

V&V Reference Report

L2 ASCDS Version : 10.3

Observation 16293 - L2 Version 1
Chandra X-Ray Center

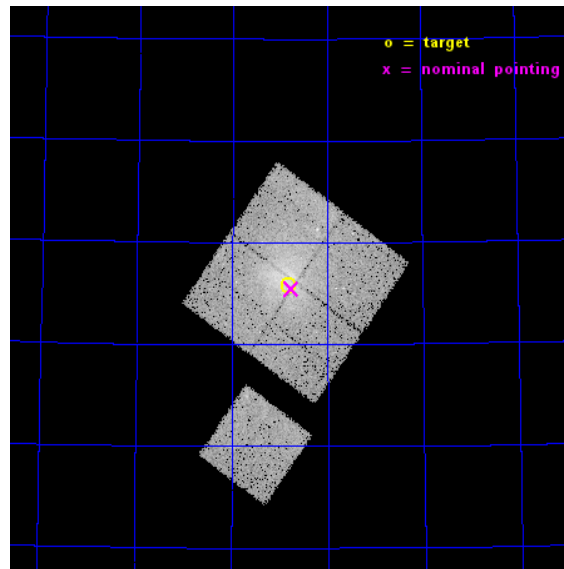
L2 Processing Date : Nov 28 2014

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

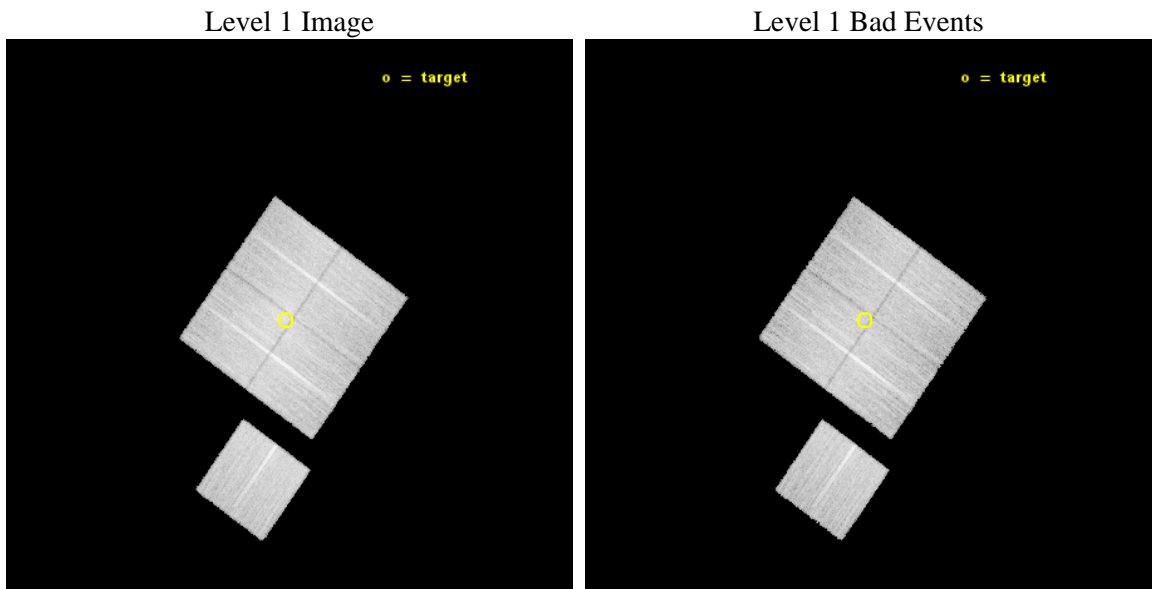
seq_num	801429	Sequence number
obs_id	16293	Observation id
title	Chandra observations of two double radio relic clusters	Proposal t
observer	Dr. Stephen Murray	Principal investigator
object	1RXS J021649.0+703552	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	34.204167	Observer's specified target RA [deg]
dec_targ	70.597778	Observer's specified target Dec [deg]
ra_nom	34.189311346573	Nominal RA [deg]
dec_nom	70.591249648928	Nominal Dec [deg]
roll_nom	215.59836863001	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25081.397641957	Sum of GTIs [s]
livetime	24753.690717108	Livetime [s]
ontime0	25081.274521947	Sum of GTIs [s]
ontime1	25081.31556195	Sum of GTIs [s]
ontime2	25081.356601954	Sum of GTIs [s]
ontime3	25081.397641957	Sum of GTIs [s]
ontime6	25081.233481944	Sum of GTIs [s]
l2events	84192	Number of level 2 events



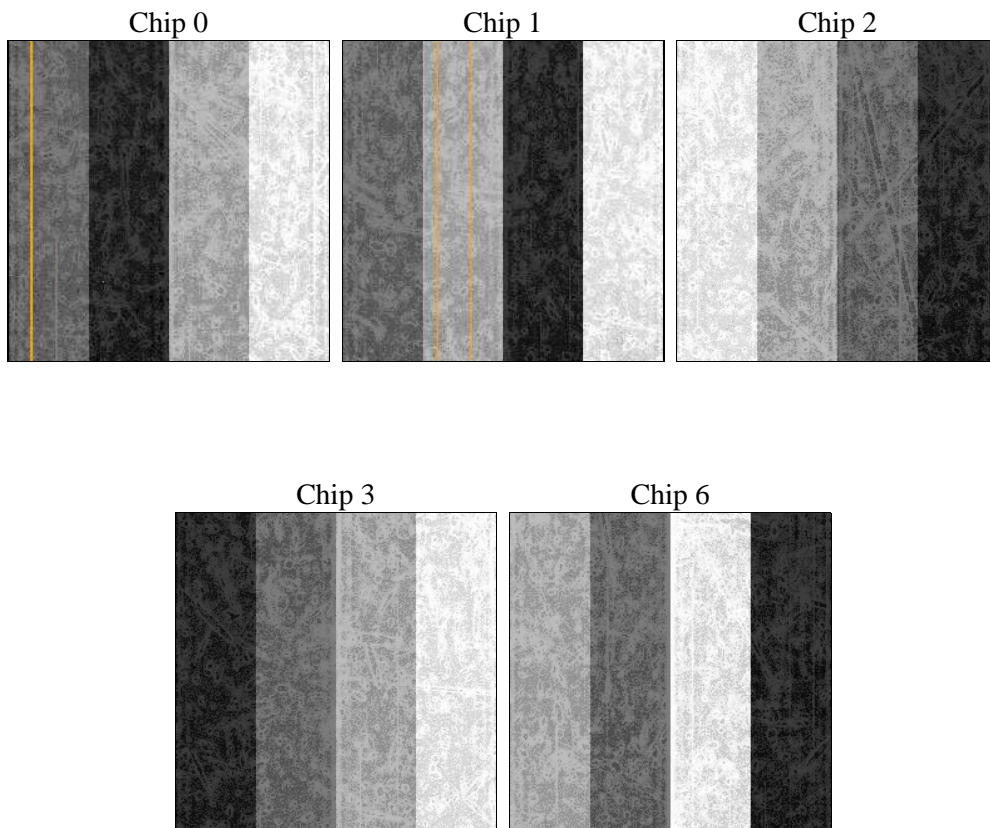
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25081.397641957	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	25081.274521947	Sum of GTIs [s]
date	2014-11-29T01:49:53	Date and time of file creation	ontime1	25081.31556195	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25081.356601954	Sum of GTIs [s]
			ontime3	25081.397641957	Sum of GTIs [s]
			ontime6	25081.233481944	Sum of GTIs [s]
			l1events	652360	Number of level 1 events

