COMMISSARIO STRAORDINARIO
RICOSTRUZIONE SISMA - 2016

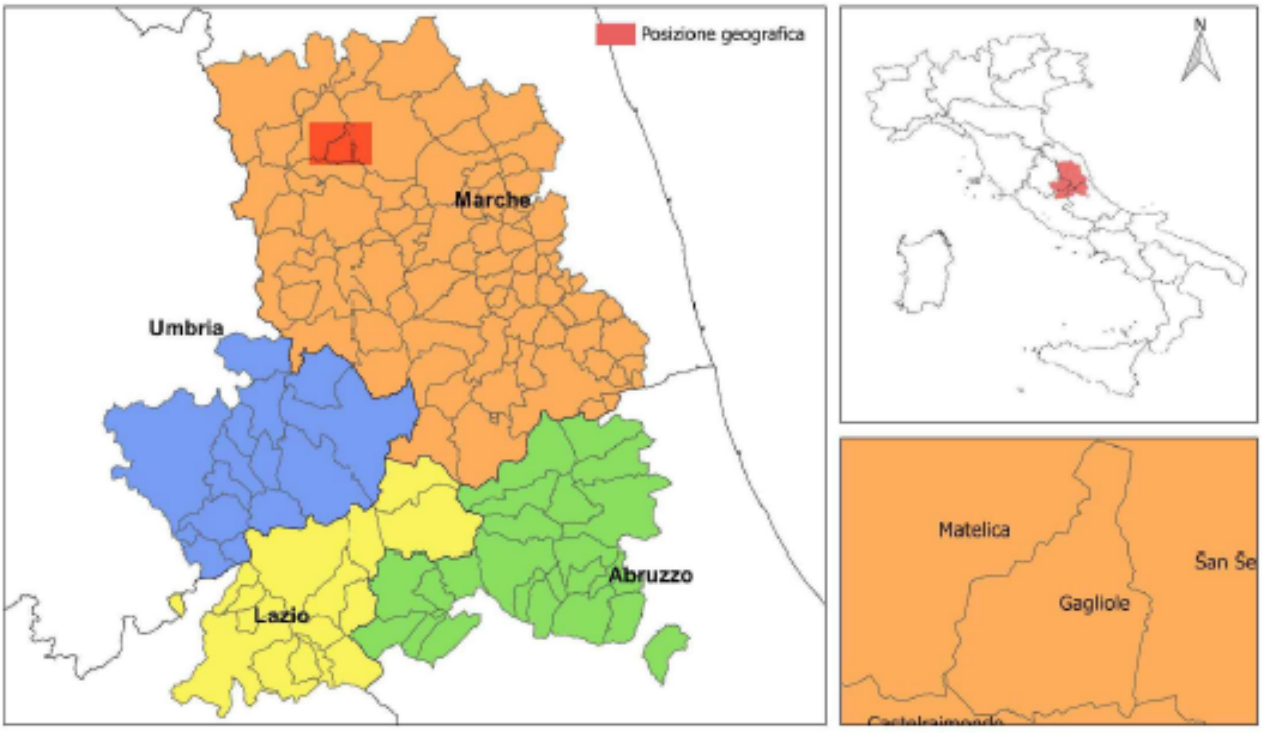
Microzonazione Sismica di Livello 3 del Comune di Gagliole ai sensi dell'Ordinanza del Commissario Straordinario n. 24 registrata il 15 maggio 2017 al n. 1065

MICROZONAZIONE SISMICA

Relazione Sintetica di Modellazione

Regione Marche

Comune di Gagliole



Soggetto realizzatore	Data e revisione	
ATP Geol. Silvia Paggi Geol. Eugenio Pistolesi Geol. Dimitri Mazza Geol. Angelo Curatolo Ing. Roberto Di Girolamo		CentroMS CENTRO PER LA MICROZONAZIONE SISMICA E LE SUE APPLICAZIONI

1. MOPS 2001

FA 0.1-0.5	FA 0.4-0.8	FA 0.7-1.1
1.05	1.01	1.00

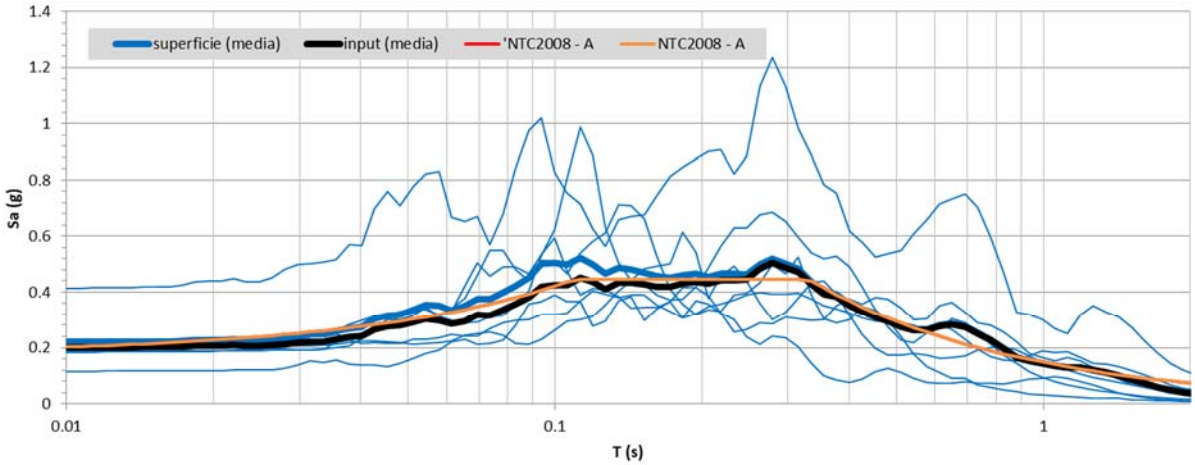
FA 0.1-0.5		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.04	1.05	1.06
FA 0.4-0.8		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.01	1.01	1.01
FA 0.7-1.1		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.00	1.00	1.01

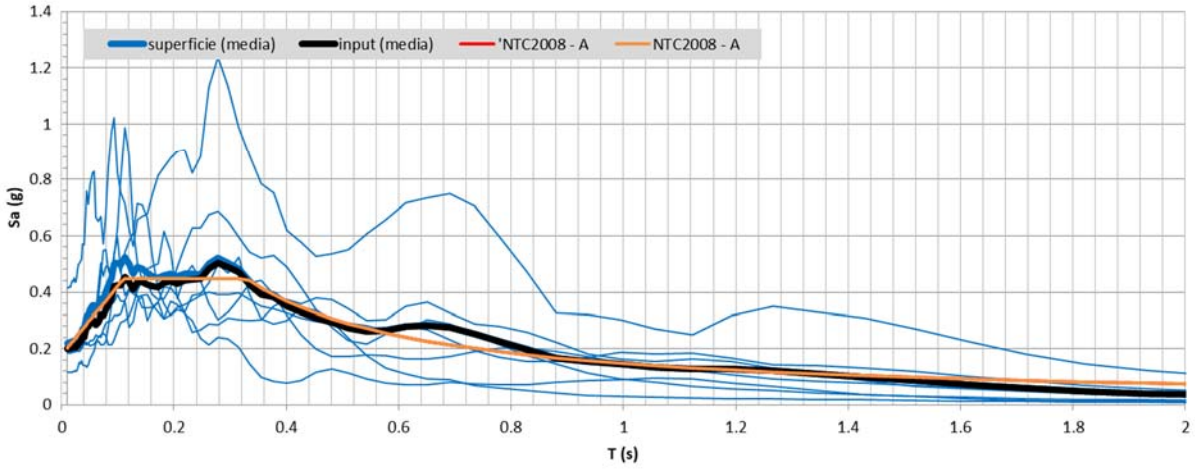
$$m_{ln} = \frac{1}{7}\sum_{i=1}^{7} \ln(FA_i)$$

$$FA_{rif} = e^{m_{ln}}$$

$$s_{ln} = \sqrt{\frac{1}{6}\sum_{i=1}^{7} [\ln(FA_i) - m_{ln}]^2}$$

$$e^{m_{ln}-s_{ln}} \quad e^{m_{ln}+s_{ln}}$$





TEMPI	ACCELEROGRAMMA 1 SCENARIO 295	ACCELEROGRAMMA 2 SCENARIO 93	ACCELEROGRAMMA 3 SCENARIO 647	ACCELEROGRAMMA 4 SCENARIO 648	ACCELEROGRAMMA 5 SCENARIO 355	ACCELEROGRAMMA 6 SCENARIO 356	ACCELEROGRAMMA 7 SCENARIO 70
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0.01062	0.40738497	0.20425930	0.11662364	0.21317335	0.21959219	0.18284550	0.18500159
0.01129	0.40810648	0.20431631	0.11669611	0.21338413	0.21992224	0.18298826	0.18507784
0.01199	0.40884003	0.20438084	0.11680038	0.21353054	0.22014973	0.18315128	0.18537034
0.01274	0.40935771	0.20445391	0.11693311	0.21380323	0.22057592	0.18333775	0.18567634
0.01353	0.41035496	0.20453662	0.11701007	0.21409337	0.22107172	0.18349559	0.18575164
0.01438	0.41364585	0.20463113	0.11729908	0.21444966	0.22174806	0.18374588	0.18601857
0.01528	0.41421896	0.20473694	0.11751798	0.21490715	0.22226379	0.18403704	0.18533064
0.01623	0.41319204	0.20473349	0.11767597	0.21520877	0.22311676	0.18437024	0.18547803
0.01724	0.41697322	0.20485989	0.11752358	0.21588450	0.22493720	0.18477286	0.18646351
0.01832	0.42866914	0.20500082	0.11690971	0.21653651	0.22681176	0.18522533	0.18679036
0.01946	0.43598995	0.20512655	0.11683396	0.21711775	0.22818535	0.18567260	0.18703572
0.02067	0.43559319	0.20543161	0.11686146	0.21765397	0.22854716	0.18616728	0.18644333
0.02196	0.44566399	0.20577754	0.11935861	0.21785192	0.22676746	0.18737223	0.18778483
0.02333	0.42852735	0.20602937	0.12121885	0.21928954	0.22297694	0.18839743	0.19138259
0.02479	0.42127982	0.20599934	0.12002635	0.22239123	0.21554316	0.18843967	0.19269057
0.02634	0.44303737	0.20633324	0.11774462	0.22129163	0.22172017	0.18984141	0.19433168
0.02798	0.45233713	0.20711700	0.12492431	0.21415431	0.22559182	0.19163990	0.19254677
0.02972	0.46806716	0.20739410	0.13677386	0.23407451	0.22764554	0.19133308	0.18877617
0.03158	0.48628856	0.20609182	0.15011839	0.24717783	0.23441473	0.19018353	0.18942423
0.03355	0.47569009	0.21105582	0.14204896	0.24069122	0.23719077	0.18978895	0.18892423
0.03564	0.50673736	0.21322303	0.15172823	0.24990207	0.24361655	0.19318580	0.21983762
0.03786	0.55762763	0.21976772	0.13940522	0.27069155	0.23564445	0.19825795	0.22996029
0.04023	0.54065766	0.22391421	0.13787924	0.28494611	0.23801089	0.22783181	0.21889030
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0.04540	0.73804248	0.22145153	0.12708869	0.29417909	0.29874198	0.27586834	0.21603900
0.04824	0.68440248	0.21631219	0.14029450	0.29348668	0.32679487	0.31715894	0.21843393
0.05125	0.78983909	0.21134716	0.15861258	0.30904461	0.31976633	0.33936768	0.23025627
0.05444	0.82963788	0.21351697	0.17382366	0.33334638	0.33332099	0.33035811	0.23035468
0.05784	0.84355118	0.22314484	0.18360242	0.30414451	0.35414746	0.31765075	0.23990393
0.06145	0.66914119	0.22794008	0.21665509	0.28843210	0.33940811	0.33236091	0.25398661
0.06528	0.65672555	0.24934155	0.22682754	0.28471855	0.37682195	0.42384852	0.24595405
0.06935	0.66883944	0.25457728	0.21117198	0.28936254	0.45941129	0.51005054	0.24068159
0.07368	0.55128657	0.26068631	0.21208460	0.31180411	0.54936011	0.46310150	0.27116788
0.07828	0.66949366	0.24660129	0.22219738	0.31959922	0.54799493	0.49416507	0.29036452
0.08316	0.82949676	0.21353933	0.28402921	0.35253582	0.47867318	0.48863630	0.29825031
0.08835	0.96228469	0.21116034	0.36039299	0.40481171	0.43620265	0.46079469	0.29970147
0.09386	1.01061214	0.22970599	0.36671498	0.53637675	0.50790517	0.52695784	0.31551683
0.09972	0.80096869	0.26471782	0.39582993	0.63324781	0.50416487	0.58525208	0.31488509
0.10594	0.74278677	0.29539252	0.37325747	0.81816553	0.46129420	0.46697412	0.31966409
0.11255	0.70172345	0.30124457	0.37152139	0.99950567	0.53287158	0.37982780	0.36333575
0.11957	0.61114067	0.31309931	0.28007269	0.89690200	0.56991203	0.40345345	0.39737841
0.12703	0.55375597	0.35412151	0.29983325	0.63943257	0.59620156	0.39861231	0.38589066
0.13495	0.64511923	0.40463351	0.37366539	0.50914603	0.69786655	0.37712150	0.37509916
0.14337	0.65735756	0.44031962	0.38779247	0.44571845	0.69503736	0.33796748	0.38270170
0.15232	0.66598620	0.42702652	0.29827221	0.48759716	0.65058750	0.33918852	0.38432096
0.16182	0.73342103	0.38834069	0.34006016	0.49762672	0.51885651	0.33777532	0.35062705
0.17192	0.80216568	0.37092396	0.36923933	0.50689590	0.40234487	0.36013571	0.32554593
0.18264	0.83379509	0.37494680	0.30857518	0.62160712	0.35340773	0.41354720	0.30353434
0.19404	0.86509470	0.41698821	0.37133886	0.54868603	0.31542809	0.41237399	0.31826762
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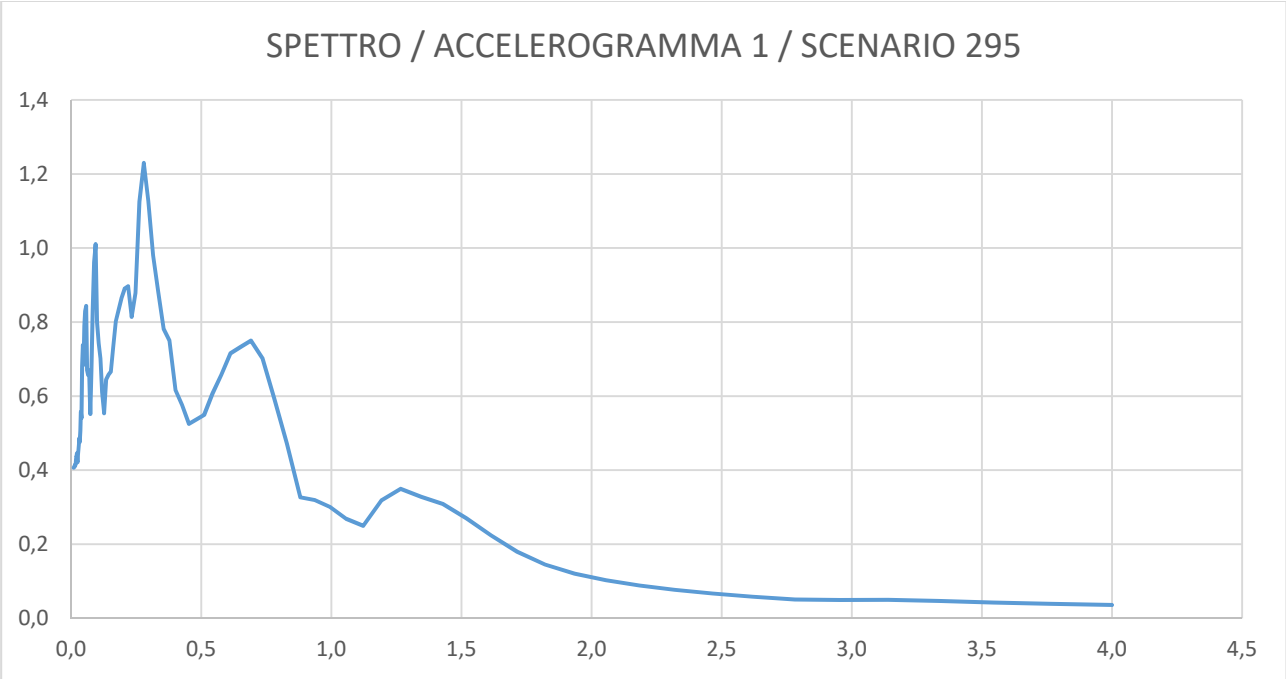
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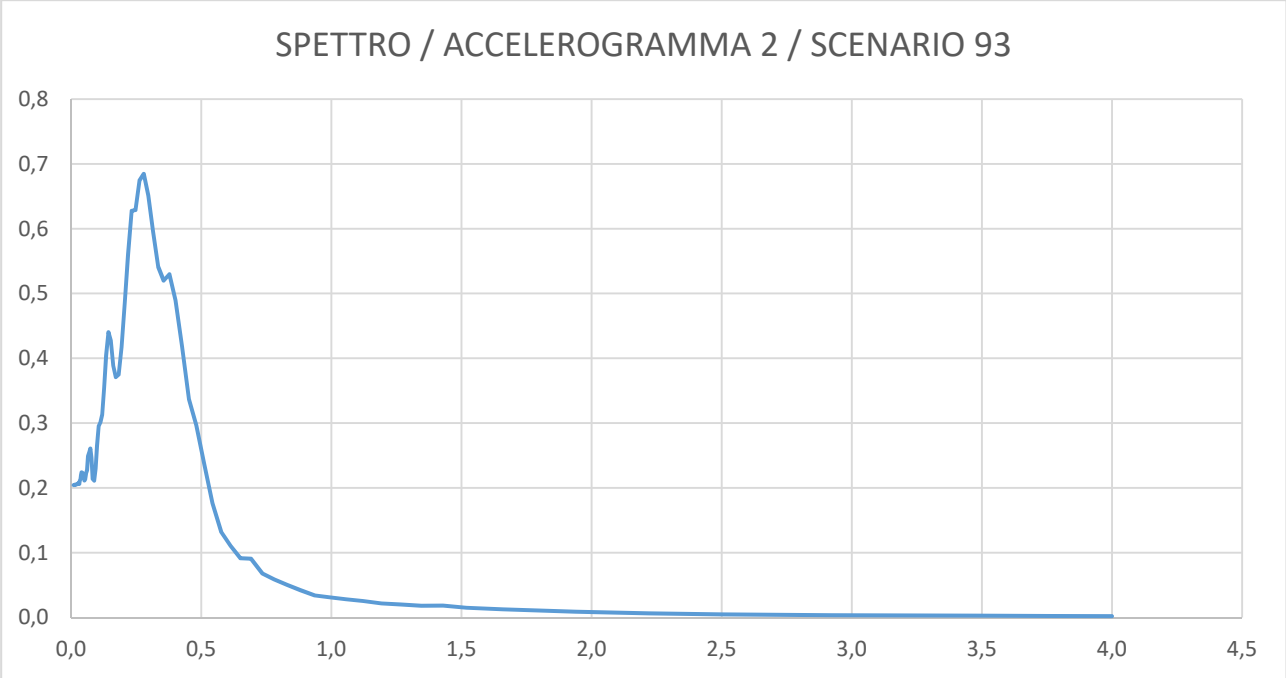
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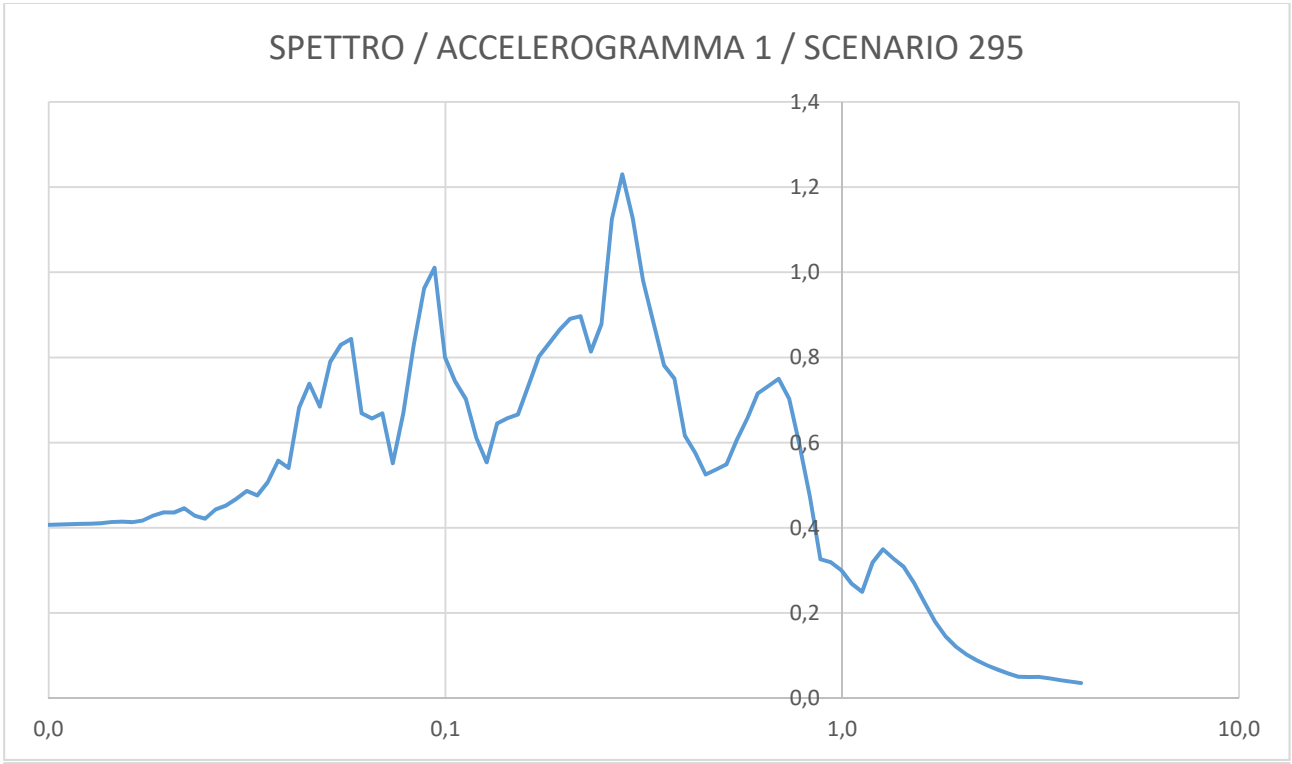
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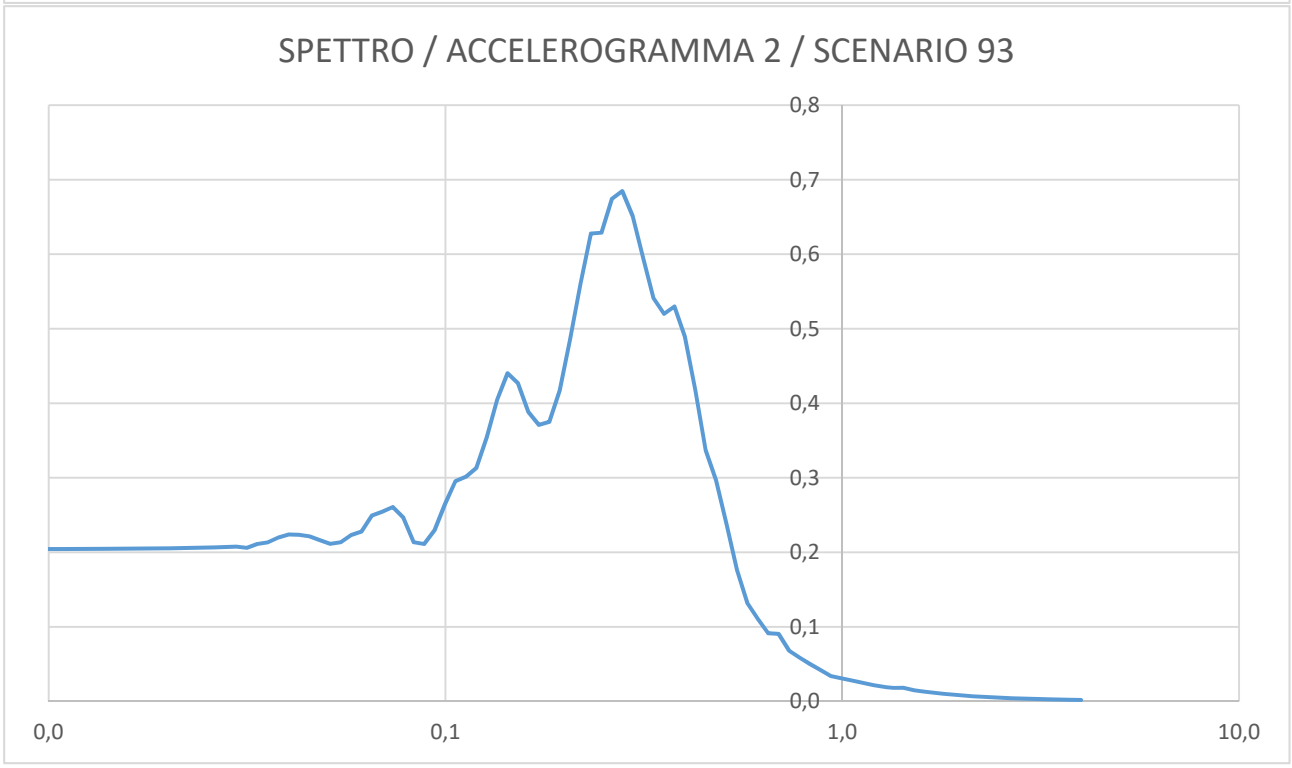
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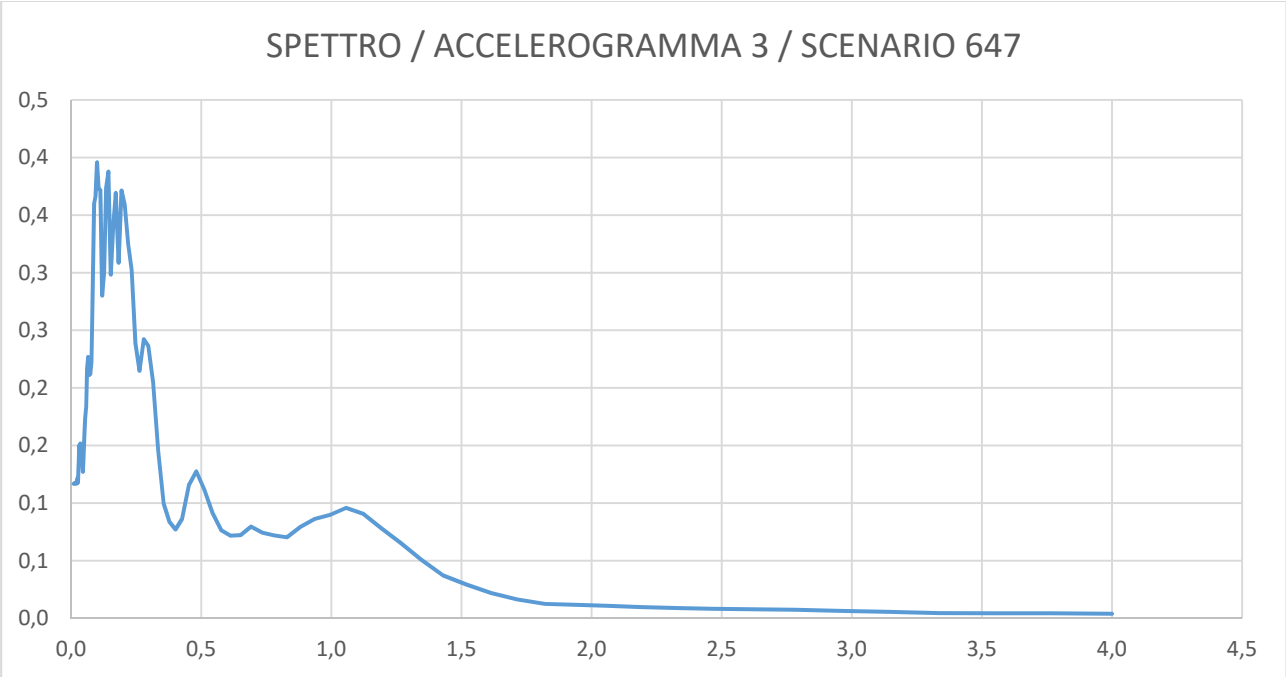
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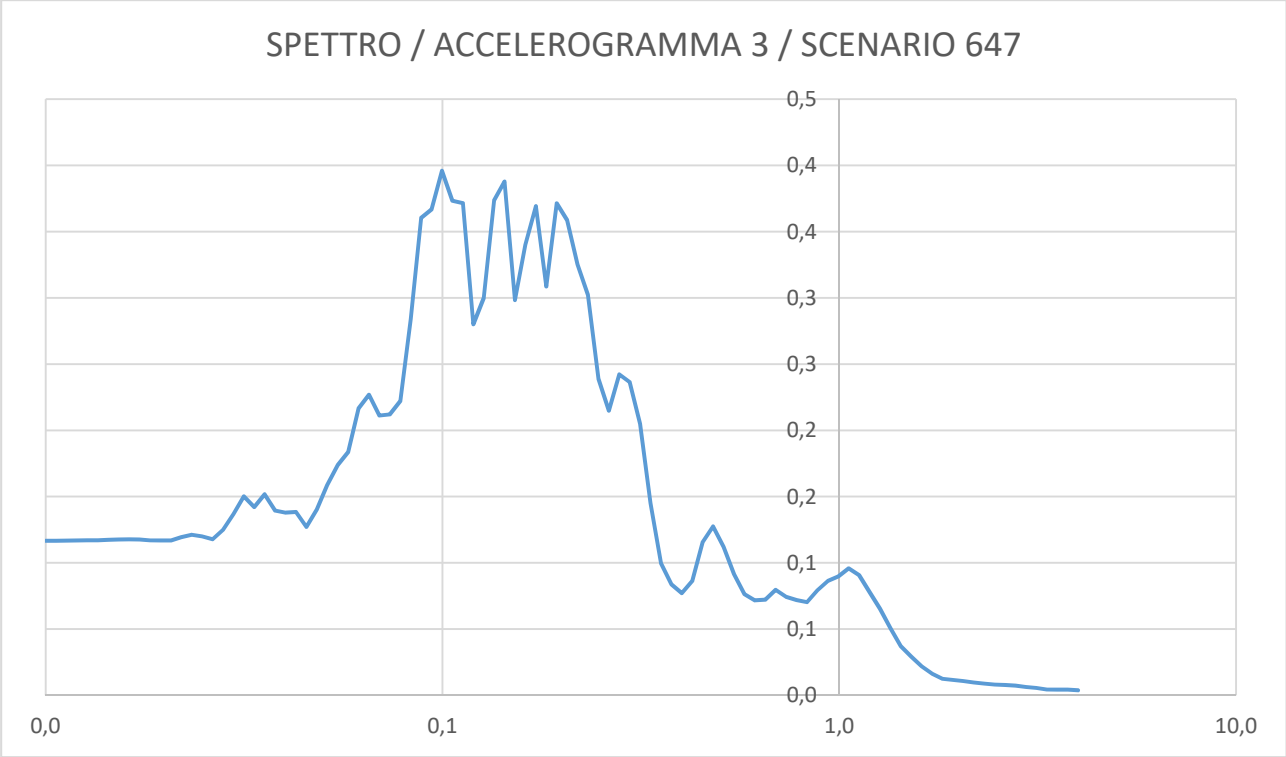
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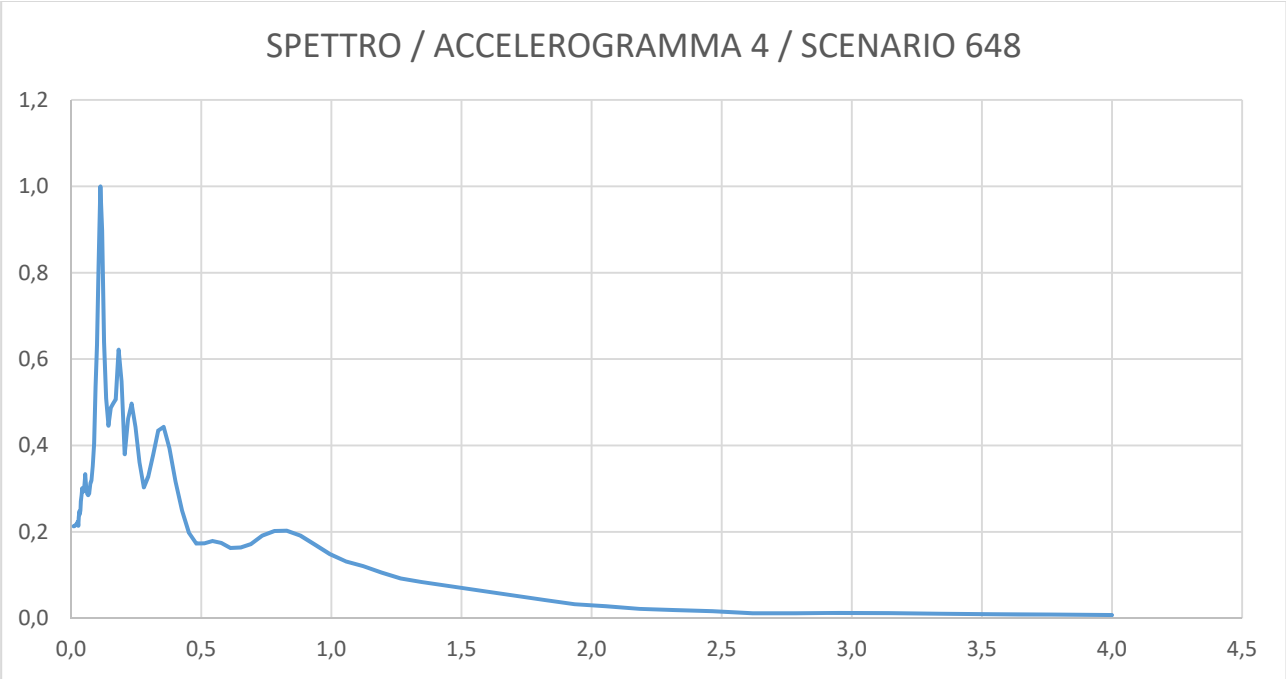
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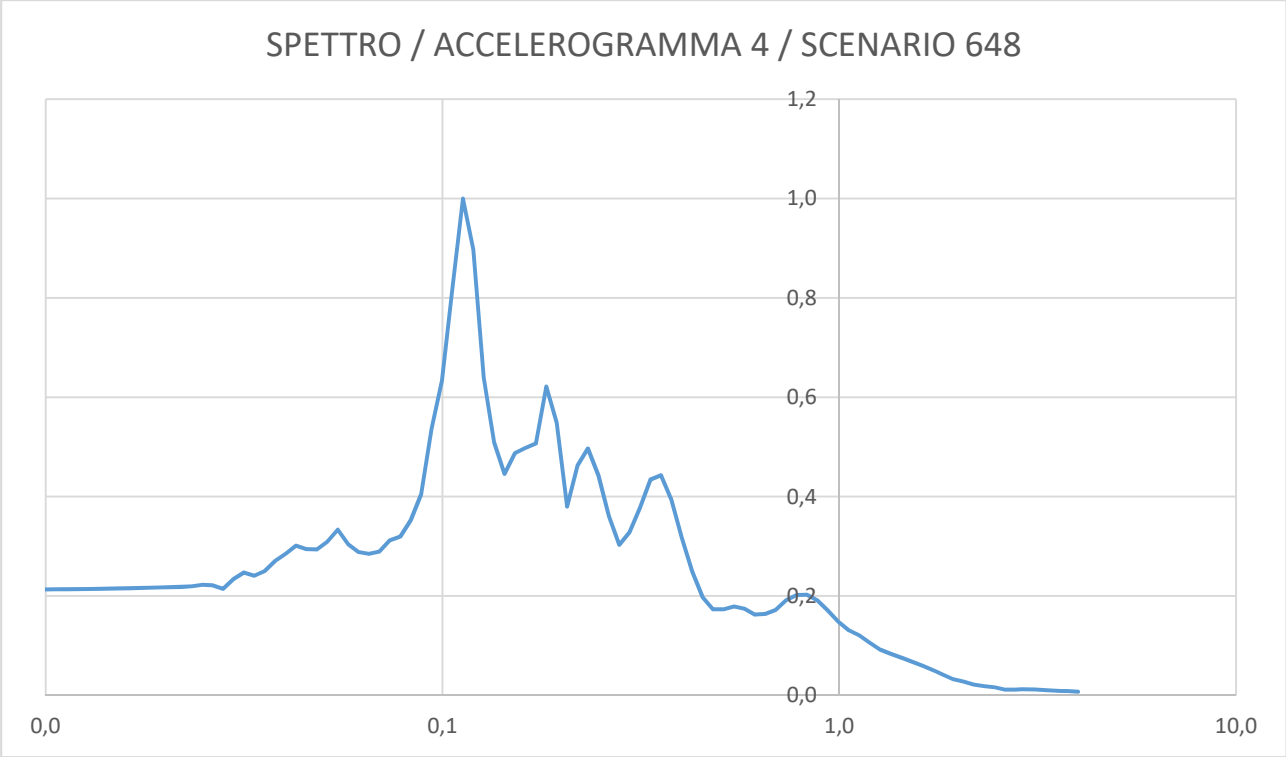
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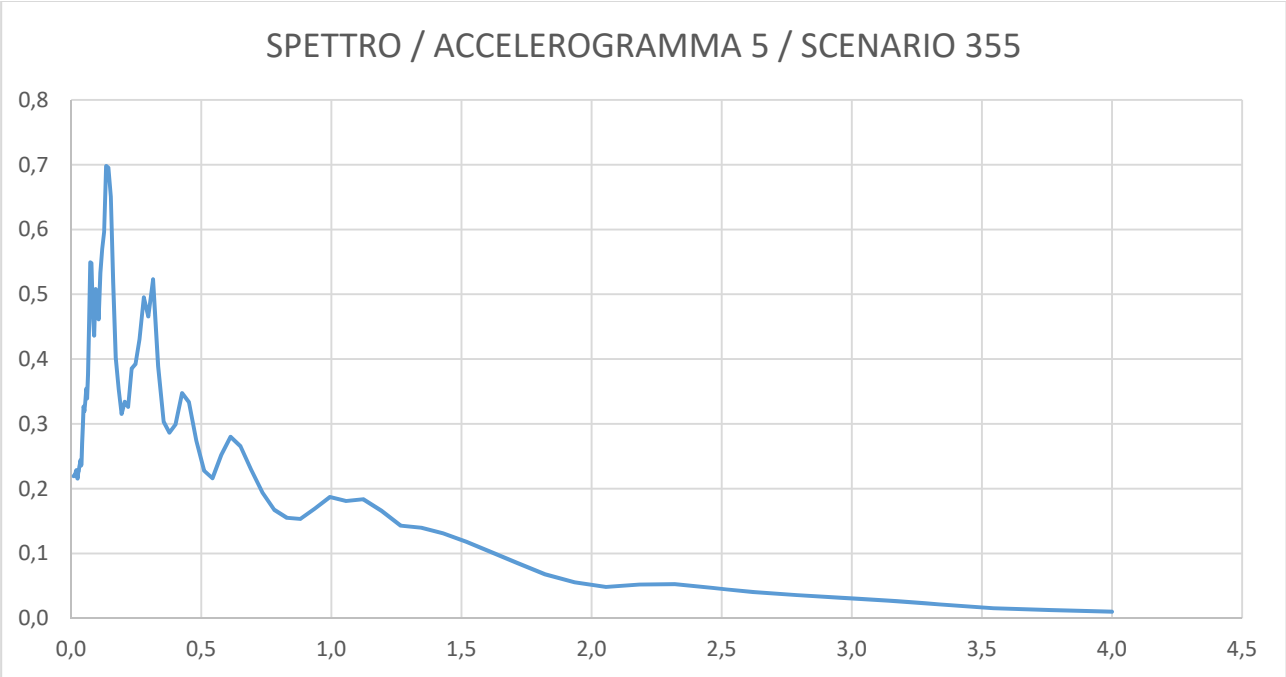
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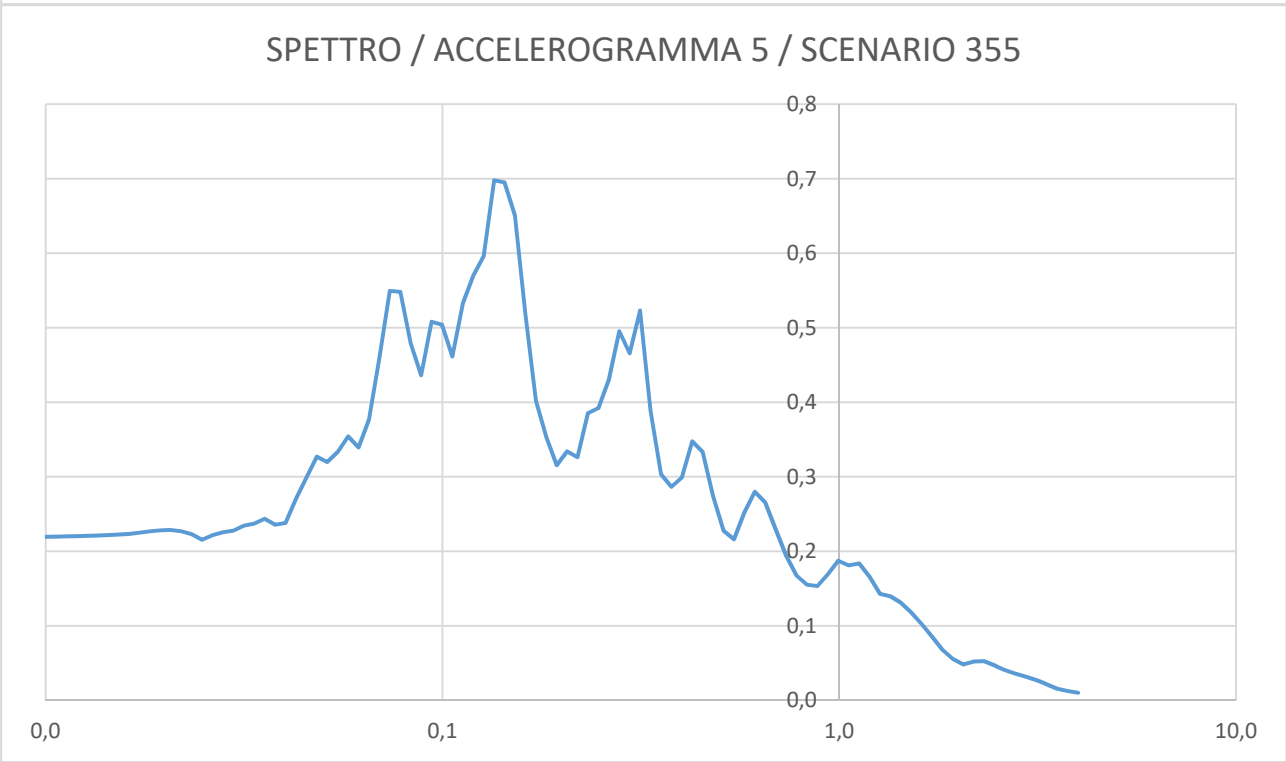
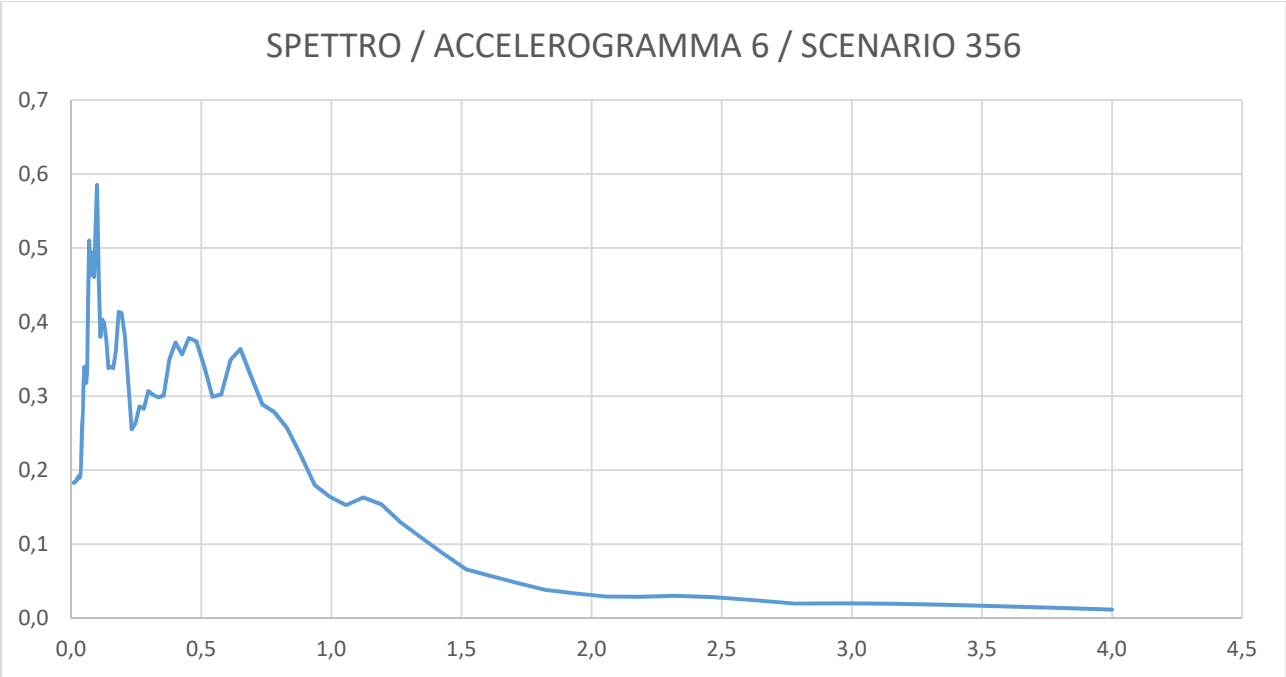
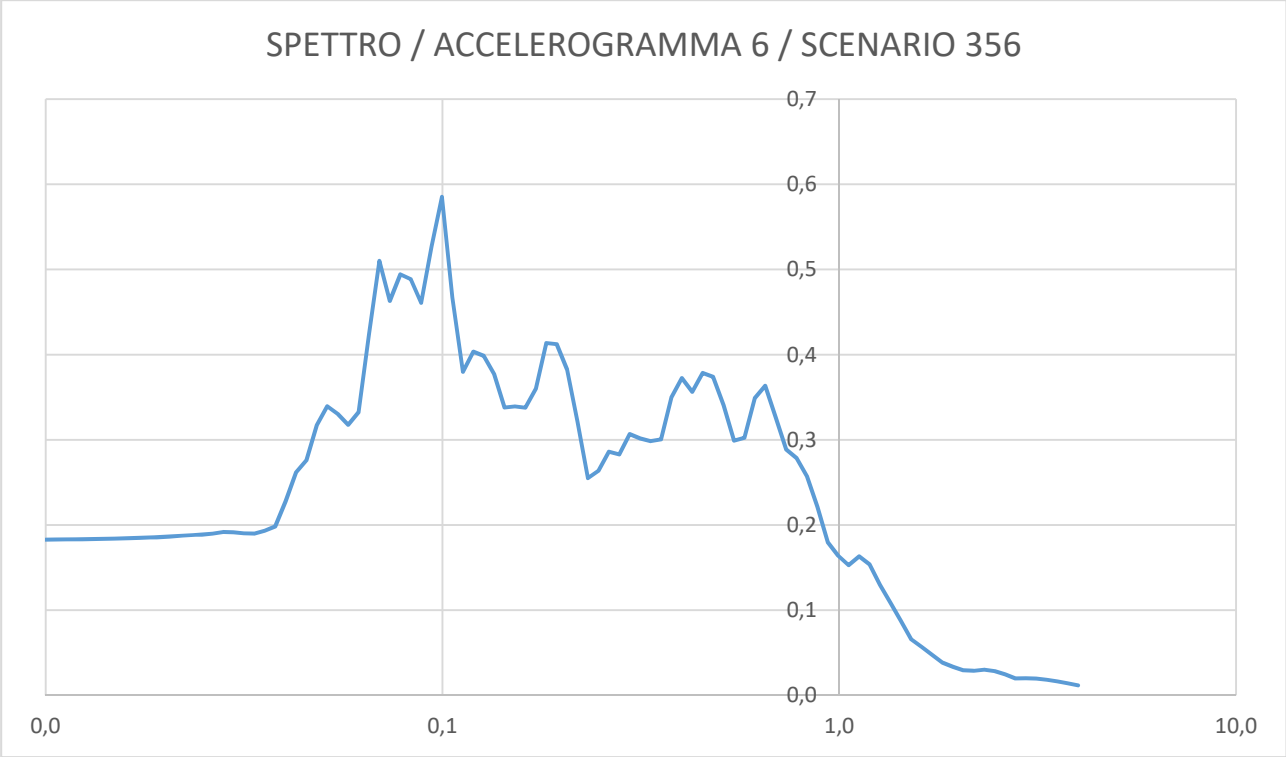
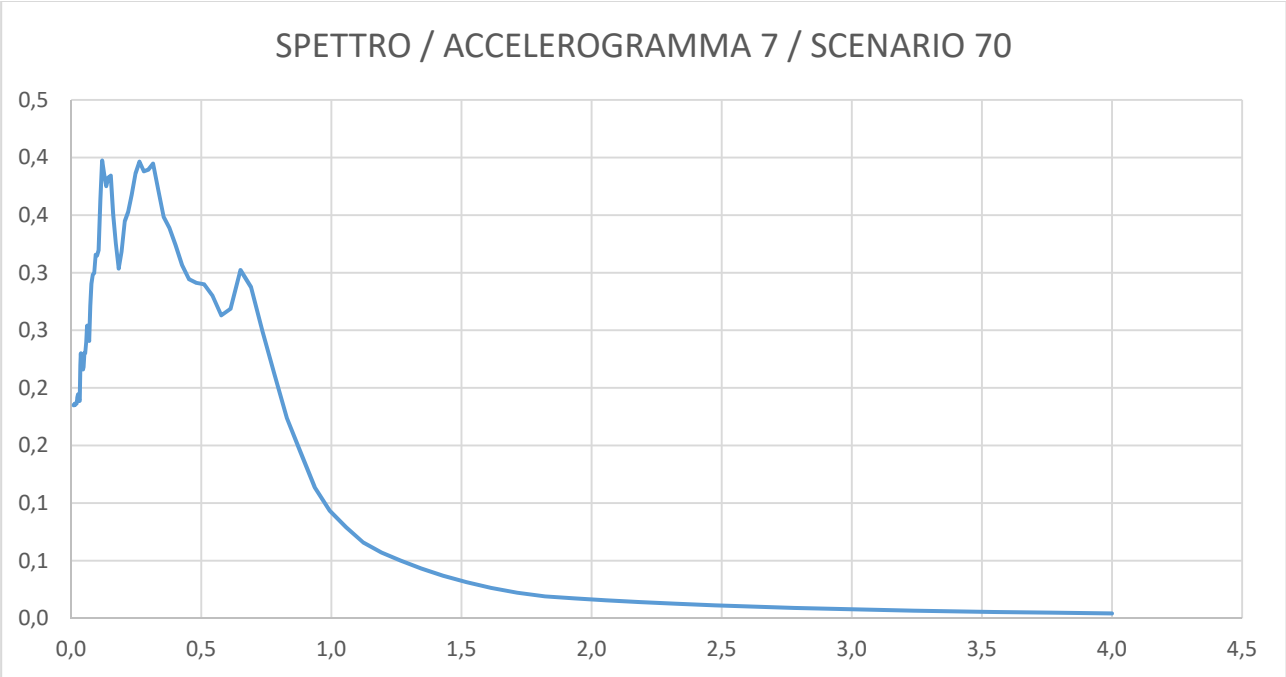
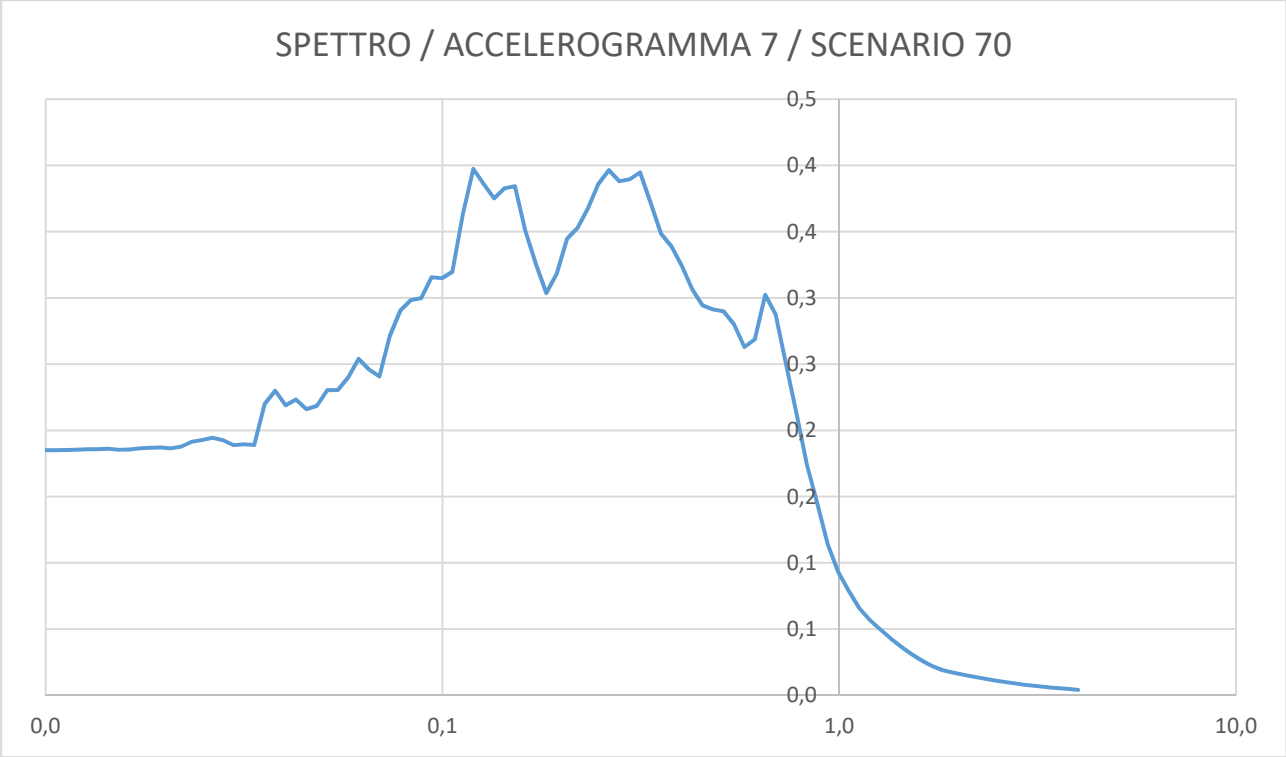
4,0
4,5

