

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21556 - L2 Version 1
Chandra X-Ray Center

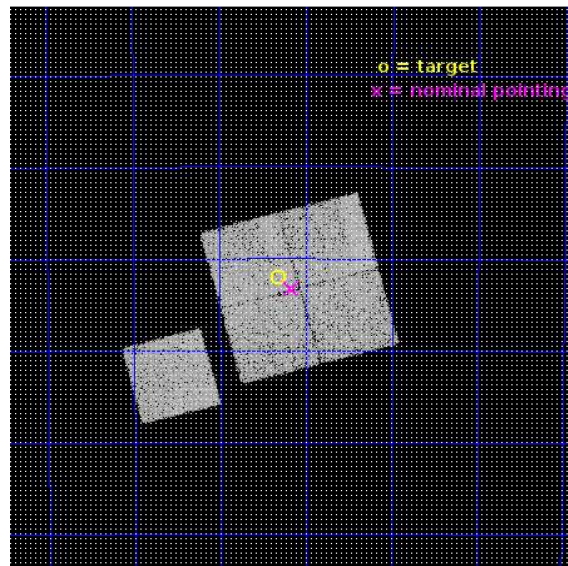
L2 Processing Date : Jan 8 2019

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1 Front

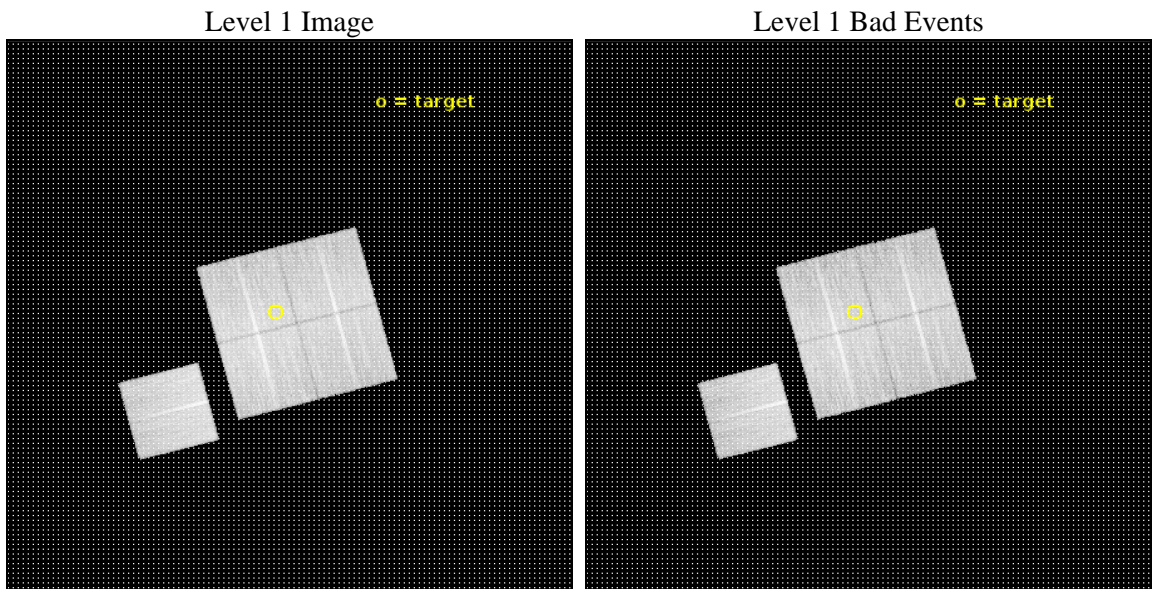
seq_num	801837	Sequence number
obs_id	21556	Observation id
title	Studying the Progenitors of Our Favorite Clusters at $z > 1$	Proposa
observer	Michael McDonald	Principal investigator
object	SPT-CLJ2259-5301	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.83	Observer's specified target RA [deg]
dec_targ	-53.033	Observer's specified target Dec [deg]
ra_nom	344.79219571783	Nominal RA [deg]
dec_nom	-53.054727230452	Nominal Dec [deg]
roll_nom	255.17849964204	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18844.900145054	Sum of GTIs [s]
livetime	18598.677651245	Livetime [s]
ontime0	18844.900145054	Sum of GTIs [s]
ontime1	18838.618174672	Sum of GTIs [s]
ontime2	18844.900145054	Sum of GTIs [s]
ontime3	18844.900145054	Sum of GTIs [s]
ontime6	18844.900145054	Sum of GTIs [s]
l2events	67208	Number of level 2 events



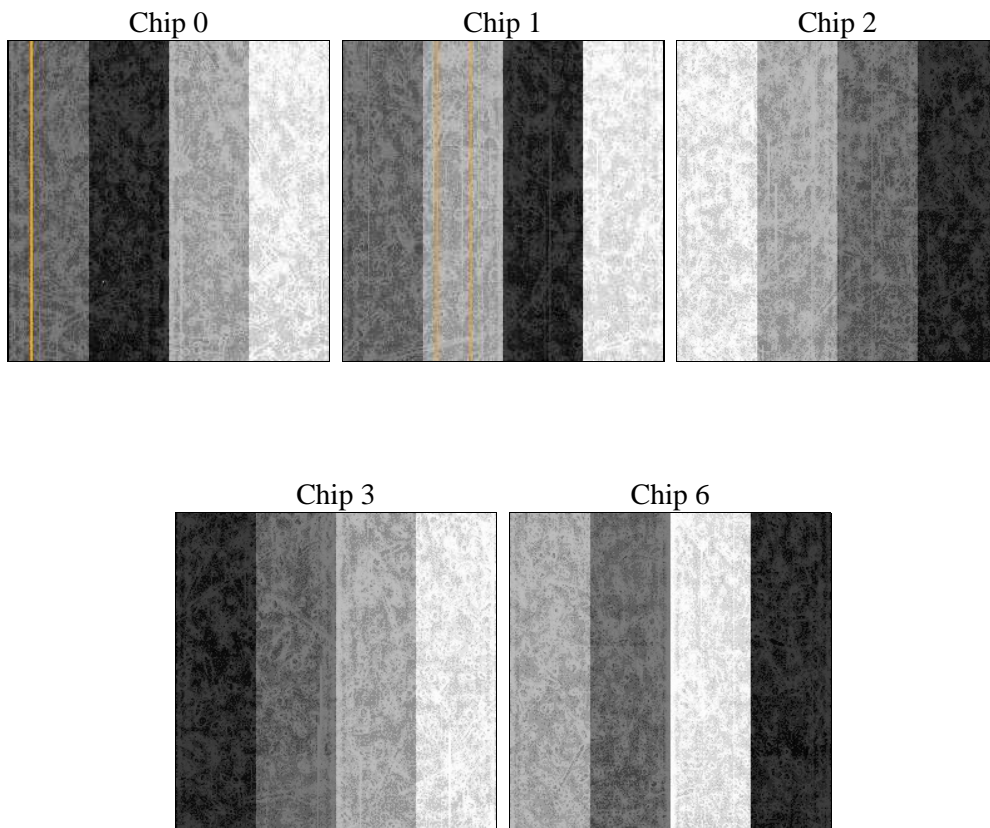
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18776.028000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	18844.900145054	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	18844.900145054	Sum of GTIs [s]
date	2019-01-08T06:07:21	Date and time of file creation	ontime1	18838.618174672	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18844.900145054	Sum of GTIs [s]
			ontime3	18844.900145054	Sum of GTIs [s]
			ontime6	18844.900145054	Sum of GTIs [s]
			l1events	687132	Number of level 1 events

