

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 16749 - L2 Version 1
Chandra X-Ray Center

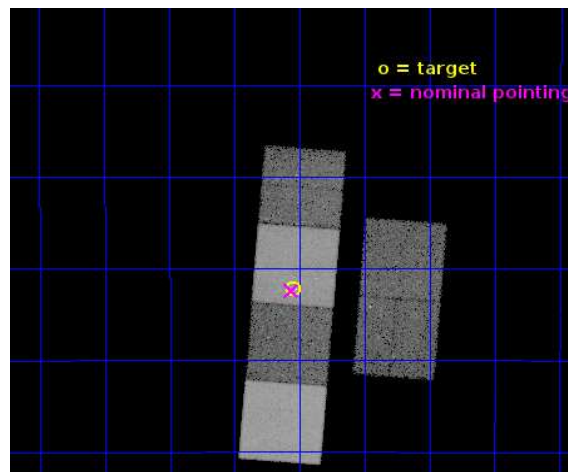
L2 Processing Date : Aug 9 2015

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1 Front

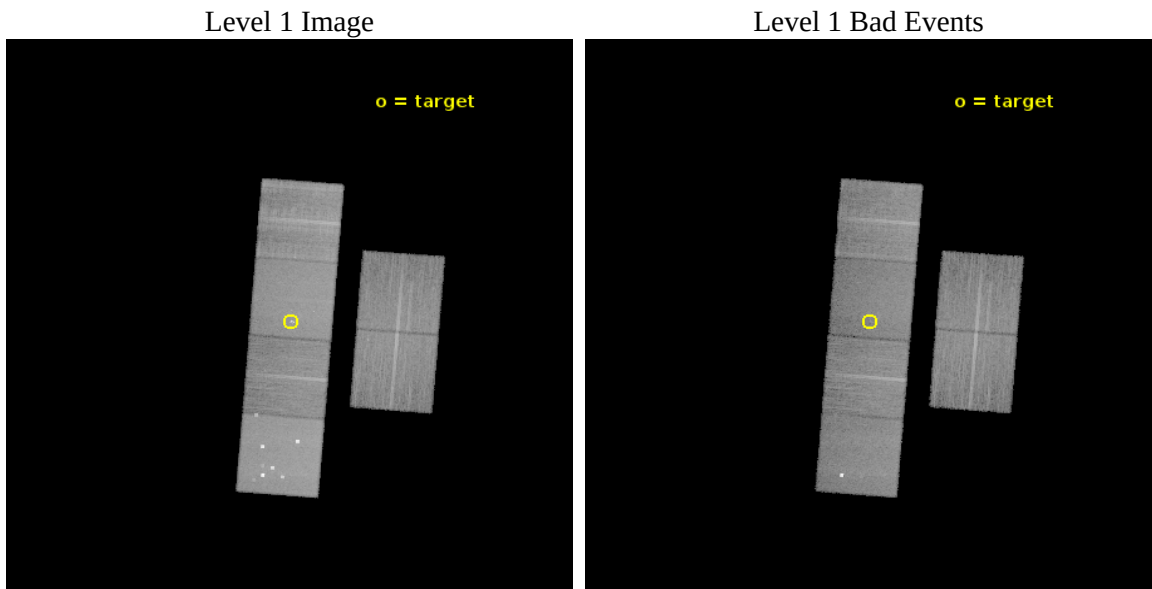
seq_num	401671	Sequence number
obs_id	16749	Observation id
title	Spying on millisecond pulsar paradise: Chandra+GBT monitoring of M28	
observer	Dr Manuel Linares	Principal investigator
object	M28	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	276.137083	Observer's specified target RA [deg]
dec_targ	-24.869833	Observer's specified target Dec [deg]
ra_nom	276.1412294101	Nominal RA [deg]
dec_nom	-24.873753383236	Nominal Dec [deg]
roll_nom	274.53018351917	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29926.400445938	Sum of GTIs [s]
livetime	29547.454343977	Livetime [s]
ontime2	29926.400445938	Sum of GTIs [s]
ontime3	29926.400445938	Sum of GTIs [s]
ontime5	29926.400445938	Sum of GTIs [s]
ontime6	29926.400445938	Sum of GTIs [s]
ontime7	29926.400445938	Sum of GTIs [s]
ontime8	29926.400445938	Sum of GTIs [s]
l2events	284995	Number of level 2 events



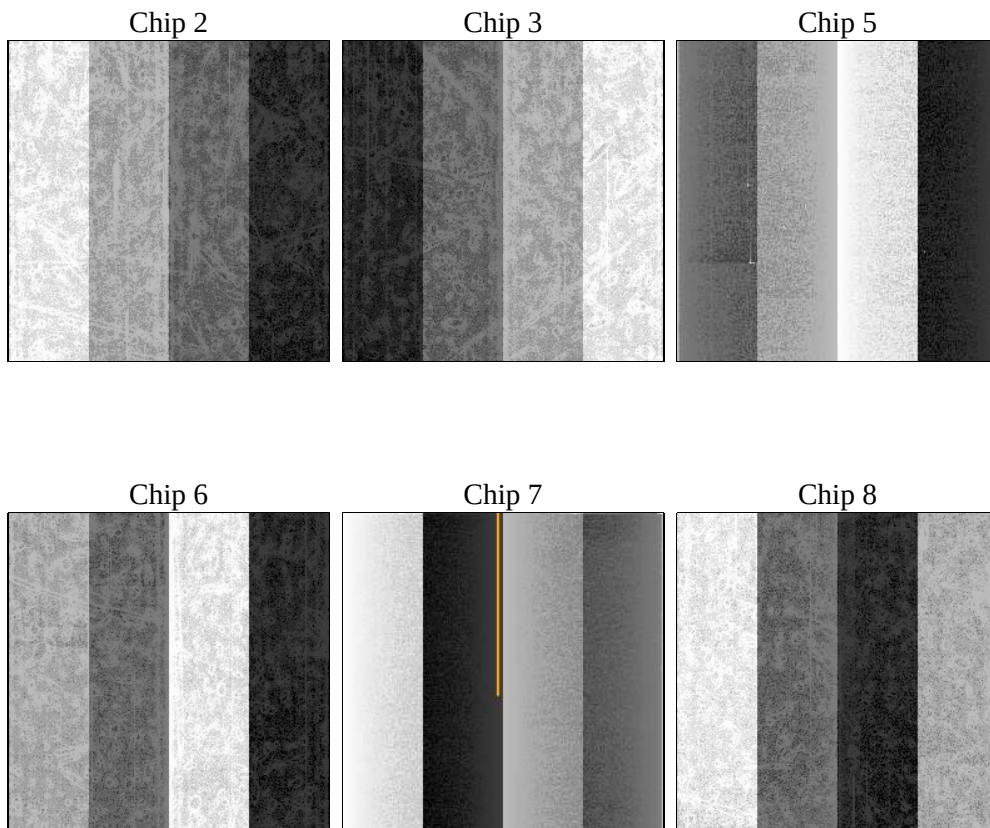
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	29926.400445938	Sum of GTIs [s]
caldsver	4.6.8	 	ontime2	29926.400445938	Sum of GTIs [s]
date	2015-08-09T05:04:42	Date and time of file creation	ontime3	29926.400445938	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	29926.400445938	Sum of GTIs [s]
			ontime6	29926.400445938	Sum of GTIs [s]
			ontime7	29926.400445938	Sum of GTIs [s]
			ontime8	29926.400445938	Sum of GTIs [s]
			l1events	1209145	Number of level 1 events

