

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19592 - L2 Version 1
Chandra X-Ray Center

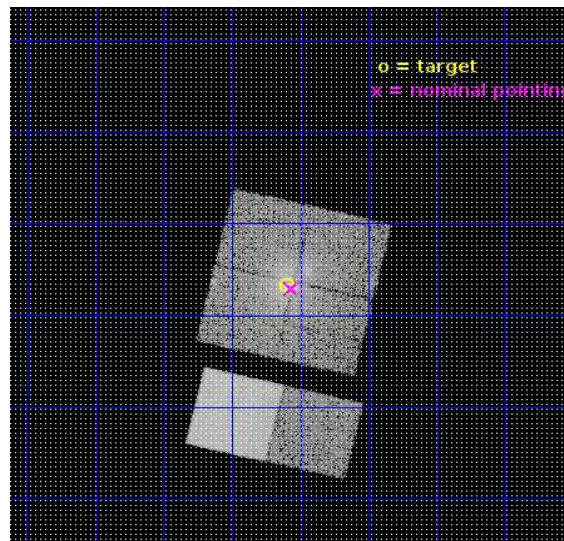
L2 Processing Date : May 31 2017

Contents

1	Front	2
2	OBI	3
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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

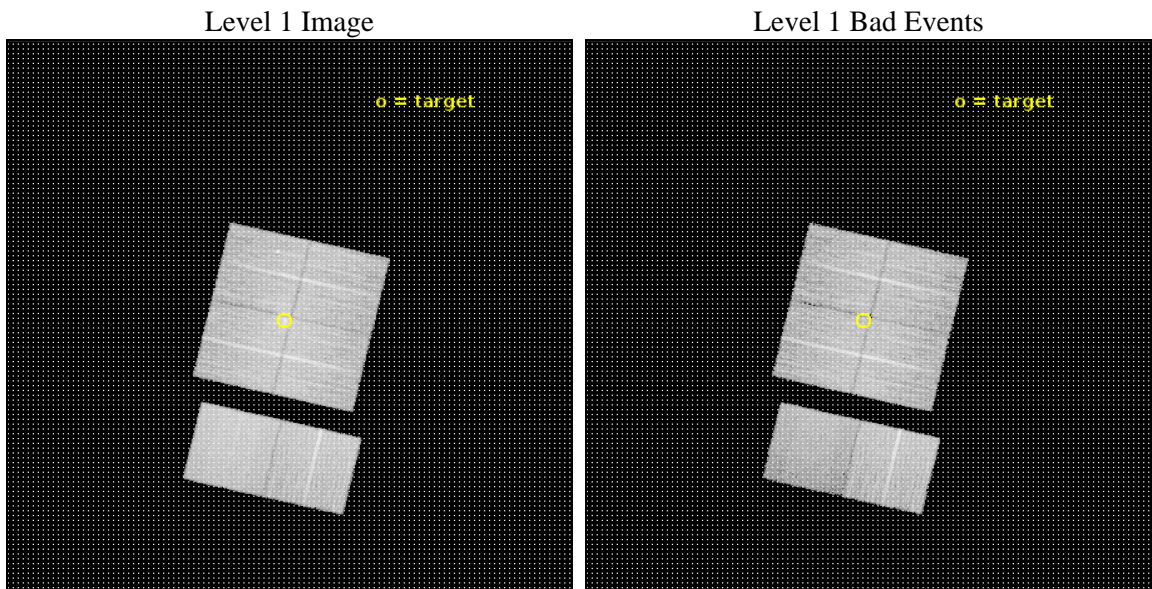
seq_num	801681	Sequence number
obs_id	19592	Observation id
title	Two Clusters with Short Central t_cool but no Signatures of Cooling Gas - Why Hasn't Cooling Commenced?	Proposal title
observer	Michael Hogan	Principal investigator
object	A2151	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.149167	Observer's specified target RA [deg]
dec_targ	17.721472	Observer's specified target Dec [deg]
ra_nom	241.14129115821	Nominal RA [deg]
dec_nom	17.715190887396	Nominal Dec [deg]
roll_nom	193.21111483567	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16459.496685505	Sum of GTIs [s]
livetime	16251.076627754	Livetime [s]
ontime0	16456.132515073	Sum of GTIs [s]
ontime1	16459.414605498	Sum of GTIs [s]
ontime2	16459.455645561	Sum of GTIs [s]
ontime3	16459.496685505	Sum of GTIs [s]
ontime6	16459.578765512	Sum of GTIs [s]
ontime7	16459.537725568	Sum of GTIs [s]
l2events	121303	Number of level 2 events



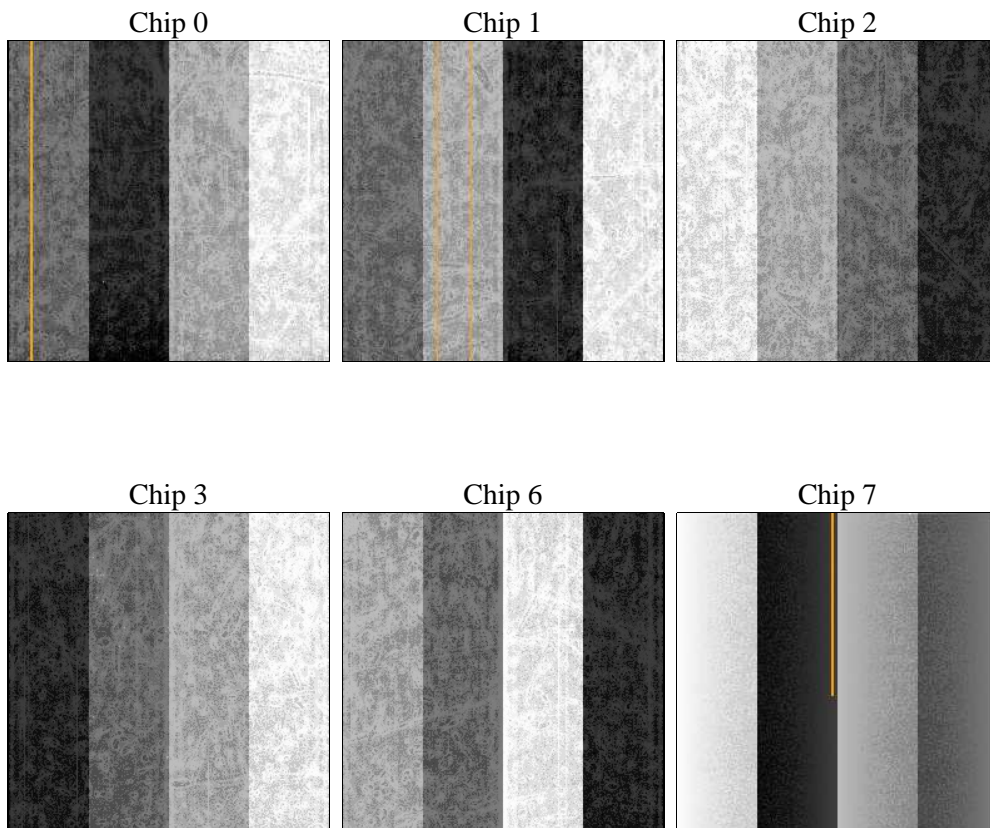
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	16459.496685505	Sum of GTIs [s]
caldsver	4.7.4	 	ontime0	16456.132515073	Sum of GTIs [s]
date	2017-05-31T22:41:56	Date and time of file creation	ontime1	16459.414605498	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	16459.455645561	Sum of GTIs [s]
			ontime3	16459.496685505	Sum of GTIs [s]
			ontime6	16459.578765512	Sum of GTIs [s]
			ontime7	16459.537725568	Sum of GTIs [s]
			l1events	657812	Number of level 1 events