2.1.4 Events

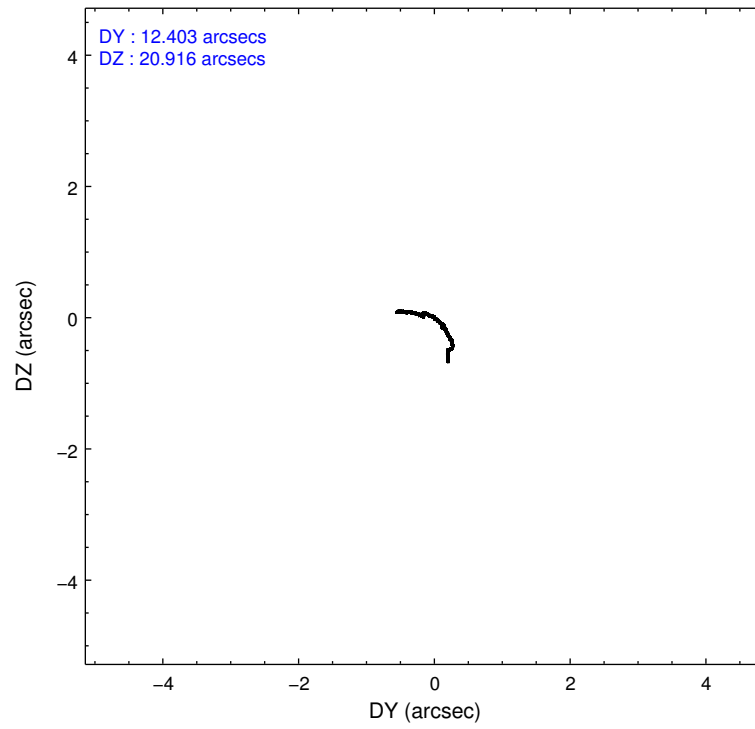
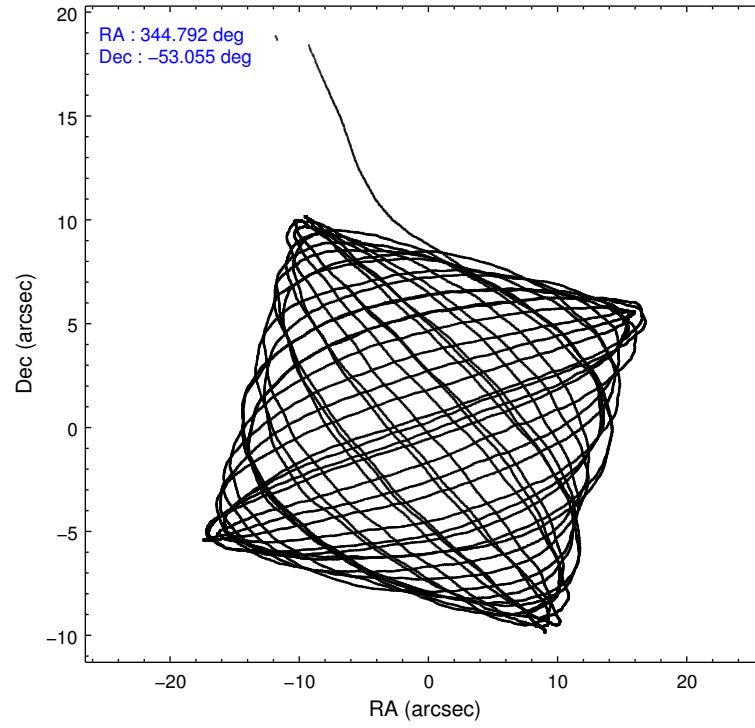
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	128769	128707	147623	134909	147124
rejected events	112891	111339	132026	120022	131170
rejected %	87%	86%	89%	88%	89%

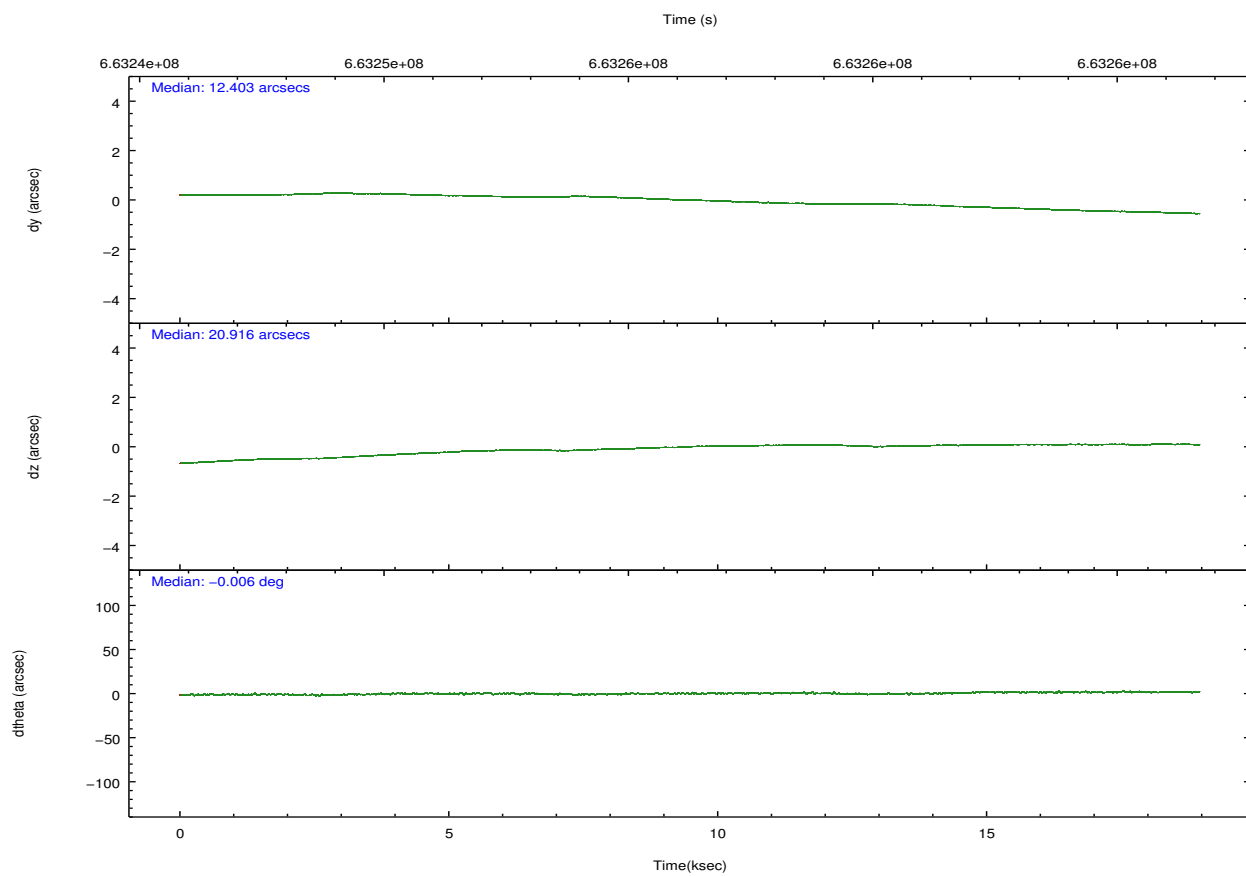
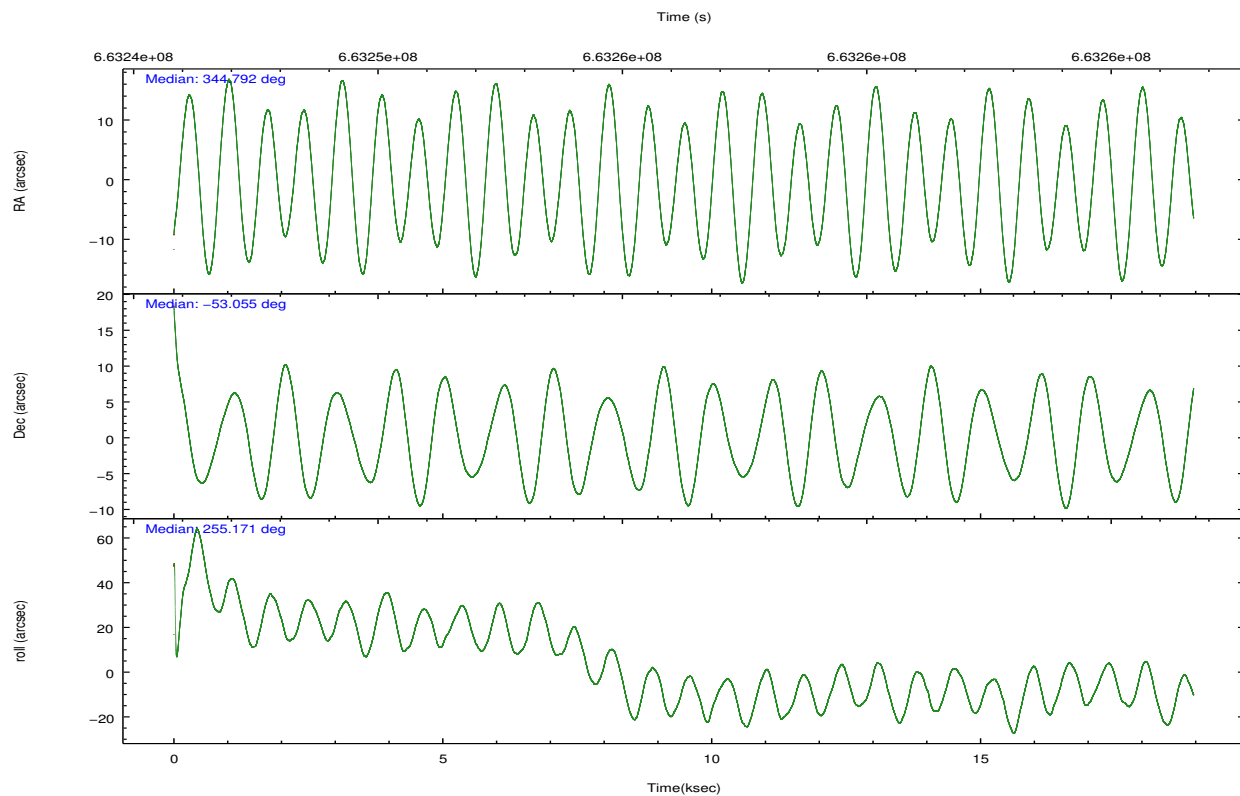
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5325	5628	5658	5529	5257
	4%	4%	3%	4%	3%
grade 1 events	68	60	80	81	68
	0%	0%	0%	0%	0%
grade 2 events	4119	4647	3890	3227	3838
	3%	3%	2%	2%	2%
grade 3 events	1608	1609	1487	1502	1514
	1%	1%	1%	1%	1%
grade 4 events	1526	1546	1533	1545	1488
	1%	1%	1%	1%	1%
grade 5 events	5874	6071	5514	6649	6396
	4%	4%	3%	4%	4%
grade 6 events	3302	3943	3033	3087	3859
	2%	3%	2%	2%	2%
grade 7 events	106947	105203	126428	113289	124704
	83%	81%	85%	83%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	344.780003	344.7921957178329	CCD I2 on	Y	Y
[deg] Pointing Dec	-53.028112	-53.05472723045185	CCD I3 on	Y	Y
[deg] Pointing Roll	254.960058	255.1784996420445	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	663246962.184000	663245892.6329499	CCD S5 on	N	N
Observation start date	2019-01-07T11:14:53	2019-01-07T10:58:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	663265738.184000	663266865.15921	On-chip summing requested	N	N
Observation end date	2019-01-07T16:27:49	2019-01-07T16:47:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



