

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 19695 - L2 Version 1
Chandra X-Ray Center

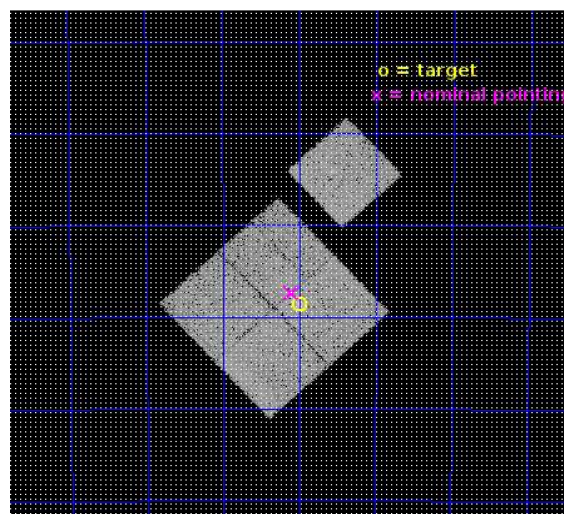
L2 Processing Date : Aug 25 2016

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1 Front

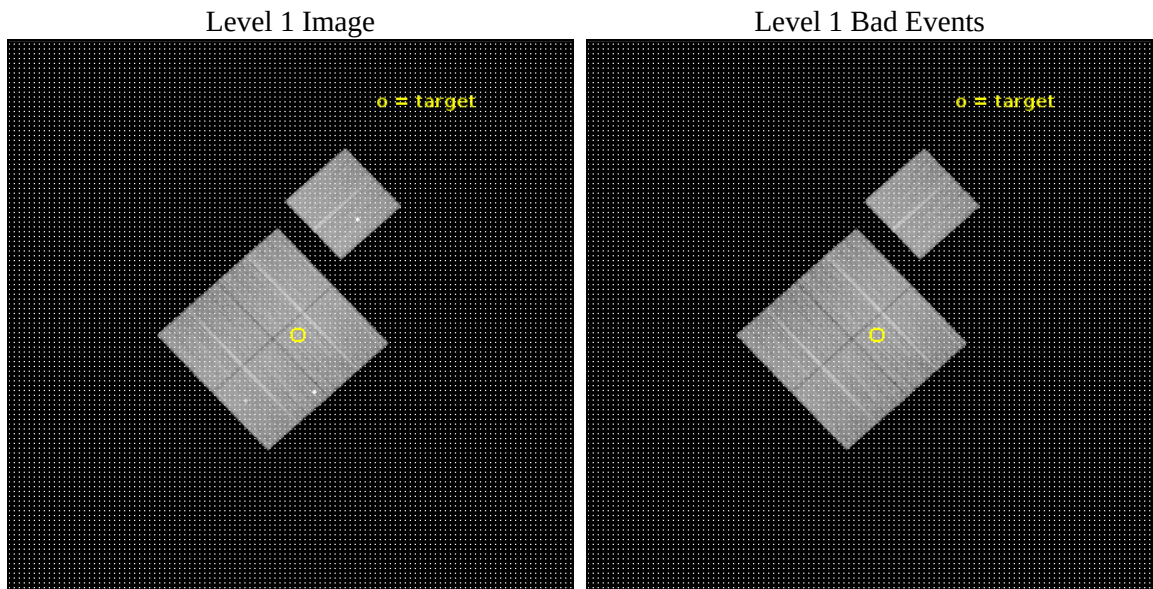
seq_num	801565	Sequence number
obs_id	19695	Observation id
title	Deep X-ray Observations of 3 exceptional high-z clusters of galaxies	
observer	Julie Hlavacek-Larrondo	Principal investigator
object	SPT-CLJ0000-5748	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.247917	Observer's specified target RA [deg]
dec_targ	-57.809194	Observer's specified target Dec [deg]
ra_nom	0.27587989011536	Nominal RA [deg]
dec_nom	-57.789446961087	Nominal Dec [deg]
roll_nom	47.232354514844	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26054.232813478	Sum of GTIs [s]
livetime	25713.815080922	Livetime [s]
ontime0	26054.109693527	Sum of GTIs [s]
ontime1	26054.150733471	Sum of GTIs [s]
ontime2	26047.909592986	Sum of GTIs [s]
ontime3	26054.232813478	Sum of GTIs [s]
ontime6	26050.92756331	Sum of GTIs [s]
l2events	78847	Number of level 2 events



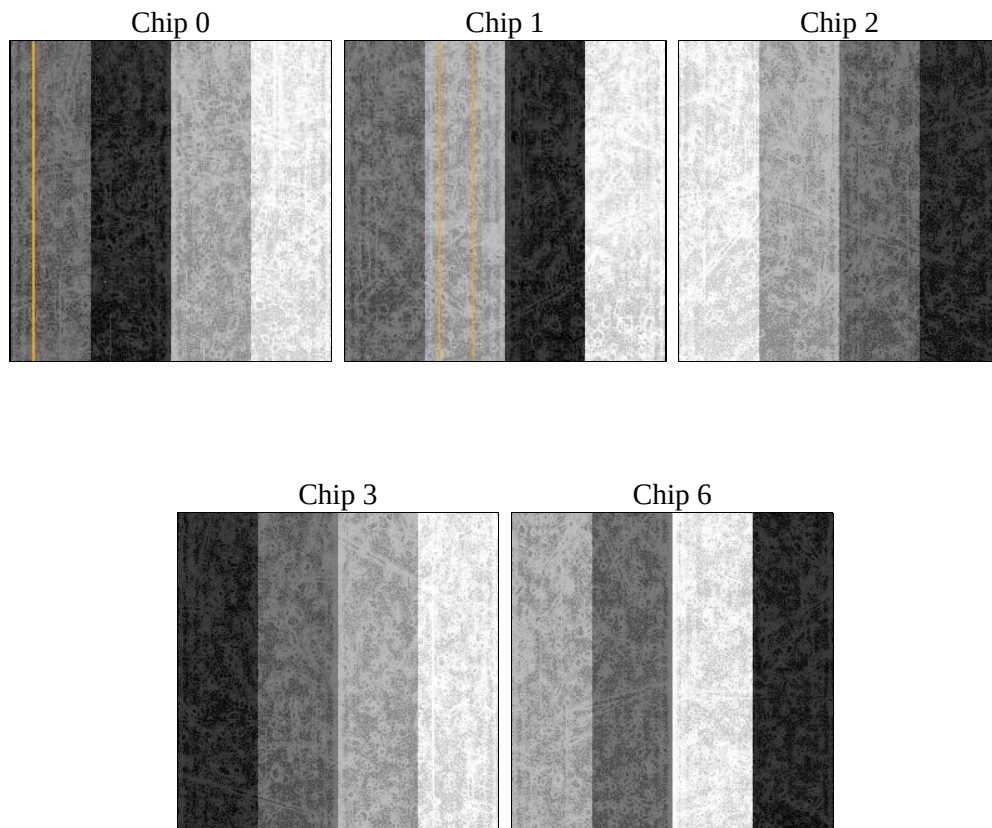
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	26054.232813478	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	26054.109693527	Sum of GTIs [s]
date	2016-08-25T11:34:33	Date and time of file creation	ontime1	26054.150733471	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26047.909592986	Sum of GTIs [s]
			ontime3	26054.232813478	Sum of GTIs [s]
			ontime6	26050.92756331	Sum of GTIs [s]
			l1events	853033	Number of level 1 events

