

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 17130 - L2 Version 1
Chandra X-Ray Center

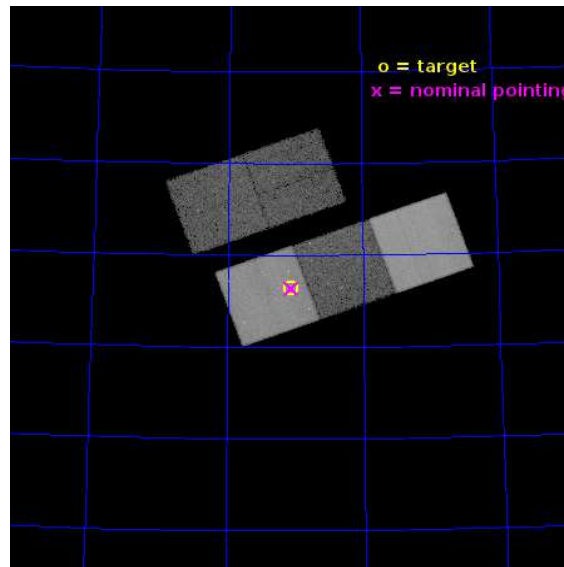
L2 Processing Date : Jan 18 2016

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1 Front

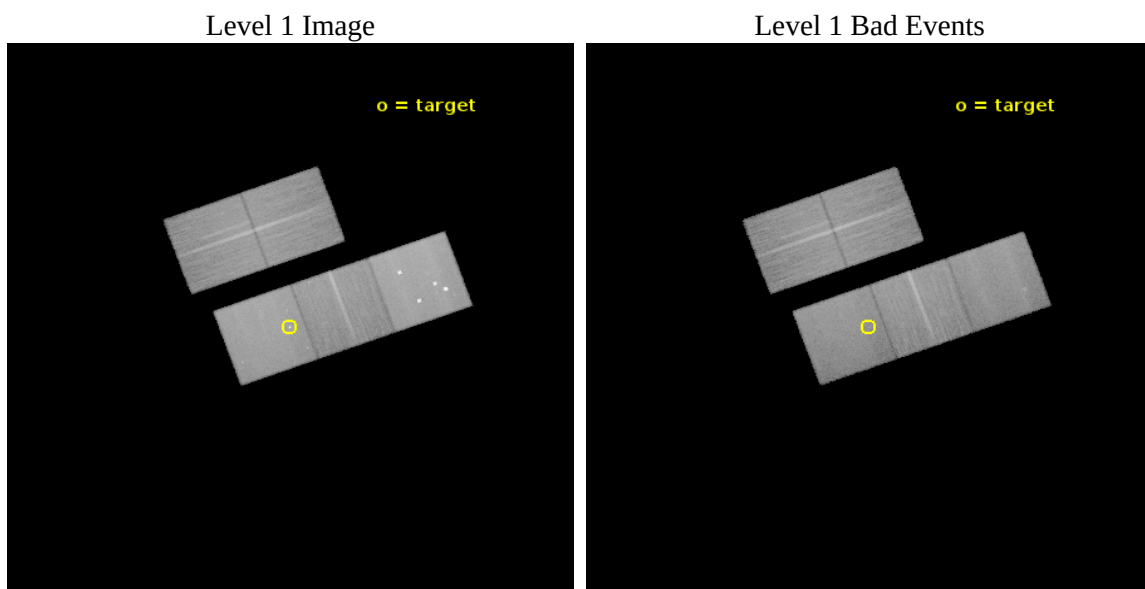
seq_num	703129	Sequence number
obs_id	17130	Observation id
title	Strong FR II galaxy 3C 220.1 in a cluster cool core	Proposal title
observer	Dr Ming Sun	Principal investigator
object	3C 220.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.166667	Observer's specified target RA [deg]
dec_targ	79.108333	Observer's specified target Dec [deg]
ra_nom	143.16164977918	Nominal RA [deg]
dec_nom	79.1061406855	Nominal Dec [deg]
roll_nom	160.16156091418	Nominal Roll [deg]
revision	1	Processing version of data
ontime	42060.159896612	Sum of GTIs [s]
livetime	41510.612943324	Livetime [s]
ontime2	42056.854676366	Sum of GTIs [s]
ontime3	42056.895706415	Sum of GTIs [s]
ontime5	42060.118856668	Sum of GTIs [s]
ontime6	42050.654646039	Sum of GTIs [s]
ontime7	42060.159896612	Sum of GTIs [s]
l2events	386352	Number of level 2 events



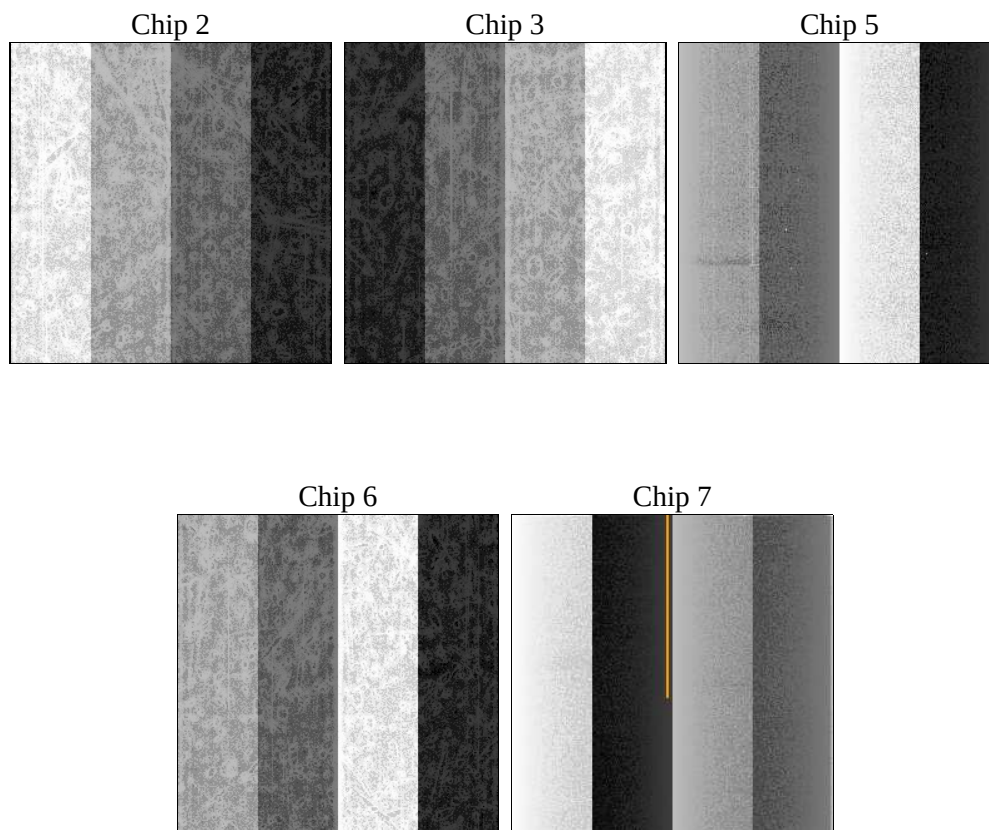
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	42060.159896612	Sum of GTIs [s]
caldsver	4.7.0	 	ontime2	42056.854676366	Sum of GTIs [s]
date	2016-01-18T11:55:56	Date and time of file creation	ontime3	42056.895706415	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	42060.118856668	Sum of GTIs [s]
			ontime6	42050.654646039	Sum of GTIs [s]
			ontime7	42060.159896612	Sum of GTIs [s]
			l1events	1497360	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	243738	242025	427052	256198	328347
rejected events	217837	216670	208688	227245	187289
rejected %	89%	89%	48%	88%	57%