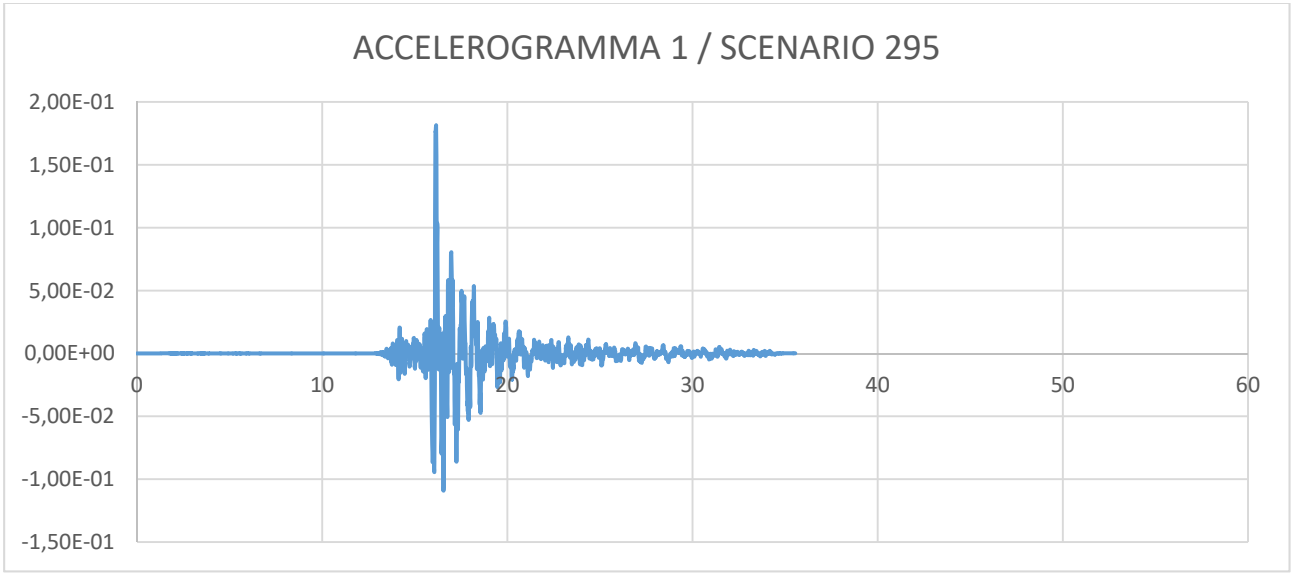

SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 355
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0

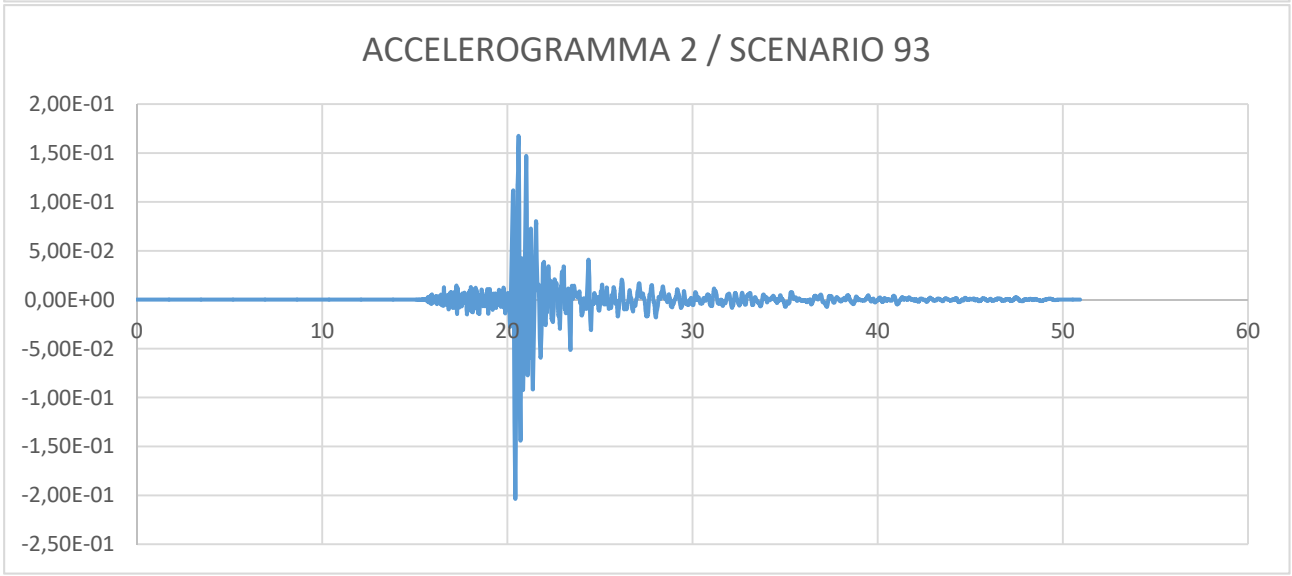

SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 356
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5

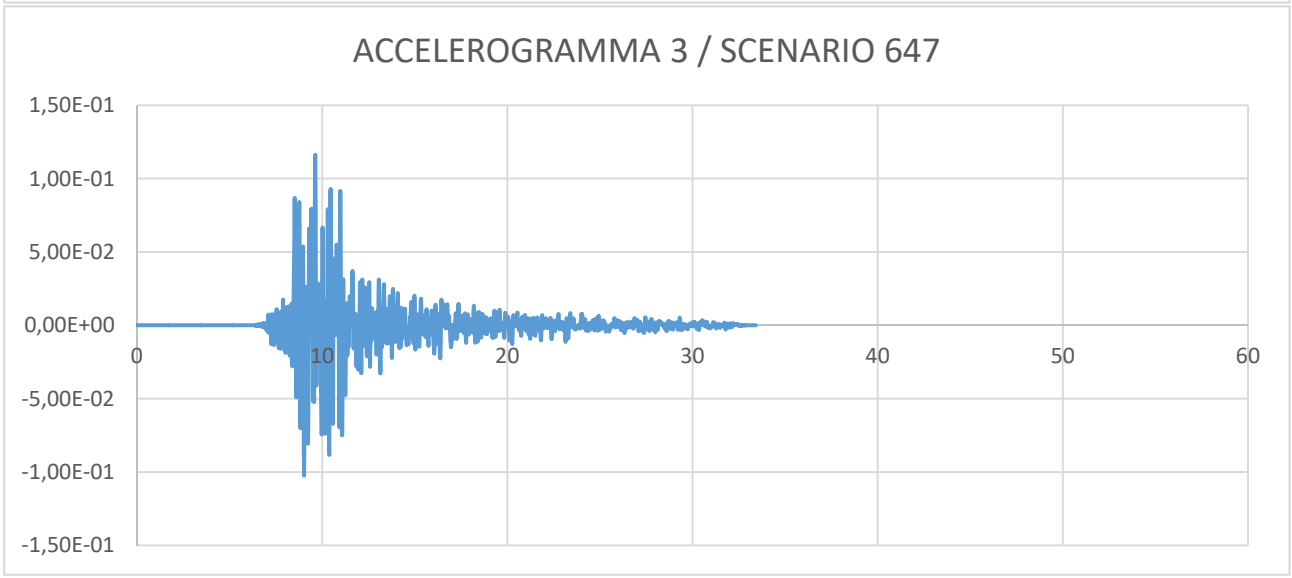

SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 356
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0

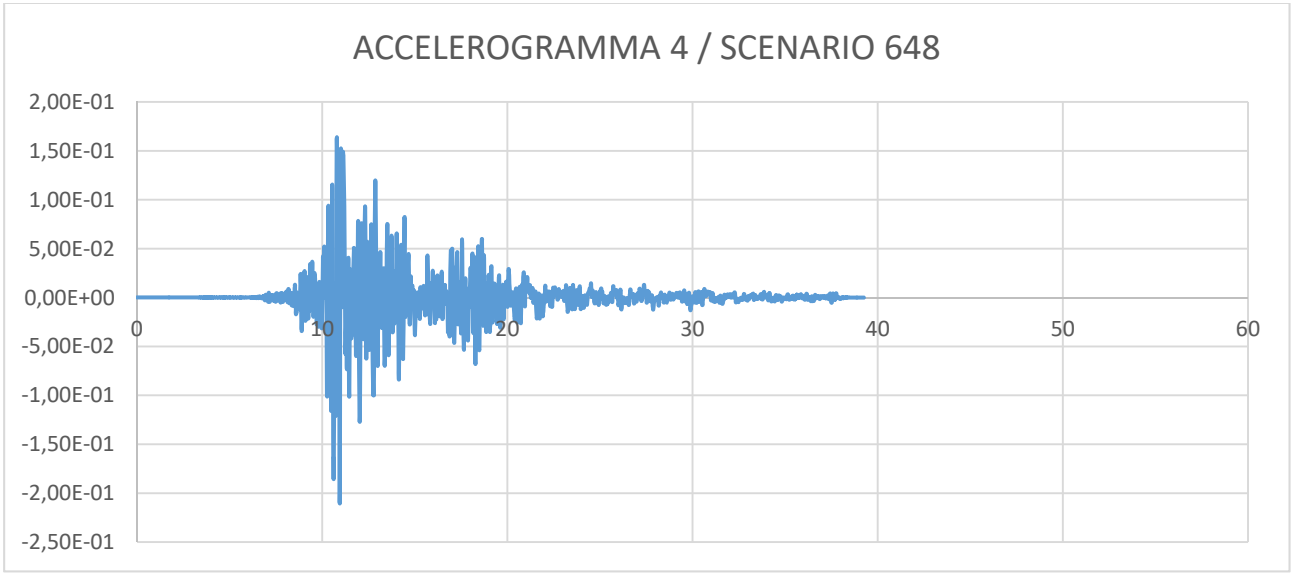

SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 70
0,5
0,4
0,4
0,3
0,3
0,2
0,2
0,1
0,1
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5

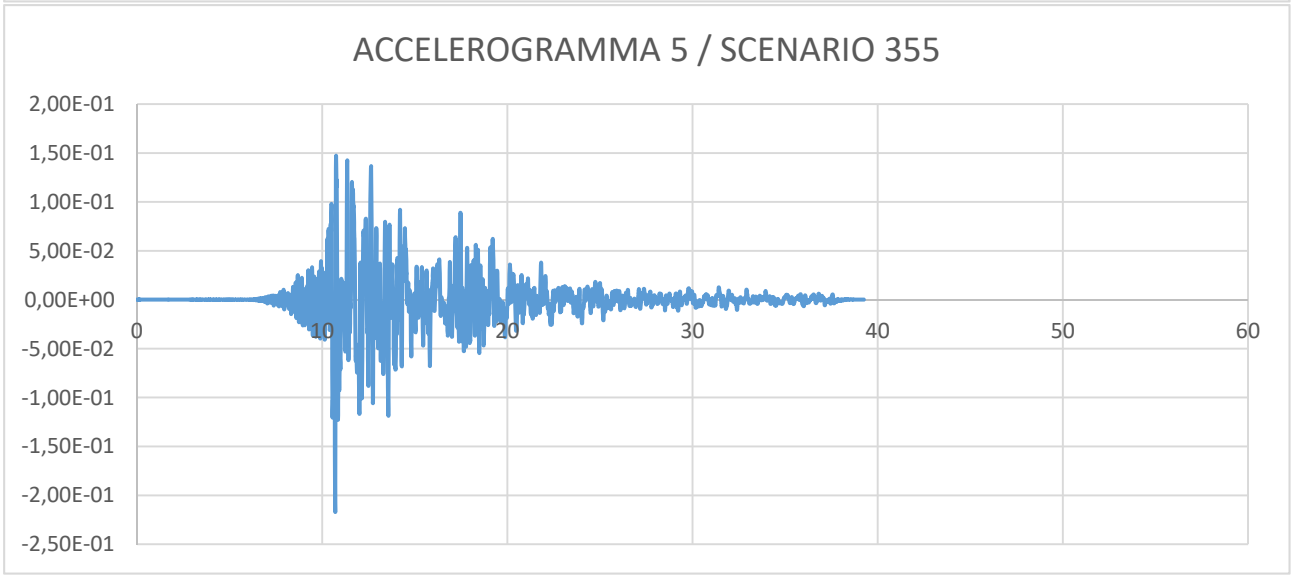

SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 70
0,5
0,4
0,4
0,3
0,3
0,2
0,2
0,1
0,1
0,0
0,0
0,1
1,0
10,0

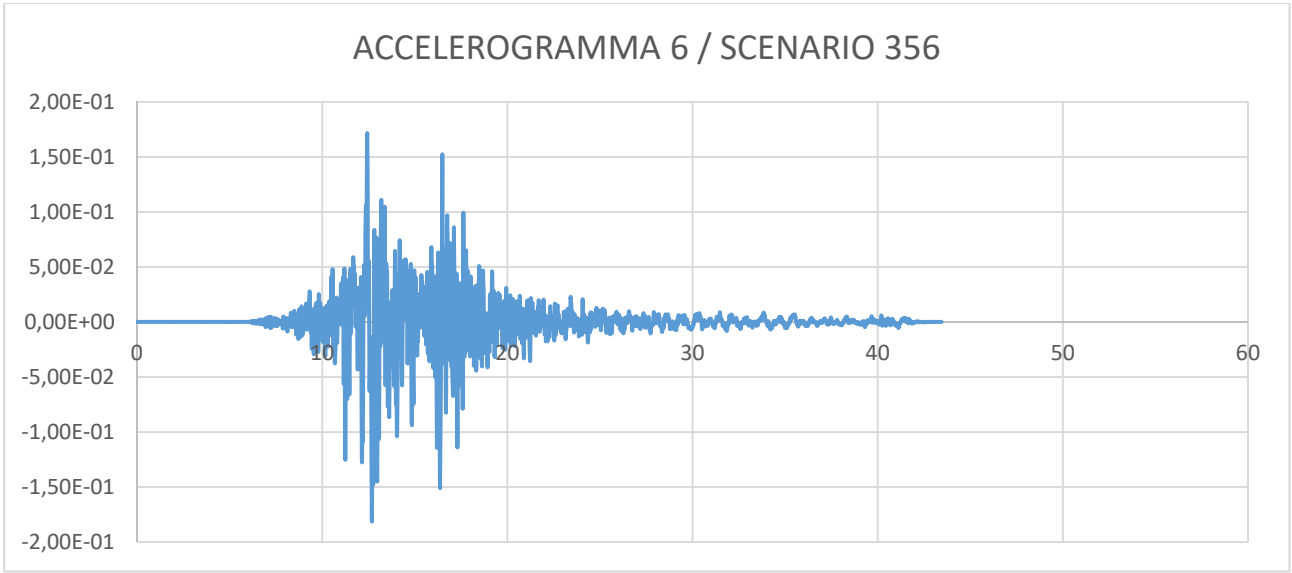

ACCELEROGRAMMA 1 / SCENARIO 295
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60

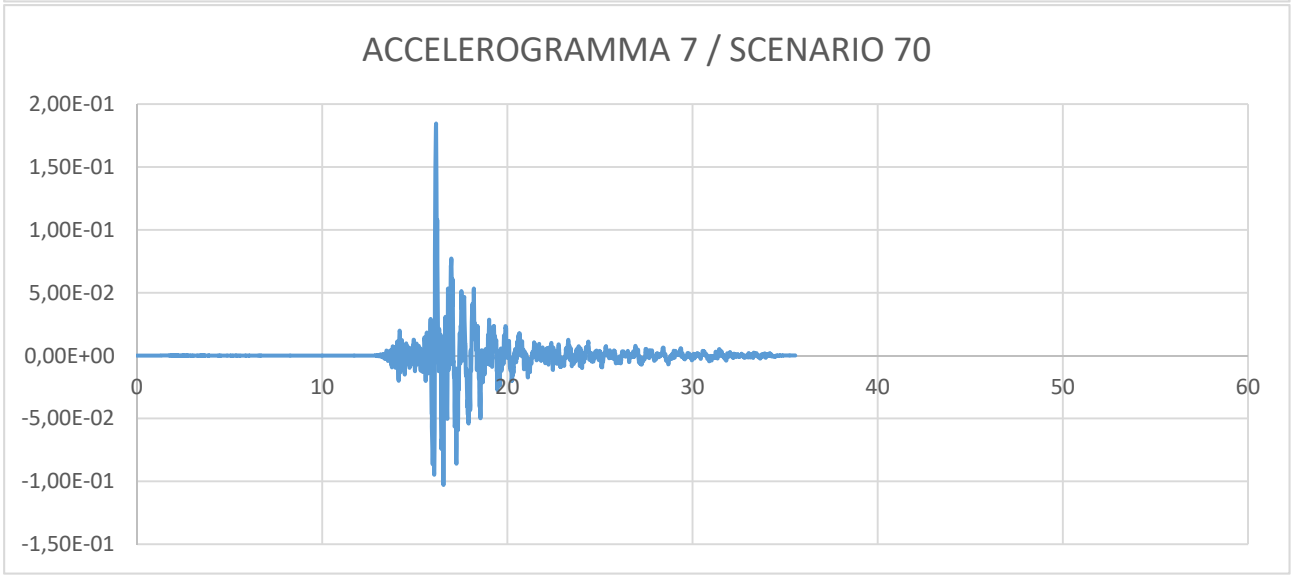

ACCELEROGRAMMA 2 / SCENARIO 93
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 3 / SCENARIO 647
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 4 / SCENARIO 648
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 5 / SCENARIO 355
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 6 / SCENARIO 356
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 7 / SCENARIO 70
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60

2. MOPS 2002

FA 0.1-0.5	FA 0.4-0.8	FA 0.7-1.1
1.42	1.09	1.05

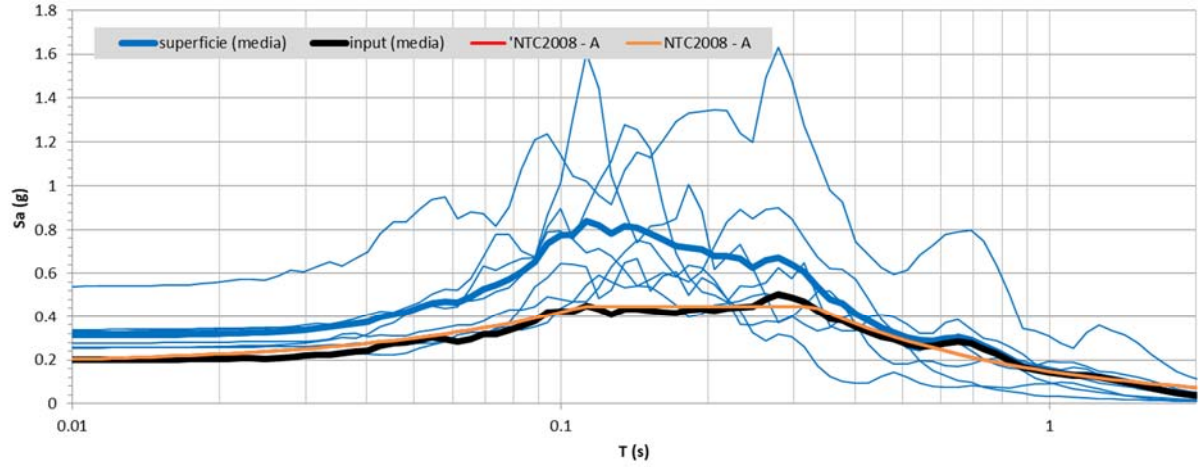
FA 0.1-0.5		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.34	1.42	1.51
FA 0.4-0.8		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.06	1.09	1.12
FA 0.7-1.1		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.02	1.05	1.08

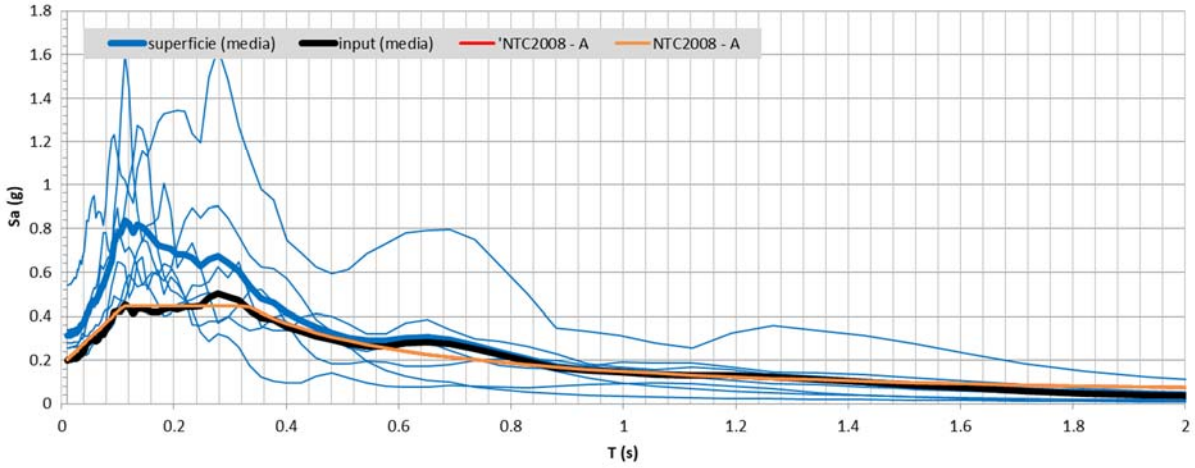
$$m_{ln} = \frac{1}{7}\sum_{i=1}^{7} \ln(FA_i)$$

$$FA_{rif} = e^{m_{ln}}$$

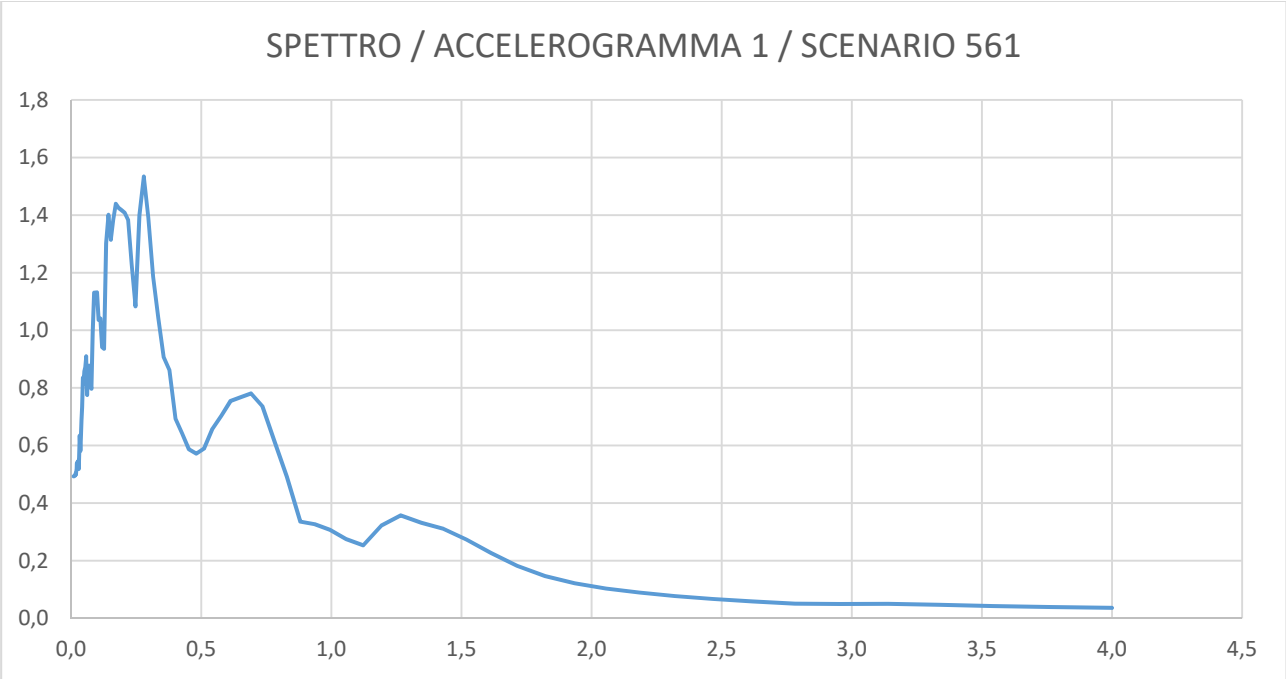
$$s_{ln} = \sqrt{\frac{1}{6}\sum_{i=1}^{7} [\ln(FA_i) - m_{ln}]^2}$$