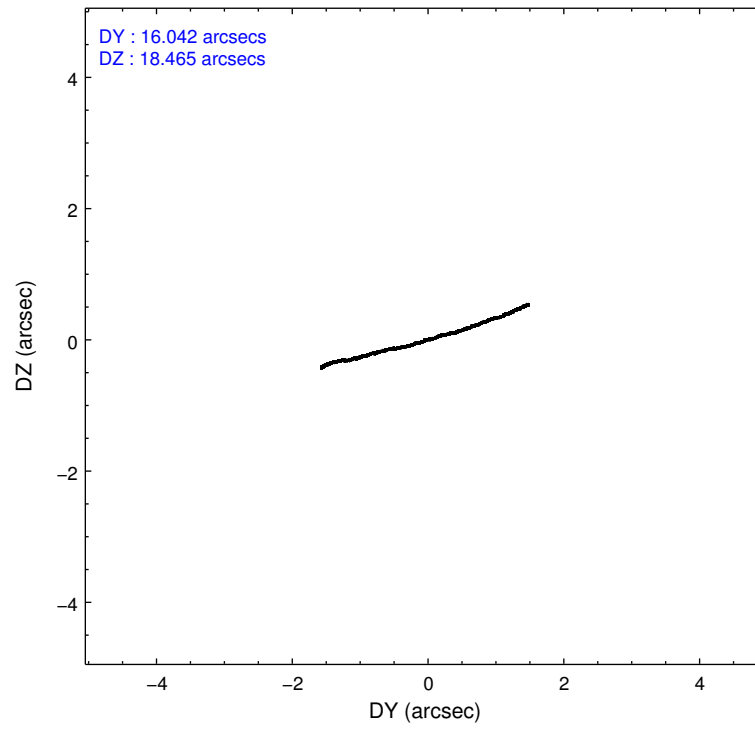
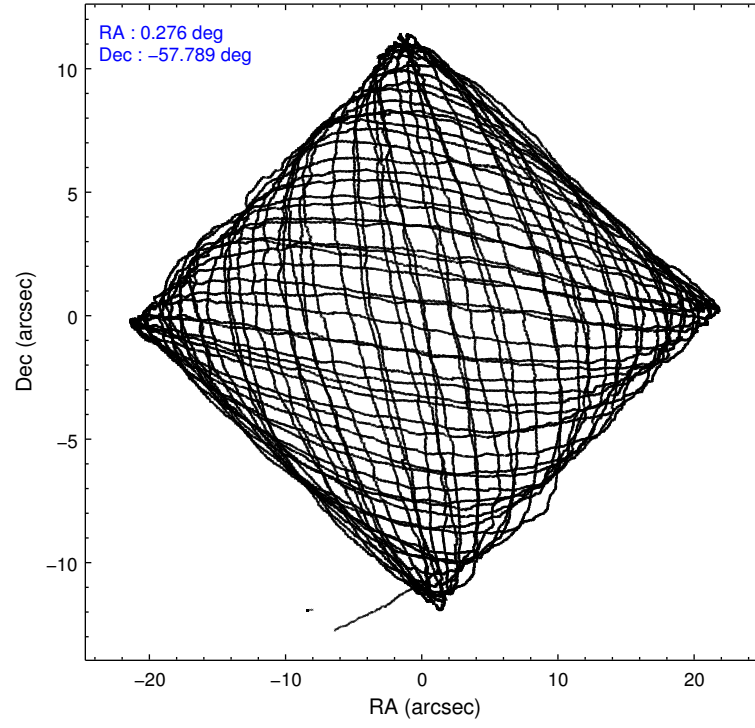
2.1.4 Events

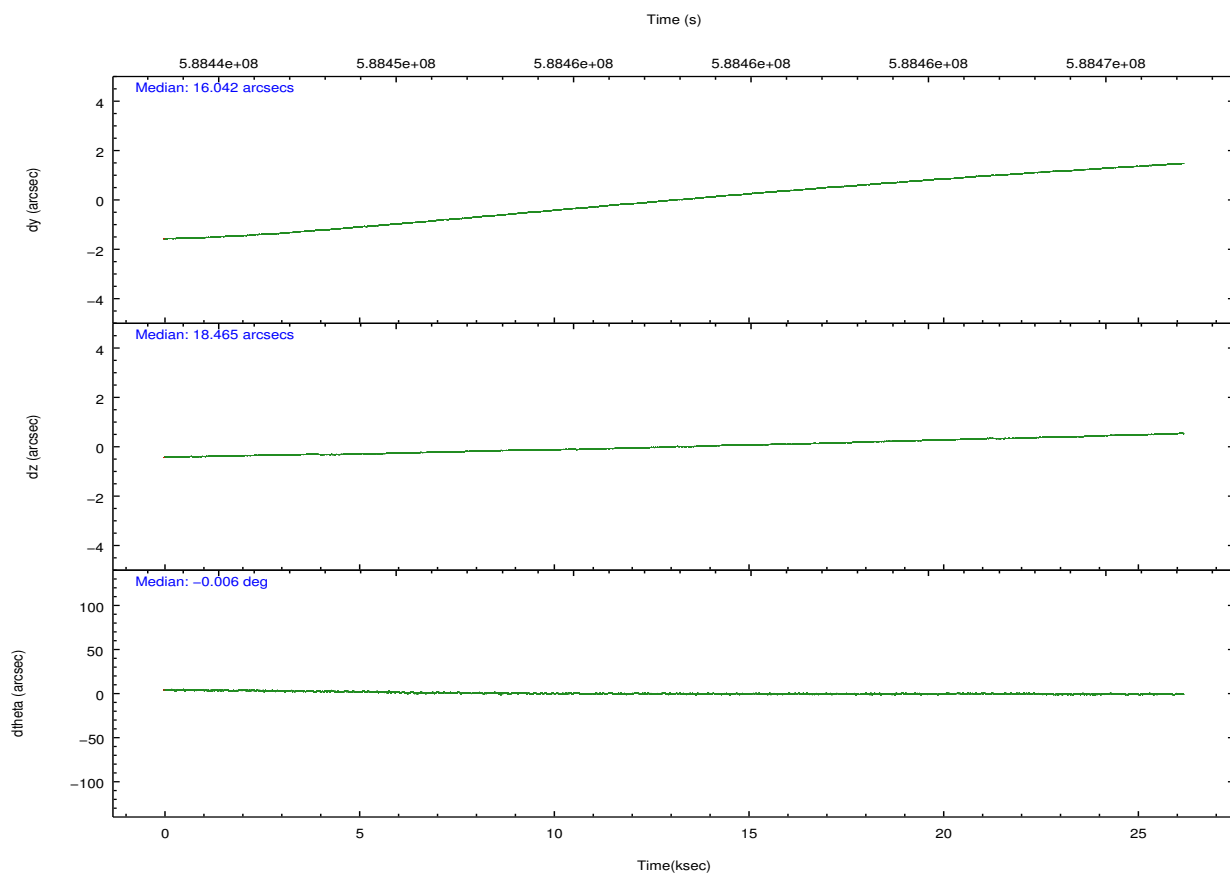
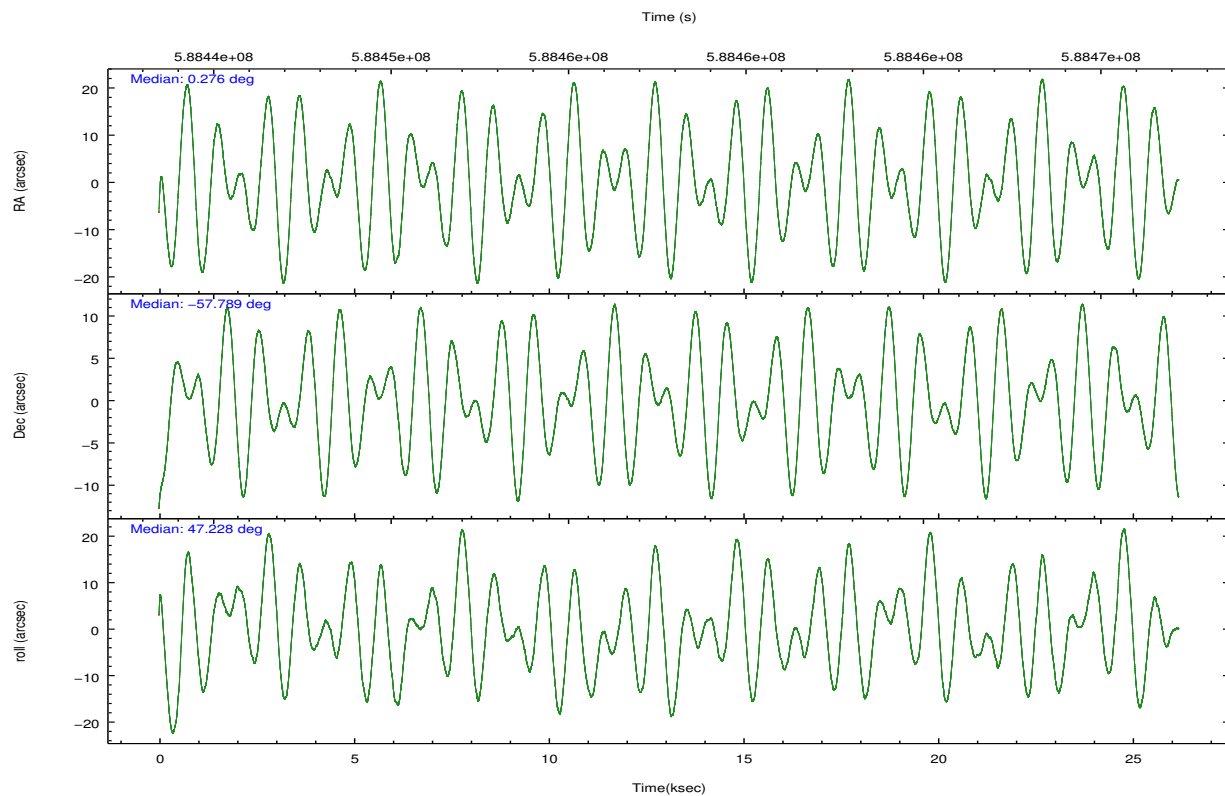
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	155481	171181	173830	168852	183689	grade 0 events	5998	15800	5884	6966	13823
rejected events	137520	141803	156576	150238	156981		3%	9%	3%	4%	7%
rejected %	88%	82%	90%	88%	85%	grade 1 events	87	118	105	87	107
							0%	0%	0%	0%	0%
						grade 2 events	4426	4921	4252	3907	4601
							2%	2%	2%	2%	2%
						grade 3 events	1859	1888	1767	1861	1839
							1%	1%	1%	1%	1%
						grade 4 events	1764	1937	1752	1955	1763
							1%	1%	1%	1%	0%
						grade 5 events	7006	7384	6574	8061	7314
							4%	4%	3%	4%	3%
						grade 6 events	3916	4838	3600	3926	4686
							2%	2%	2%	2%	2%
						grade 7 events	130425	134295	149896	142089	149556
							83%	78%	86%	84%	81%