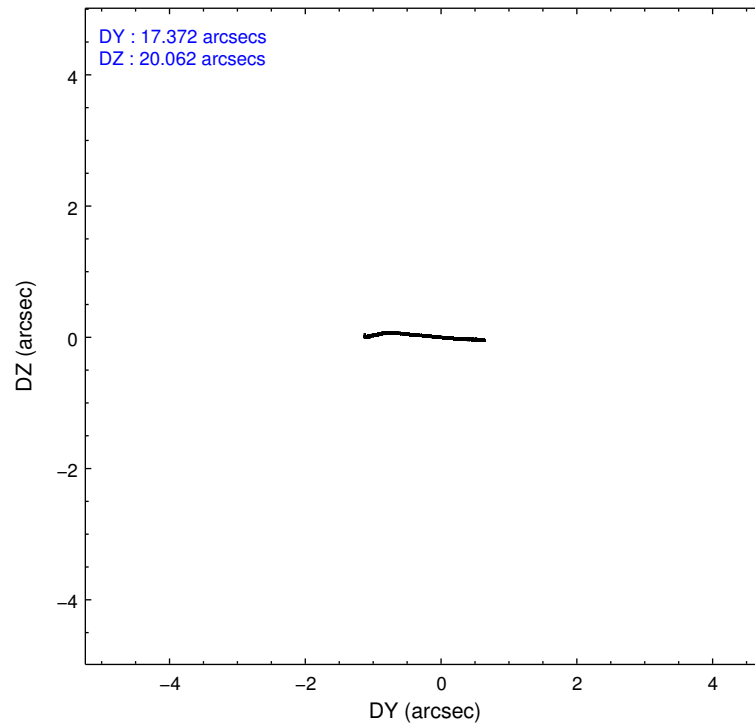
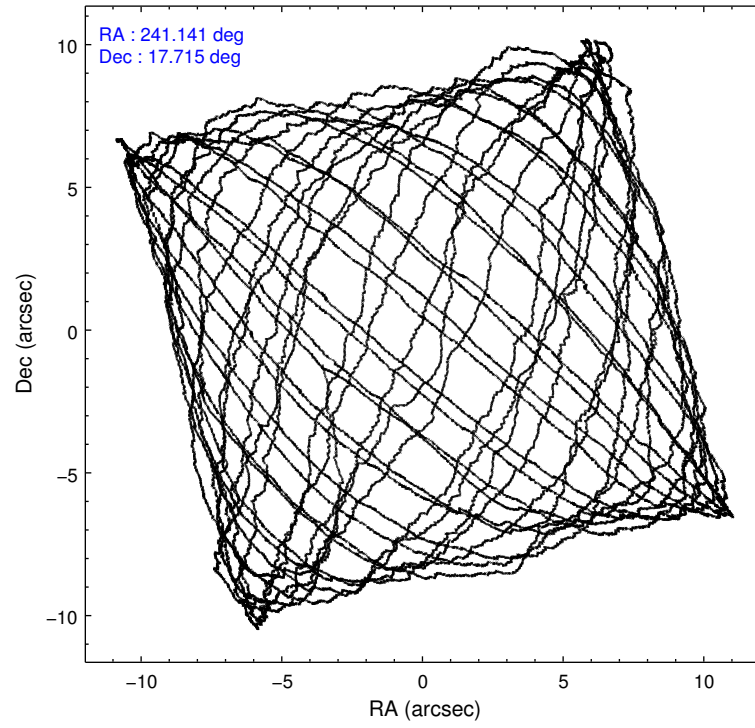
2.1.4 Events

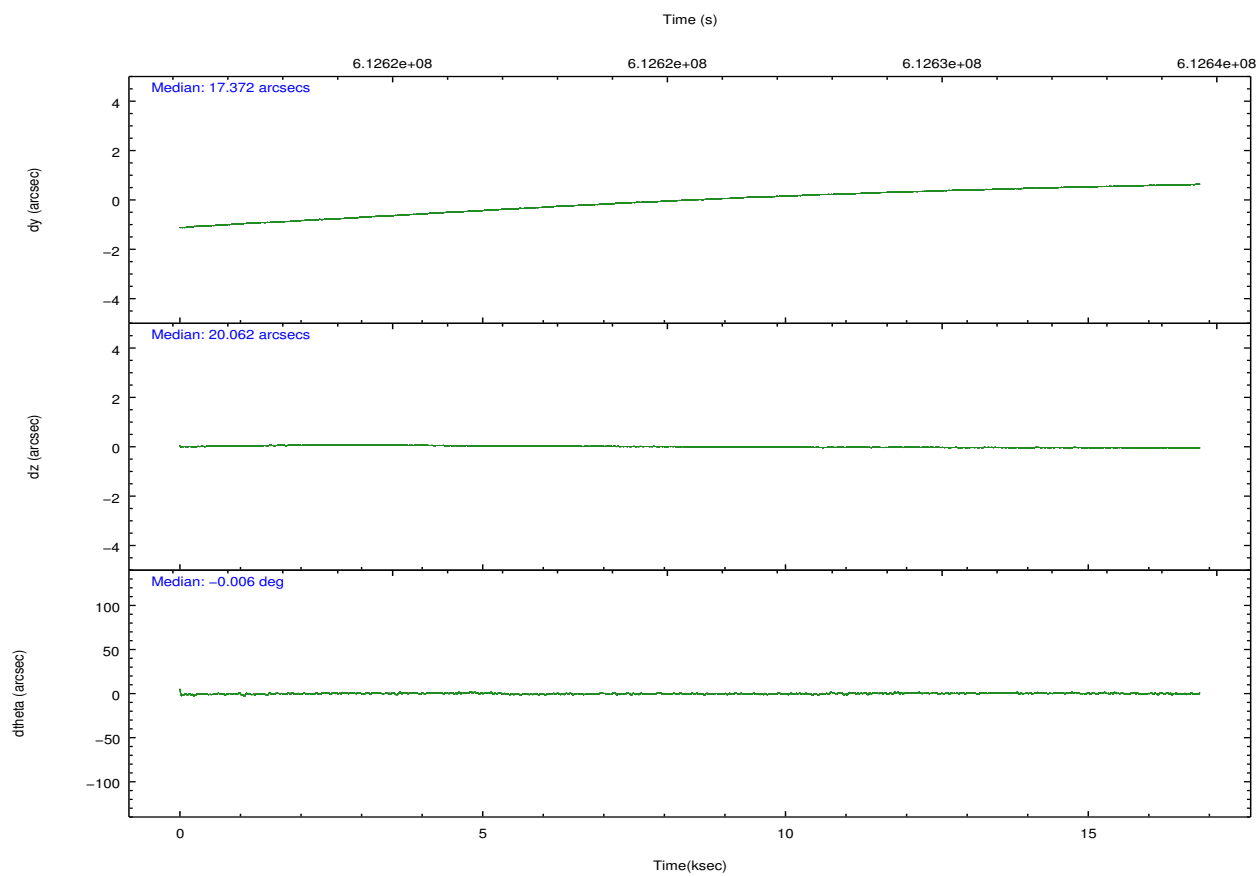
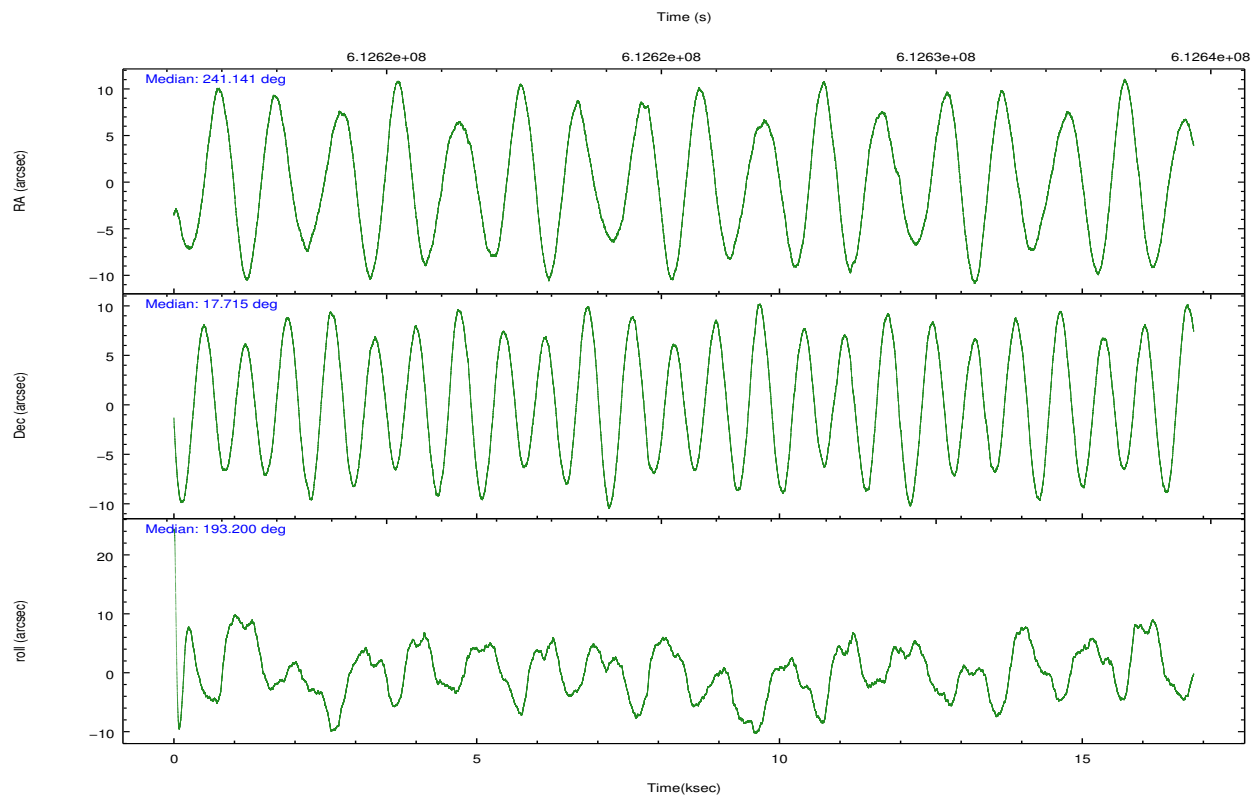
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	101686	101089	112589	110883	111550	120015	grade 0 events	6695	7806	7007	9802	4455	5546
rejected events	86685	84500	97795	92964	99055	62437		6%	7%	6%	8%	3%	4%
rejected %	85%	83%	86%	83%	88%	52%	grade 1 events	82	85	78	83	70	209
								0%	0%	0%	0%	0%	0%
							grade 2 events	3409	3338	3220	3146	2971	12856
								3%	3%	2%	2%	2%	10%
							grade 3 events	1281	1432	1172	1300	1206	4941
								1%	1%	1%	1%	1%	4%
							grade 4 events	1285	1336	1276	1339	1197	4923
								1%	1%	1%	1%	1%	4%
							grade 5 events	3924	4080	3598	4533	4602	12317
								3%	4%	3%	4%	4%	10%
							grade 6 events	2343	2686	2126	2339	2671	29341
								2%	2%	1%	2%	2%	24%
							grade 7 events	82667	80326	94112	88341	94378	49882
								81%	79%	83%	79%	84%	41%