2.1.4 Events

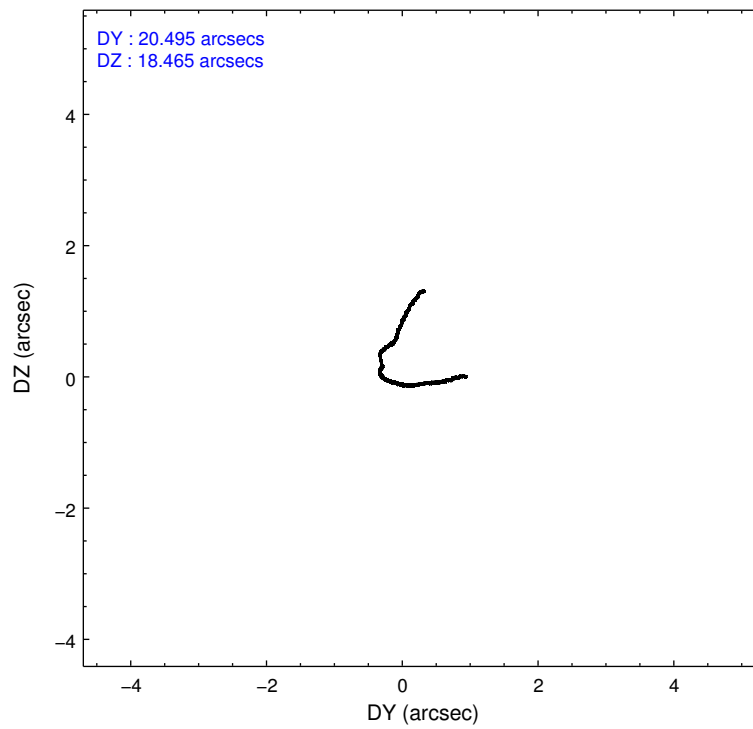
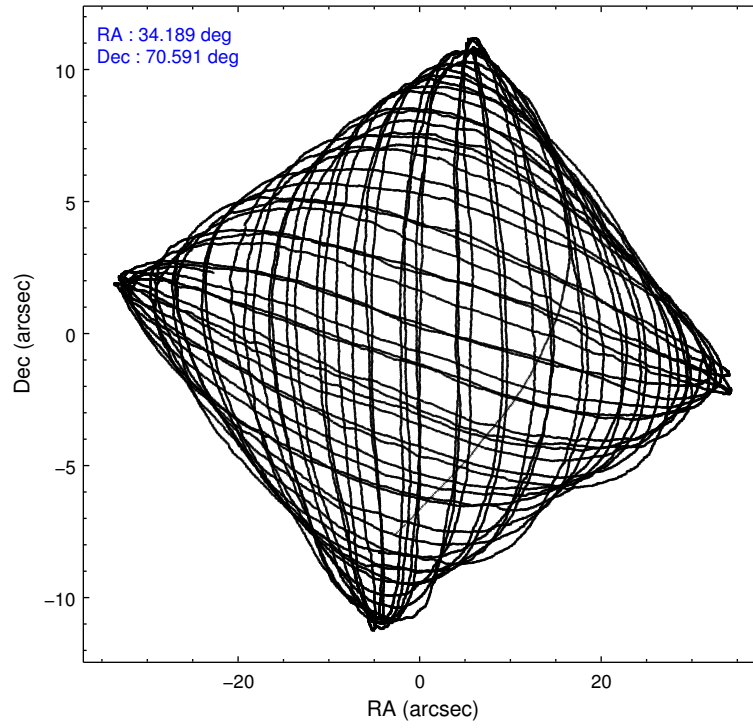
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	121746	129058	136640	135512	129404
rejected events	103740	104489	118855	114378	113792
rejected %	85%	80%	86%	84%	87%

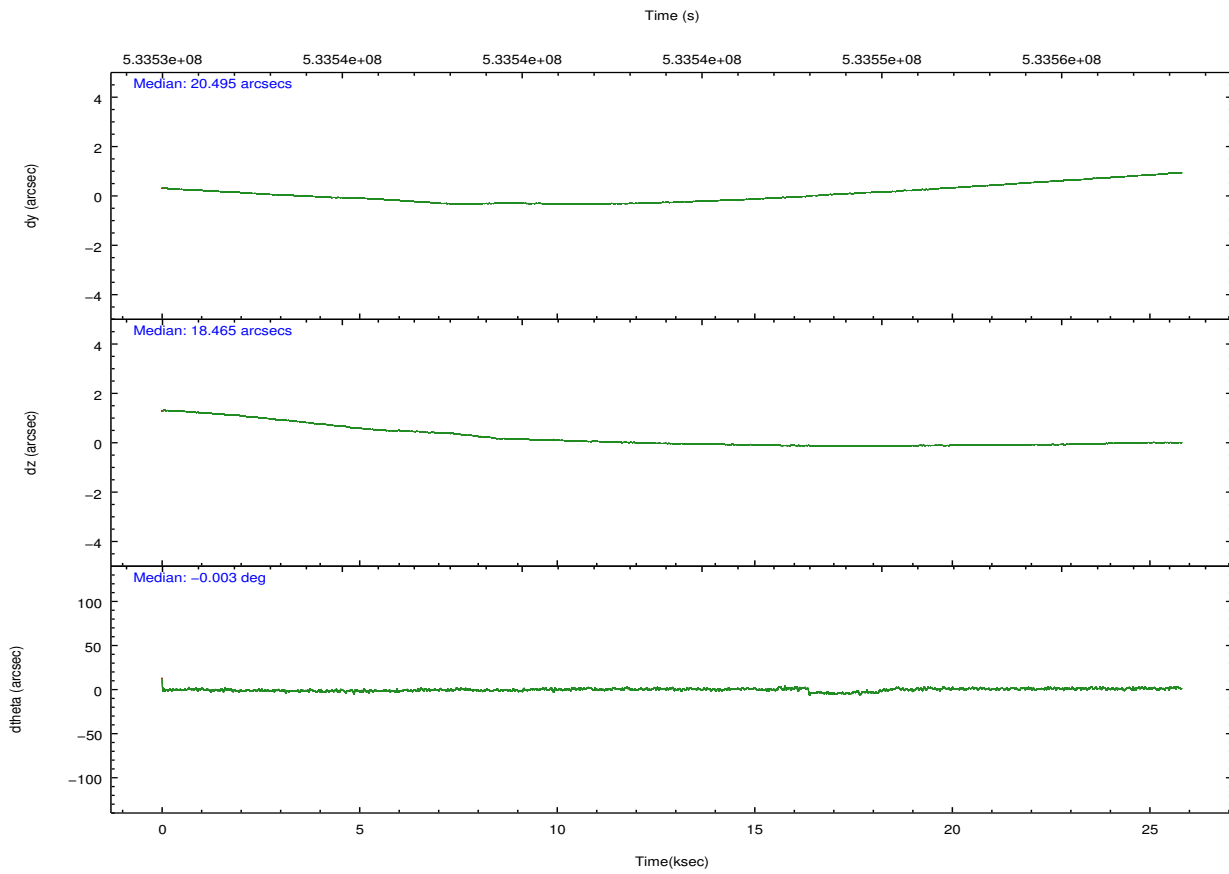
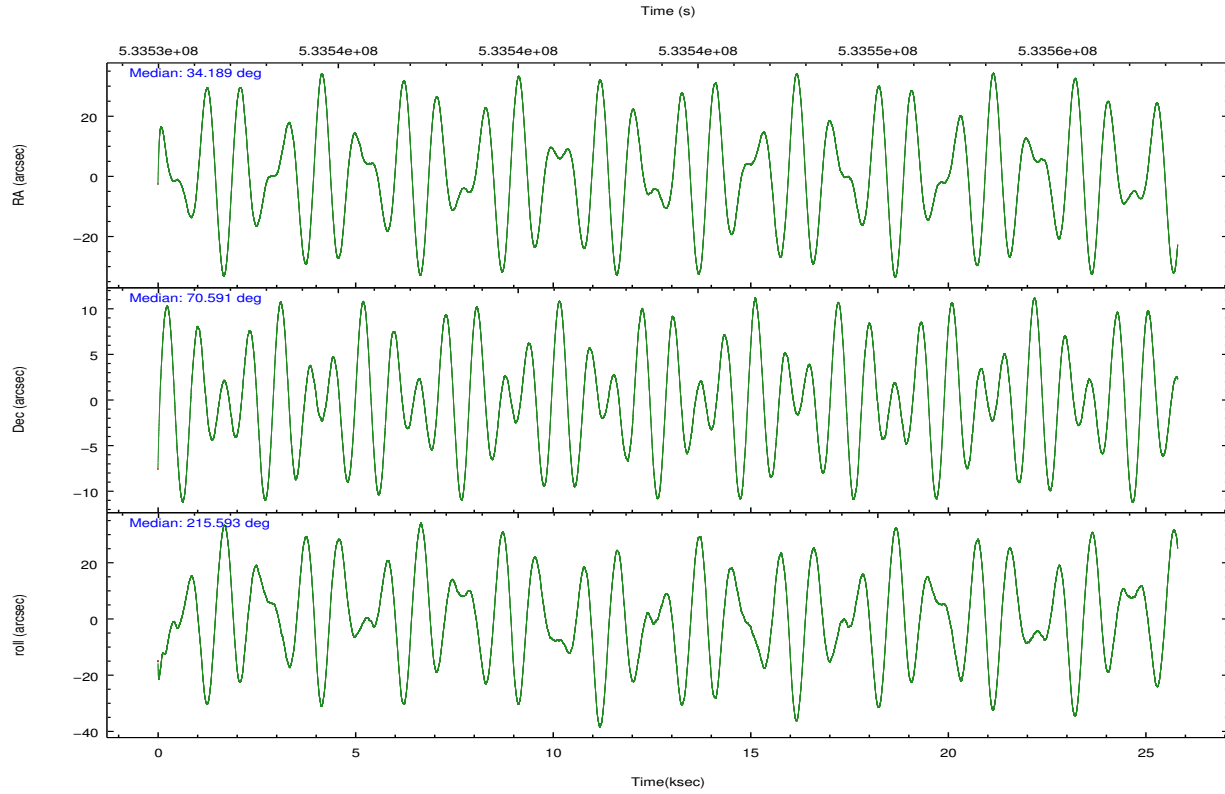
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7056	11463	7402	10064	5124
	5%	8%	5%	7%	3%
grade 1 events	91	94	81	92	81
	0%	0%	0%	0%	0%
grade 2 events	4255	5144	4038	3986	3537
	3%	3%	2%	2%	2%
grade 3 events	1667	1963	1676	1804	1666
	1%	1%	1%	1%	1%
grade 4 events	1656	1961	1579	1814	1620
	1%	1%	1%	1%	1%
grade 5 events	6088	6669	6019	7158	6608
	5%	5%	4%	5%	5%
grade 6 events	3376	4043	3094	3472	3668
	2%	3%	2%	2%	2%
grade 7 events	97557	97721	112751	107122	107100
	80%	75%	82%	79%	82%

