

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22202 - L2 Version 1
Chandra X-Ray Center

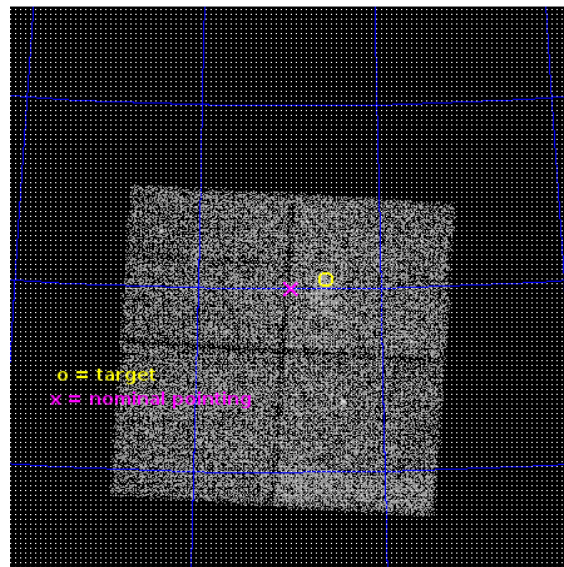
L2 Processing Date : May 5 2019

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1 Front

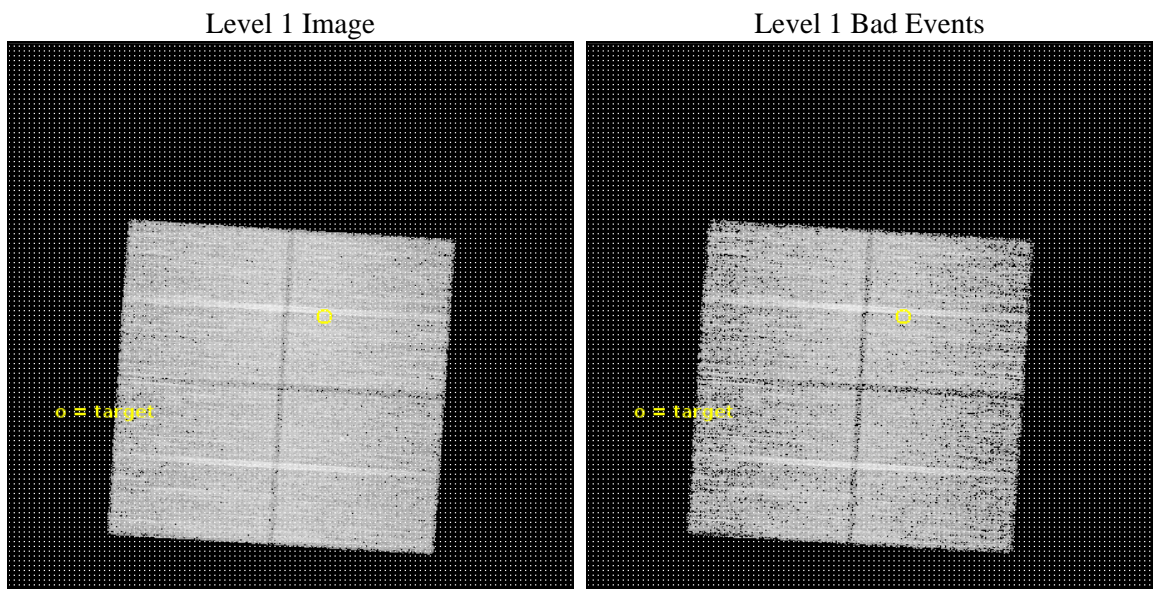
seq_num	801796	Sequence number
obs_id	22202	Observation id
title	Clusters in Formation - The Case of 3C61.1 and A Luminous AGN in a Merging Cluster	Proposal title
observer	Ralph Kraft	Principal investigator
object	X-CLASS 1835 (3C61.1)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.75	Observer's specified target RA [deg]
dec_targ	86.341667	Observer's specified target Dec [deg]
ra_nom	36.218369531067	Nominal RA [deg]
dec_nom	86.333615244714	Nominal Dec [deg]
roll_nom	3.7413155984805	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18076.100139141	Sum of GTIs [s]
livetime	17839.922583392	Livetime [s]
ontime0	18076.100139141	Sum of GTIs [s]
ontime1	18076.100139141	Sum of GTIs [s]
ontime2	18076.100139141	Sum of GTIs [s]
ontime3	18076.100139141	Sum of GTIs [s]
l2events	54215	Number of level 2 events



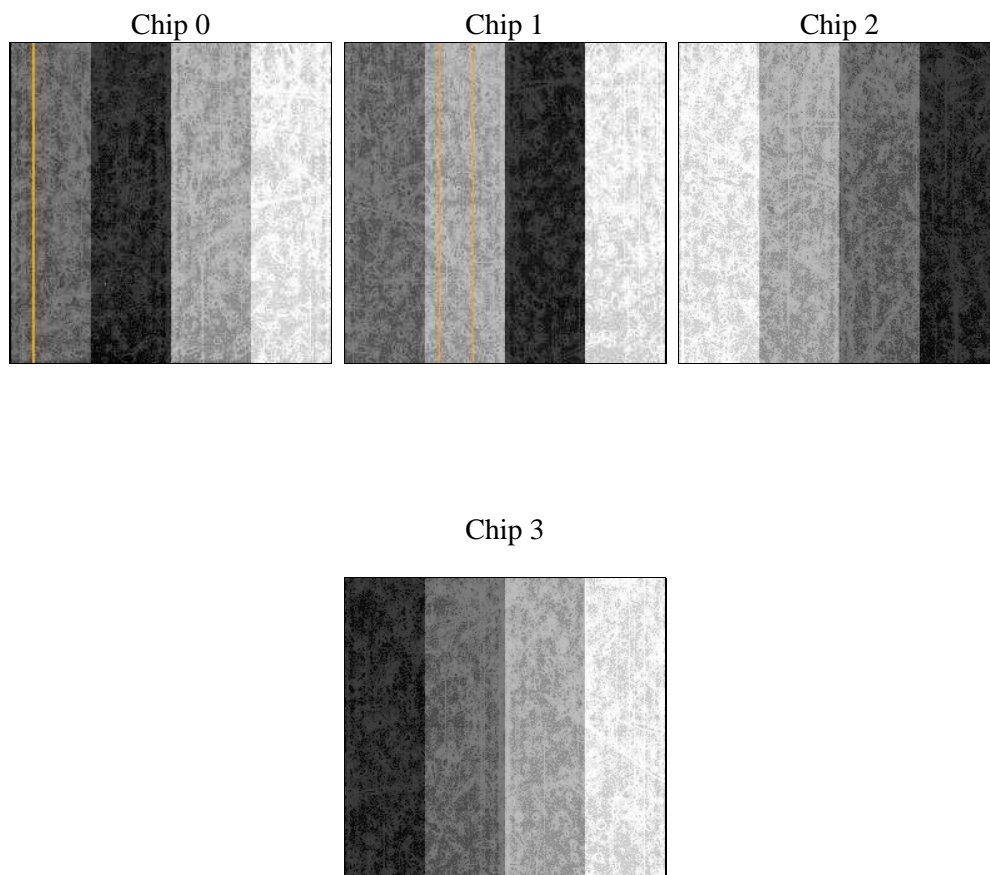
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	18076.100139141	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	18076.100139141	Sum of GTIs [s]
date	2019-05-05T06:43:03	Date and time of file creation	ontime1	18076.100139141	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18076.100139141	Sum of GTIs [s]
			ontime3	18076.100139141	Sum of GTIs [s]
			l1events	522237	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	125746	126110	135342	135039
rejected events	110027	108572	120254	118919
rejected %	87%	86%	88%	88%