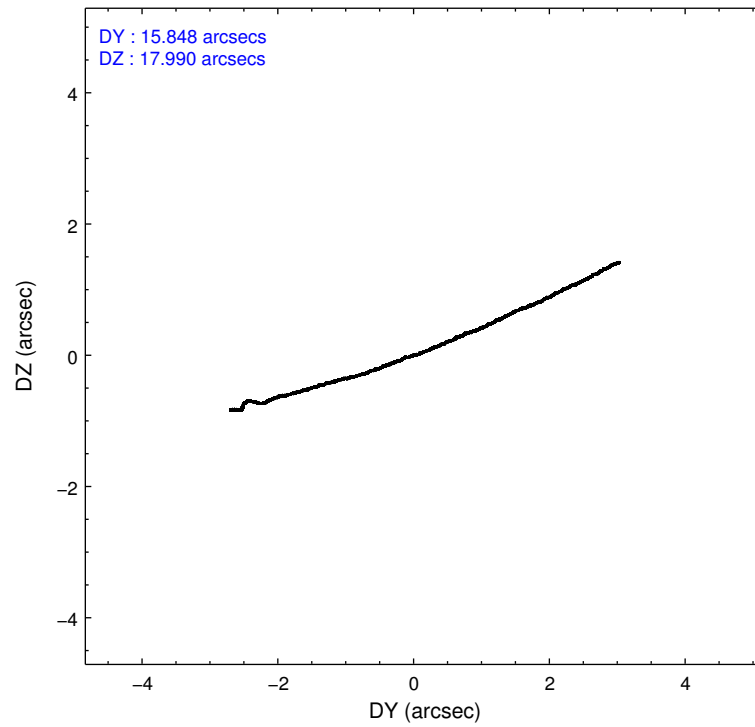
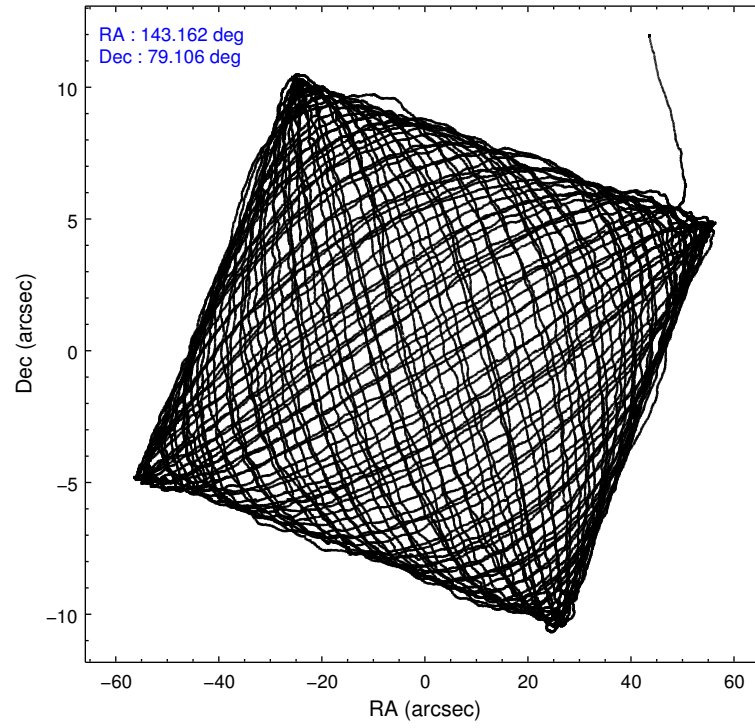
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	9193	8694	33696	9715	12064
	3%	3%	7%	3%	3%
grade 1 events	110	152	1163	120	378
	0%	0%	0%	0%	0%
grade 2 events	6064	5557	68242	6890	29876
	2%	2%	15%	2%	9%
grade 3 events	2781	2761	5433	2647	10973
	1%	1%	1%	1%	3%
grade 4 events	2675	2767	5184	2661	10769
	1%	1%	1%	1%	3%
grade 5 events	9963	11970	25914	11490	31331
	4%	4%	6%	4%	9%
grade 6 events	5190	5580	105829	7048	77396
	2%	2%	24%	2%	23%
grade 7 events	207762	204544	181591	215627	155560
	85%	84%	42%	84%	47%

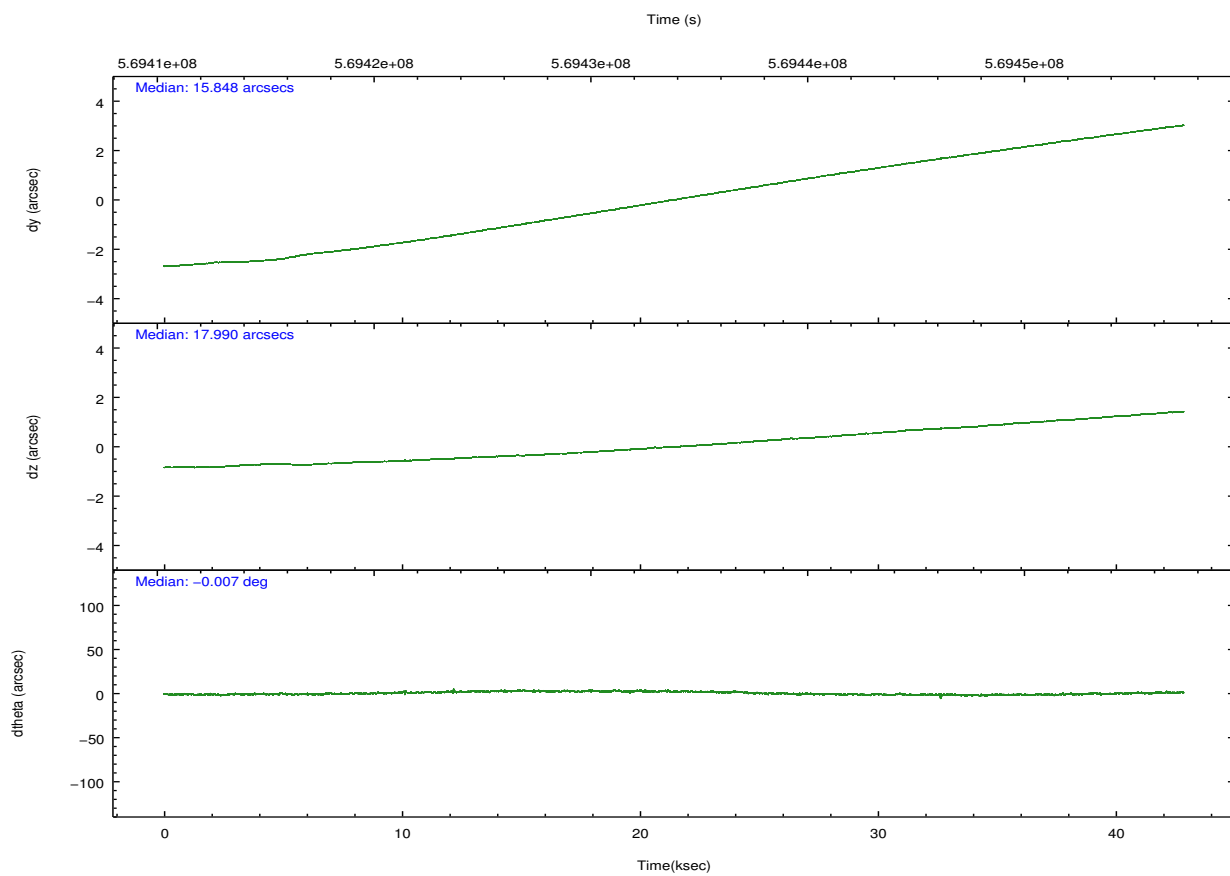
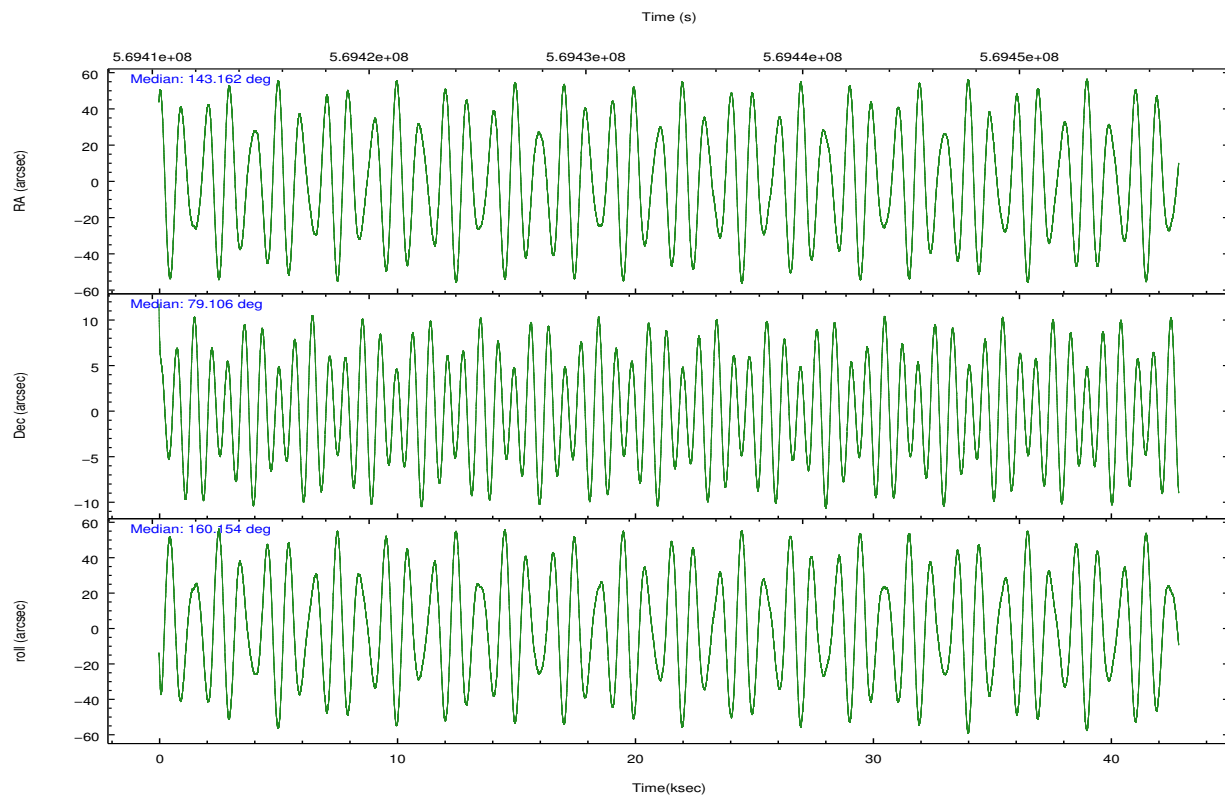
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	143.304330	143.1616497791849
[deg] Pointing Dec	79.111307	79.10614068550018
[deg] Pointing Roll	159.864822	160.161560914176
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	569413246.184000	569410999.8578399
Observation start date	2016-01-17T10:19:38	2016-01-17T09:43:19
[s] Observation end time (MET)	569455246.184000	569455838.4853899
Observation end date	2016-01-17T21:59:38	2016-01-17T22:10:38
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	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
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