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	241.162340	241.141291158214	CCD I2 on	Y	Y
[deg] Pointing Dec	17.734172	17.715190887396	CCD I3 on	Y	Y
[deg] Pointing Roll	192.995985	193.2111148356749	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	Y	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	612617326.184000	612616281.58014	CCD S5 on	N	N
Observation start date	2017-05-31T11:27:37	2017-05-31T11:11:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	612633826.184000	612635142.60624	On-chip summing requested	N	N
Observation end date	2017-05-31T16:02:37	2017-05-31T16:25:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



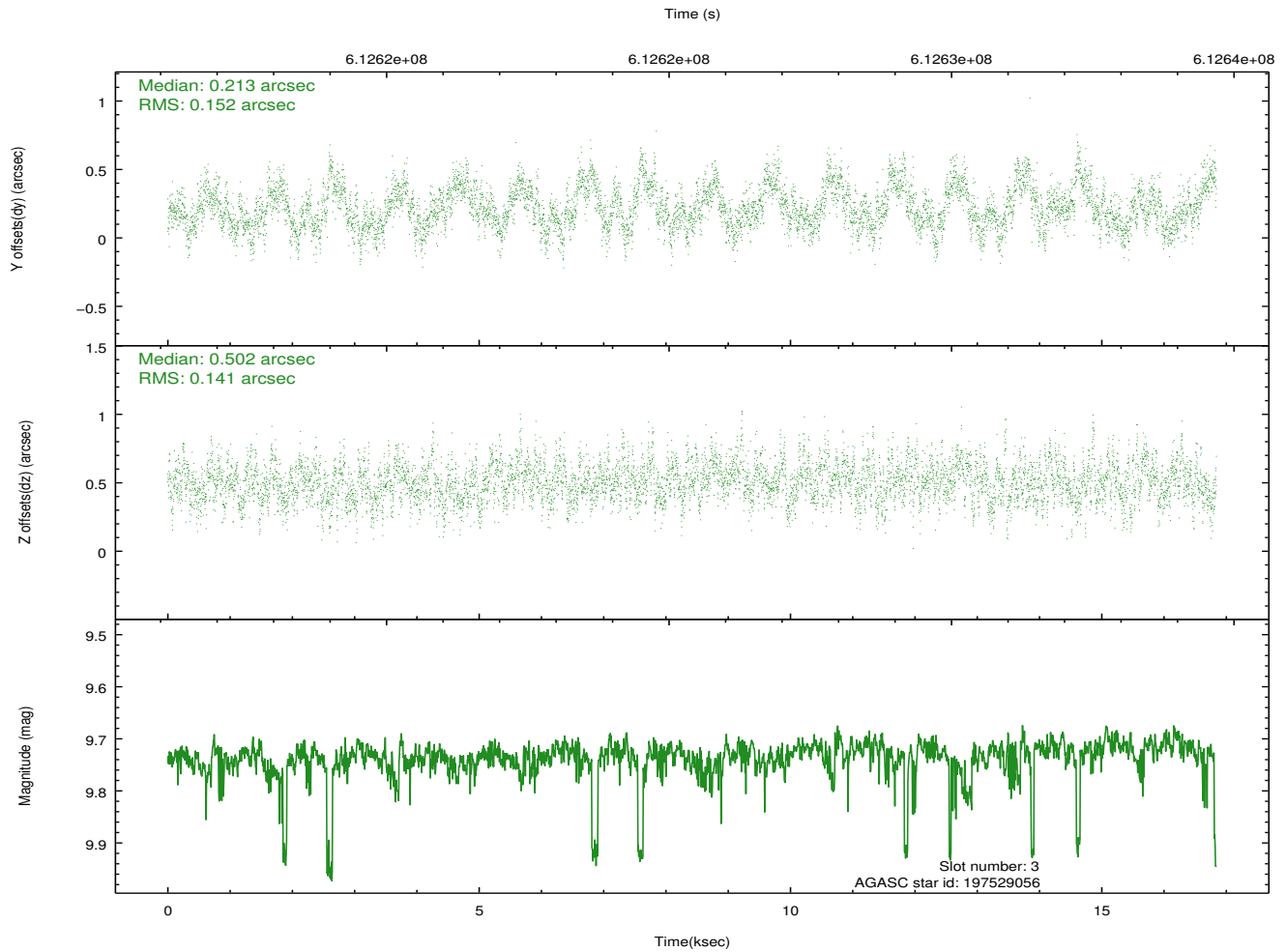
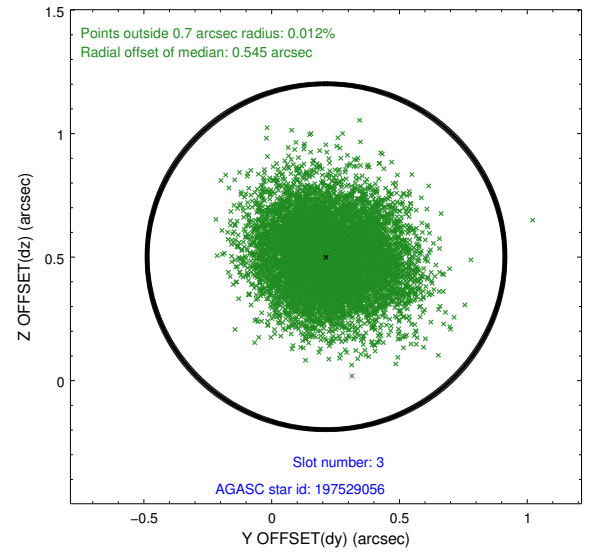
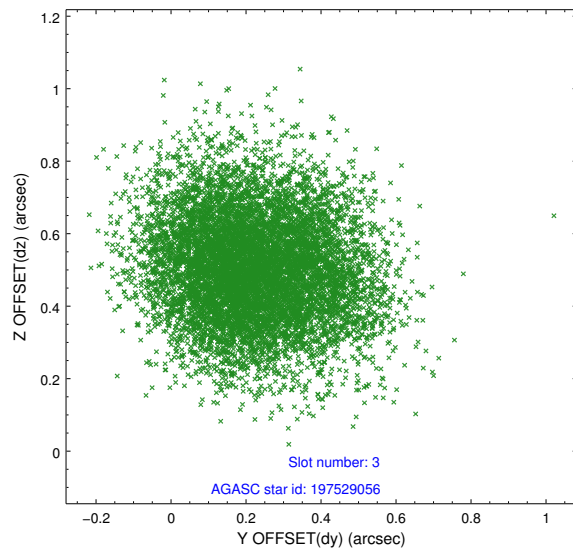