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	0.264634	0.2758798901153625	CCD I2 on	Y	Y
[deg] Pointing Dec	-57.816380	-57.78944696108739	CCD I3 on	Y	Y
[deg] Pointing Roll	47.014153	47.23235451484401	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	-228.472463	-228.4808600833603	CCD S3 on	N	N
[mm] SIM translation stage offset	-5.12	-5.111592919569347	CCD S4 on	N	N
[s] Observation start time (MET)	588444899.184000	588443899.93156	CCD S5 on	N	N
Observation start date	2016-08-24T16:53:51	2016-08-24T16:38:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	588470899.184000	588471810.17066	On-chip summing requested	N	N
Observation end date	2016-08-25T00:07:11	2016-08-25T00:23:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



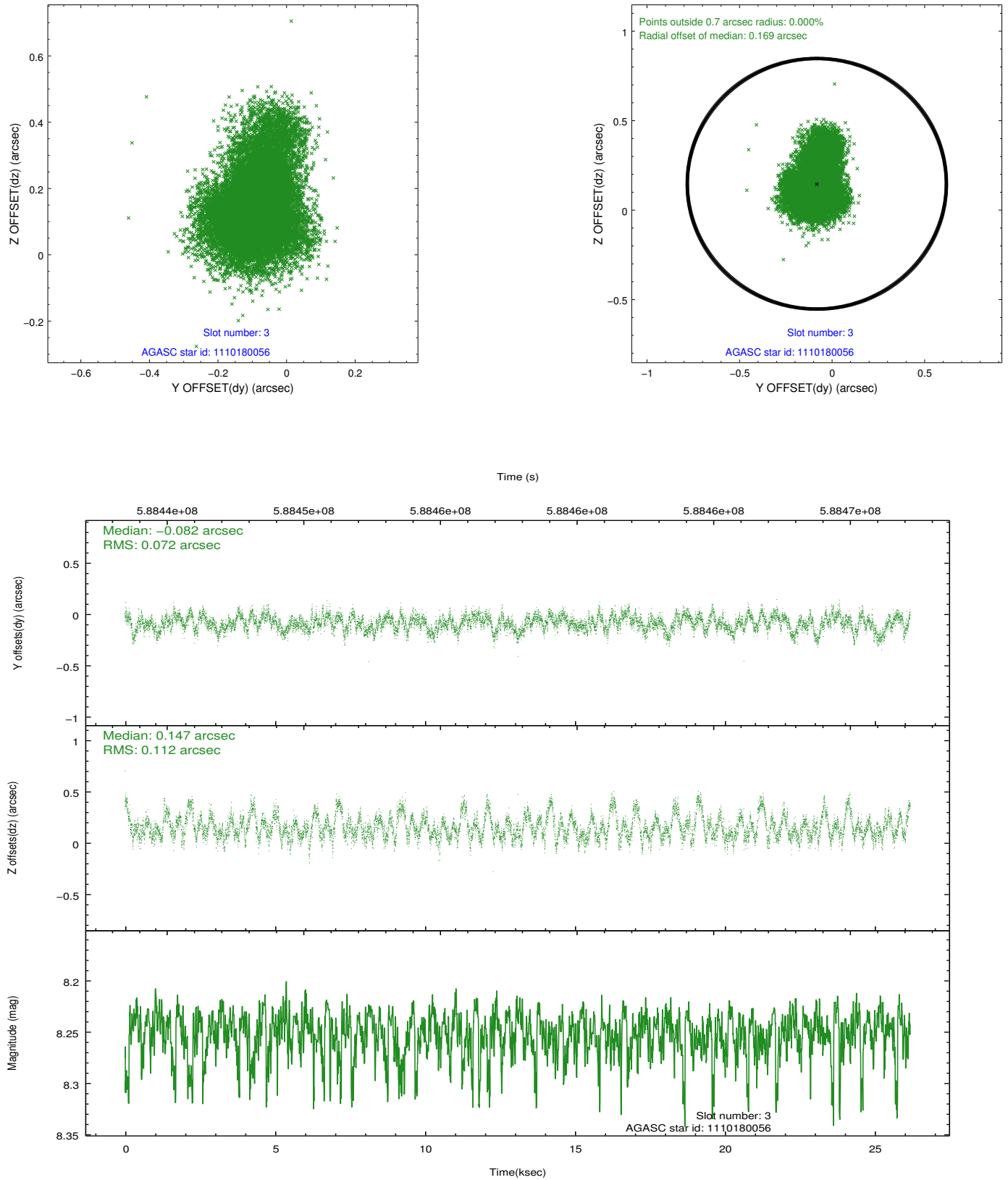


Slot Statistics

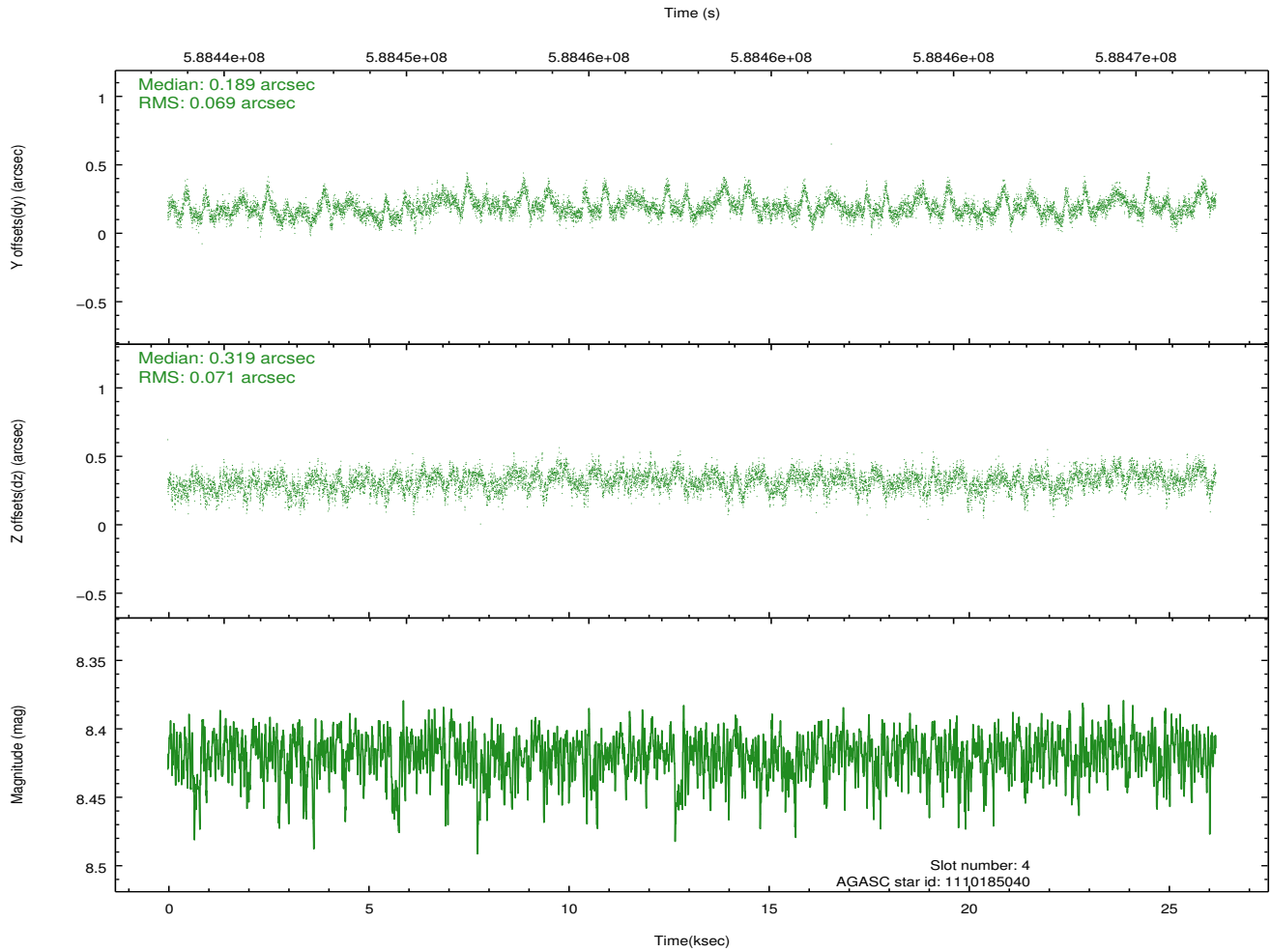
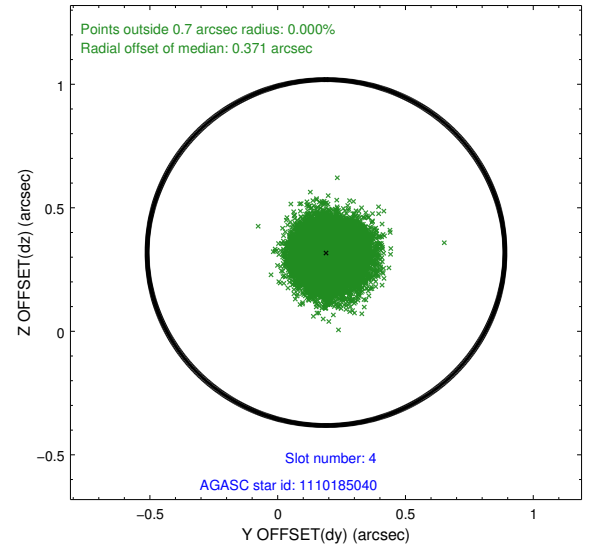
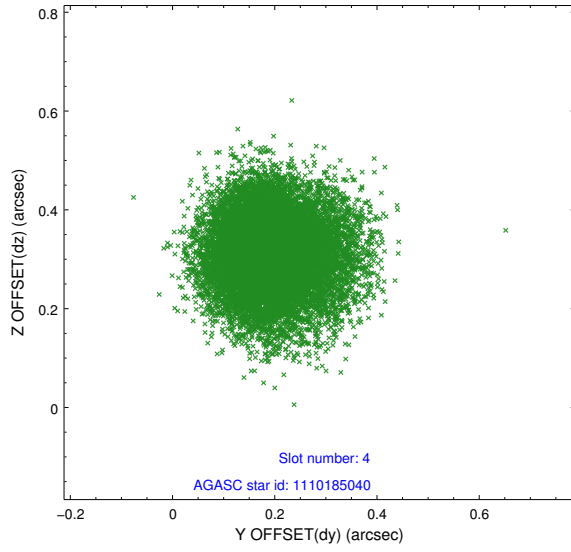
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	6388	0.108	-0.085	0.013	0.023	0.000000	0.000000	923.51	-947.10
1	FID		ACIS-I-5	7.25	6387	-0.369	0.057	0.013	0.025	0.000000	0.000000	-1825.15	950.27
2	FID		ACIS-I-6	7.27	6388	0.172	0.098	0.015	0.030	0.000000	0.000000	388.83	1595.10
3	GUIDE	used	1110180056	8.25	12773	-0.082	0.147	0.137	0.239	0.679636	-57.633667	1024.27	-137.84
4	GUIDE	used	1110185040	8.42	12773	0.189	0.319	0.105	0.172	0.334642	-58.580271	-1921.65	-1970.99
5	GUIDE	used	1158553656	9.46	12757	0.026	-0.026	0.171	0.268	359.738396	-57.783236	-603.08	816.67
6	GUIDE	used	1158554544	9.63	12762	0.076	-0.339	0.254	0.438	359.171758	-57.656252	-1025.78	1920.86
7	GUIDE	used	1110180416	9.32	12766	-0.221	-0.083	0.154	0.265	0.633004	-57.667068	875.23	-153.47

