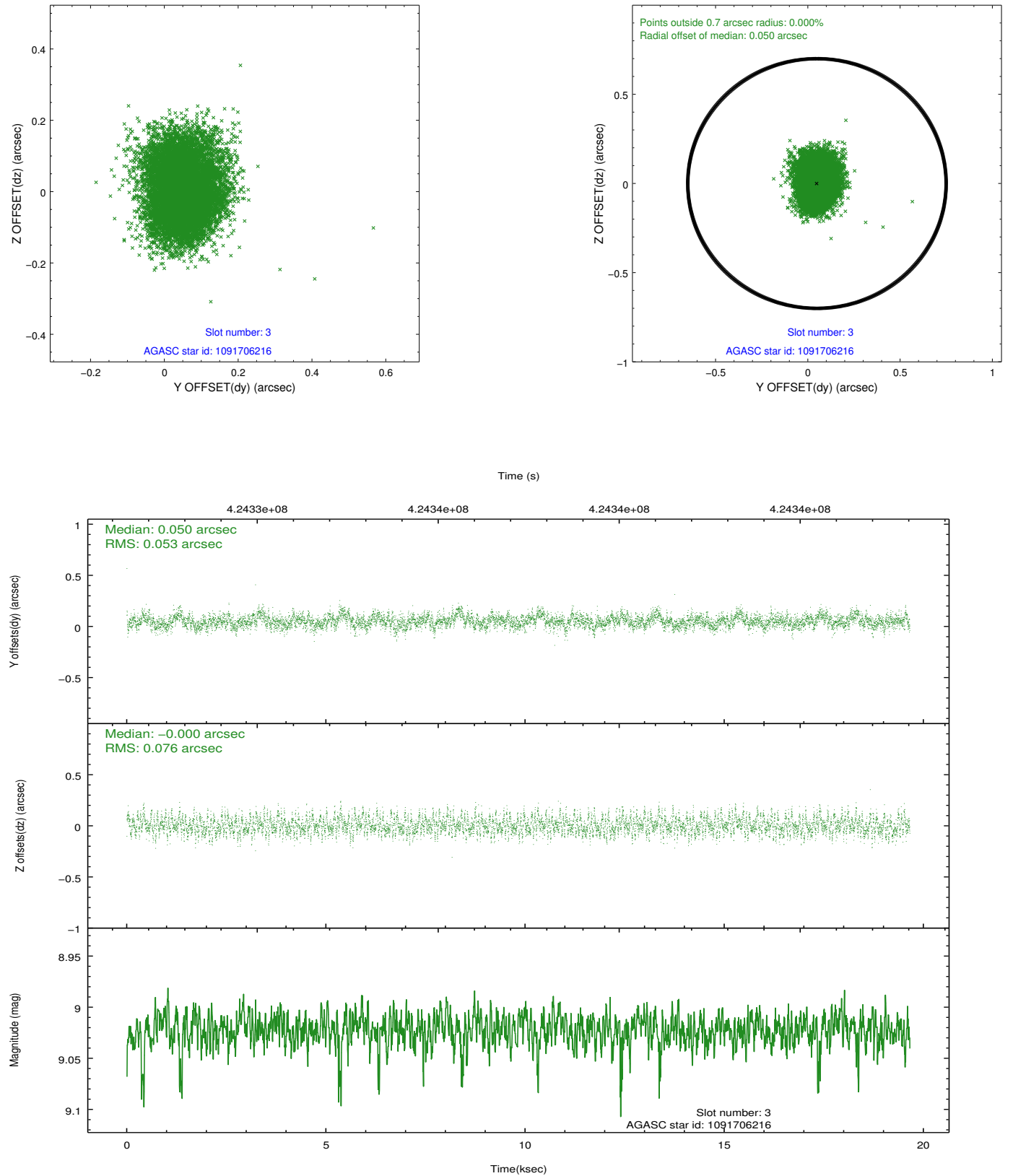


### Slot Statistics

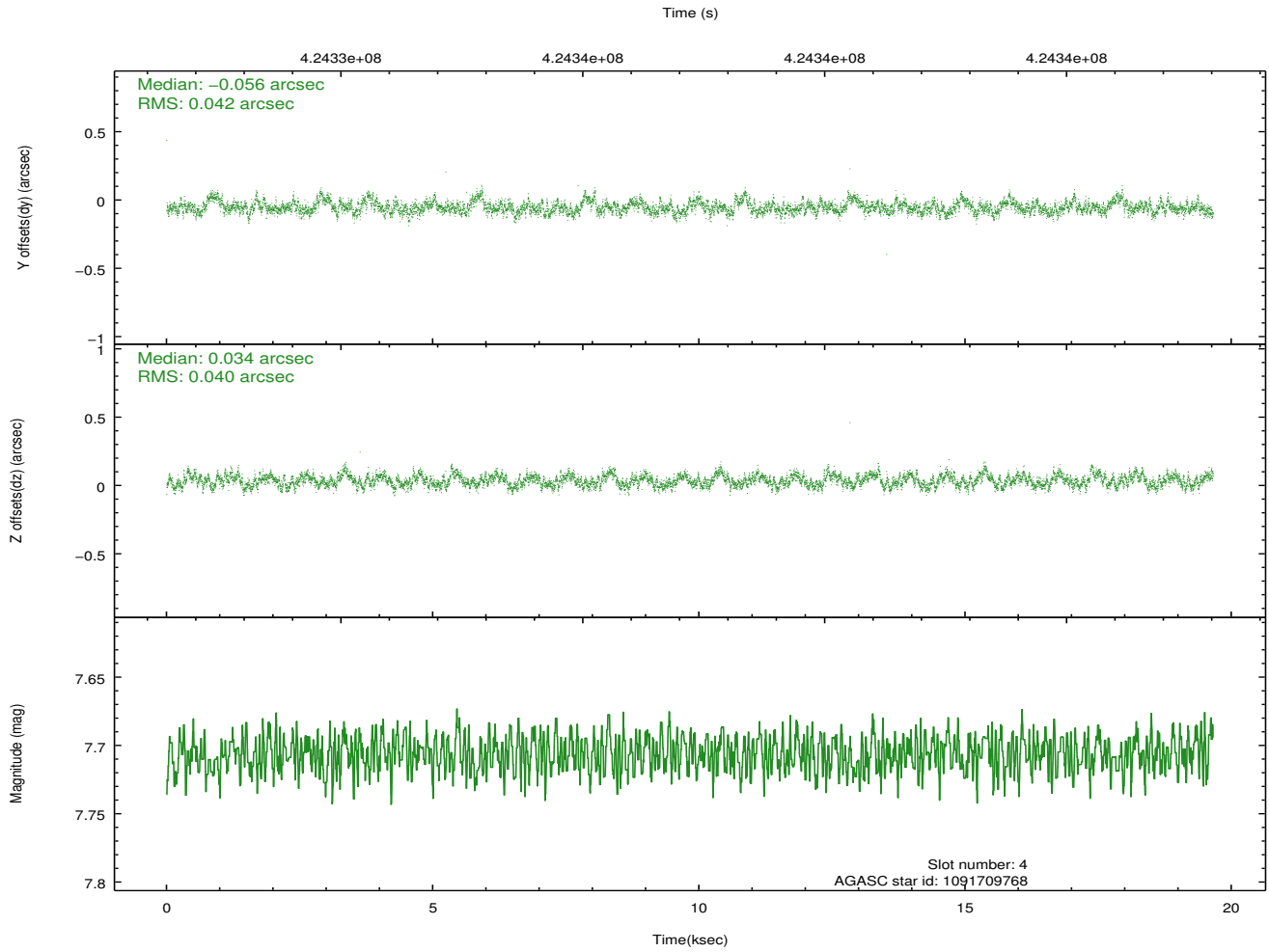
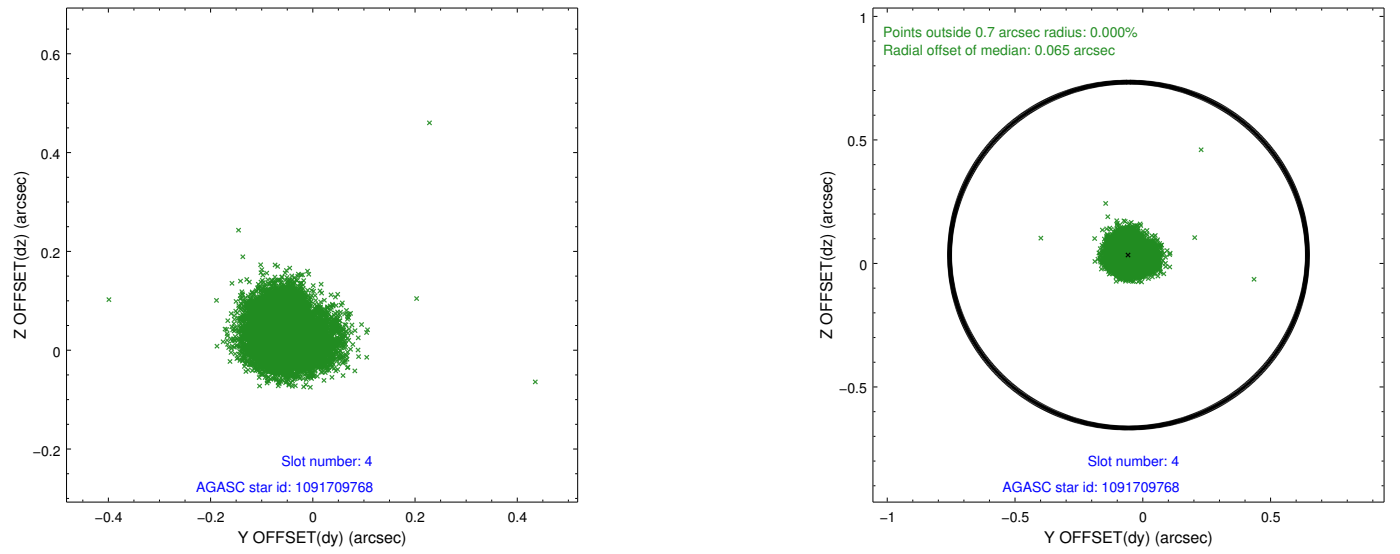
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	4795	0.023	0.022	0.022	0.038	0.000000	0.000000	925.43	-839.34
1	FID	ACIS-I-2	6.94	4794	-0.120	-0.058	0.013	0.026	0.000000	0.000000	-768.69	-845.93
2	FID	ACIS-I-6	7.02	4795	0.006	0.097	0.015	0.025	0.000000	0.000000	391.01	1702.45
3	GUIDE	1091706216	9.02	9580	0.050	-0.000	0.098	0.160	248.520013	-47.617493	-1648.21	-2289.06
4	GUIDE	1091709768	7.71	9590	-0.056	0.034	0.061	0.097	249.435228	-47.706899	469.39	-1552.23
5	GUIDE	1091709800	9.16	9548	-0.112	-0.139	0.135	0.209	249.801955	-47.310212	617.12	123.96
6	GUIDE	1091705016	7.81	9586	-0.144	0.010	0.062	0.097	249.888030	-47.558250	1206.10	-576.97
7	GUIDE	1091704824	9.12	9583	0.258	0.086	0.137	0.218	249.173141	-47.336759	-706.11	-658.01