2.1.4 Events

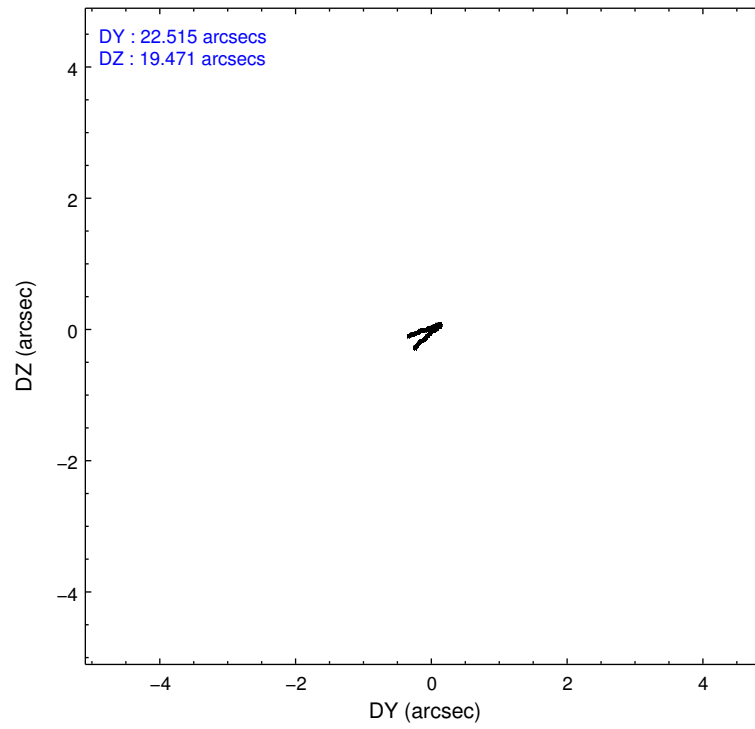
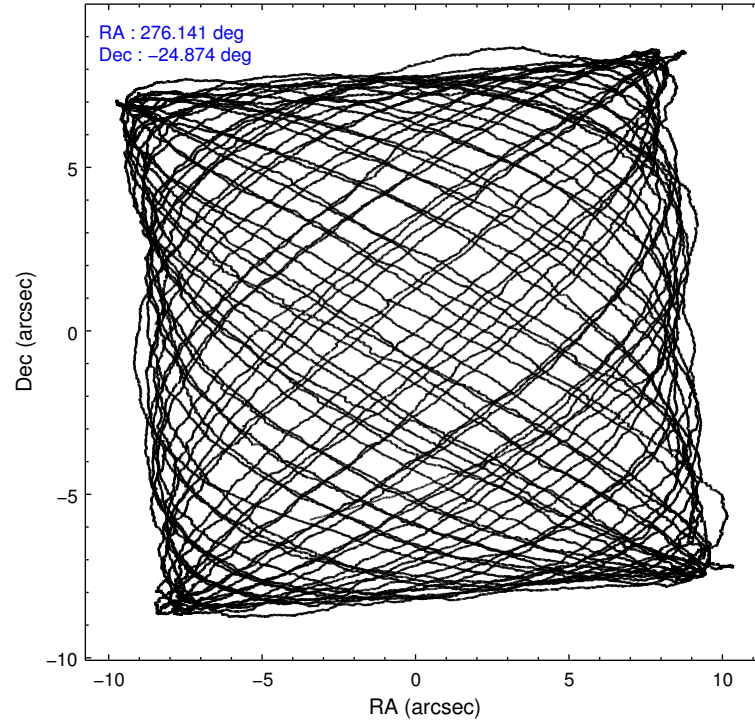
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	162400	153767	293776	164561	220725	213916	grade 0 events	7269	6800	29453	7751	9576	16883
rejected events	143710	135924	144768	144194	122481	157524		4%	4%	10%	4%	4%	7%
rejected %	88%	88%	49%	87%	55%	73%	grade 1 events	115	92	621	100	283	143
								0%	0%	0%	0%	0%	0%
							grade 2 events	4370	3748	42042	4485	20745	13202
								2%	2%	14%	2%	9%	6%
							grade 3 events	1843	1817	5005	1805	7949	5820
								1%	1%	1%	1%	3%	2%
							grade 4 events	1774	1871	4175	1832	8229	5545
								1%	1%	1%	1%	3%	2%
							grade 5 events	6658	7802	18790	7932	21743	11656
								4%	5%	6%	4%	9%	5%
							grade 6 events	3438	3614	68371	4495	51777	14967
								2%	2%	23%	2%	23%	6%
							grade 7 events	136933	128023	125319	136161	100423	145700
								84%	83%	42%	82%	45%	68%