Slot Statistics

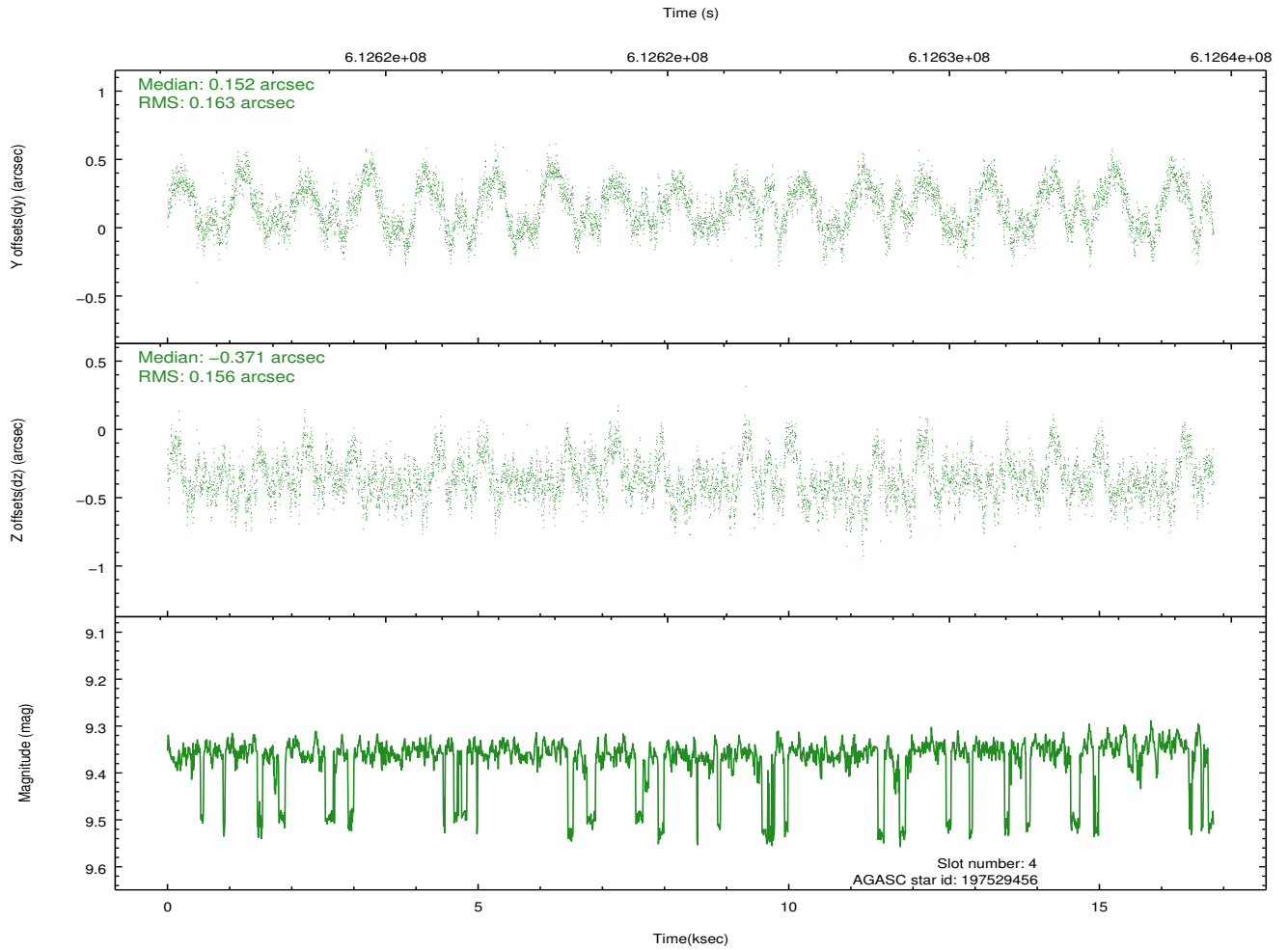
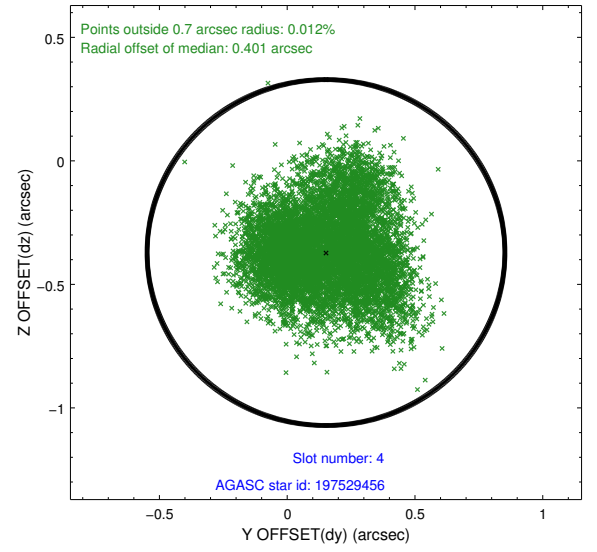
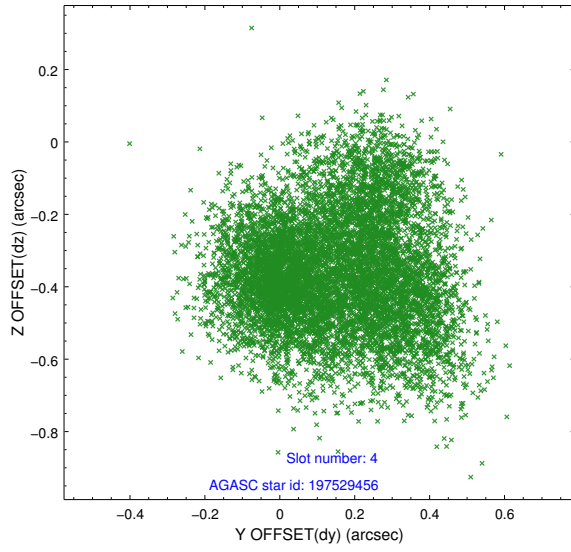
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	4108	-0.077	-0.068	0.015	0.023	0.000000	0.000000	922.11	-843.80
1	FID		ACIS-I-4	7.05	4107	0.473	0.106	0.023	0.061	0.000000	0.000000	2142.69	1056.14
2	FID		ACIS-I-5	7.08	4107	-0.491	0.031	0.018	0.040	0.000000	0.000000	-1826.12	1053.92
3	GUIDE	used	197529056	9.73	8201	0.213	0.502	0.223	0.356	241.695051	18.343610	-2265.86	-1732.84
4	GUIDE	used	197529456	9.36	8200	0.152	-0.371	0.245	0.371	241.685864	18.193984	-2117.04	-1213.66
5	GUIDE	used	197530968	9.63	8201	0.033	0.096	0.224	0.364	241.553279	17.328552	-981.03	1723.56
6	GUIDE	used	197533488	6.54	8216	-0.130	0.160	0.134	0.223	240.957637	17.802774	628.54	-398.63
7	GUIDE	used	197534144	8.95	8209	-0.272	-0.386	0.140	0.232	240.771626	16.972716	1926.79	2367.21