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	34.223422	34.18931134657328	CCD I2 on	Y	Y
[deg] Pointing Dec	70.616410	70.59124964892787	CCD I3 on	Y	Y
[deg] Pointing Roll	215.357515	215.5983686300125	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)	533532069.184000	533530281.13883	CCD S5 on	N	N
Observation start date	2014-11-28T03:20:02	2014-11-28T02:51:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	533557069.184000	533557512.82785	On-chip summing requested	N	N
Observation end date	2014-11-28T10:16:42	2014-11-28T10:25:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



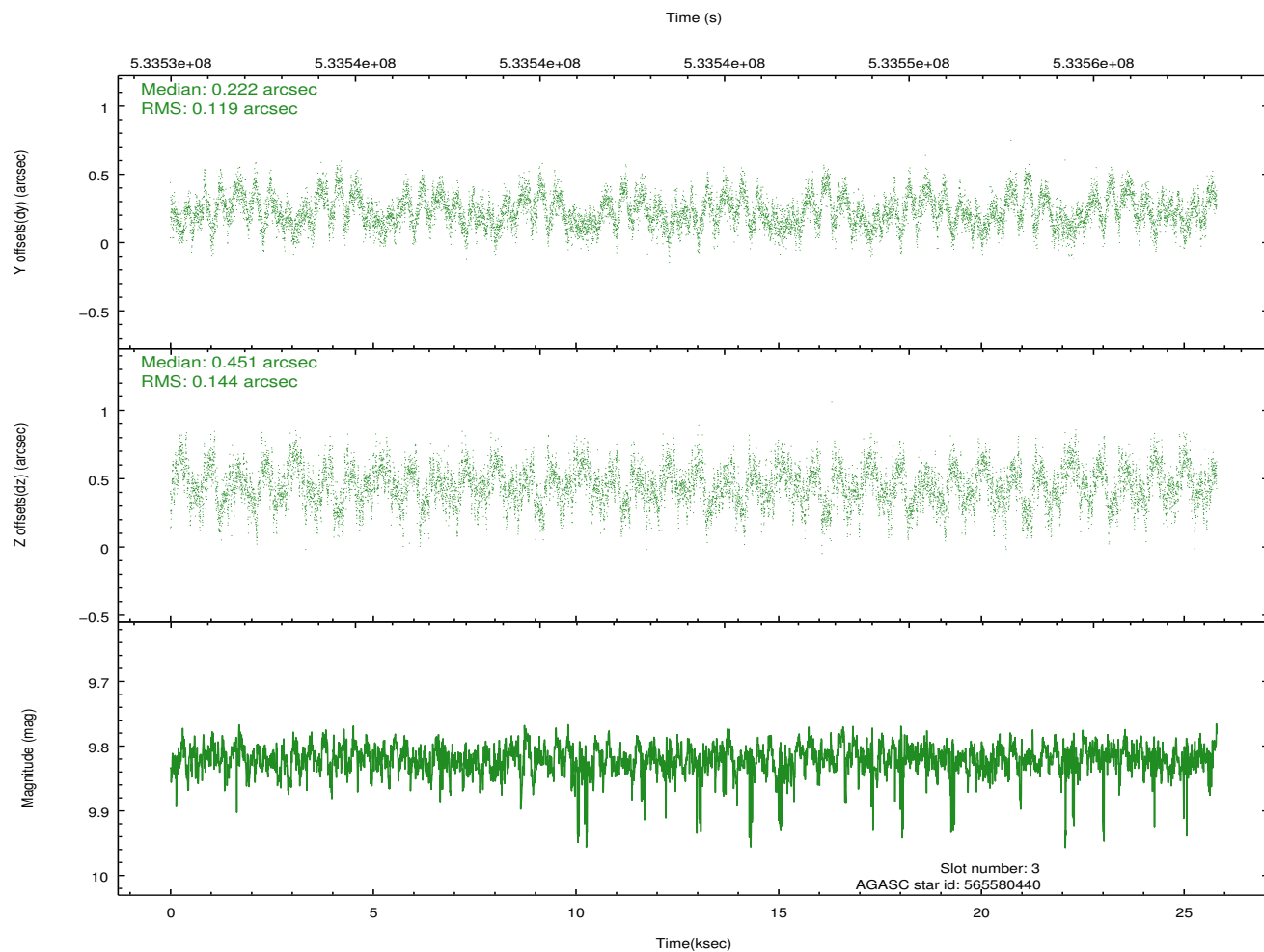
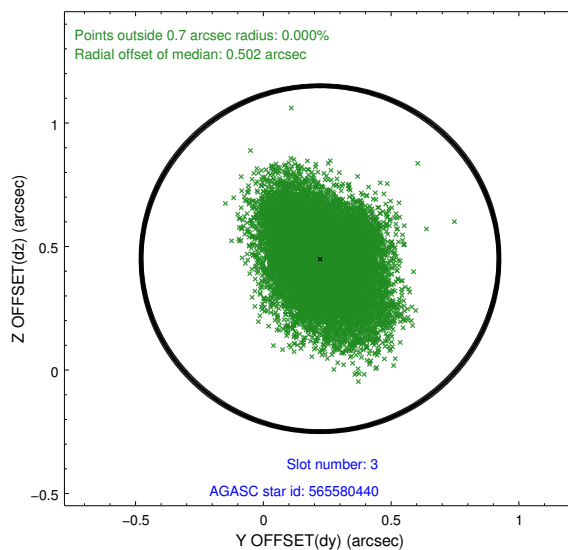
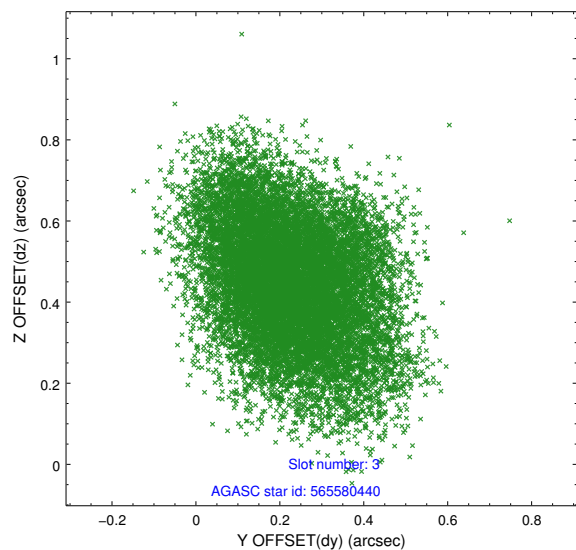