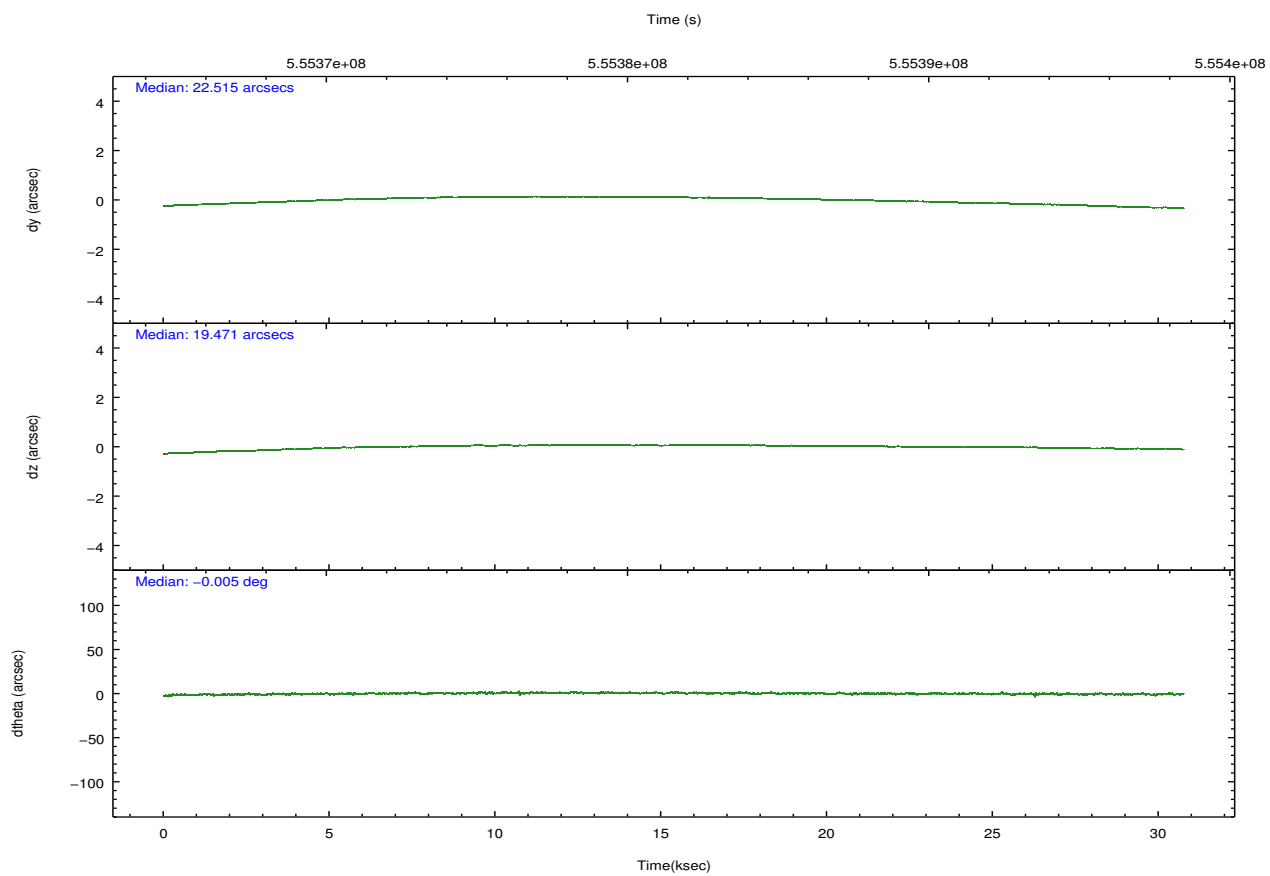
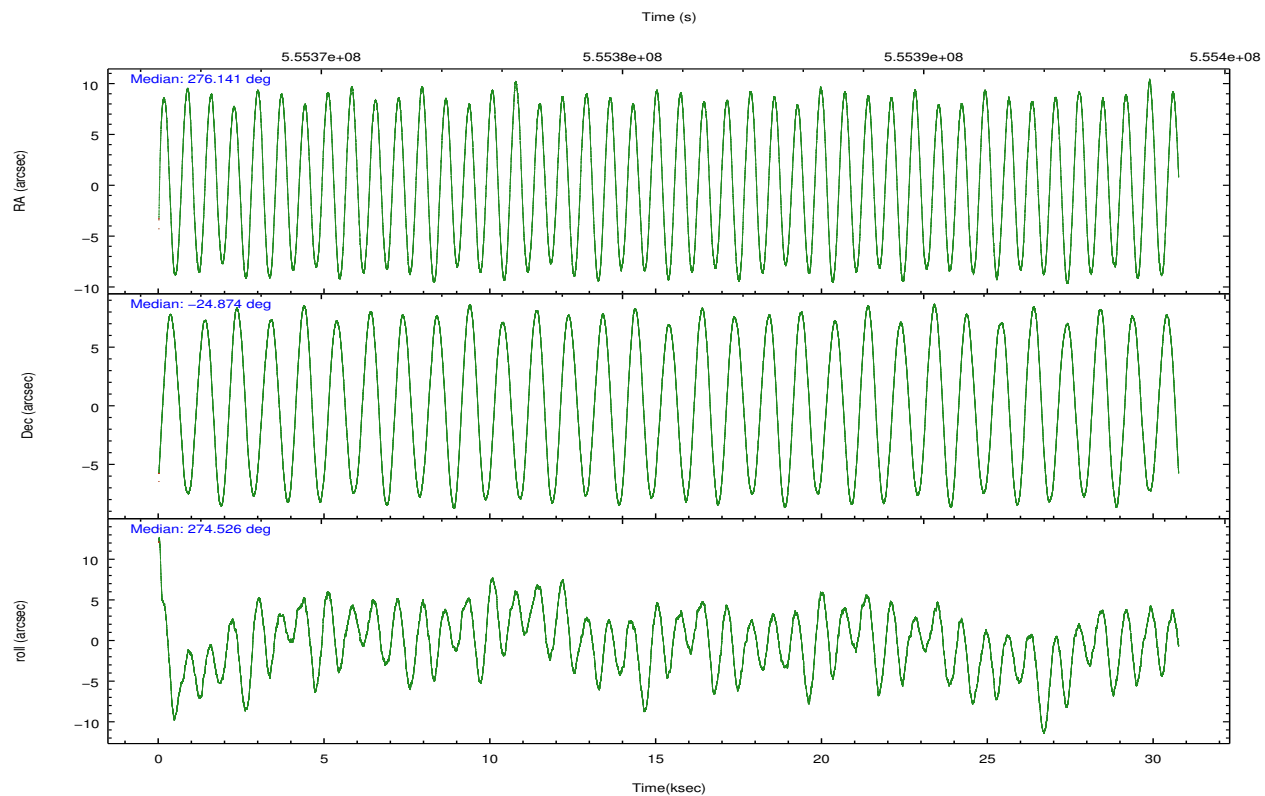
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	276.123736	276.1412294100987
[deg] Pointing Dec	-24.851362	-24.87375338323577
[deg] Pointing Roll	274.366200	274.5301835191707
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.145094680475
[mm] SIM translation stage offset	0	0.01257209746719923
[s] Observation start time (MET)	555366915.184000	555365673.37412
Observation start date	2015-08-07T20:34:07	2015-08-07T20:14:33
[s] Observation end time (MET)	555396915.184000	555397262.8509001
Observation end date	2015-08-08T04:54:07	2015-08-08T05:01:02
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	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
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	3.2