## 2.4 Star Slots

### 2.4.1 Slot 3

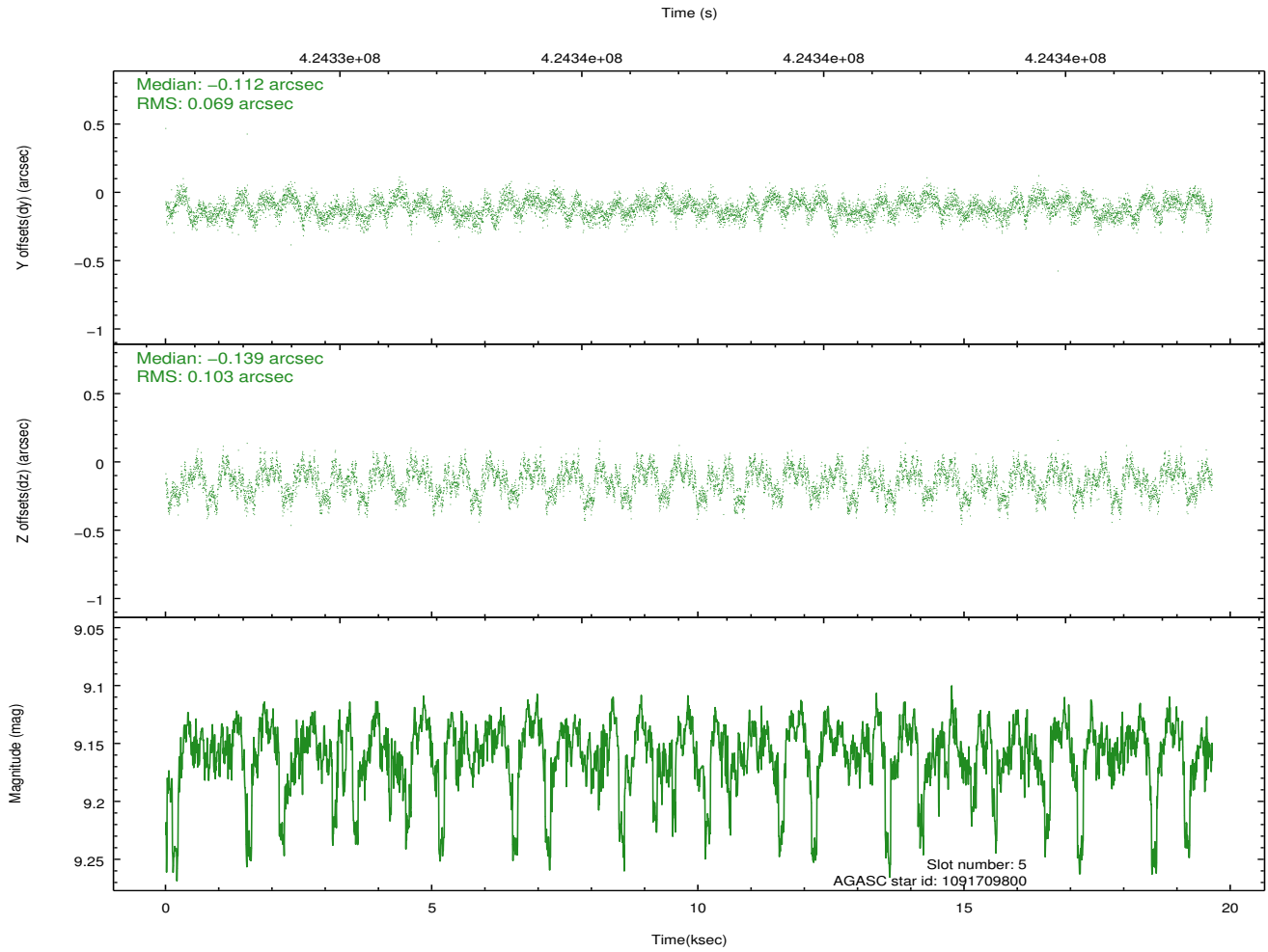
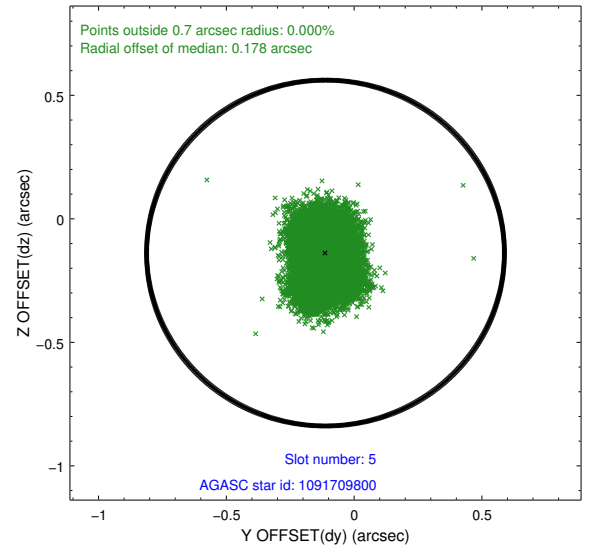
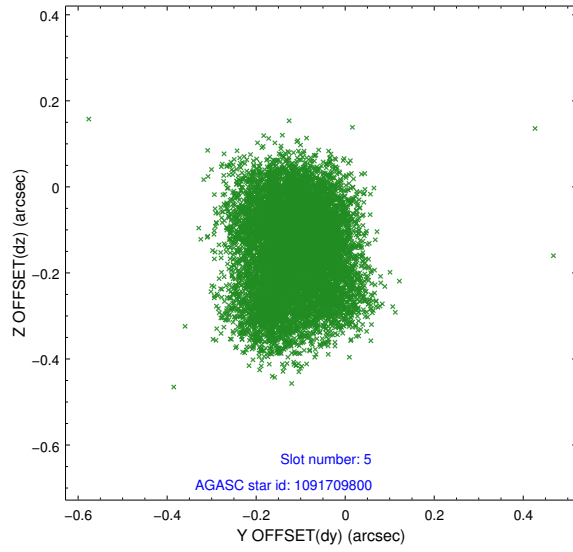