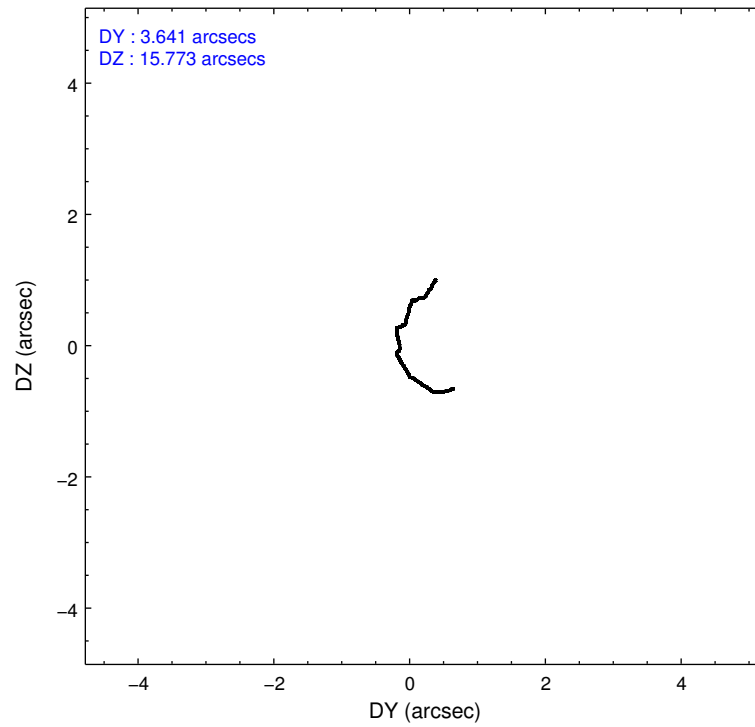
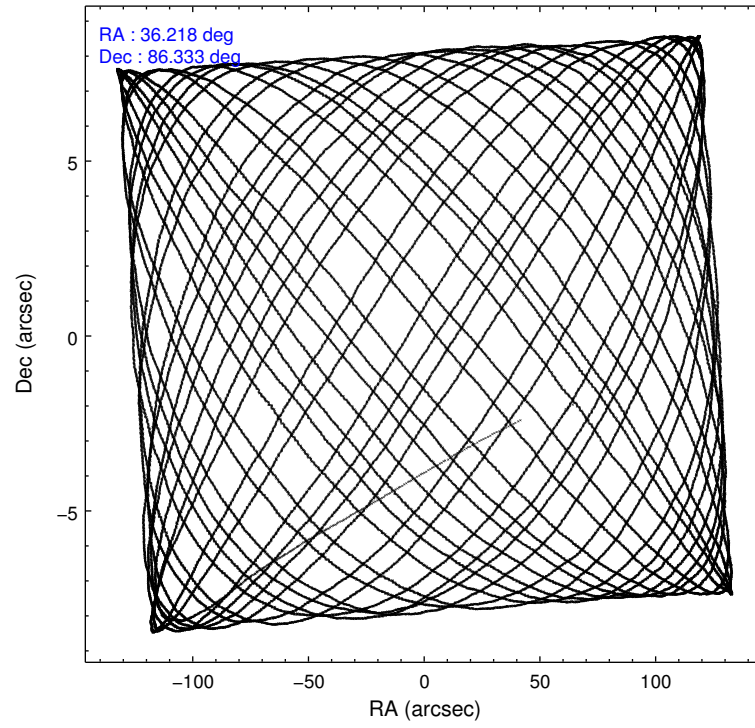
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5444	5981	5395	6434
	4%	4%	3%	4%
grade 1 events	73	71	75	75
	0%	0%	0%	0%
grade 2 events	3974	4640	3729	3398
	3%	3%	2%	2%
grade 3 events	1590	1547	1510	1539
	1%	1%	1%	1%
grade 4 events	1505	1569	1490	1564
	1%	1%	1%	1%
grade 5 events	5874	6028	5557	6491
	4%	4%	4%	4%
grade 6 events	3211	3808	2971	3190
	2%	3%	2%	2%
grade 7 events	104075	102466	114615	112348
	82%	81%	84%	83%

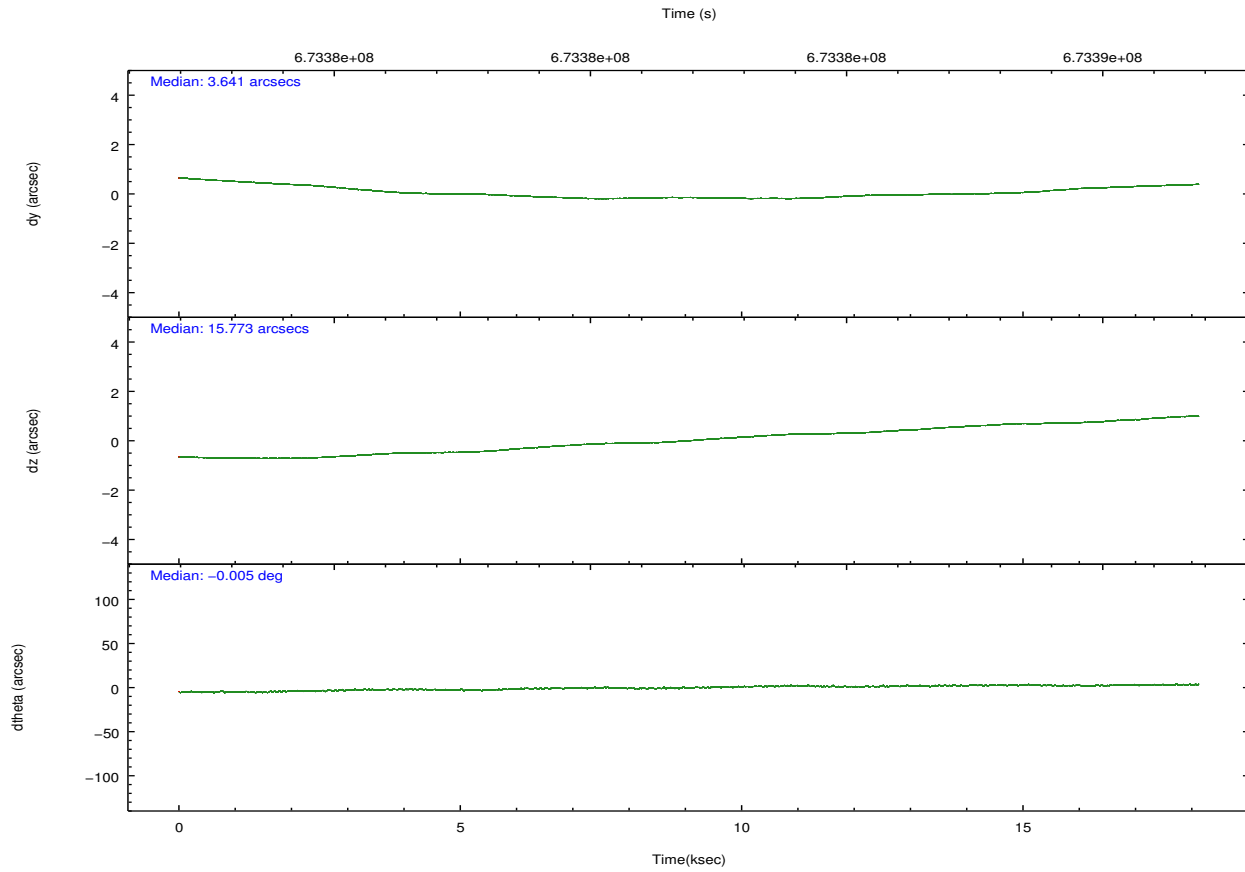
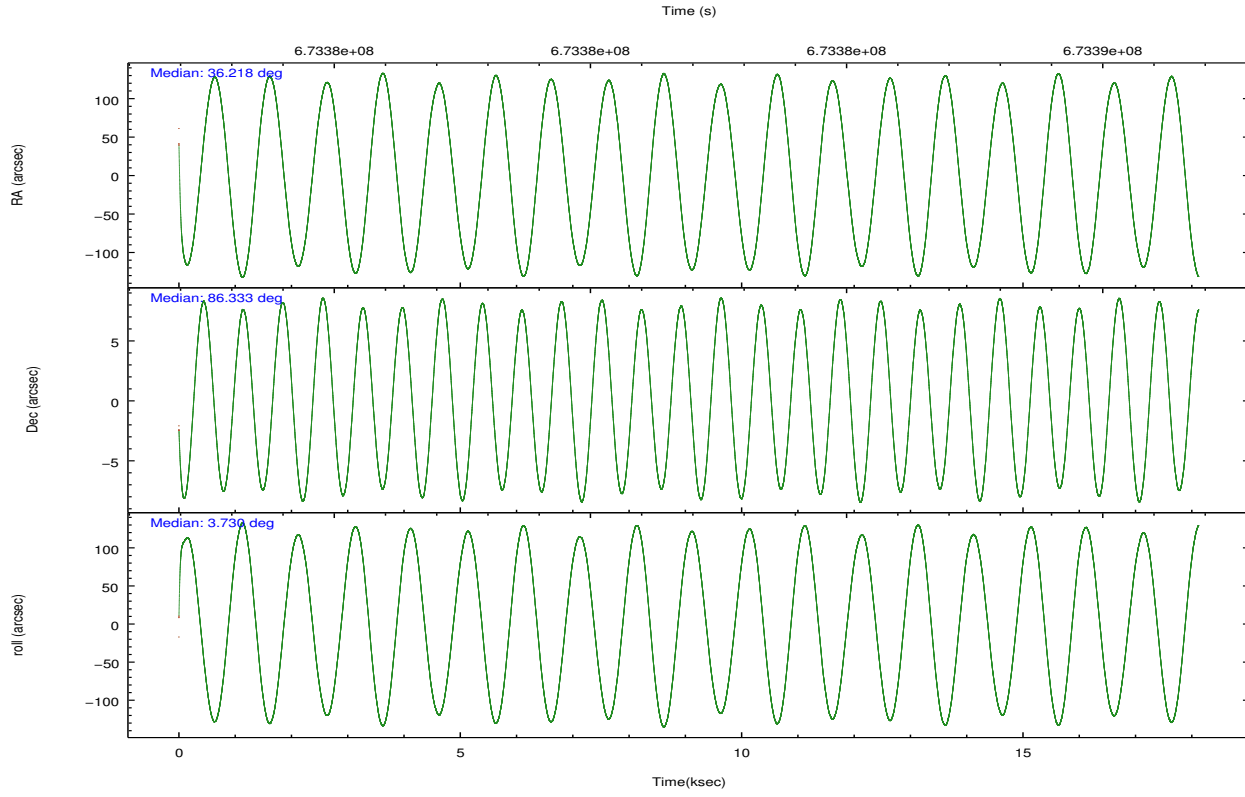
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	35.862050	36.21836953106725
[deg] Pointing Dec	86.318222	86.33361524471425
[deg] Pointing Roll	3.888176	3.741315598480472
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.842463	-225.8433433320239
[mm] SIM translation stage offset	-7.75	-7.749109670905796
[s] Observation start time (MET)	673372988.184000	673371757.02593
Observation start date	2019-05-04T16:01:59	2019-05-04T15:42:37
[s] Observation end time (MET)	673390988.184000	673391975.6646399
Observation end date	2019-05-04T21:01:59	2019-05-04T21:19:35
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	N
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



