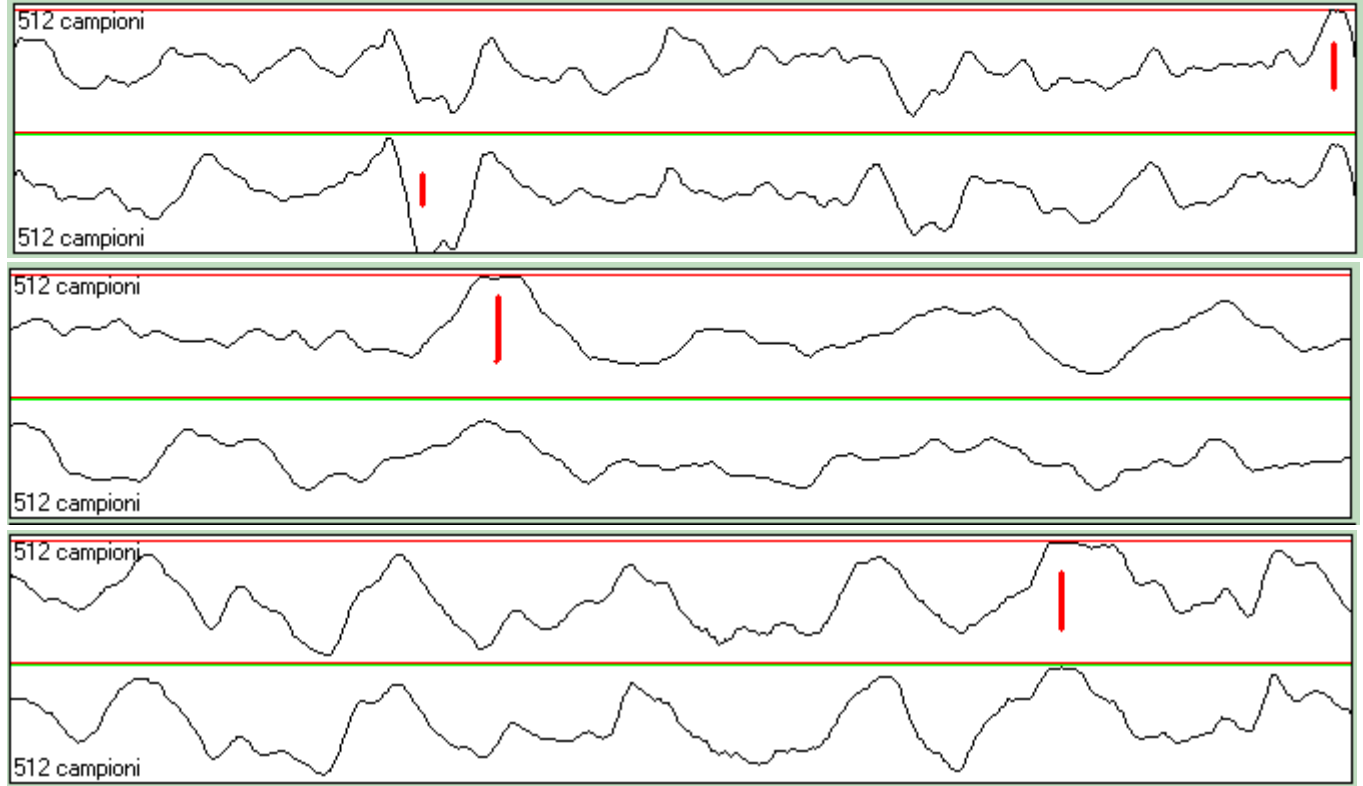


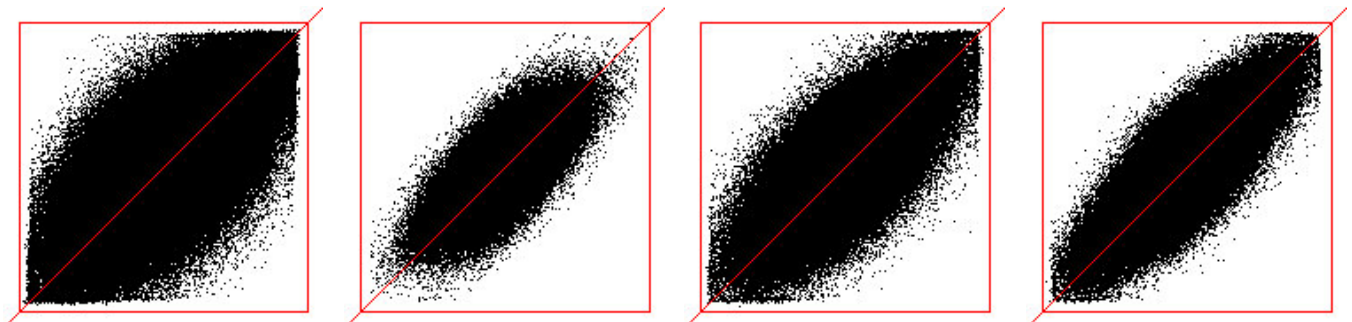
## Fattore di Cresta del segnale musicale Eugenio Finardi: "Eugenio Finardi interpreta Vladimir Vysotsky"