Slot Statistics

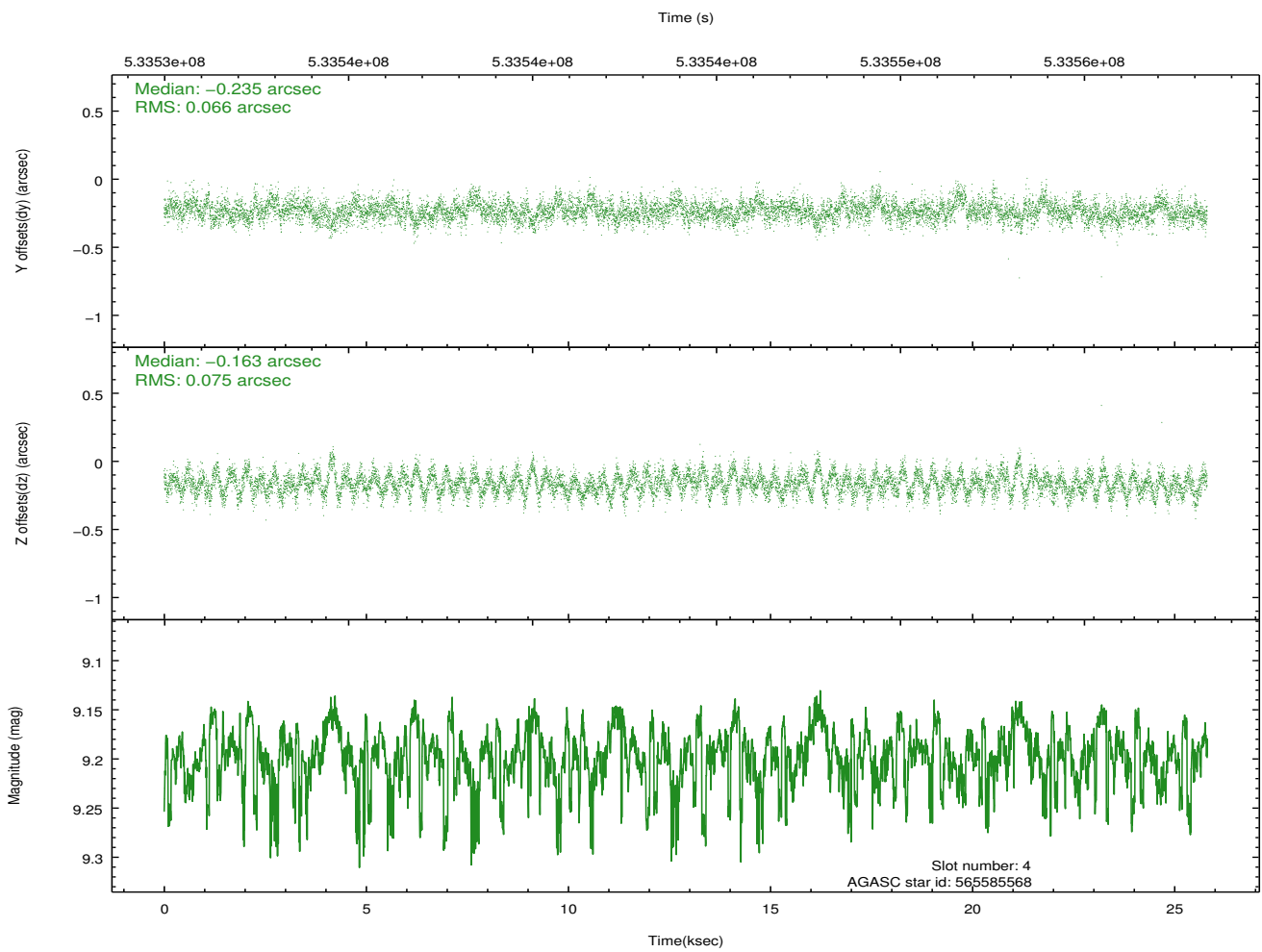
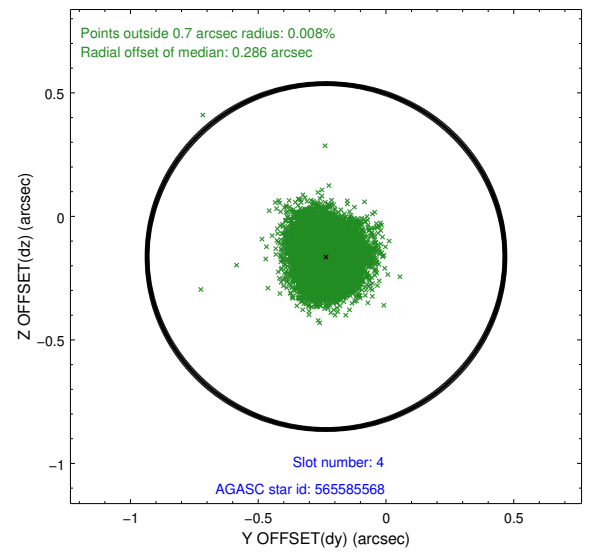
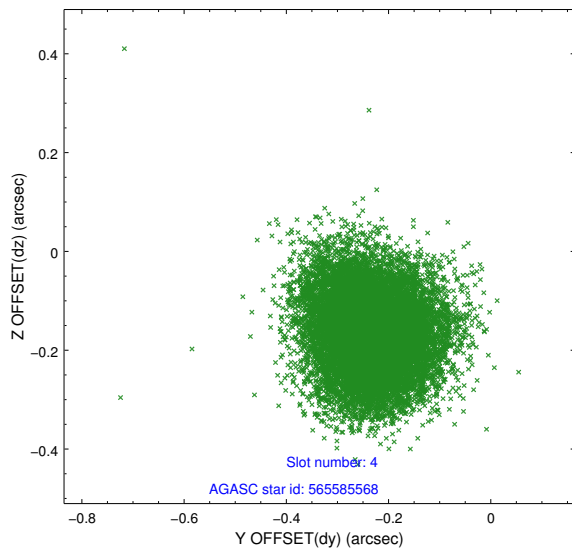
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	6296	-0.078	0.046	0.015	0.030	0.000000	0.000000	918.67	-842.31
1	FID		ACIS-I-2	6.99	6296	-0.180	-0.116	0.010	0.018	0.000000	0.000000	-775.46	-849.00
2	FID		ACIS-I-4	7.03	6295	0.160	0.138	0.012	0.024	0.000000	0.000000	2138.71	1057.55
3	GUIDE	used	565580440	9.82	12573	0.222	0.451	0.200	0.324	34.271888	71.175907	-1210.63	-1609.60
4	GUIDE	used	565585568	9.20	12571	-0.235	-0.163	0.107	0.171	33.530415	69.876176	2239.10	1672.81
5	GUIDE	used	565587096	8.49	12586	-0.072	-0.073	0.084	0.137	35.415806	70.423534	-779.10	1387.62
6	GUIDE	used	565588200	8.95	12580	0.004	-0.139	0.126	0.196	34.106758	70.492741	372.10	282.02
7	GUIDE	used	565718416	9.01	12588	0.073	-0.074	0.104	0.173	36.445633	70.583622	-2128.12	1595.20