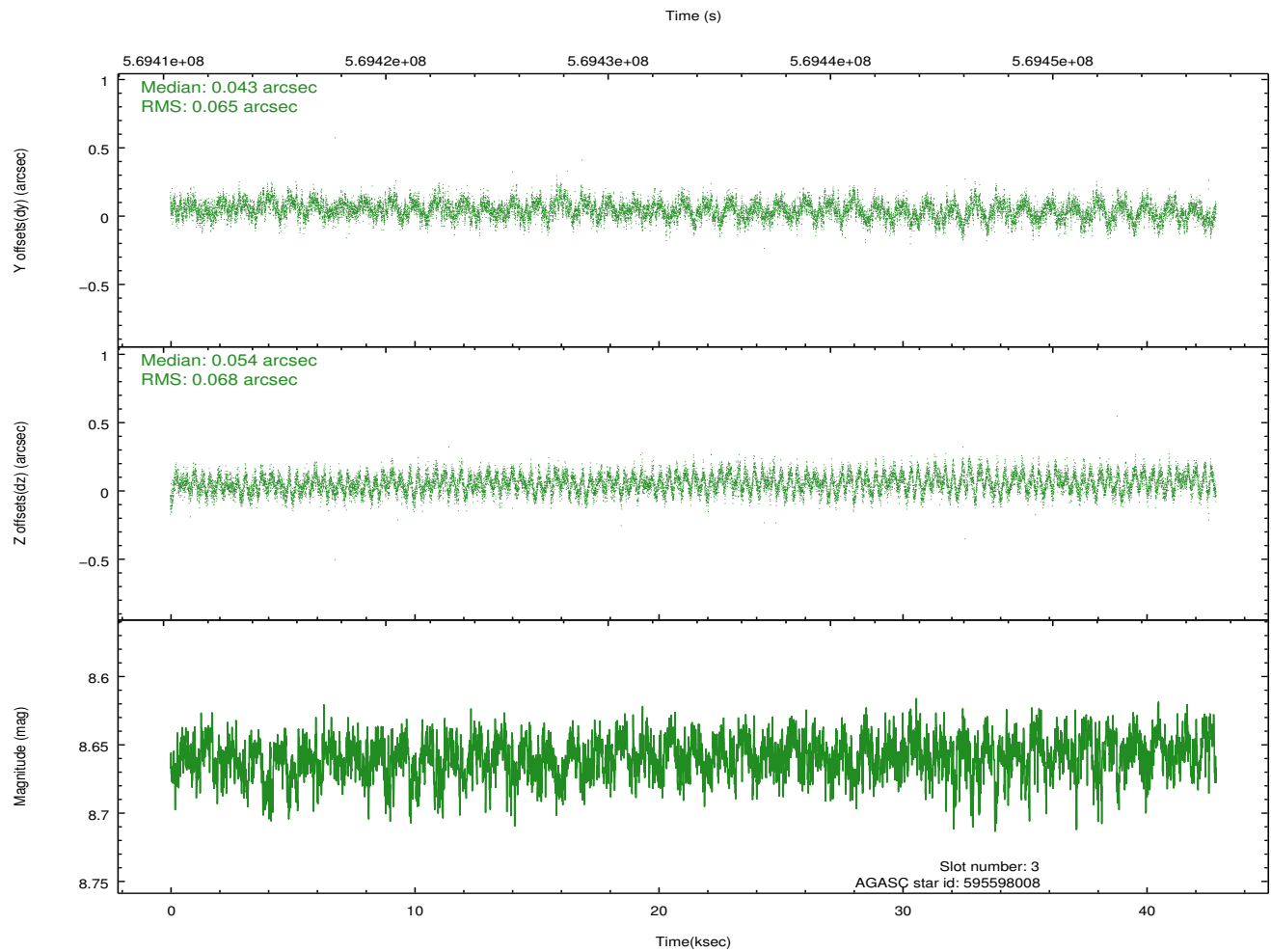
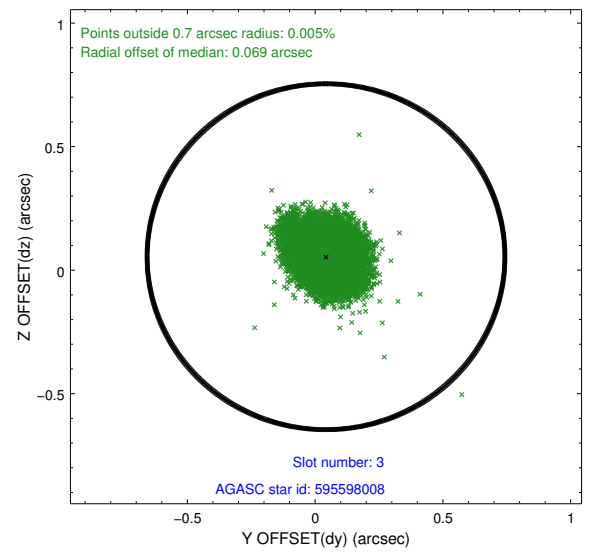
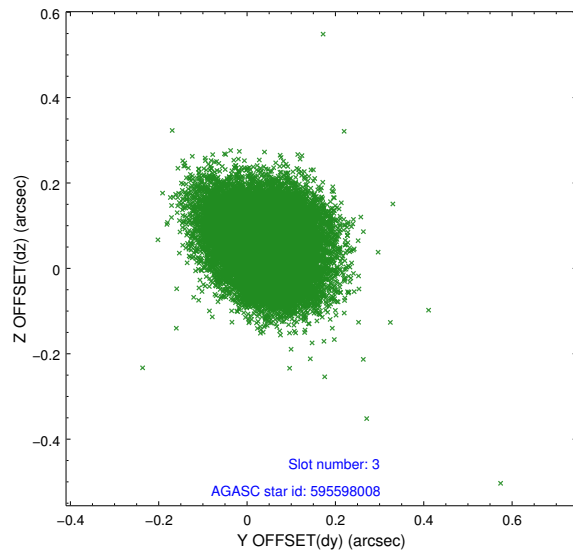