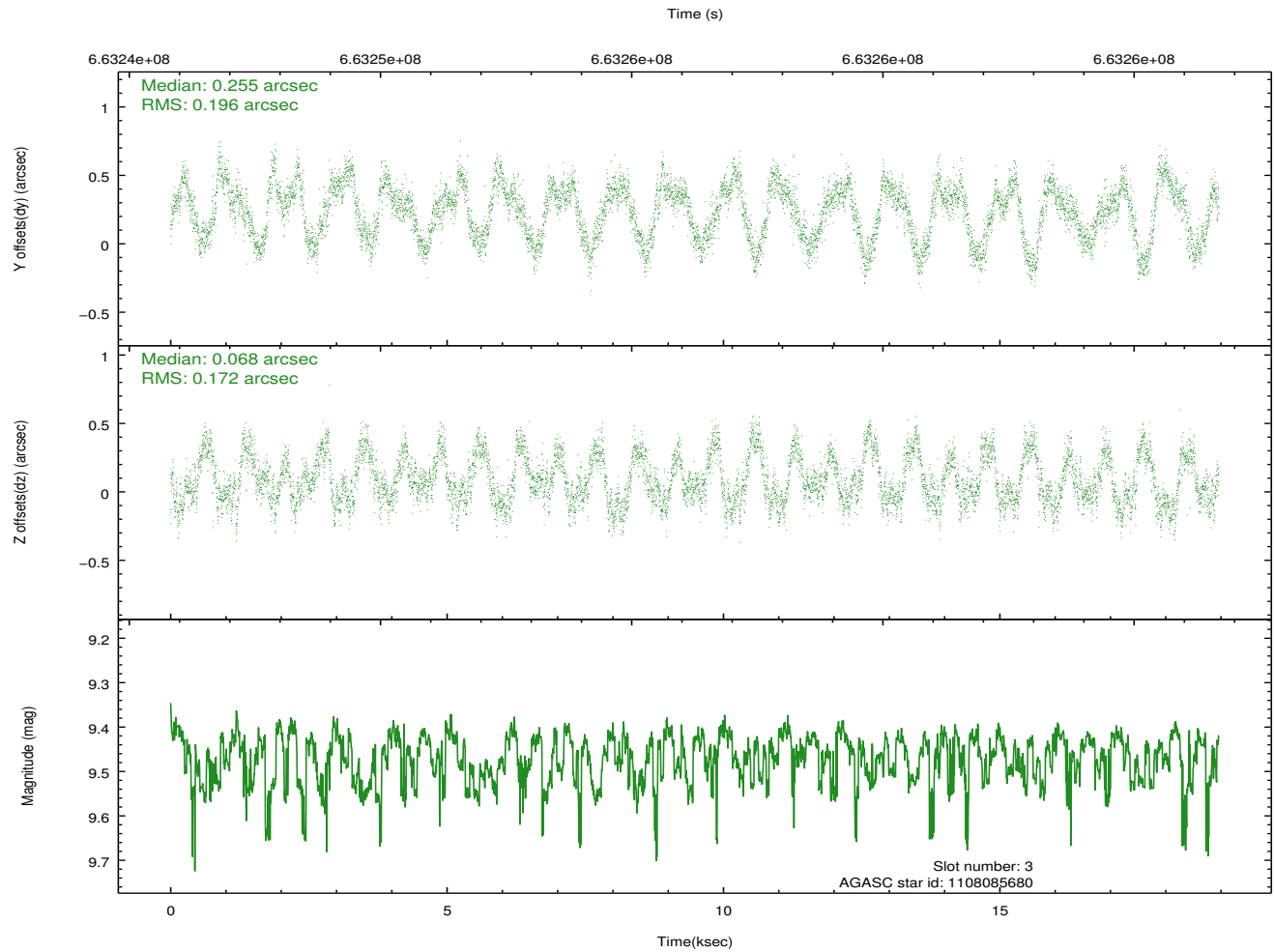
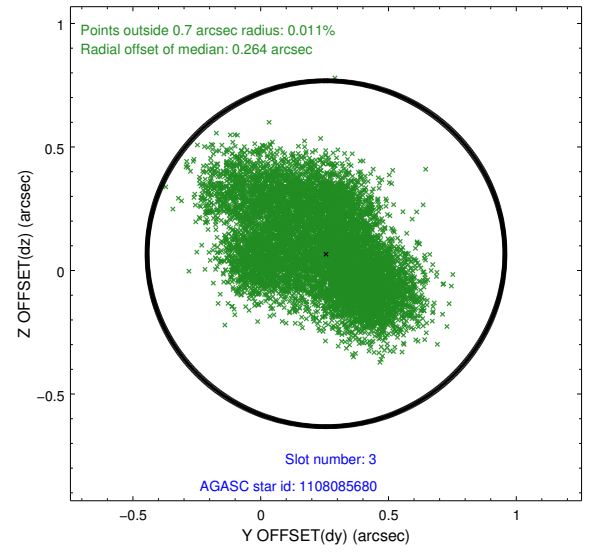
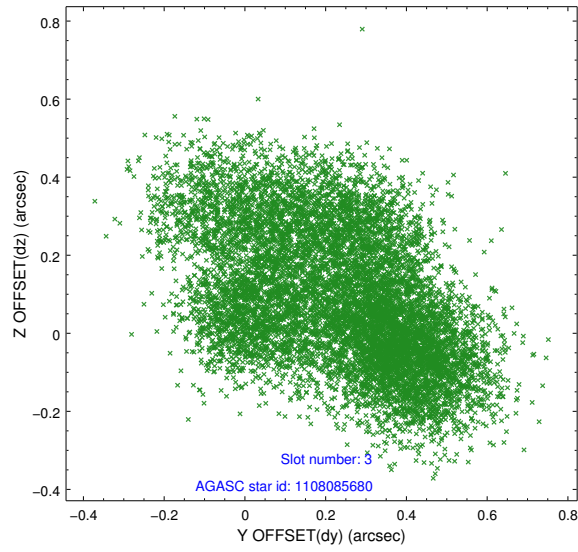