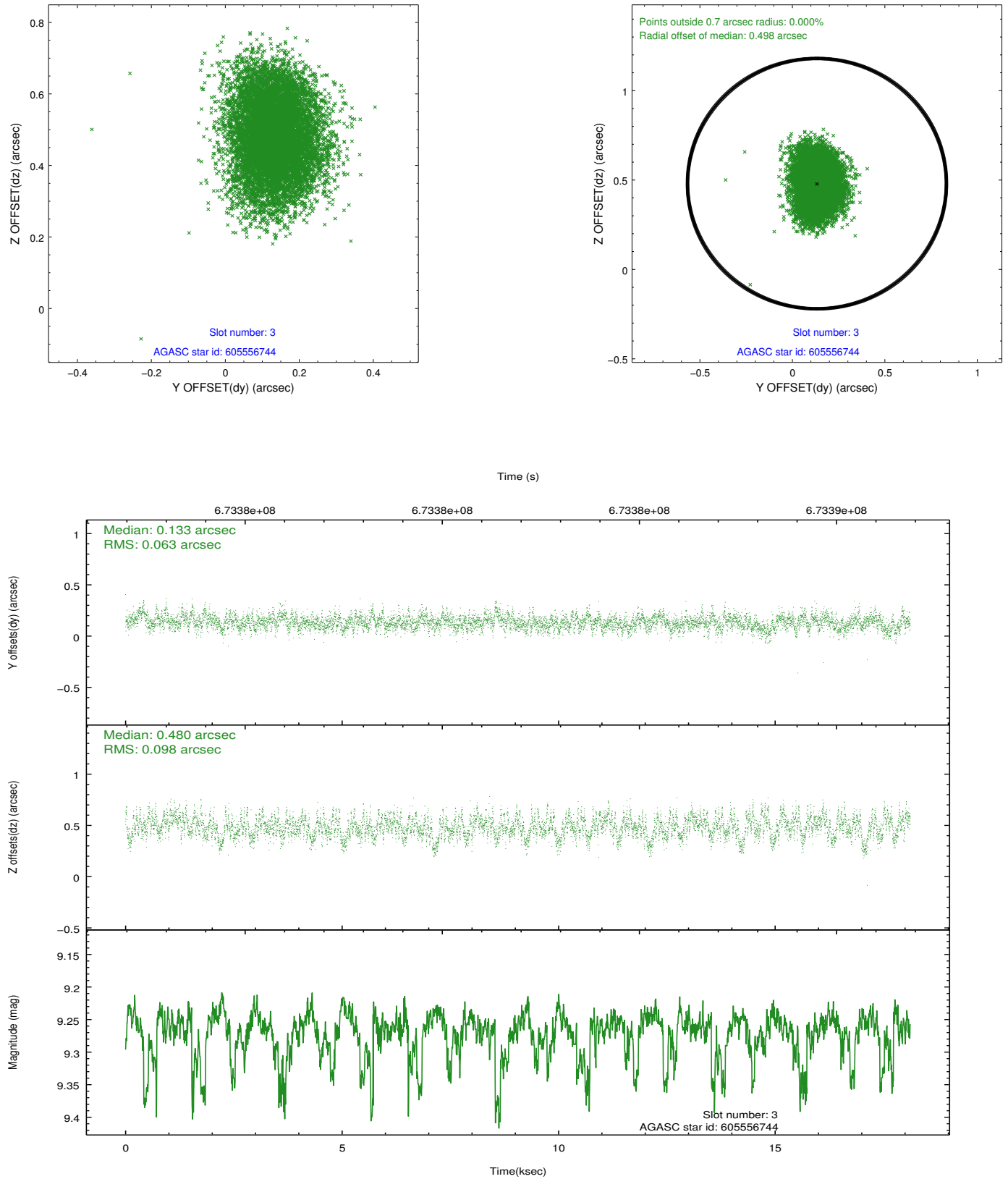


Slot Statistics

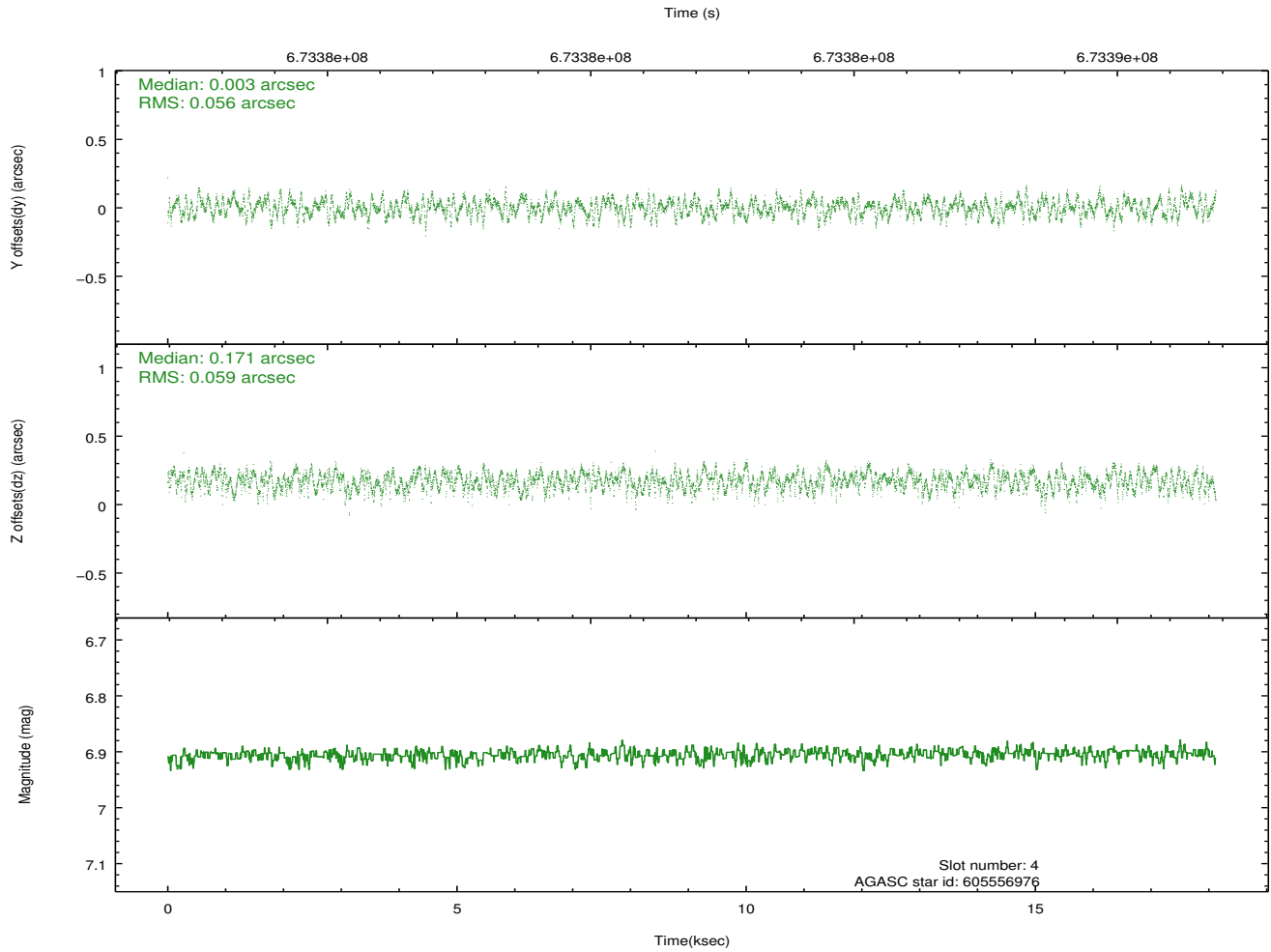
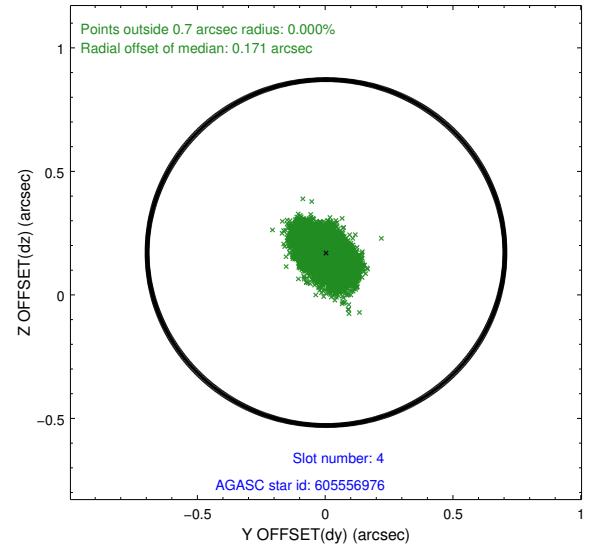
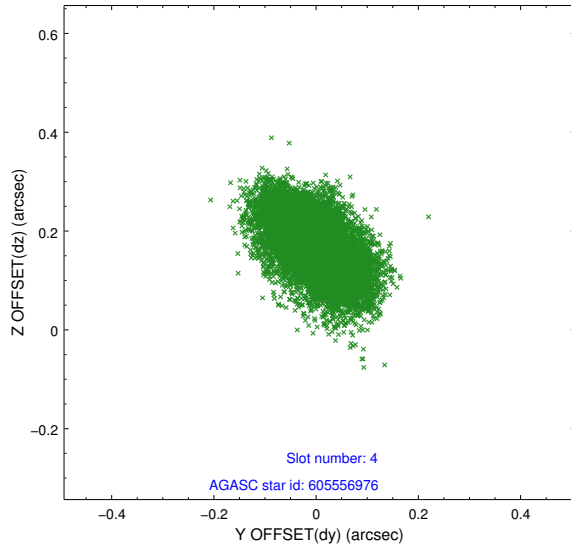
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.09	4420	1.000	0.185	-0.221	0.021	0.068	0.000000	0.000000	936.15	-998
1	FID		ACIS-I-5	7.08	4421	1.000	-0.461	0.088	0.016	0.033	0.000000	0.000000	-1812.58	898
2	FID		ACIS-I-6	7.11	4421	1.000	0.182	0.200	0.018	0.045	0.000000	0.000000	401.32	1543
3	GUIDE	used	605556744	9.27	8821	1.000	0.133	0.480	0.124	0.204	30.576614	85.741708	-1542.04	-1910
4	GUIDE	used	605556976	6.91	8839	1.000	0.003	0.171	0.088	0.142	34.748698	85.736157	-438.72	-2065
5	GUIDE	used	605559440	8.22	8835	1.000	-0.003	-0.029	0.126	0.218	41.642951	85.799283	1398.12	-1890
6	GUIDE	used	606079672	8.64	8841	1.000	-0.019	-0.280	0.089	0.141	35.254825	86.761950	-14.76	1603
7	GUIDE	used	606080224	8.33	8836	1.000	-0.123	-0.343	0.133	0.235	30.895322	86.931799	-800.56	2309