Slot Statistics

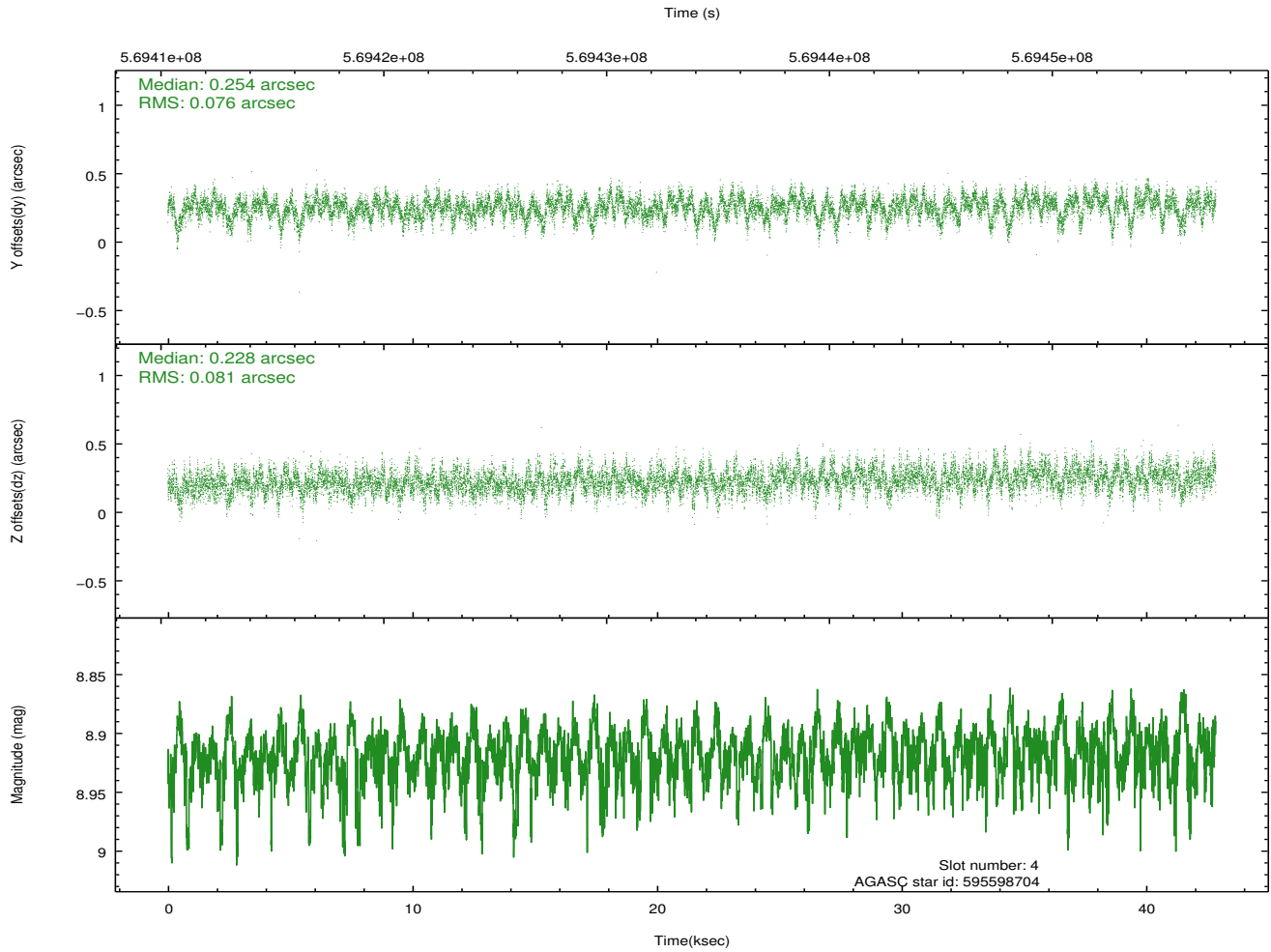
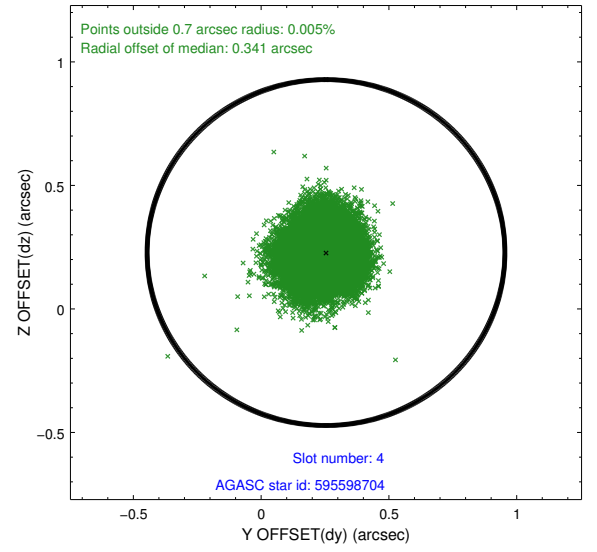
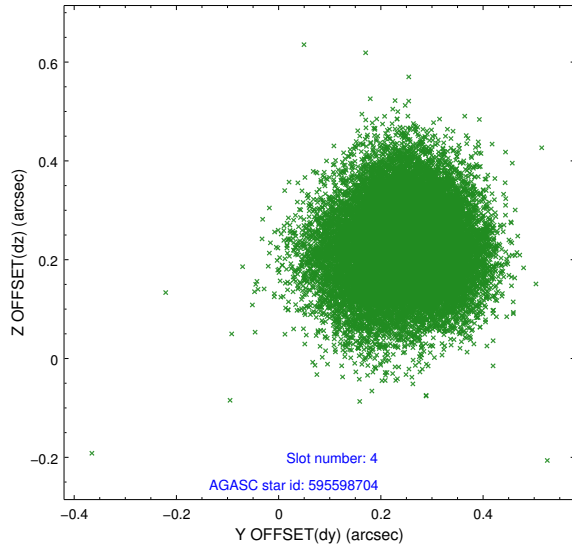
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.22	10454	0.151	-0.060	0.024	0.037	0.000000	0.000000	927.38	-1735.22
1	FID		ACIS-S-5	7.24	10454	-0.279	0.088	0.023	0.038	0.000000	0.000000	-1822.10	162.41
2	FID		ACIS-S-6	7.36	10452	0.104	-0.014	0.022	0.043	0.000000	0.000000	392.82	806.33
3	GUIDE	used	595598008	8.66	20900	0.043	0.054	0.100	0.160	145.036666	78.494292	-1926.13	1640.24
4	GUIDE	used	595598704	8.92	20892	0.254	0.228	0.118	0.191	144.734699	79.568538	-304.17	-1876.44
5	GUIDE	used	595601288	9.11	20890	-0.017	-0.117	0.139	0.235	141.278582	79.833278	2111.22	-2017.82
6	GUIDE	used	595605888	8.71	20904	-0.293	-0.250	0.123	0.191	141.193775	78.728207	928.27	1781.60
7	GUIDE	used	595604752	9.31	20891	0.029	0.085	0.142	0.236	145.610225	78.464346	-2348.74	1584.93