2.4 Star Slots

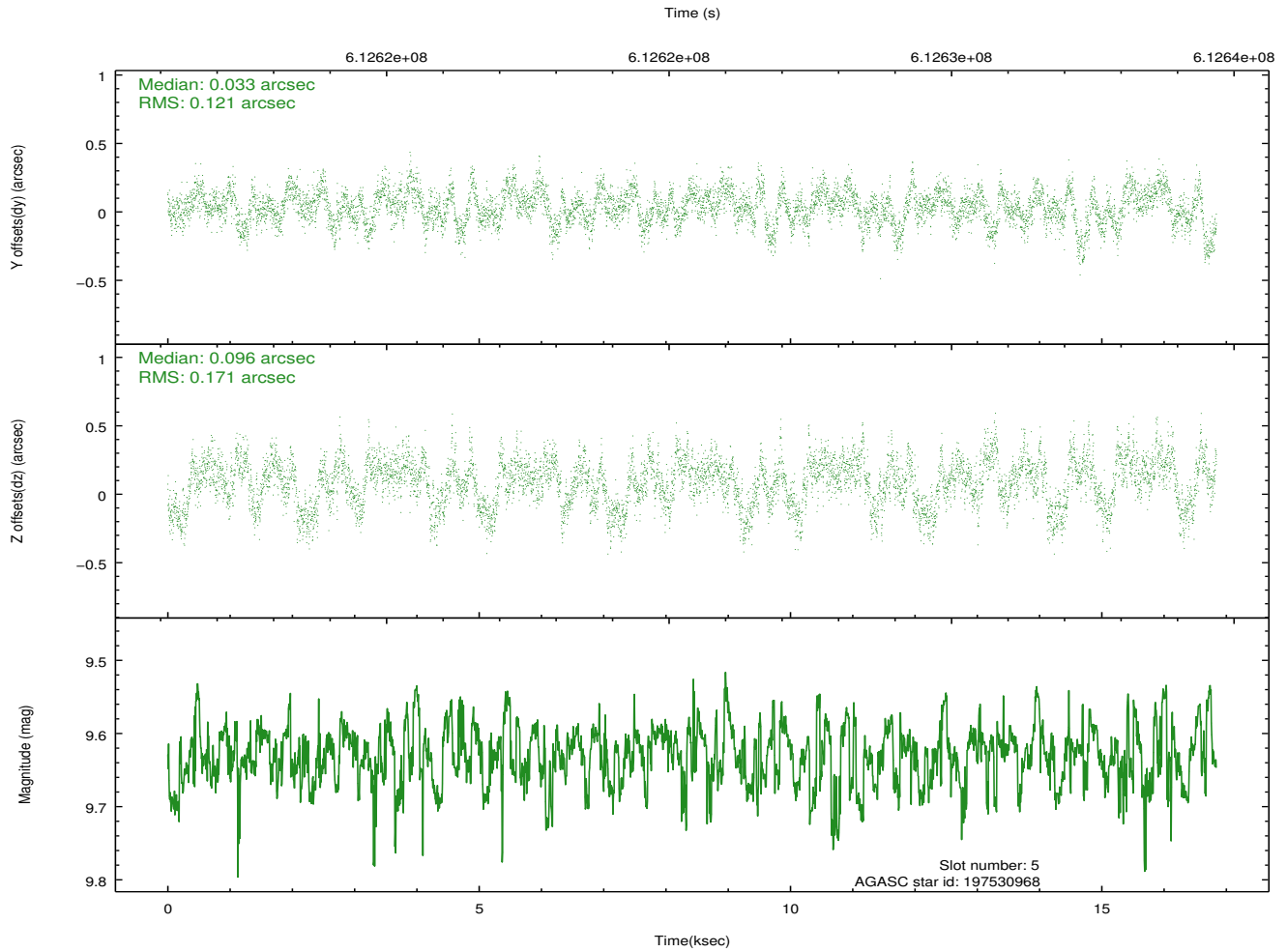
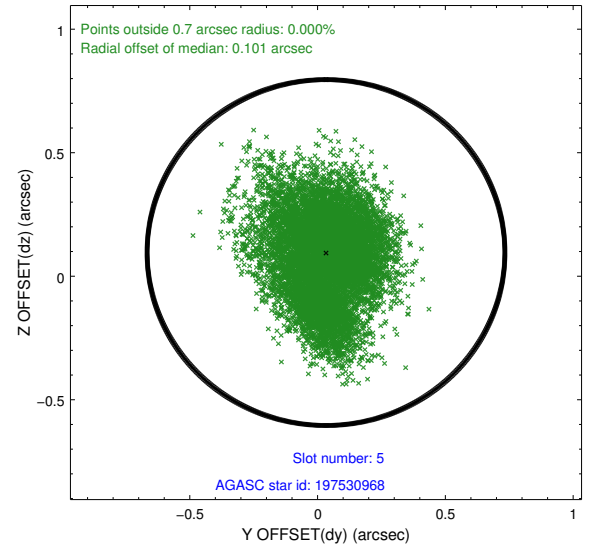
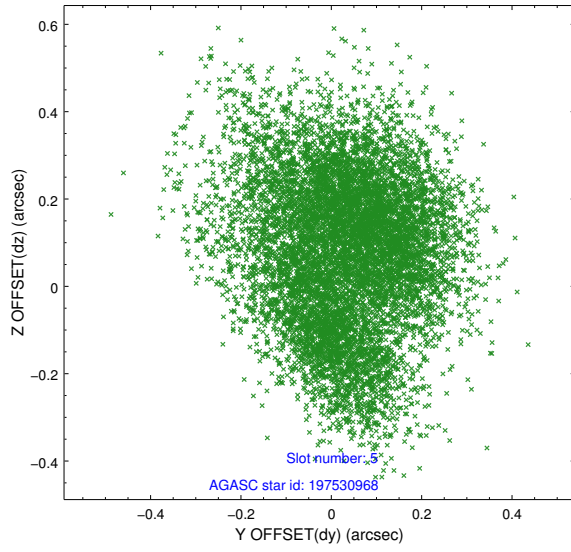
2.4.1 Slot 3