Slot Statistics

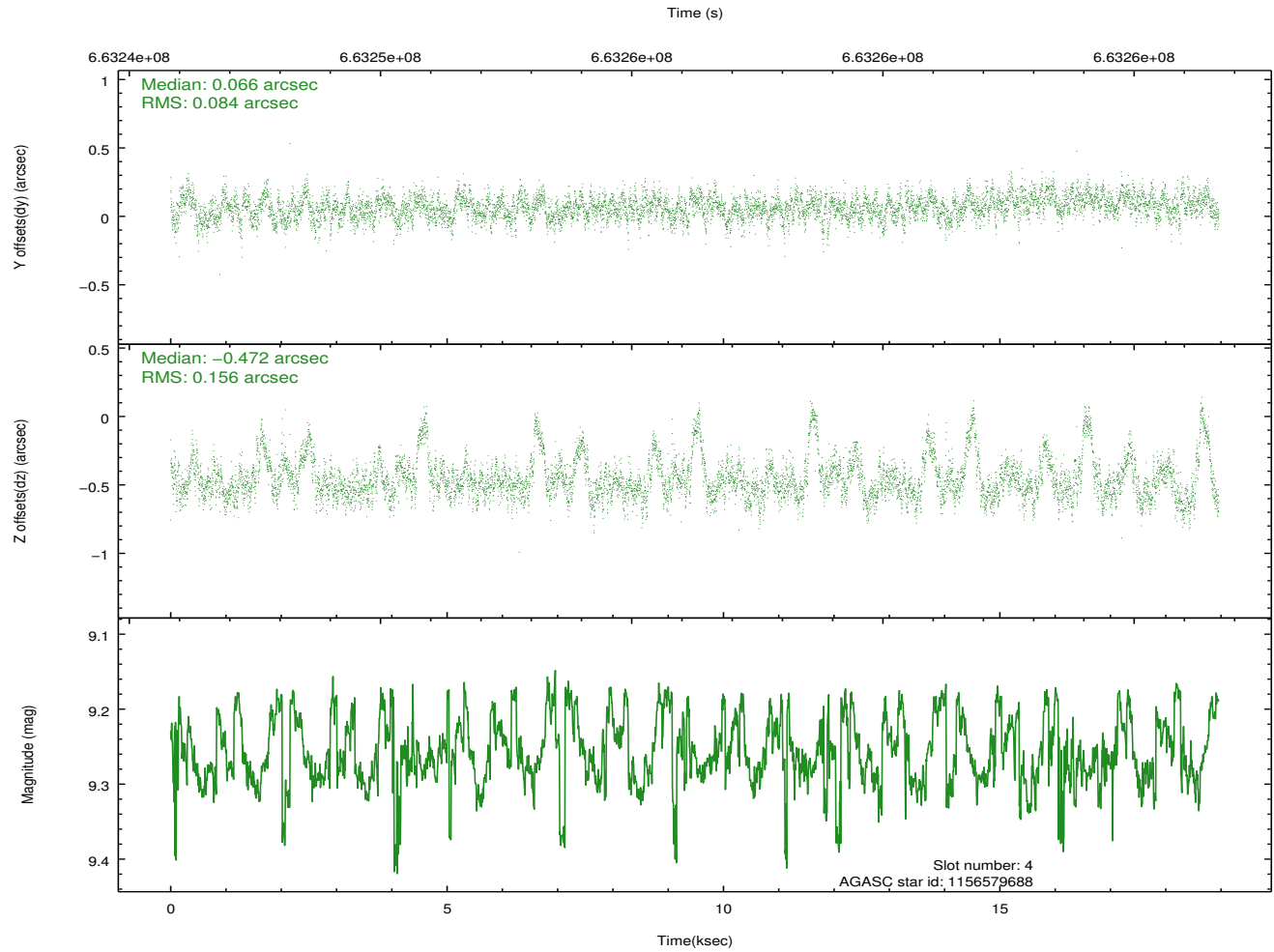
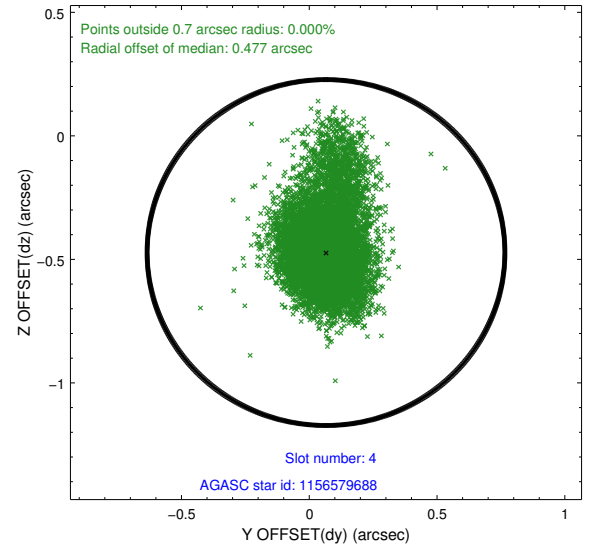
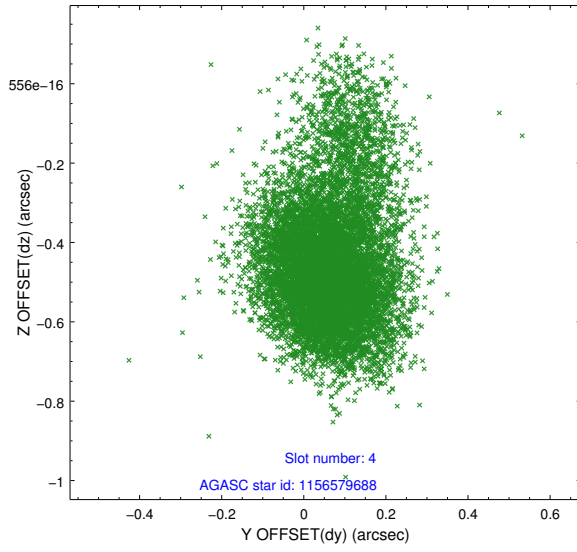
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	4626	1.000	0.107	-0.108	0.011	0.018	0.000000	0.000000	927.35	-844
1	FID		ACIS-I-5	7.23	4626	1.000	-0.471	0.021	0.013	0.020	0.000000	0.000000	-1821.37	1052
2	FID		ACIS-I-6	7.23	4625	1.000	0.274	0.155	0.019	0.026	0.000000	0.000000	392.65	1697
3	GUIDE	used	1108085680	9.47	9235	1.000	0.255	0.068	0.281	0.441	345.144566	-52.439600	-2250.76	223
4	GUIDE	used	1156579688	9.26	9244	1.000	0.066	-0.472	0.169	0.353	344.832962	-53.359427	1122.63	419
5	GUIDE	used	1156580632	9.76	9225	1.000	0.025	0.414	0.299	0.473	344.592634	-53.121058	429.45	-302
6	GUIDE	used	1156580872	7.17	9248	1.000	-0.269	-0.037	0.143	0.215	345.684447	-52.965335	-715.42	1839
7	GUIDE	used	1156581376	8.96	9244	1.000	-0.052	0.013	0.139	0.230	345.778087	-52.647374	-1875.03	1754