modificato 19 ottobre 2008

Questa analisi era presente nel sito ma è stata ritirata a causa delle polemiche Analisi del CD di Eugenio Finardi "Eugenio Finardi interpreta Vladimir Vysotsky" (Velut Luna) del 2008. Quasi tutte le tracce mostrano l'intervento del limitatore in anticipo sulla massima modulazione consentita come evidenziato dalle figure di Lissajous. . In questo CD la modulazione è elevata, il fattore di cresta è generalmente basso (massimo 7.75) e molto basso (solo 3.53) solo nella prima traccia (forse quella più trasmessa dalle emittenti radio) . Va notato che in questa registrazione non ci sono saturazioni (il picco massimo di ampiezza viene raggiunto da un solo campione per traccia) tuttavia non è difficile trovare tratti di segnale "appiattito" sulla MMR come mostrato nelle figure che seguono.



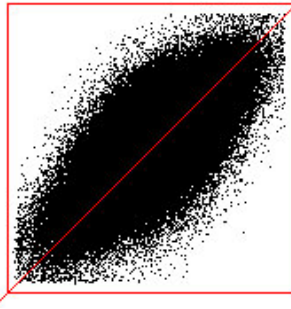
Traccia	Max	CF	Slew rate	
finardi_01	32767	3.53	1.10	cf min
finardi_02	30724	7.14	0.69	
finardi_03	31706	4.56	1.41	
finardi_04	31723	5.73	0.90	
finardi_05	31862	4.31	1.12	
finardi_06	31460	5.94	0.89	cf max
finardi_07	31614	4.34	0.98	
finardi_08	31168	6.65	0.87	
finardi_09	31624	6.49	2.13	
finardi_10	31721	5.40	0.89	
finardi_11	31733	4.76	0.93	