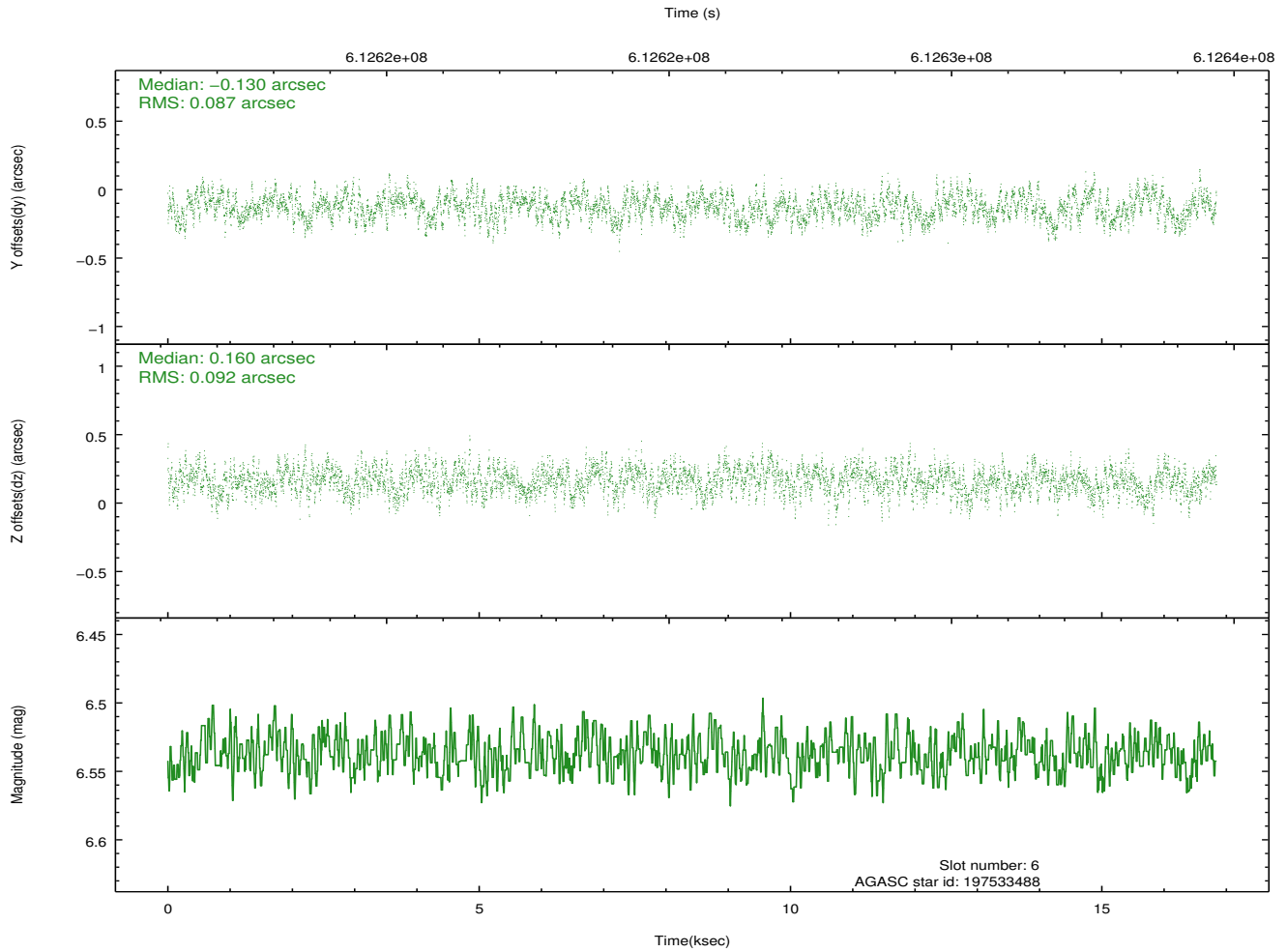
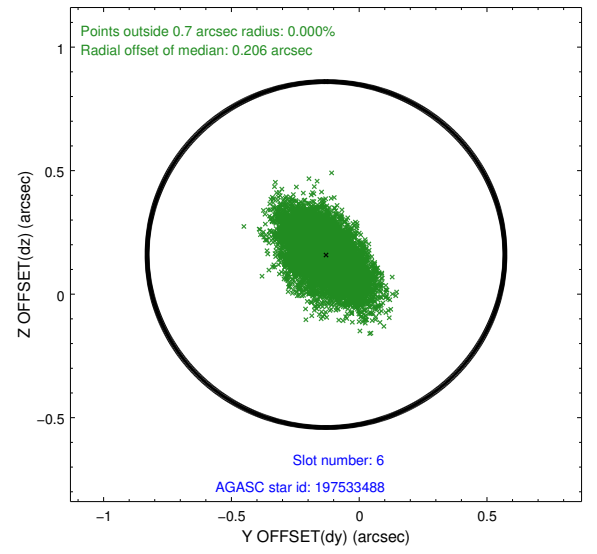
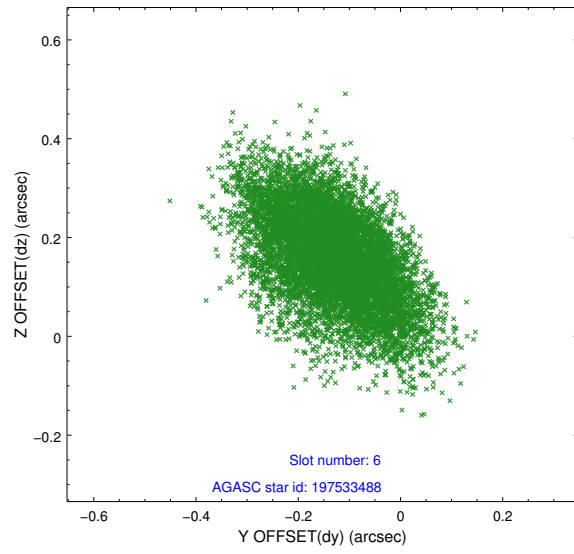
2.4.2 Slot 4



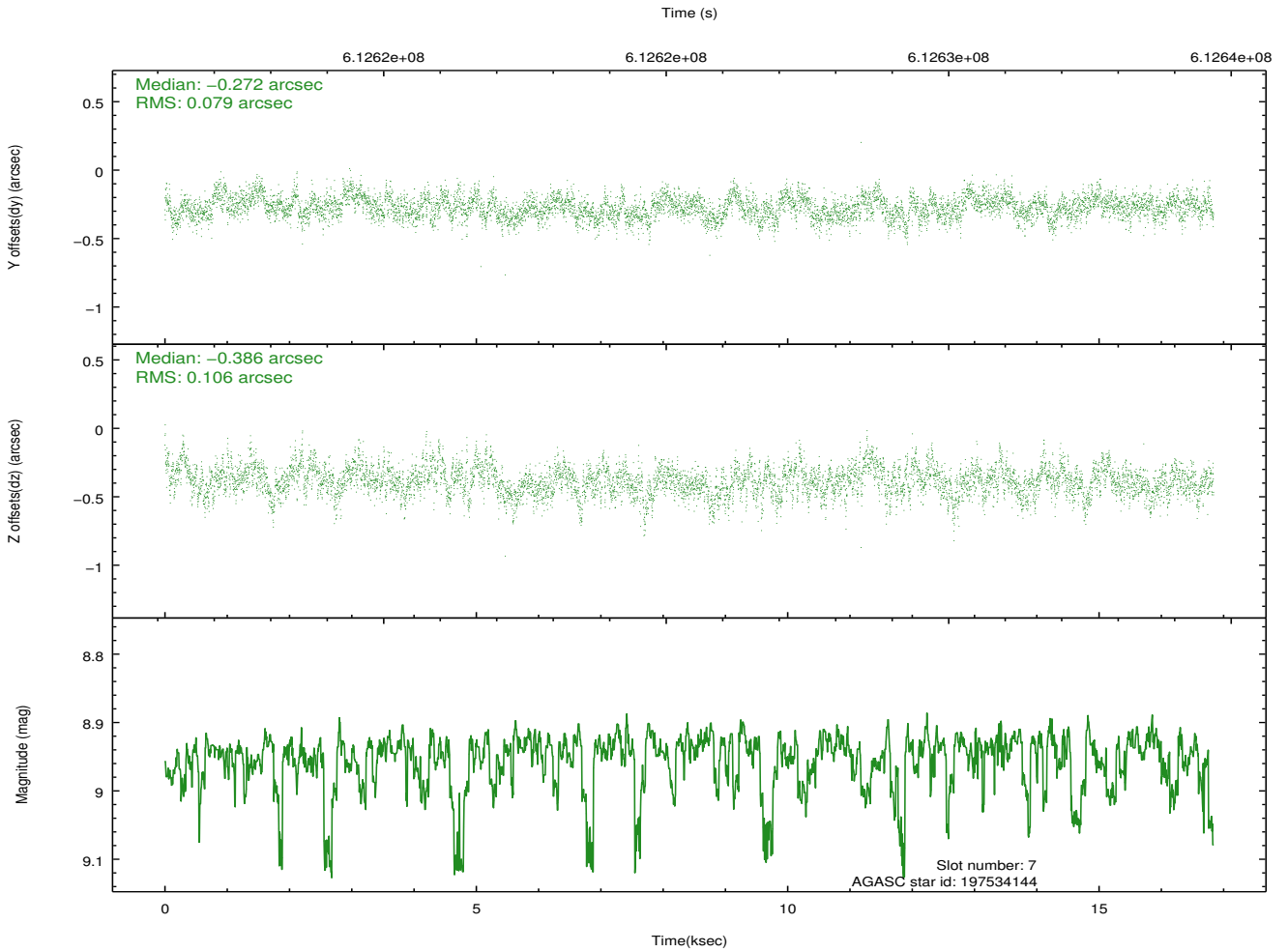
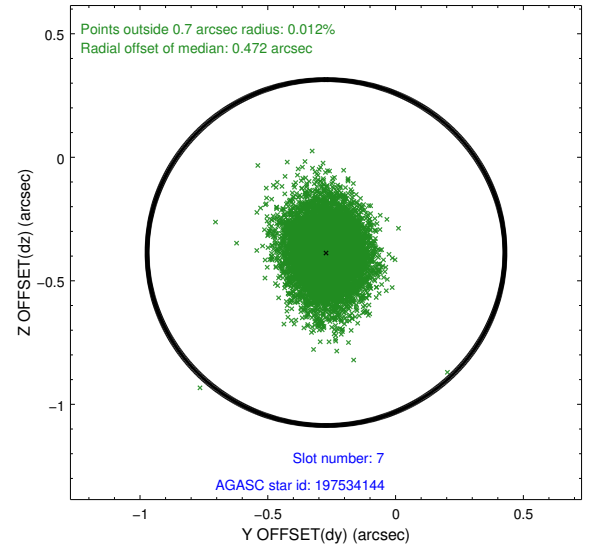
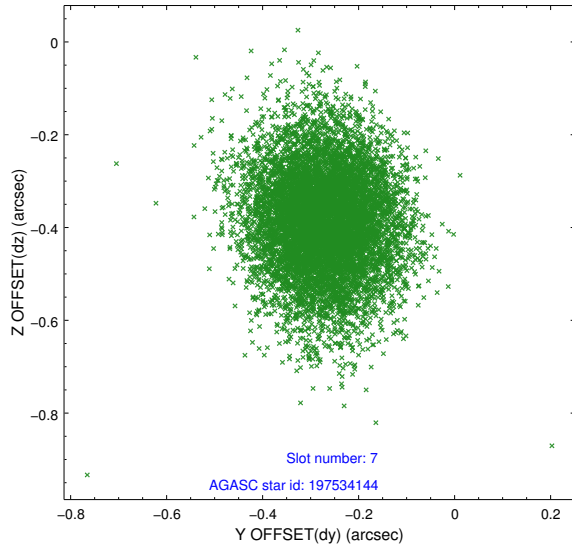
2.4.3 Slot 5