2.4 Star Slots

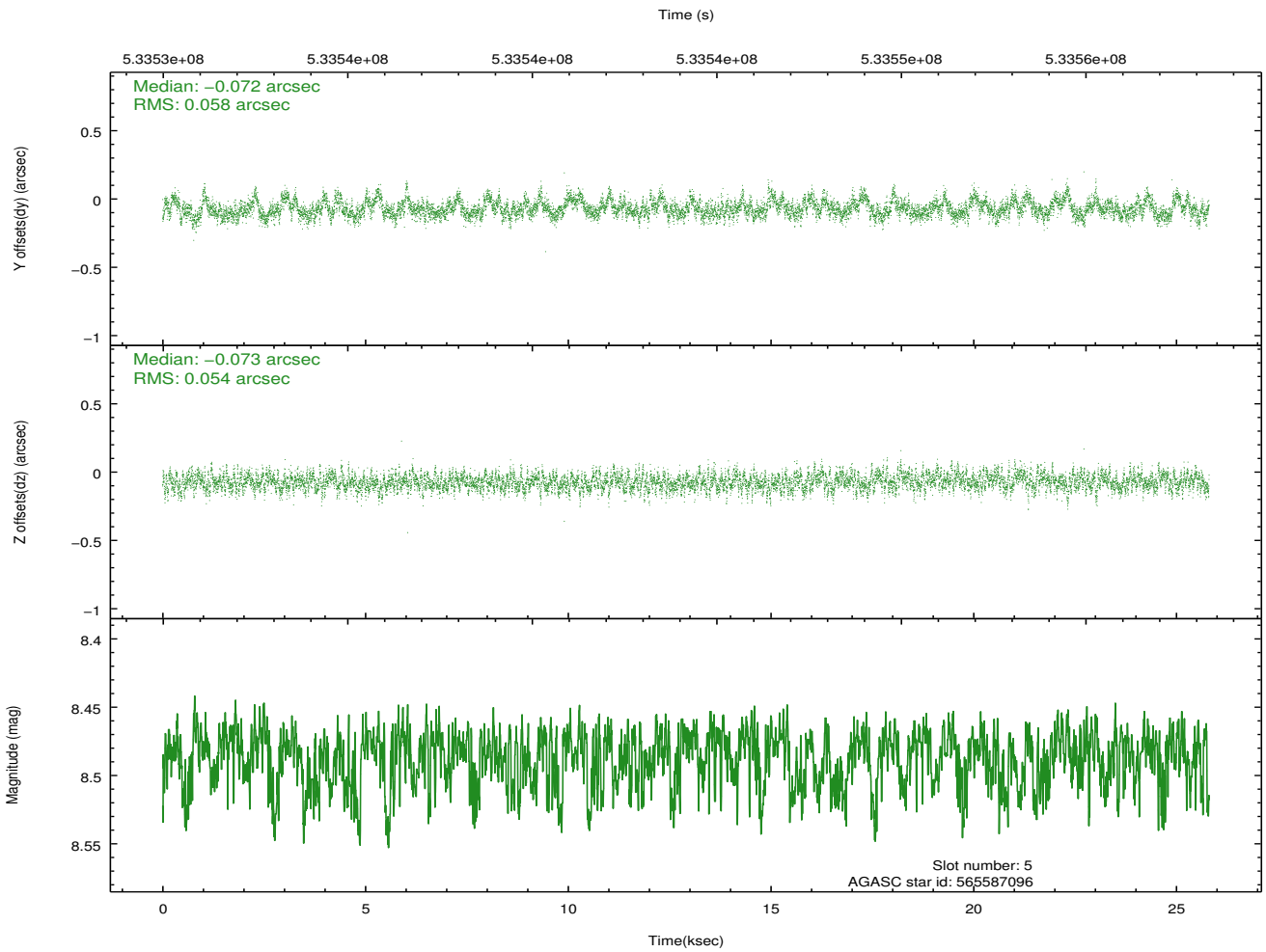
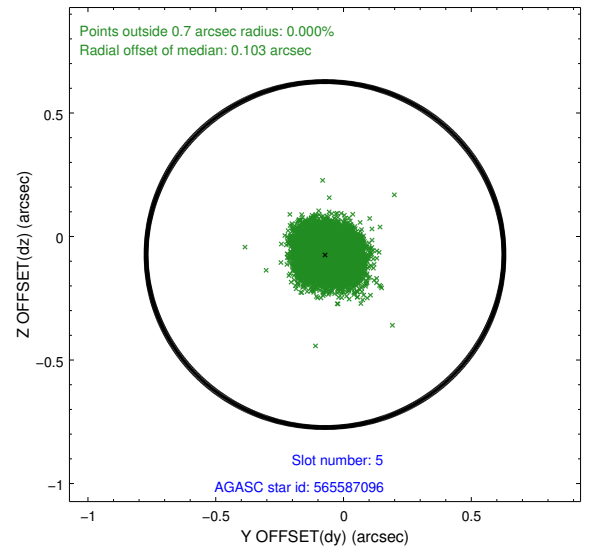
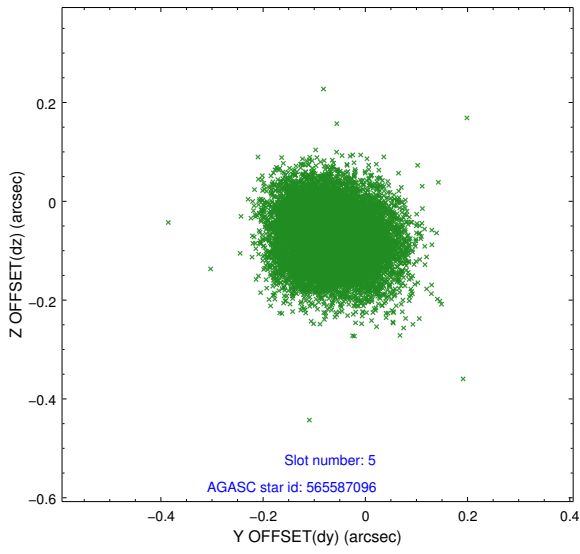
2.4.1 Slot 3



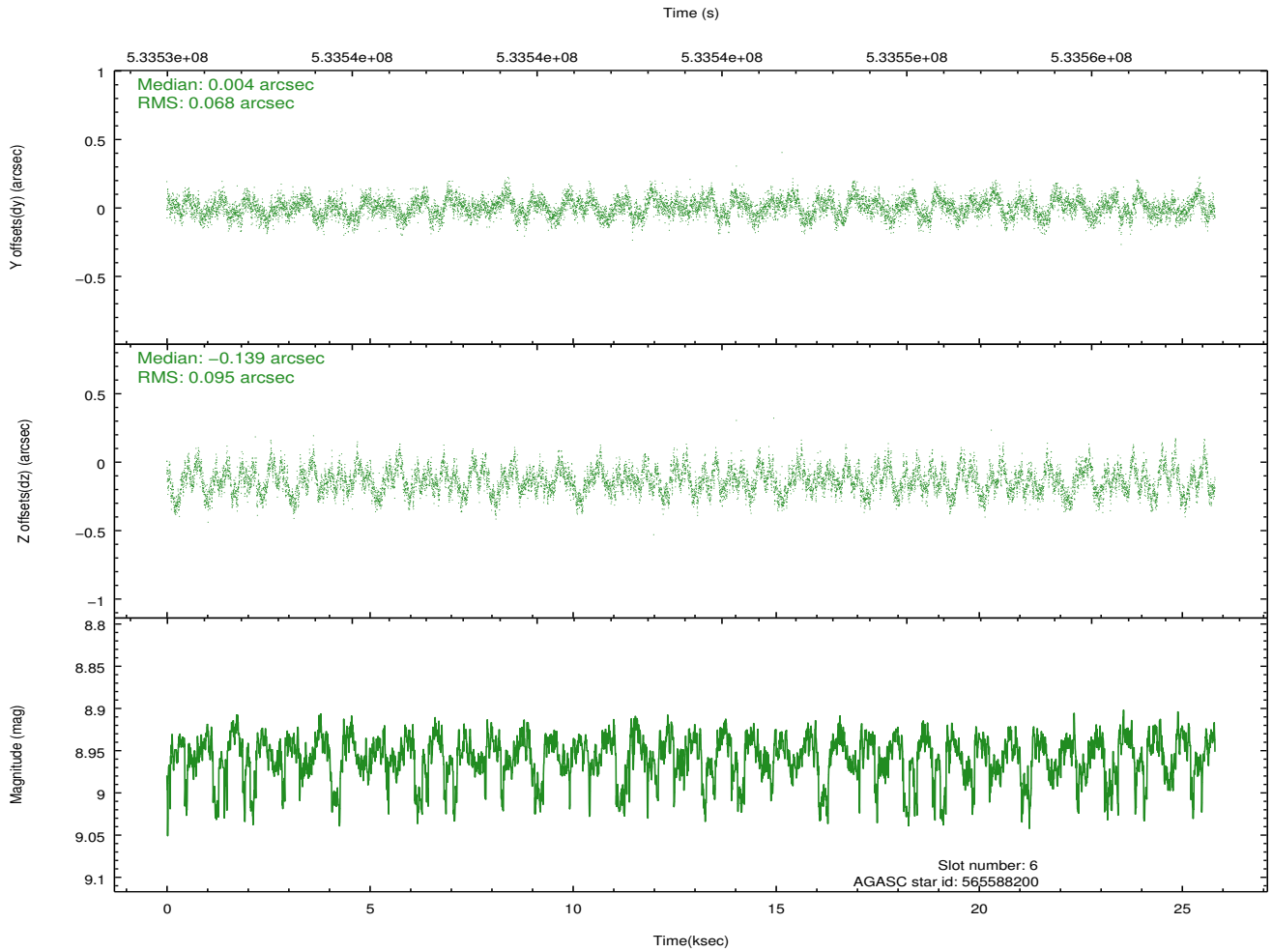
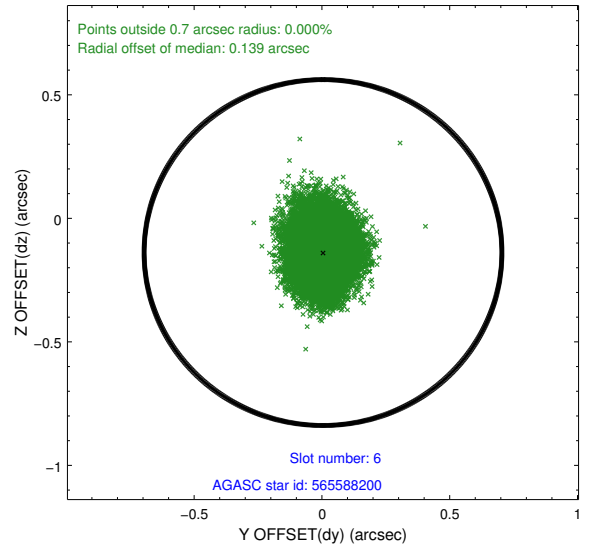
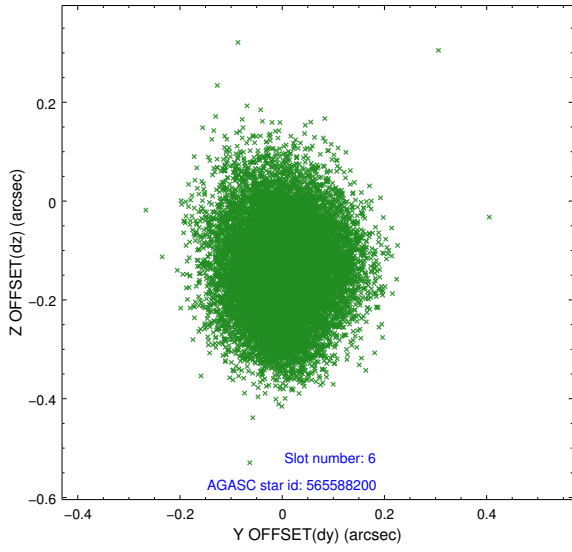
2.4.2 Slot 4