$$e^{m_{ln}-s_{ln}} \quad e^{m_{ln}+s_{ln}}$$





TEMPI	ACCELEROGRAMMA 1 SCENARIO 561	ACCELEROGRAMMA 2 SCENARIO 282	ACCELEROGRAMMA 3 SCENARIO 80	ACCELEROGRAMMA 4 SCENARIO 249	ACCELEROGRAMMA 5 SCENARIO 285	ACCELEROGRAMMA 6 SCENARIO 251	ACCELEROGRAMMA 7 SCENARIO 315
0.01000	0.49296818	0.26456664	0.18811835	0.34112881	0.32494509	0.24957501	0.27652667
0.01062	0.49337007	0.26464057	0.18825838	0.34134625	0.32540458	0.24978527	0.27667959
0.01129	0.49379923	0.26472432	0.18843657	0.34159474	0.32592042	0.25002431	0.27694092
0.01199	0.49423845	0.26481935	0.18865883	0.34189254	0.32628959	0.25029666	0.27731481
0.01274	0.49457549	0.26492735	0.18892697	0.34222169	0.32696173	0.25060778	0.27750613
0.01353	0.49430495	0.26505702	0.18929519	0.34258676	0.32778228	0.25097038	0.27757999
0.01438	0.49502896	0.26520485	0.18990742	0.34296526	0.32886547	0.25137766	0.27826951
0.01528	0.49653738	0.26537497	0.19016836	0.34341503	0.32975891	0.25185098	0.27875870
0.01623	0.49882689	0.26555344	0.18952871	0.34393274	0.33110094	0.25239732	0.27814029
0.01724	0.50253230	0.26576396	0.18995641	0.34443771	0.33348922	0.25304729	0.27784211
0.01832	0.49877424	0.26602248	0.19061137	0.34481153	0.33559563	0.25379993	0.27810450
0.01946	0.51016514	0.26635516	0.18946613	0.34559453	0.33732101	0.25456731	0.27902605
0.02067	0.51967495	0.26656104	0.18950954	0.34621164	0.33709271	0.25545989	0.27994709
0.02196	0.53763104	0.26674382	0.19064527	0.34701654	0.33397521	0.25686880	0.28300487
0.02333	0.54094451	0.26693736	0.19378882	0.34672851	0.32832391	0.25846810	0.28484499
0.02479	0.52580666	0.26782396	0.19035366	0.34640941	0.31865991	0.25919327	0.28577180
0.02634	0.52079677	0.26883739	0.19010819	0.34744405	0.33190687	0.26142246	0.28807315
0.02798	0.54650824	0.26960649	0.19236975	0.34696543	0.33873861	0.26436604	0.28533149
0.02972	0.51821103	0.26961512	0.20589726	0.34485246	0.34193334	0.26678346	0.28539230
0.03158	0.57476523	0.27227670	0.22372039	0.34413198	0.34962161	0.26636319	0.27426718
0.03355	0.63423654	0.27631749	0.23087349	0.33867992	0.35378349	0.26517140	0.28972658
0.03564	0.58103719	0.27813516	0.25462214	0.36507961	0.36086573	0.28274424	0.29042785
0.03786	0.62333083	0.28199890	0.23615608	0.36164648	0.35163571	0.27856864	0.31332845
0.04023	0.68752920	0.28132066	0.23415914	0.37420286	0.38314471	0.27776360	0.30813894
0.04274	0.73307515	0.27356889	0.22590975	0.38670279	0.40753835	0.28315314	0.31662200
0.04540	0.83591477	0.26738342	0.21705496	0.39836822	0.44271540	0.31459755	0.31788566
0.04824	0.81343023	0.26468782	0.21631880	0.41601074	0.47320224	0.35783855	0.32475679
0.05125	0.85782488	0.27290386	0.22983496	0.41919513	0.48047207	0.38797570	0.34620118
0.05444	0.87192491	0.27664322	0.25952907	0.44501806	0.55268981	0.42701451	0.35665452
0.05784	0.90956199	0.30961045	0.28508497	0.41322153	0.58829570	0.43628861	0.37376021
0.06145	0.77483197	0.32369780	0.31038698	0.44790044	0.60874591	0.45304704	0.38506666
0.06528	0.86435336	0.34719092	0.32193019	0.48719823	0.68615992	0.55103104	0.36936187
0.06935	0.87743514	0.33509792	0.30167941	0.49741244	0.80571317	0.68412358	0.37306885
0.07368	0.81458254	0.35481250	0.32609618	0.53706209	0.97001348	0.58774436	0.41677159
0.07828	0.79667340	0.38187751	0.35508754	0.56196058	0.97190785	0.62638494	0.45638081
0.08316	0.99100663	0.33536564	0.41408280	0.60929494	0.85323191	0.60399555	0.46220626
0.08835	1.13071135	0.31988888	0.52924995	0.69540977	0.76078436	0.59936122	0.46578686
0.09386	1.13135881	0.35251695	0.57919132	0.88783765	0.85177166	0.74178831	0.48858206
0.09972	1.13121399	0.42713660	0.66155220	1.05436389	0.84044762	0.83810598	0.48208599
0.10594	1.03584761	0.46062986	0.68778149	1.36004699	0.78337001	0.70230907	0.49762840
0.11255	1.04080268	0.46323767	0.67136370	1.65018076	0.89700514	0.71660402	0.58292292
0.11957	0.94118427	0.47844821	0.54248748	1.49311199	0.94382562	0.76968441	0.63001354
0.12703	0.93595186	0.57968509	0.59116197	1.12626942	1.06646928	0.74892129	0.58526671
0.13495	1.30269923	0.69630662	0.76114511	0.93239011	1.24943849	0.68468398	0.55163214
0.14337	1.40100496	0.75362599	0.77149957	0.77059754	1.23774477	0.57839061	0.55893784
0.15232	1.31431643	0.72598466	0.57848808	0.88667077	1.15026175	0.63149233	0.55909861
0.16182	1.38373427	0.67776664	0.65417729	0.89758083	0.89472031	0.68096836	0.48982113
0.17192	1.43900921	0.60580089	0.66702977	0.91497662	0.67082796	0.65128205	0.43687910
0.18264	1.42476252	0.56686025	0.52983220	1.10707408	0.56704579	0.70519278	0.38836089
0.19404	1.41700466	0.61515748	0.61619291	0.96238561	0.50615627	0.68111349	0.39593599
0.20614	1.40779943	0.74018730	0.57253619	0.66856336	0.50236575	0.61162952	0.43305490
0.21901	1.38303111	0.84948278	0.50097447	0.69049354	0.46164737	0.51472037	0.44151500
0.23267	1.22907583	0.90422607	0.44122051	0.77352348	0.54440199	0.38323224	0.45710992
0.24718	1.08285700	0.83975190	0.32706079	0.65497858	0.54251073	0.37135871	0.47884761
0.26261	1.39951311	0.89999809	0.29233845	0.51019313	0.54703008	0.38979796	0.48898094
0.27899	1.53387415	0.90760635	0.33298916	0.36364898	0.62921432	0.39139811	0.47177600
0.29640	1.39212067	0.85440635	0.31447994	0.38785538	0.57977482	0.41476987	0.46452542
0.31489	1.18690008	0.76518700	0.26612973	0.45505243	0.64971650	0.37332361	0.46204750
0.33453	1.04450786	0.66446013	0.17620088	0.52075248	0.49288156	0.33067295	0.42806445
0.35540	0.90695318	0.61932160	0.12151449	0.52427616	0.35752589	0.35507532	0.39474125
0.37758	0.86193096	0.61159606	0.10143781	0.46666649	0.33710662	0.40419217	0.37913592
0.40113	0.69305237	0.57169340	0.09606598	0.36957490	0.33592587	0.41449600	0.35912552
0.42616	0.64221620	0.48649658	0.09363411	0.27158437	0.38675100	0.40199024	0.33681258
0.45275	0.58685630	0.38412359	0.12627656	0.20710207	0.36043761	0.41537871	0.32083935
0.48099	0.57169285	0.32868268	0.14425094	0.18050541	0.29720148	0.40381227	0.31047001
0.51100	0.58959226	0.26232165	0.11821921	0.18193882	0.25711079	0.36826285	0.30320400
0.54288	0.65781237	0.19096033	0.09413309	0.19738248	0.24337646	0.32329039	0.29603014
0.57675	0.70307388	0.15036622	0.08040086	0.19341759	0.26397723	0.32436716	0.27897541
0.61274	0.75436950	0.12673882	0.07652400	0.17139182	0.29665198	0.37401872	0.28078475
0.65096	0.76712479	0.10452211	0.07459025	0.17266909	0.28301050	0.38876004	0.31498596
0.69158	0.78044138	0.09664141	0.08292182	0.18254850	0.24419028	0.34087657	0.29934632
0.73472	0.73640532	0.07361441	0.07930087	0.19856269	0.20607668	0.29832618	0.25804988
0.78056	0.61667940	0.06378986	0.07573050	0.20663449	0.17716644	0.28872133	0.21940717
0.82926	0.49084129	0.05452606	0.07190275	0.20886292	0.16271180	0.26346985	0.17926249
0.88100	0.33572117	0.04569595	0.08036809	0.19873867	0.15871087	0.22872489	0.14843683
0.93596	0.32663640	0.03629275	0.08824105	0.17611411	0.17384454	0.18280147	0.11736521
0.99435	0.30692873	0.03216400	0.09144229	0.15148058	0.19155460	0.16708550	0.09529255
1.05639	0.27466568	0.03005477	0.09747142	0.13353990	0.18731526	0.15519679	0.08018251
1.12230	0.25320239	0.02728328	0.09228340	0.12415521	0.18856530	0.16680775	0.06719086
1.19232	0.32196671	0.02362123	0.08022262	0.10854234	0.16840678	0.15790205	0.05841967
1.26670	0.35720932	0.02173313	0.06756287	0.09293217	0.14603984	0.13275652	0.05050219
1.34573	0.33172084	0.01973596	0.05095369	0.08659614	0.14217587	0.11074960	0.04357391
1.42969	0.31111572	0.01838618	0.03789164	0.07846034	0.13308138	0.08897835	0.03741694
1.51889	0.27298629	0.01597223	0.02984133	0.06880107	0.11954423	0.06689240	0.03190375
1.61365	0.22668946	0.01420526	0.02226715	0.06152772	0.10354642	0.05831432	0.02697346
1.71432	0.18207059	0.01252595	0.01695687	0.05257269	0.08678577	0.04820142	0.02266504
1.82127	0.14671697	0.01096812	0.01303295	0.04311222	0.06852475	0.03864868	0.02031514
1.93490	0.12150042	0.00954934	0.01177616	0.03342035	0.05664015	0.03461491	0.01831662
2.05562	0.10327912	0.00827249	0.01088289	0.02784561	0.04871366	0.03035076	0.01652984
2.18386	0.08901277	0.00713852	0.00983270	0.02191523	0.05243578	0.02921952	0.01493229
2.32011	0.07712535	0.00614974	0.00903969	0.01863307	0.05277440	0.03067560	0.01335615
2.46486	0.06709238	0.00542249	0.00814330	0.01610170	0.04707789	0.02893529	0.01184386
2.61864	0.05829475	0.00480727	0.00780505	0.01162520	0.04060173	0.02468275	0.01063534
2.78201	0.05034131	0.00426436	0.00738640	0.01164811	0.03607585	0.01996399	0.00949913
2.95558	0.04938224	0.00378734	0.00639070	0.01207574	0.03187460	0.02009146	0.00835776
3.13998	0.04985290	0.00337314	0.00563285	0.01188640	0.02717783	0.01973438	0.00740503
3.33587	0.04646619	0.00300307	0.00449438	0.01015526	0.02143368	0.01851451	0.00641875
3.54400	0.04211634	0.00266783	0.00432816	0.00925222	0.01556784	0.01653259	0.00567798
3.76510	0.03881573	0.00237670	0.00435804	0.00842691	0.01271472	0.01415297	0.00514619
4.00000	0.03564086	0.00211257	0.00391945	0.00734395	0.01029646	0.01177280	0.00433236


SPETTRO / ACCELEROGRAMMA 1 / SCENARIO 561
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1,6
1,4
1,2
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0,8
0,6
0,4
0,2
0,0
0,0
0,5
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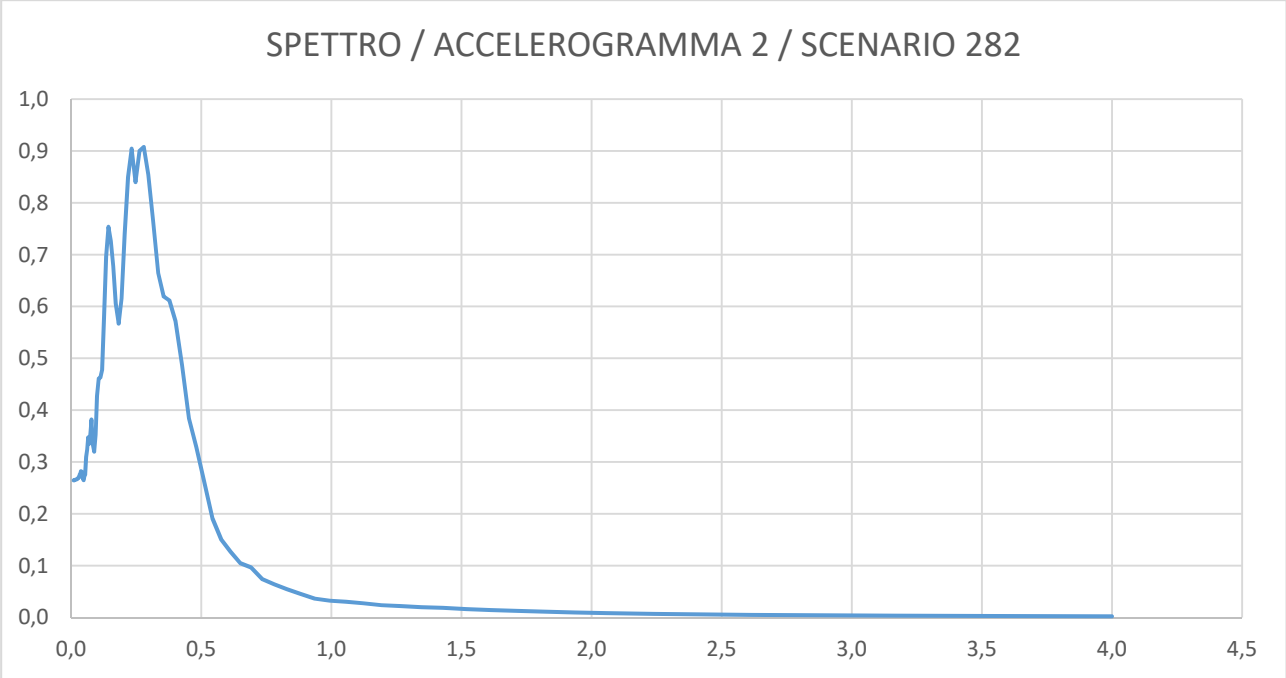
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 2 / SCENARIO 282
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0,9
0,8
0,7
0,6
0,5
0,4
0,3
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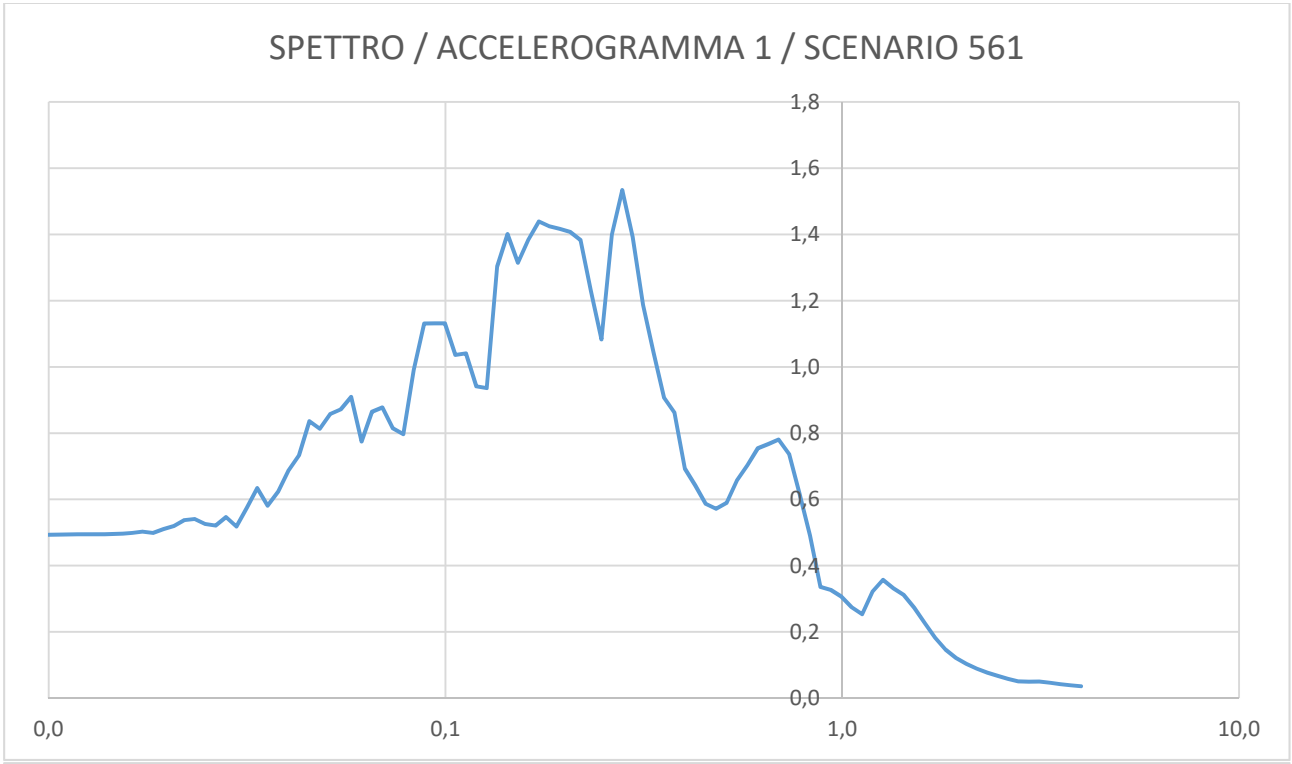
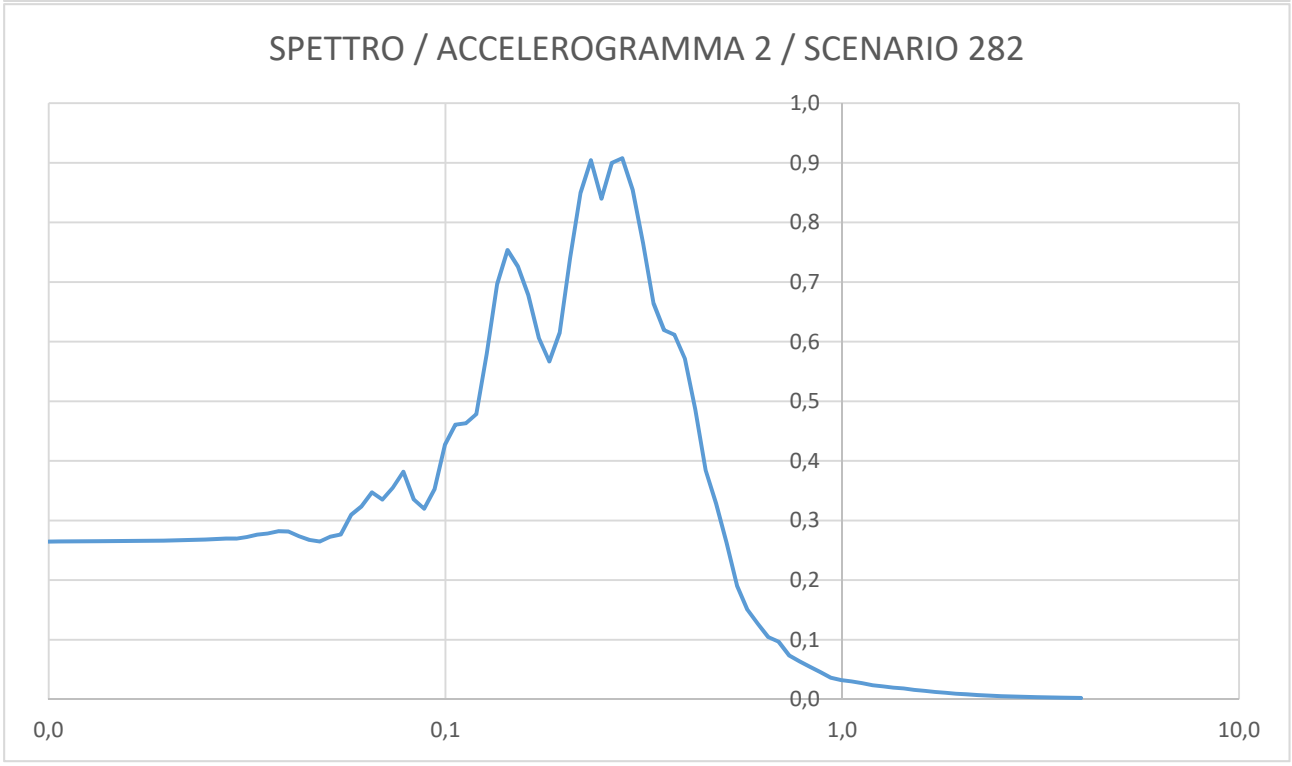
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 1 / SCENARIO 561
1,8
1,6
1,4
1,2
1,0
0,8
0,6
0,4
0,2
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 2 / SCENARIO 282
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0,9
0,8
0,7
0,6
0,5
0,4
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0,2
0,1
0,0
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1,0
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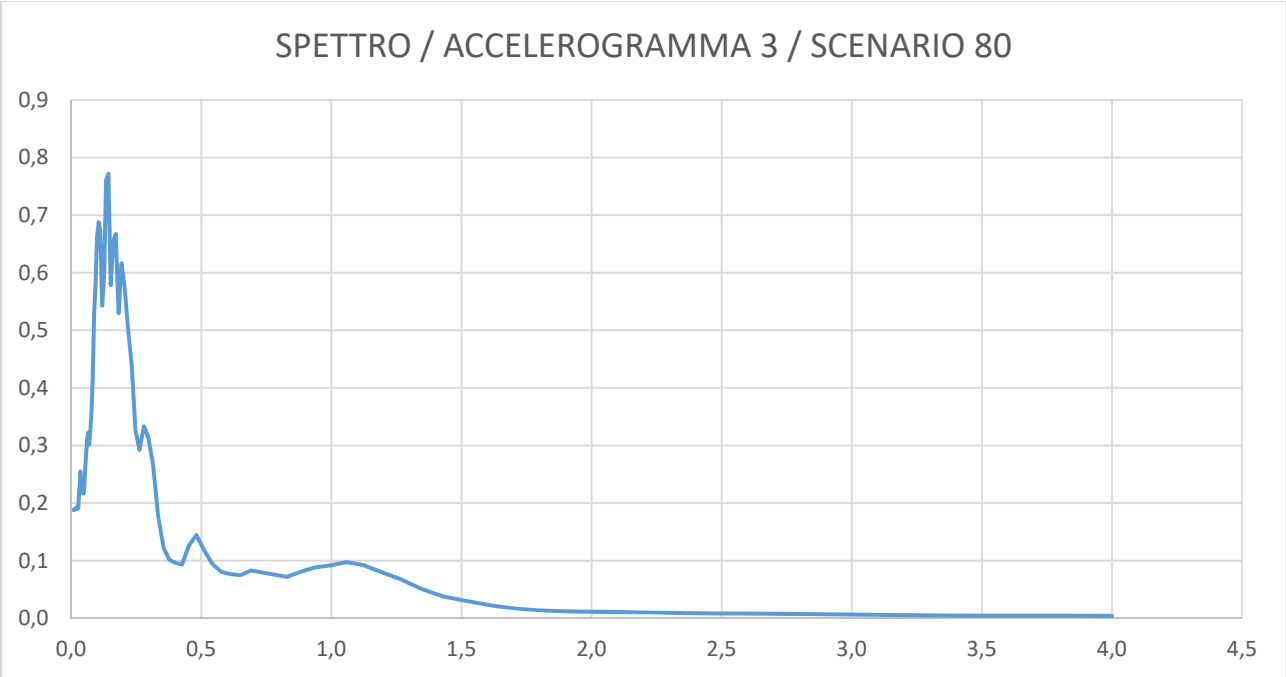
SPETTRO / ACCELEROGRAMMA 3 / SCENARIO 80
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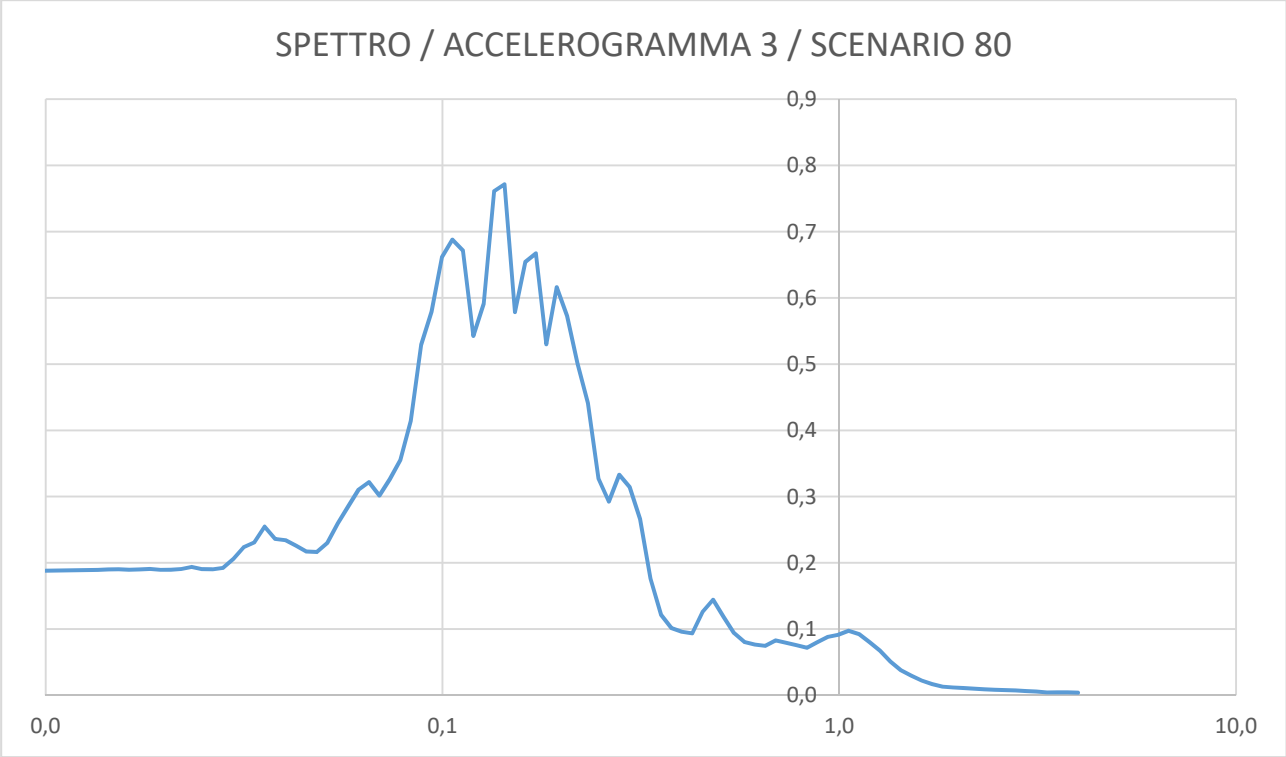
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 3 / SCENARIO 80
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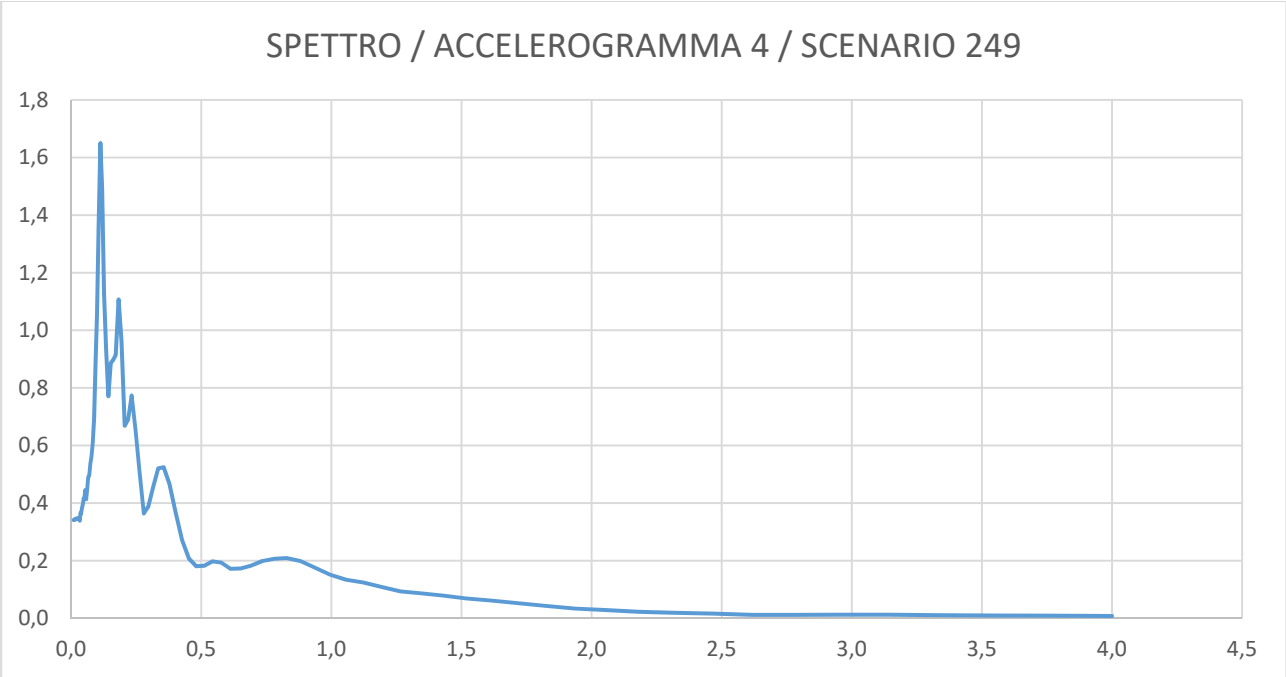
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 4 / SCENARIO 249
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1,6
1,4
1,2
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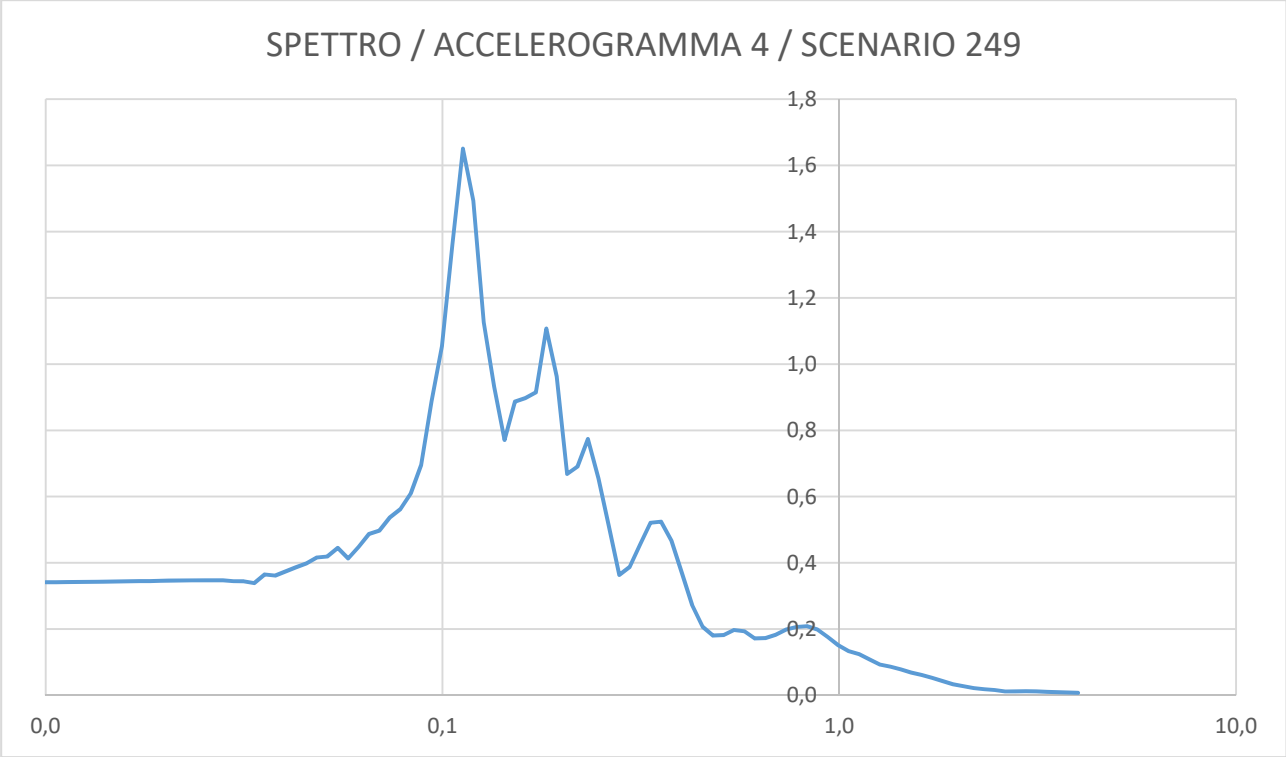
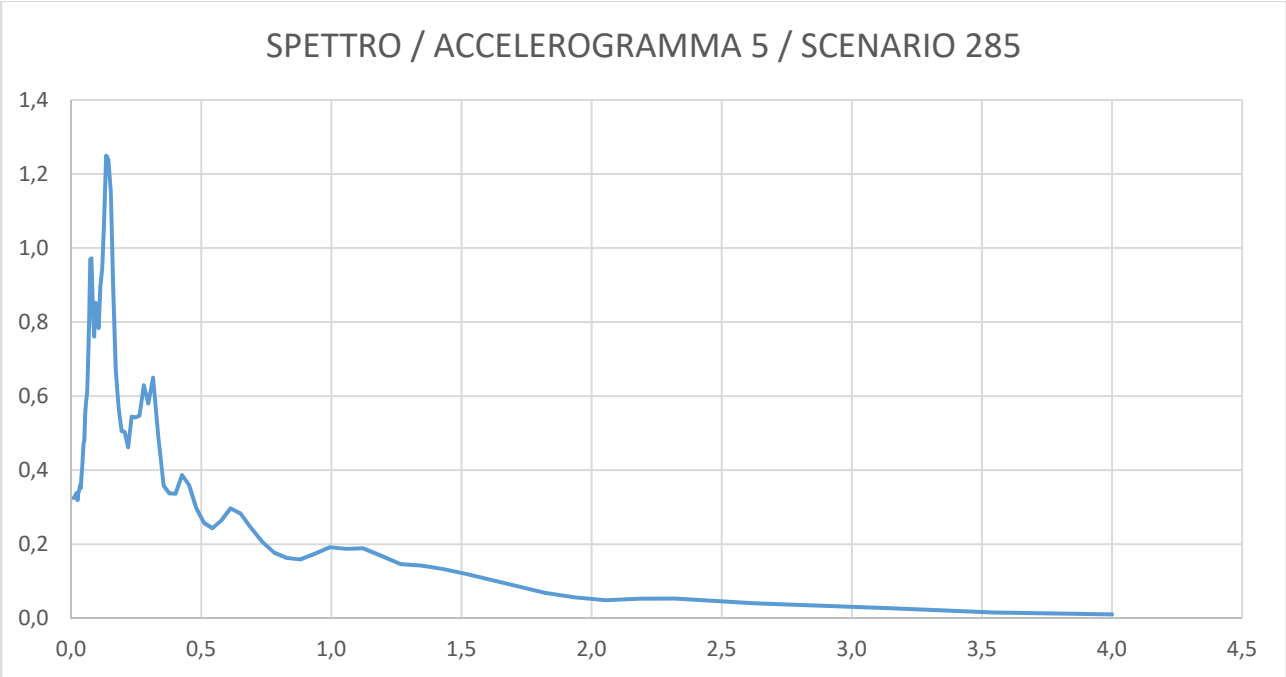
0,8
0,6
0,4
0,2
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 4 / SCENARIO 249
1,8
1,6
1,4
1,2
1,0
0,8
0,6
0,4
0,2
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 285
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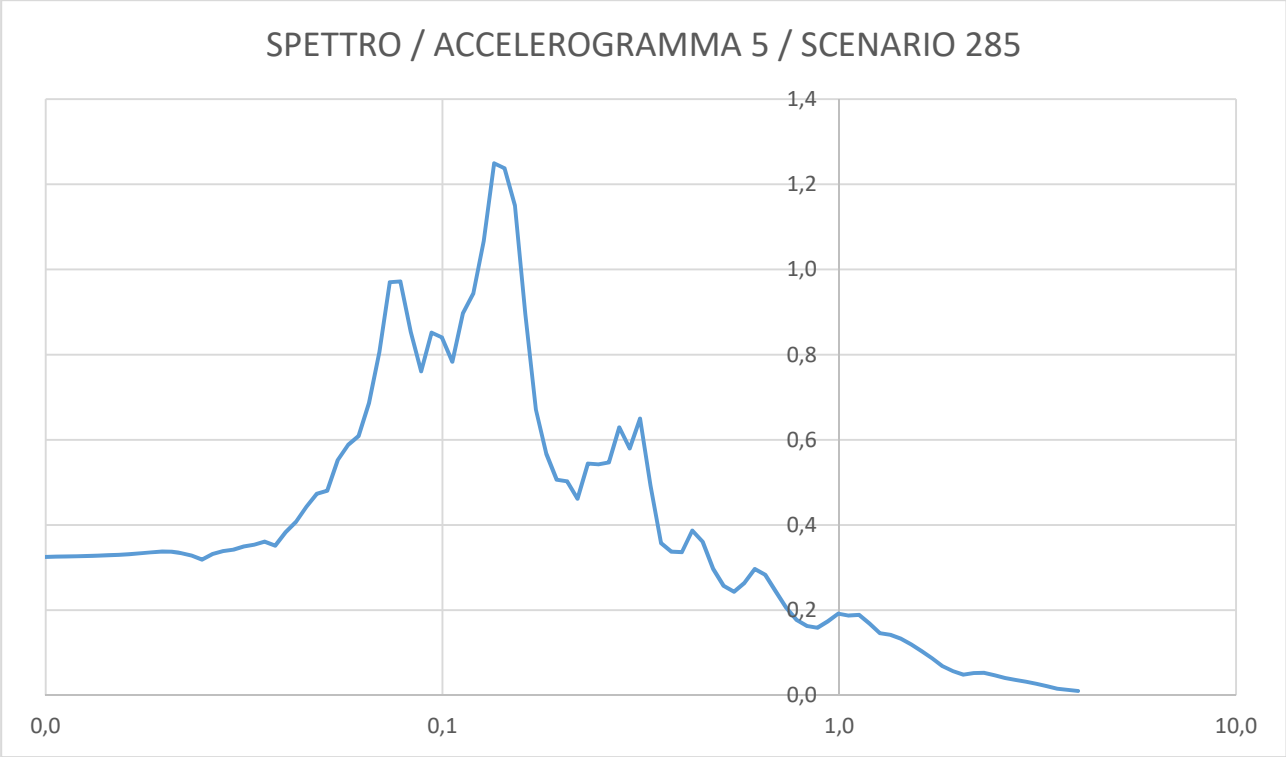
1,2
1,0
0,8
0,6
0,4
0,2
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 285
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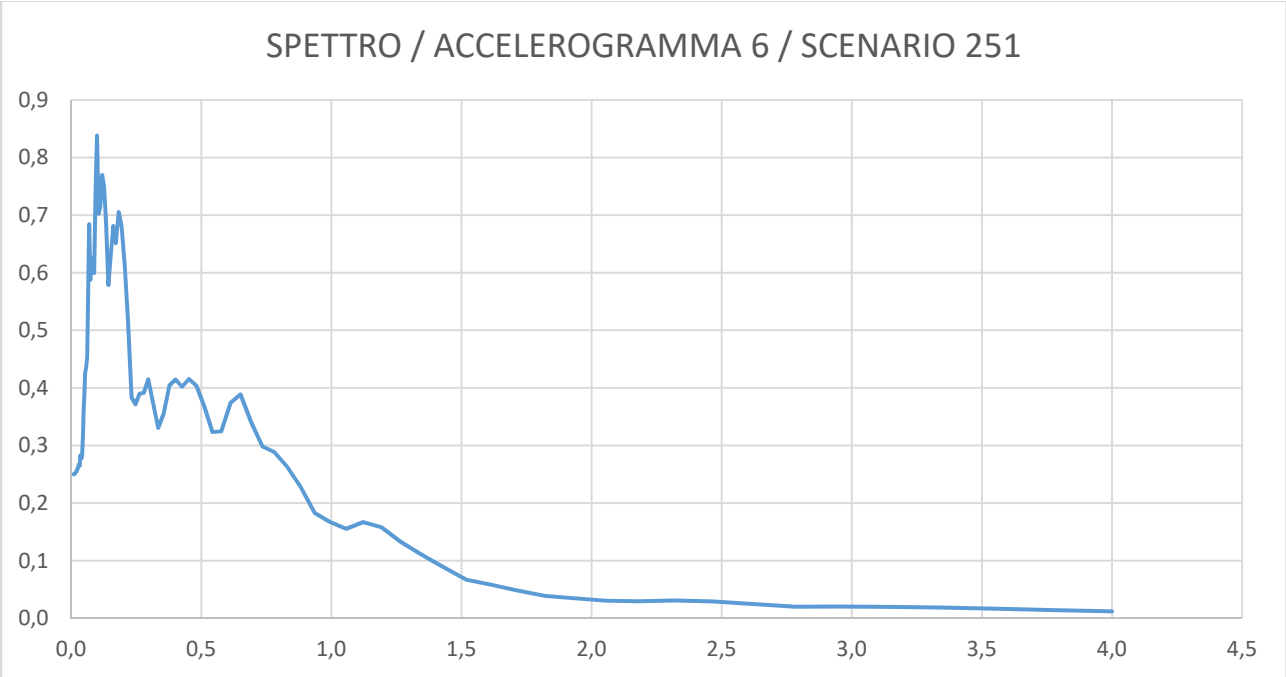
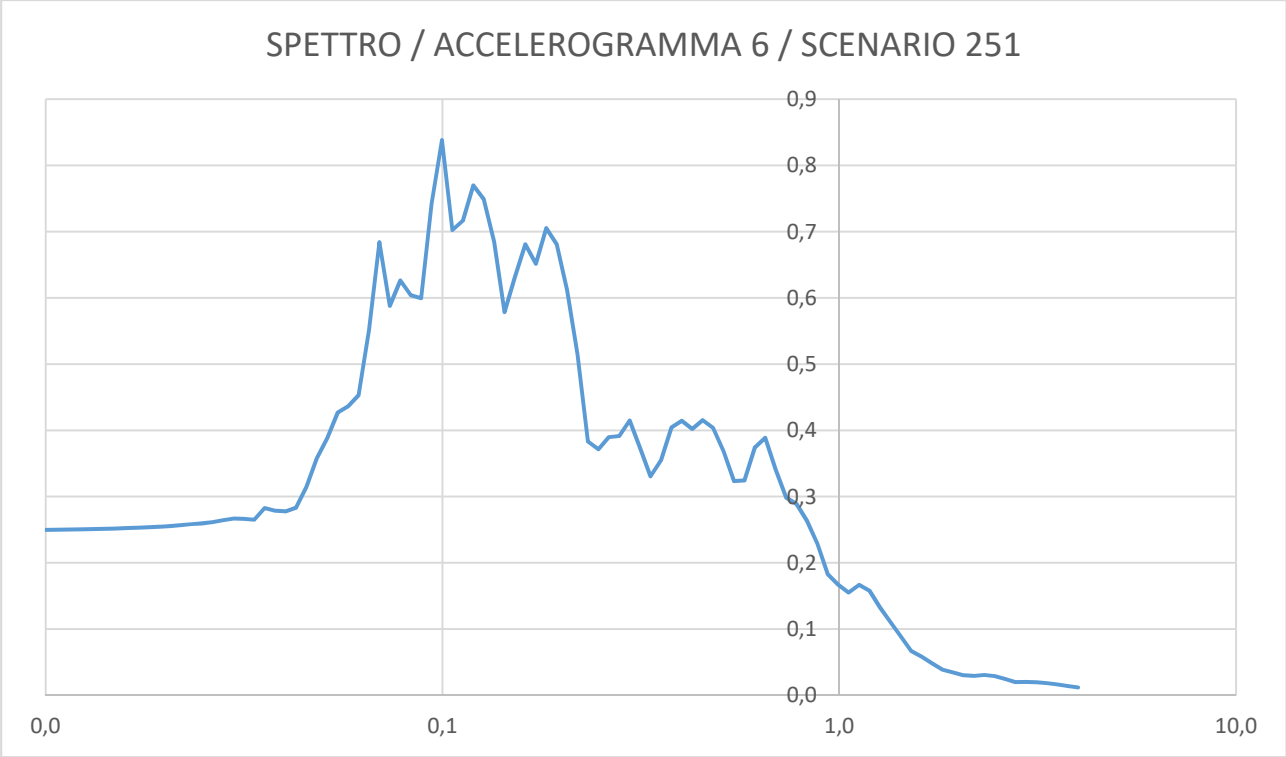
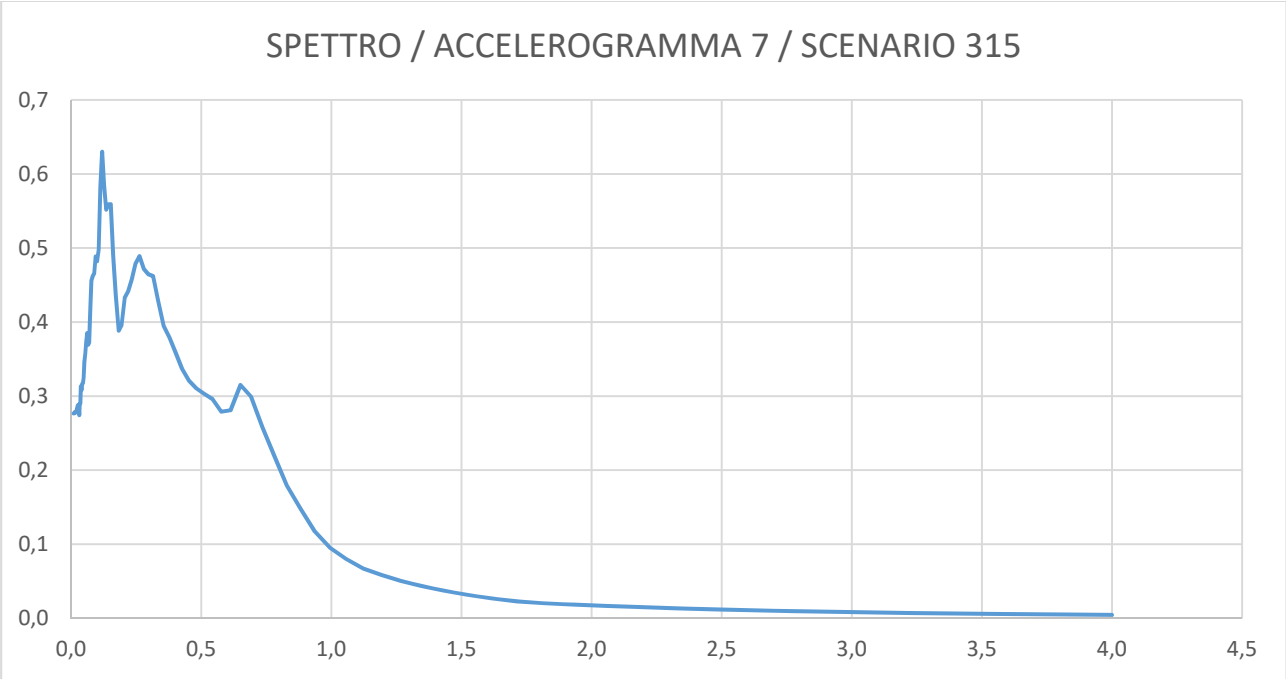
1,2
1,0
0,8
0,6
0,4
0,2
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 251
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 251
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 315
0,7
0,6
0,5
0,4
0,3
0,2
0,1
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0,0
0,5
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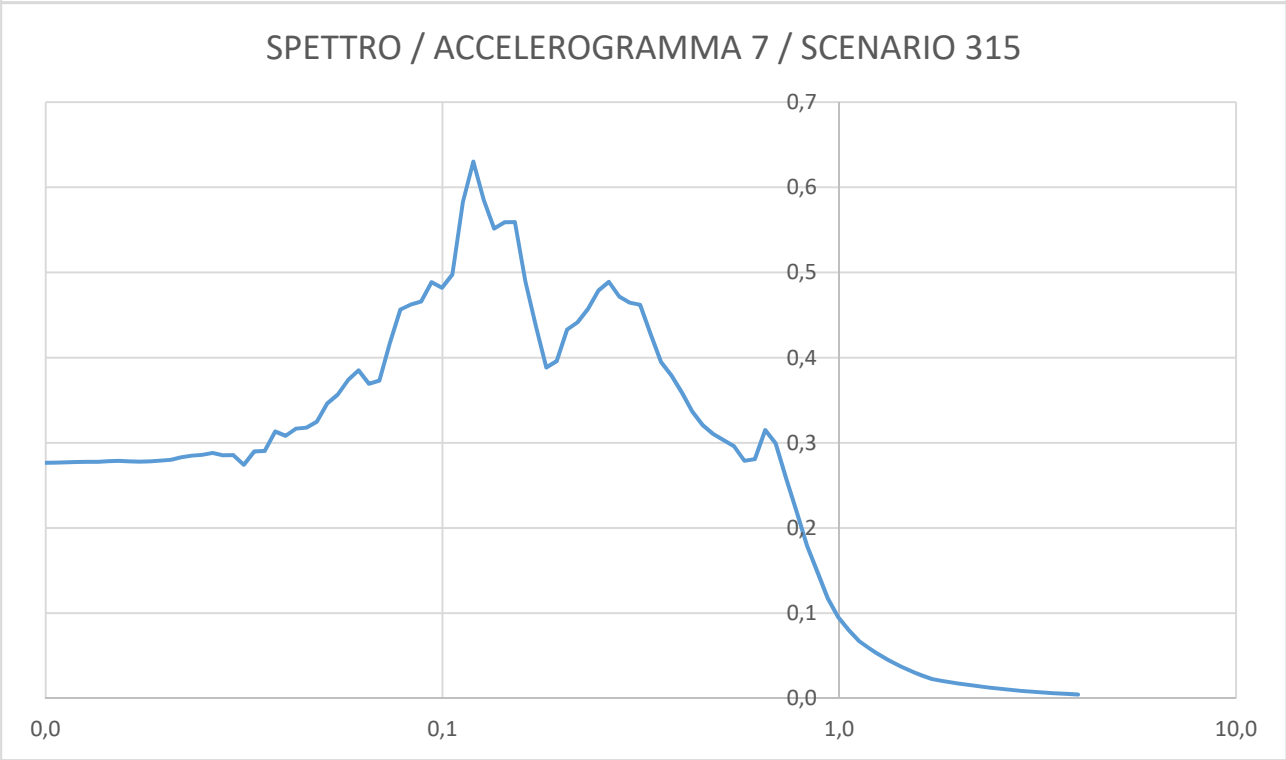
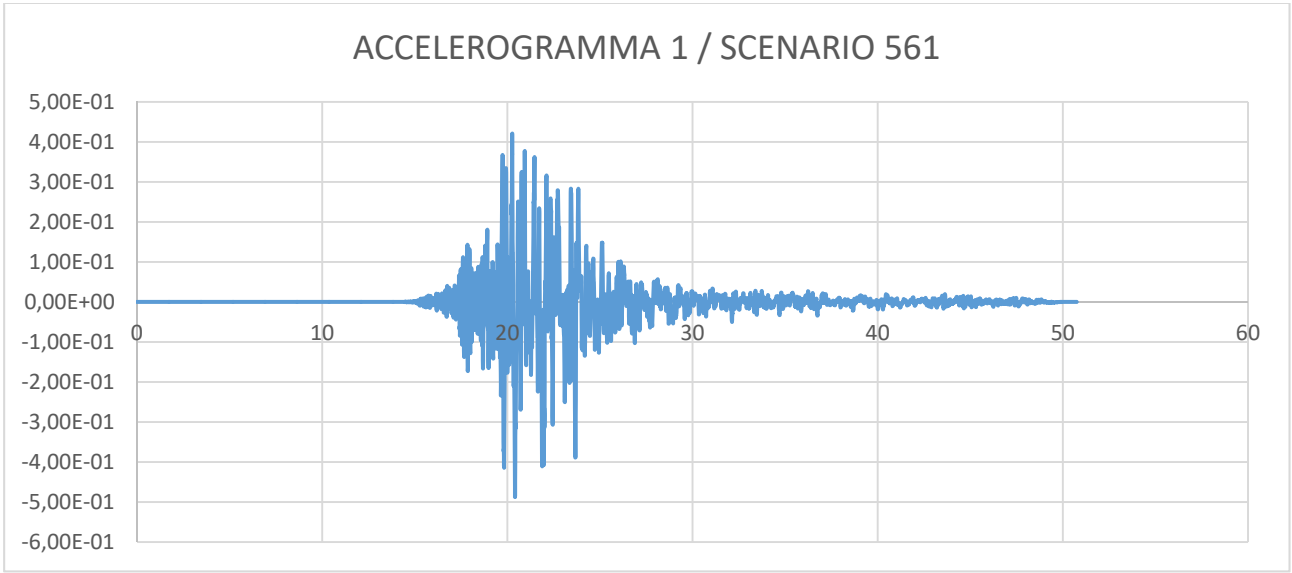
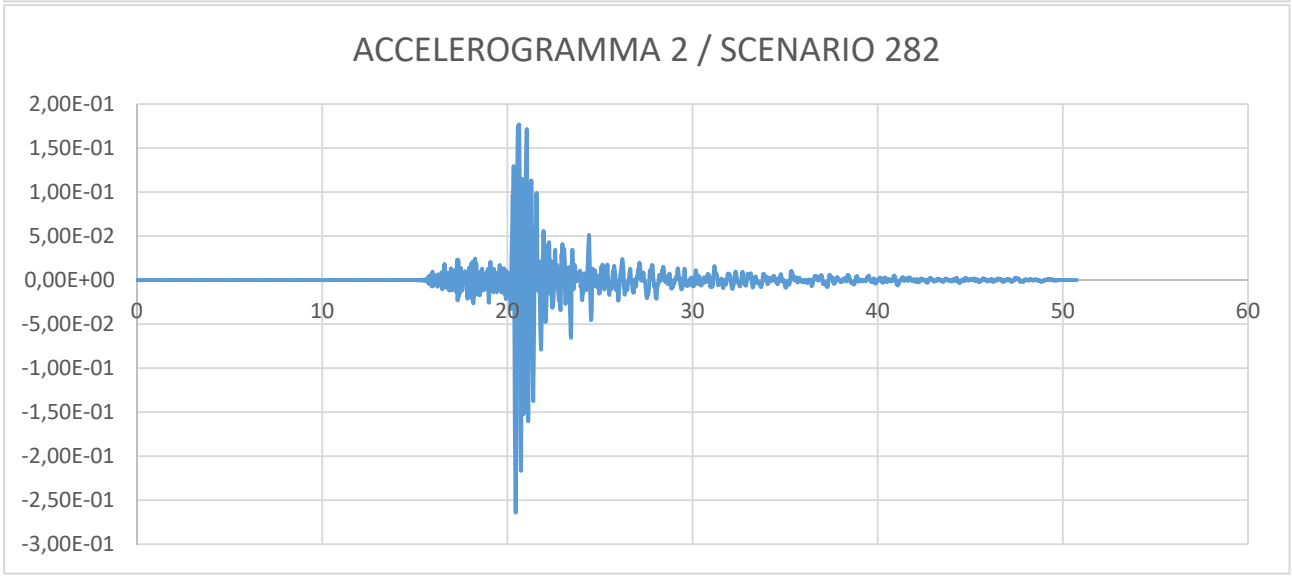
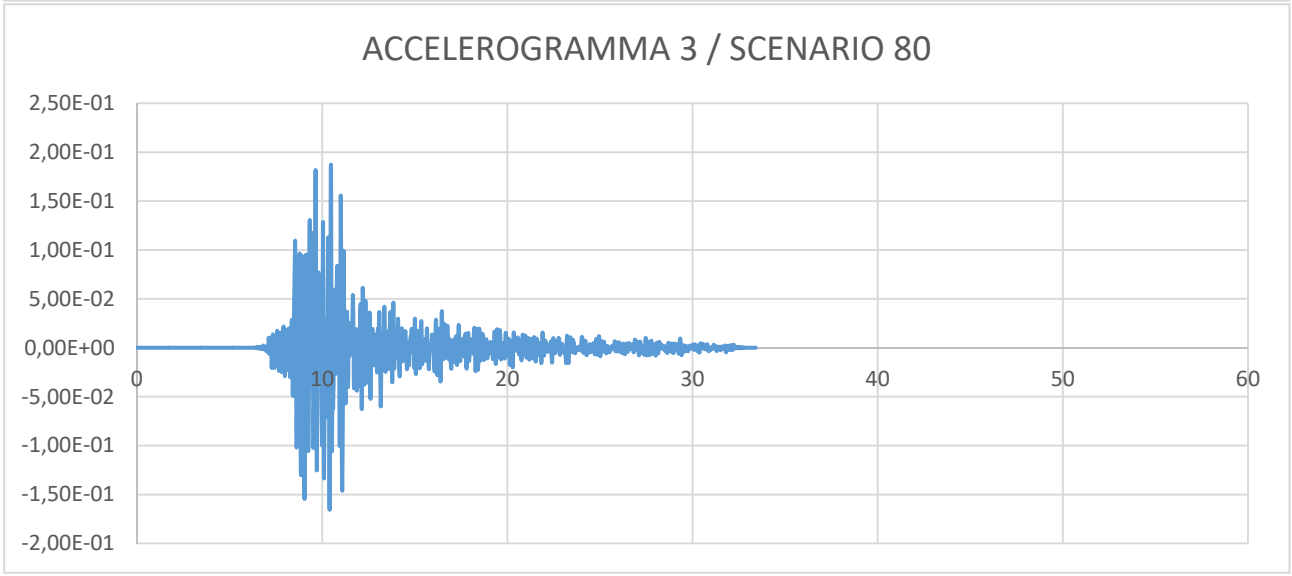
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 315
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0