2.4.4 Slot 6

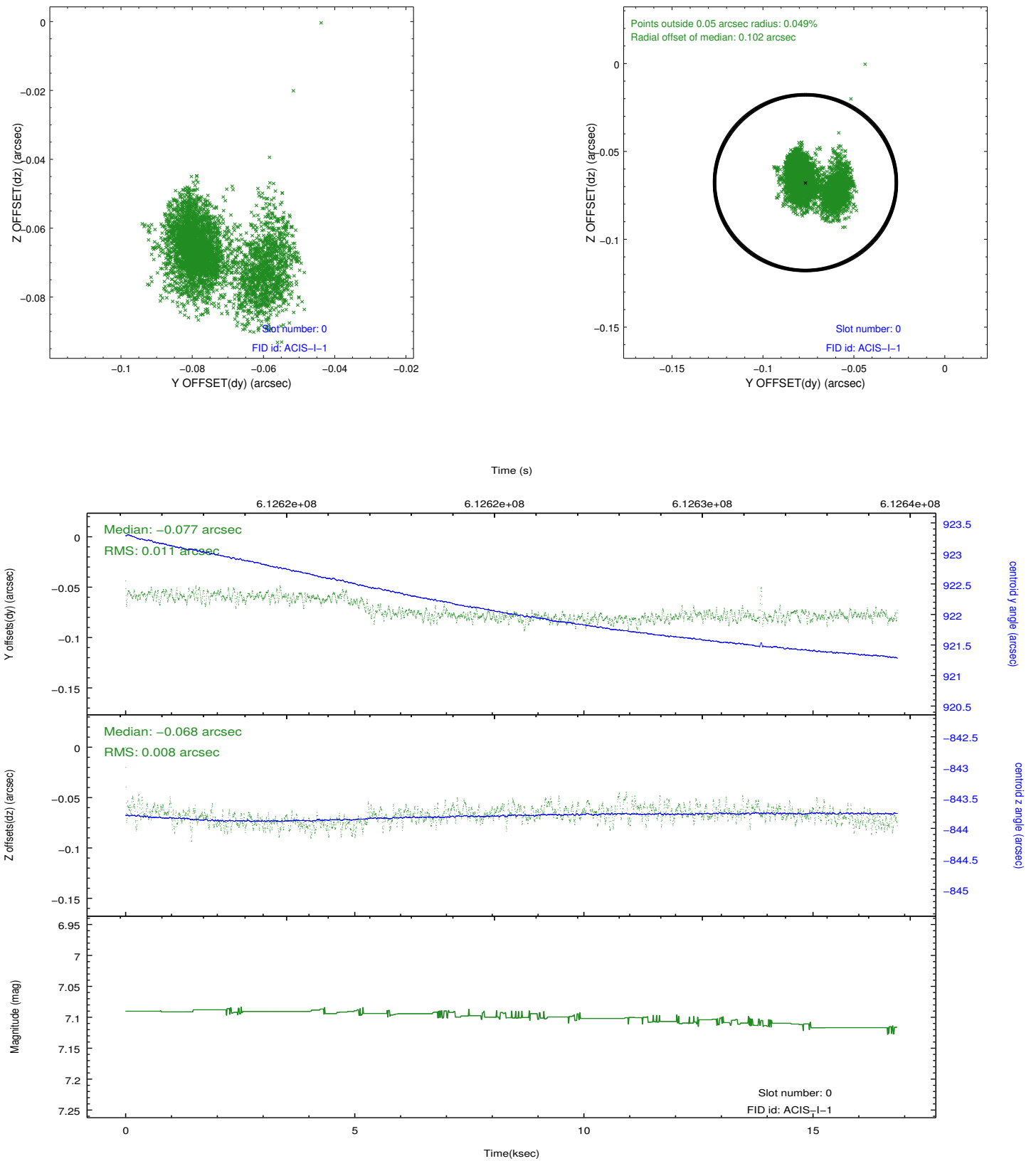


2.4.5 Slot 7

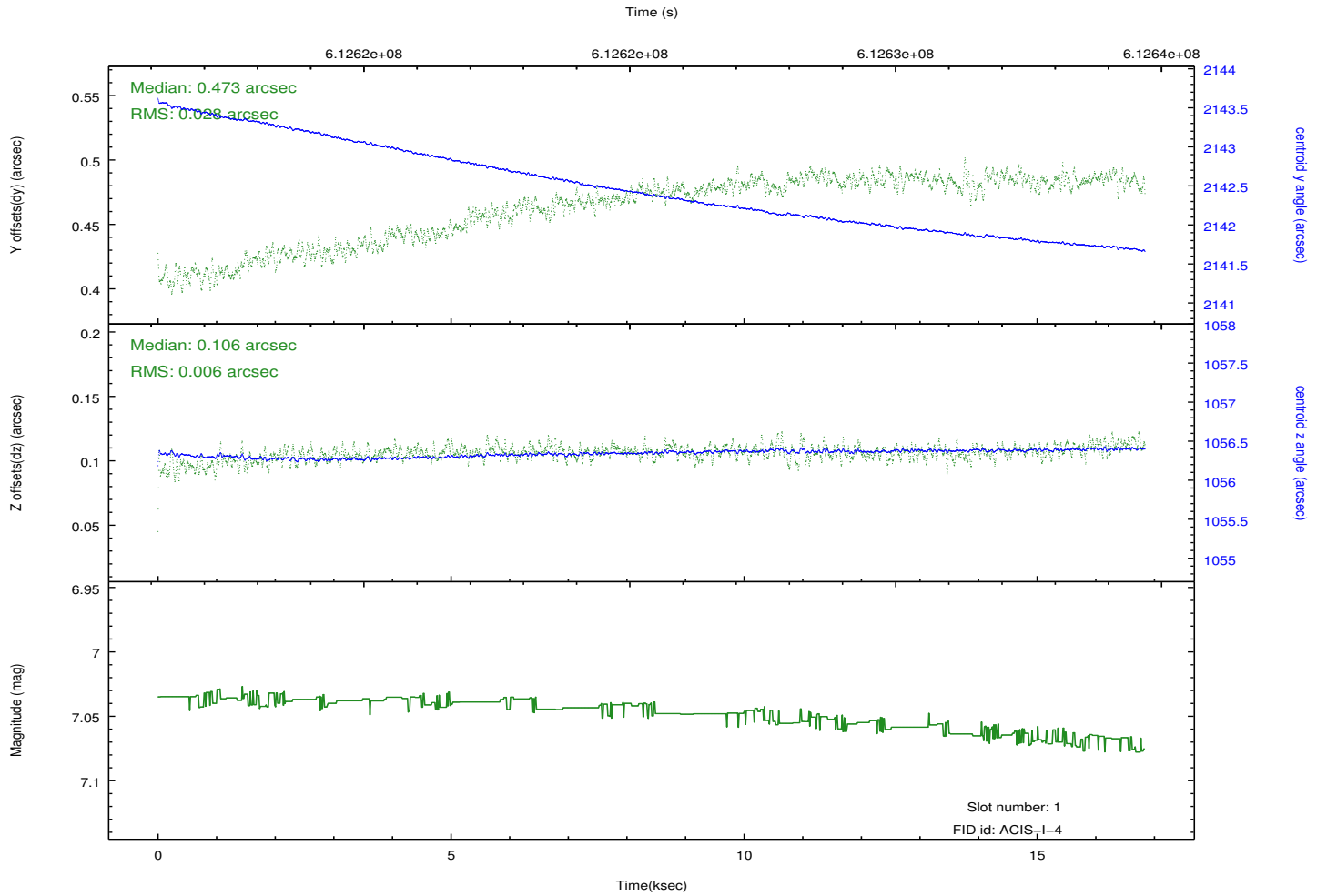
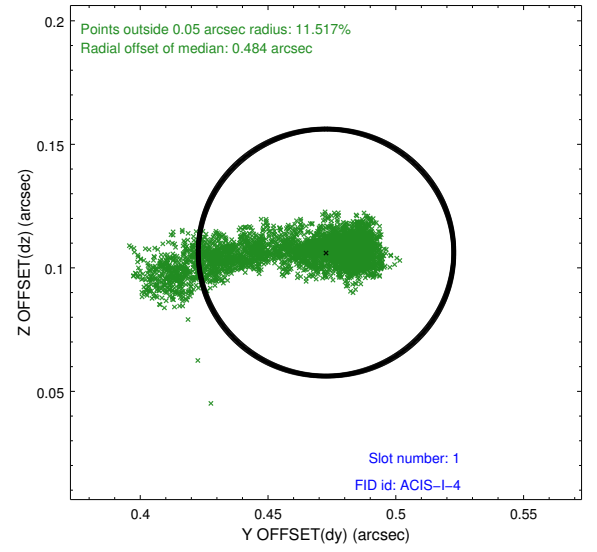