2.4 Star Slots

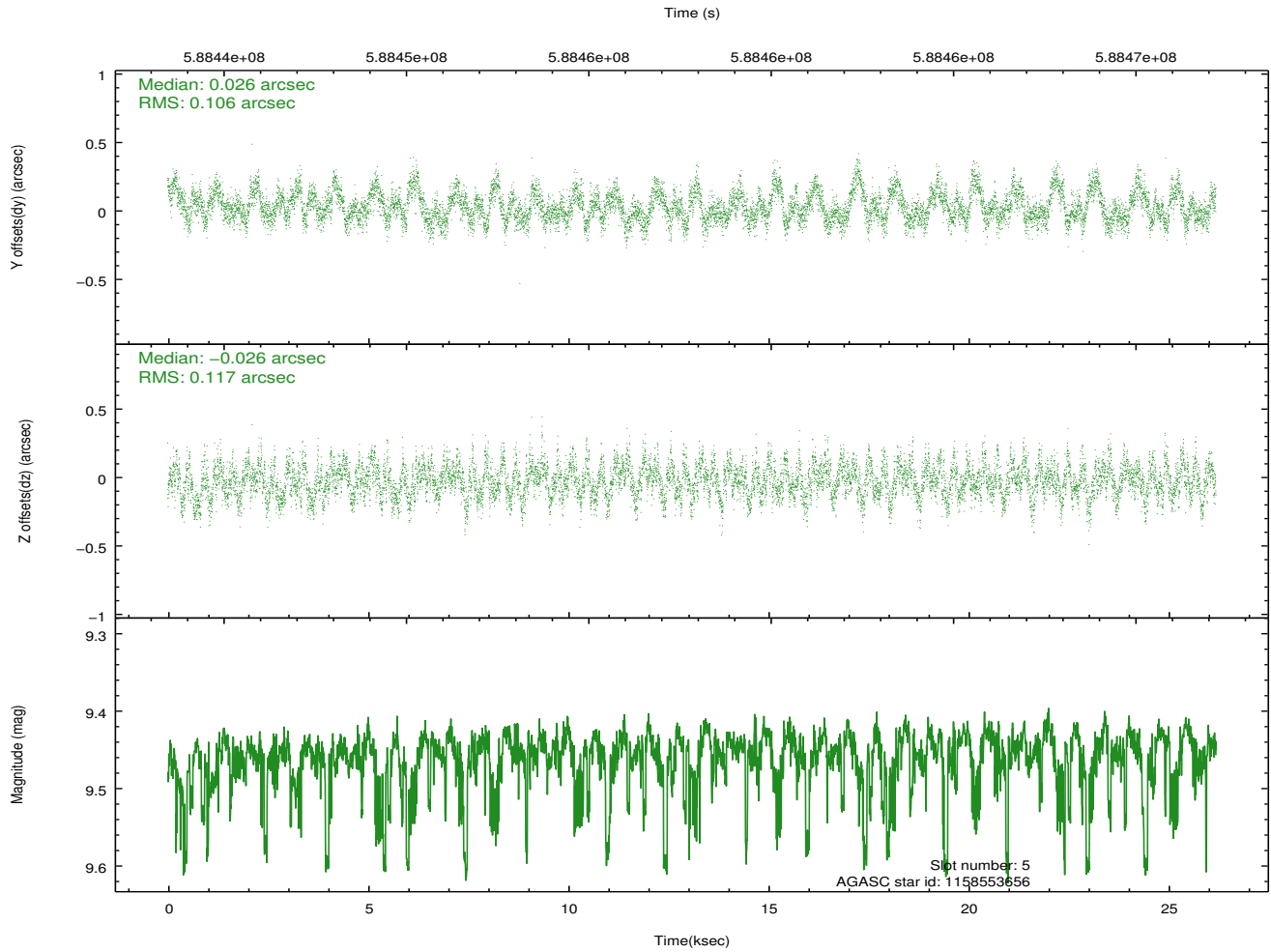
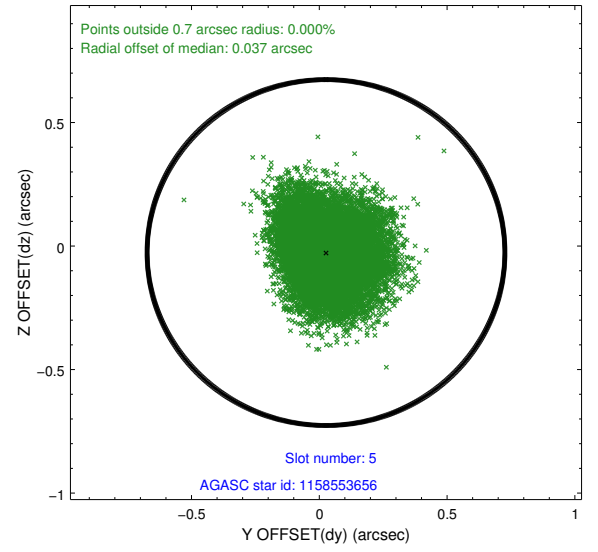
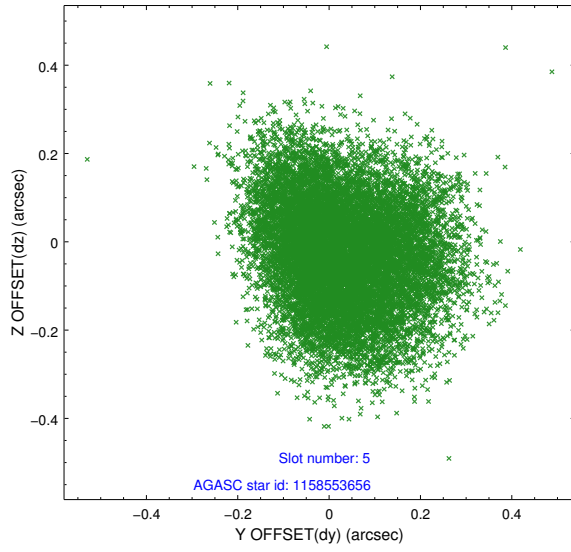
2.4.1 Slot 3