Traccia 1



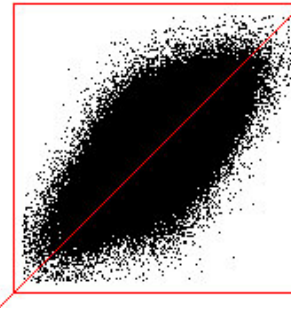
Traccia 2



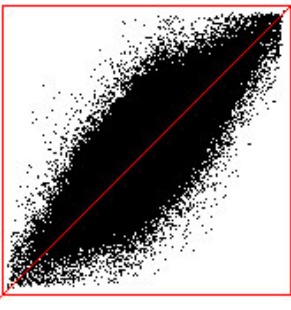
Traccia 3



Traccia 4



Traccia 5



Traccia 6



Traccia 7

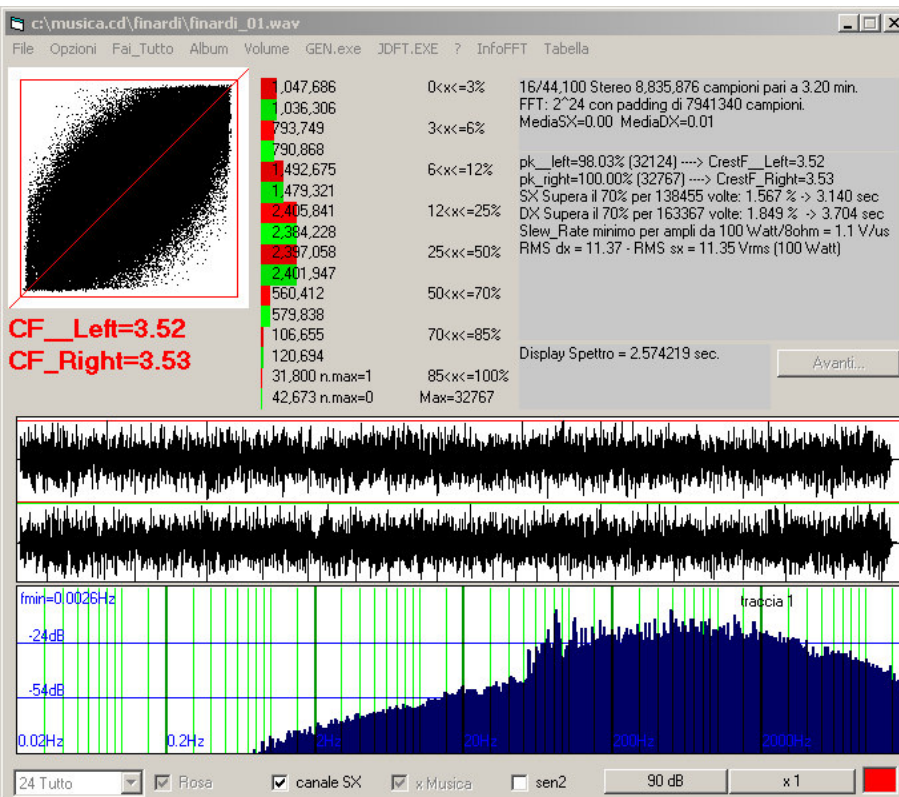


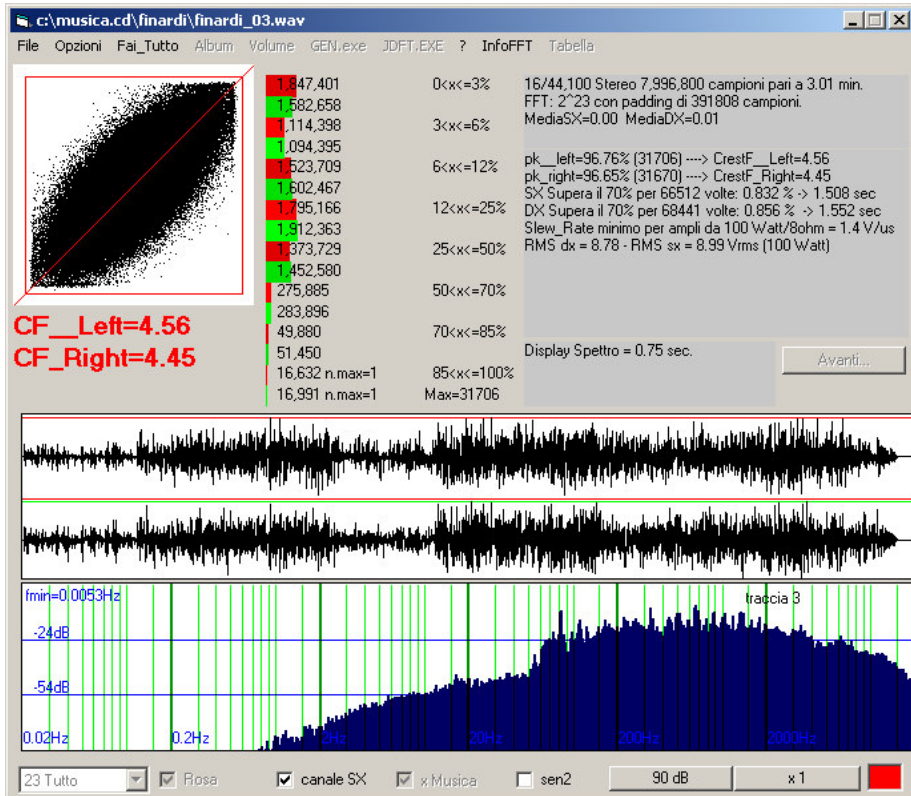
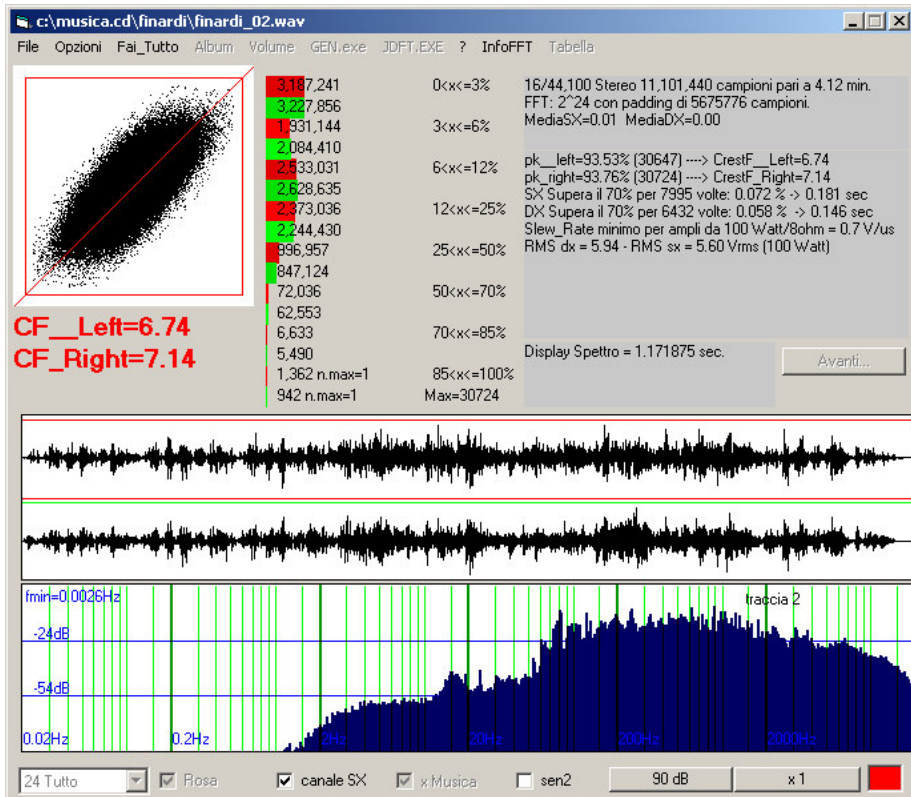
Traccia 8