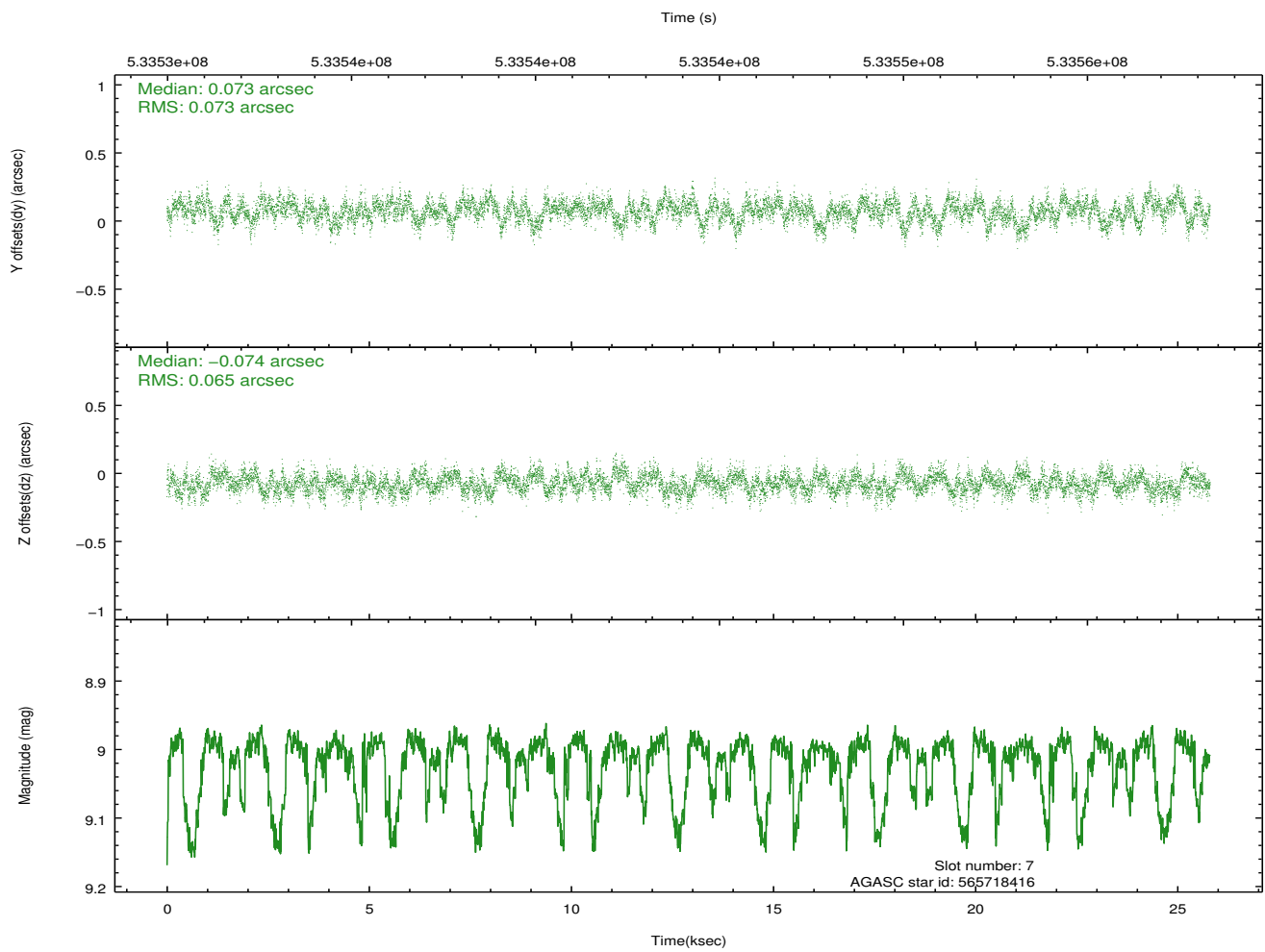
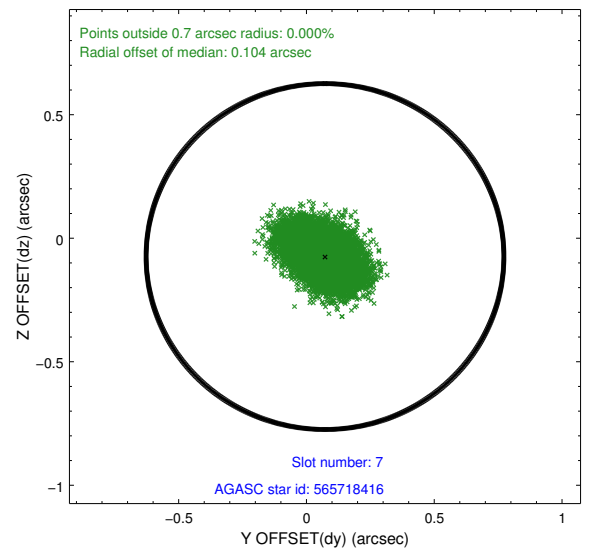
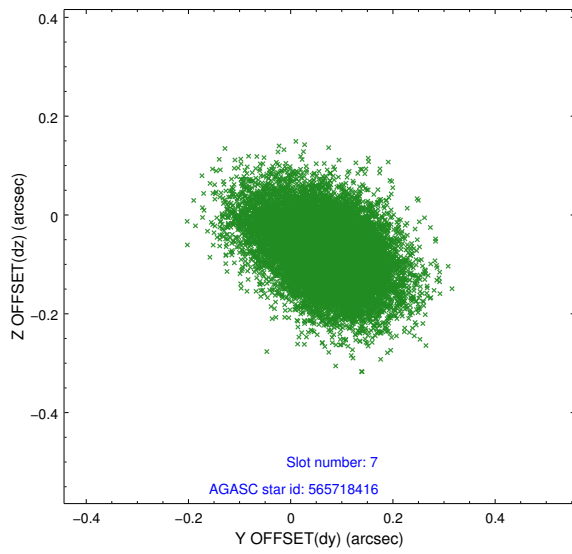
2.4.3 Slot 5