2.4 Star Slots

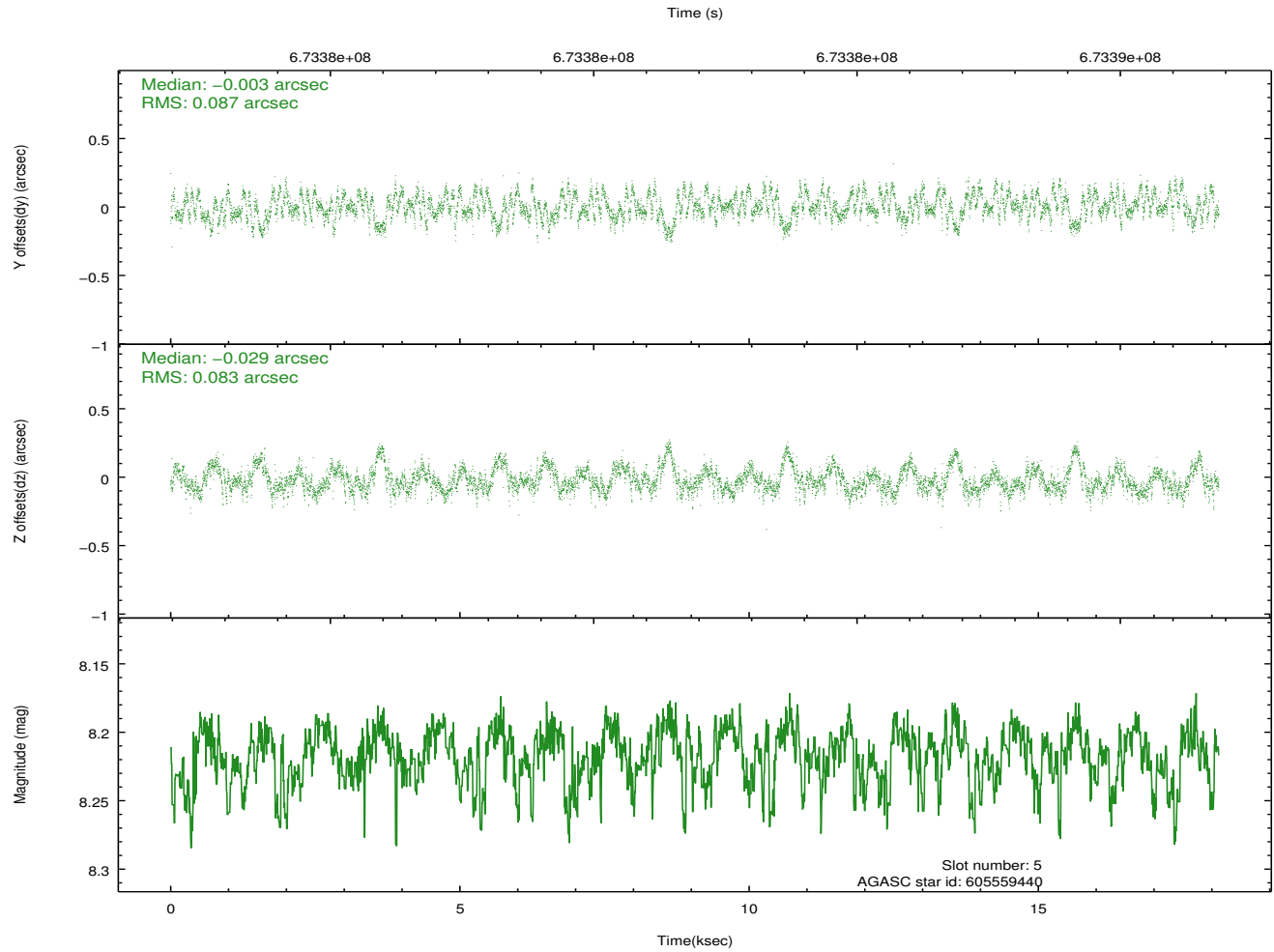
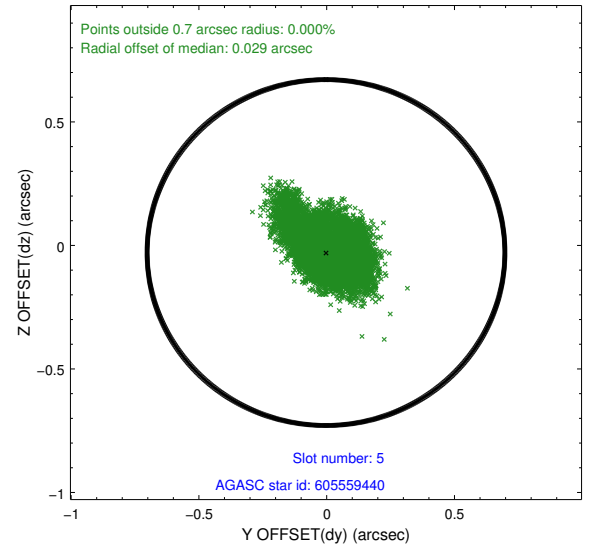
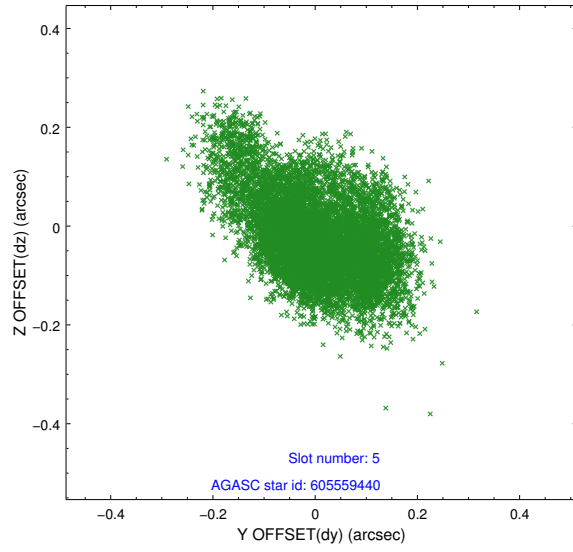
2.4.1 Slot 3