Traccia 9

Traccia 10

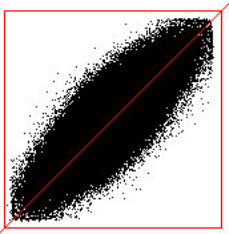
Traccia 11



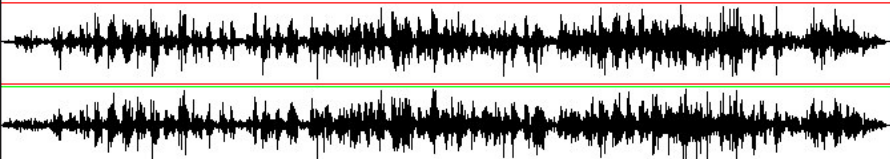
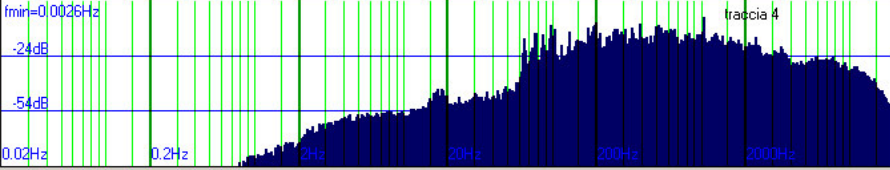


c:\musica.cd\finardi\finardi\_04.wav

File Opzioni Fai\_Tutto Album Volume GEN.exe JDFIT.EXE ? InfoFFT Tabella



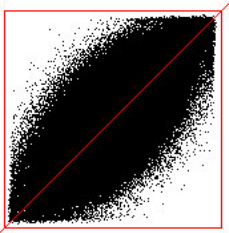
3,603,172	0<x<=3%	16/44,100 Stereo 13,744,500 campioni pari a 5.12 min.
3,235,583		FFT: 2^24 con padding di 3032716 campioni.
2,470,100	3<x<=6%	MediaSX=0.01 MediaDX=0.00
2,425,846		
3,098,727	6<x<=12%	pk_left=96.81% [31723] ----> CrestF_Left=5.73
3,157,587		pk_right=94.86% [31085] ----> CrestF_Right=5.49
2,764,545	12<x<=25%	SX Supera il 70% per 47219 volte: 0.344 % -> 1.071 sec
2,949,796		DX Supera il 70% per 47080 volte: 0.343 % -> 1.068 sec
1,525,467	25<x<=50%	Slew_Rate minimo per ampli da 100 W/att/8ohm = 0.9 V/us
1,632,720		RMS dx = 6.99 - RMS sx = 7.29 Vrms (100 Watt)
245,270	50<x<=70%	
245,888		
38,153	70<x<=85%	Display Spettro = 1.167969 sec.
37,625		<input type="button" value="Avanti..."/>
9,066 n.max=1	85<x<=100%	
9,455 n.max=1	Max=31723	

