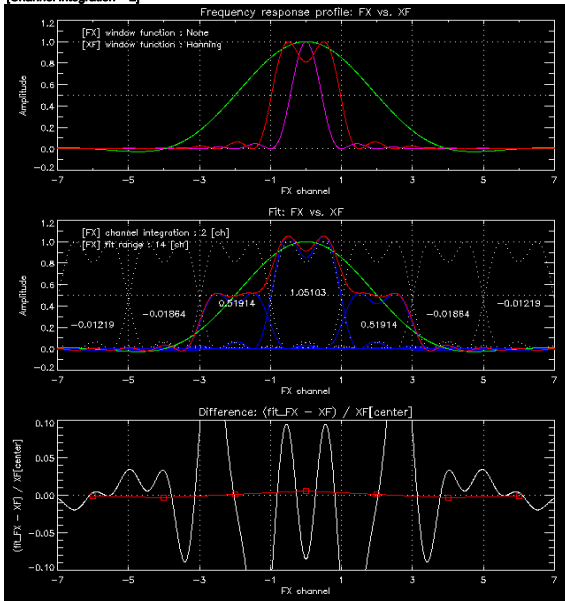


[Window function = Hanning(1)]

Window functions		Calculation parameters		Convolution function parameters								Total	Target
ACA	64	Integration	Unit	a[00]	a[01]	a[02]	a[03]	a[04]	a[05]	a[06]			
None	Hanning	2	100	-0.01219	-0.01864	0.51914	1.05103	0.51914	-0.01864	-0.01219	2.02765		
				-197.0	-301.2	8389.3	16984.7	8389.3	-301.2	-197.0	32767.0	32767	
None	Hanning	4	100	-0.00823	-0.00229	0.51196	1.01018	0.51196	-0.00229	-0.00823	2.01306		
				-134.0	-37.3	8333.3	16442.9	8333.3	-37.3	-134.0	32767.0	32767	
None	Hanning	8	100	-0.00602	0.00822	0.50813	0.98519	0.50813	0.00822	-0.00602	2.00585		
				-98.3	134.3	8300.7	16093.8	8300.7	134.3	-98.3	32767.0	32767	
None	Hanning	16	100	-0.00476	0.01484	0.50605	0.96998	0.50605	0.01484	-0.00476	2.00224		
				-77.9	242.9	8281.6	15873.9	8281.6	242.9	-77.9	32767.0	32767	
None	Hanning	32	100	-0.00403	0.01892	0.50492	0.96096	0.50492	0.01892	-0.00403	2.00048		
				-66.0	309.9	8270.4	15738.5	8270.4	309.9	-66.0	32767.0	32767	
None	Hanning	64	100	-0.00362	0.02137	0.50430	0.95547	0.50430	0.02137	-0.00362	1.99957		
				-59.3	350.2	8264.0	15657.3	8264.0	350.2	-59.3	32767.0	32767	
None	Hanning	128	10	-0.00339	0.02282	0.50397	0.95234	0.50397	0.02282	-0.00339	1.99914		
				-55.6	374.0	8260.3	15609.4	8260.3	374.0	-55.6	32767.0	32767	
None	Hanning	256	10	-0.00326	0.02366	0.50379	0.95055	0.50379	0.02366	-0.00326	1.99893		
				-53.4	387.8	8258.3	15581.7	8258.3	387.8	-53.4	32767.0	32767	
None	Hanning	512	10	-0.00319	0.02414	0.50370	0.94954	0.50370	0.02414	-0.00319	1.99884		
				-52.3	395.7	8257.2	15565.8	8257.2	395.7	-52.3	32767.0	32767	
None	Hanning	1024	10	-0.00316	0.02440	0.50365	0.94897	0.50365	0.02440	-0.00316	1.99875		
				-51.8	400.0	8256.7	15557.2	8256.7	400.0	-51.8	32767.0	32767	
None	Hanning	2048	10	-0.00314	0.02455	0.50363	0.94866	0.50363	0.02455	-0.00314	1.99874		
				-51.5	402.5	8256.4	15552.2	8256.4	402.5	-51.5	32767.0	32767	
None	Hanning	4096	10	-0.00313	0.02464	0.50361	0.94850	0.50362	0.02464	-0.00313	1.99875		
				-51.3	403.9	8256.1	15549.5	8256.2	403.9	-51.3	32767.0	32767	
None	Hanning	8192	10	-0.00312	0.02468	0.50361	0.94841	0.50361	0.02468	-0.00312	1.99875		
				-51.1	404.6	8256.1	15548.0	8256.1	404.6	-51.1	32767.0	32767	

[Channel Integration = 2]



[Frequency response profile: FX vs. XF]