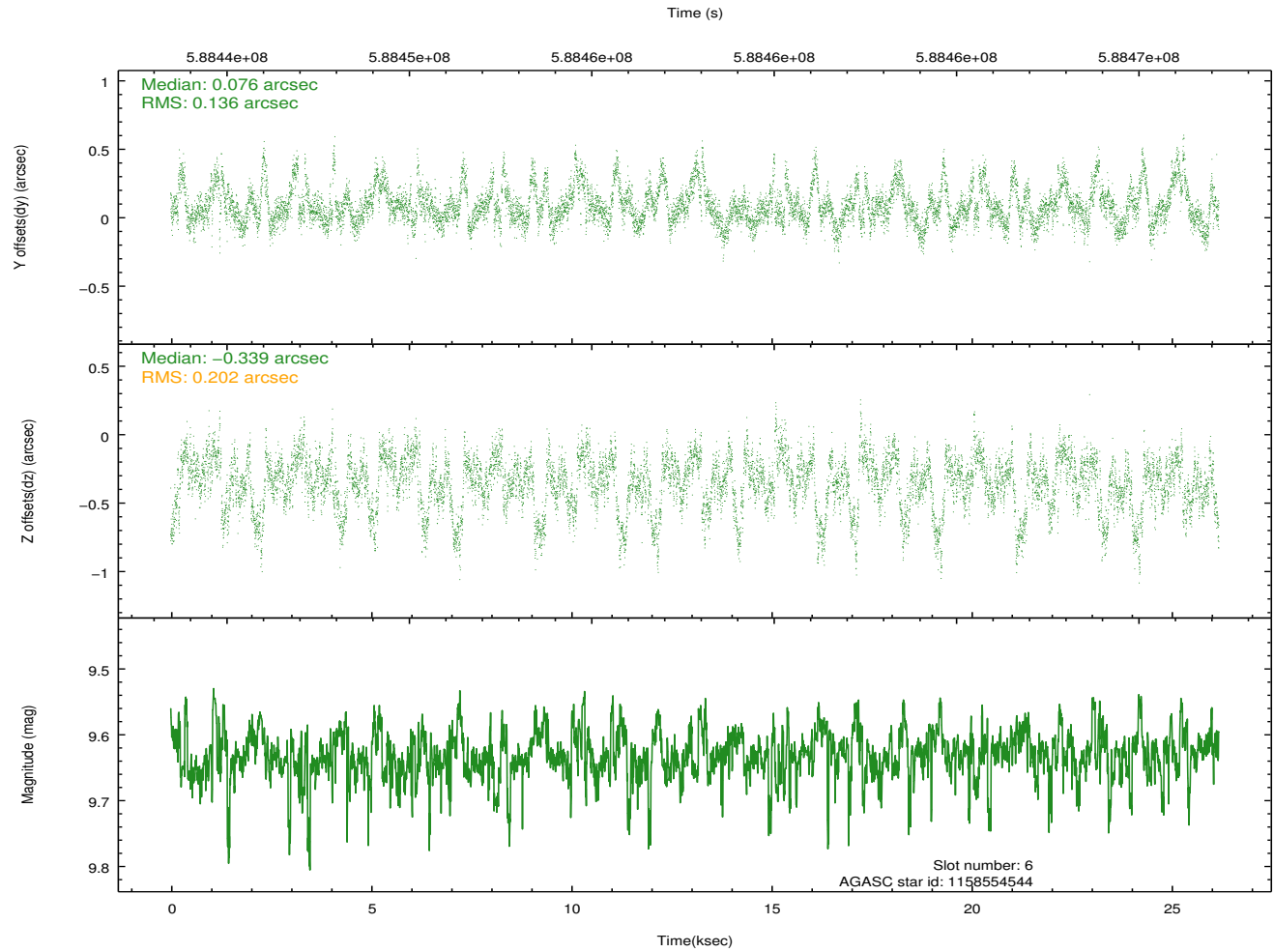
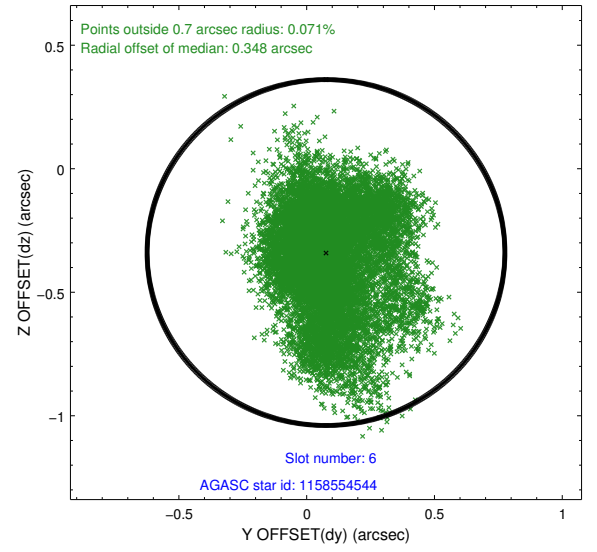
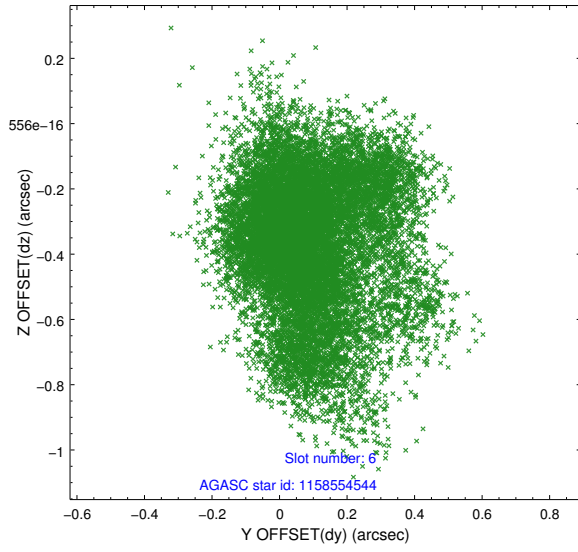
2.4.2 Slot 4