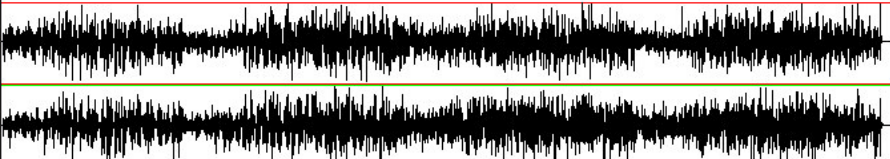
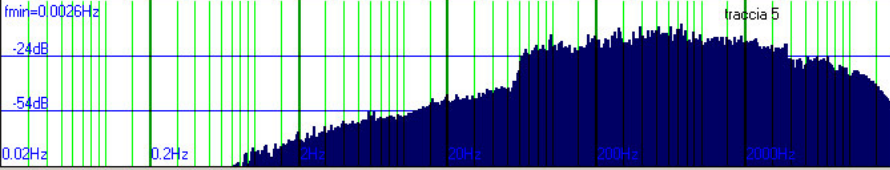
24 Tutto  Rosa  canale SX  xMusica  sen2 90 dB x 1

c:\musica.cd\finardi\finardi\_05.wav

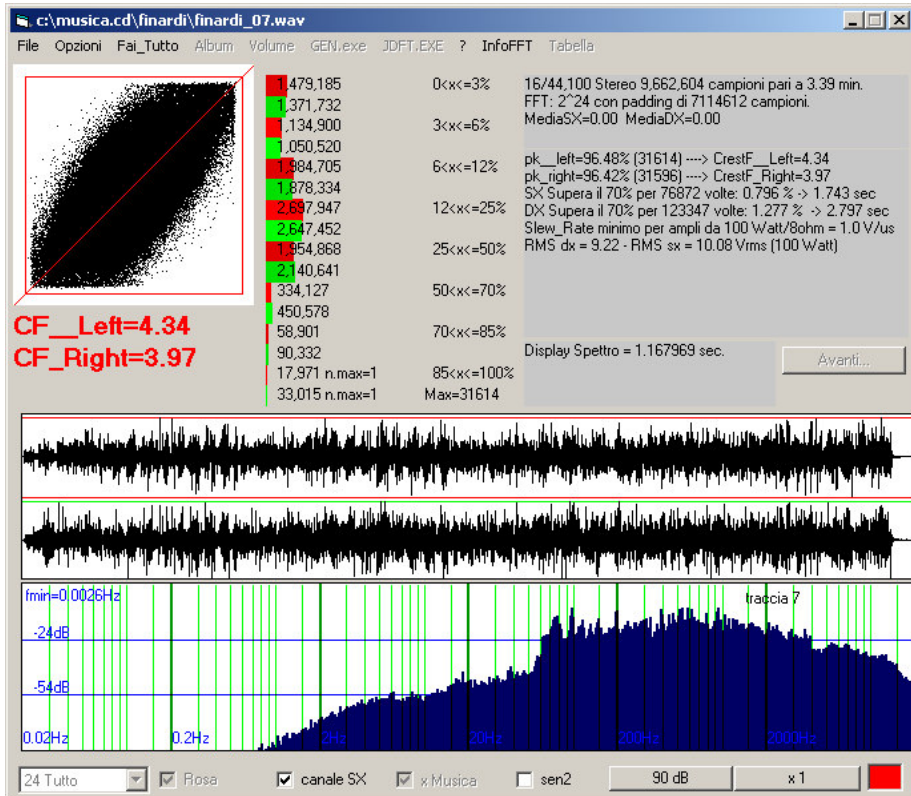
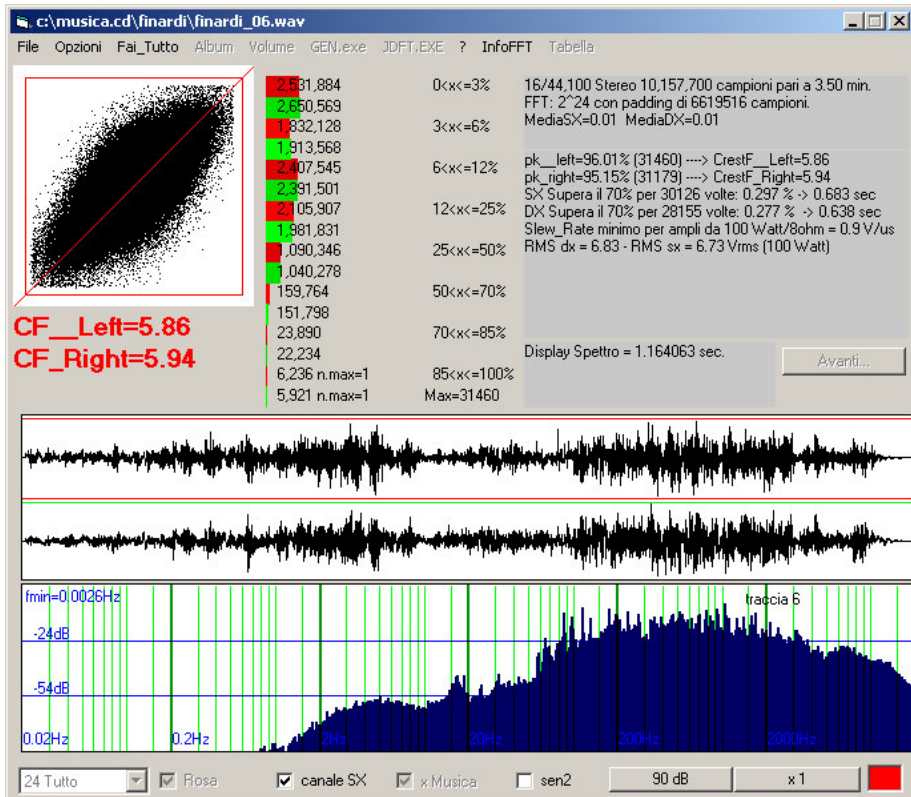
File Opzioni Fai\_Tutto Album Volume GEN.exe JDFIT.EXE ? InfoFFT Tabella