## 2.4.2 Slot 4

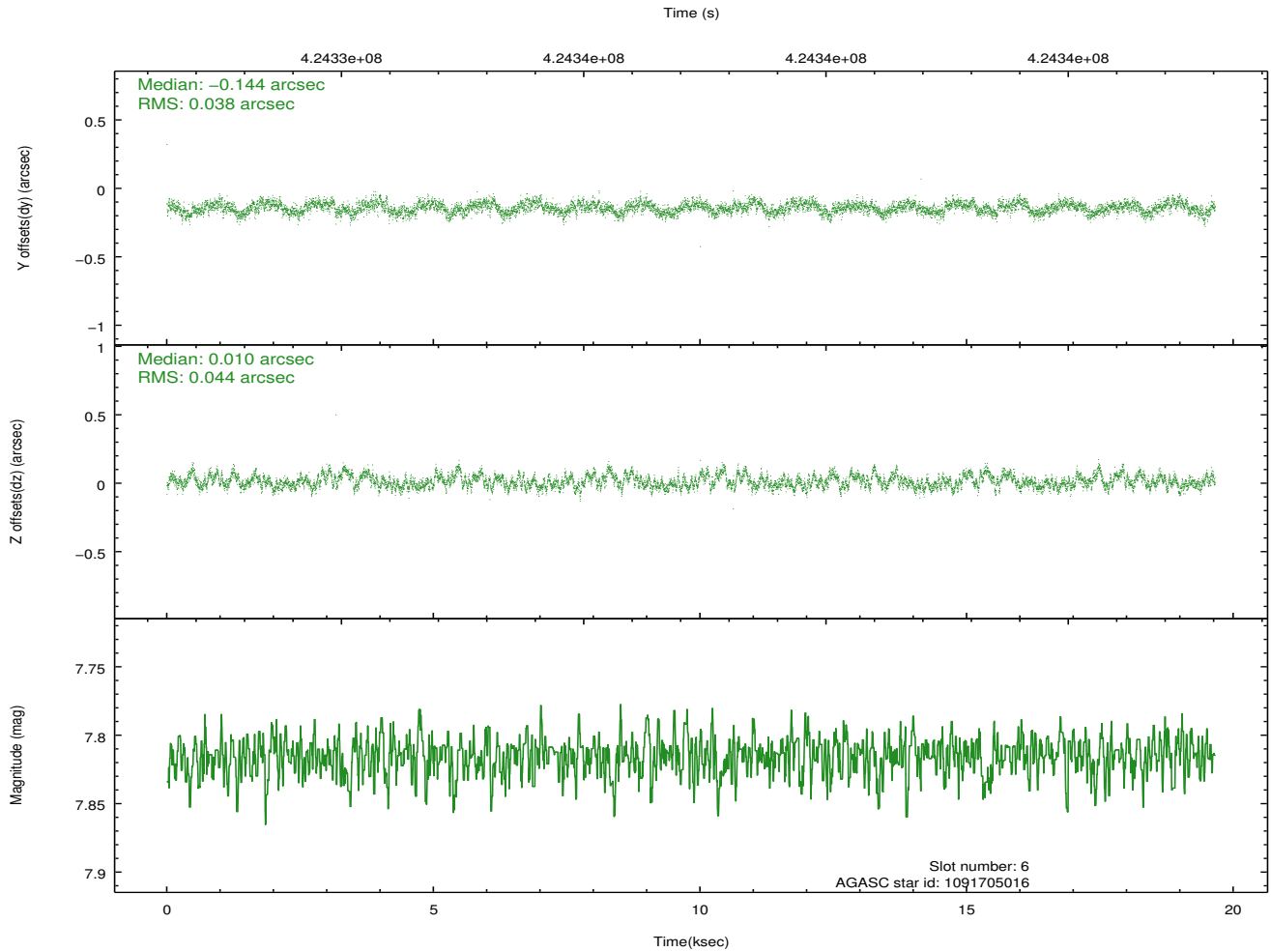
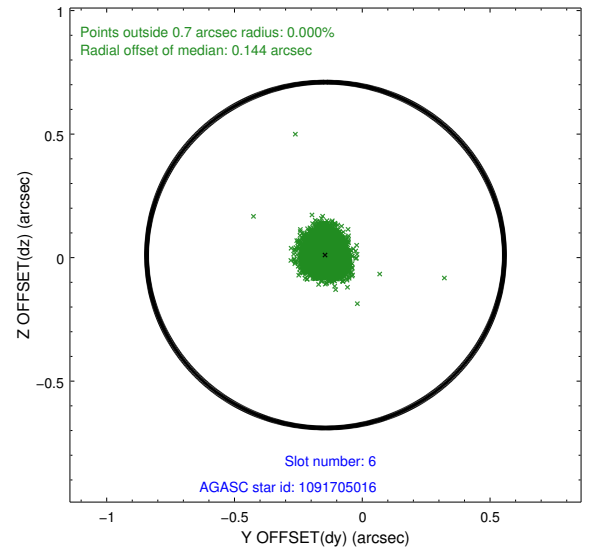
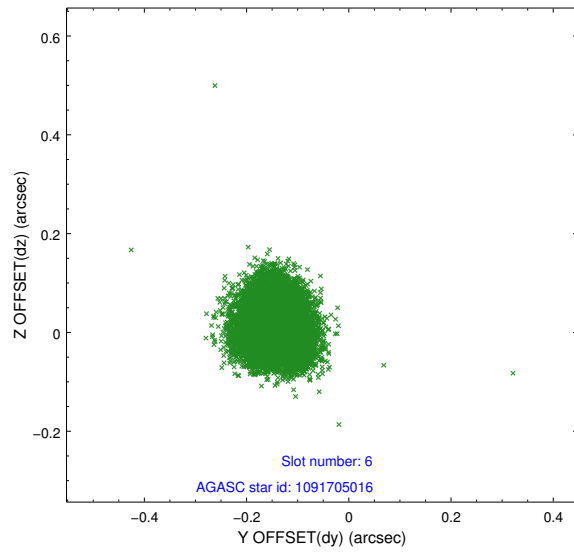