2.4 Star Slots

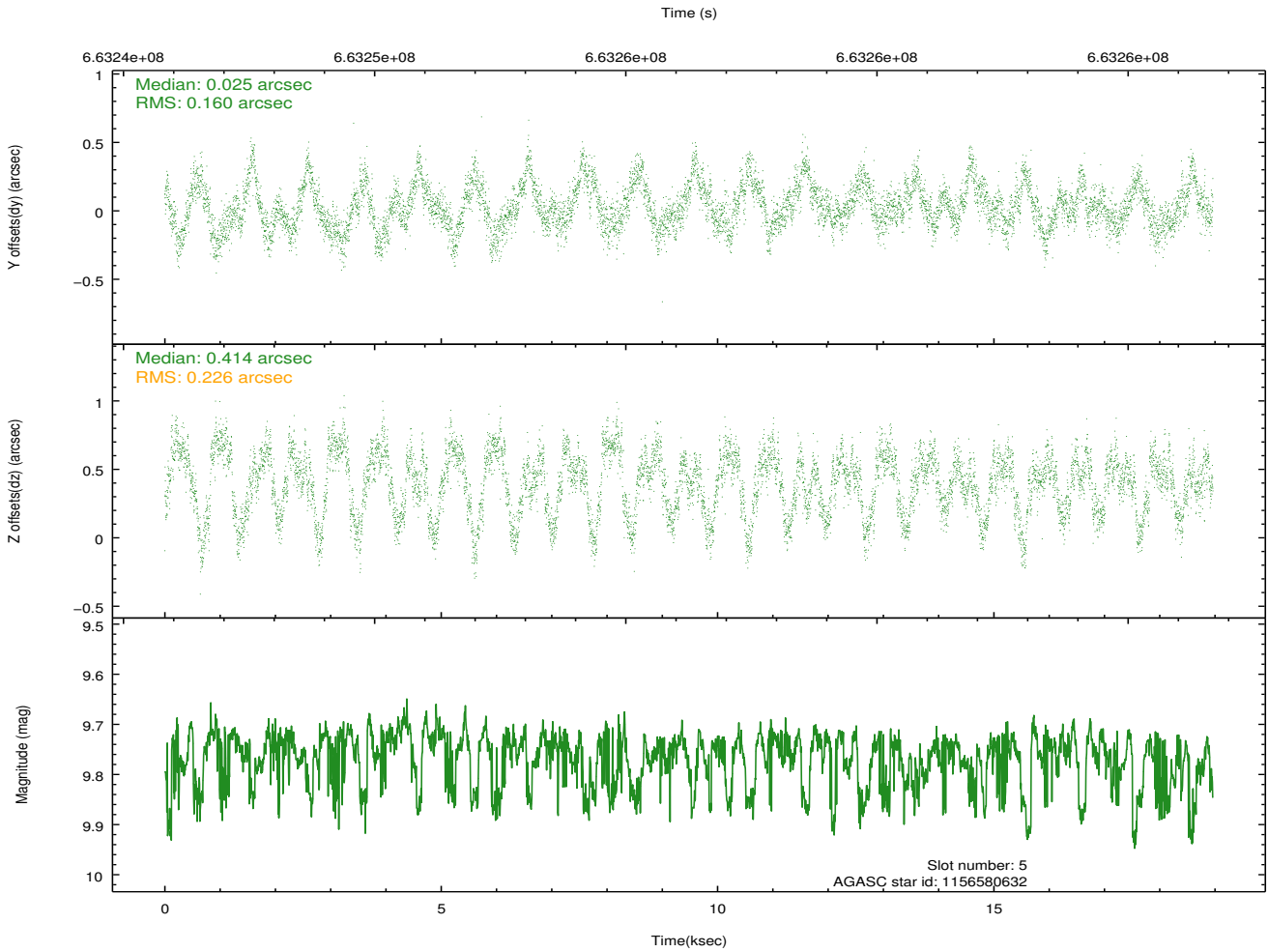
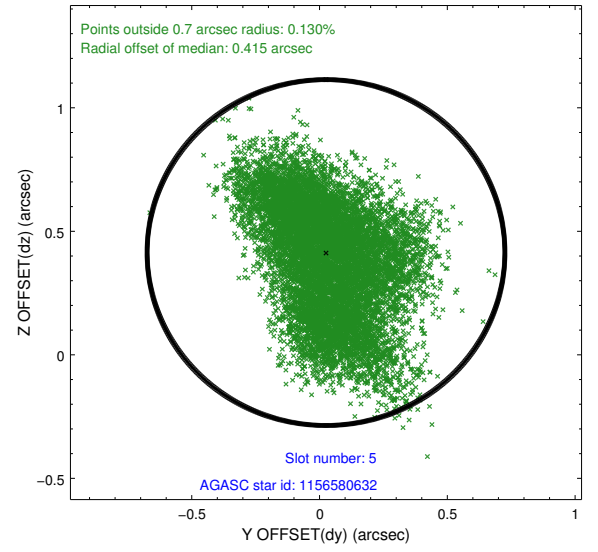
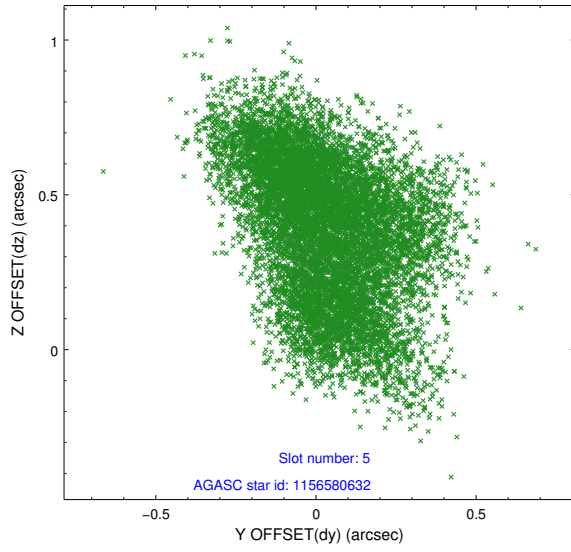
2.4.1 Slot 3