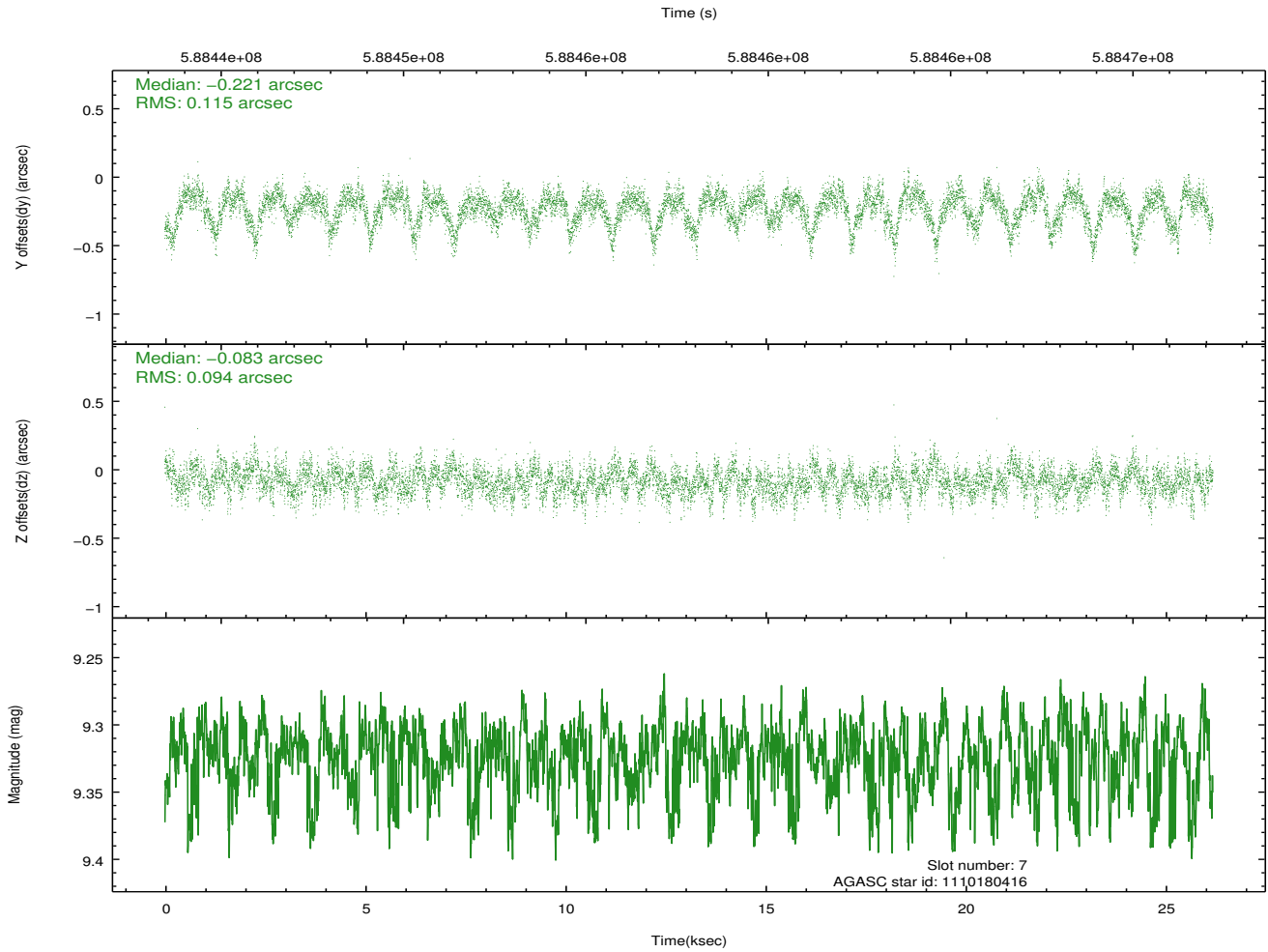
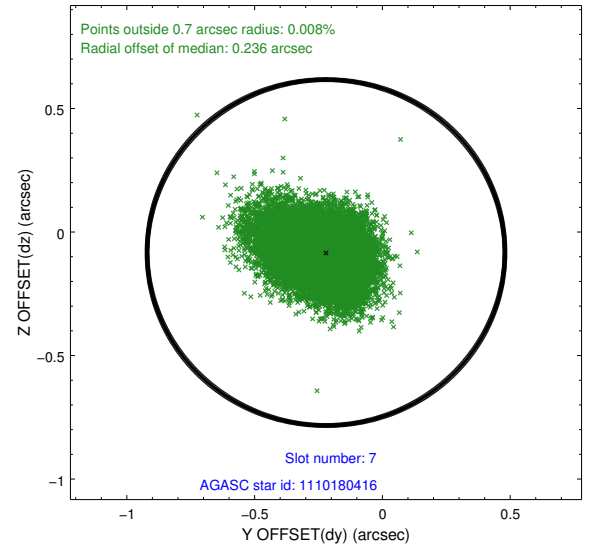
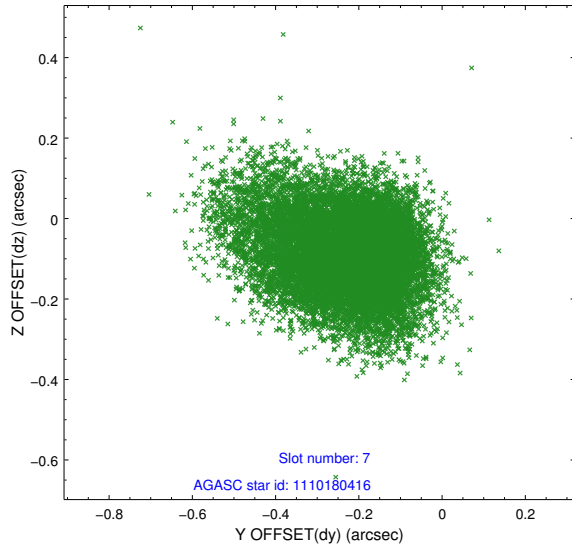
2.4.3 Slot 5