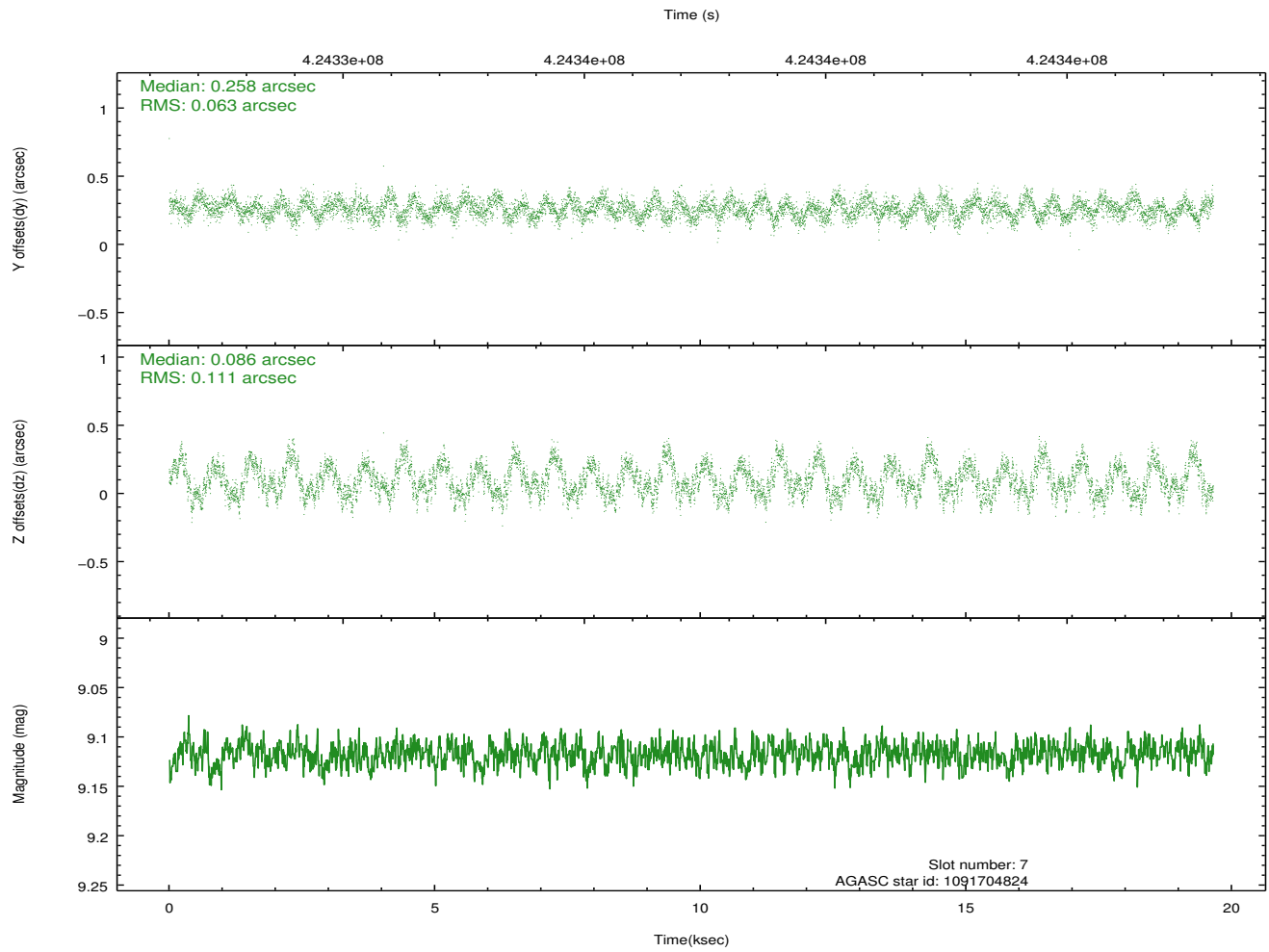
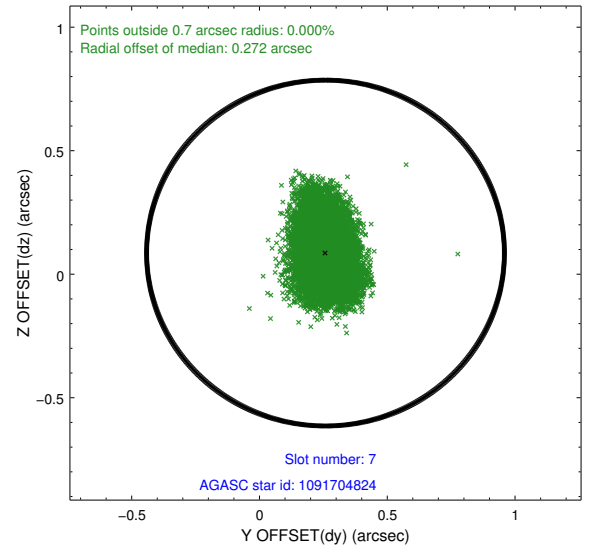
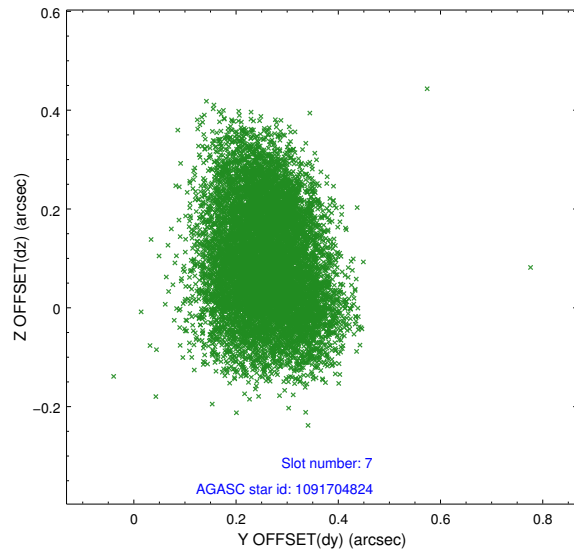
### 2.4.3 Slot 5