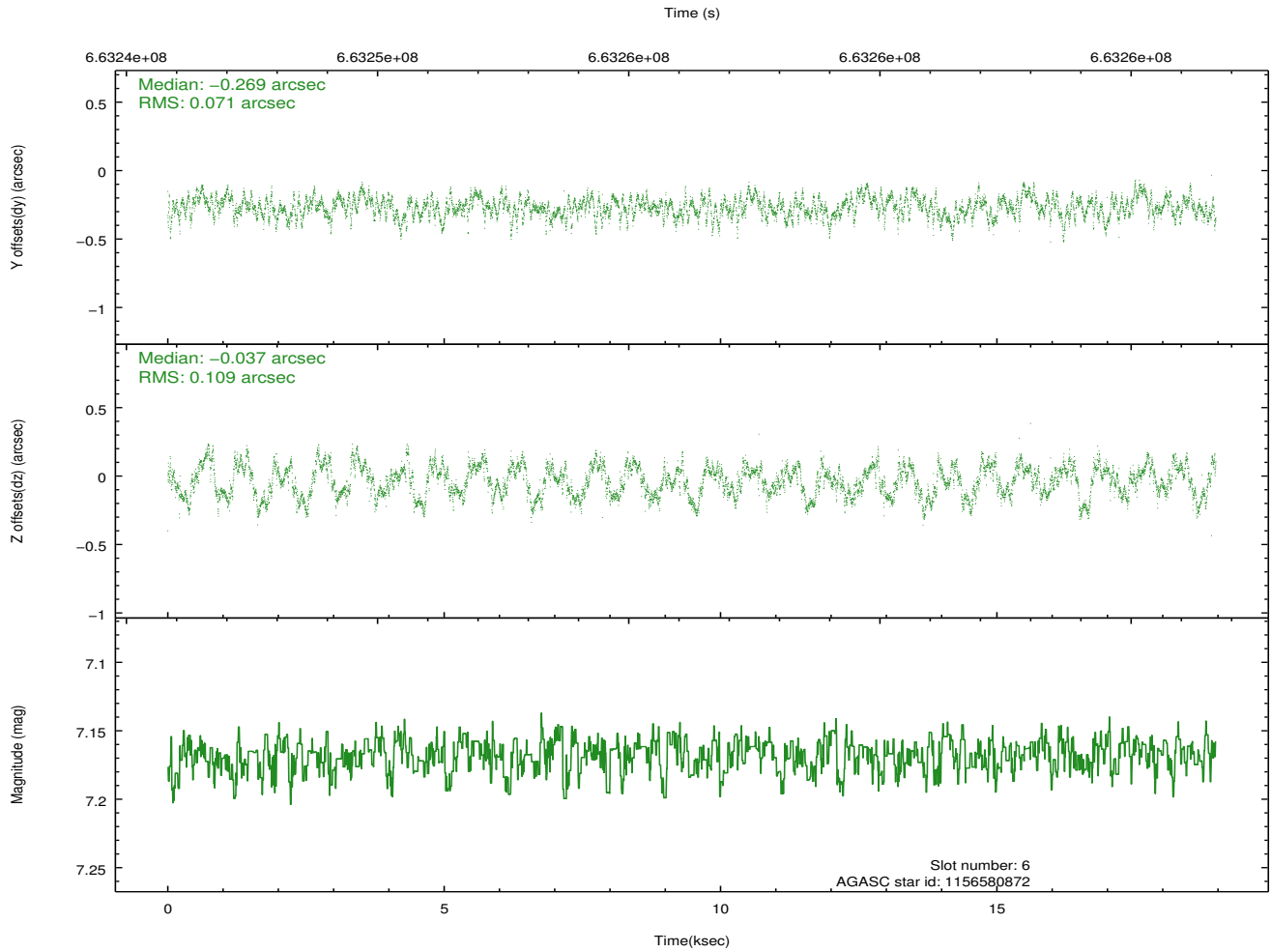
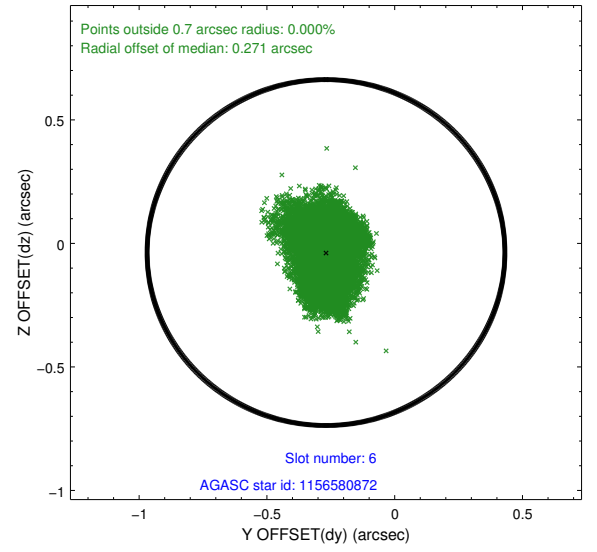
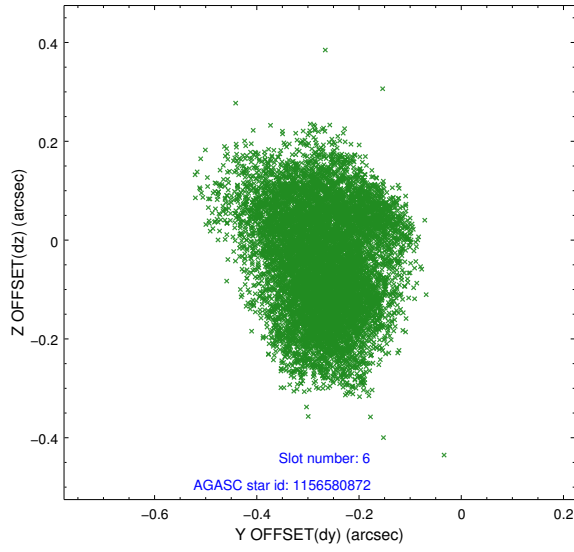
2.4.2 Slot 4



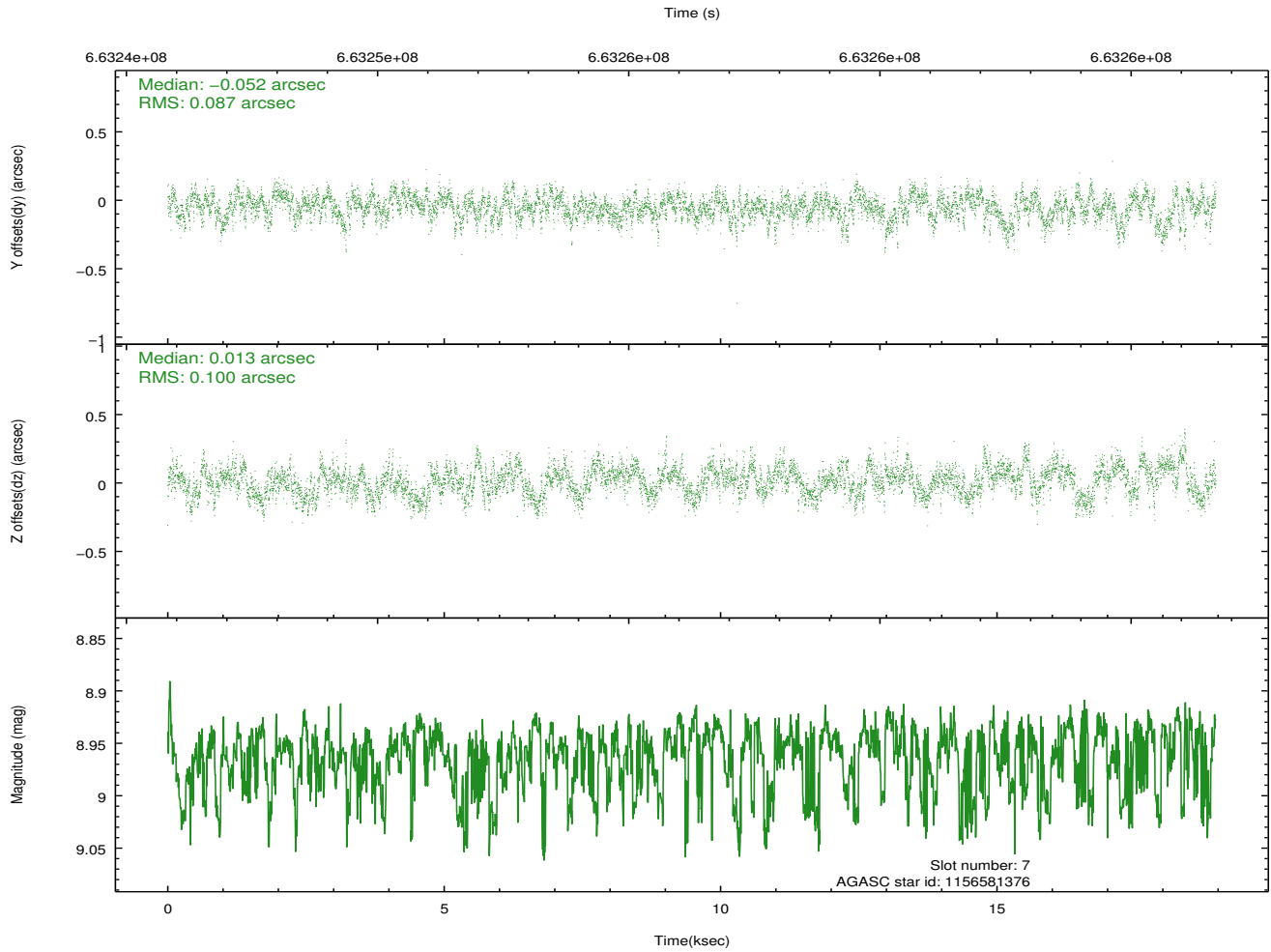
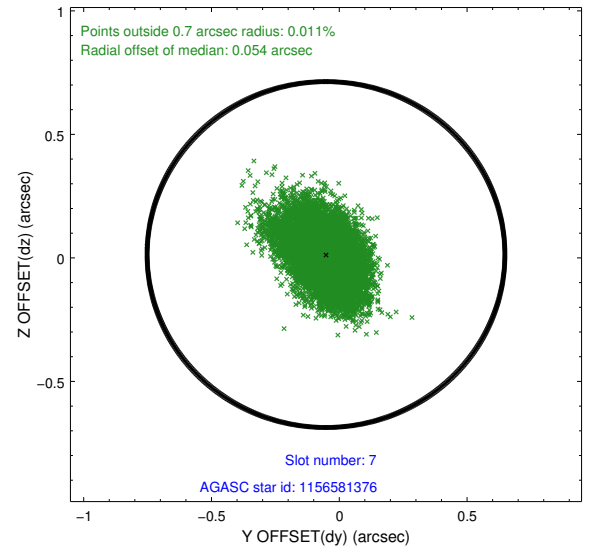
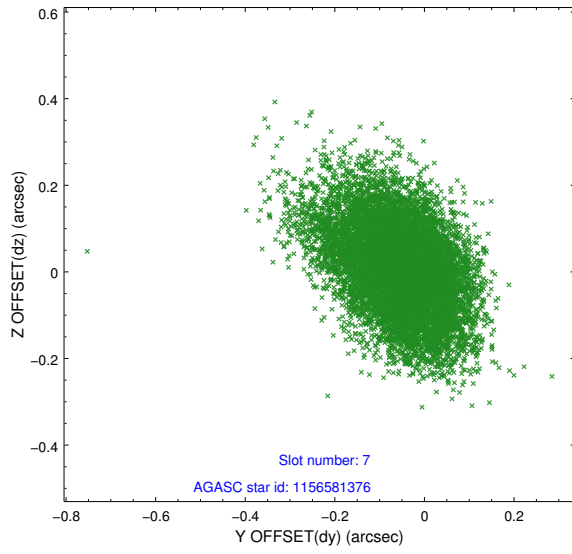
2.4.3 Slot 5