2.4 Star Slots

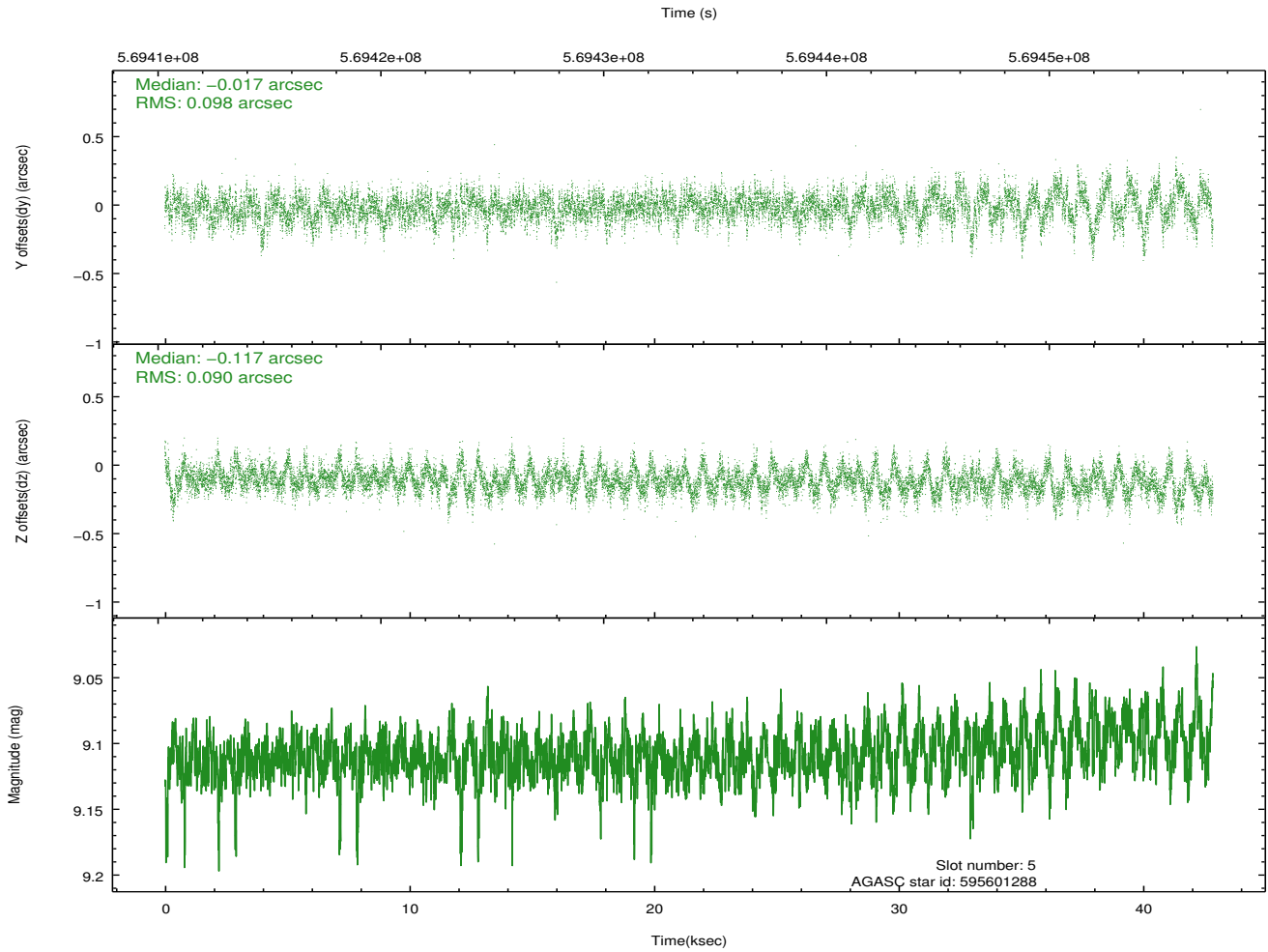
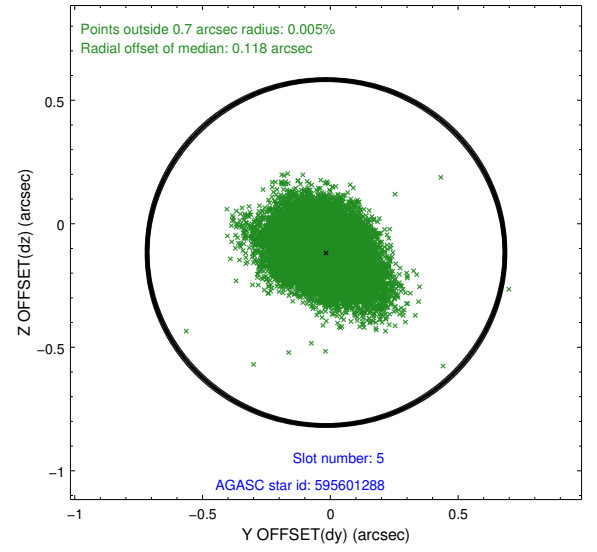
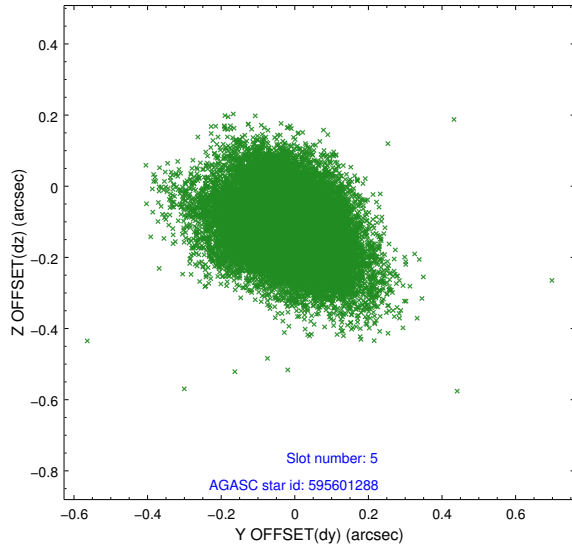
2.4.1 Slot 3