2,106,634	0<x<=3%	16/44,100 Stereo 11,389,560 campioni pari a 4.18 min.
1,932,098		FFT: 2^24 con padding di 5387656 campioni.
1,482,942	3<x<=6%	MediaSX=0.00 MediaDX=0.01
1,385,338		
2,250,803	6<x<=12%	pk_left=97.24% [31862] ----> CrestF_Left=4.31
2,175,638		pk_right=97.01% [31788] ----> CrestF_Right=4.06
2,819,692	12<x<=25%	SX Supera il 70% per 112532 volte: 0.988 % -> 2.552 sec
2,843,284		DX Supera il 70% per 135671 volte: 1.191 % -> 3.076 sec
2,173,853	25<x<=50%	Slew_Rate minimo per ampli da 100 W/att/8ohm = 1.1 V/us
2,401,451		RMS dx = 9.29 - RMS sx = 9.85 Vrms (100 Watt)
443,104	50<x<=70%	
516,080		
83,865	70<x<=85%	Display Spettro = 1.171875 sec.
100,803		<input type="button" value="Avanti..."/>
28,667 n.max=1	85<x<=100%	
34,868 n.max=1	Max=31862	

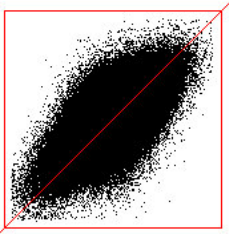



24 Tutto  Rosa  canale SX  xMusica  sen2 90 dB x 1

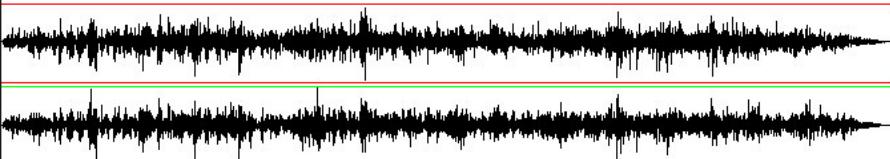
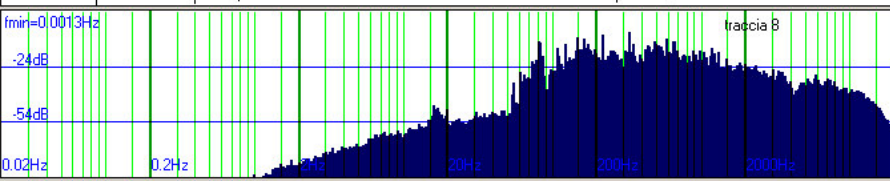