2.3 Aspect



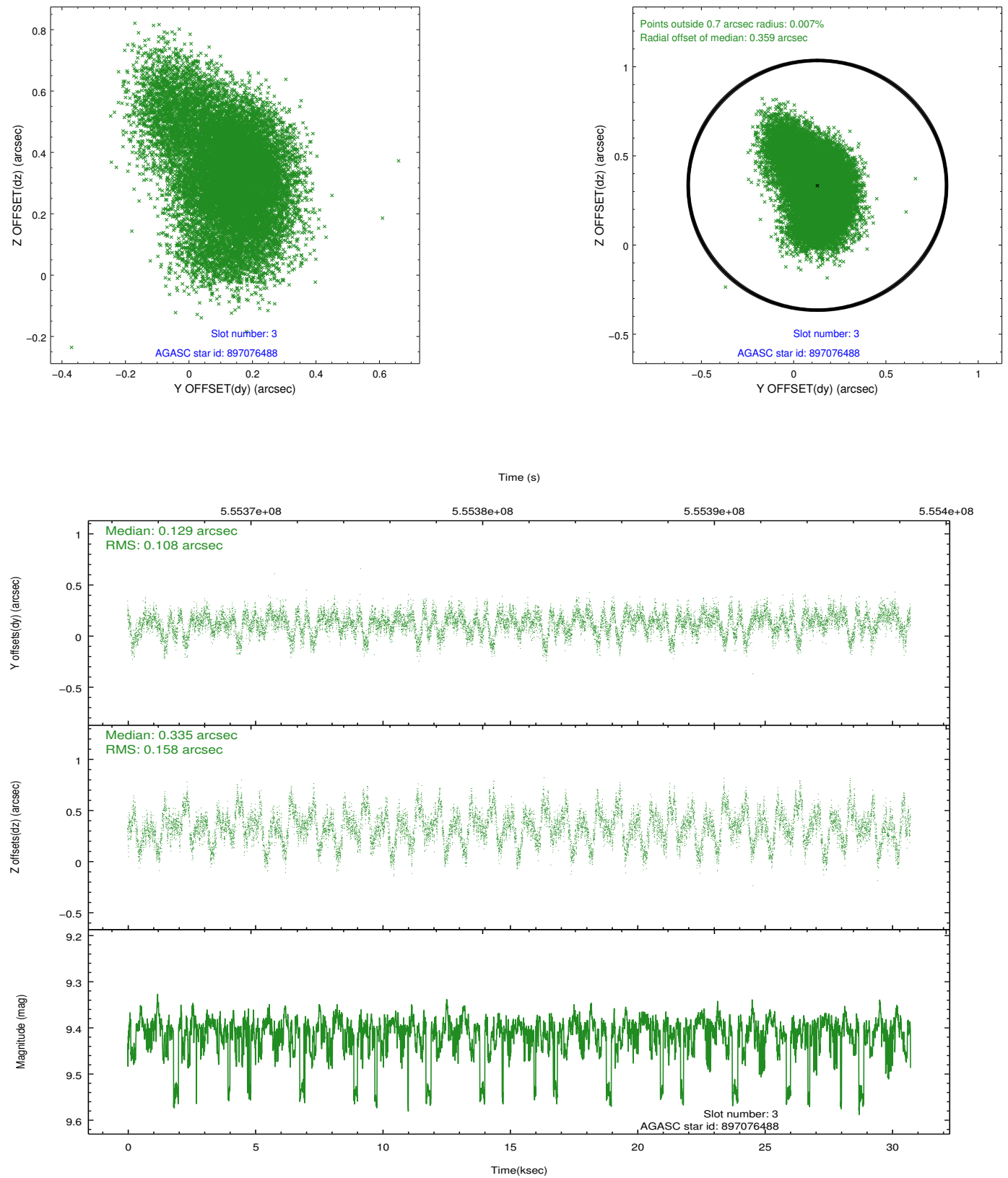


Slot Statistics

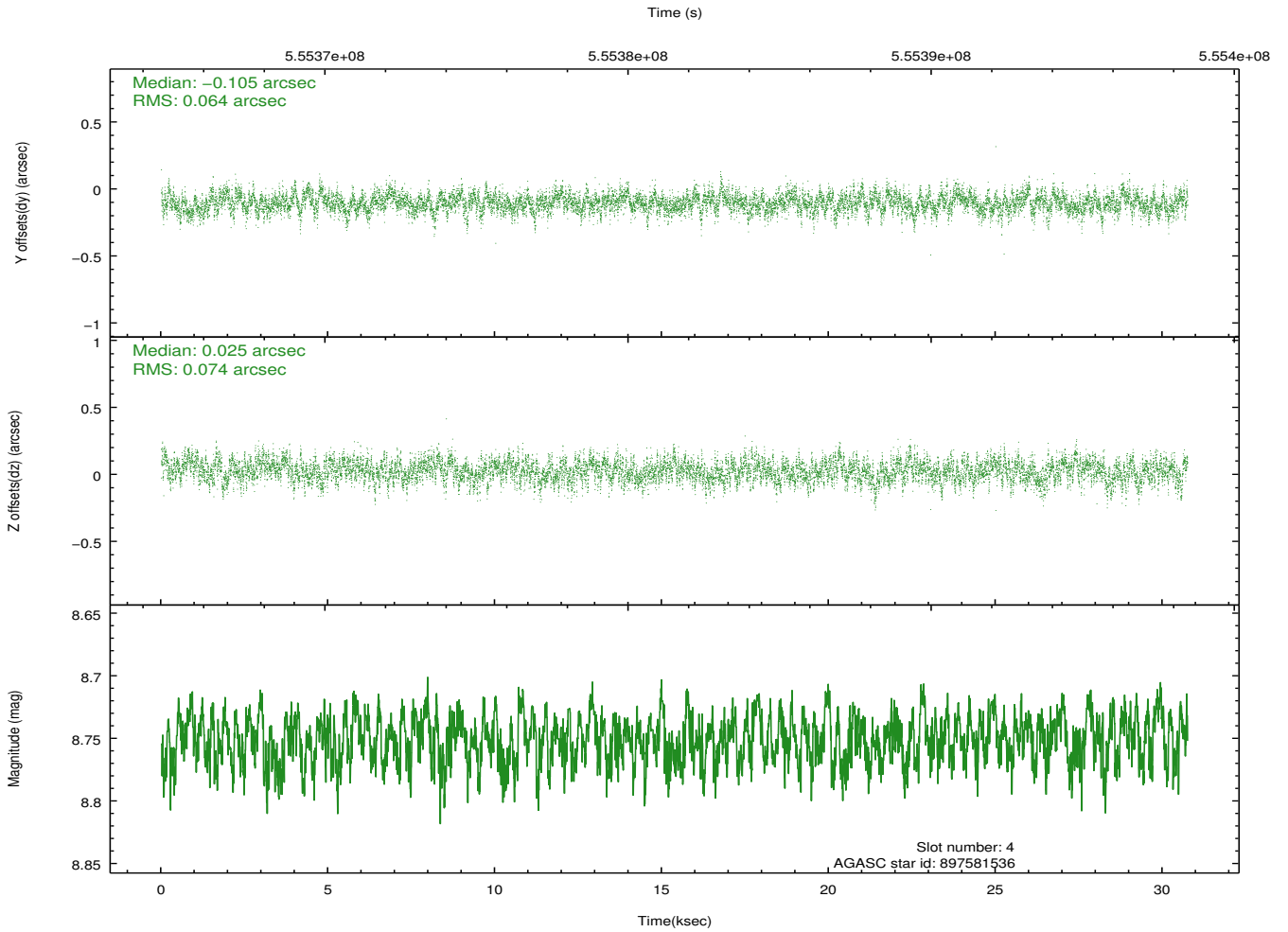
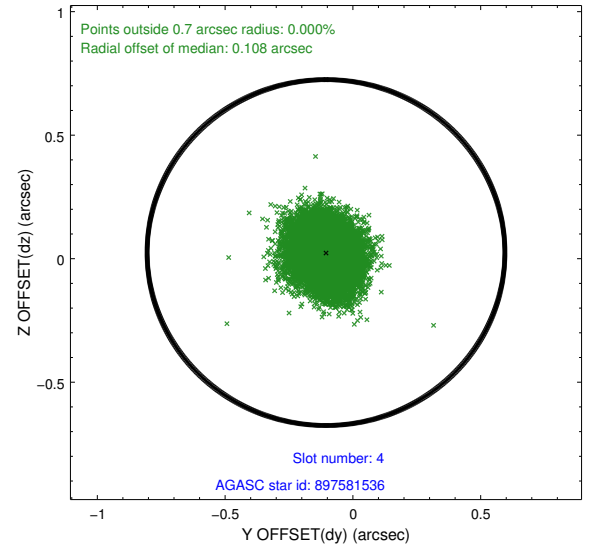
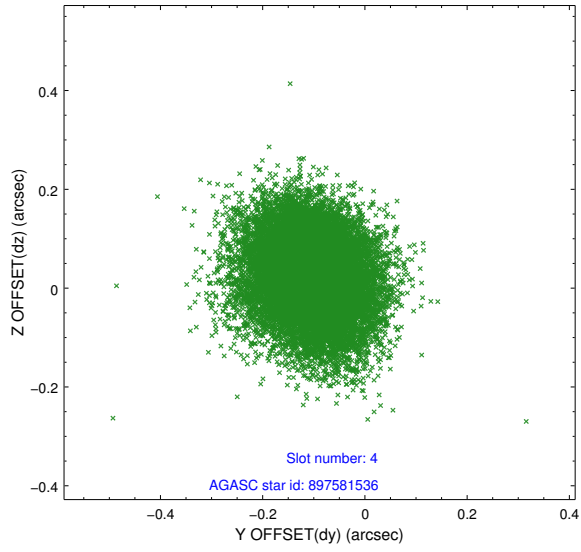
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.11	7500	0.151	0.029	0.008	0.013	0.000000	0.000000	920.51	-1736.46
1	FID		ACIS-S-2	7.02	7500	-0.201	-0.070	0.007	0.011	0.000000	0.000000	-775.71	-1741.16
2	FID		ACIS-S-6	7.26	7500	0.030	0.045	0.007	0.014	0.000000	0.000000	386.04	804.83
3	GUIDE	used	897076488	9.41	14981	0.129	0.335	0.202	0.343	275.884089	-24.287832	-2081.24	-629.50
4	GUIDE	used	897581536	8.75	14989	-0.105	0.025	0.104	0.169	276.270189	-24.414428	-1531.56	598.54
5	GUIDE	used	897585408	8.91	14991	-0.006	-0.222	0.105	0.172	276.128475	-24.385394	-1670.81	143.43
6	GUIDE	used	897607632	8.98	14989	0.157	0.054	0.128	0.212	275.528210	-25.239953	1252.24	-2040.35
7	GUIDE	used	899295912	9.16	14991	-0.162	-0.194	0.186	0.264	276.702891	-25.456161	2318.47	1711.20