2.4.4 Slot 6

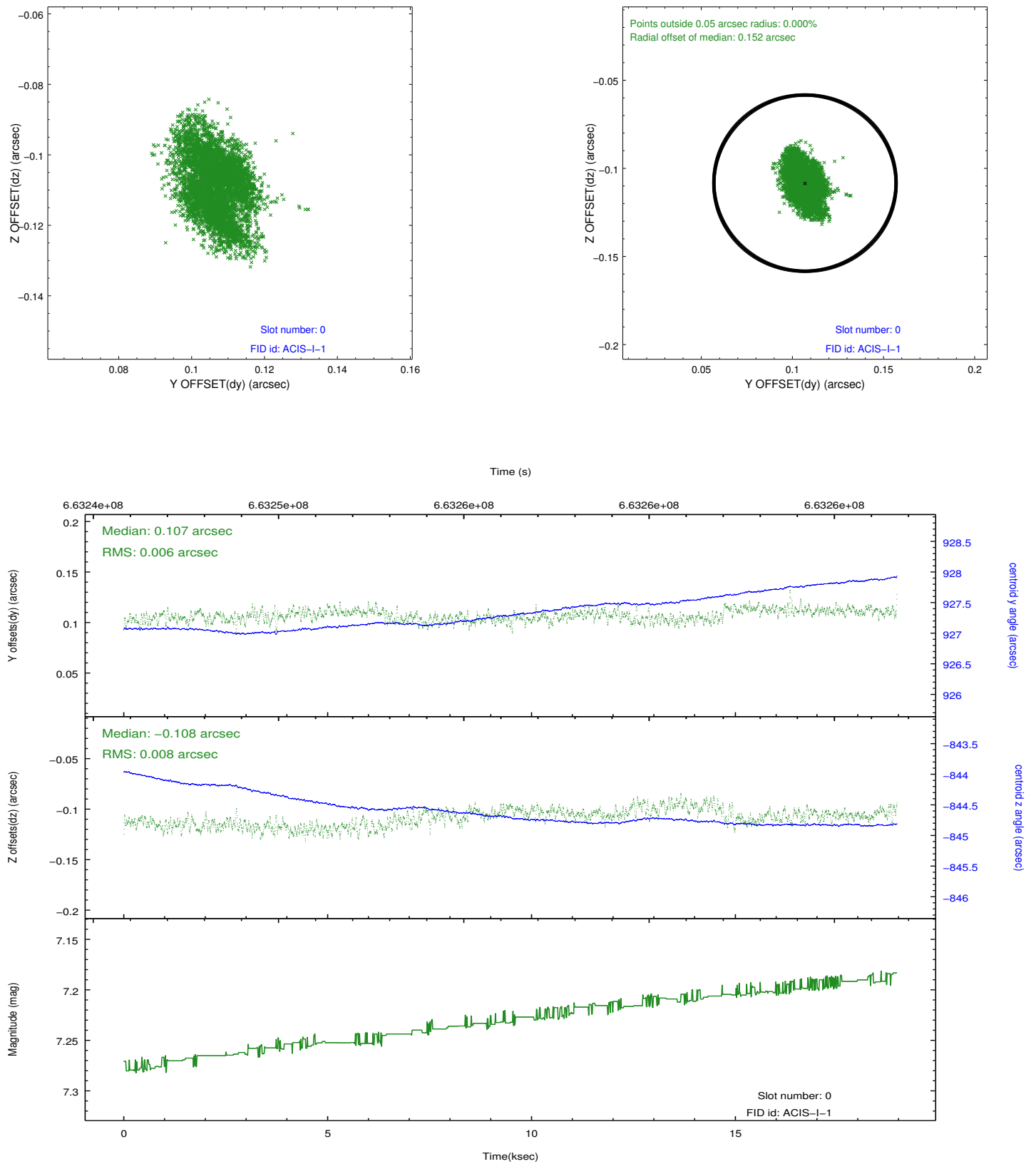


2.4.5 Slot 7

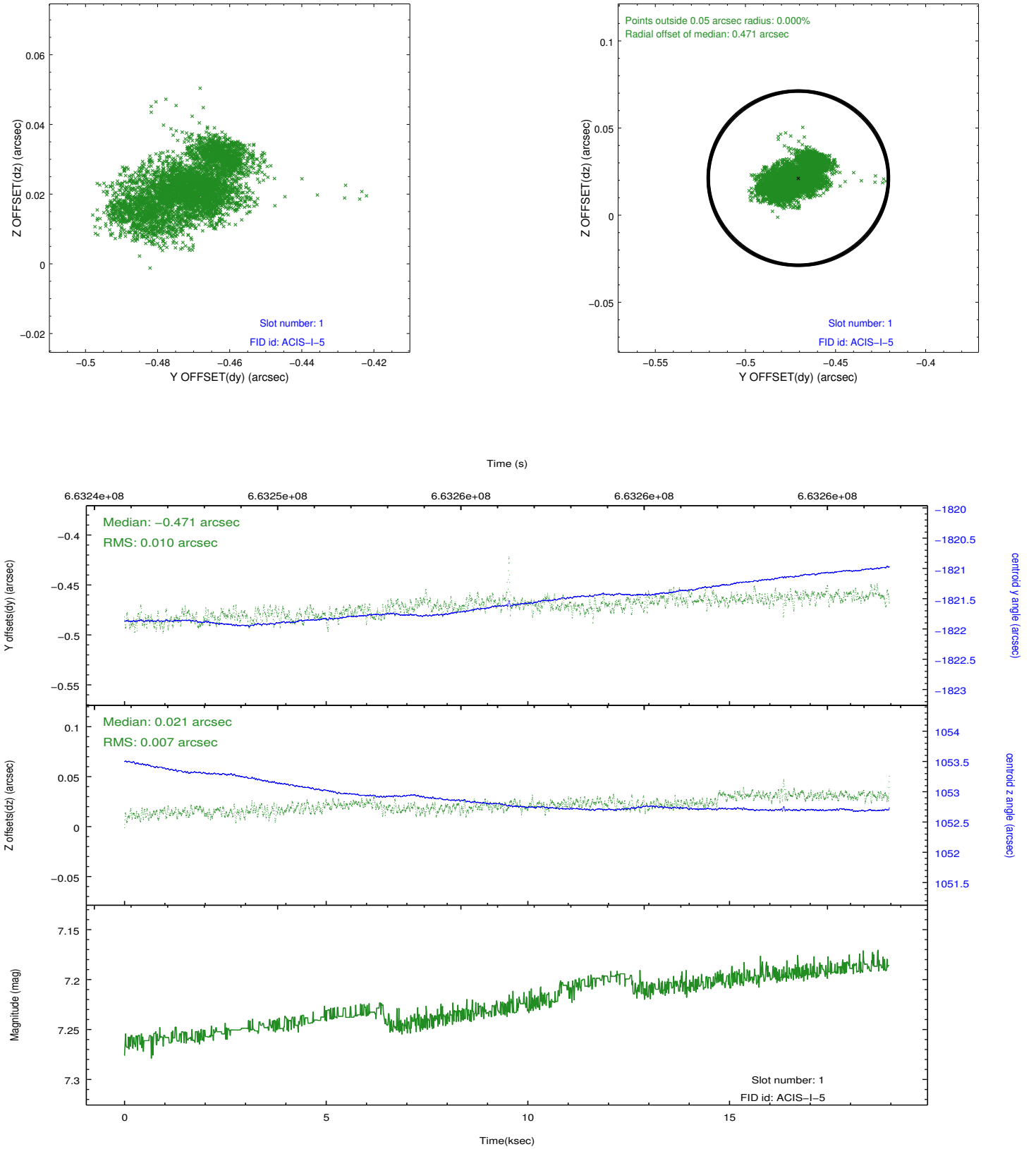


2.5 FID Slots

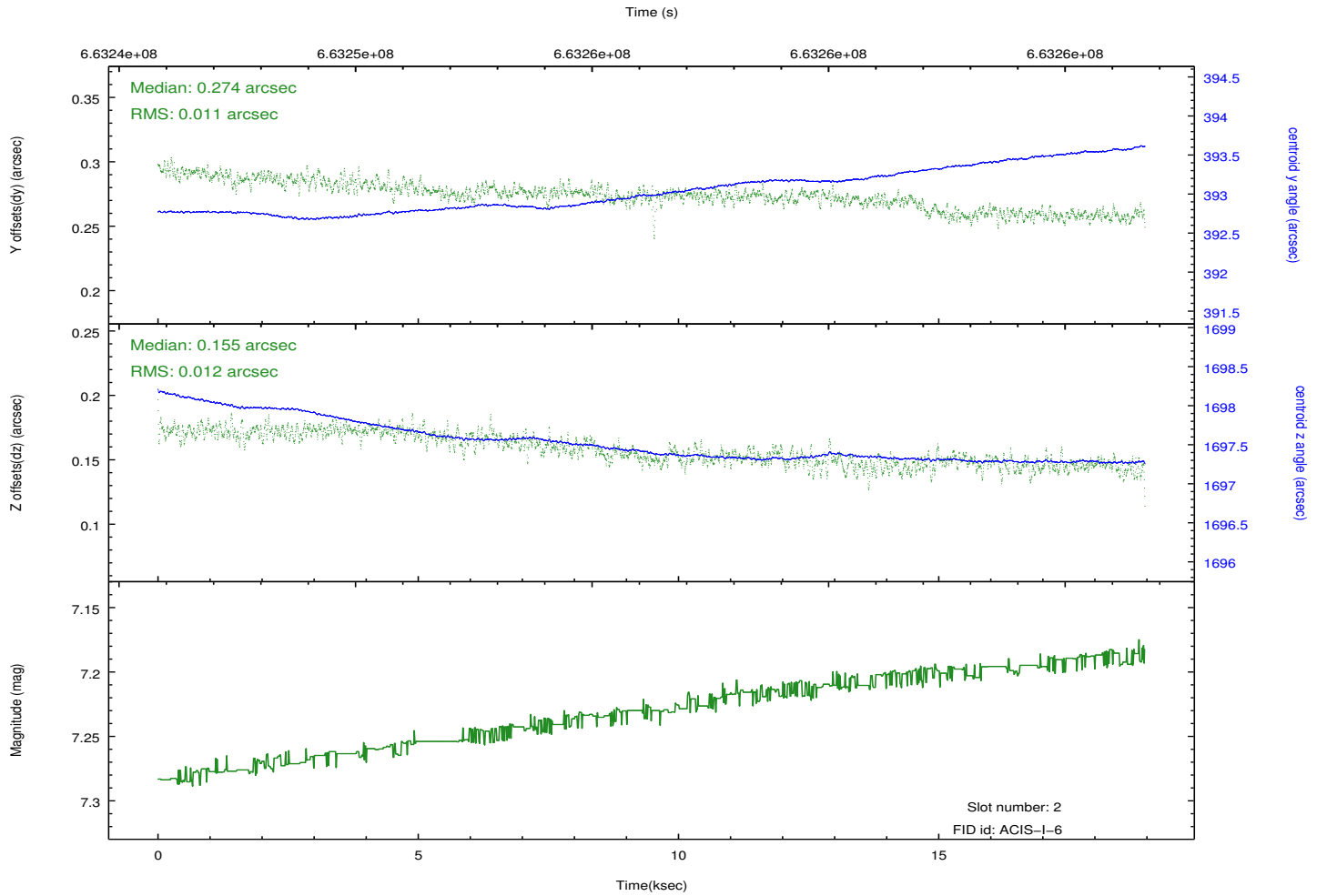
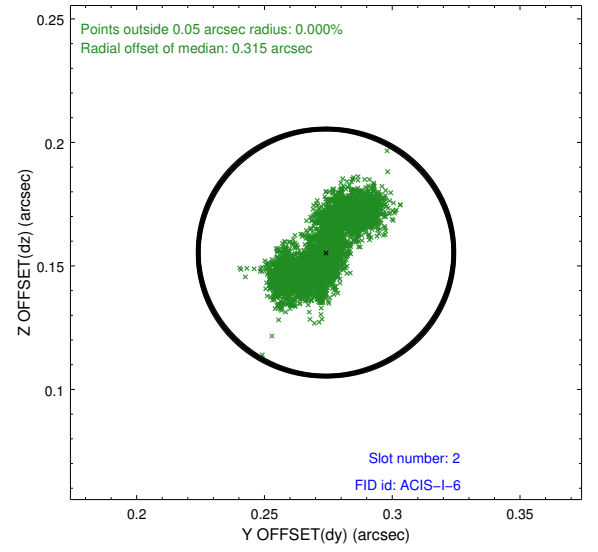
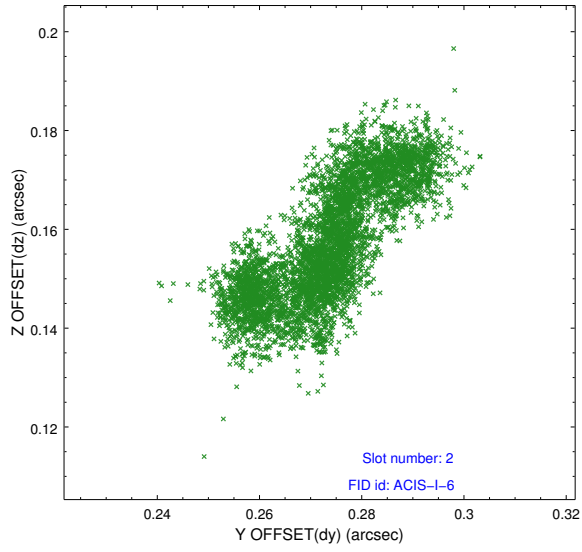
2.5.1 Slot 0



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)	2019.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.844900145054

A.2 Comments