ACCELEROGRAMMA 1 / SCENARIO 561
5,00E-01
4,00E-01
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
-4,00E-01
-5,00E-01
-6,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 2 / SCENARIO 282
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 3 / SCENARIO 80
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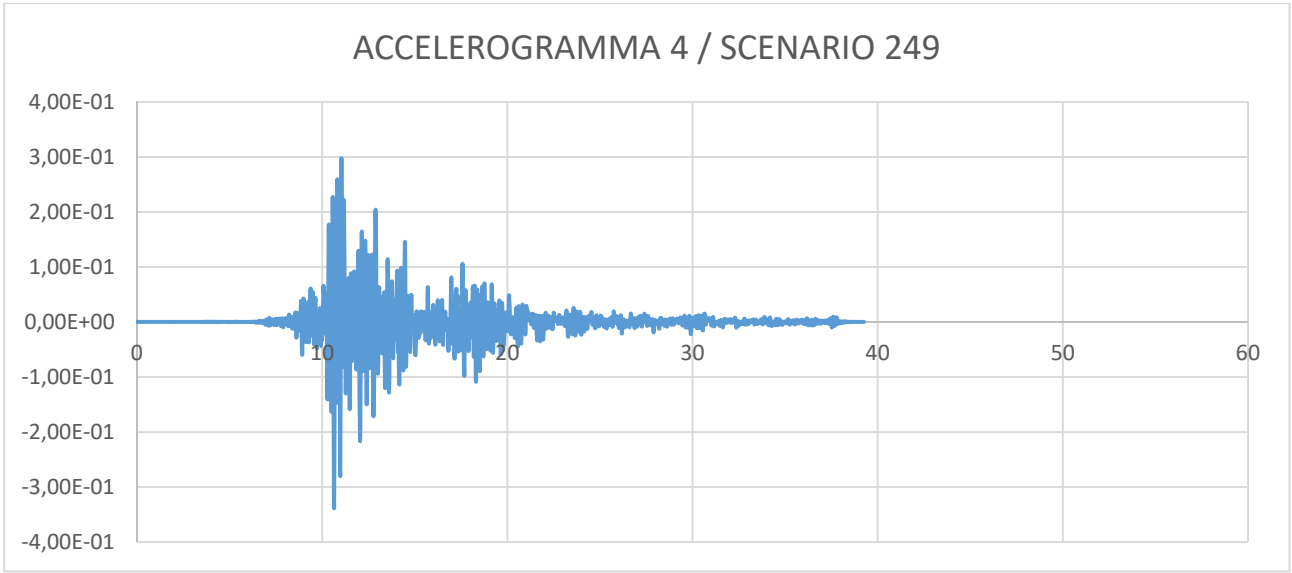
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 4 / SCENARIO 249
4,00E-01
3,00E-01
2,00E-01
1,00E-01
0,00E+00
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-2,00E-01
-3,00E-01
-4,00E-01
0
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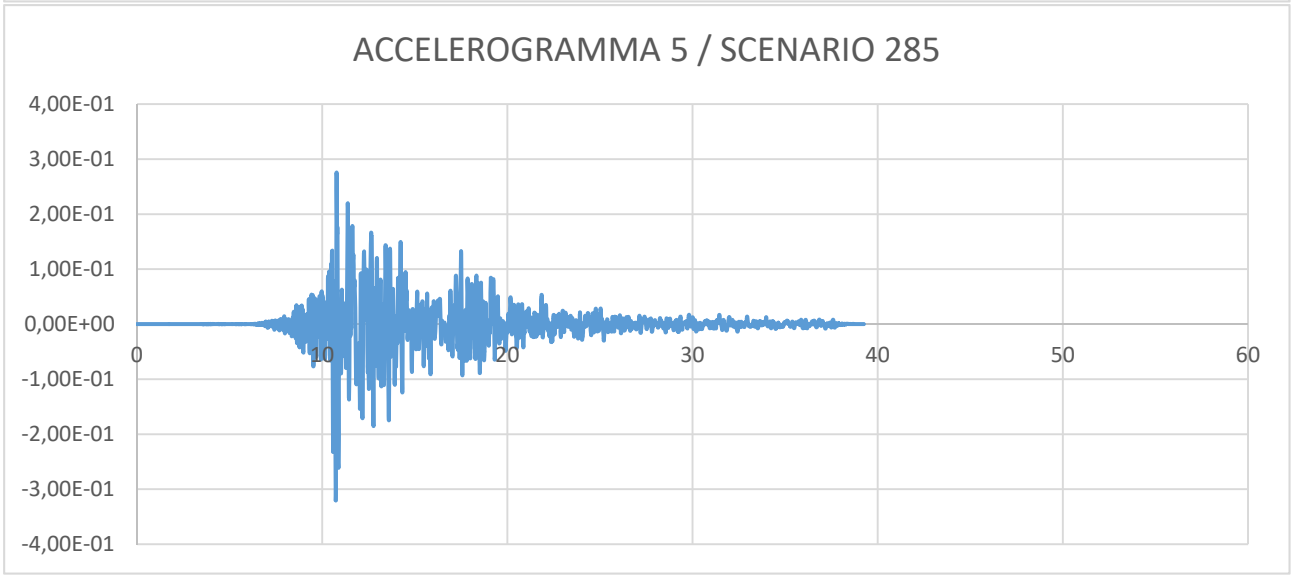
20
30
40
50
60


ACCELEROGRAMMA 5 / SCENARIO 285
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3,00E-01
2,00E-01
1,00E-01
0,00E+00
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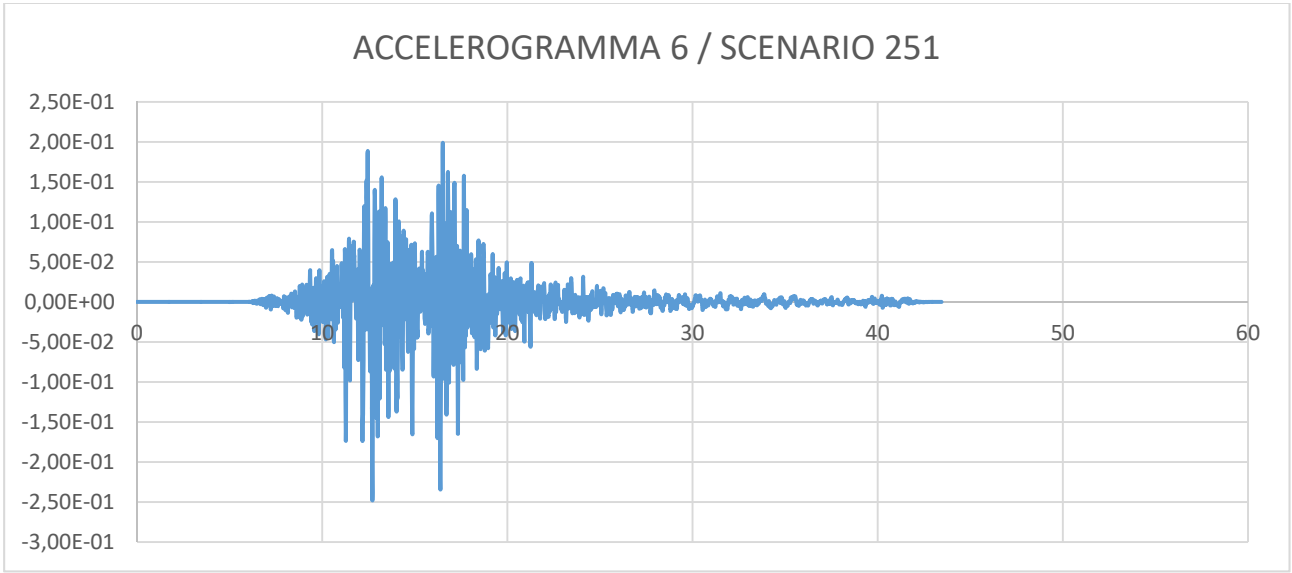
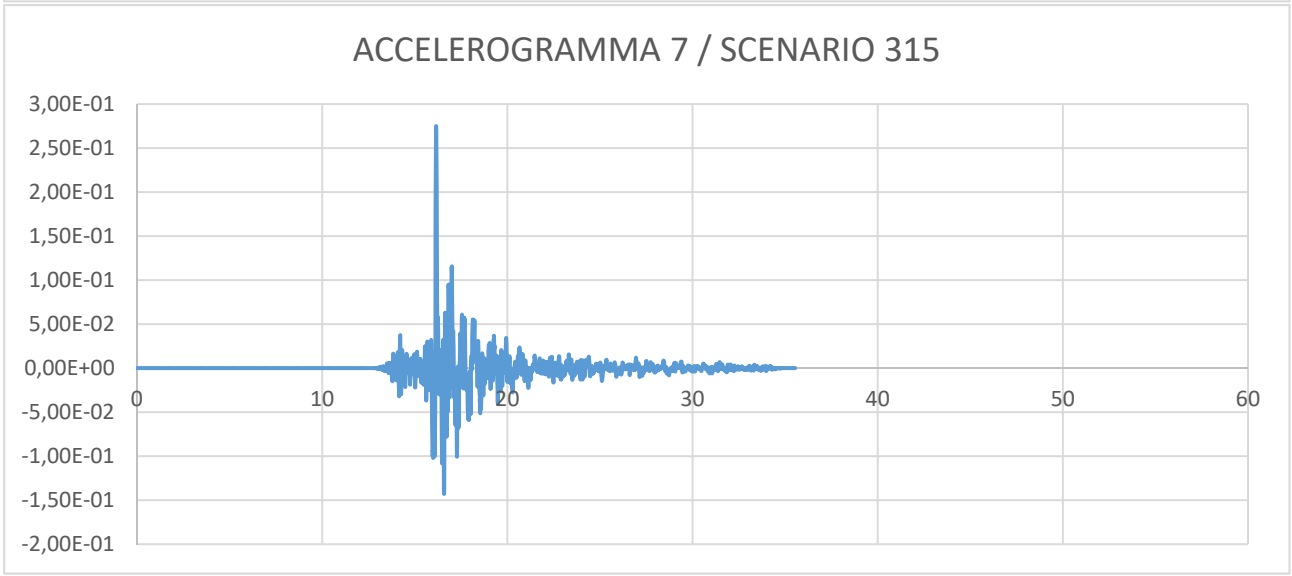
-4,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 6 / SCENARIO 251
2,50E-01
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 7 / SCENARIO 315
3,00E-01
2,50E-01
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
0
10
20
30
40
50
60

3. MOPS 2004

FA 0.1-0.5	FA 0.4-0.8	FA 0.7-1.1
1.37	1.28	1.18

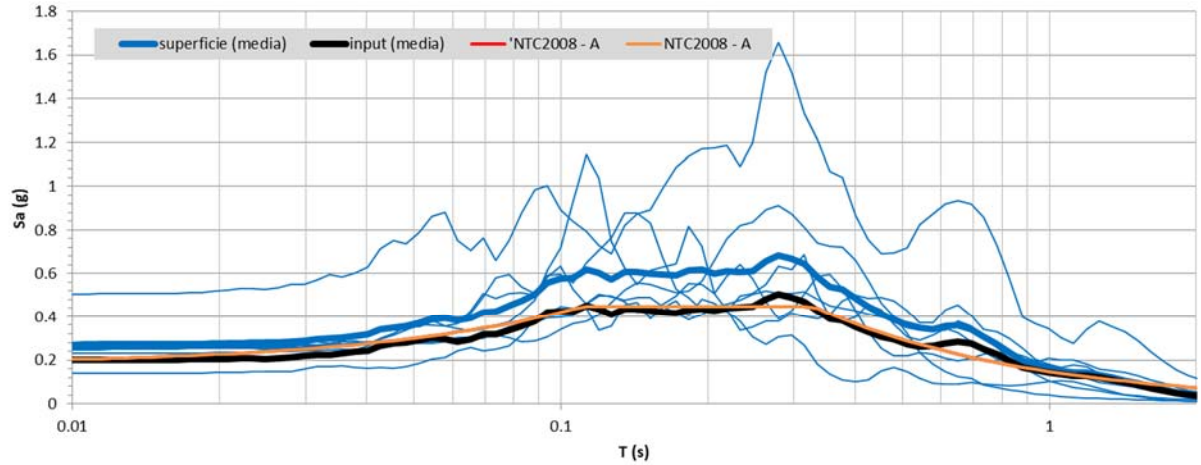
FA 0.1-0.5		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.35	1.37	1.39
FA 0.4-0.8		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.25	1.28	1.32
FA 0.7-1.1		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.14	1.18	1.23

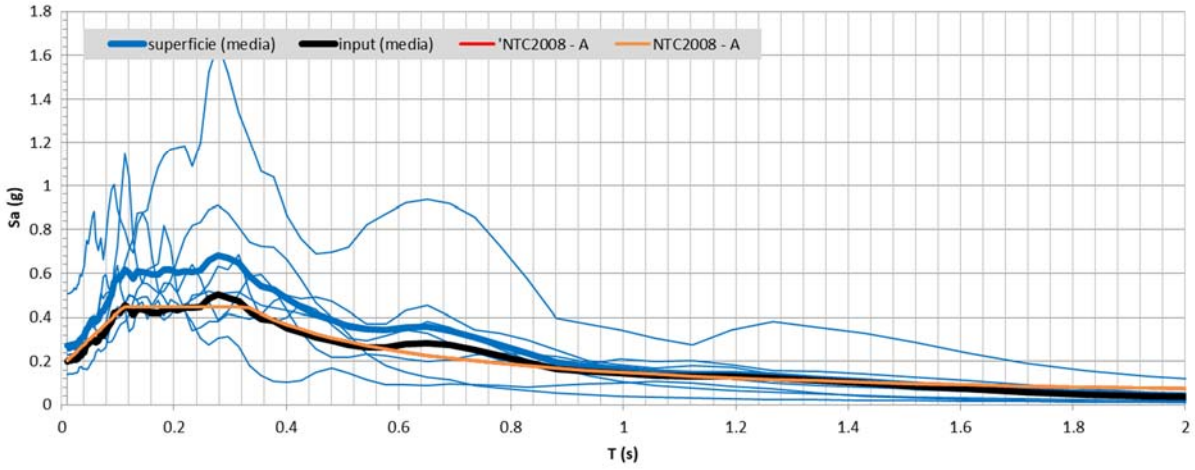
$$m_{ln} = \frac{1}{7}\sum_{i=1}^{7} \ln(FA_i)$$

$$FA_{rif} = e^{m_{ln}}$$

$$s_{ln} = \sqrt{\frac{1}{6}\sum_{i=1}^{7} [\ln(FA_i) - m_{ln}]^2}$$

$$e^{m_{ln}-s_{ln}} \quad e^{m_{ln}+s_{ln}}$$





TEMPI	ACCELEROGRAMMA 1 SCENARIO 8	ACCELEROGRAMMA 2 SCENARIO 520	ACCELEROGRAMMA 3 SCENARIO 171	ACCELEROGRAMMA 4 SCENARIO 172	ACCELEROGRAMMA 5 SCENARIO 523	ACCELEROGRAMMA 6 SCENARIO 174	ACCELEROGRAMMA 7 SCENARIO 273
0.01000	0.52296903	0.26641507	0.13939866	0.25657309	0.25304671	0.22997341	0.25397231
0.01062	0.52336620	0.26647224	0.13945513	0.25670607	0.25331586	0.23010362	0.25406589
0.01129	0.52381531	0.26653690	0.13952871	0.25685725	0.25361897	0.23025170	0.25418511
0.01199	0.52431508	0.26661010	0.13962343	0.25699399	0.25396454	0.23042039	0.25423489
0.01274	0.52487741	0.26669304	0.13974311	0.25717081	0.25432967	0.23061290	0.25425818
0.01353	0.52516207	0.26678703	0.13983915	0.25735876	0.25475561	0.23083933	0.25443052
0.01438	0.52468579	0.26689400	0.14011795	0.25758008	0.25527034	0.23109121	0.25444360
0.01528	0.52556896	0.26701488	0.14029517	0.25786243	0.25569870	0.23138231	0.25508752
0.01623	0.52549517	0.26715227	0.14038303	0.25815458	0.25645739	0.23171377	0.25575916
0.01724	0.52714134	0.26729768	0.14011654	0.25844323	0.25787240	0.23210859	0.25580642
0.01832	0.52450825	0.26746290	0.14001292	0.25853496	0.25948242	0.23255289	0.25574390
0.01946	0.52986644	0.26760996	0.13985130	0.25887873	0.26060702	0.23301161	0.25609942
0.02067	0.53494012	0.26786571	0.14070906	0.25918473	0.26114859	0.23352960	0.25690686
0.02196	0.54858018	0.26825049	0.14322215	0.25957433	0.25951447	0.23463373	0.25896270
0.02333	0.55571134	0.26856249	0.14482910	0.25890008	0.25627276	0.23556664	0.25973771
0.02479	0.54847950	0.26870416	0.14093914	0.25847033	0.25076026	0.23598411	0.25911847
0.02634	0.55185208	0.26909705	0.14192785	0.25863530	0.25653718	0.23733534	0.25798616
0.02798	0.55521582	0.27004482	0.14980296	0.25807809	0.26008092	0.23953207	0.25520089
0.02972	0.53016783	0.27073774	0.16498631	0.26773422	0.26071998	0.23976810	0.25706669
0.03158	0.59092858	0.26860043	0.18089312	0.28056848	0.26688630	0.23774824	0.26335936
0.03355	0.64452424	0.27157140	0.17295965	0.27044524	0.26989697	0.23696317	0.27022031
0.03564	0.61773794	0.27388286	0.18866774	0.28043114	0.27648711	0.24181861	0.29065112
0.03786	0.61118923	0.27930638	0.17554286	0.30371359	0.27015565	0.23947161	0.28660095
0.04023	0.61477596	0.28388546	0.16321070	0.32083089	0.27483280	0.24026411	0.27357731
0.04274	0.68787194	0.28431763	0.16713094	0.34357759	0.30024797	0.24627762	0.27260994
0.04540	0.74677265	0.28401420	0.15746716	0.34064750	0.33312252	0.26837859	0.26219753
0.04824	0.71946591	0.28043955	0.16158071	0.34002263	0.36826018	0.28746966	0.26231131
0.05125	0.70798420	0.27551006	0.18048108	0.35122282	0.35976396	0.31761099	0.26167157
0.05444	0.76624696	0.28145611	0.19945603	0.37974272	0.38129751	0.32047922	0.27227597
0.05784	0.82442607	0.28439650	0.19061635	0.36133838	0.36903348	0.31702634	0.28325193
0.06145	0.74187278	0.27975664	0.23043304	0.35034563	0.37455460	0.33047478	0.29921965
0.06528	0.69379386	0.29226399	0.24413574	0.34007059	0.40733676	0.41963547	0.30226048
0.06935	0.77545893	0.29778907	0.23102647	0.35488332	0.48003355	0.49510948	0.30168344
0.07368	0.68485740	0.29977358	0.24819423	0.38656890	0.56815091	0.43702089	0.32467307
0.07828	0.81606319	0.28076950	0.25901067	0.40732118	0.59004244	0.48478435	0.35286488
0.08316	1.03327041	0.28091267	0.35367388	0.45367598	0.55089203	0.51066184	0.36609320
0.08835	1.19444301	0.29654999	0.43803941	0.52488945	0.53137750	0.54006474	0.37809431
0.09386	1.22899582	0.31183863	0.48722445	0.69711626	0.61507849	0.67126410	0.40244490
0.09972	0.98162371	0.35026747	0.53452526	0.80838617	0.62772620	0.74567277	0.40614209
0.10594	0.91460469	0.39232762	0.49706945	1.04572335	0.61716875	0.60145846	0.41725686
0.11255	0.88188151	0.40973666	0.49003883	1.28227292	0.72665684	0.53978022	0.47496992
0.11957	0.78352248	0.43372404	0.37943333	1.15027757	0.76600335	0.57697077	0.51872756
0.12703	0.78994589	0.52391108	0.41292120	0.88359348	0.83651242	0.55951203	0.50223629
0.13495	0.95242691	0.57393064	0.53208299	0.72665941	0.99053820	0.51579662	0.48984498
0.14337	0.95287137	0.57229577	0.54688616	0.56823880	0.97509107	0.44188504	0.50968429
0.15232	0.98983901	0.55558332	0.41031650	0.66503895	0.91203866	0.48289293	0.52200654
0.16182	0.98408299	0.51353226	0.46513141	0.65930335	0.72619183	0.51085892	0.47014956
0.17192	1.04771086	0.46261705	0.48908319	0.67331034	0.55792703	0.48670495	0.43182515
0.18264	1.06428567	0.49132920	0.39611528	0.77276081	0.43244745	0.53864615	0.39769909
0.19404	1.08968581	0.54802789	0.44997748	0.69562481	0.40227181	0.52969888	0.40197082
0.20614	1.10953460	0.60366200	0.41922887	0.45812384	0.42880143	0.48676204	0.43253327
0.21901	1.10663807	0.69458854	0.37841587	0.55845209	0.43430401	0.41027627	0.44439549
0.23267	1.00257001	0.76234653	0.36177916	0.60531878	0.49242623	0.30288051	0.46174177
0.24718	1.17823788	0.86350195	0.28202938	0.52795607	0.49438411	0.34044641	0.48344817
0.26261	1.50922584	0.93326958	0.25576918	0.42347664	0.57687115	0.35184869	0.49452608
0.27899	1.64840598	0.95726058	0.29551397	0.36374109	0.66116450	0.35678714	0.48462465
0.29640	1.50716916	0.92136607	0.29778916	0.40903607	0.66850196	0.38980480	0.48641789
0.31489	1.34925713	0.85787539	0.25834164	0.49439100	0.74093363	0.38230348	0.48879975
0.33453	1.24659523	0.79043344	0.17617556	0.57327044	0.54145023	0.37661318	0.45757818
0.35540	1.10160360	0.78871865	0.12797484	0.58436604	0.43260810	0.40104024	0.42964057
0.37758	1.08429586	0.77365843	0.10598606	0.52263143	0.41035971	0.46275060	0.42244508
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0.42616	0.75786929	0.61112073	0.10688559	0.32341602	0.48376956	0.47363297	0.42092208
0.45275	0.69971715	0.49295839	0.14589895	0.25153742	0.45398893	0.47890843	0.41178231
0.48099	0.69851450	0.41373078	0.16481389	0.21630431	0.37940438	0.46353905	0.39996420
0.51100	0.72200777	0.33426207	0.13993001	0.21468354	0.31019677	0.41846313	0.38860592
0.54288	0.83904347	0.23896887	0.11213399	0.22648495	0.29586374	0.36318595	0.37130463
0.57675	0.88625838	0.18037826	0.09219750	0.21747623	0.31483601	0.36265282	0.34560065
0.61274	0.91400127	0.15367348	0.08780558	0.20098858	0.34049951	0.42094017	0.34706774
0.65096	0.93086934	0.12864674	0.08494968	0.19091987	0.32504655	0.44196781	0.38907102
0.69158	0.91427734	0.11329596	0.09309623	0.20325922	0.28119117	0.39286714	0.36413564
0.73472	0.85197601	0.08560897	0.08739393	0.22177248	0.23763104	0.32763489	0.30981608
0.78056	0.71918354	0.07474359	0.08498069	0.22931556	0.20450839	0.32052331	0.26089382
0.82926	0.57380536	0.06460738	0.07845465	0.22739892	0.18768251	0.29061578	0.20950271
0.88100	0.39596100	0.05507627	0.08469006	0.21519979	0.18263876	0.24707082	0.17425894
0.93596	0.36643758	0.04604001	0.09324110	0.19114062	0.18539946	0.19745342	0.13796105
0.99435	0.34093507	0.03905305	0.09836959	0.16569887	0.20685938	0.17907253	0.10709246
1.05639	0.30141206	0.03356798	0.10371090	0.14317778	0.19676110	0.16475102	0.09004359
1.12230	0.27357459	0.02861975	0.09789288	0.13094072	0.19864403	0.17549809	0.07761806
1.19232	0.33935361	0.02648193	0.08354121	0.11525088	0.18002567	0.16696790	0.06760524
1.26670	0.37814688	0.02446716	0.07116024	0.09613620	0.15665088	0.13784264	0.05837280
1.34573	0.35006409	0.02225773	0.05405343	0.08788235	0.15075228	0.11673169	0.04988985
1.42969	0.32786689	0.02011691	0.03962118	0.08050052	0.14139136	0.09150758	0.04238218
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1.61365	0.23664298	0.01611794	0.02306067	0.06326181	0.10902926	0.06114545	0.03033800
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2.32011	0.07990133	0.00712718	0.00925844	0.01897064	0.05346236	0.03103118	0.01465068
2.46486	0.06873923	0.00615636	0.00843645	0.01638449	0.04744412	0.02946741	0.01302078
2.61864	0.05910201	0.00532244	0.00809371	0.01213523	0.04097725	0.02530671	0.01170759
2.78201	0.05073690	0.00467071	0.00765561	0.01170114	0.03658951	0.02009321	0.01045736
2.95558	0.05016375	0.00414804	0.00663888	0.01214016	0.03202873	0.02039761	0.00921729
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3.33587	0.04670814	0.00328779	0.00456534	0.01023915	0.02189997	0.01879279	0.00710431
3.54400	0.04223131	0.00292075	0.00438090	0.00935889	0.01602565	0.01682030	0.00629580
3.76510	0.03911502	0.00260162	0.00441026	0.00854537	0.01297697	0.01429560	0.00569237
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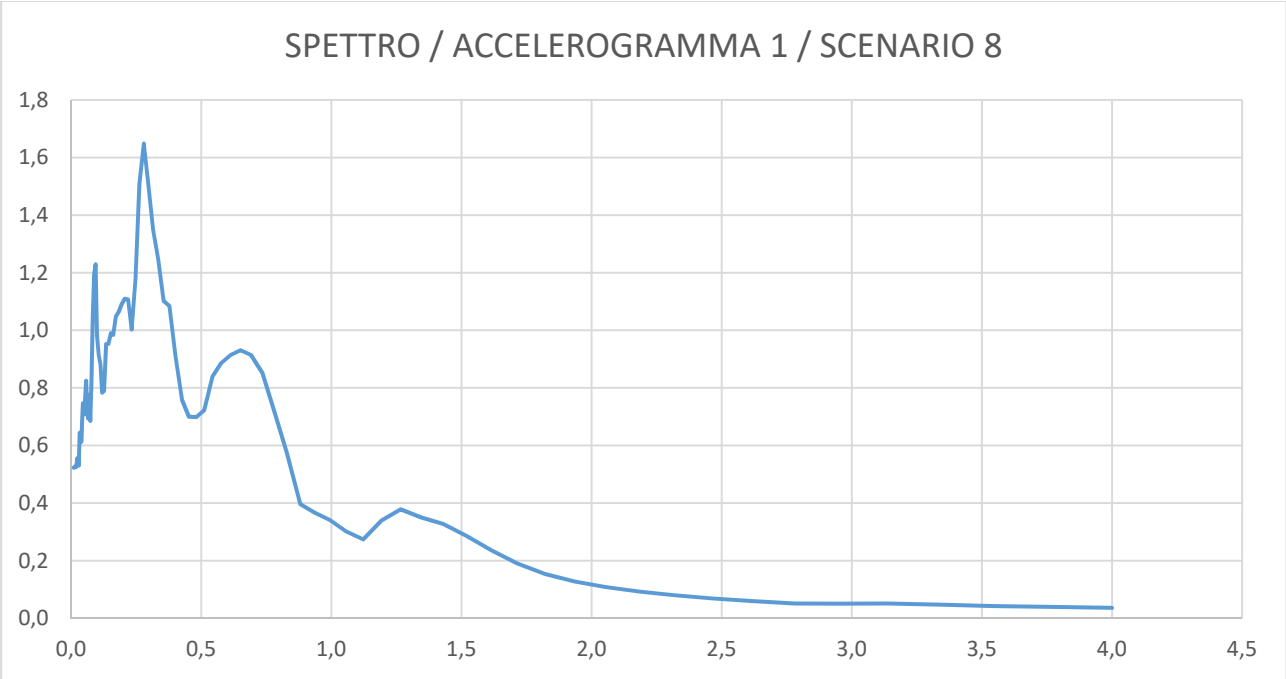
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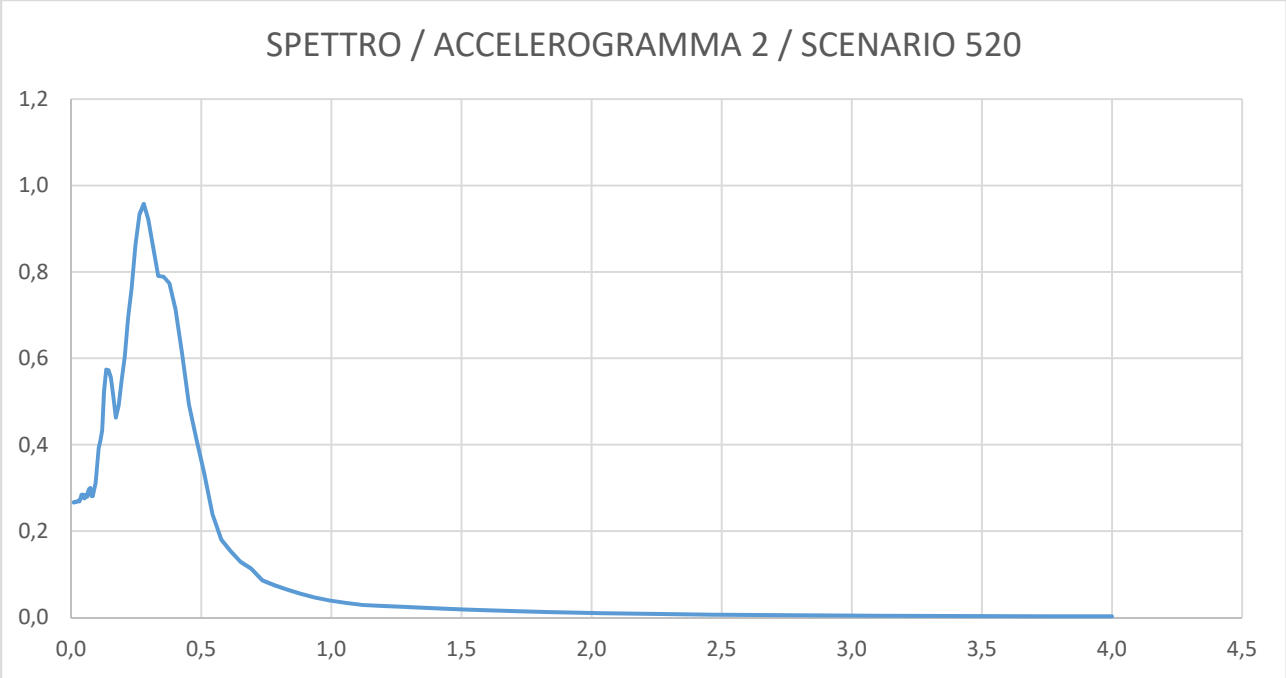
4,5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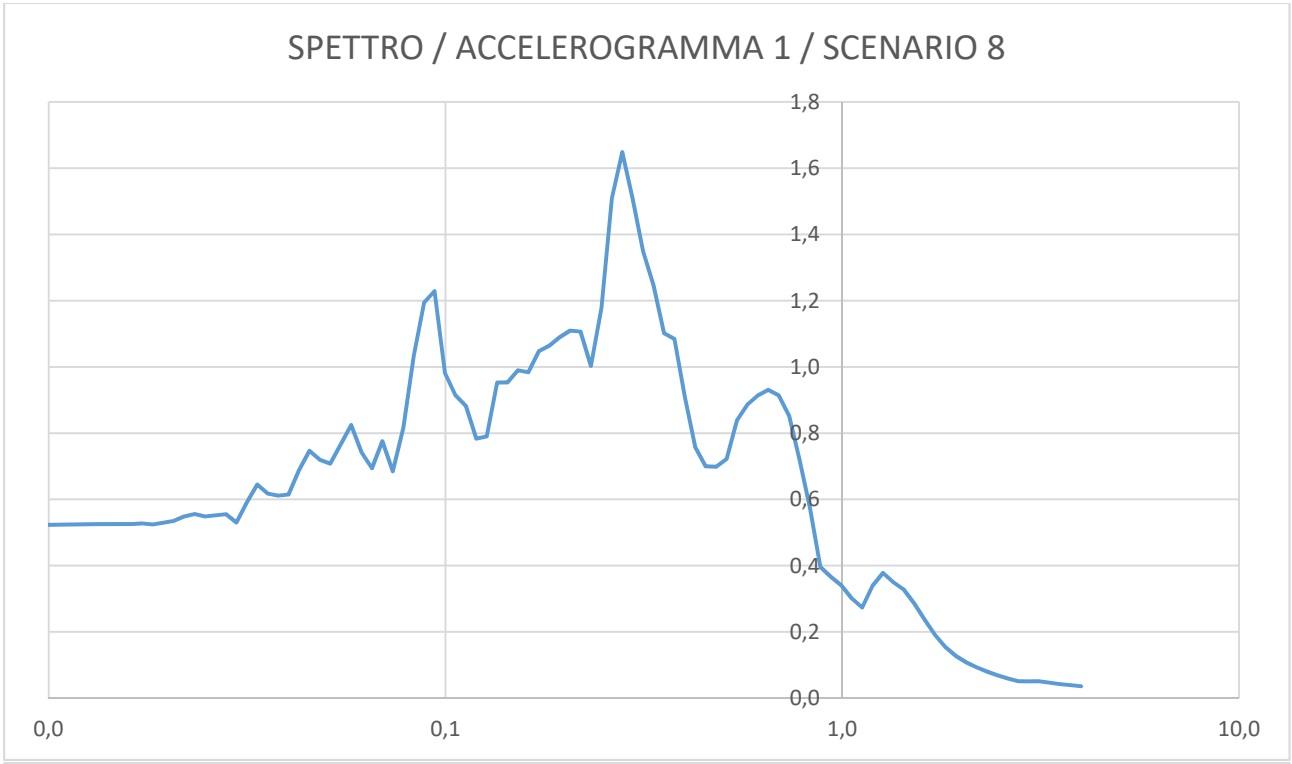
4,5