2.4 Star Slots

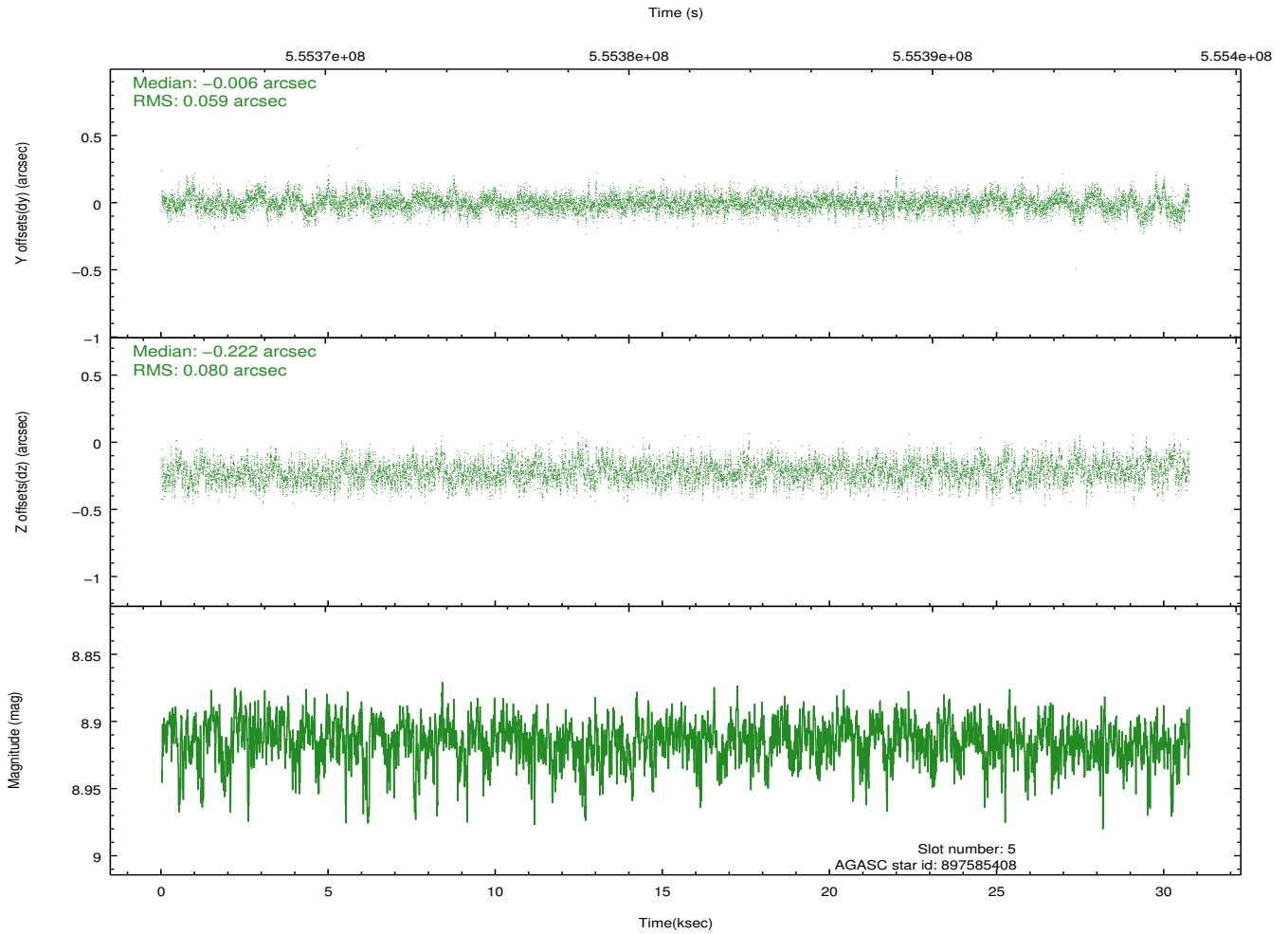
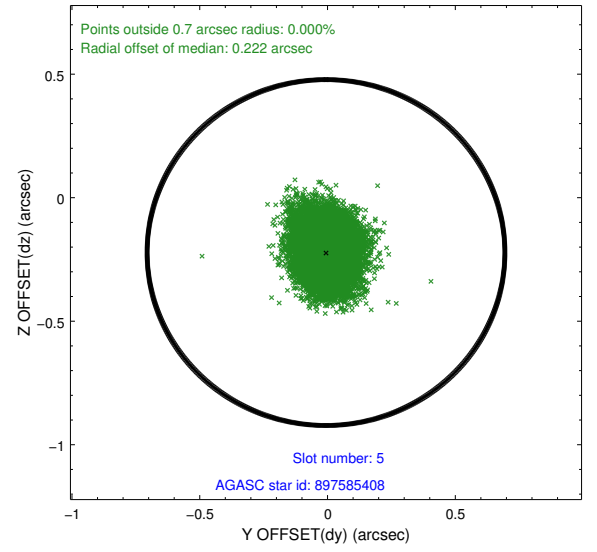
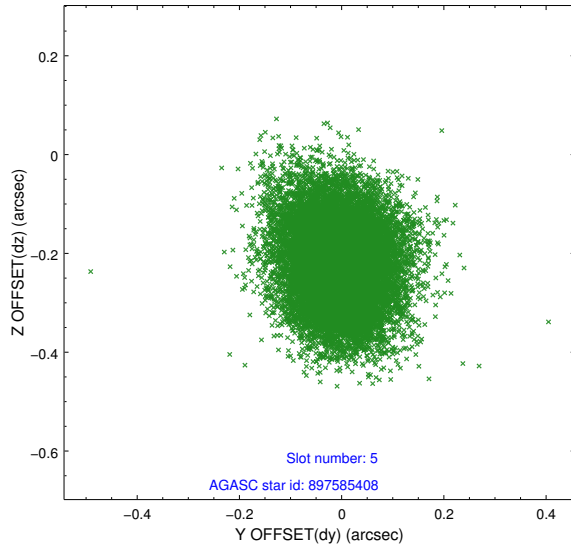
2.4.1 Slot 3