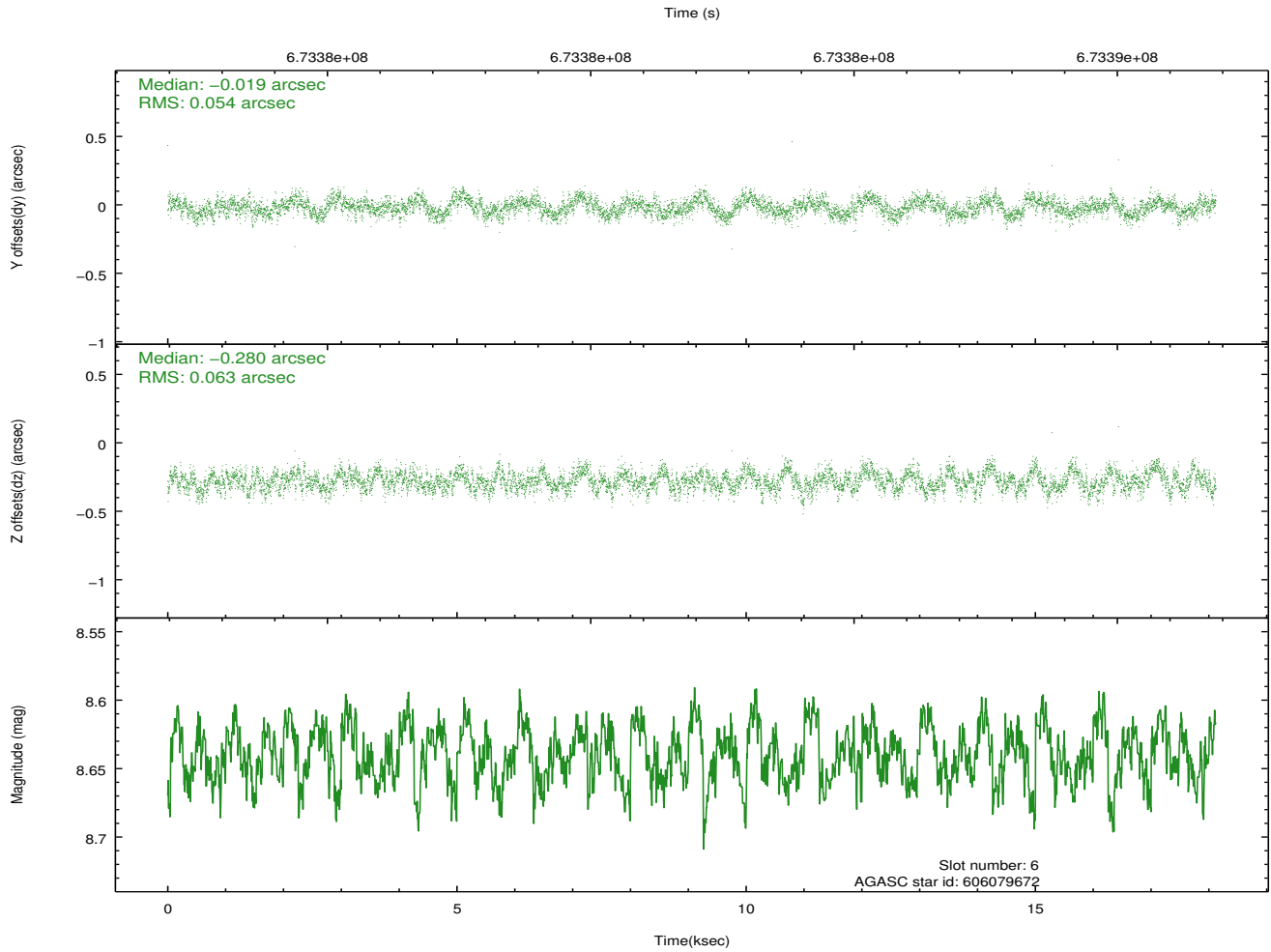
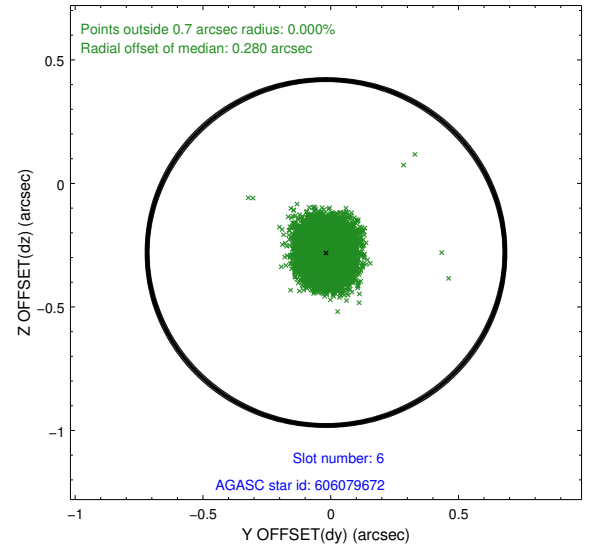
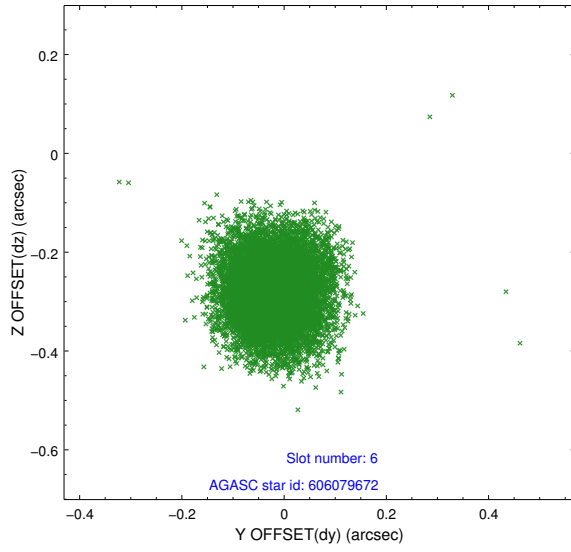
2.4.2 Slot 4