## 2.4.4 Slot 6

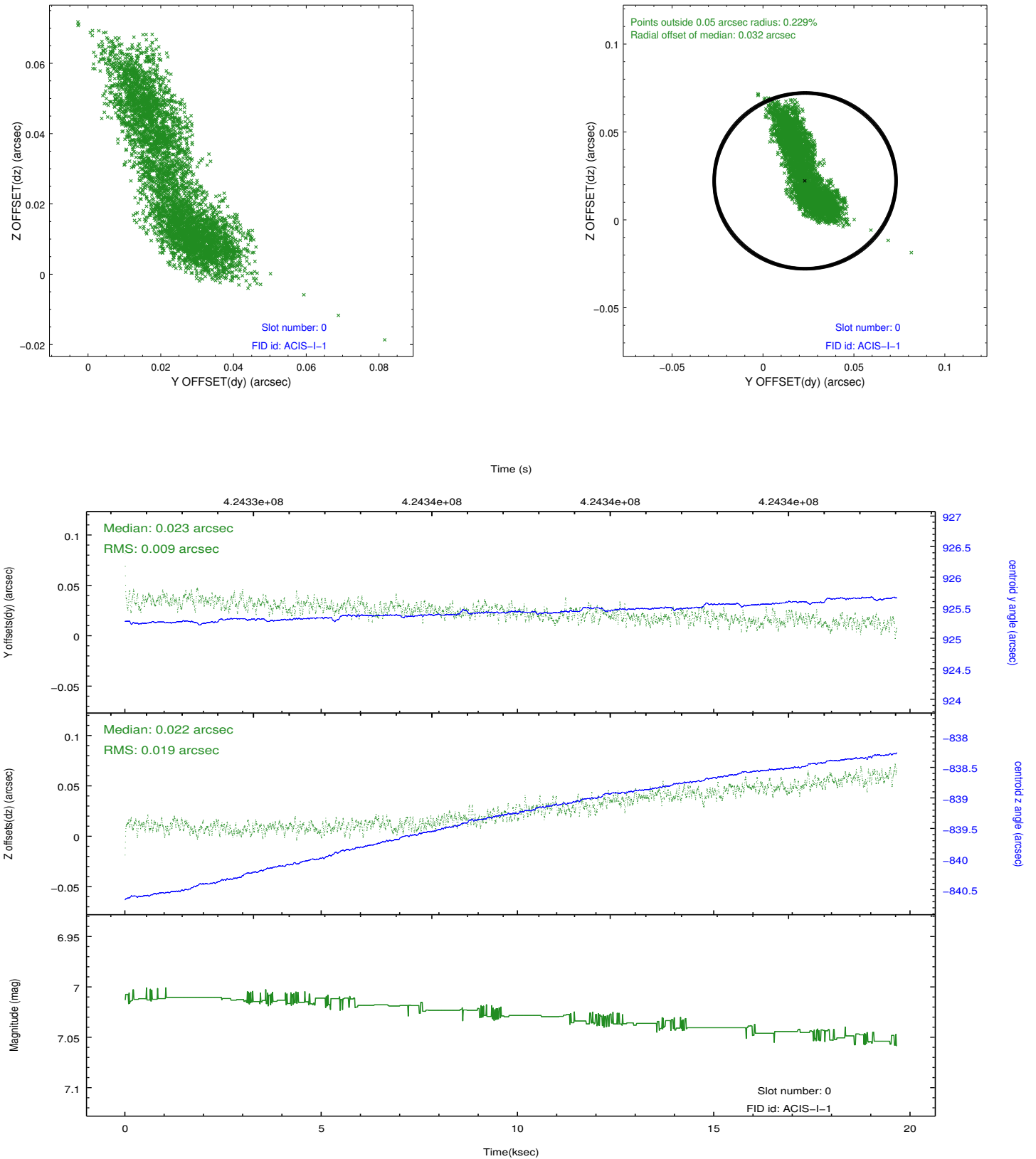


## 2.4.5 Slot 7

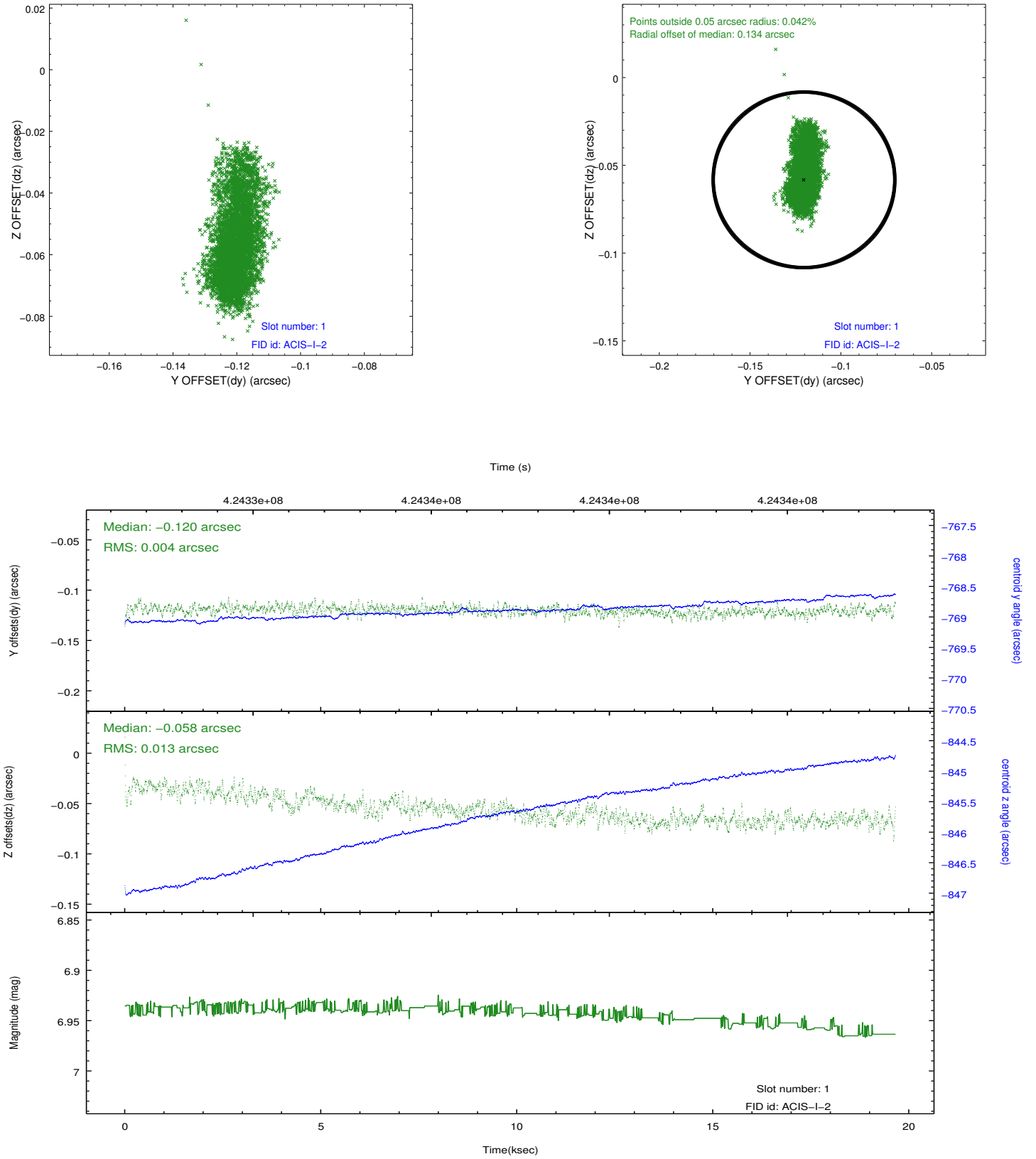