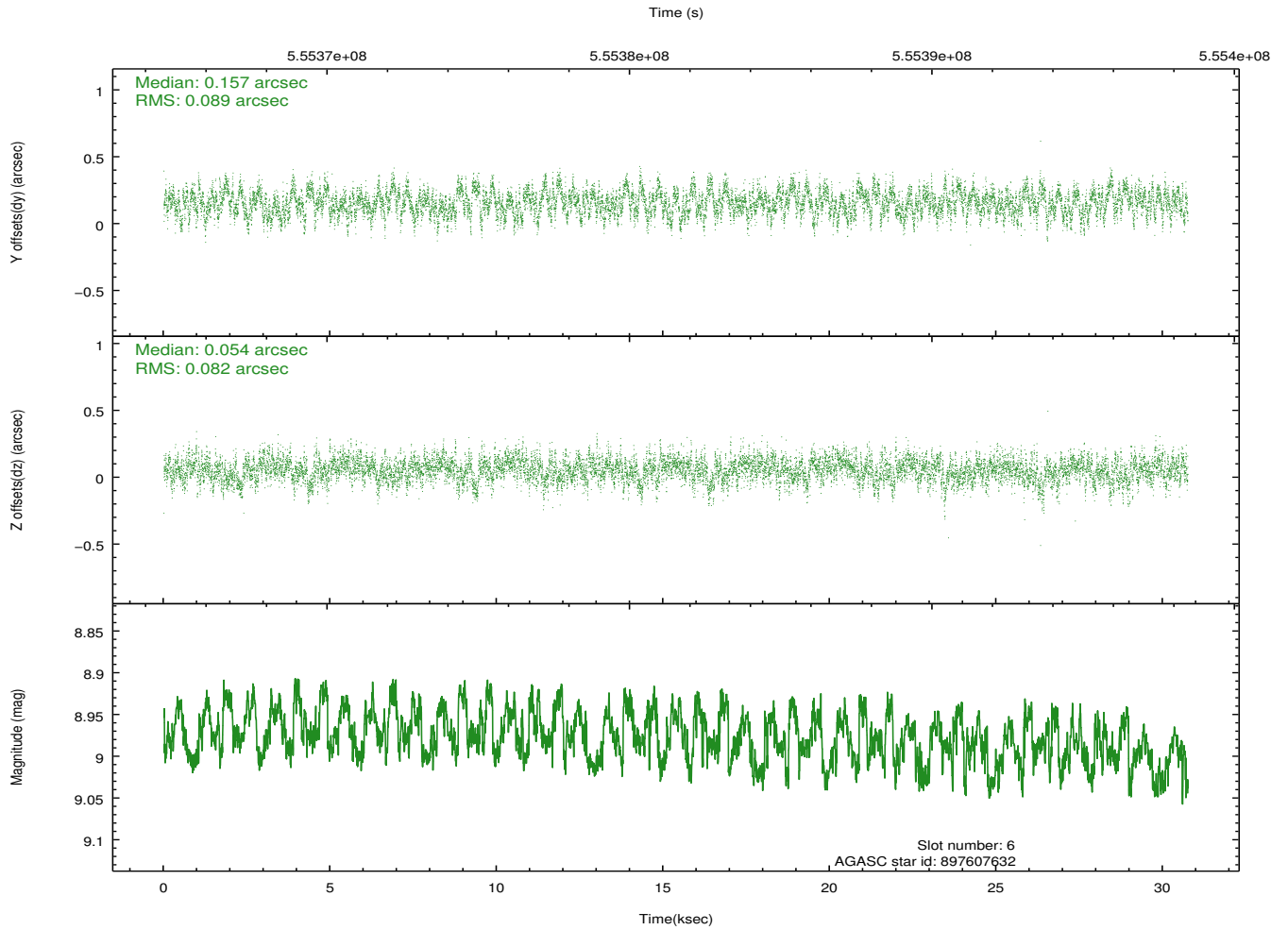
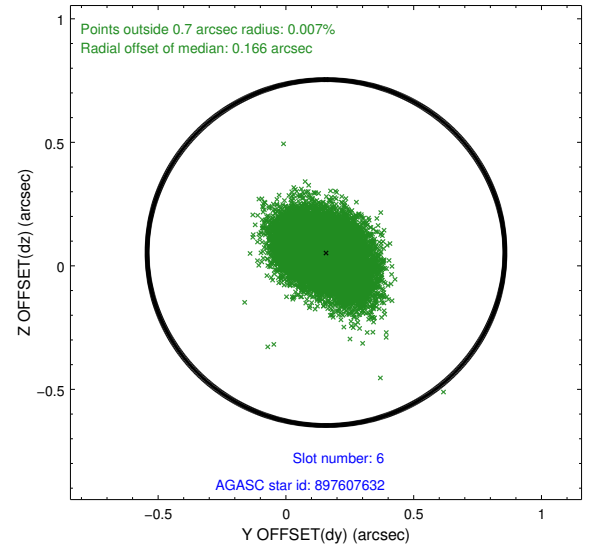
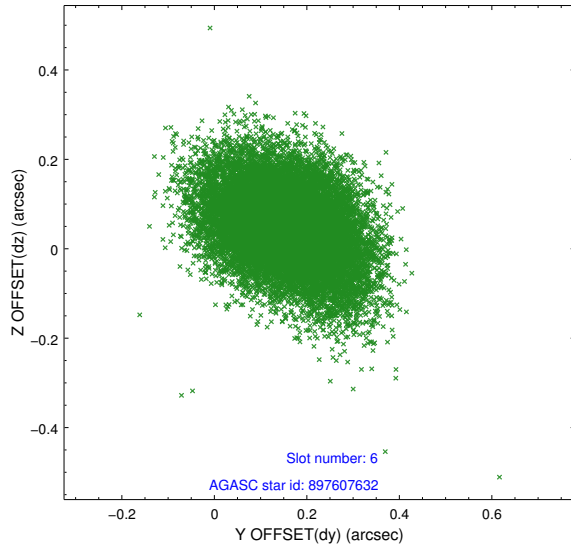
2.4.2 Slot 4



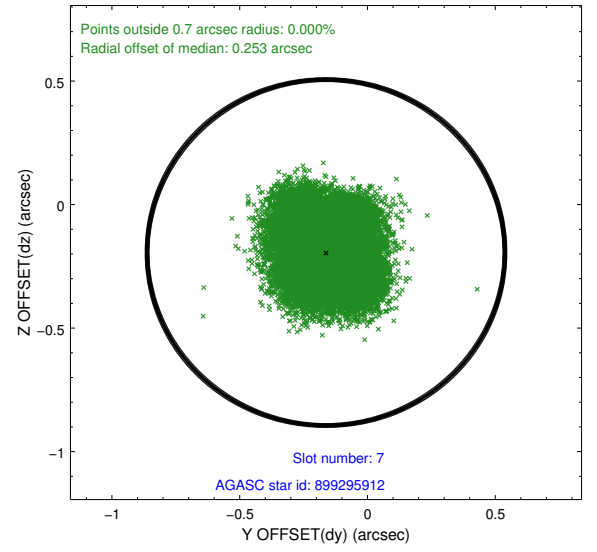
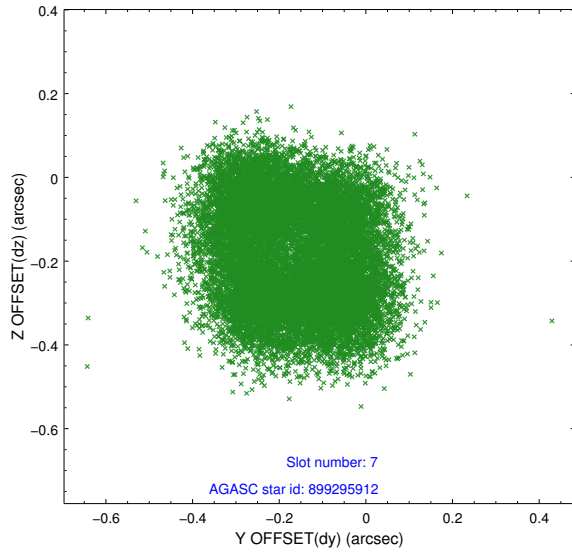
2.4.3 Slot 5