SPETTRO / ACCELEROGRAMMA 1 / SCENARIO 8
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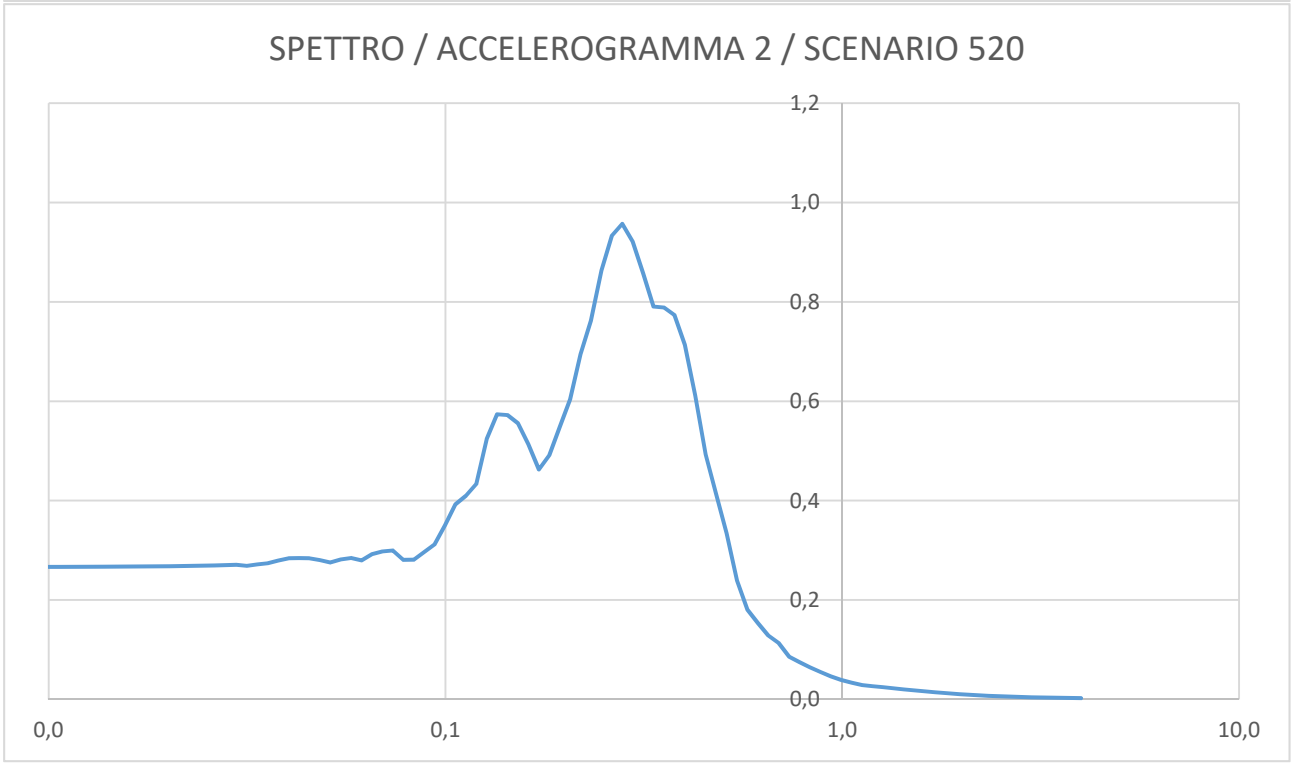
SPETTRO / ACCELEROGRAMMA 2 / SCENARIO 520
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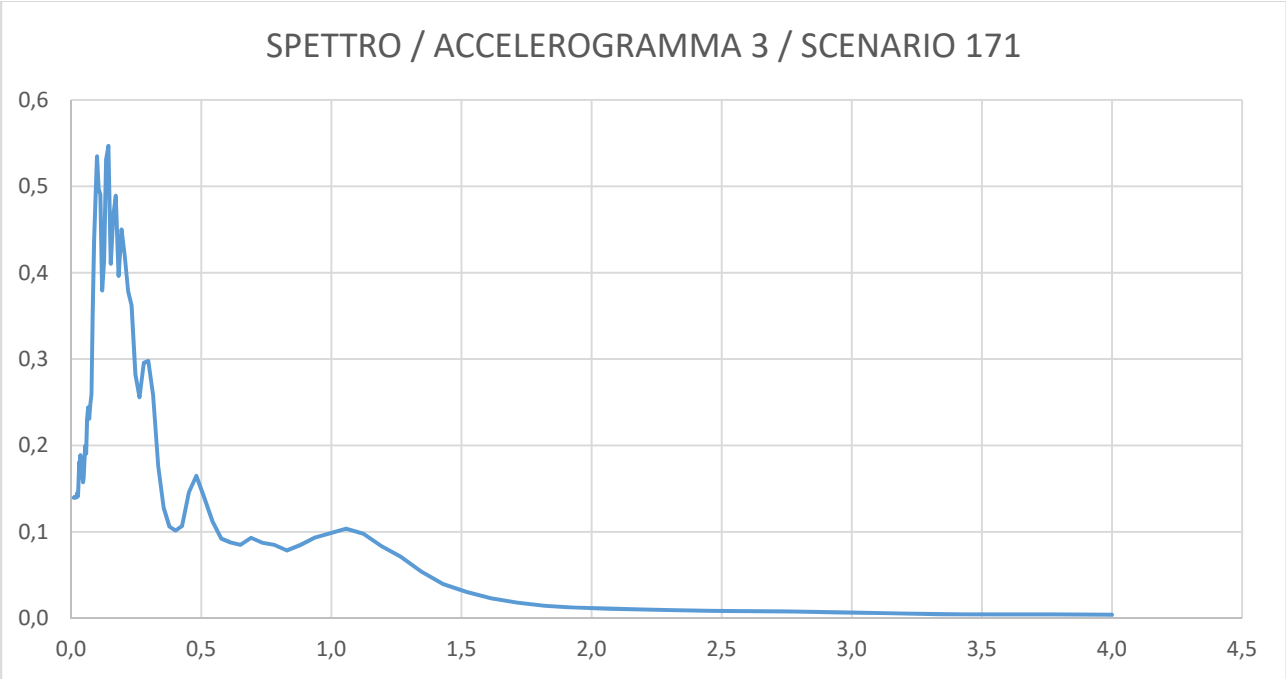
SPETTRO / ACCELEROGRAMMA 3 / SCENARIO 171
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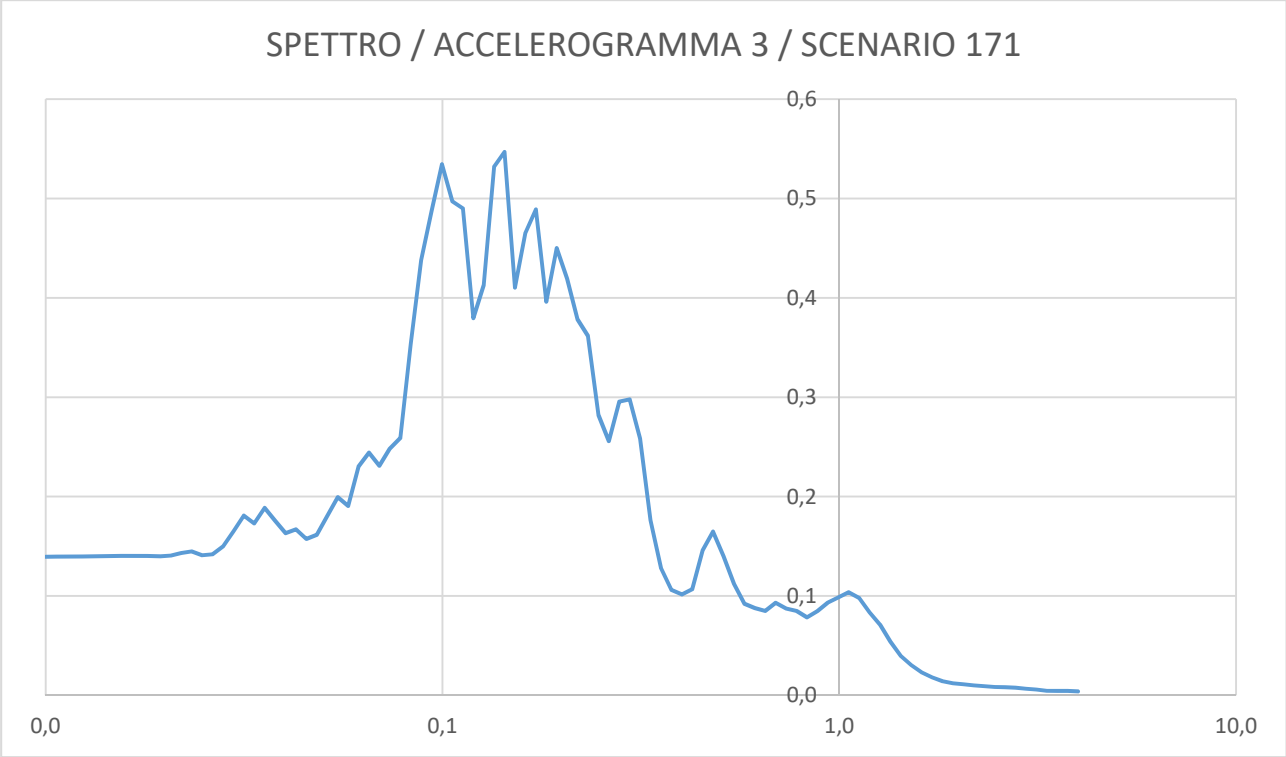
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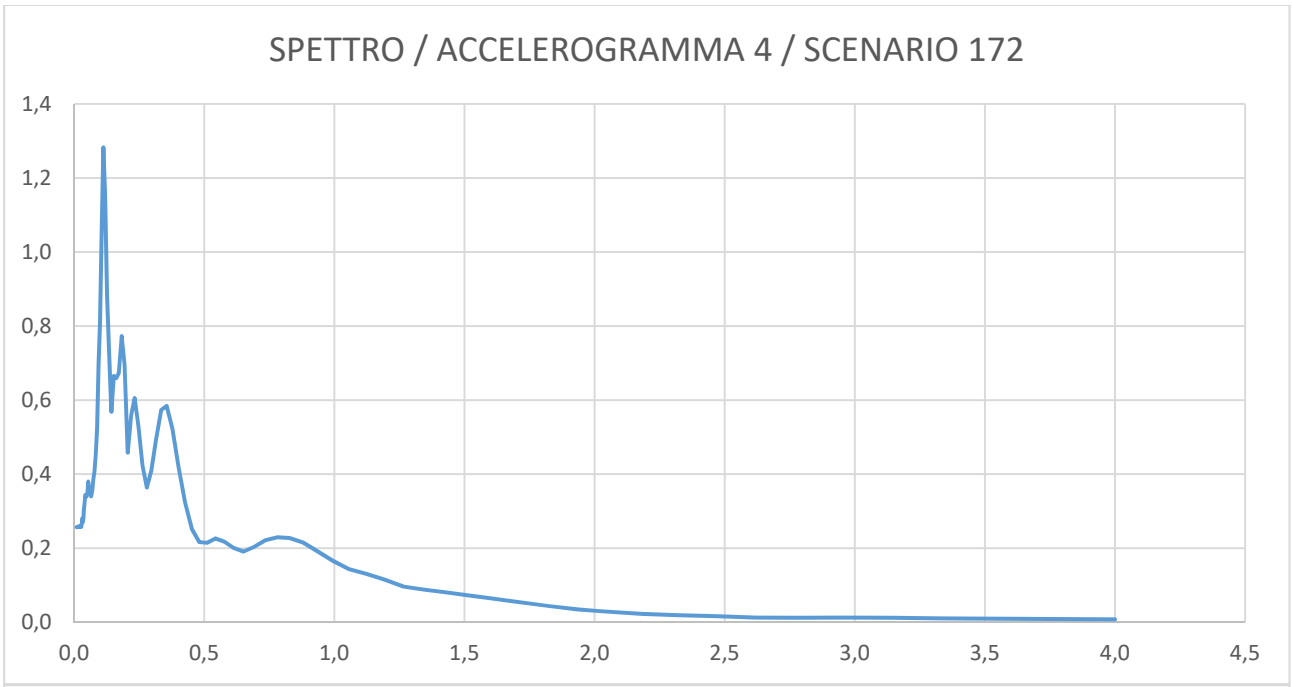
SPETTRO / ACCELEROGRAMMA 4 / SCENARIO 172
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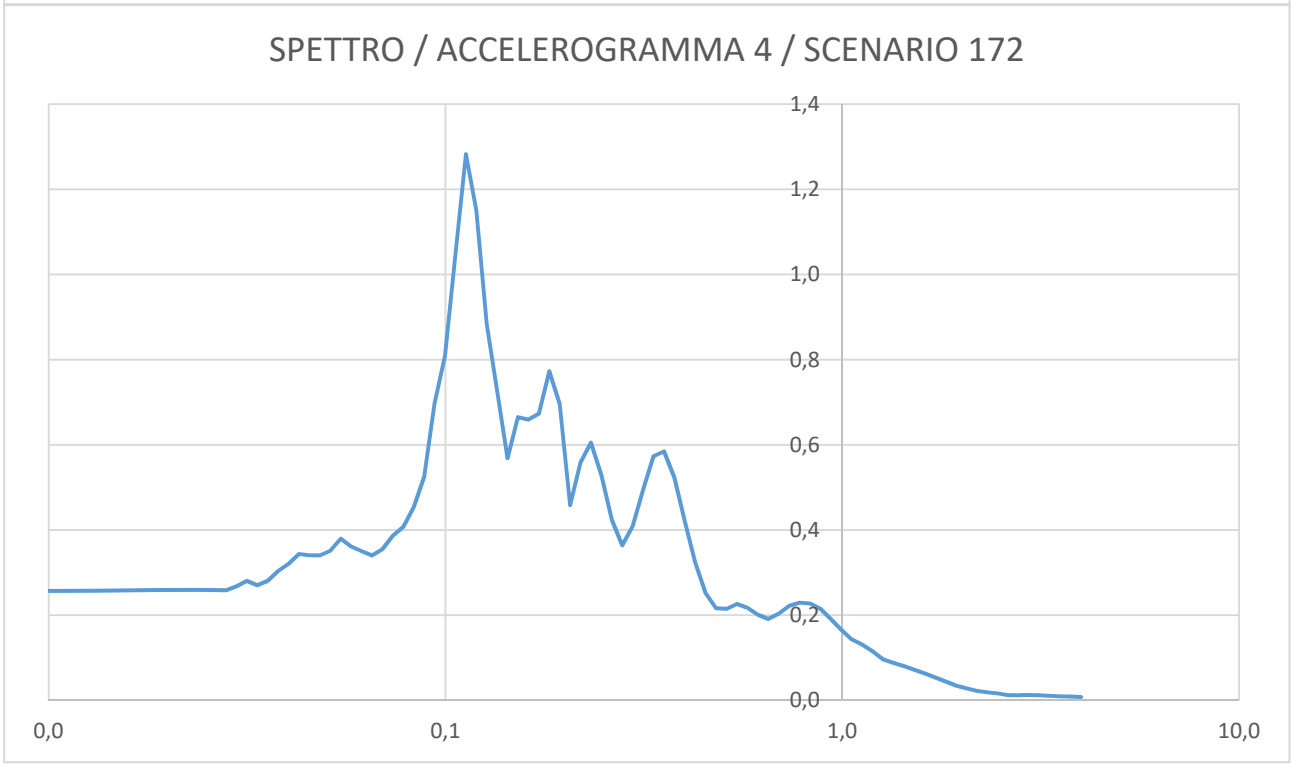
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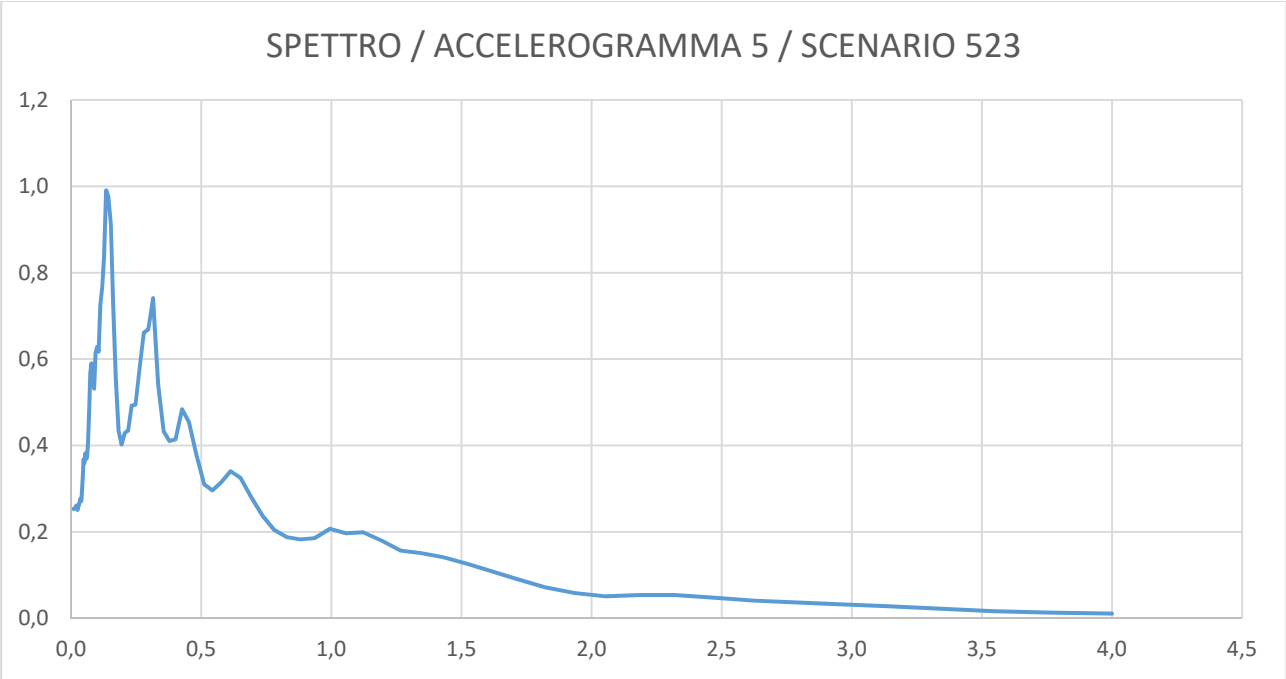
SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 523
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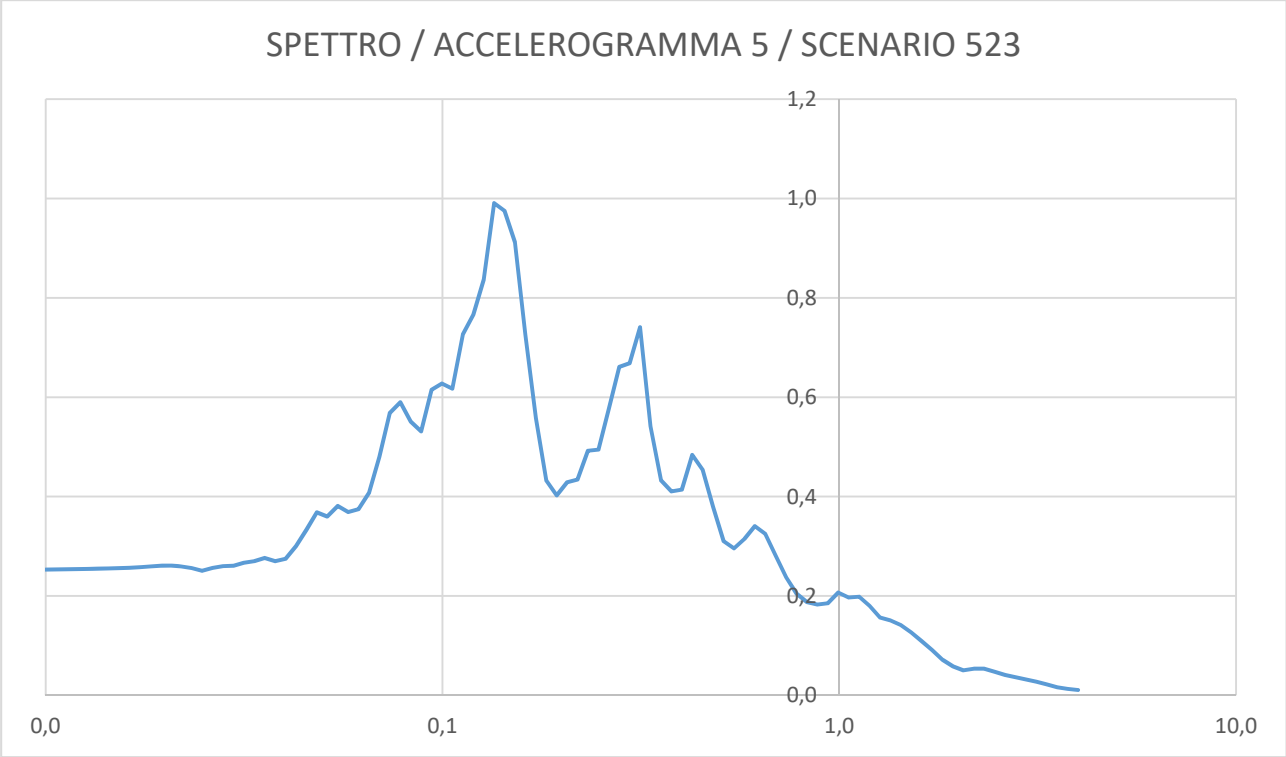
SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 523
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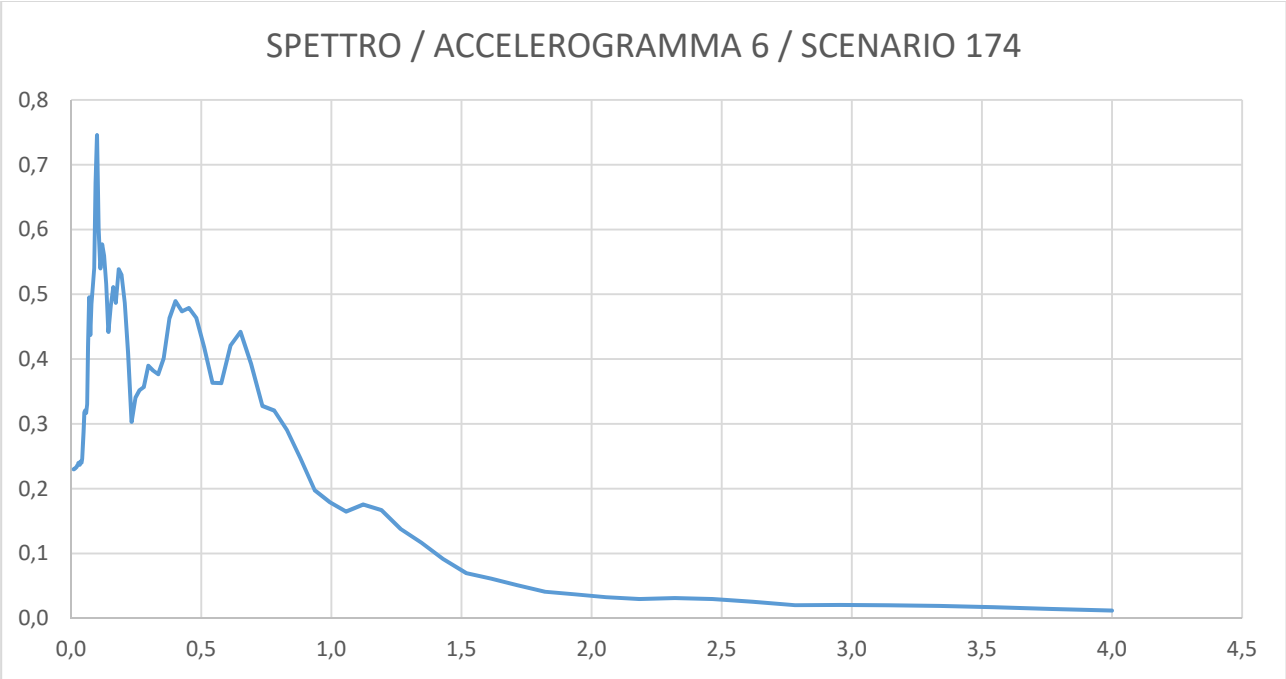
SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 174
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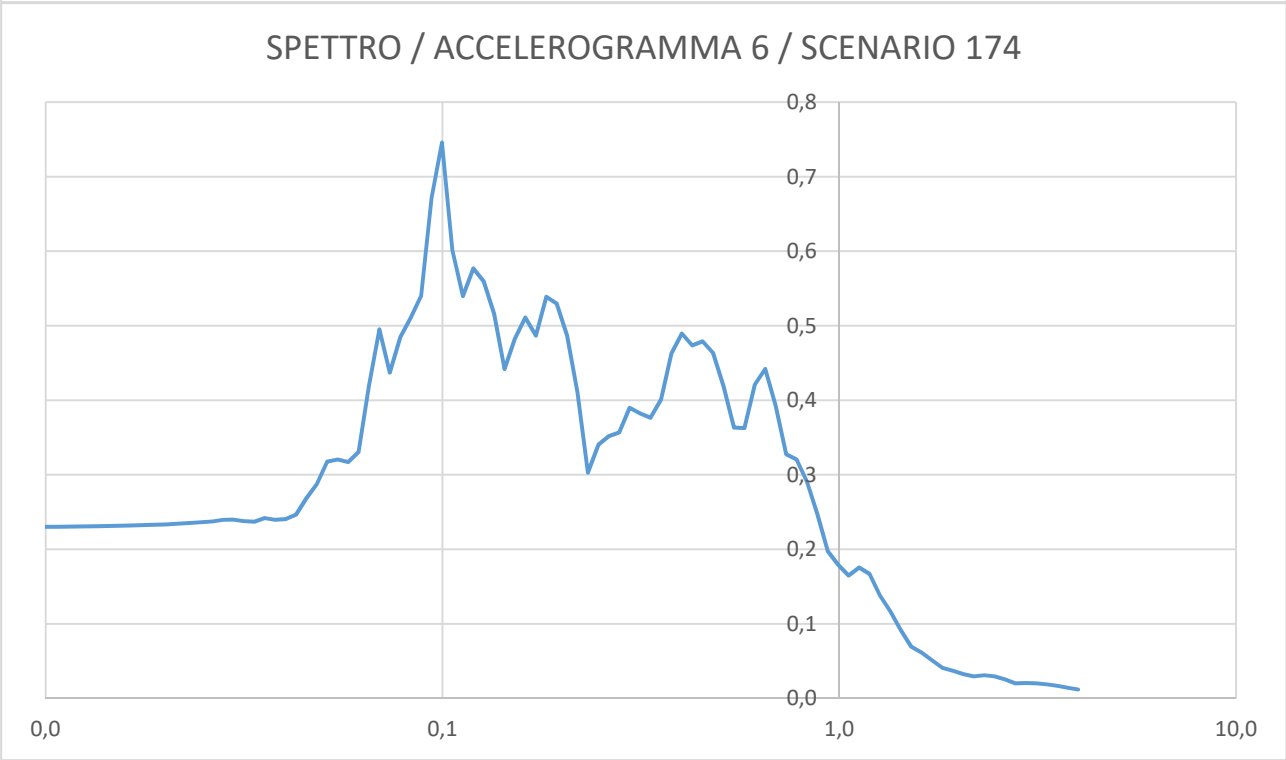
SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 174
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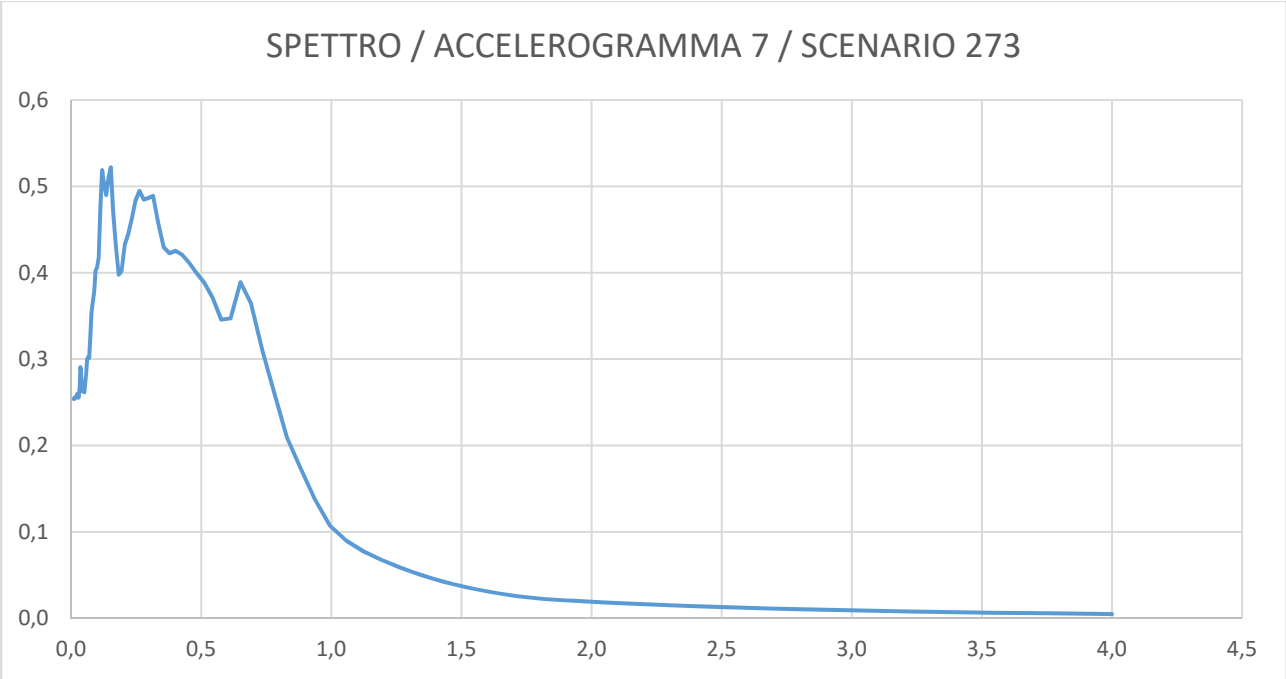
SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 273
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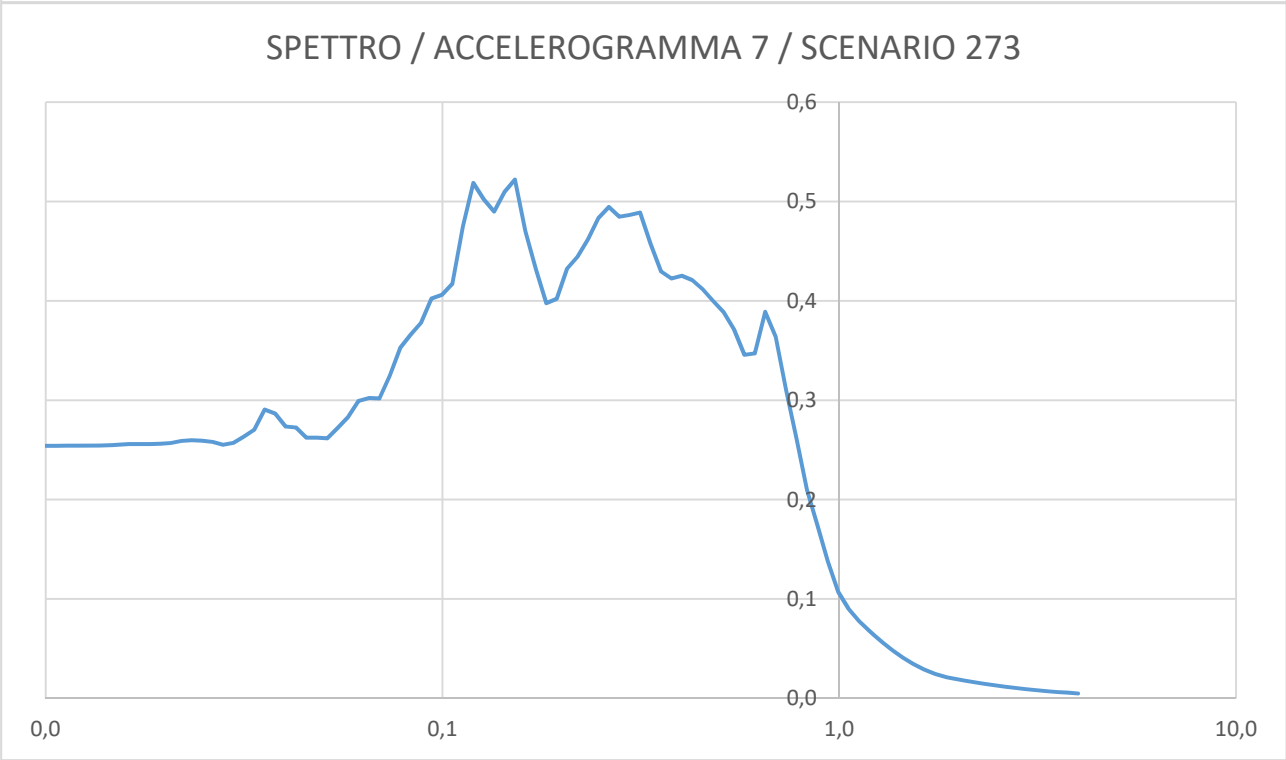
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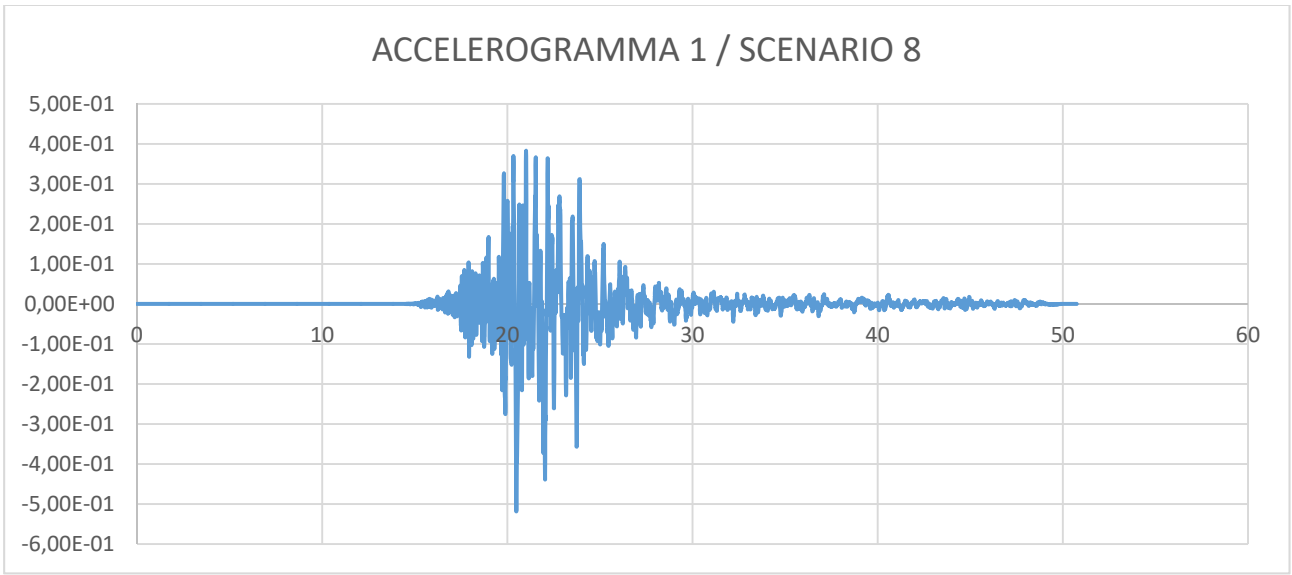
ACCELEROGRAMMA 1 / SCENARIO 8
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-1,00E-01
-2,00E-01
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-4,00E-01
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-6,00E-01
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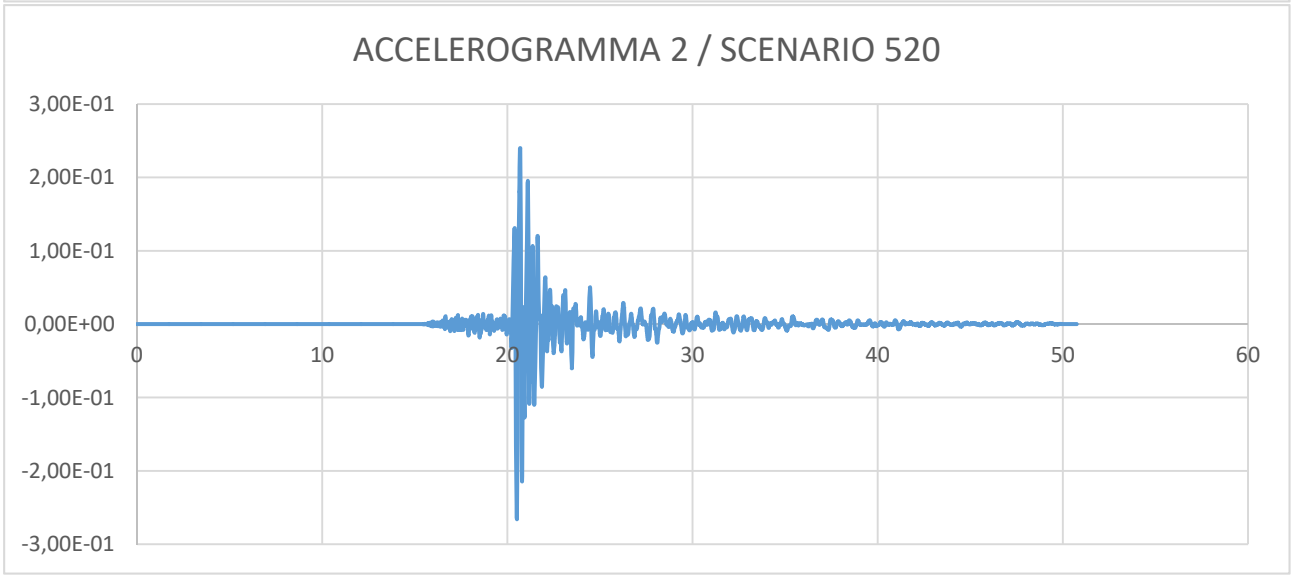
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-3,00E-01
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30
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50
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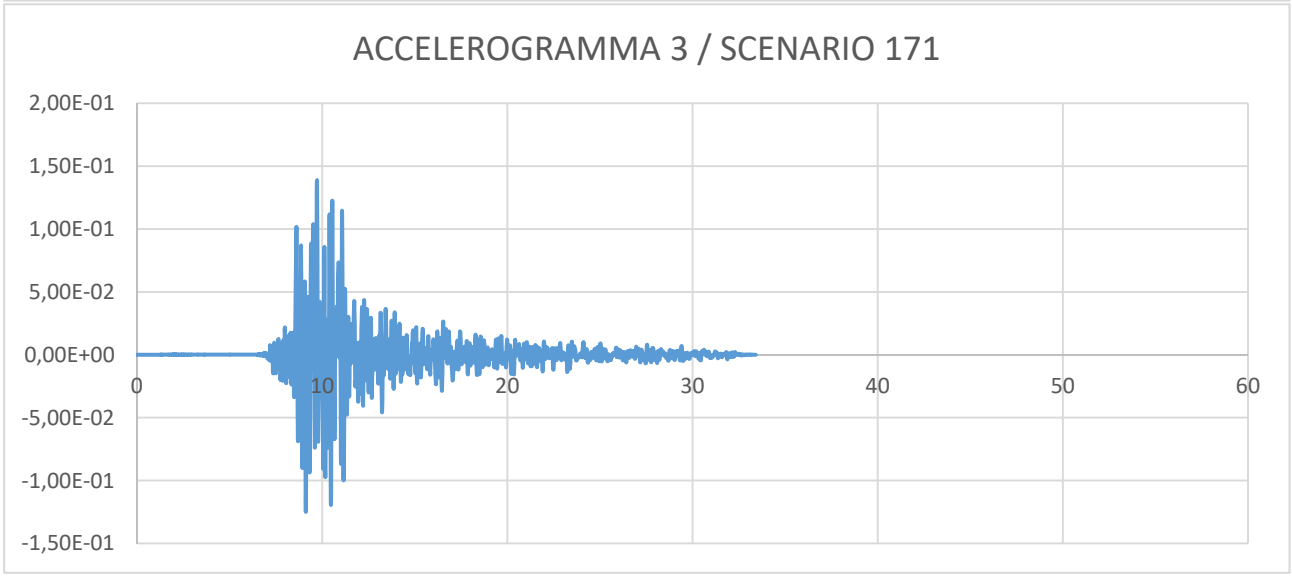
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0
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30
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50
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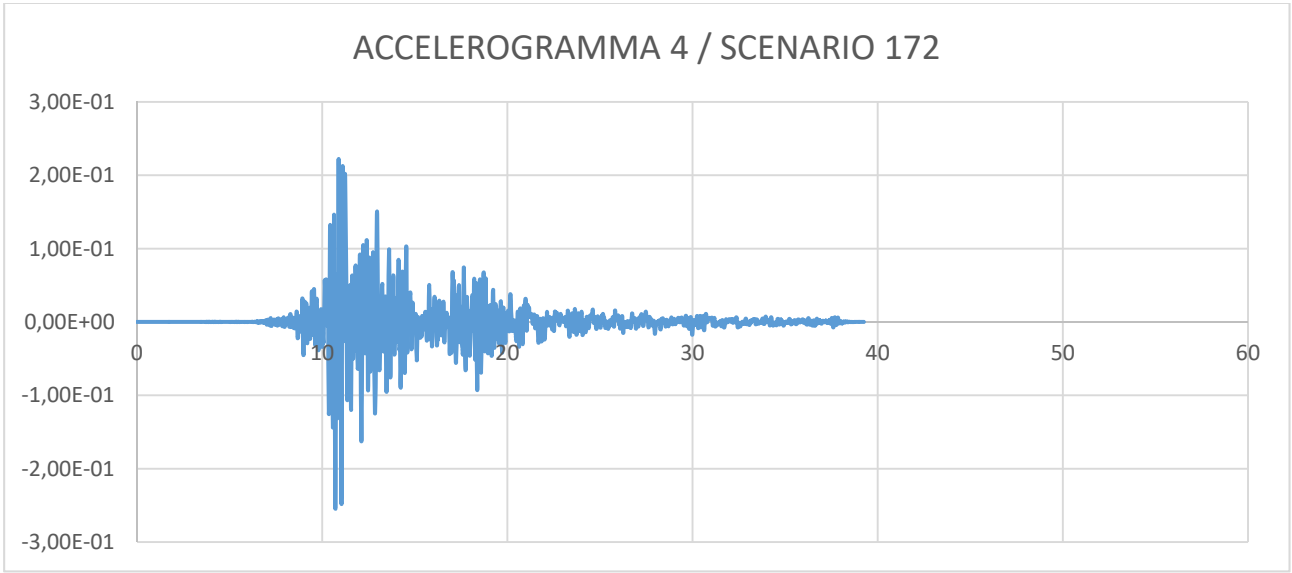
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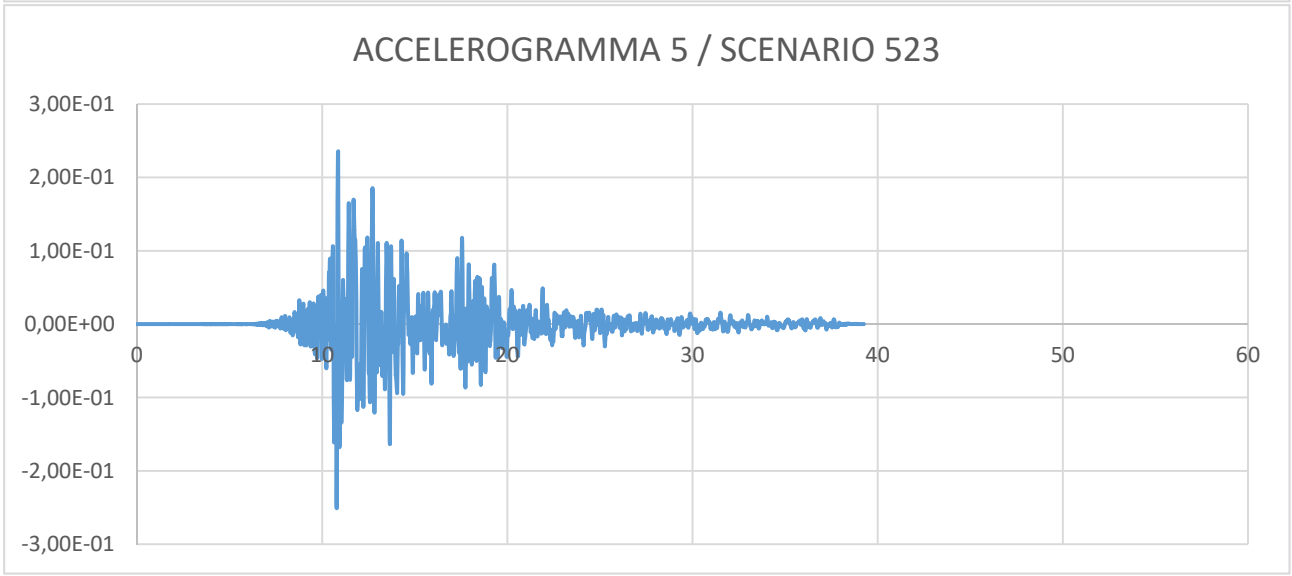
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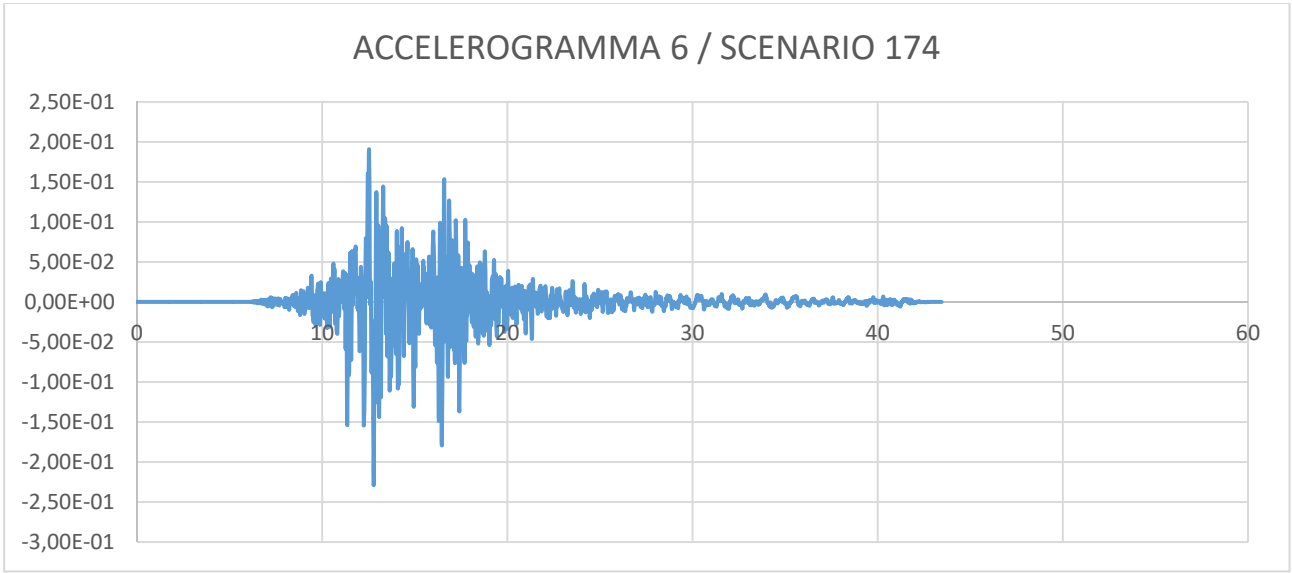
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-1,00E-01
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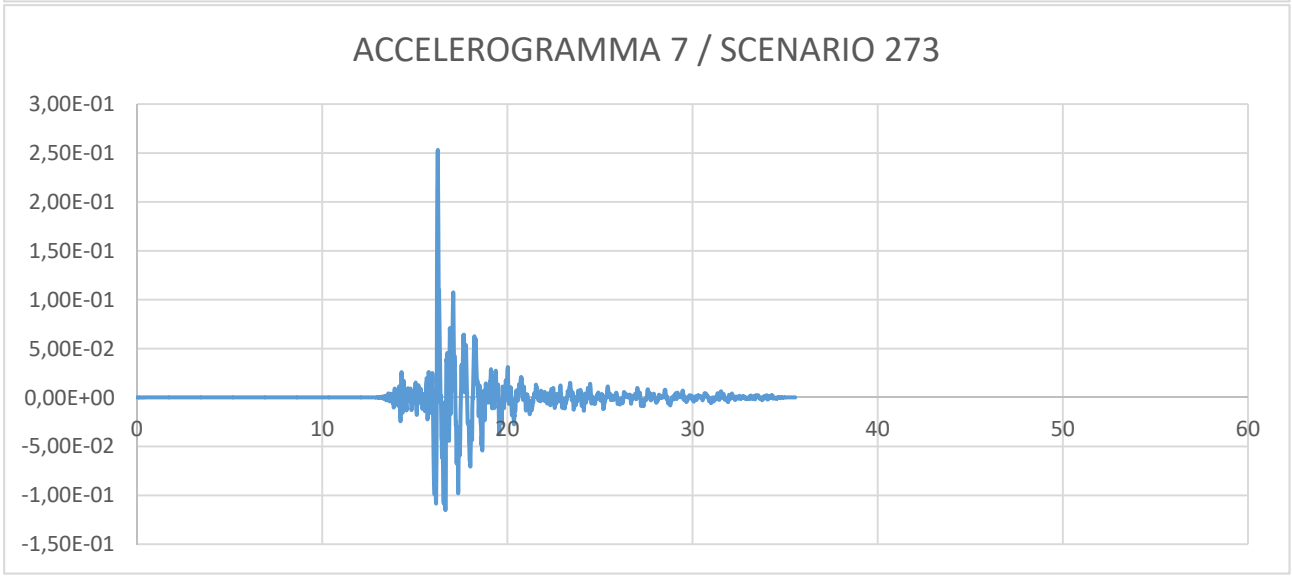
ACCELEROGRAMMA 7 / SCENARIO 273
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0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60