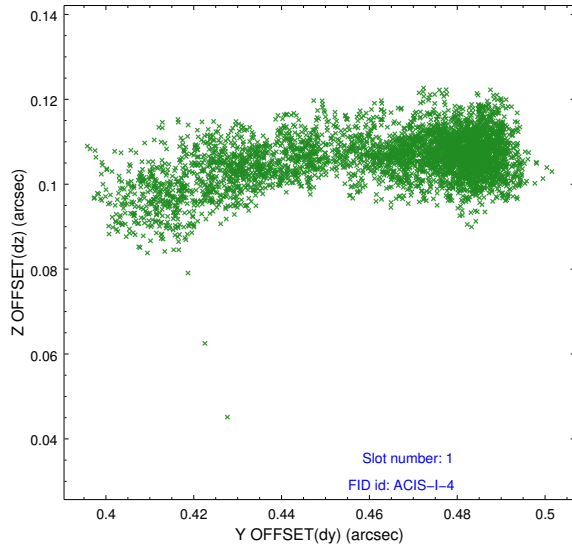


2.5 FID Slots

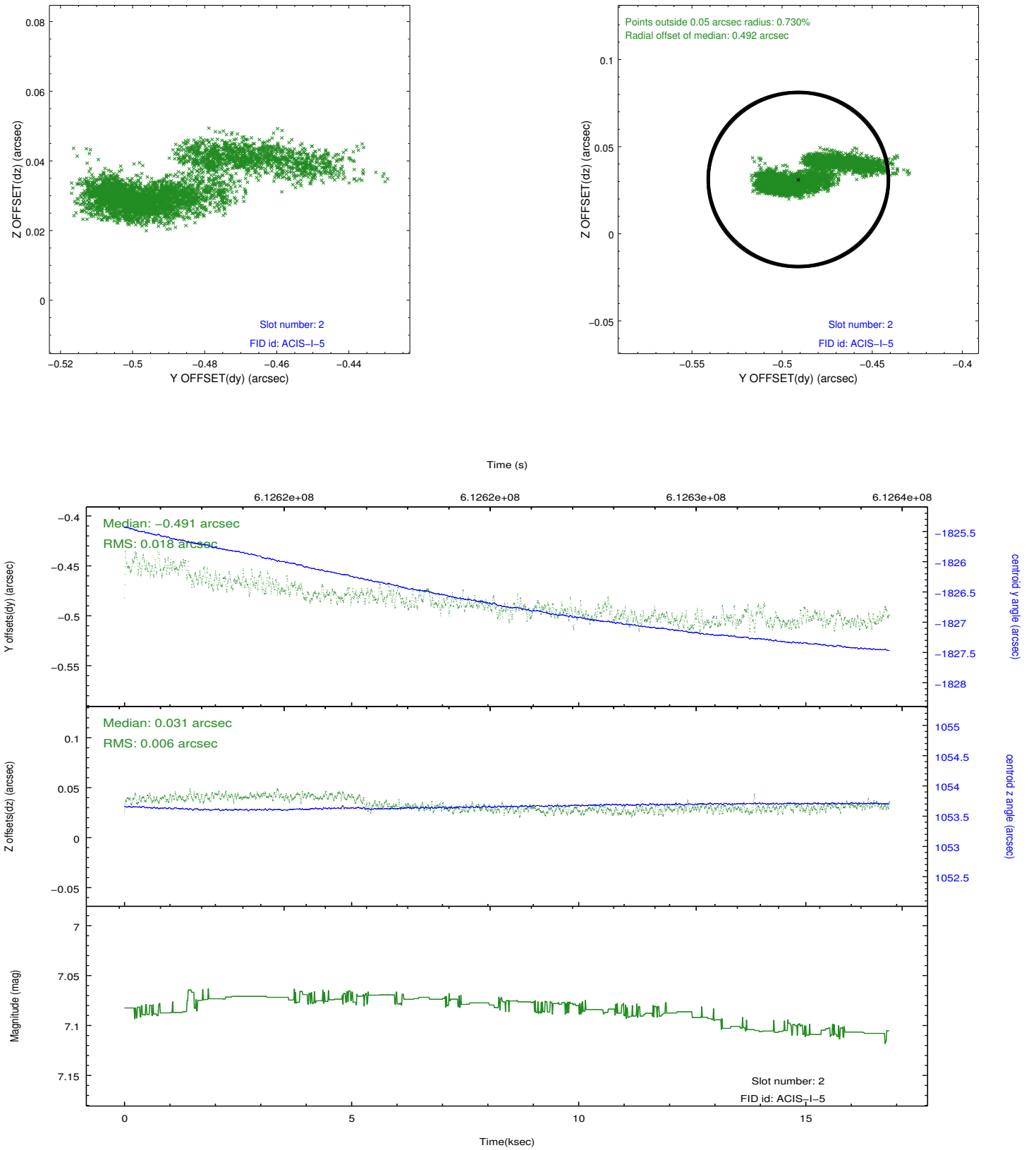
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.459496685505

A.2 Comments