Frequency response profiles of ACA Correlator and 64-Antenna Correlator

Green line: Frequency response profile of 64-Antenna Correlator with Hanning window  
 Purple line: Frequency response profile of ACA Correlator at 1 FX channel  
 Red line: Frequency response profile of ACA Correlator without Frequency Profile Synthesis

1 FX channel = 3.815 kHz (=2 GHz / 524288 channels)

[Fit: FX vs. XF]

Synthesized frequency response profile of ACA Correlator

Green line: Frequency response profile of 64-Antenna Correlator with Hanning window  
 Blue line: Weighted frequency response profiles of ACA Correlator  
 Red line: Synthesized frequency response profile of ACA Correlator from the blue lines

1 FX channel = 3.815 kHz (=2 GHz / 524288 channels)

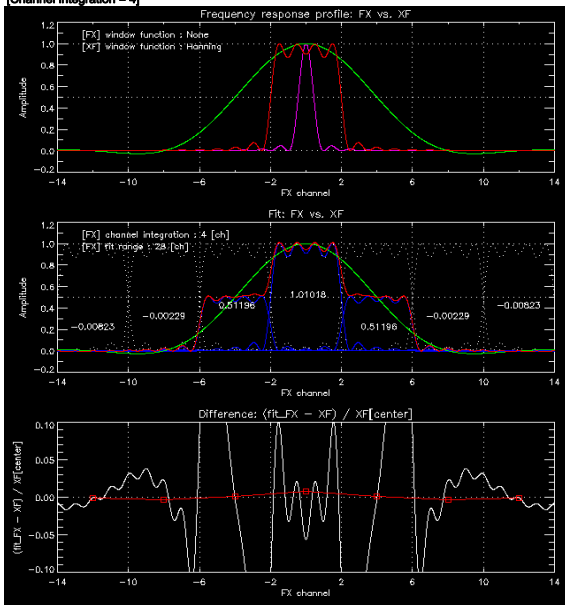
[Difference: (fit\_FX - XF) / XF[center]]

Difference of the frequency response profiles between the two correlators

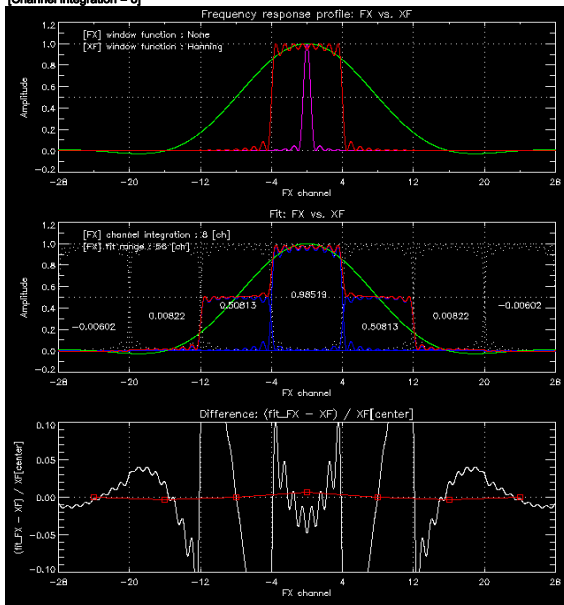
Red line: Difference of the synthesized frequency response profile of ACA Correlator from the frequency response profile of 64-Antenna Correlator with Hanning window  
 (The difference is calculated after integrating each frequency response profile up to 1 frequency channel spacing)

1 FX channel = 3.815 kHz (=2 GHz / 524288 channels)

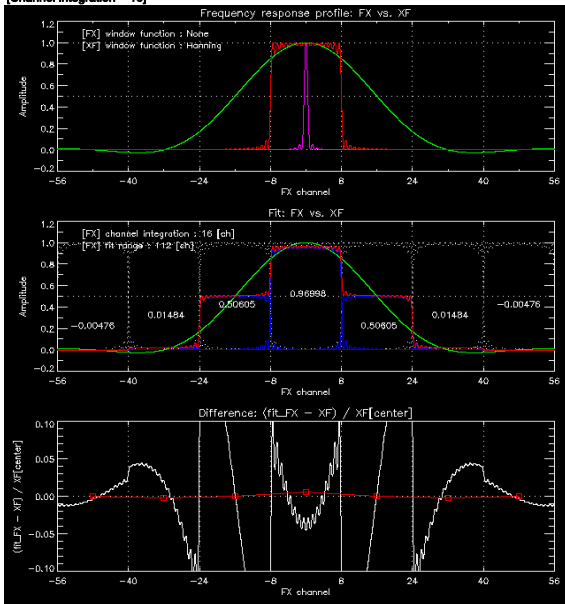
[Channel integration = 4]