4. MOPS 2006

FA 0.1-0.5	FA 0.4-0.8	FA 0.7-1.1
1.37	1.21	1.13

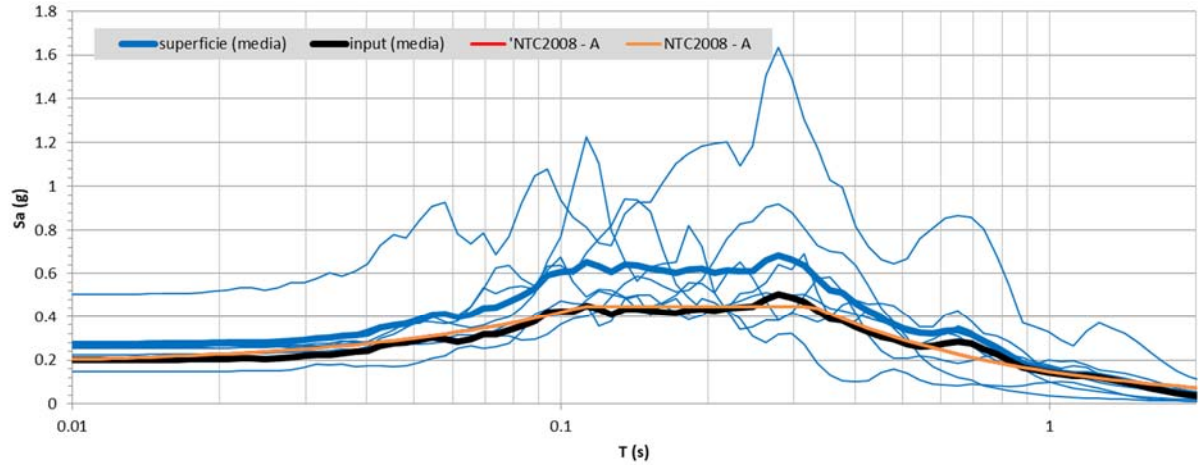
FA 0.1-0.5		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.34	1.37	1.39
FA 0.4-0.8		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.18	1.21	1.25
FA 0.7-1.1		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.09	1.13	1.17

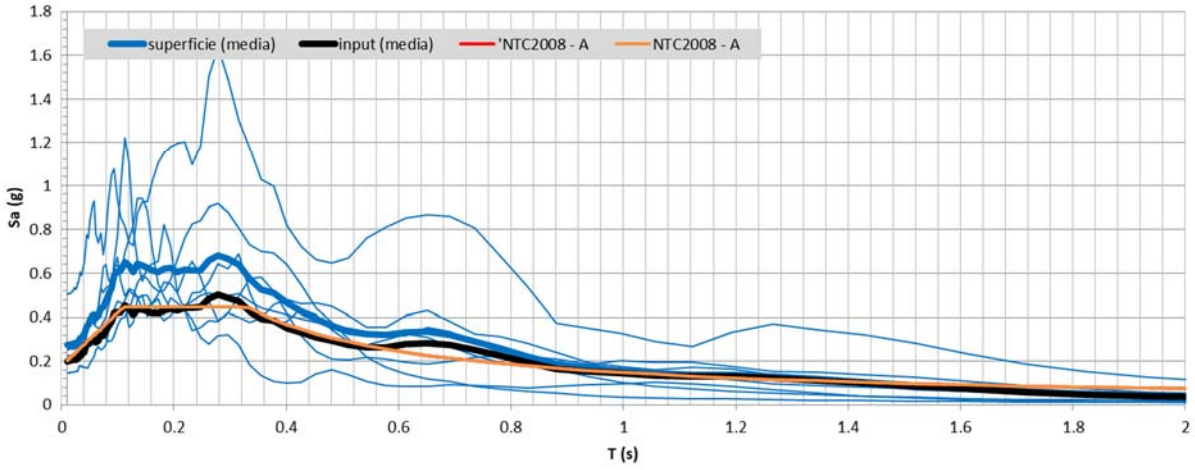
$$m_{ln} = \frac{1}{7}\sum_{i=1}^{7} \ln(FA_i)$$