## 2.5 FID Slots

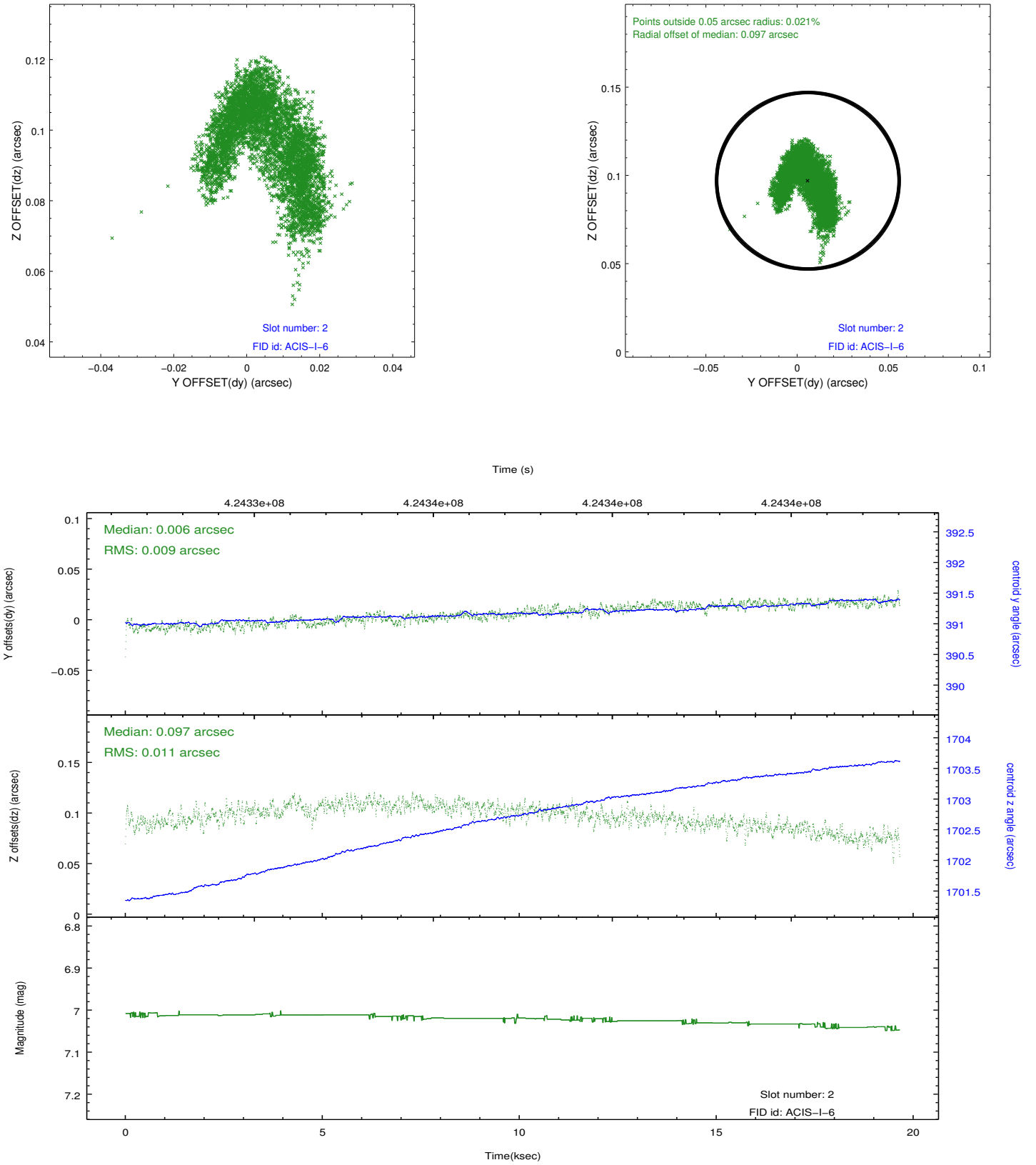
### 2.5.1 Slot 0



## 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)	2012.02.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.555098420084

### A.2 Comments

Joint Proposal: NOAO