2.4.4 Slot 6

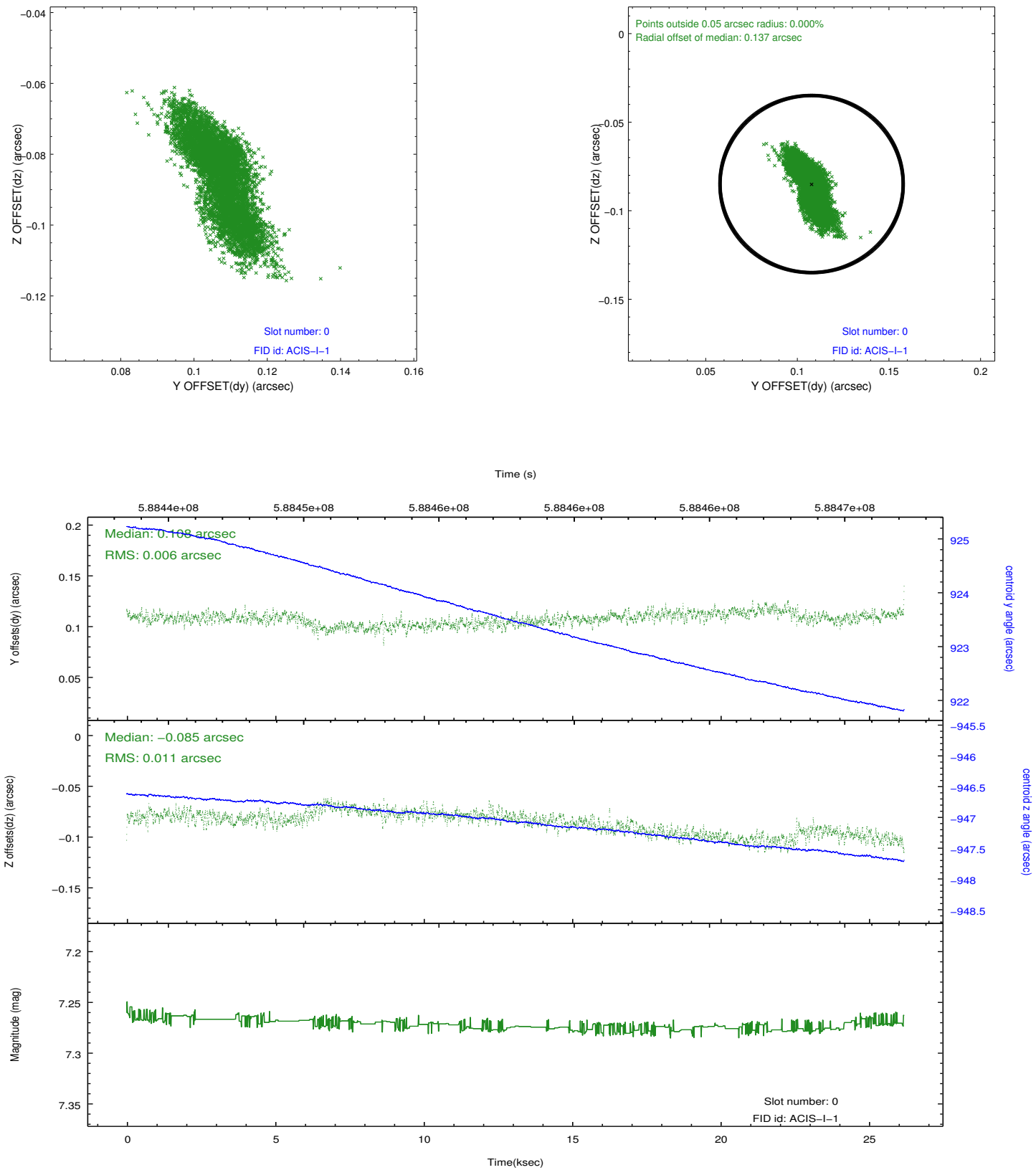


2.4.5 Slot 7

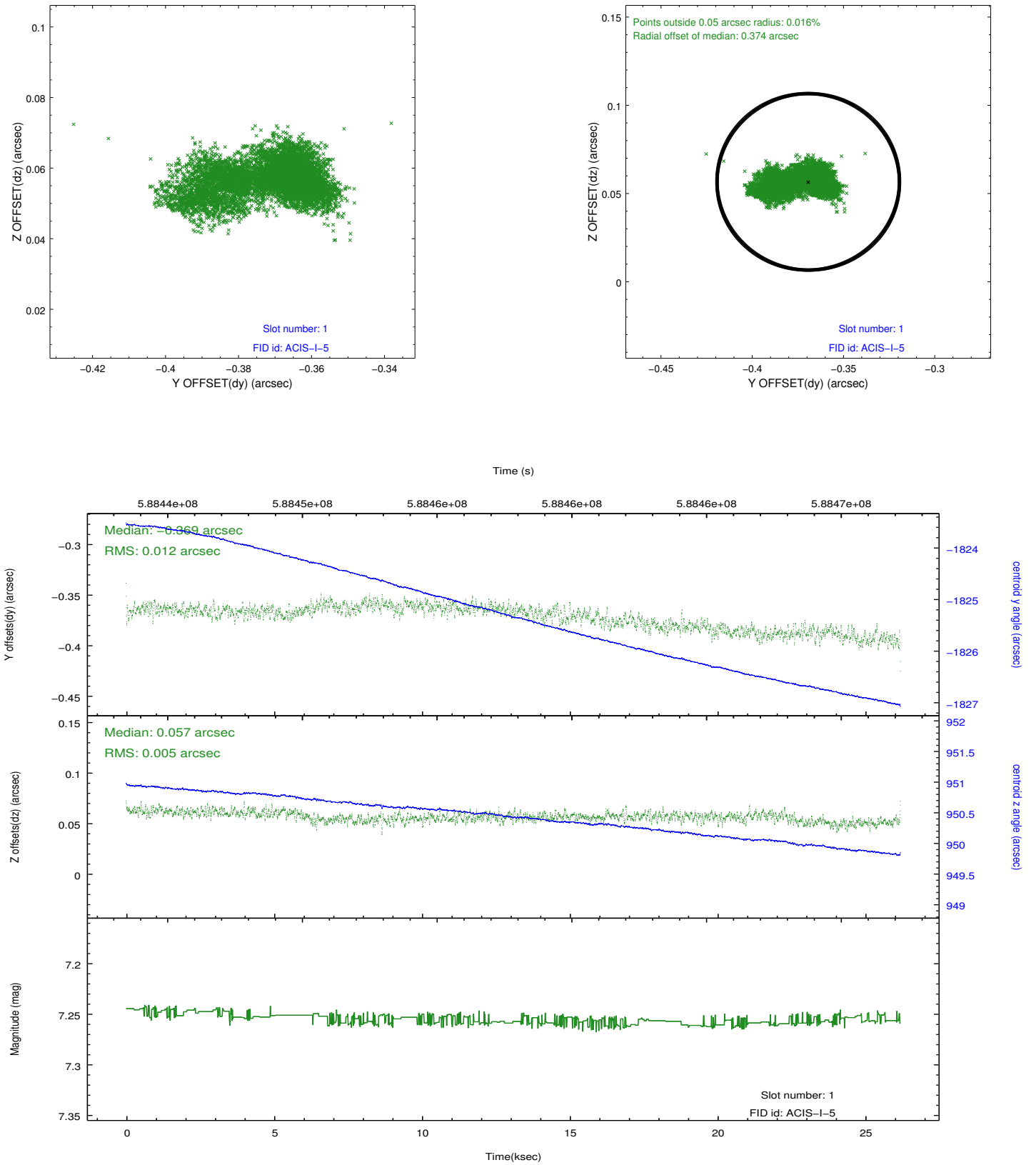


2.5 FID Slots

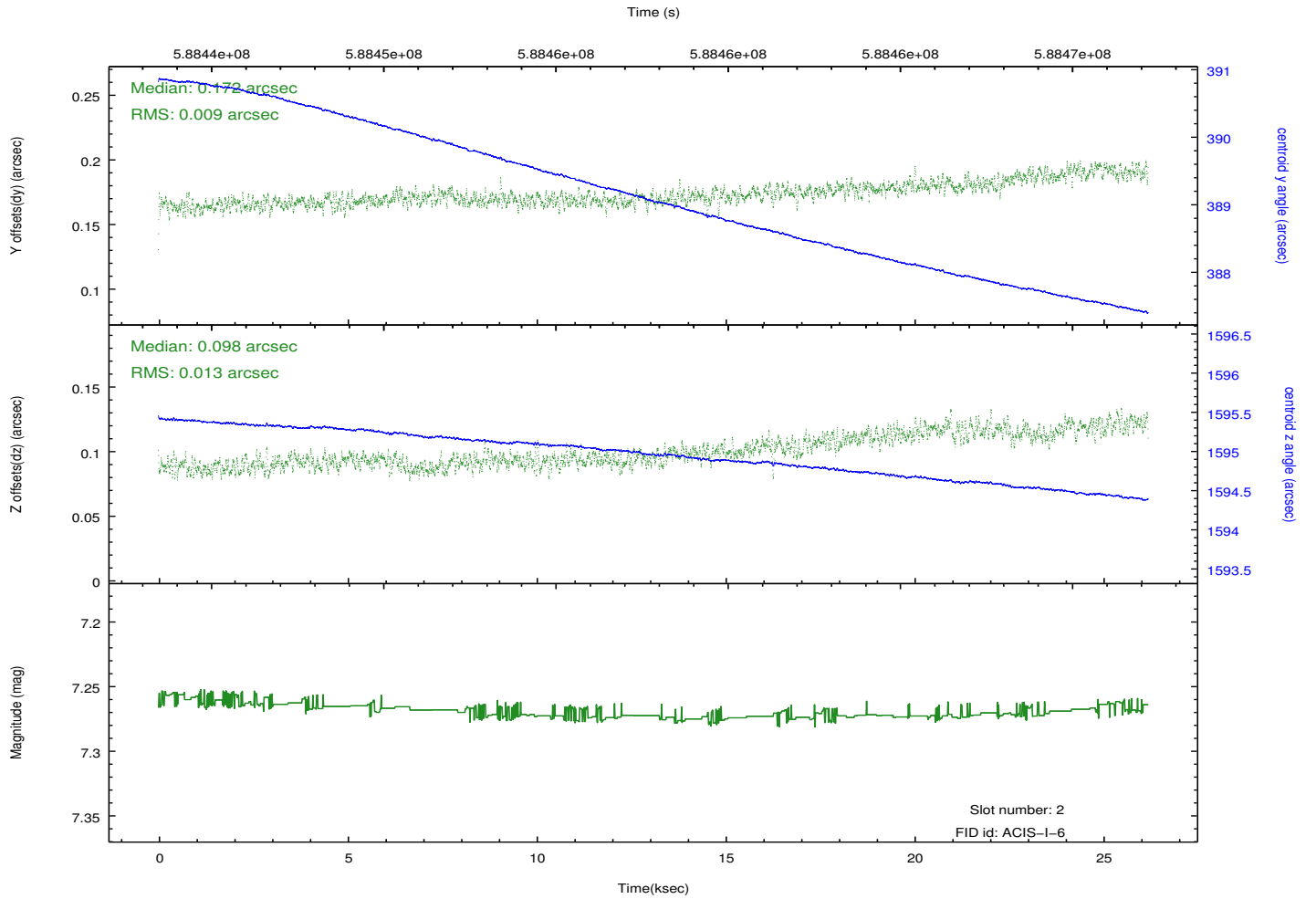
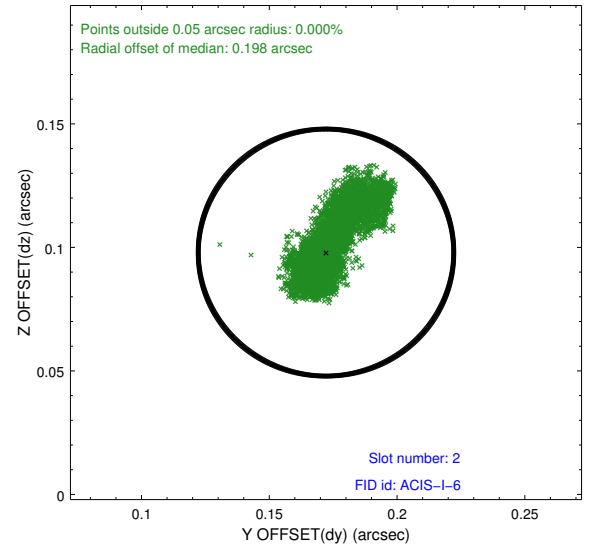
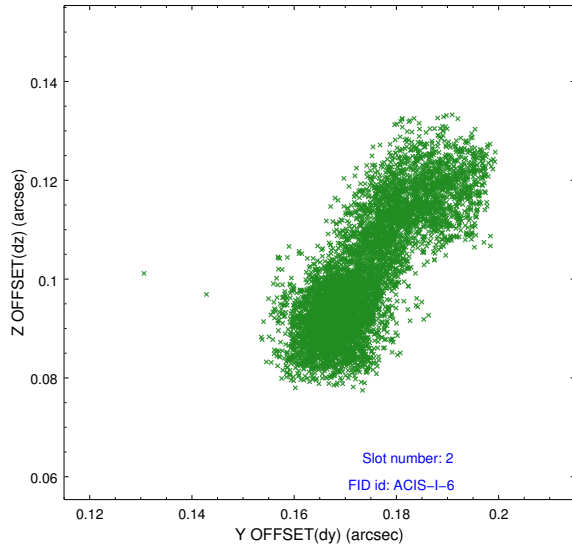
2.5.1 Slot 0



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)	2016.08.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.054232813478

A.2 Comments