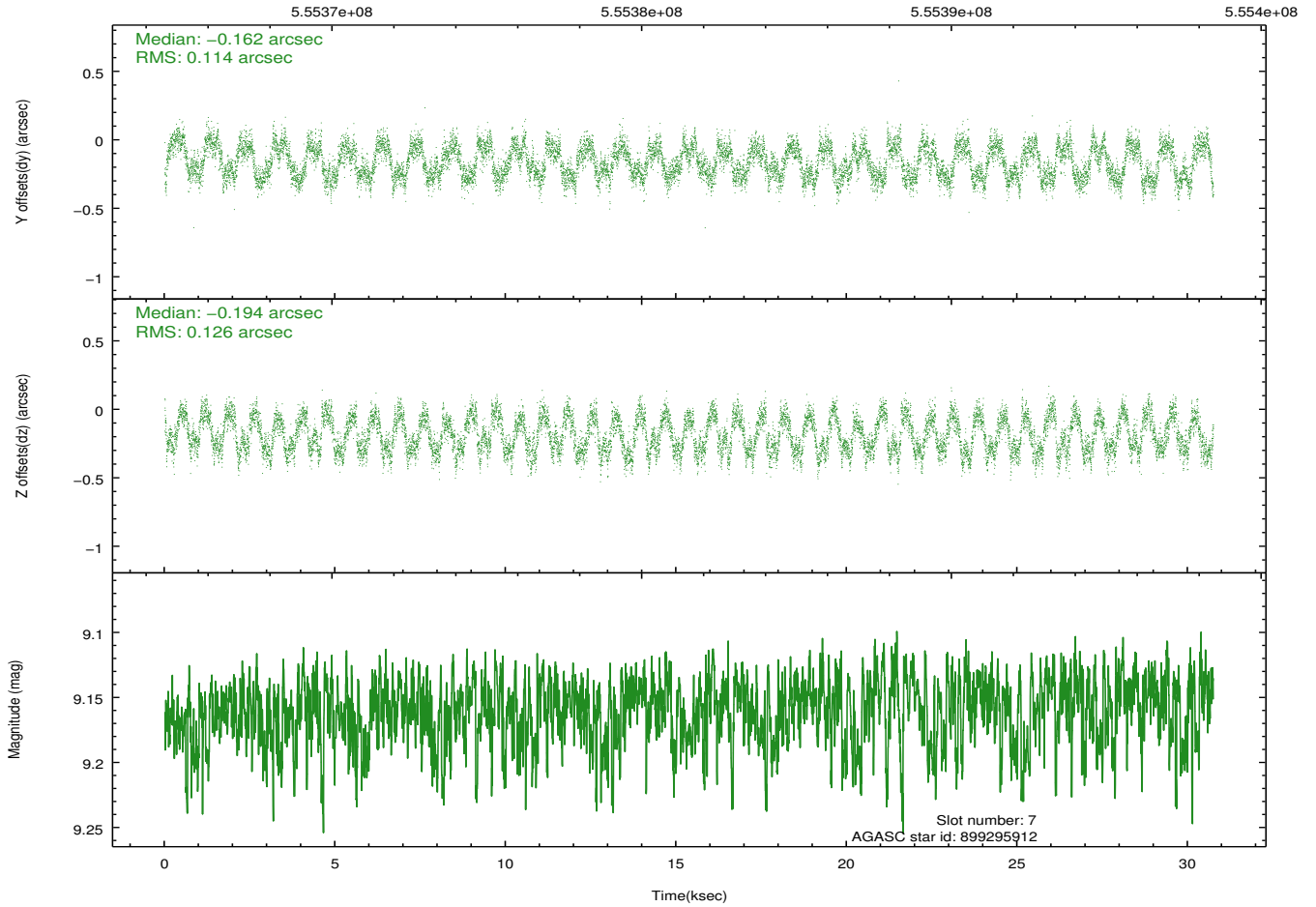
2.4.4 Slot 6



2.4.5 Slot 7

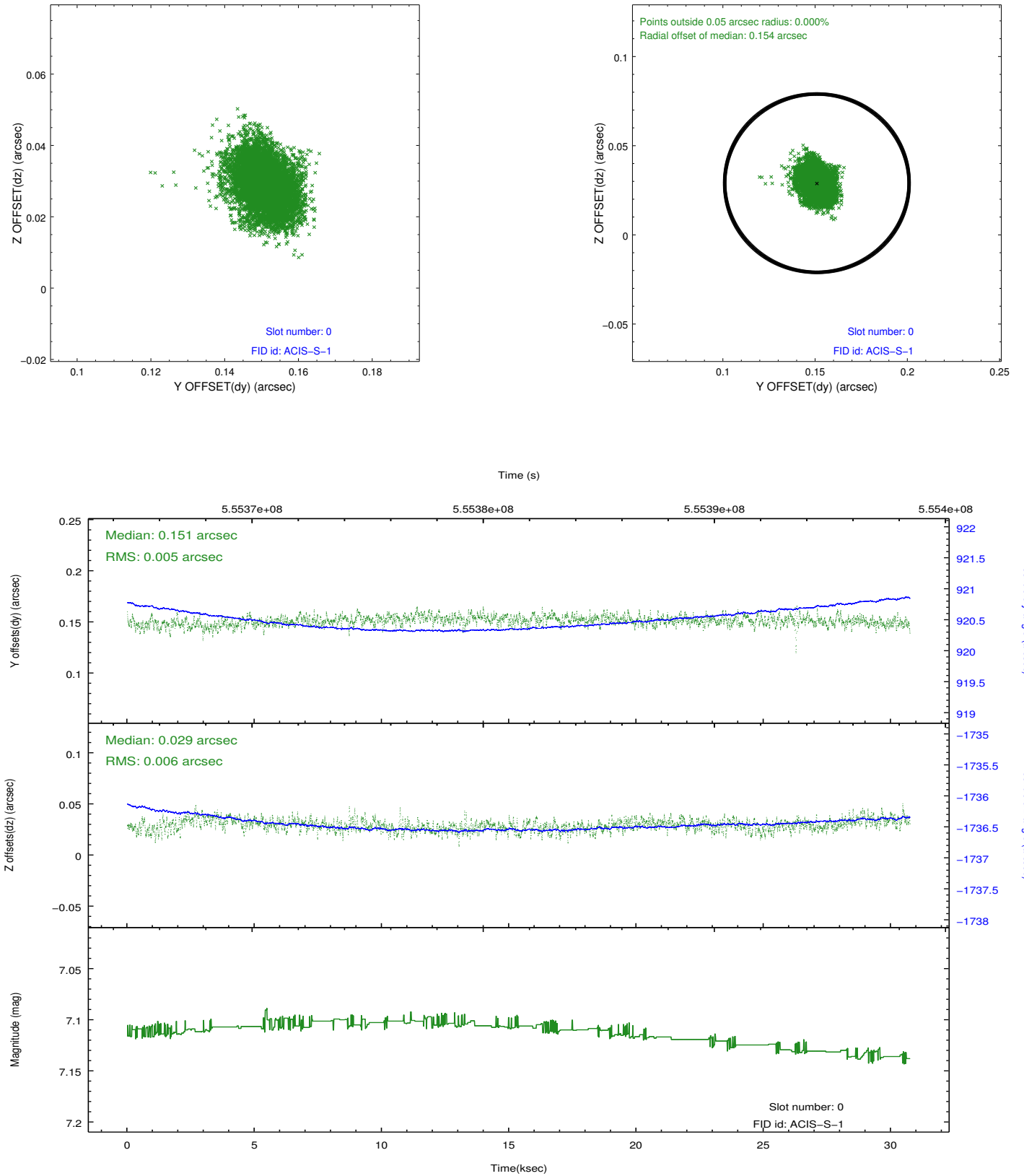


Time (s)