c:\musica.cd\finardi\finardi\_08.wav

File Opzioni Fai\_Tutto Album Volume GEN.exe JDFTI.EXE ? InfoFFT Tabella



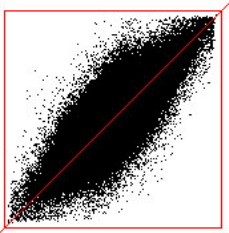
4,052,311	0<x<=3%	16/44,100 Stereo 17,552,976 campioni pari a 6.38 min.
4,090,237		FFT: 2^25 con padding di 16001456 campioni.
3,145,847	3<x<=6%	MediaSX=0.00 MediaDX=0.00
3,198,640		
4,493,468	6<x<=12%	pk_left=95.12% [31168] ----> CrestF_Left=6.57
4,485,724		pk_right=94.99% [31125] ----> CrestF_Right=6.65
4,132,130	12<x<=25%	SX Supera il 70% per 16095 volte: 0.092% -> 0.365 sec
4,111,945		DX Supera il 70% per 14022 volte: 0.080% -> 0.318 sec
1,591,159	25<x<=50%	Slew_Rate minimo per ampli da 100 Watt/Bohm = 0.9 V/us
1,551,683		RMS dx = 6.09 - RMS sx = 6.01 Vrms (100 Watt)
121,966	50<x<=70%	
110,725		
13,267	70<x<=85%	Display Spettro = 2.3125 sec.
11,511		Avanti...
2,828 n.max=1	85<x<=100%	
2,511 n.max=1	Max=31168	

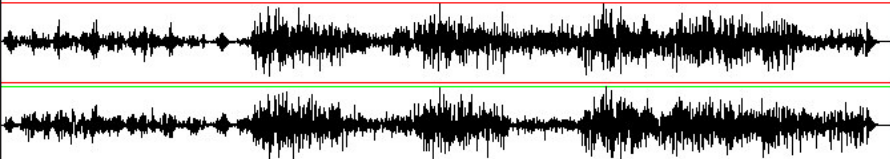
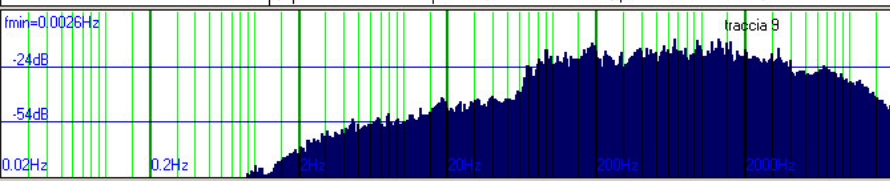
25 Tutto  Rosa  canale SX  xMusica  sen2 90 dB x 1

c:\musica.cd\finardi\finardi\_09.wav

File Opzioni Fai\_Tutto Album Volume GEN.exe JDFTI.EXE ? InfoFFT Tabella



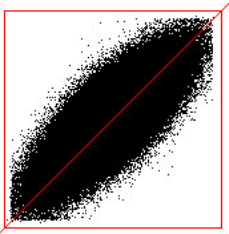
2,610,789	0<x<=3%	16/44,100 Stereo 9,066,960 campioni pari a 3.26 min.
2,524,900		FFT: 2^24 con padding di 7710256 campioni.
1,677,932	3<x<=6%	MediaSX=0.01 MediaDX=0.02
1,621,308		
2,133,132	6<x<=12%	pk_left=96.33% [31565] ----> CrestF_Left=6.40
2,048,385		pk_right=96.51% [31624] ----> CrestF_Right=6.00
1,740,271	12<x<=25%	SX Supera il 70% per 26400 volte: 0.291% -> 0.599 sec
1,819,020		DX Supera il 70% per 33487 volte: 0.369% -> 0.759 sec
774,146	25<x<=50%	Slew_Rate minimo per ampli da 100 Watt/Bohm = 2.1 V/us
389,417		RMS dx = 6.25 - RMS sx = 6.67 Vrms (100 Watt)
104,290	50<x<=70%	
130,443		
19,625	70<x<=85%	Display Spettro = 1.171875 sec.
24,608		Avanti...
6,775 n.max=1	85<x<=100%	
8,879 n.max=1	Max=31624	