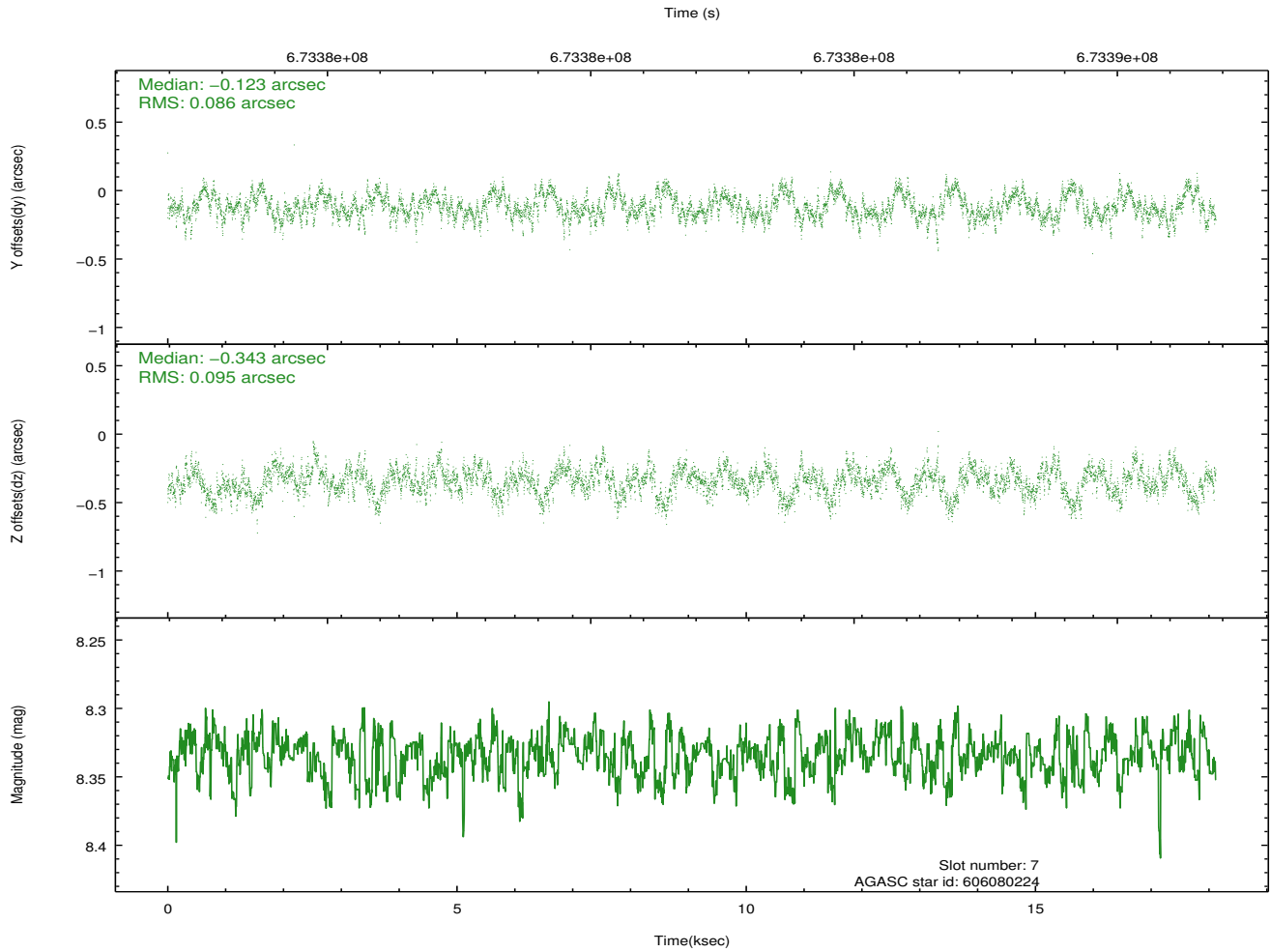
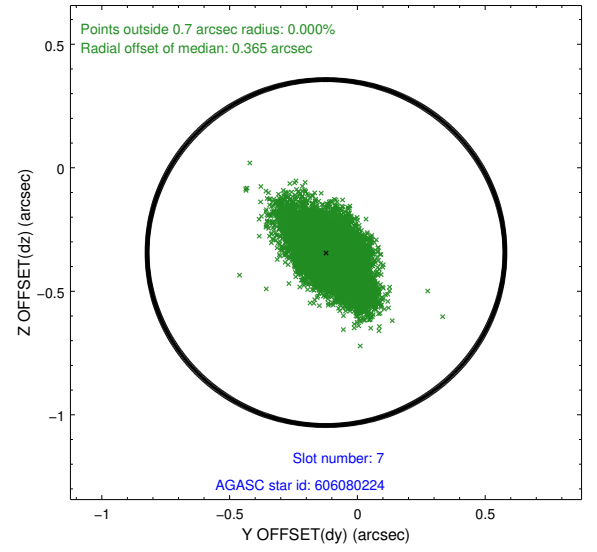
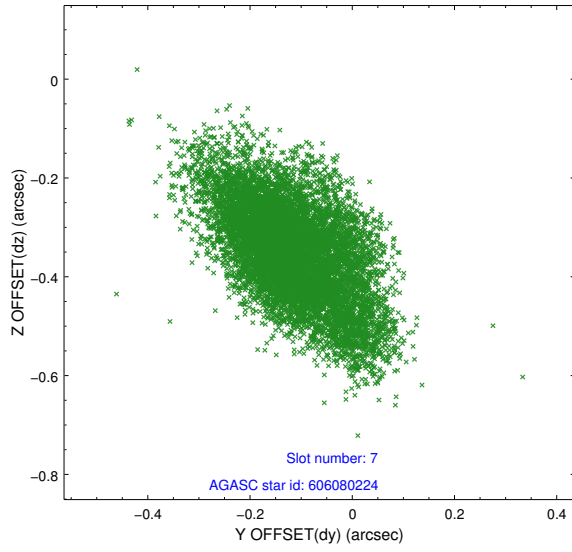
2.4.3 Slot 5