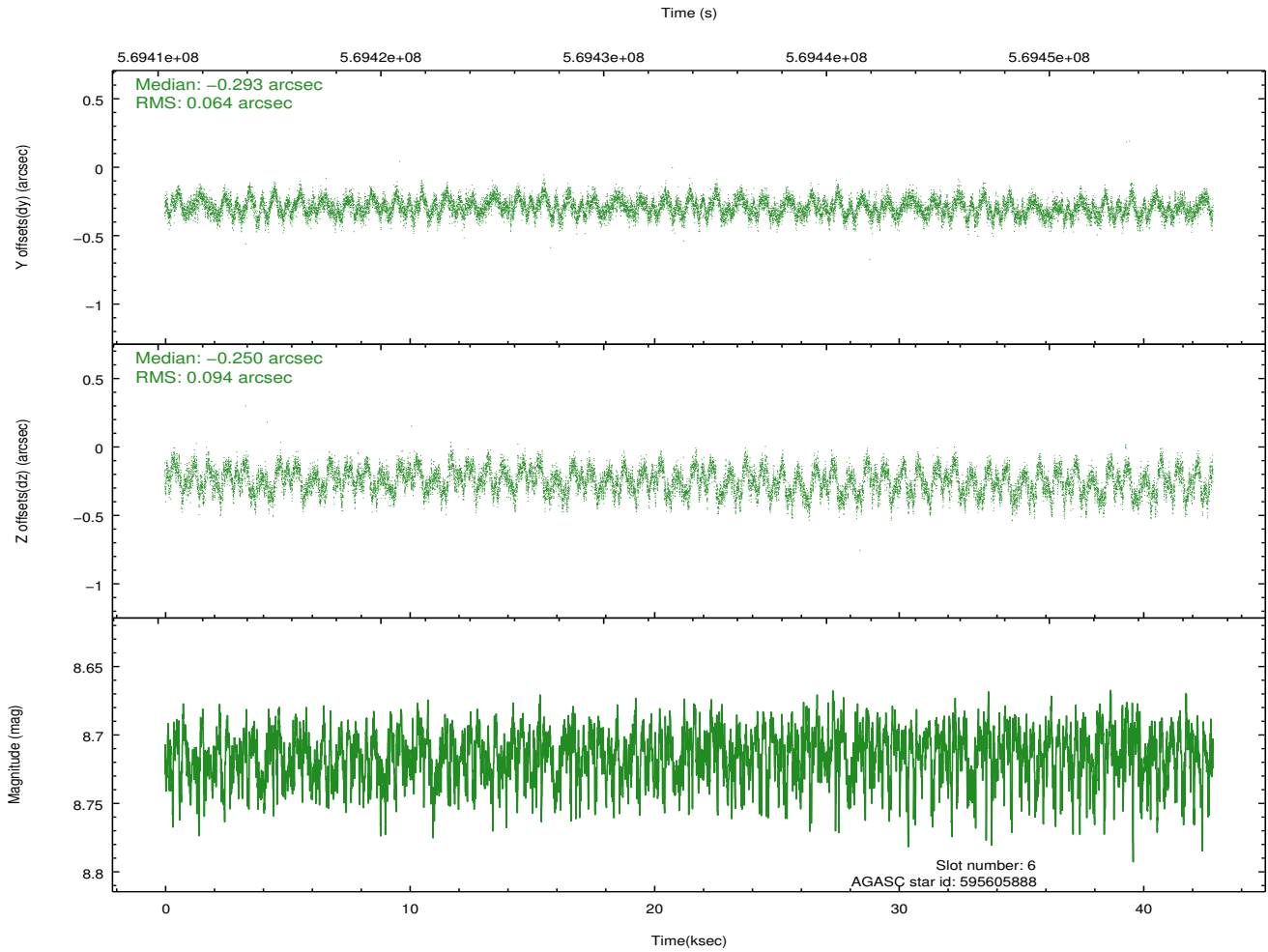
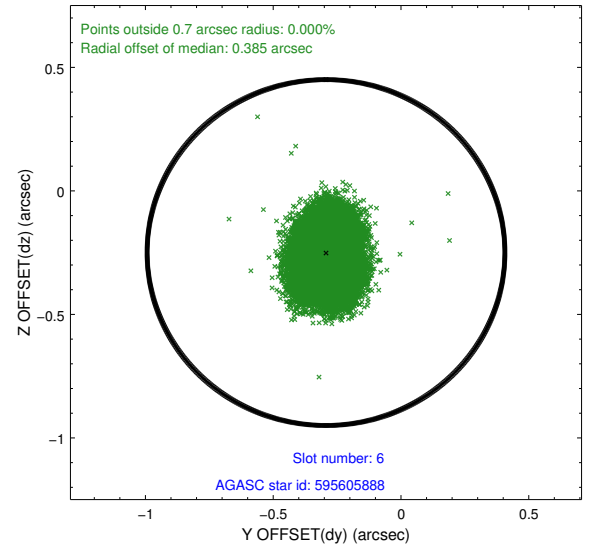
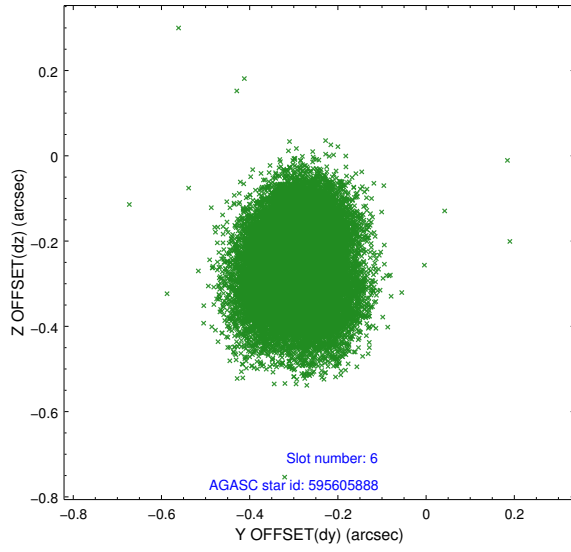
2.4.2 Slot 4