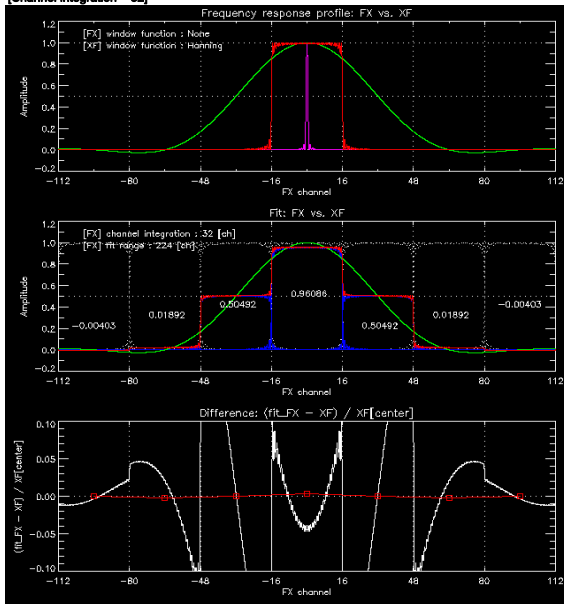
[Channel integration = 8]



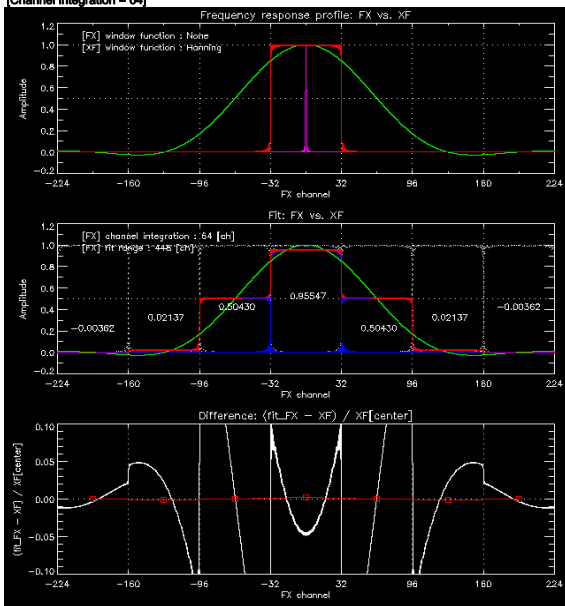
[Channel integration = 16]



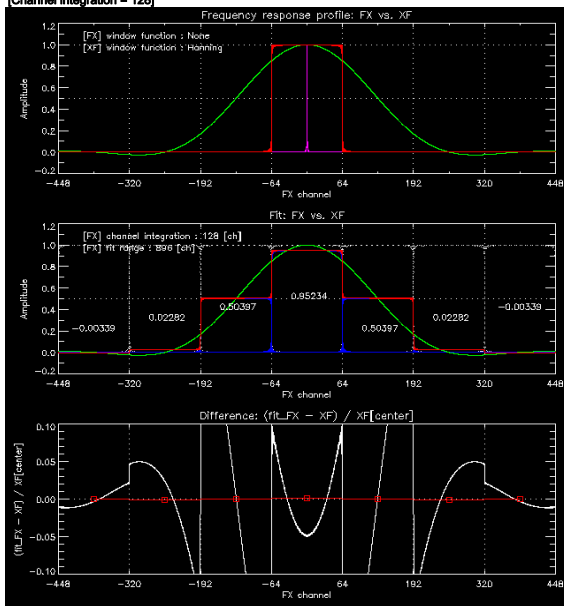
[Channel integration = 32]



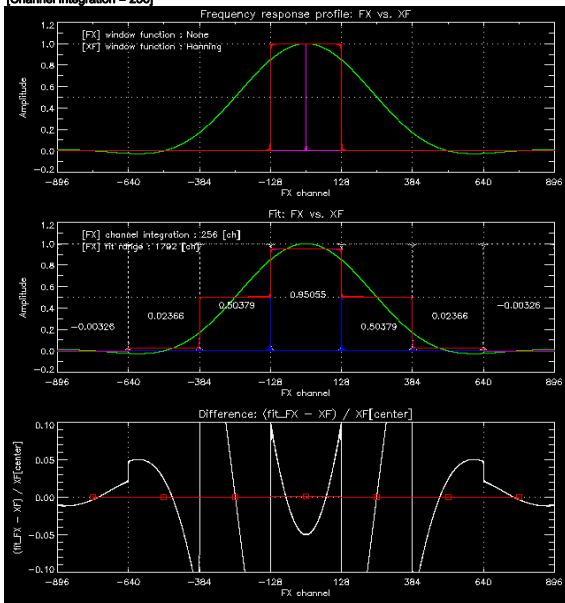
[Channel integration = 64]