2.4.4 Slot 6

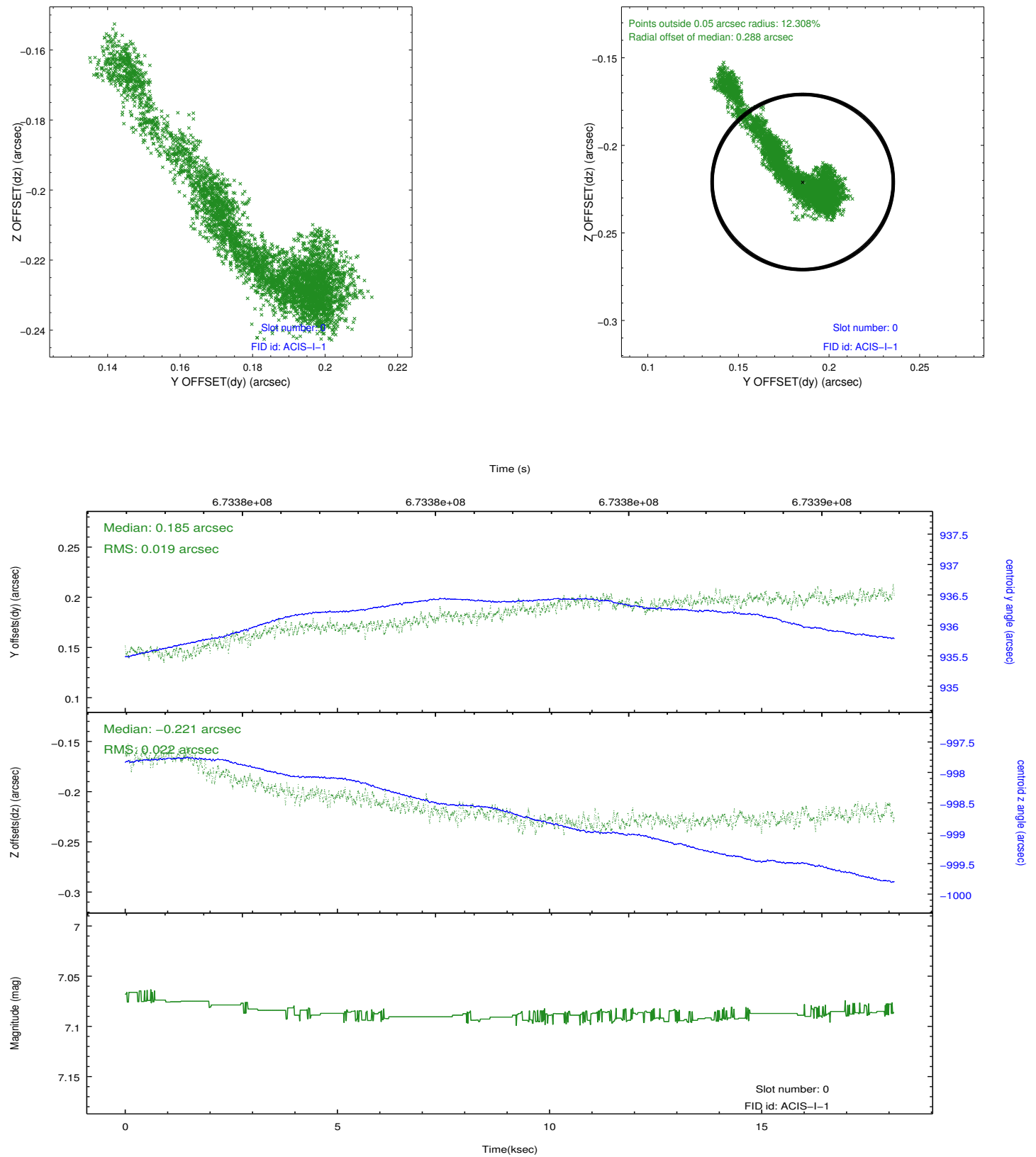


2.4.5 Slot 7

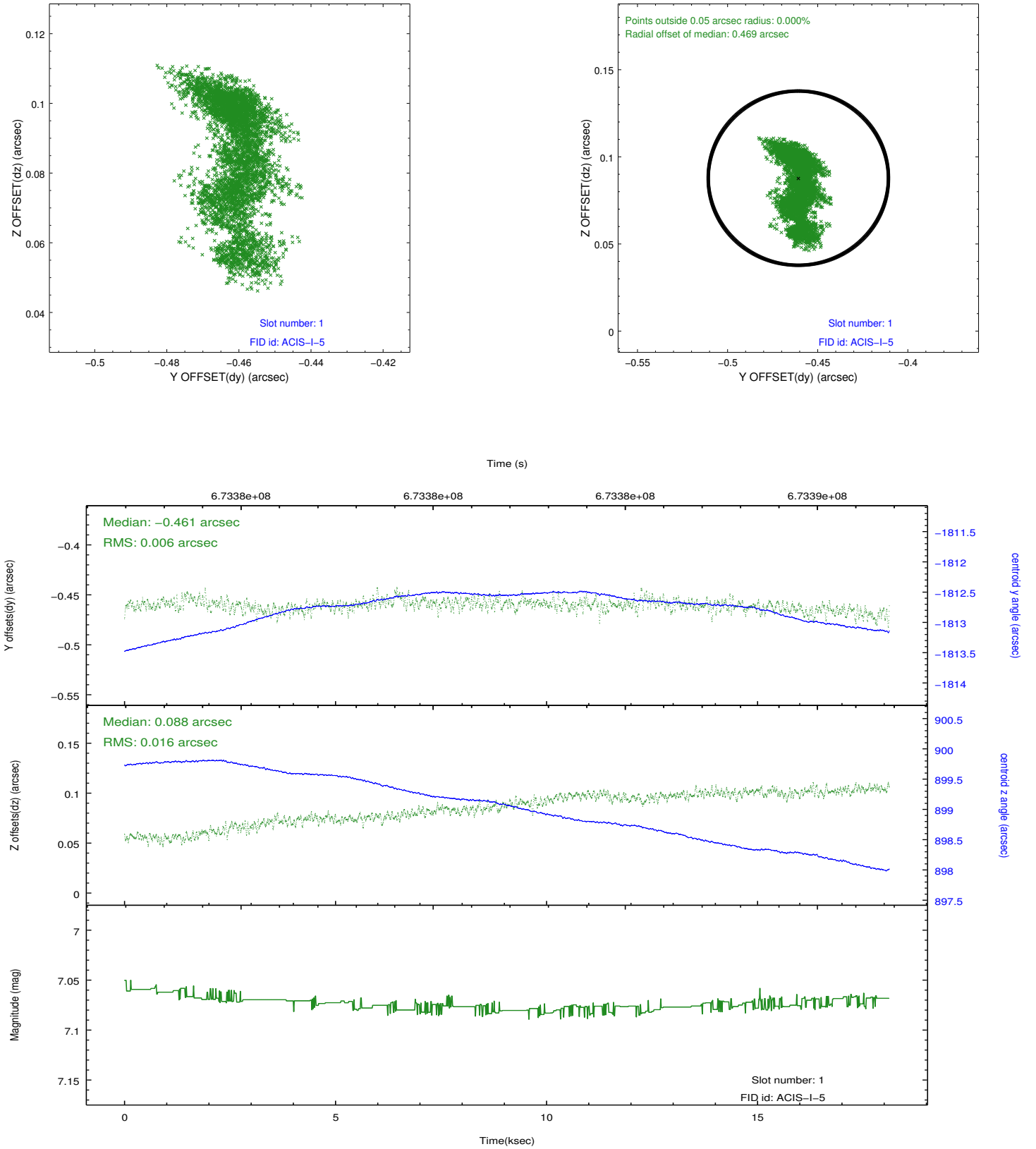


2.5 FID Slots

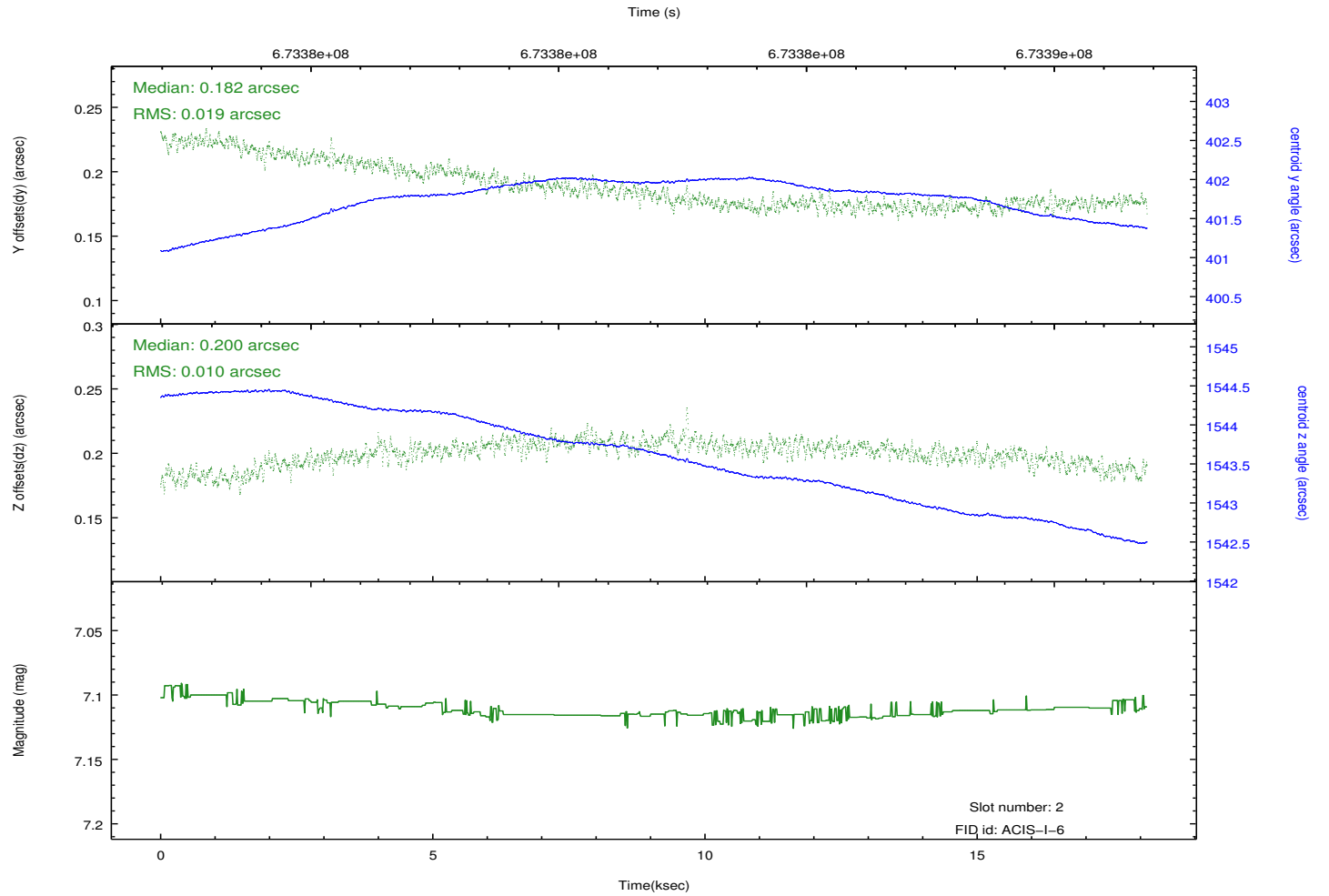
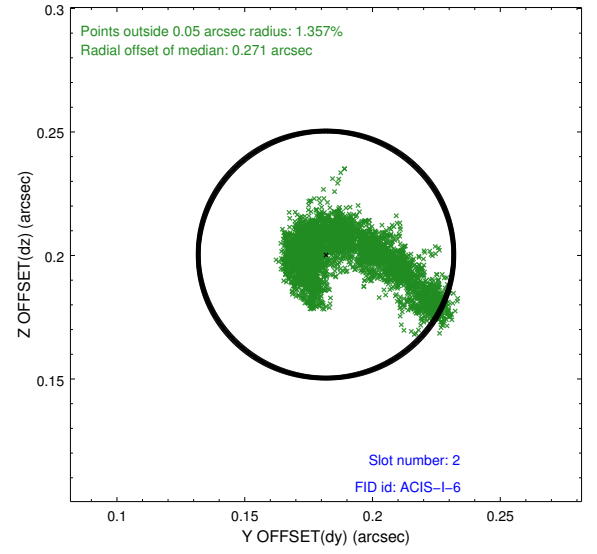
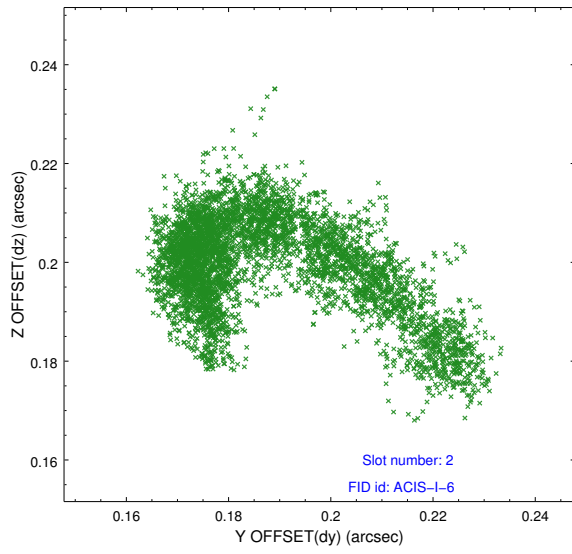
2.5.1 Slot 0



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)	2019.05.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.076100139141

A.2 Comments

One optional chip was dropped.