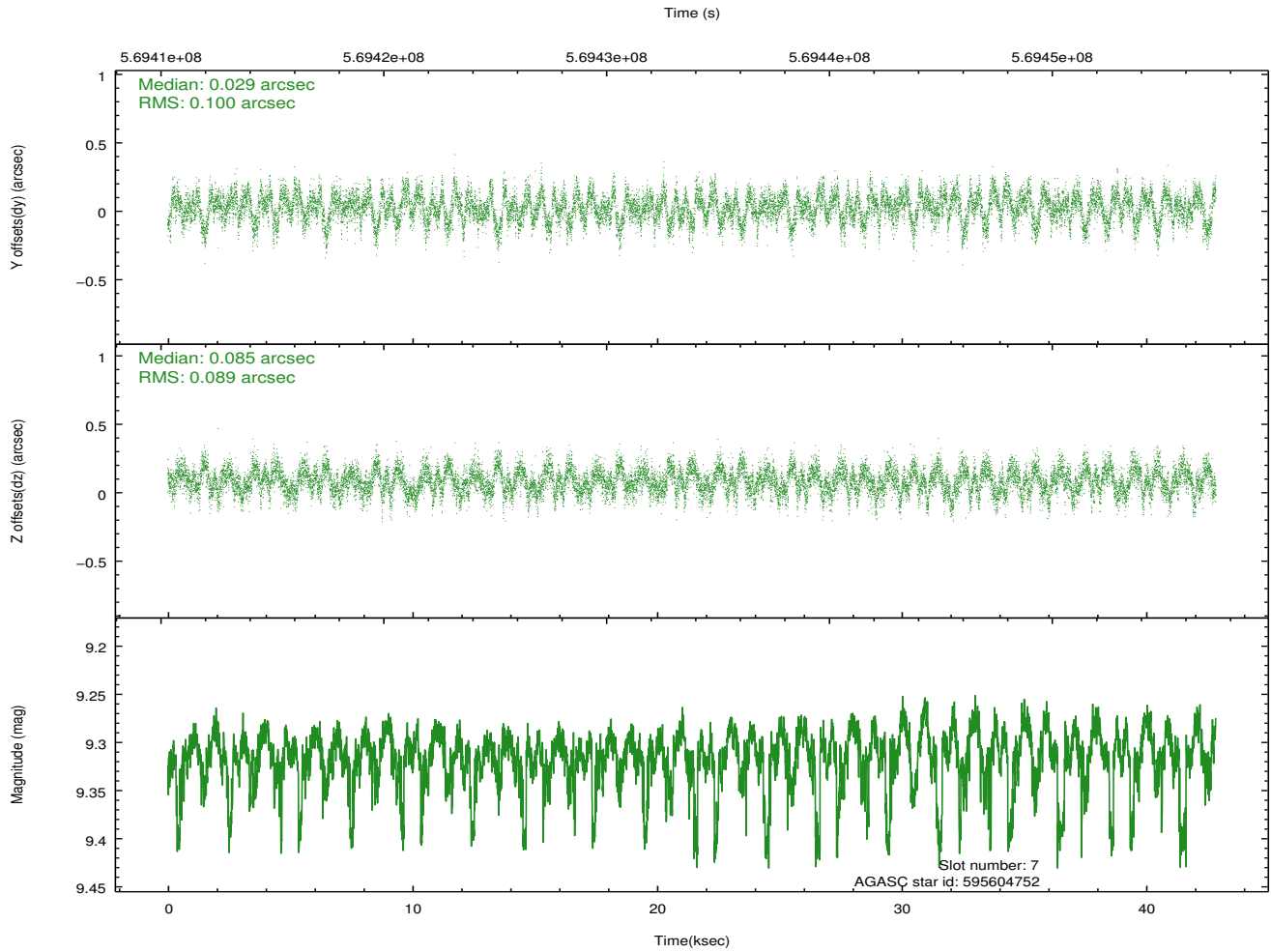
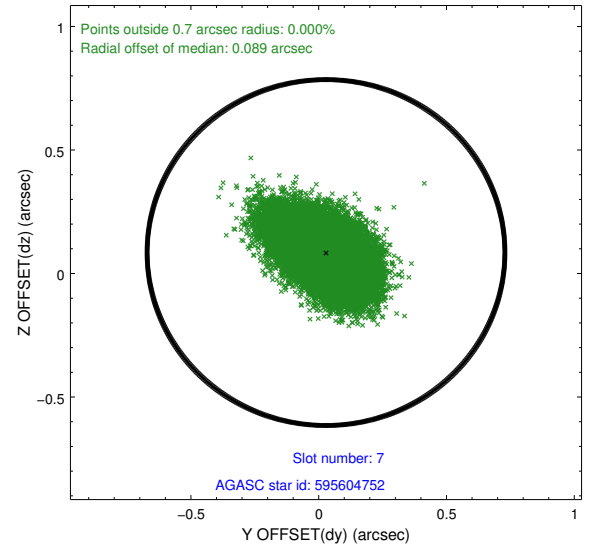
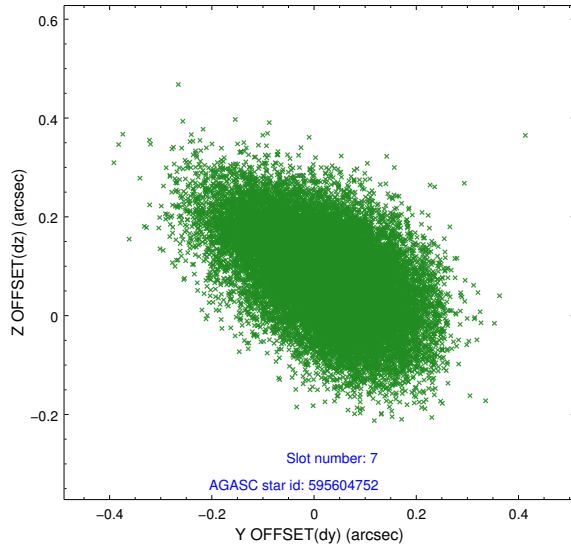
2.4.3 Slot 5