$$FA_{rif} = e^{m_{ln}}$$

$$s_{ln} = \sqrt{\frac{1}{6}\sum_{i=1}^{7} [\ln(FA_i) - m_{ln}]^2}$$

$$e^{m_{ln}-s_{ln}} \quad e^{m_{ln}+s_{ln}}$$





TEMPI	ACCELEROGRAMMA 1 SCENARIO 498	ACCELEROGRAMMA 2 SCENARIO 499	ACCELEROGRAMMA 3 SCENARIO 73	ACCELEROGRAMMA 4 SCENARIO 74	ACCELEROGRAMMA 5 SCENARIO 320	ACCELEROGRAMMA 6 SCENARIO 76	ACCELEROGRAMMA 7 SCENARIO 392
0.01000	0.51250884	0.25683185	0.14990850	0.25581783	0.25221960	0.21555141	0.25263336
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0.01129	0.51356842	0.25694960	0.15001448	0.25616034	0.25299826	0.21579804	0.25282706
0.01199	0.51421414	0.25702039	0.15007312	0.25632385	0.25342962	0.21594774	0.25296634
0.01274	0.51496424	0.25710052	0.15018427	0.25658320	0.25391539	0.21611880	0.25290757
0.01353	0.51541126	0.25719119	0.15028559	0.25688481	0.25450297	0.21632401	0.25302088
0.01438	0.51483372	0.25729372	0.15043051	0.25721302	0.25523035	0.21655346	0.25280508
0.01528	0.51561152	0.25740634	0.15083593	0.25758709	0.25591854	0.21681964	0.25318084
0.01623	0.51654845	0.25741957	0.15128430	0.25804561	0.25686513	0.21712513	0.25404979
0.01724	0.52026521	0.25757846	0.15155061	0.25859621	0.25892558	0.21749666	0.25431635
0.01832	0.51612917	0.25774586	0.15111890	0.25887212	0.26152273	0.21792029	0.25420103
0.01946	0.52019666	0.25796061	0.15113054	0.25924315	0.26310303	0.21833416	0.25433488
0.02067	0.52732695	0.25829885	0.14996379	0.25976286	0.26440571	0.21875959	0.25455861
0.02196	0.54149265	0.25857442	0.15189343	0.26043147	0.26283521	0.21972518	0.25702907
0.02333	0.55088370	0.25874610	0.15598588	0.26040318	0.25878619	0.22060824	0.25867256
0.02479	0.54135819	0.25886154	0.15666672	0.25967510	0.25986017	0.22055752	0.25902095
0.02634	0.54873498	0.25956065	0.15397280	0.26068508	0.25791258	0.22189111	0.25890983
0.02798	0.55863682	0.26038258	0.15059600	0.26036367	0.25986528	0.22453513	0.25549350
0.02972	0.51809914	0.26031782	0.16188252	0.25901131	0.26236296	0.22830664	0.25230661
0.03158	0.54597417	0.26124574	0.17453352	0.27440177	0.27230153	0.23362357	0.25423492
0.03355	0.59550991	0.26591616	0.16945651	0.27150092	0.27634373	0.23710499	0.26483679
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0.04274	0.75266059	0.27901256	0.17910721	0.35315573	0.29550599	0.27931917	0.28081289
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0.05125	0.76250623	0.26603590	0.17029924	0.35915143	0.36314926	0.35096605	0.27561133
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0.08316	0.89933710	0.29593124	0.29376234	0.40965801	0.59091656	0.51651679	0.37312227
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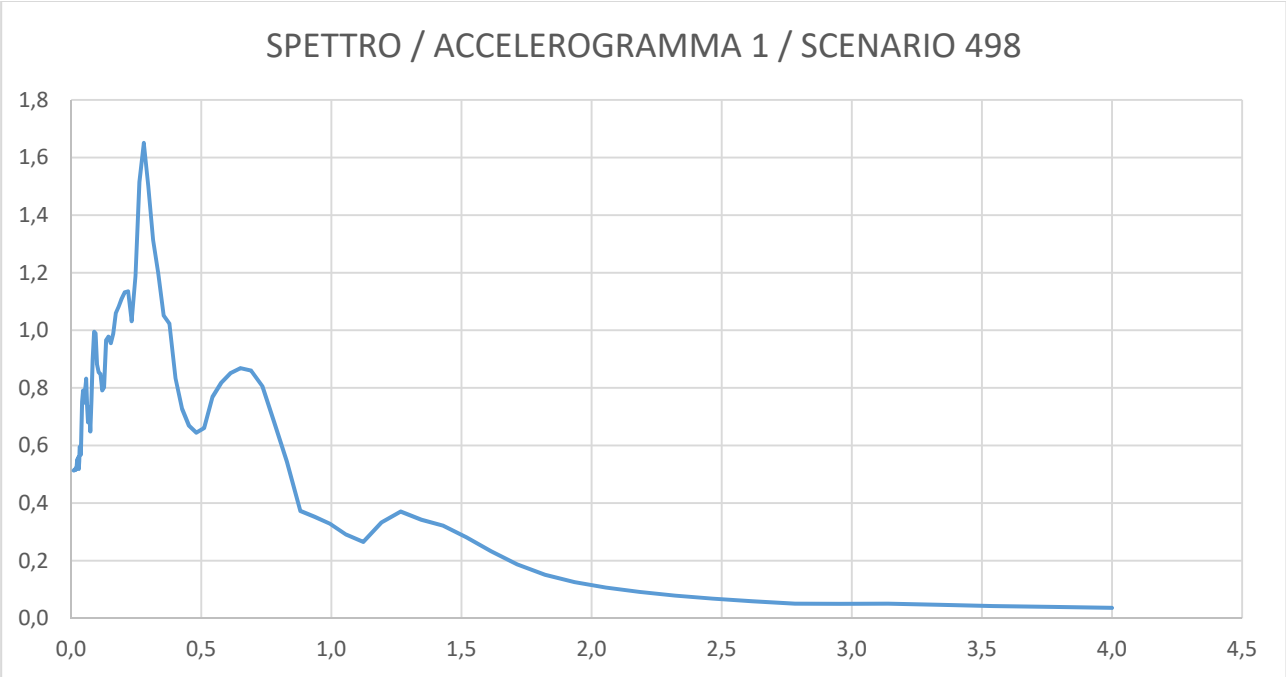
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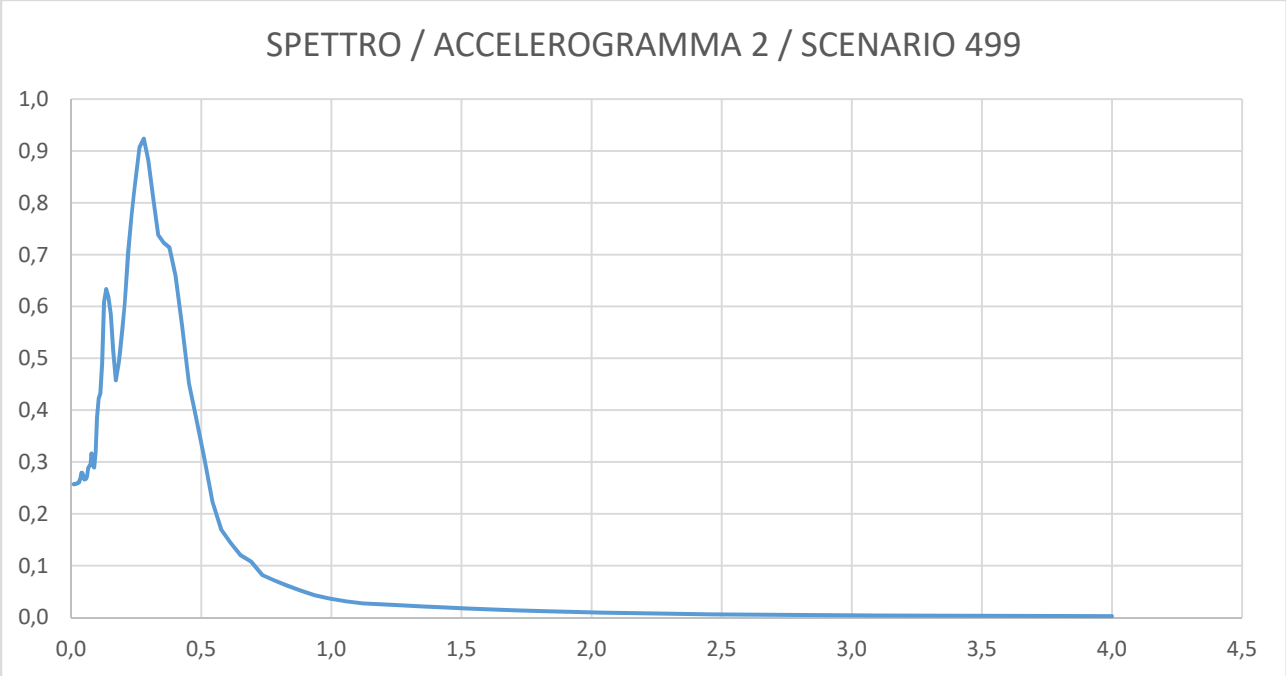
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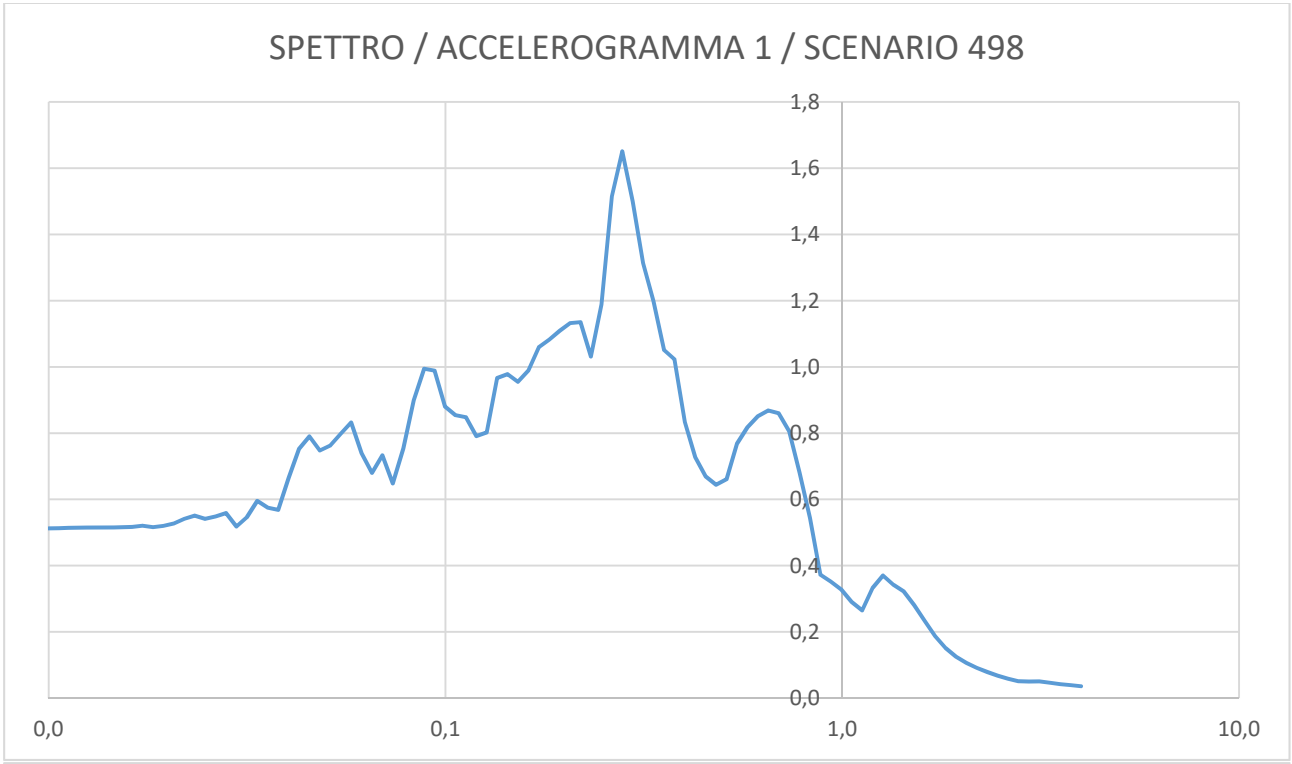
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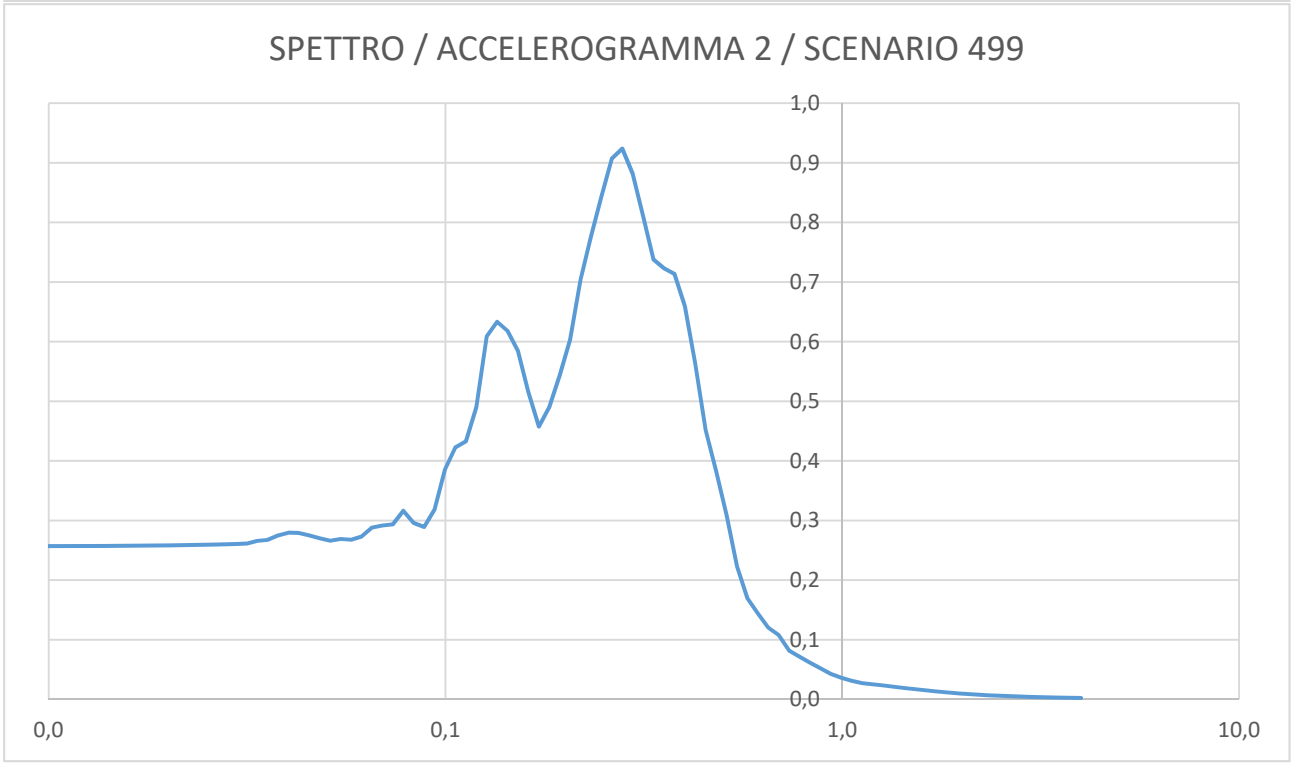
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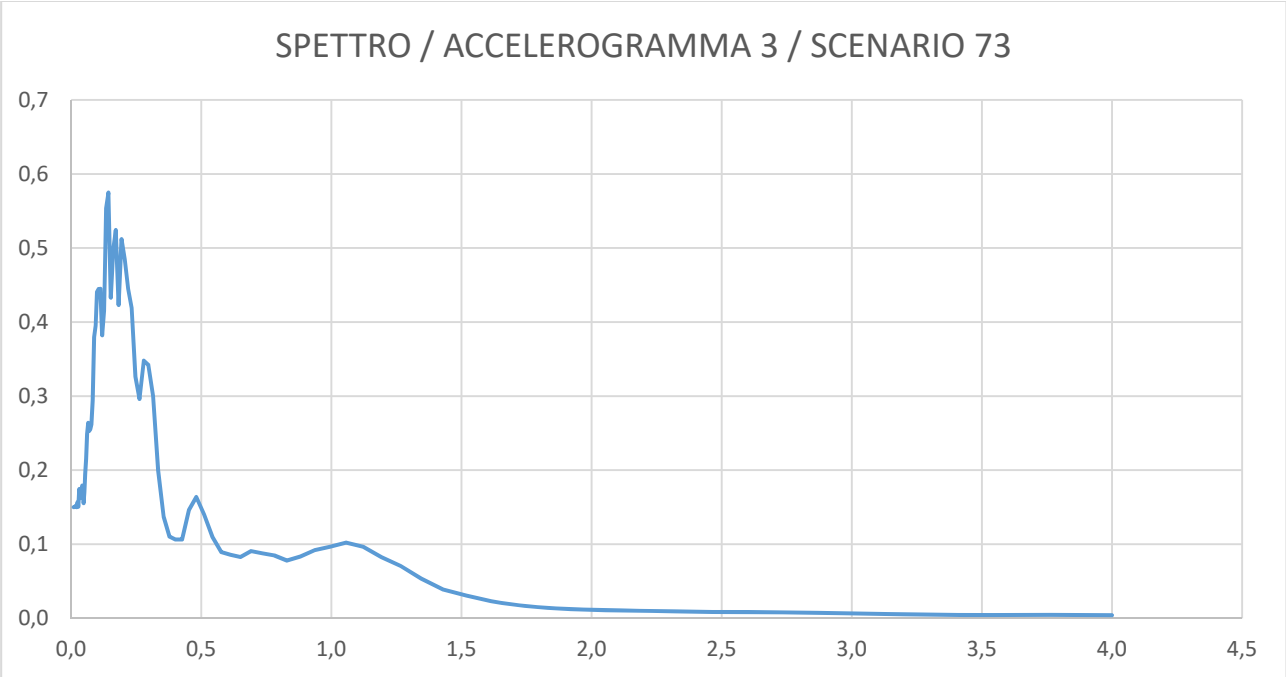
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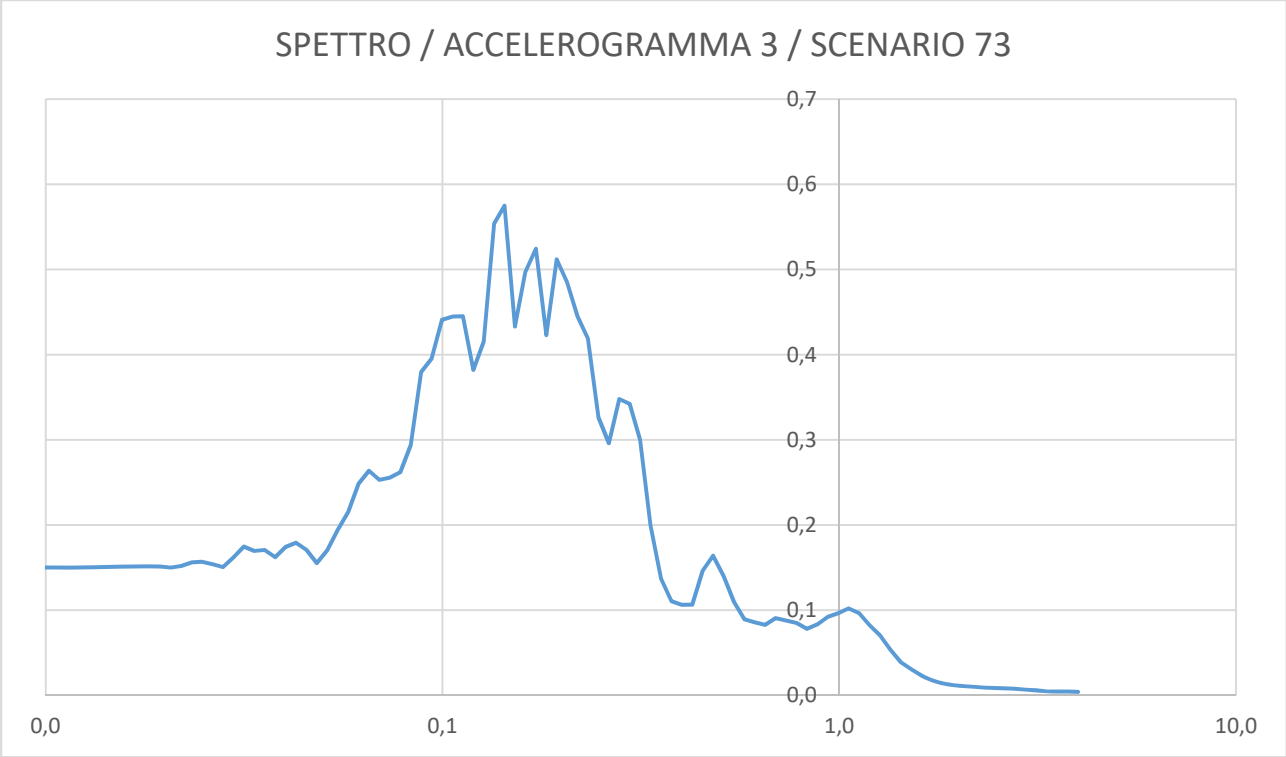
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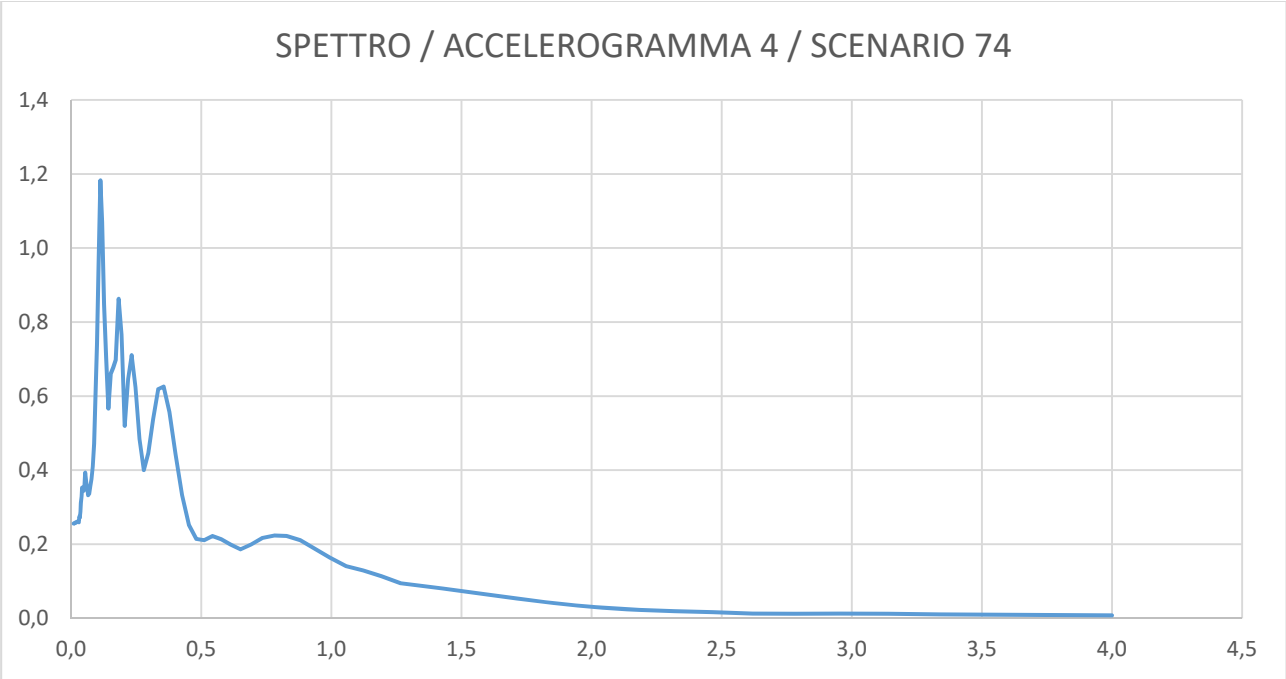
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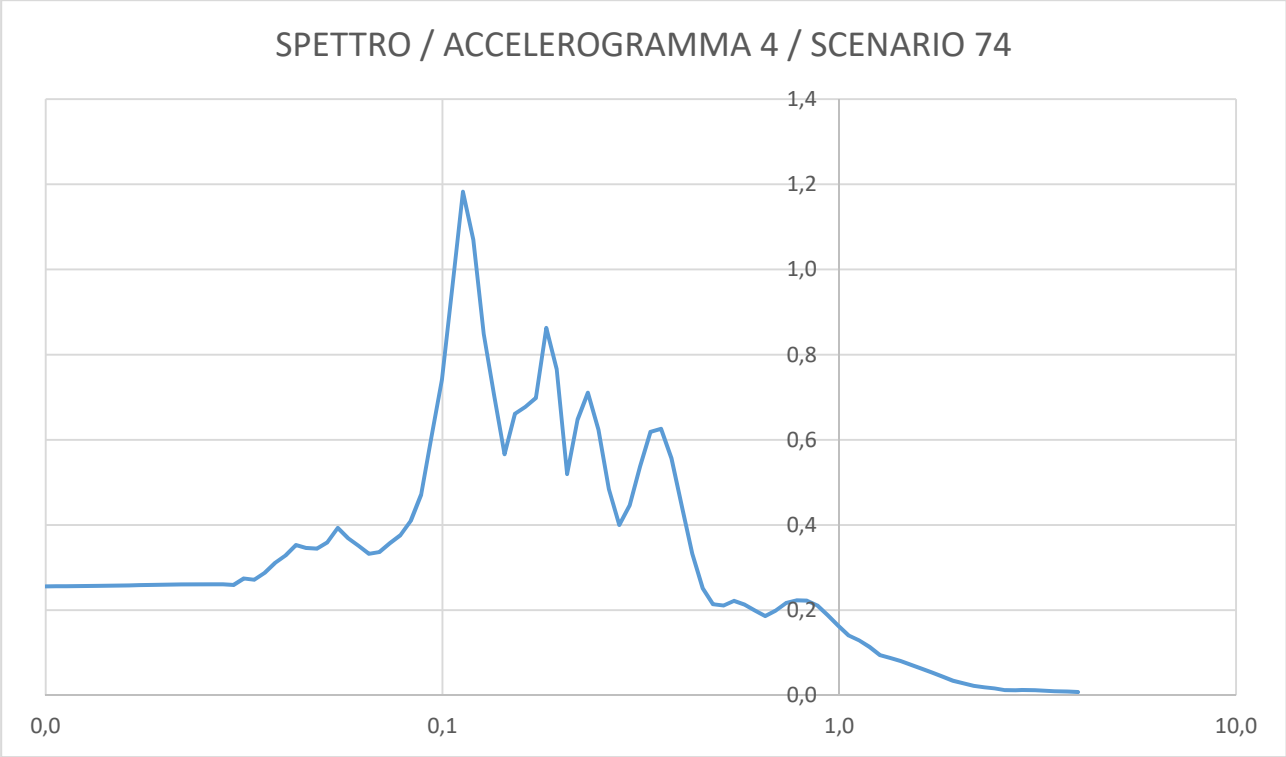
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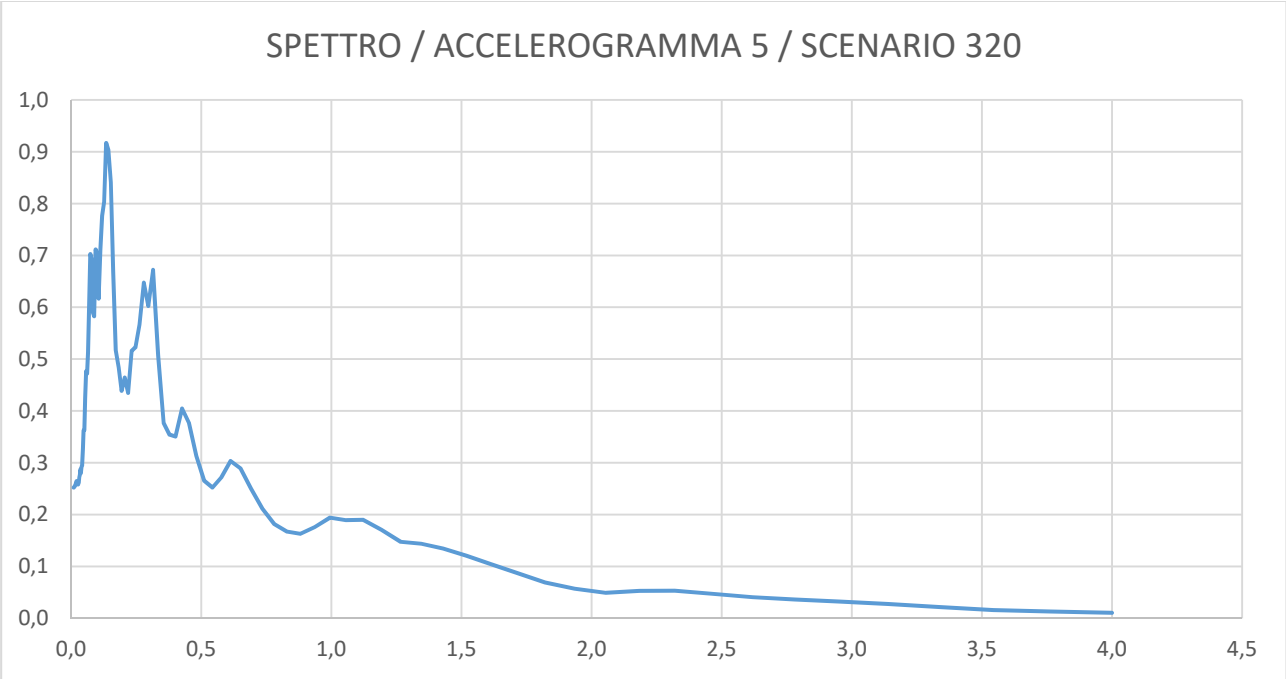
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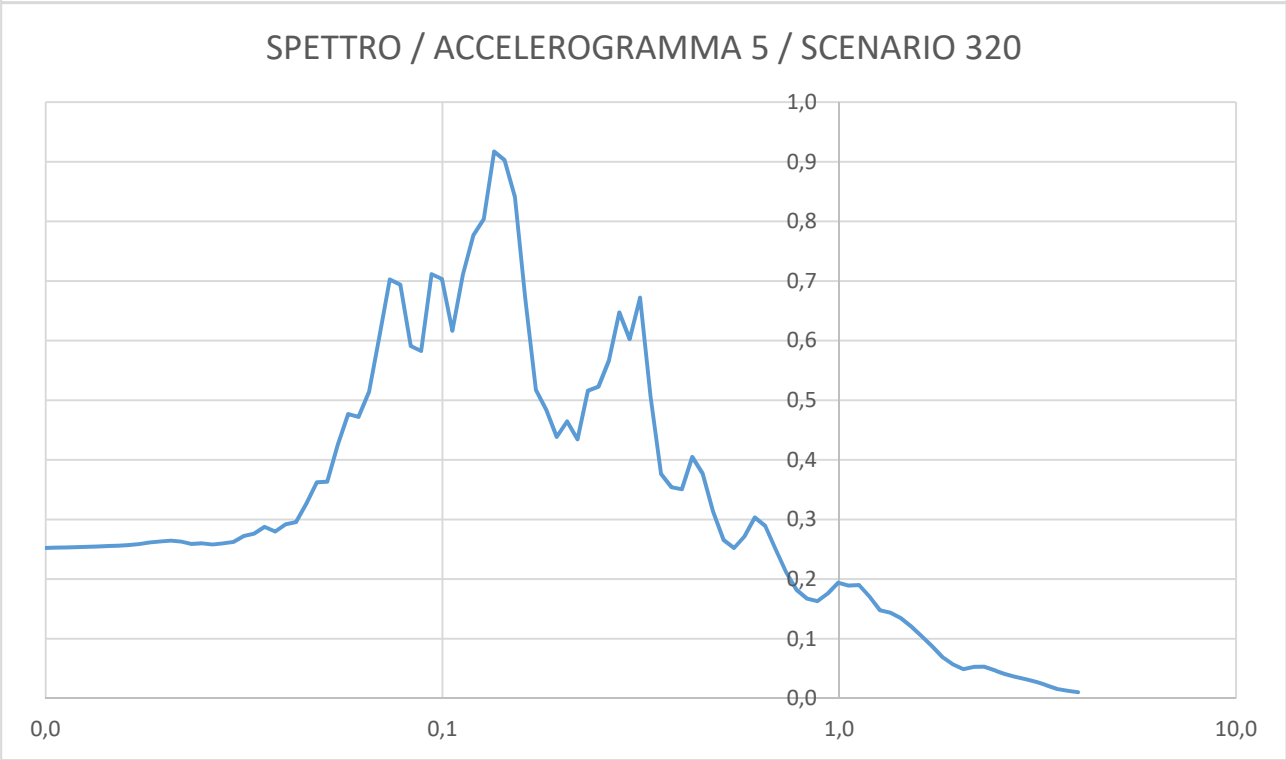
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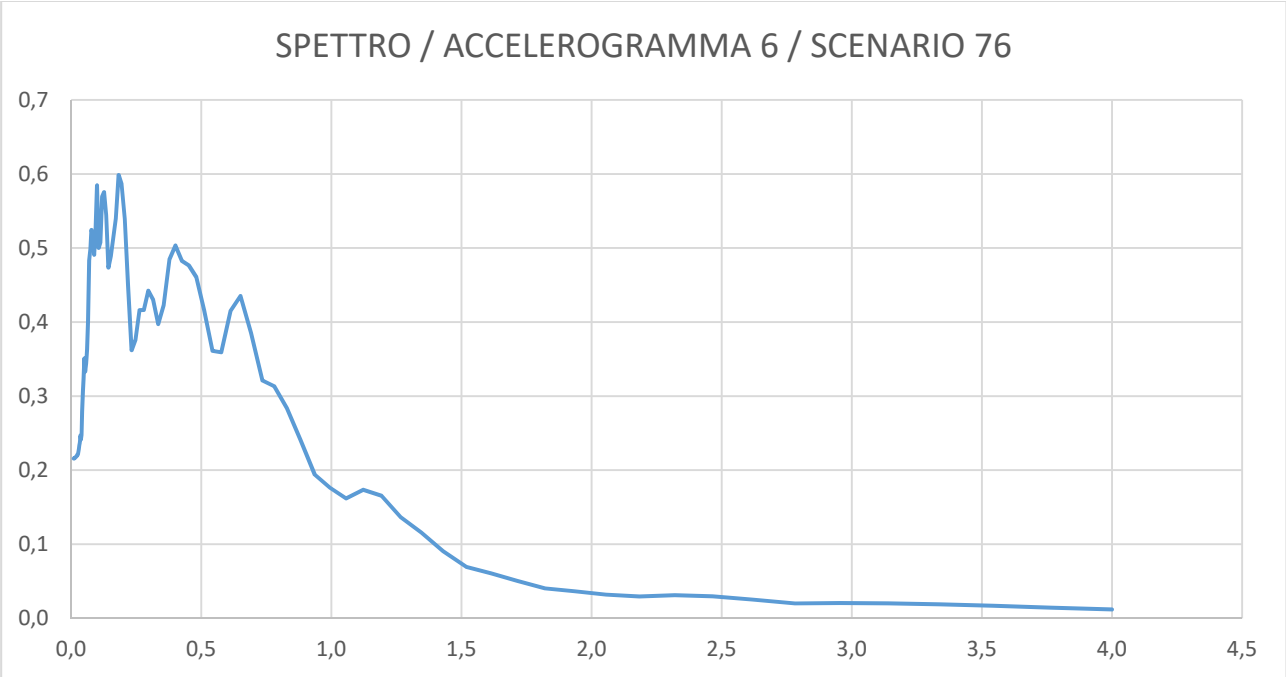
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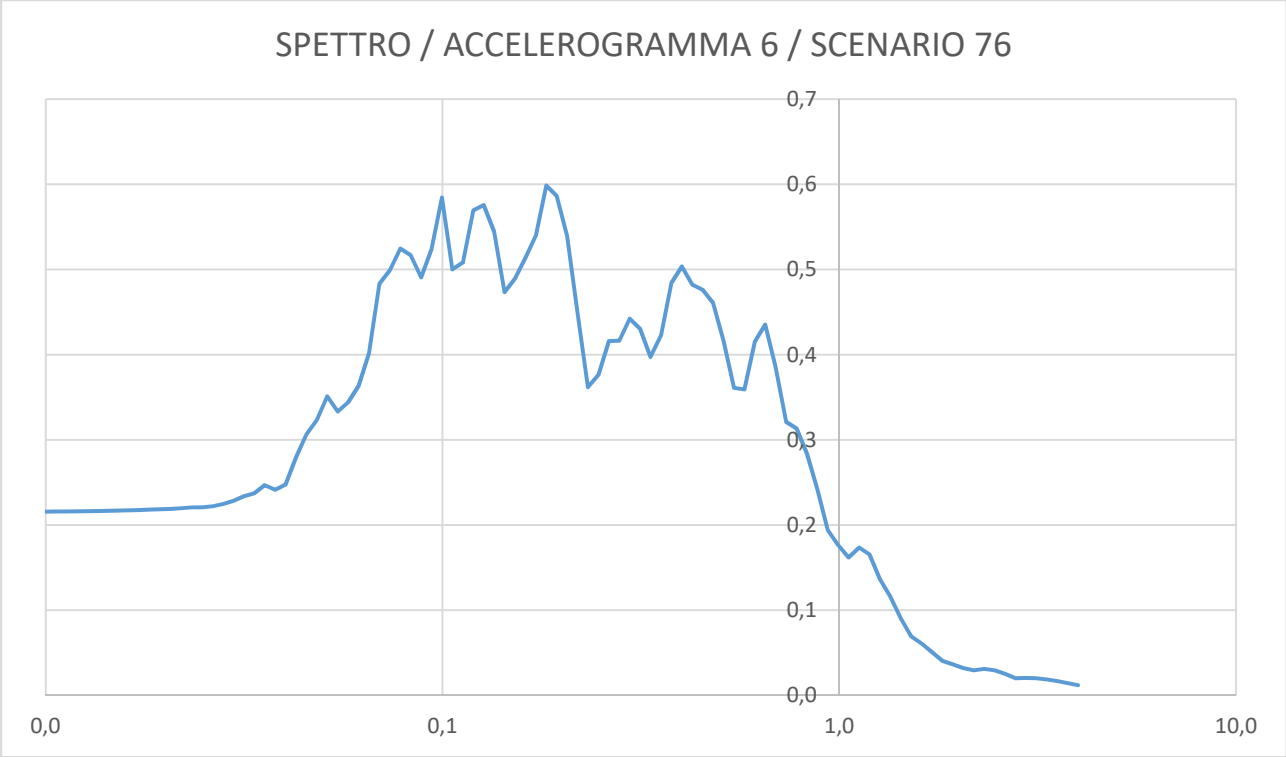
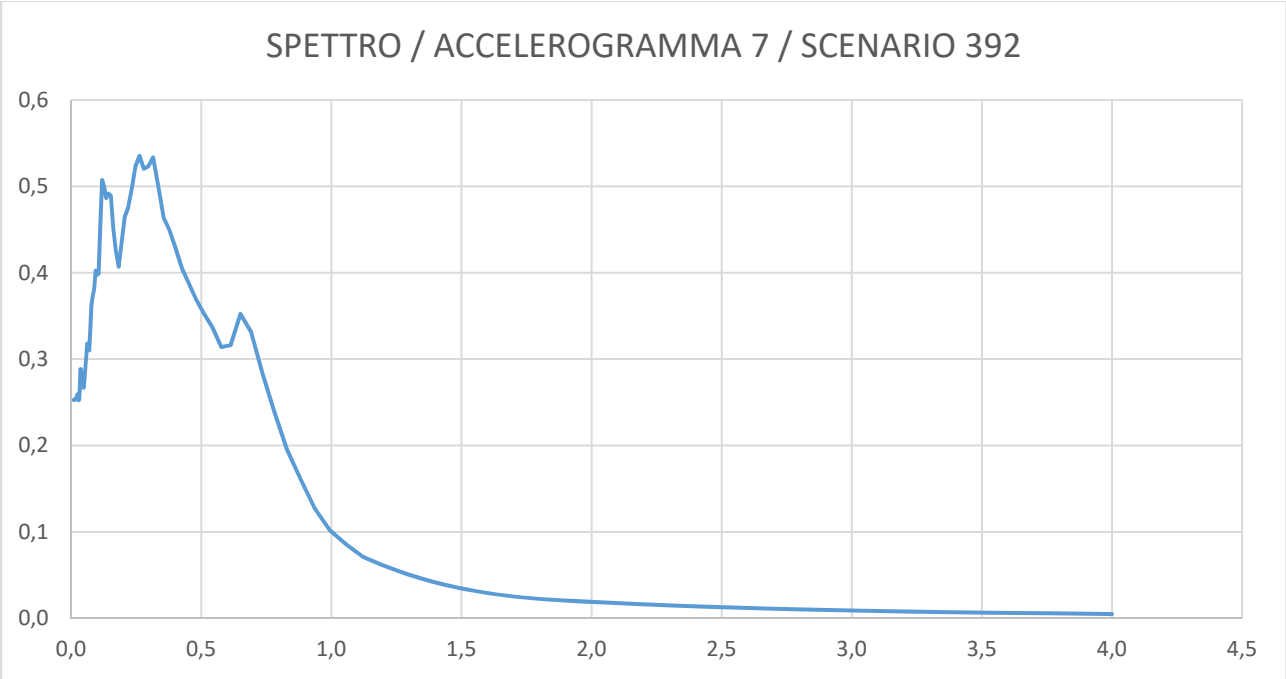
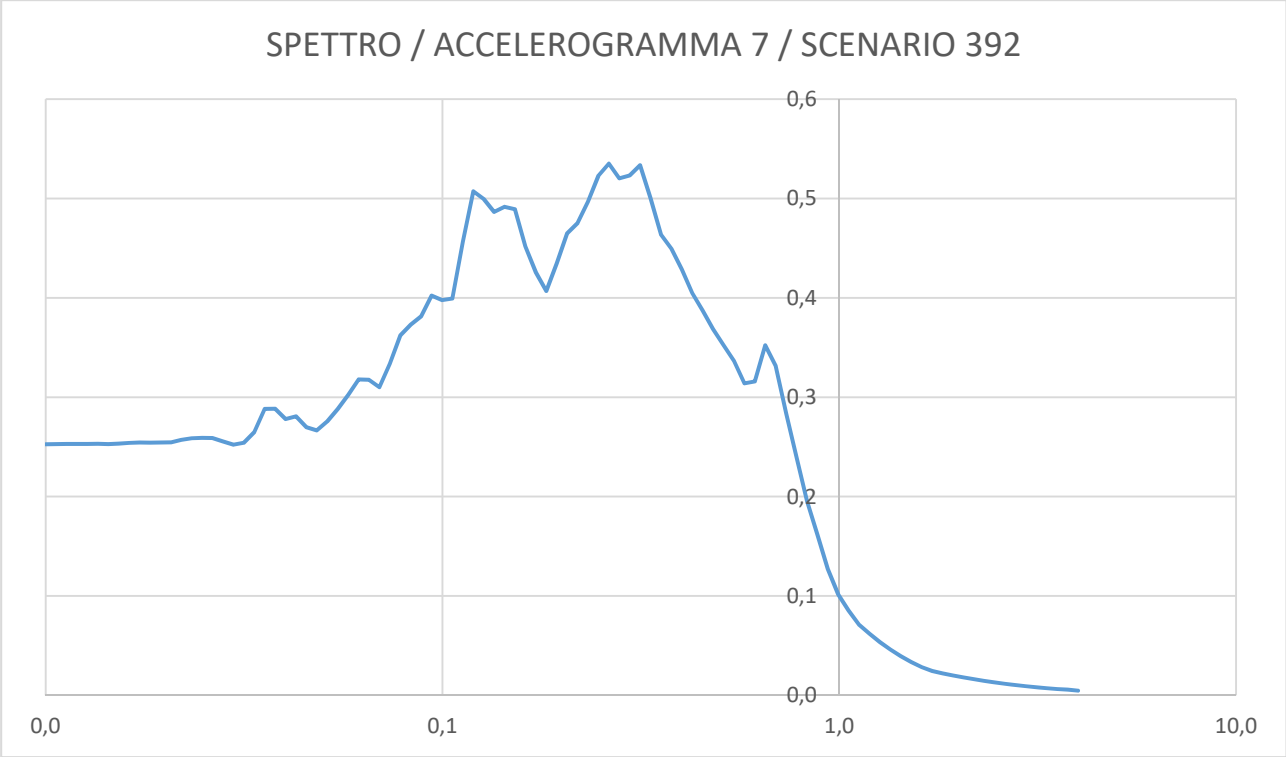
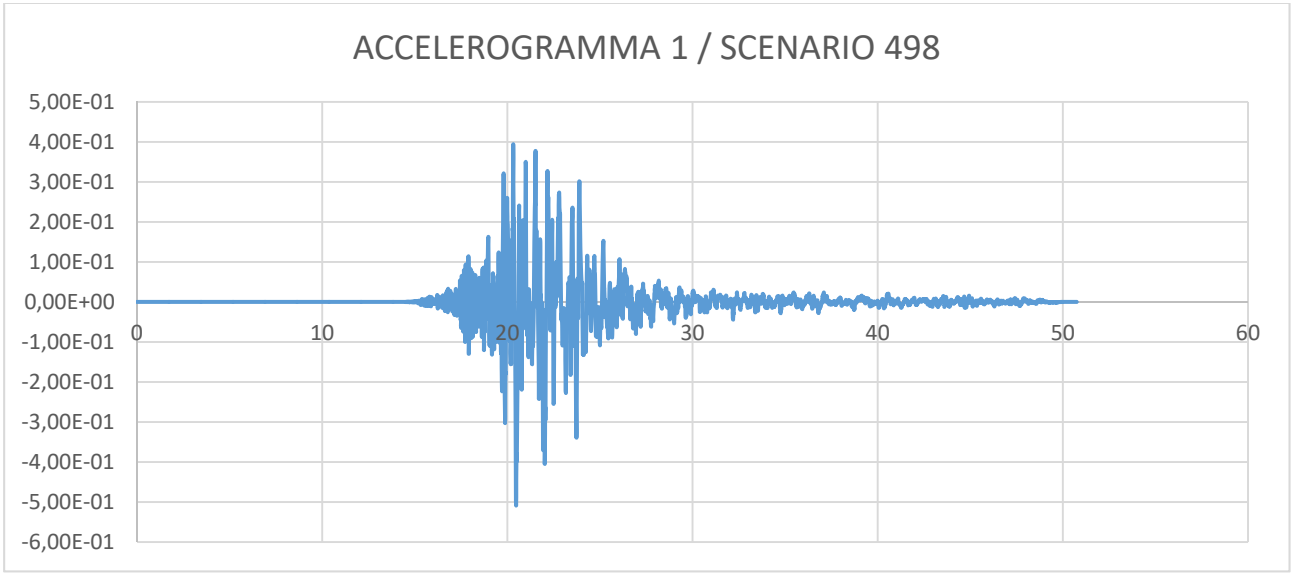
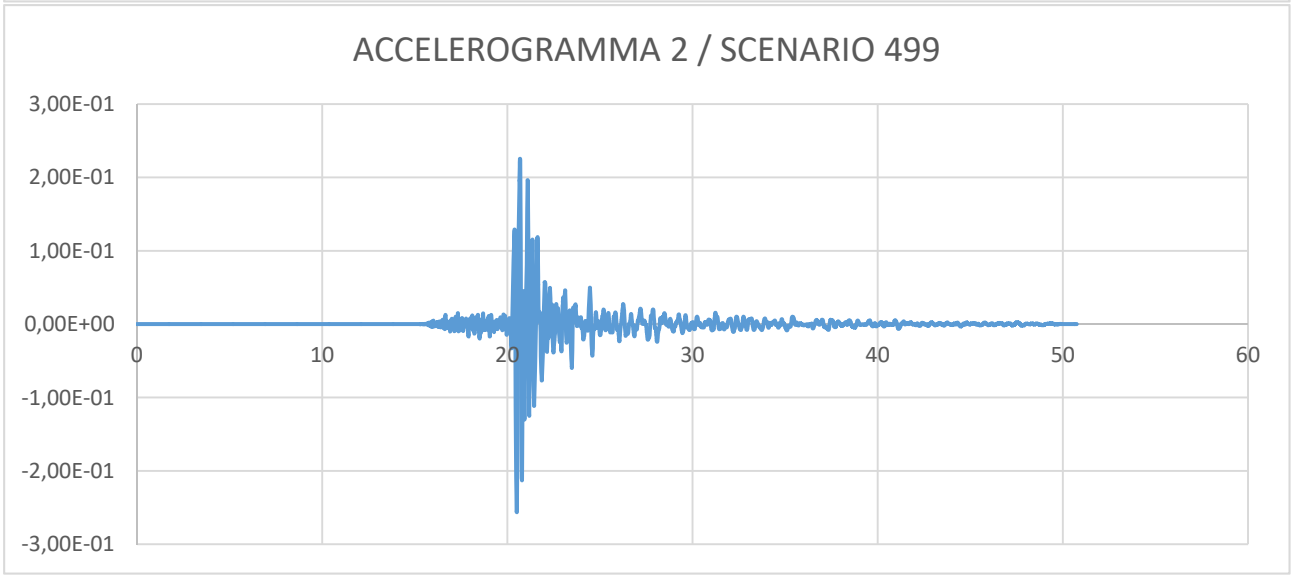
4,5

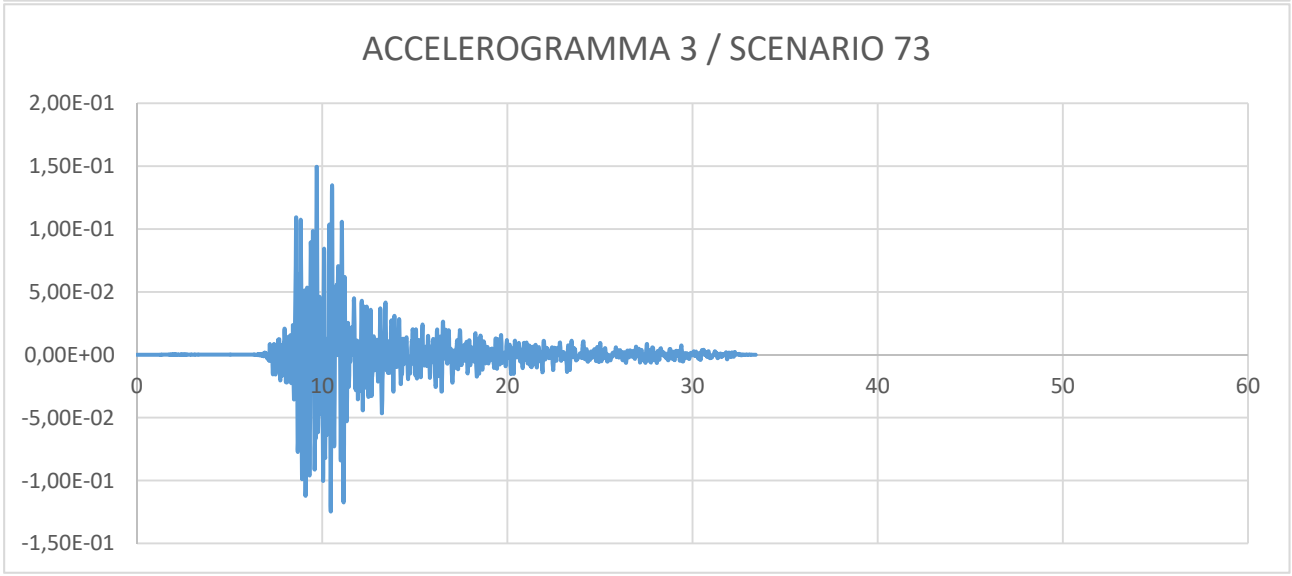

SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 76
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0

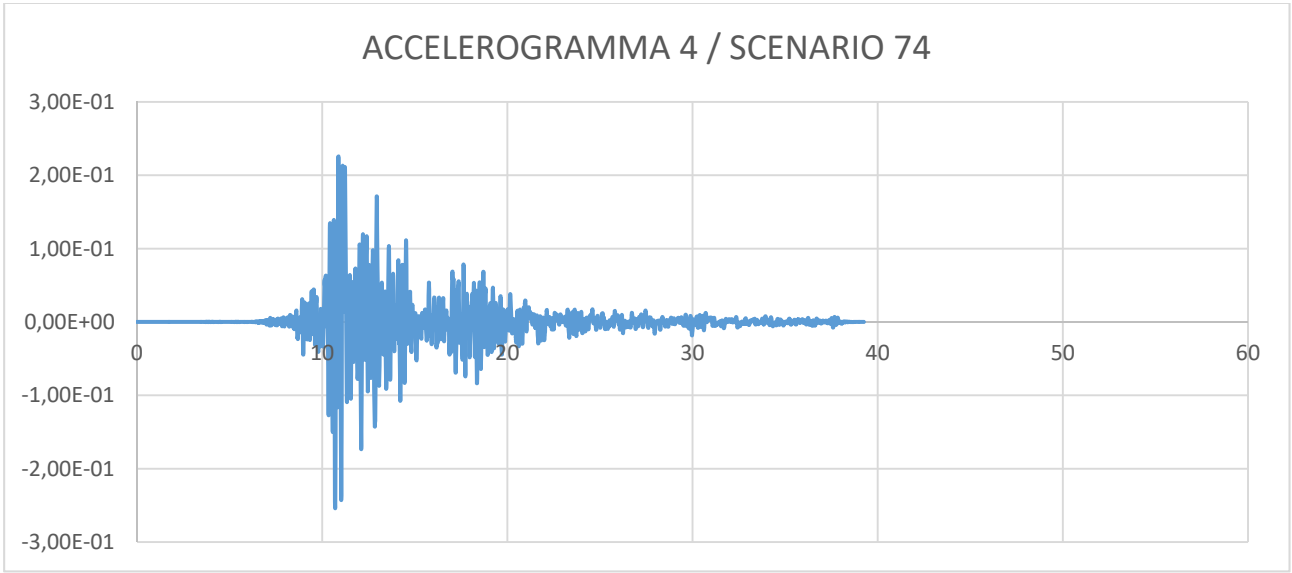

SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 392
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5

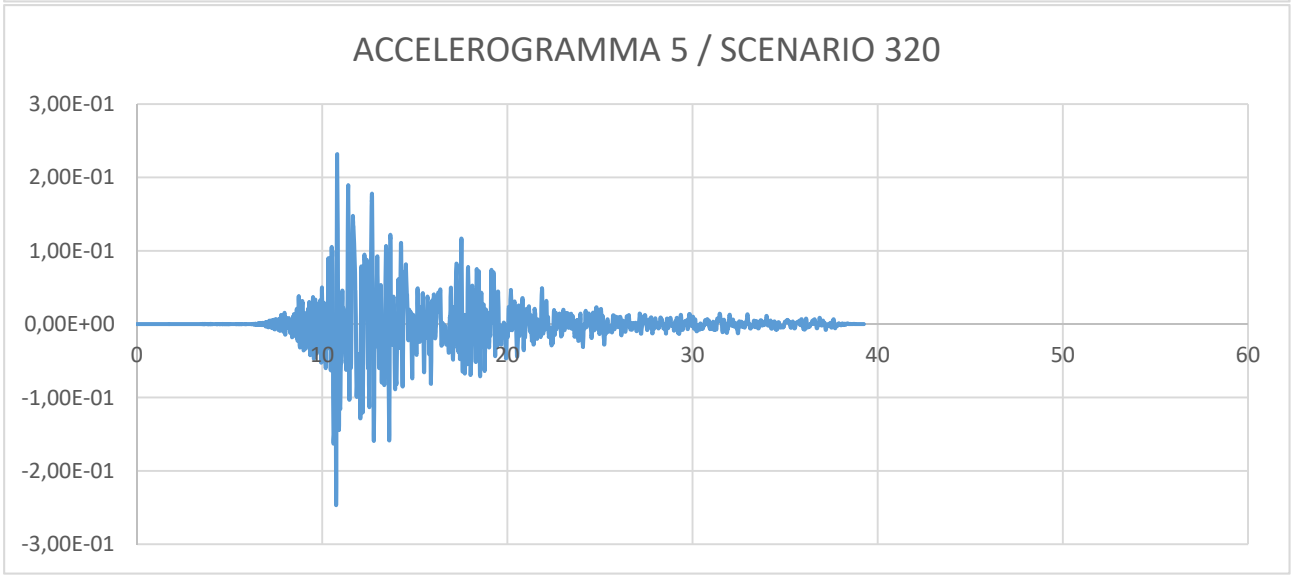

SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 392
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0

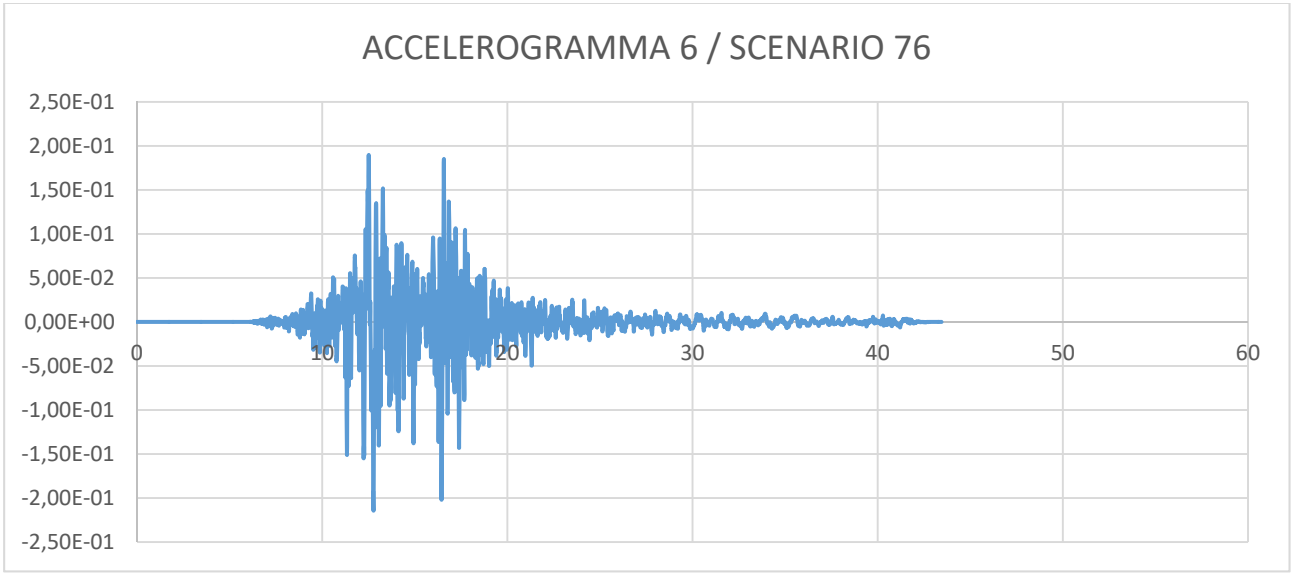

ACCELEROGRAMMA 1 / SCENARIO 498
5,00E-01
4,00E-01
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
-4,00E-01
-5,00E-01
-6,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 2 / SCENARIO 499
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 3 / SCENARIO 73
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 4 / SCENARIO 74
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 5 / SCENARIO 320
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 6 / SCENARIO 76
2,50E-01
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
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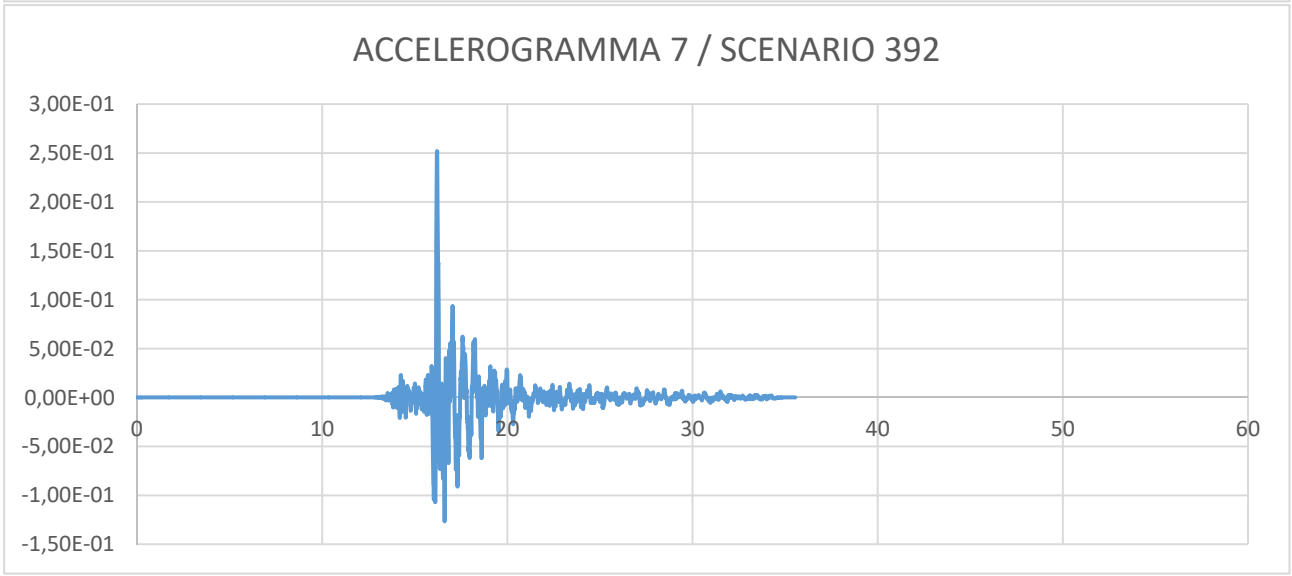
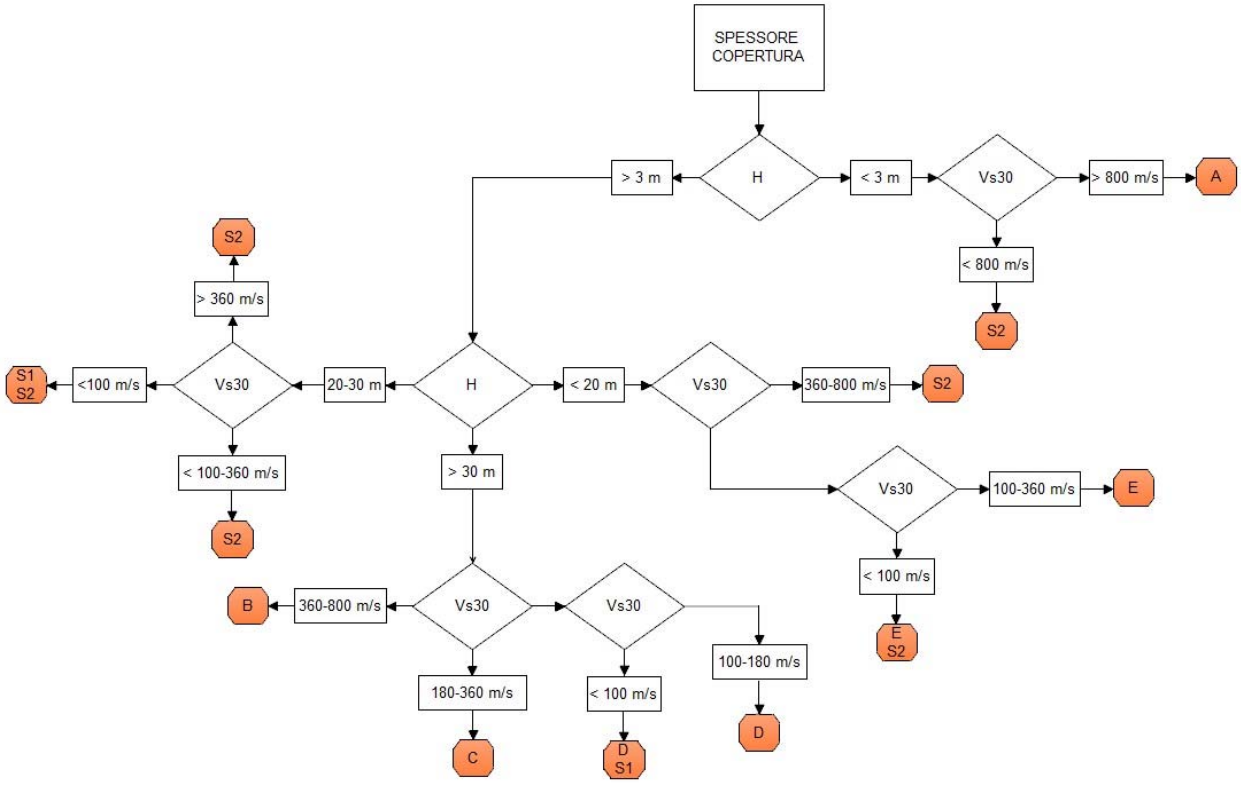
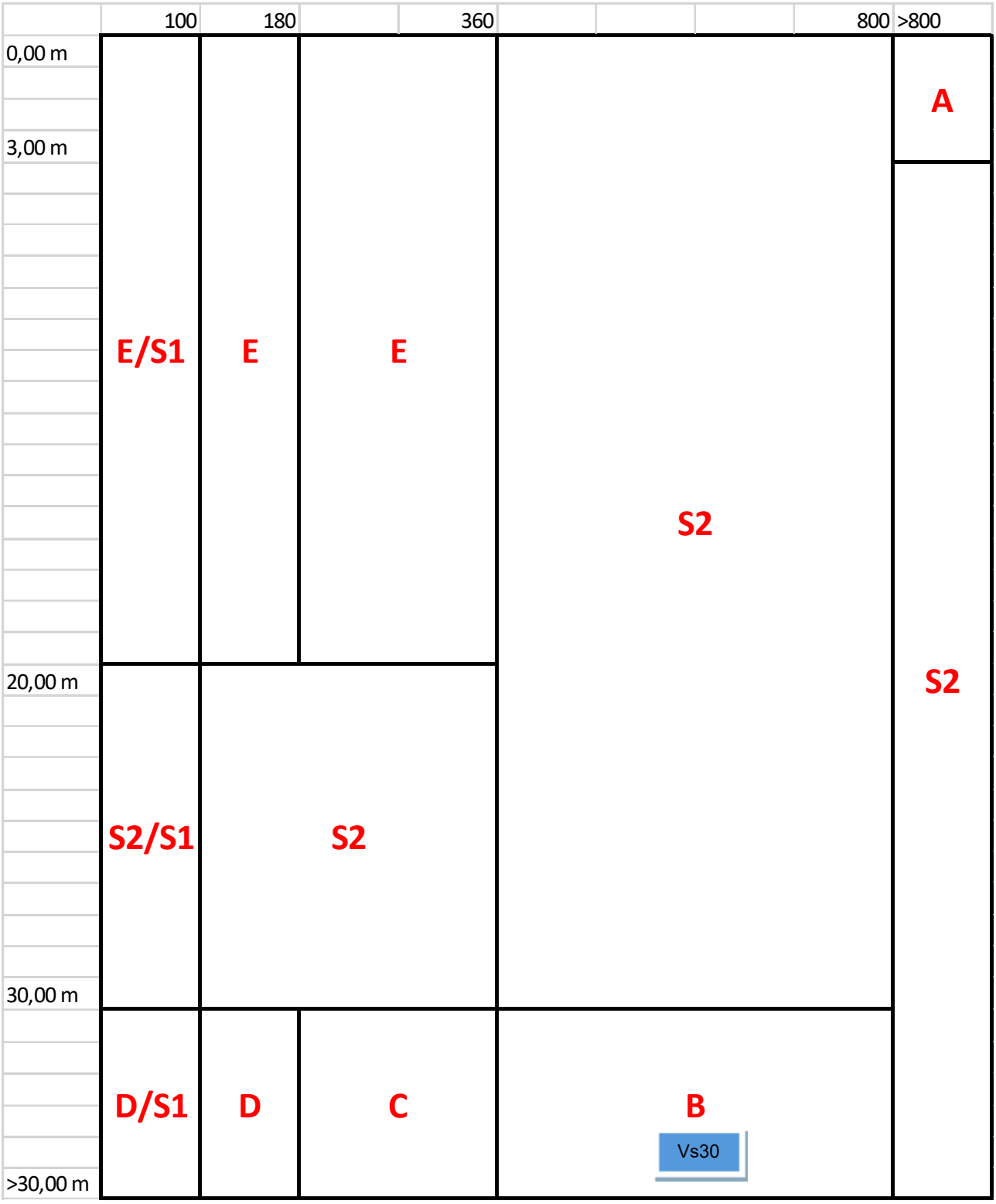
-2,00E-01
-2,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 7 / SCENARIO 392
3,00E-01
2,50E-01
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60

L'assegnazione di una categoria di sottosuolo secondo NTC08 a partire da un valore di Vs30 è stata eseguita nella presente MOPS 2006 in cui esiste un profilo di Vs univocamente definito (ovvero solo dove è stata eseguita la prova DH). Detta classe di sottosuolo vale solo per il punto dove questa è stata ricavata e non va intesa come rappresentativa dell'intera MOPS.