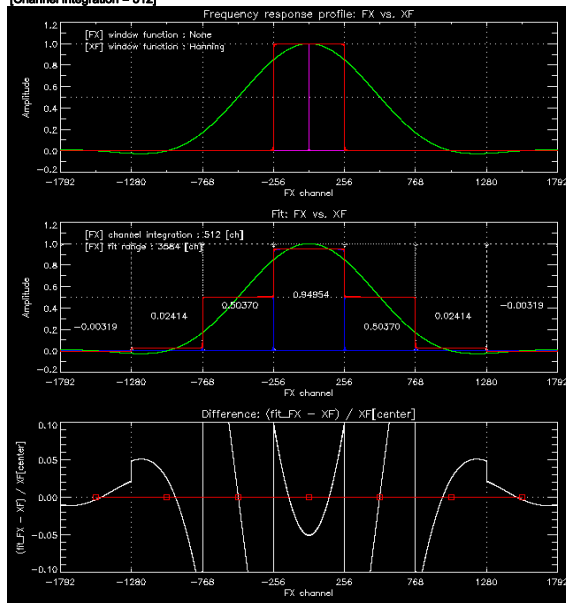
[Channel integration = 128]



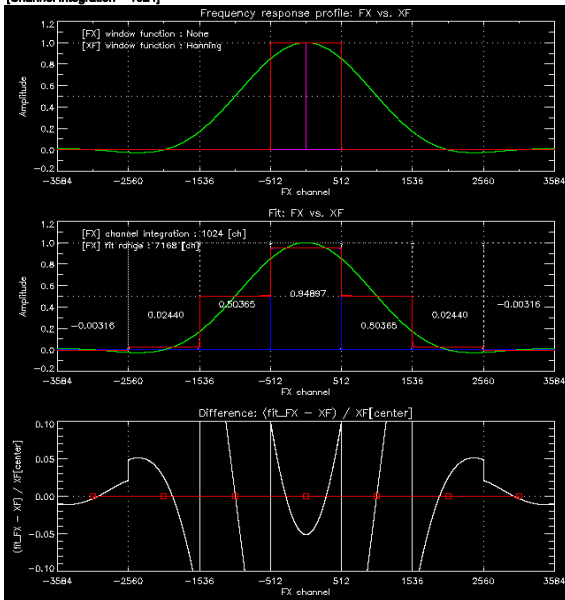
[Channel integration = 256]



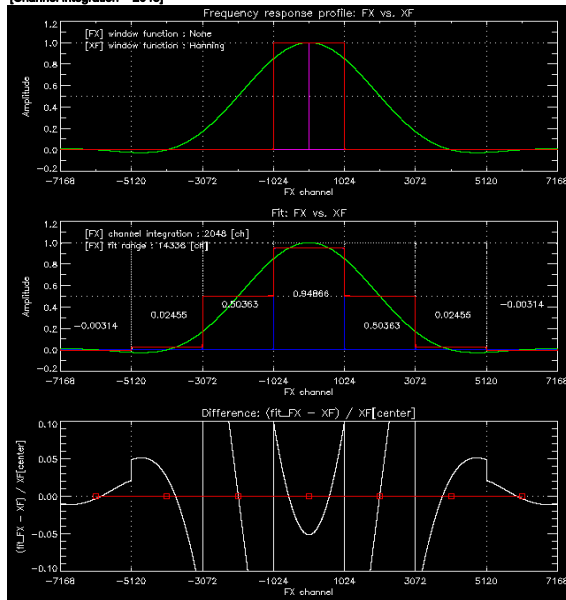
[Channel integration = 612]



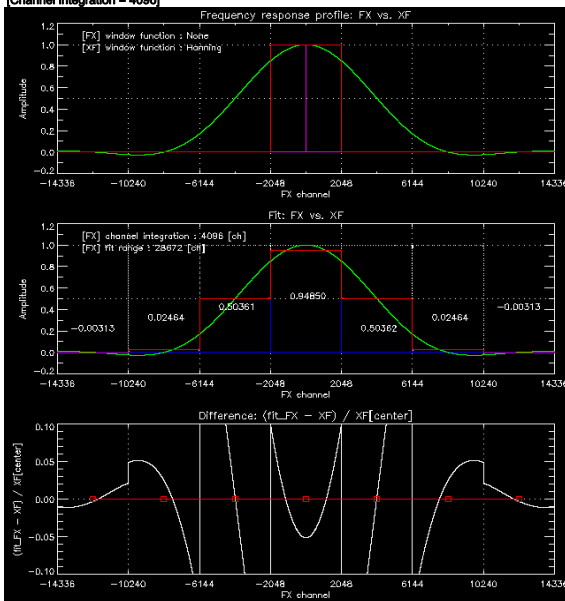
[Channel integration = 1024]



[Channel integration = 2048]



[Channel integration = 4096]



[Channel integration = 8192]