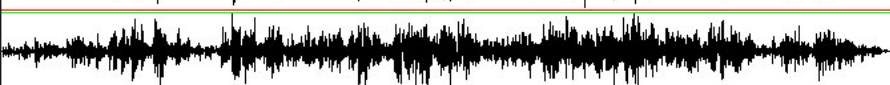
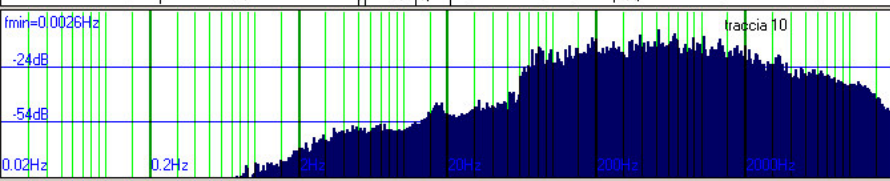
24 Tutto  Rosa  canale SX  xMusica  sen2 90 dB x 1

c:\musica.cd\finardi\finardi\_10.wav

File Opzioni Fai\_Tutto Album Volume GEN.exe JDFTI.EXE ? InfoFFT Tabella



3,25,065	0<x<=3%	16/44,100 Stereo 14,564,760 campioni pari a 5.30 min.
3,372,018		FFT: 2^24 con padding di 2212456 campioni.
2,319,202	3<x<=6%	MediaSX=0.00 MediaDX=0.00
2,411,004		
3,237,619	6<x<=12%	pk_left=96.80% [31721] ----> CrestF_Left=5.16
3,264,810		pk_right=96.39% [31586] ----> CrestF_Right=5.40
3,403,916	12<x<=25%	SX Supera il 70% per 58765 volte: 0.403 % -> 1.333 sec
3,285,825		DX Supera il 70% per 49251 volte: 0.338 % -> 1.117 sec
2,097,869	25<x<=50%	Slew_Rate minimo per ampli da 100 W/att/8ohm = 0.9 V/us
1,907,105		RMS dx = 7.74 - RMS sx = 7.40 Vrms (100 Watt)
322,324	50<x<=70%	
274,747		
47,067	70<x<=85%	
39,505		Display Spettro = 1.171875 sec.
11,698 n.max=1	85<x<=100%	<input type="button" value="Avanti..."/>
9,746 n.max=1	Max=31721	

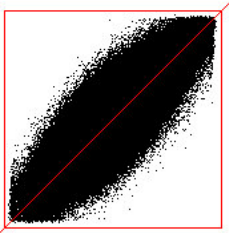
fmir=0.0026Hz traccia 10

0.02Hz 0.2Hz 2Hz 20Hz 200Hz 2000Hz

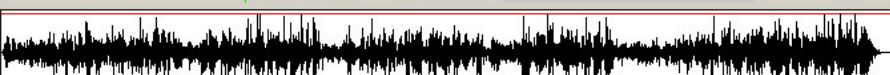

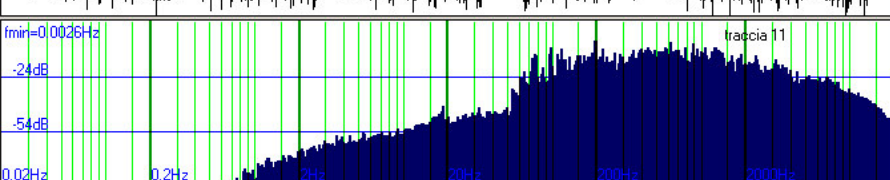
24 Tutto  Rosa  canale SX  xMusica  sen2 90 dB x 1

c:\musica.cd\finardi\finardi\_11.wav

File Opzioni Fai\_Tutto Album Volume GEN.exe JDFTI.EXE ? InfoFFT Tabella



2,458,357	0<x<=3%	16/44,100 Stereo 13,963,824 campioni pari a 5.17 min.
2,161,008		FFT: 2^24 con padding di 2813392 campioni.
2,007,200	3<x<=6%	MediaSX=0.00 MediaDX=0.00
1,773,696		
3,223,002	6<x<=12%	pk_left=96.58% [31648] ----> CrestF_Left=4.76
3,030,091		pk_right=96.84% [31733] ----> CrestF_Right=4.43
3,629,587	12<x<=25%	SX Supera il 70% per 102036 volte: 0.731 % -> 2.314 sec
3,843,246		DX Supera il 70% per 126428 volte: 0.905 % -> 2.867 sec
2,152,380	25<x<=50%	Slew_Rate minimo per ampli da 100 W/att/8ohm = 0.9 V/us
2,568,946		RMS dx = 8.41 - RMS sx = 9.04 Vrms (100 Watt)
391,262	50<x<=70%	
460,409		
77,797	70<x<=85%	
94,473		Display Spettro = 1.179688 sec.
24,239 n.max=1	85<x<=100%	<input type="button" value="Avanti..."/>
31,955 n.max=1	Max=31733	

fmir=0.0026Hz traccia 11

0.02Hz 0.2Hz 2Hz 20Hz 200Hz 2000Hz

24 Tutto  Rosa  canale SX  xMusica  sen2 90 dB x 1