2.4.4 Slot 6

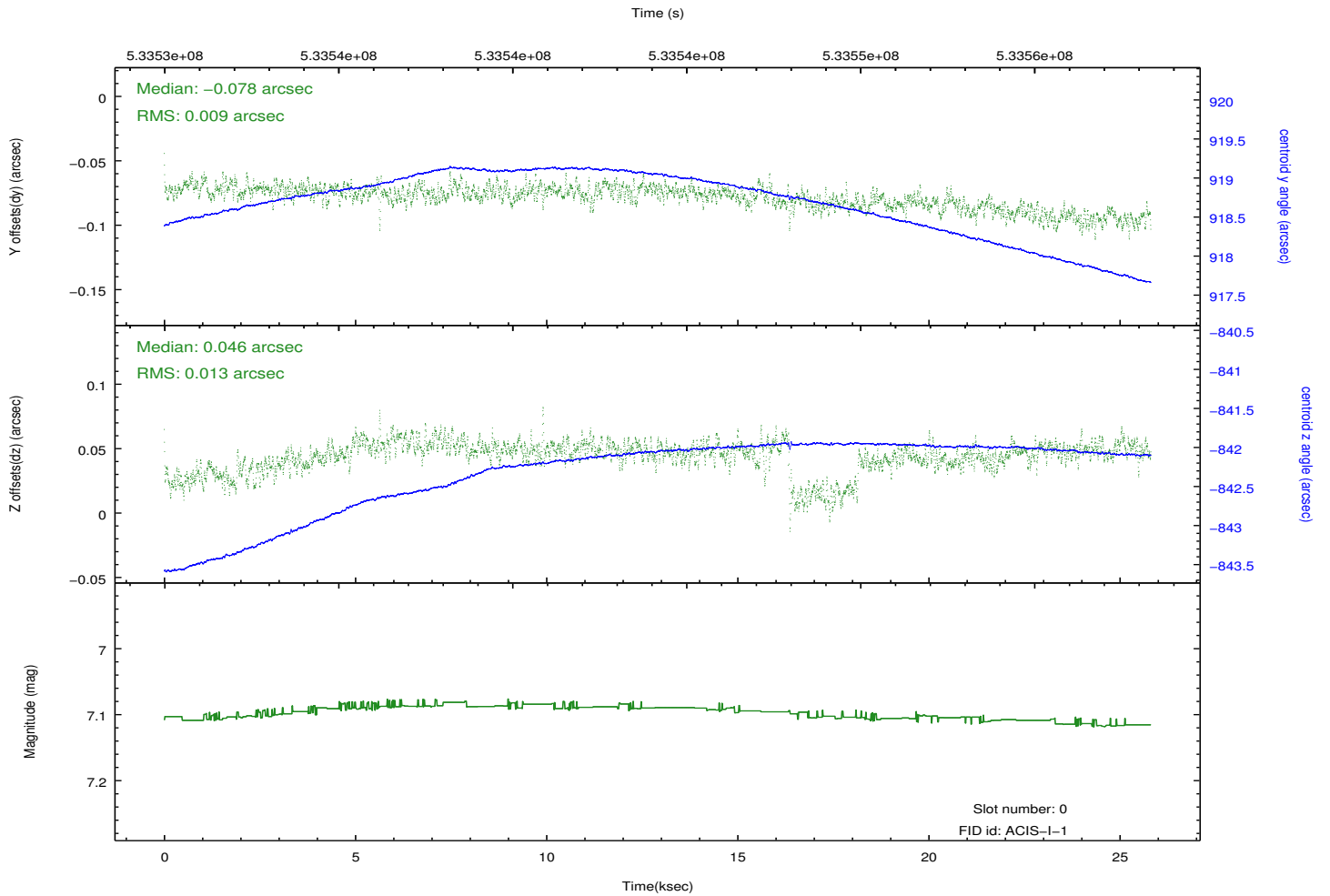
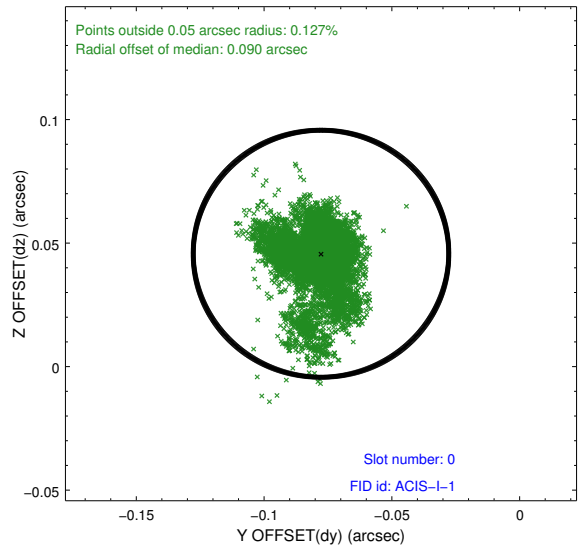
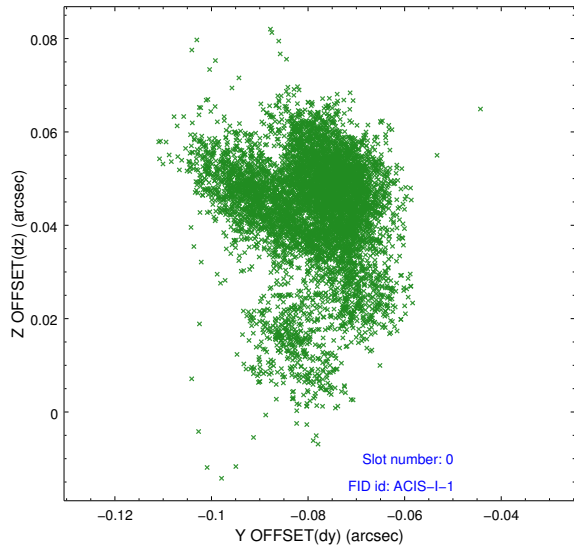


2.4.5 Slot 7

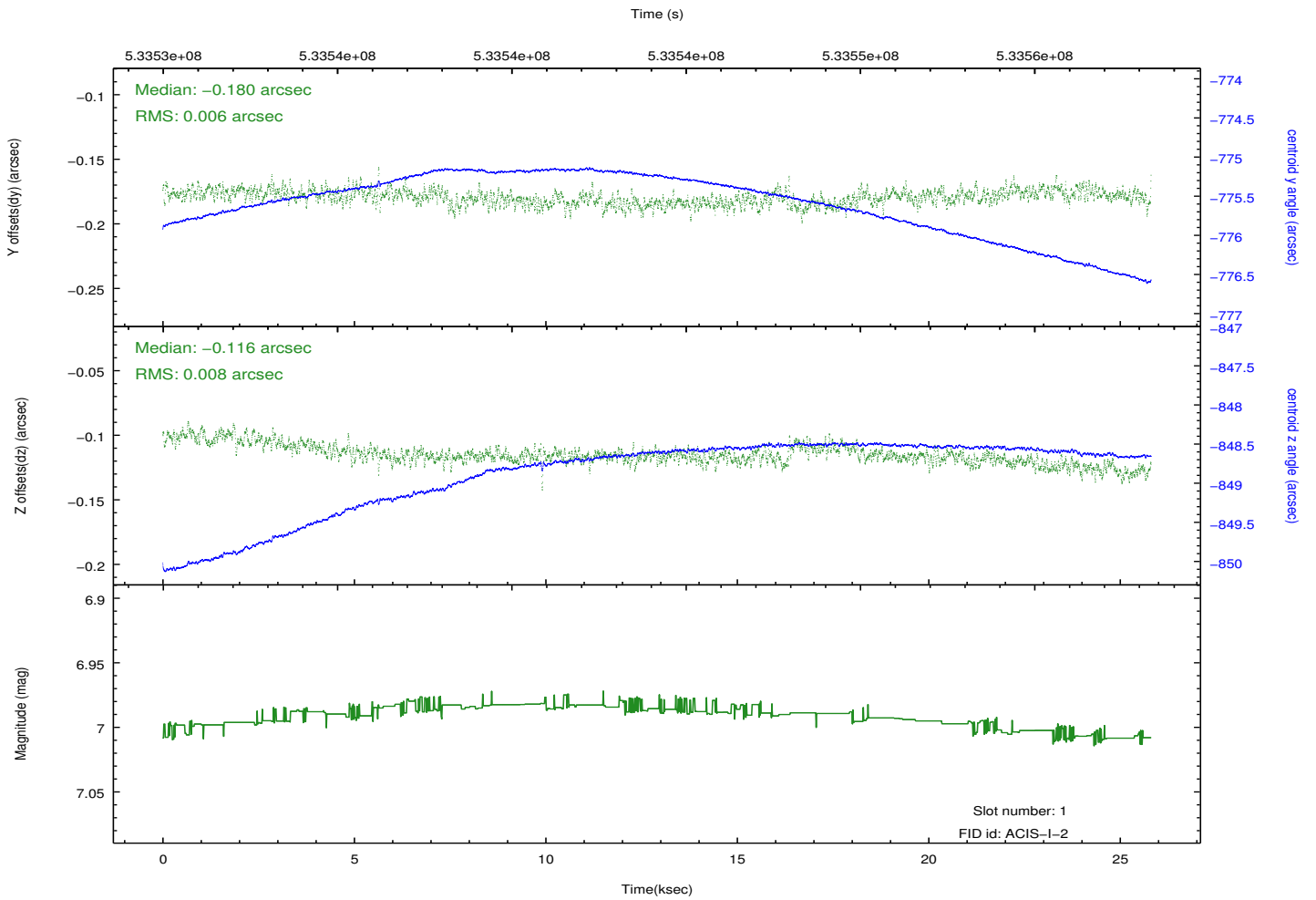
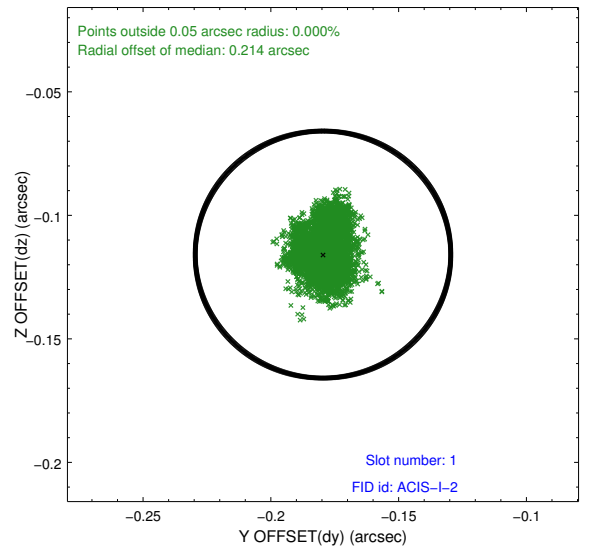
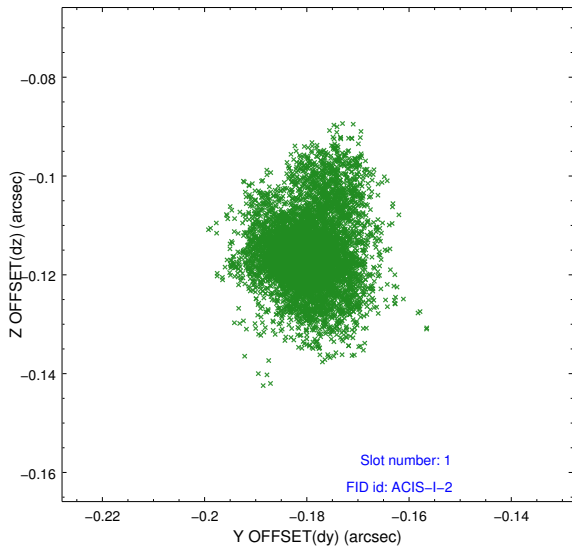