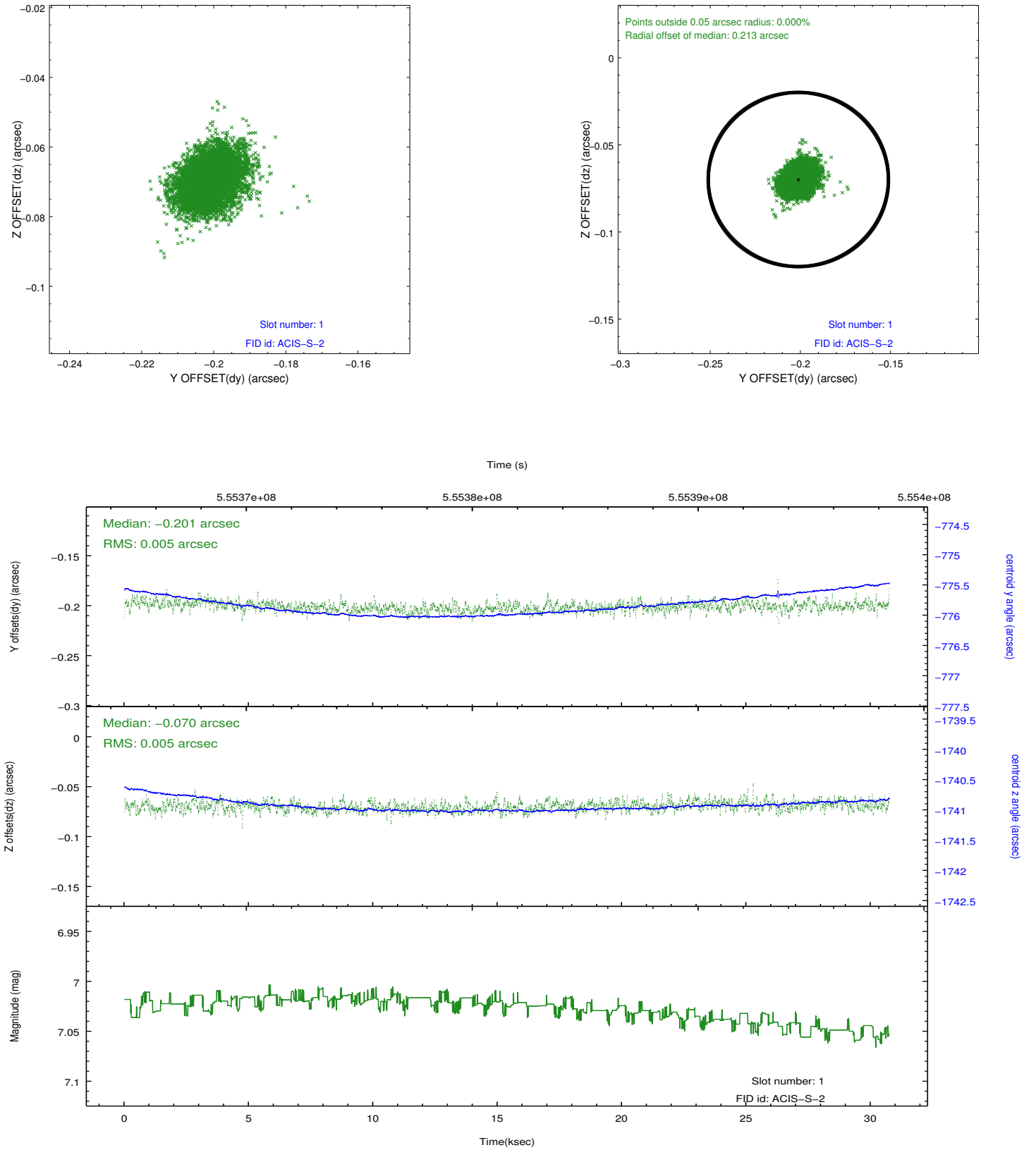


2.5 FID Slots

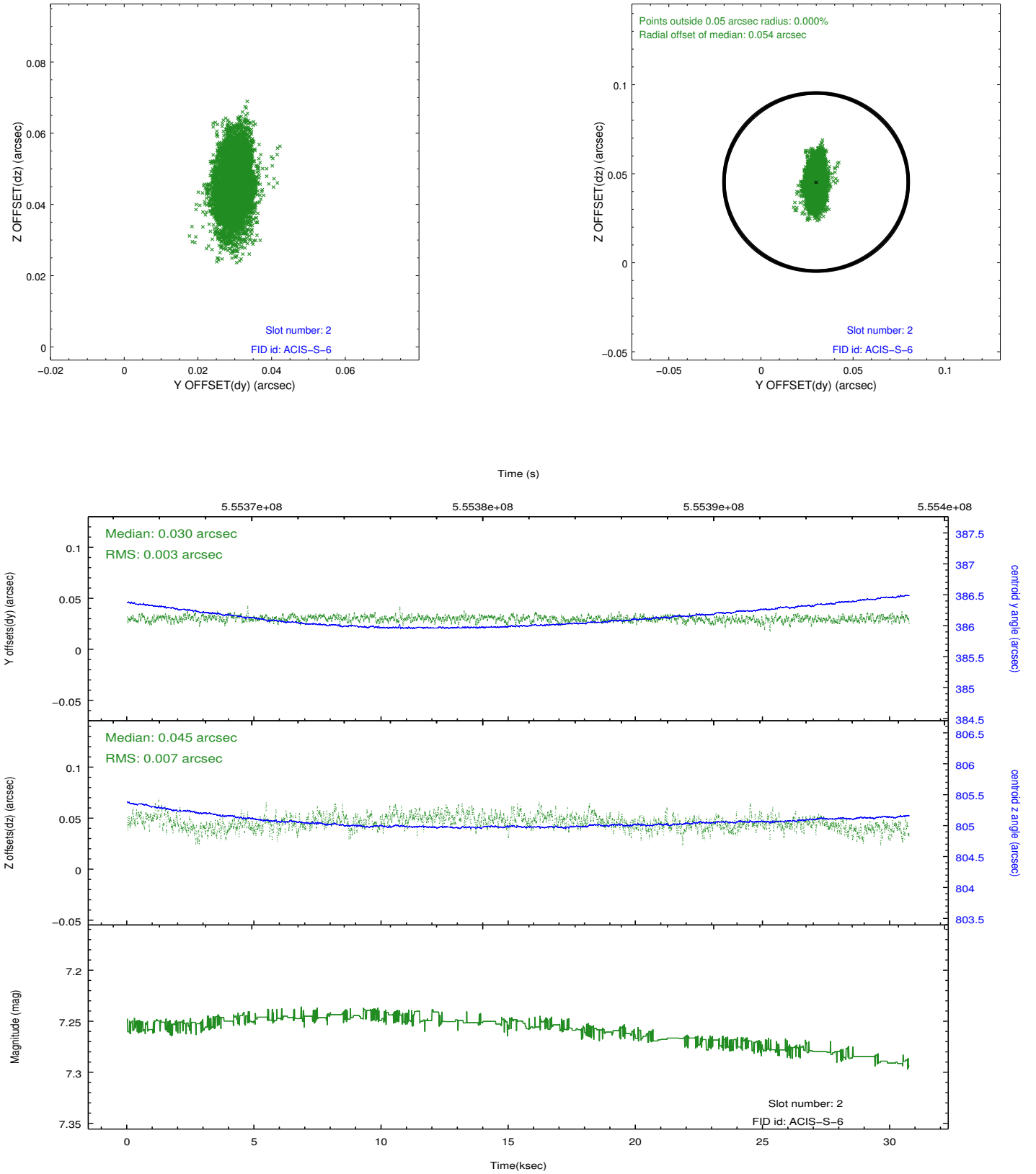
2.5.1 Slot 0



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)	2015.08.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.926400445938

A.2 Comments

Joint Proposal: NRAO. Monitor constraint met.