2.4.4 Slot 6

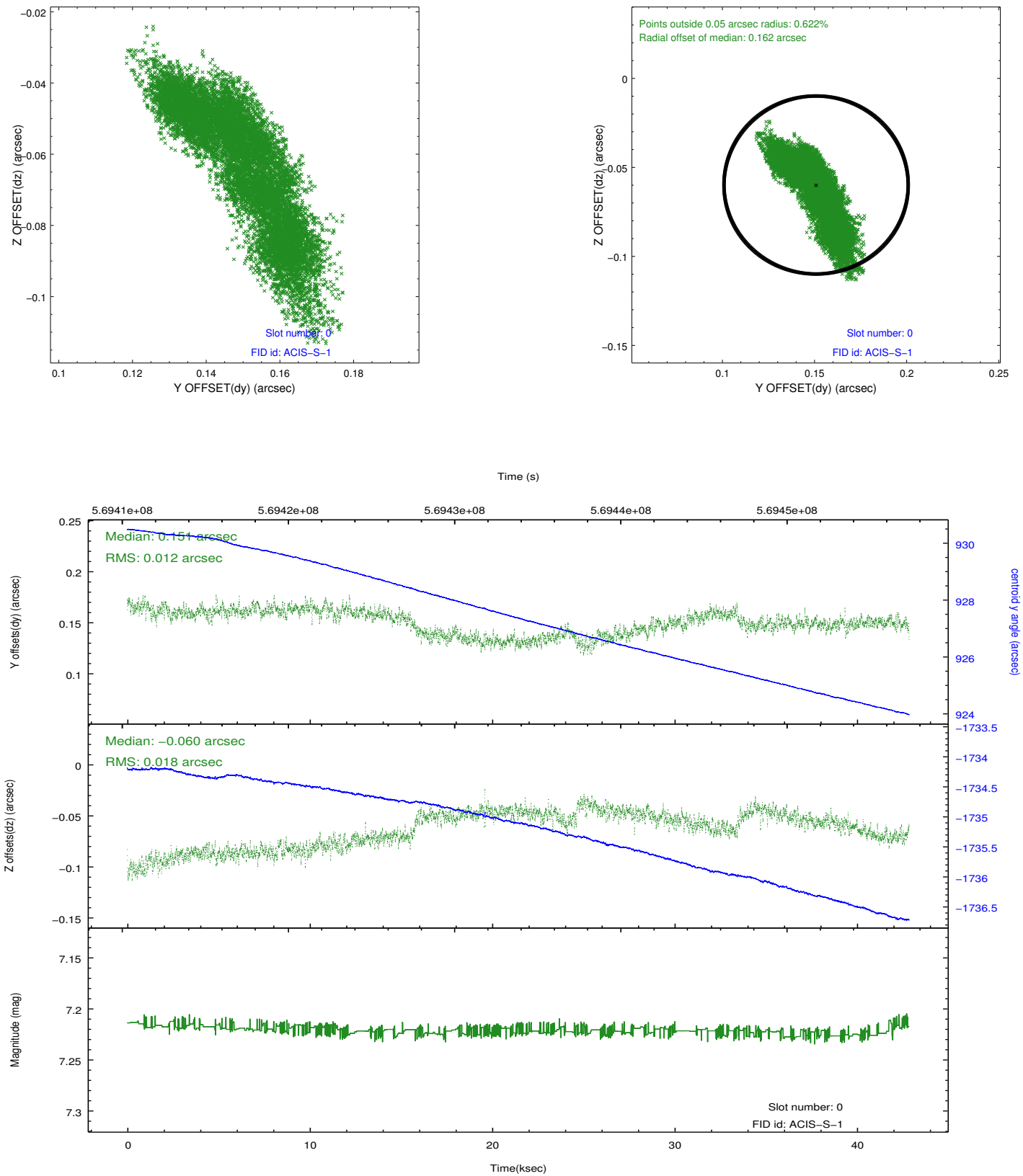


2.4.5 Slot 7

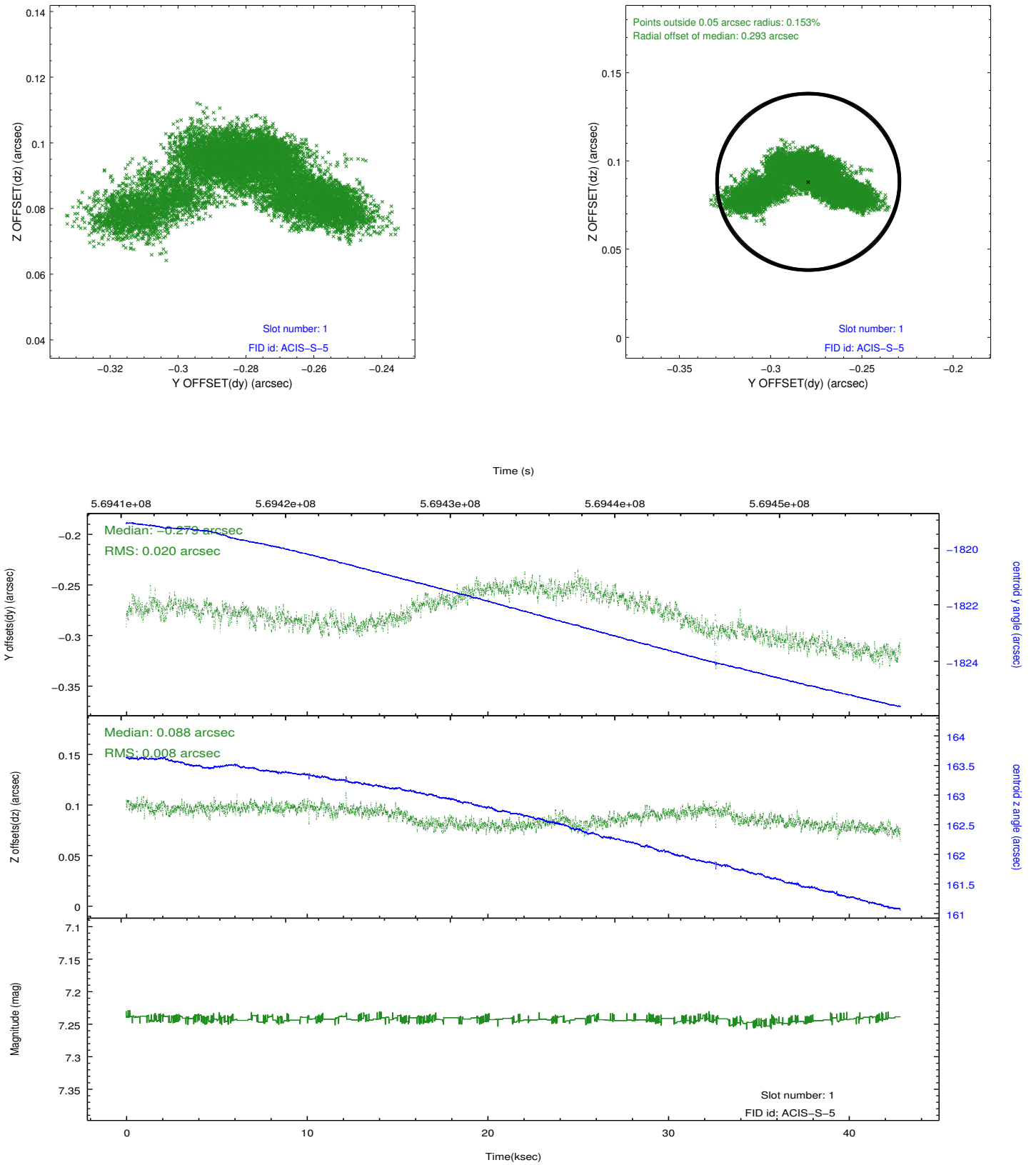


2.5 FID Slots

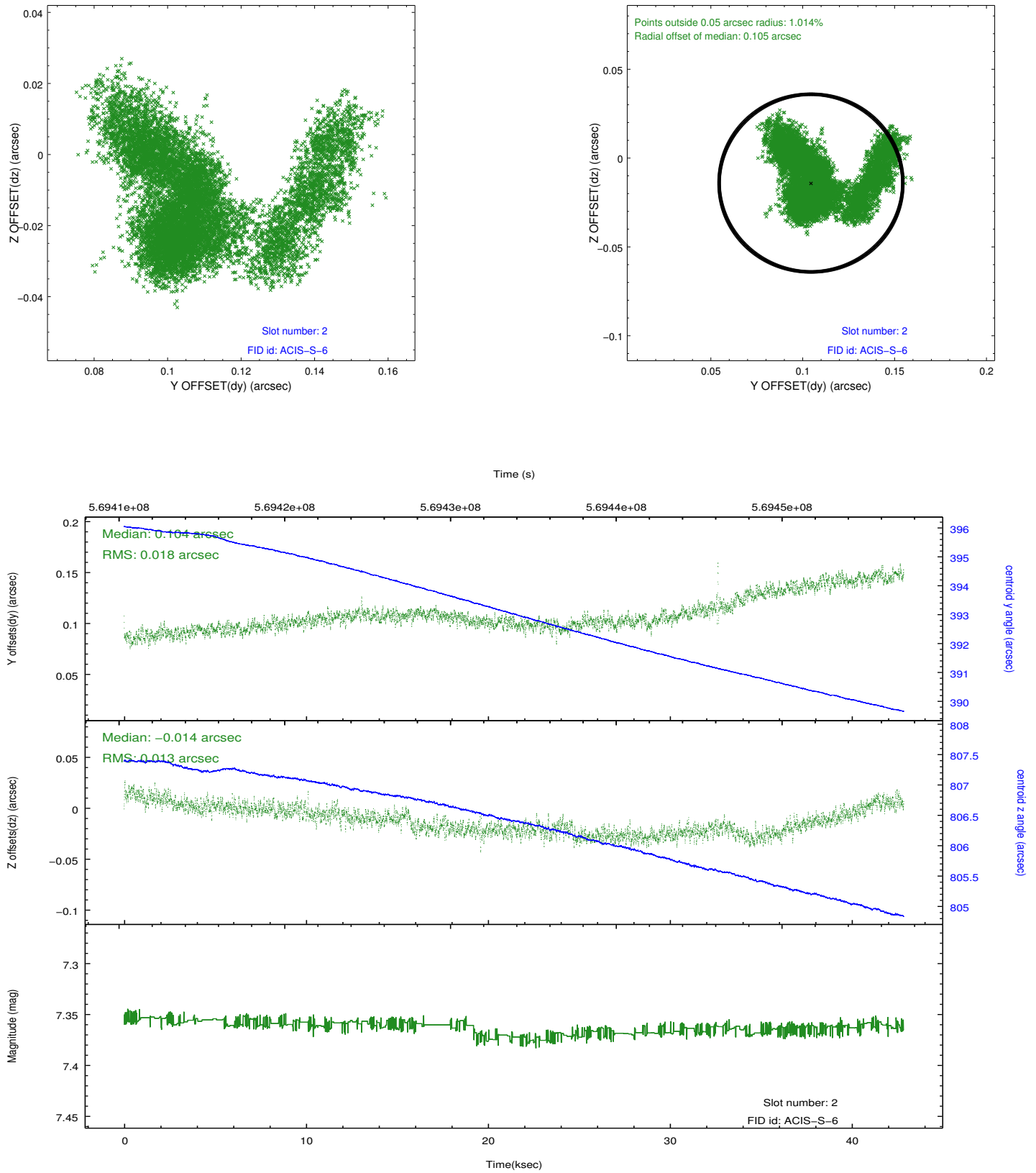
2.5.1 Slot 0



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)	2016.01.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.060159896612

A.2 Comments