2.5 FID Slots

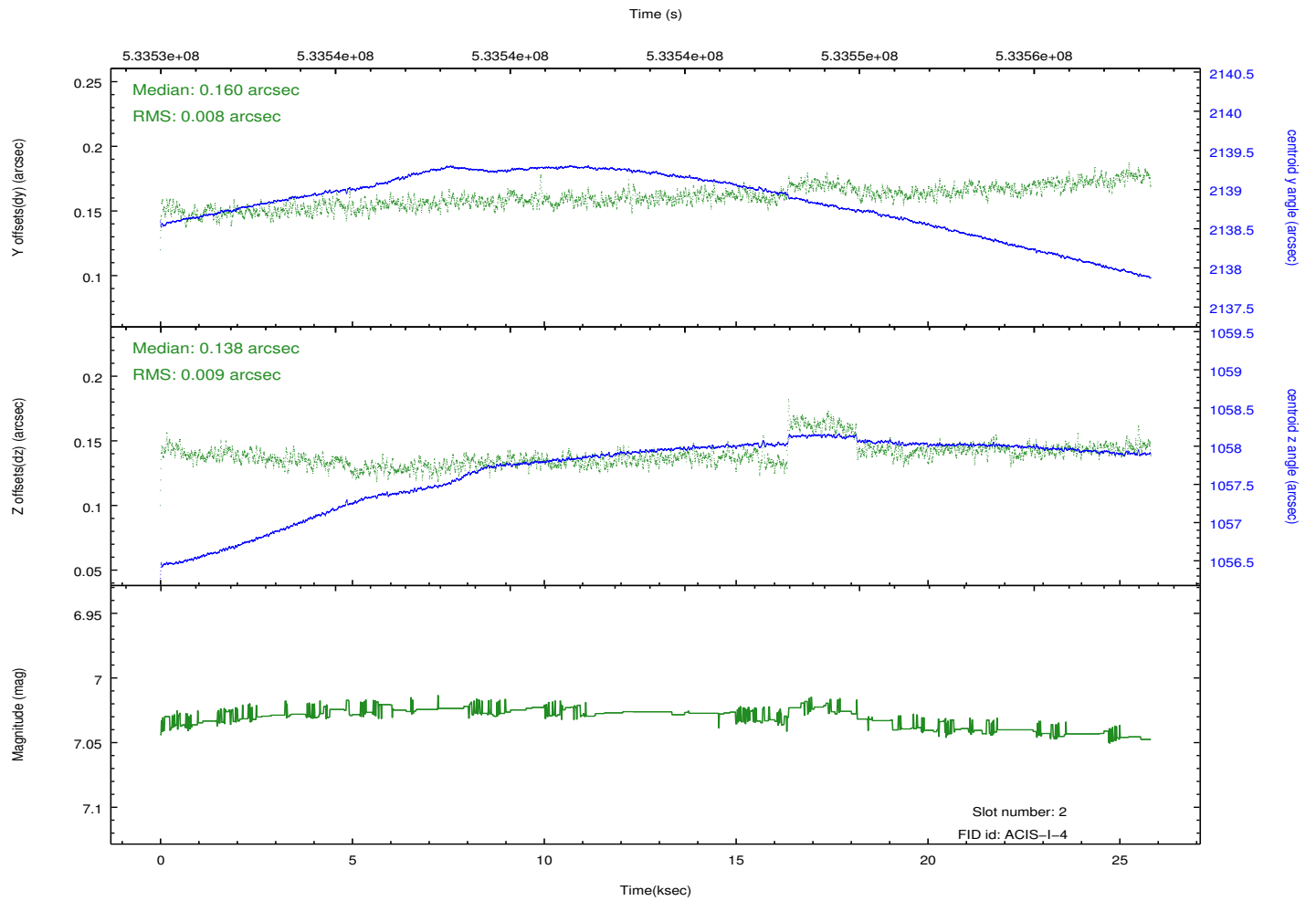
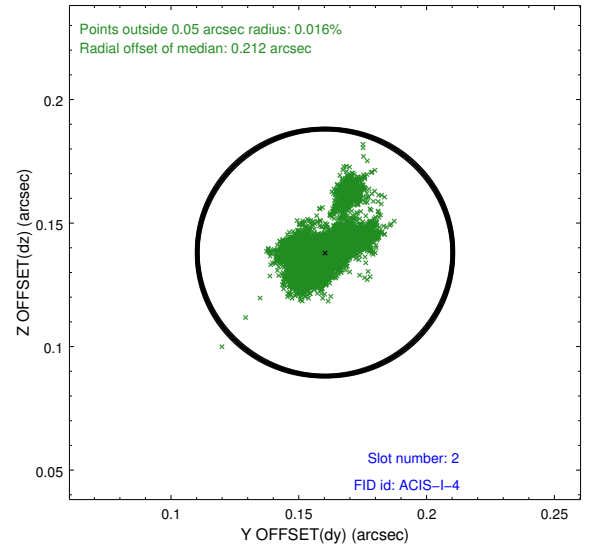
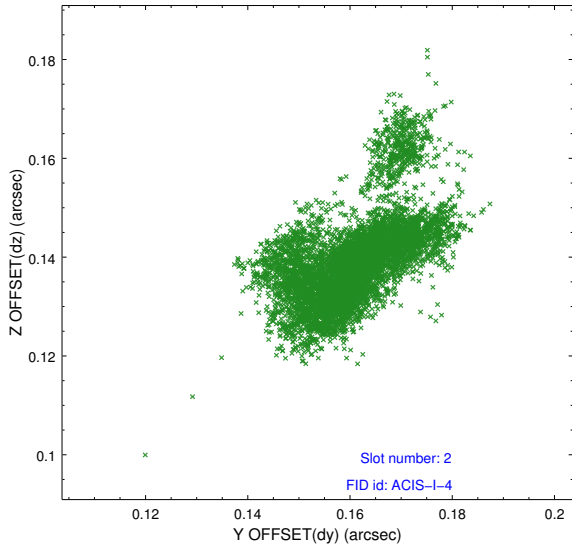
2.5.1 Slot 0



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)	2014.12.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.081397641957

A.2 Comments