Il valore Vs30 calcolato in corrispondenza della prova DH è Vs=508m/sec.




100
180
360
800
>800
0,00 m
3,00 m
20,00 m
30,00 m
>30,00 m
E/S1
E
E
S2
A
S2/S1
S2
S2
D/S1
D
C
B
Vs30

5. MOPS 2007

FA 0.1-0.5	FA 0.4-0.8	FA 0.7-1.1
1.37	1.21	1.13

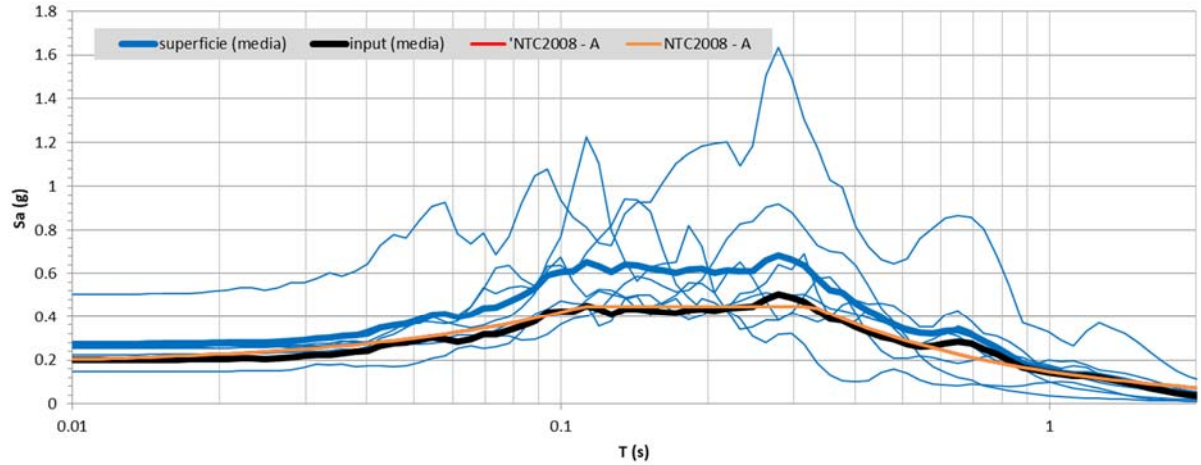
FA 0.1-0.5		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.34	1.37	1.39
FA 0.4-0.8		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.18	1.21	1.25
FA 0.7-1.1		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.09	1.13	1.17

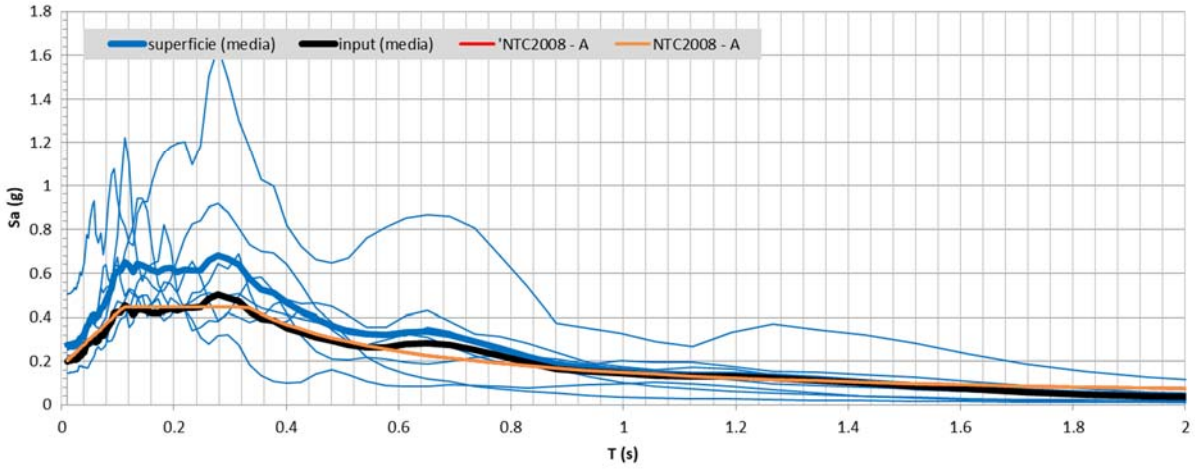
$$m_{ln} = \frac{1}{7}\sum_{i=1}^{7} \ln(FA_i)$$

$$FA_{rif} = e^{m_{ln}}$$

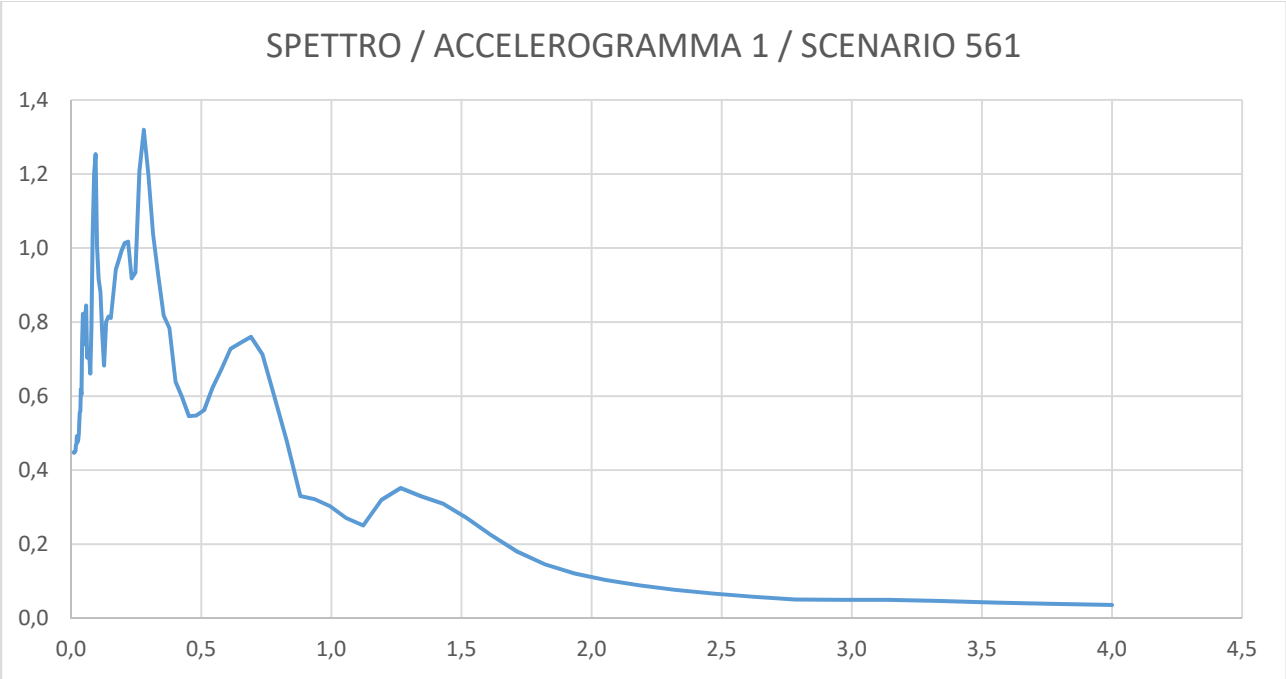
$$s_{ln} = \sqrt{\frac{1}{6}\sum_{i=1}^{7} [\ln(FA_i) - m_{ln}]^2}$$

$$e^{m_{ln}-s_{ln}} \quad e^{m_{ln}+s_{ln}}$$





TEMPI	ACCELEROGRAMMA 1 SCENARIO 561	ACCELEROGRAMMA 2 SCENARIO 590	ACCELEROGRAMMA 3 SCENARIO 563	ACCELEROGRAMMA 4 SCENARIO 564	ACCELEROGRAMMA 5 SCENARIO 509	ACCELEROGRAMMA 6 SCENARIO 510	ACCELEROGRAMMA 7 SCENARIO 511
0.01000	0.44775489	0.21663711	0.13697130	0.25367028	0.25794306	0.20366763	0.21152903
0.01062	0.44802170	0.21669622	0.13702634	0.25391442	0.25826959	0.20381028	0.21155067
0.01129	0.44828726	0.21676334	0.13712478	0.25418808	0.25863591	0.20397262	0.21160665
0.01199	0.44853560	0.21683949	0.13725955	0.25450120	0.25894215	0.20415775	0.21181803
0.01274	0.44863057	0.21692580	0.13743465	0.25486816	0.25942214	0.20436946	0.21207949
0.01353	0.44804607	0.21702364	0.13755450	0.25526329	0.25993888	0.20429620	0.21210285
0.01438	0.44991625	0.21713342	0.13788097	0.25575316	0.26059036	0.20456084	0.21274981
0.01528	0.45048303	0.21725340	0.13805801	0.25630012	0.26106730	0.20487374	0.21339803
0.01623	0.45178450	0.21740391	0.13807010	0.25681073	0.26183482	0.20524964	0.21316300
0.01724	0.45429460	0.21758787	0.13768048	0.25762459	0.26368336	0.20570945	0.21262945
0.01832	0.46769016	0.21777786	0.13742669	0.25847156	0.26594146	0.20624753	0.21212505
0.01946	0.47023125	0.21803370	0.13720021	0.25957319	0.26748296	0.20679822	0.21217418
0.02067	0.47209838	0.21843047	0.13844120	0.25958853	0.26800222	0.20741613	0.21301715
0.02196	0.49173389	0.21872045	0.14193961	0.26018544	0.26653596	0.20865370	0.21596068
0.02333	0.49138711	0.21883470	0.14419384	0.26171503	0.26226363	0.20974562	0.21767026
0.02479	0.47654193	0.21916747	0.14400451	0.26534493	0.25972611	0.20984774	0.21810597
0.02634	0.47895078	0.21997551	0.14447297	0.26462145	0.26204511	0.21161060	0.22015380
0.02798	0.48345275	0.22077465	0.14798130	0.26465569	0.26665849	0.21405880	0.21839757
0.02972	0.49796890	0.22067131	0.15693406	0.28115363	0.26852071	0.21365087	0.22063816
0.03158	0.52605022	0.22375655	0.16967693	0.29082891	0.27668411	0.21223269	0.21613751
0.03355	0.55562045	0.22937543	0.17765413	0.28384055	0.27972302	0.21136355	0.22359373
0.03564	0.55984339	0.23171858	0.19177624	0.30431861	0.28872514	0.21501217	0.23600666
0.03786	0.61751612	0.24012566	0.17522549	0.32898930	0.28237954	0.21199247	0.24902366
0.04023	0.60476910	0.24390812	0.16377434	0.34430454	0.28322887	0.23856387	0.23831222
0.04274	0.74635414	0.24124996	0.16562344	0.36520639	0.30598147	0.28243043	0.24711857
0.04540	0.82208745	0.23647674	0.15285375	0.35325441	0.33450406	0.30024931	0.24488876
0.04824	0.77003859	0.22967335	0.16305560	0.35069667	0.36867077	0.34574633	0.24676348
0.05125	0.73992241	0.22242383	0.18475812	0.36454533	0.36683050	0.37696290	0.26590729
0.05444	0.81917965	0.22388791	0.20374099	0.39213422	0.40621046	0.37751603	0.27660784
0.05784	0.84449265	0.23134267	0.20738610	0.36055972	0.45183010	0.36729686	0.28791690
0.06145	0.70383941	0.23787870	0.23925416	0.34458885	0.45421344	0.37632514	0.29976992
0.06528	0.72628218	0.25923242	0.25073103	0.36287044	0.50494633	0.49193120	0.29258437
0.06935	0.71684734	0.26389018	0.23691747	0.37459915	0.60218094	0.57687672	0.29607700
0.07368	0.66078021	0.26933438	0.24792178	0.40249370	0.70486590	0.54906853	0.32825076
0.07828	0.78308874	0.28144939	0.26785322	0.41359670	0.69760481	0.60444153	0.35751041
0.08316	1.03805955	0.24236760	0.35528690	0.46150250	0.60289538	0.63902050	0.36060668
0.08835	1.20156601	0.24204601	0.44593561	0.53210033	0.57038171	0.64781654	0.36419982
0.09386	1.25337376	0.27520335	0.46098393	0.70336091	0.67762249	0.76185576	0.39131844
0.09972	1.00680833	0.34945760	0.50410909	0.81942990	0.66557774	0.84730962	0.37860937
0.10594	0.91658037	0.37986656	0.48304241	1.06192772	0.59911279	0.68305190	0.38456437
0.11255	0.88074945	0.37789370	0.47391017	1.29948671	0.70655336	0.54199866	0.44819574
0.11957	0.77489266	0.38729470	0.34761755	1.16154605	0.76123076	0.55686030	0.49239700
0.12703	0.68260272	0.46775414	0.37492064	0.81490081	0.81514077	0.52221260	0.46918167
0.13495	0.80141948	0.51798582	0.45382094	0.64934582	0.93338496	0.47159529	0.44696559
0.14337	0.81453471	0.55892663	0.47318701	0.52529149	0.91112473	0.40670200	0.45189097
0.15232	0.81128586	0.53513990	0.35769336	0.57307435	0.83717758	0.41174962	0.45093637
0.16182	0.87395476	0.46768985	0.40575630	0.58472522	0.65231663	0.42557483	0.40381434
0.17192	0.94196278	0.42960341	0.42988737	0.59515182	0.49062067	0.41872347	0.36825763
0.18264	0.96681136	0.42702825	0.35390015	0.70570860	0.40168914	0.47227786	0.33703737
0.19404	0.99279957	0.46946283	0.42403139	0.62262940	0.36305626	0.47235685	0.34949113
0.20614	1.01346963	0.55092640	0.40374412	0.42418768	0.38386960	0.43747249	0.37838898
0.21901	1.01691491	0.63451602	0.36210370	0.51736058	0.36582919	0.36940797	0.38578683
0.23267	0.91800141	0.69740735	0.33527618	0.54965916	0.42484142	0.28395224	0.40007863
0.24718	0.93394586	0.68762131	0.26019661	0.47120710	0.42641437	0.29300403	0.41895451
0.26261	1.20769648	0.73557639	0.23362818	0.37894046	0.46272337	0.30982094	0.42798489
0.27899	1.31918204	0.74364797	0.26240682	0.31240325	0.52989816	0.30996171	0.41572582
0.29640	1.20102622	0.70267356	0.25213964	0.33896526	0.49448955	0.33021093	0.41360193
0.31489	1.03698198	0.63574120	0.22026263	0.39103785	0.55754813	0.31644135	0.41613864
0.33453	0.92670245	0.57437139	0.15261235	0.45216420	0.41692852	0.30582312	0.39036711
0.35540	0.81775484	0.54617349	0.10422860	0.46134394	0.31869649	0.31633274	0.36397504
0.37758	0.78343908	0.55329137	0.08794197	0.41034663	0.30102092	0.36143428	0.35285674
0.40113	0.63976962	0.51209636	0.08188299	0.32656951	0.30878125	0.38486711	0.33672290
0.42616	0.59765517	0.43496882	0.08851834	0.25301621	0.35814079	0.36975120	0.31771821
0.45275	0.54579799	0.34763245	0.11792483	0.20109954	0.34021885	0.38796694	0.30404794
0.48099	0.54756266	0.30530091	0.13097888	0.17605783	0.28132293	0.38109495	0.29692191
0.51100	0.56228033	0.24392853	0.11368510	0.17630988	0.23577843	0.34861802	0.29517272
0.54288	0.62222081	0.18050588	0.09231375	0.18307375	0.22362243	0.30657667	0.28654402
0.57675	0.67165209	0.13540966	0.07745446	0.17792719	0.25583522	0.30927313	0.26873183
0.61274	0.72778479	0.11455018	0.07280217	0.16413650	0.28516658	0.35671950	0.27301200
0.65096	0.74356835	0.09465585	0.07260305	0.16560605	0.27028868	0.36994026	0.30704068
0.69158	0.76008604	0.09207356	0.08048469	0.17360015	0.23348534	0.32992791	0.29184523
0.73472	0.71325972	0.06947804	0.07543674	0.19274309	0.19730002	0.29201269	0.25254241
0.78056	0.60003626	0.06014199	0.07286003	0.20307275	0.17008788	0.28162347	0.21509860
0.82926	0.47765901	0.05136192	0.07075135	0.20391458	0.15710719	0.25891339	0.17570255
0.88100	0.33006832	0.04298359	0.07966626	0.19293197	0.15473097	0.22359895	0.14600226
0.93596	0.32122882	0.03439805	0.08671618	0.17184969	0.17042796	0.18032198	0.11517771
0.99435	0.30293339	0.03129911	0.09005946	0.14871233	0.18849836	0.16484262	0.09405085
1.05639	0.27066891	0.02862760	0.09624443	0.13185370	0.18261894	0.15361173	0.07937214
1.12230	0.25061613	0.02582151	0.09113170	0.12144950	0.18507316	0.16412408	0.06635323
1.19232	0.31973120	0.02220853	0.07851009	0.10649804	0.16659887	0.15478252	0.05736299
1.26670	0.35173534	0.02034743	0.06584007	0.09245122	0.14384364	0.13057735	0.05007460
1.34573	0.32922824	0.01850057	0.05086213	0.08444263	0.14028412	0.10933147	0.04335915
1.42969	0.30919426	0.01818917	0.03727166	0.07670183	0.13162891	0.08797324	0.03715788
1.51889	0.27108394	0.01499868	0.02938192	0.06828613	0.11832784	0.06610227	0.03160925
1.61365	0.22479744	0.01333968	0.02196387	0.06095689	0.10261440	0.05722832	0.02666490
1.71432	0.18022978	0.01176036	0.01645477	0.05165201	0.08583102	0.04776789	0.02236085
1.82127	0.14540603	0.01028882	0.01259967	0.04218054	0.06774597	0.03847328	0.01940157
1.93490	0.12086879	0.00894898	0.01172589	0.03261753	0.05568772	0.03386231	0.01750900
2.05562	0.10303468	0.00774245	0.01080083	0.02770256	0.04830693	0.02962244	0.01581759
2.18386	0.08880775	0.00666981	0.00971110	0.02179839	0.05216697	0.02897537	0.01430246
2.32011	0.07694236	0.00573503	0.00890493	0.01855869	0.05255053	0.03026969	0.01280000
2.46486	0.06693991	0.00492648	0.00813377	0.01606508	0.04693393	0.02845410	0.01135475
2.61864	0.05811096	0.00432928	0.00779012	0.01152575	0.04052517	0.02463903	0.01020261
2.78201	0.05023078	0.00384062	0.00734095	0.01152015	0.03601318	0.01981995	0.00911798
2.95558	0.04930182	0.00341173	0.00632475	0.01200003	0.03165783	0.02001936	0.00802216
3.13998	0.04969437	0.00304047	0.00555680	0.01171527	0.02709034	0.01967806	0.00710866
3.33587	0.04642818	0.00272781	0.00442971	0.01009812	0.02134021	0.01838942	0.00615730
3.54400	0.04208865	0.00254749	0.00425907	0.00921718	0.01547626	0.01636571	0.00544747
3.76510	0.03879460	0.00214523	0.00428363	0.00836266	0.01261989	0.01410792	0.00494245
4.00000	0.03560062	0.00190738	0.00385124	0.00731357	0.01014639	0.01167364	0.00415255


SPETTRO / ACCELEROGRAMMA 1 / SCENARIO 561
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1,2
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0,8
0,6
0,4
0,2
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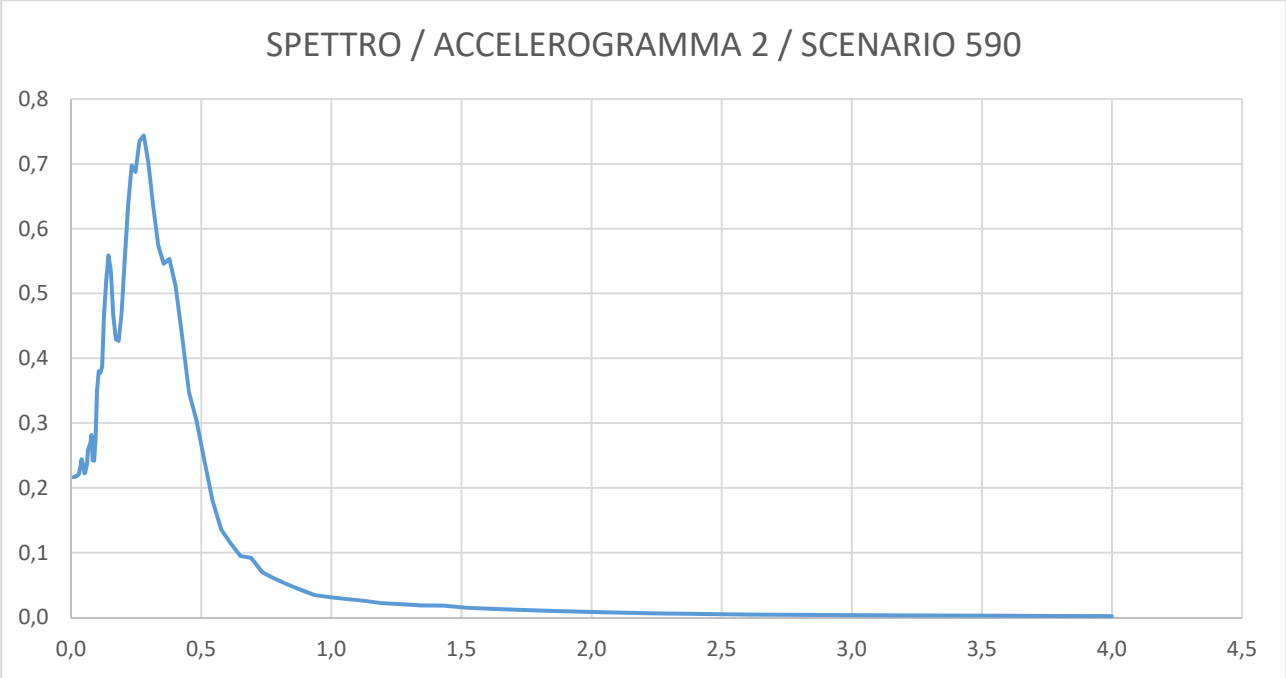
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 2 / SCENARIO 590
0,8
0,7
0,6
0,5
0,4
0,3
0,2
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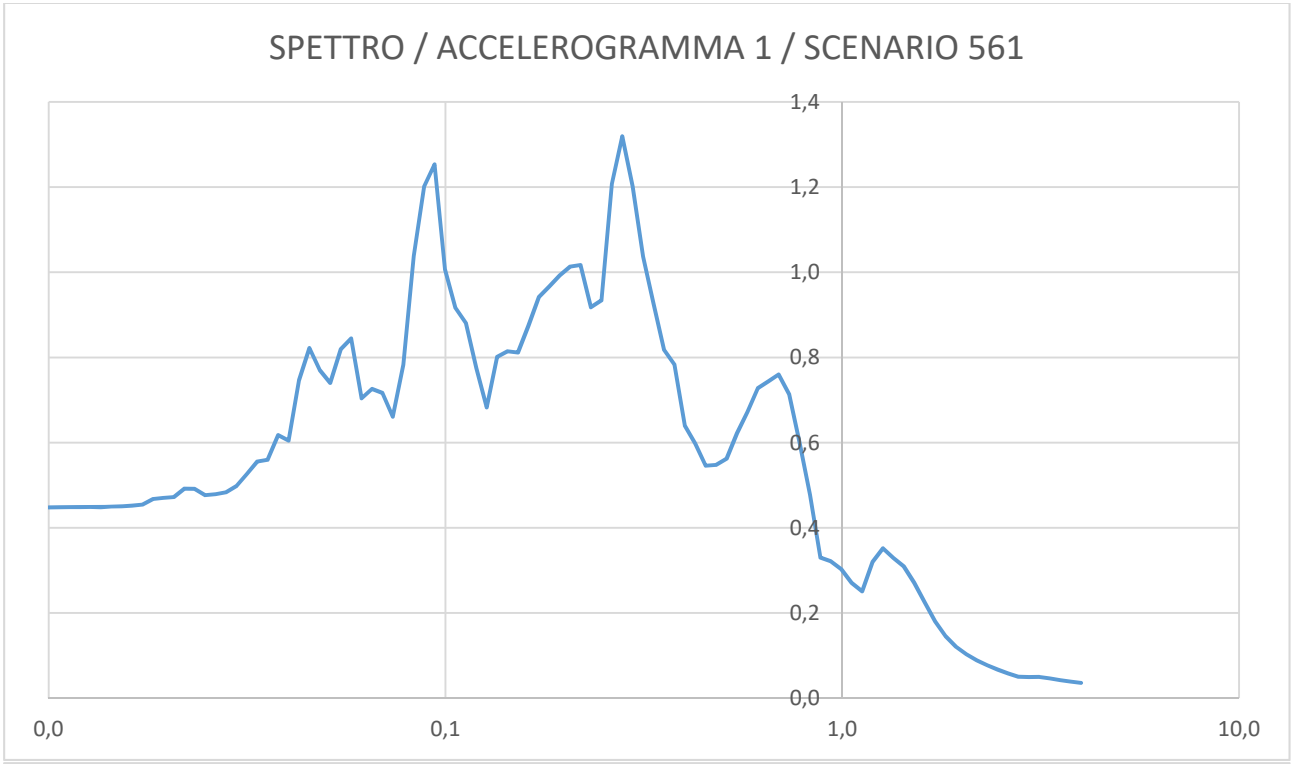
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 1 / SCENARIO 561
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1,2
1,0
0,8
0,6
0,4
0,2
0,0
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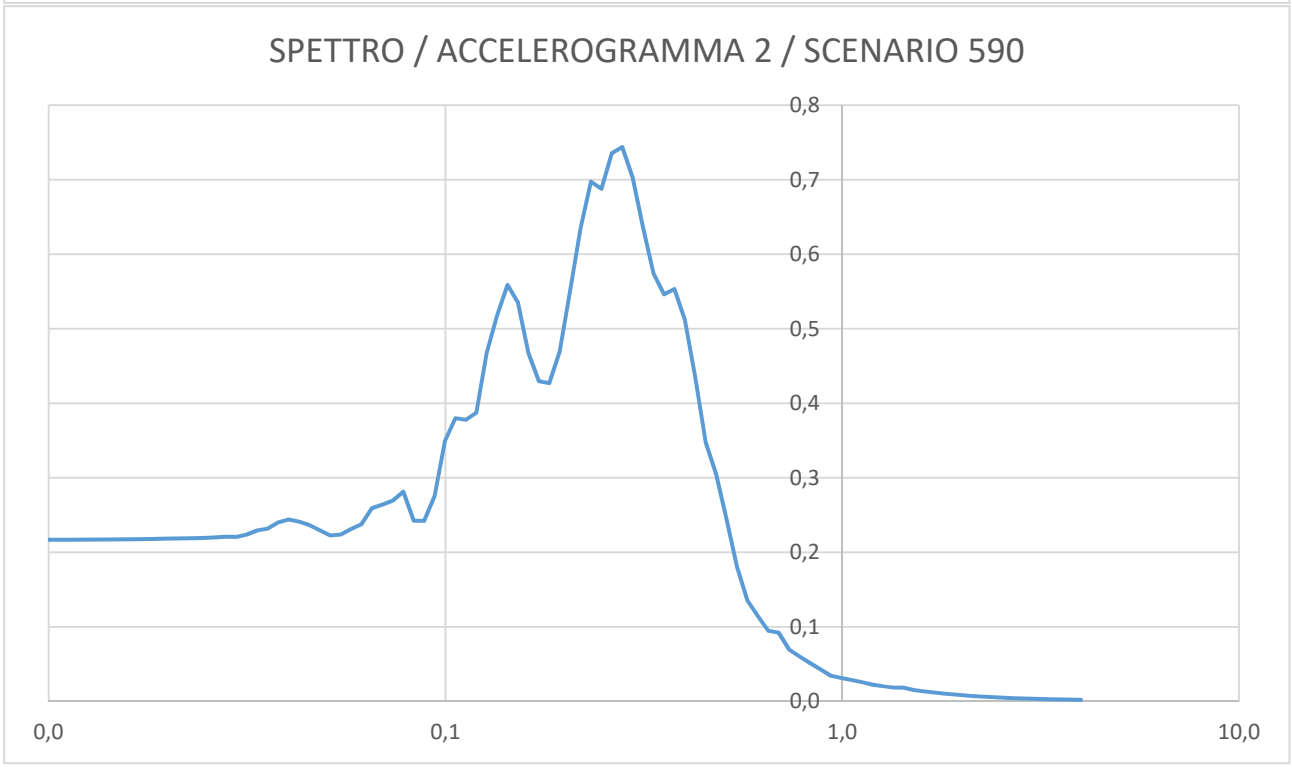
1,0
10,0


SPETTRO / ACCELEROGRAMMA 2 / SCENARIO 590
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0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
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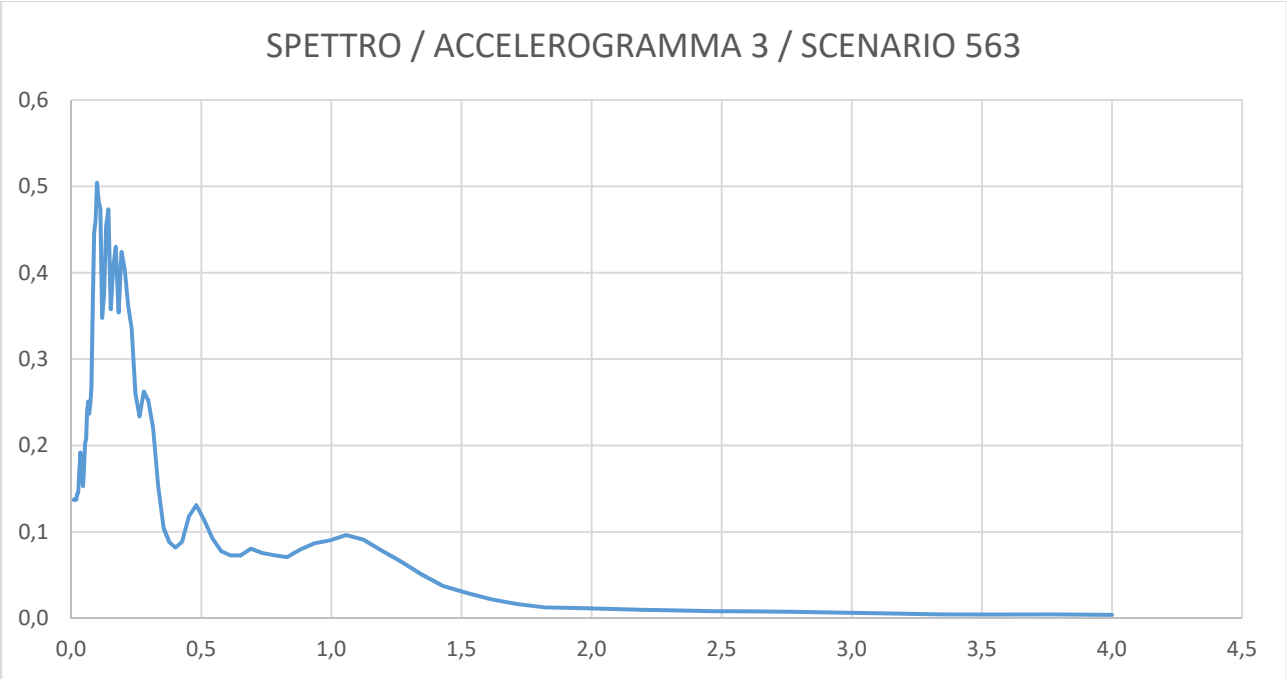
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 3 / SCENARIO 563
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0,5
0,4
0,3
0,2
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0,0
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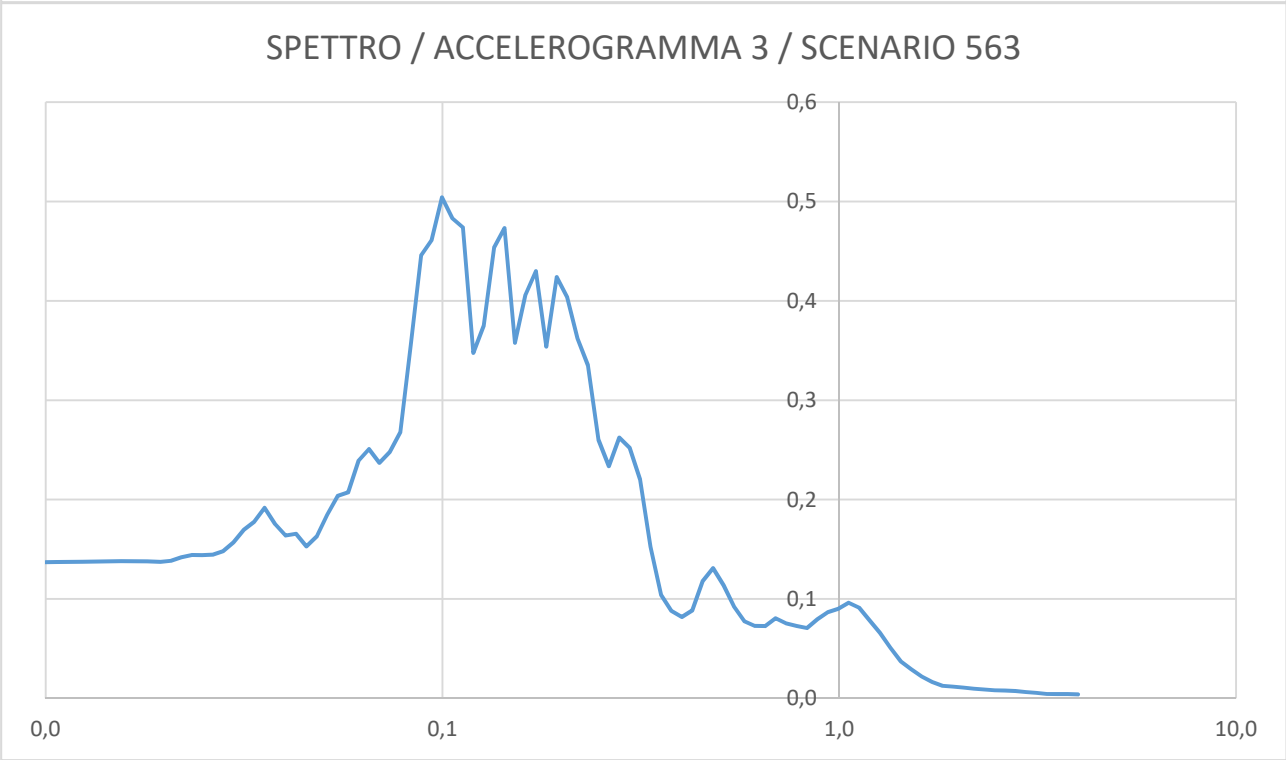
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 3 / SCENARIO 563
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0,5
0,4
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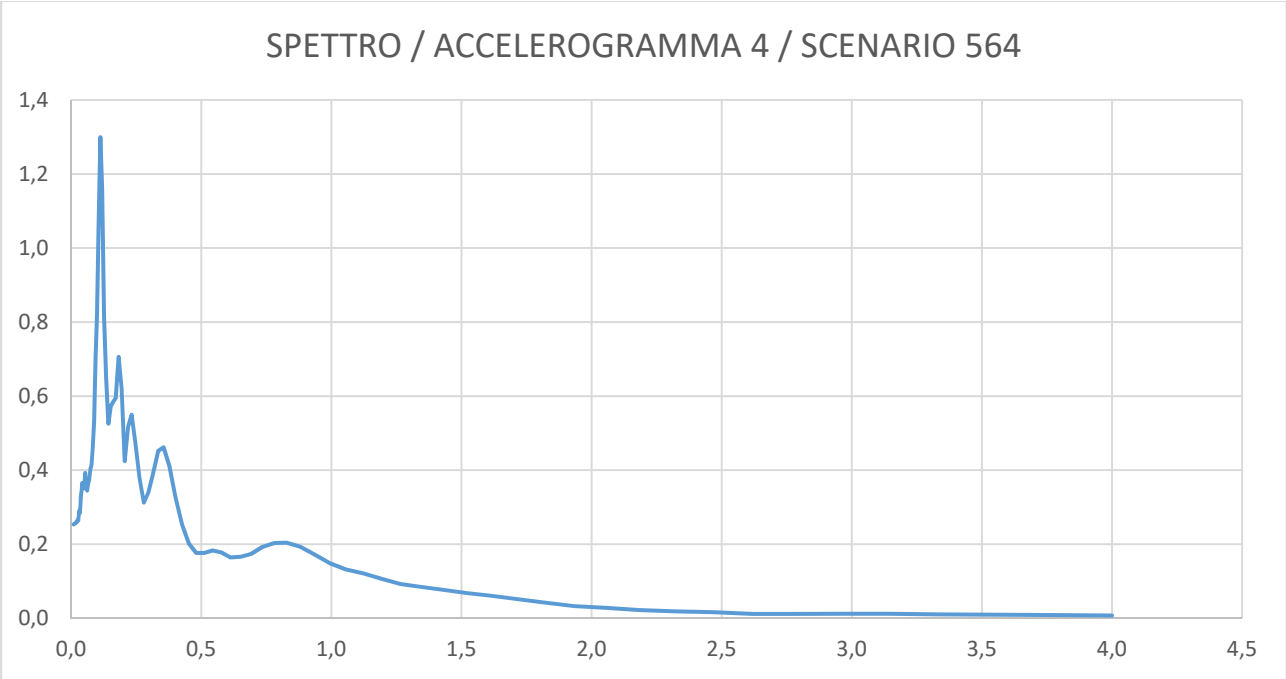
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 4 / SCENARIO 564
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1,0
0,8
0,6
0,4
0,2
0,0
0,0
0,5
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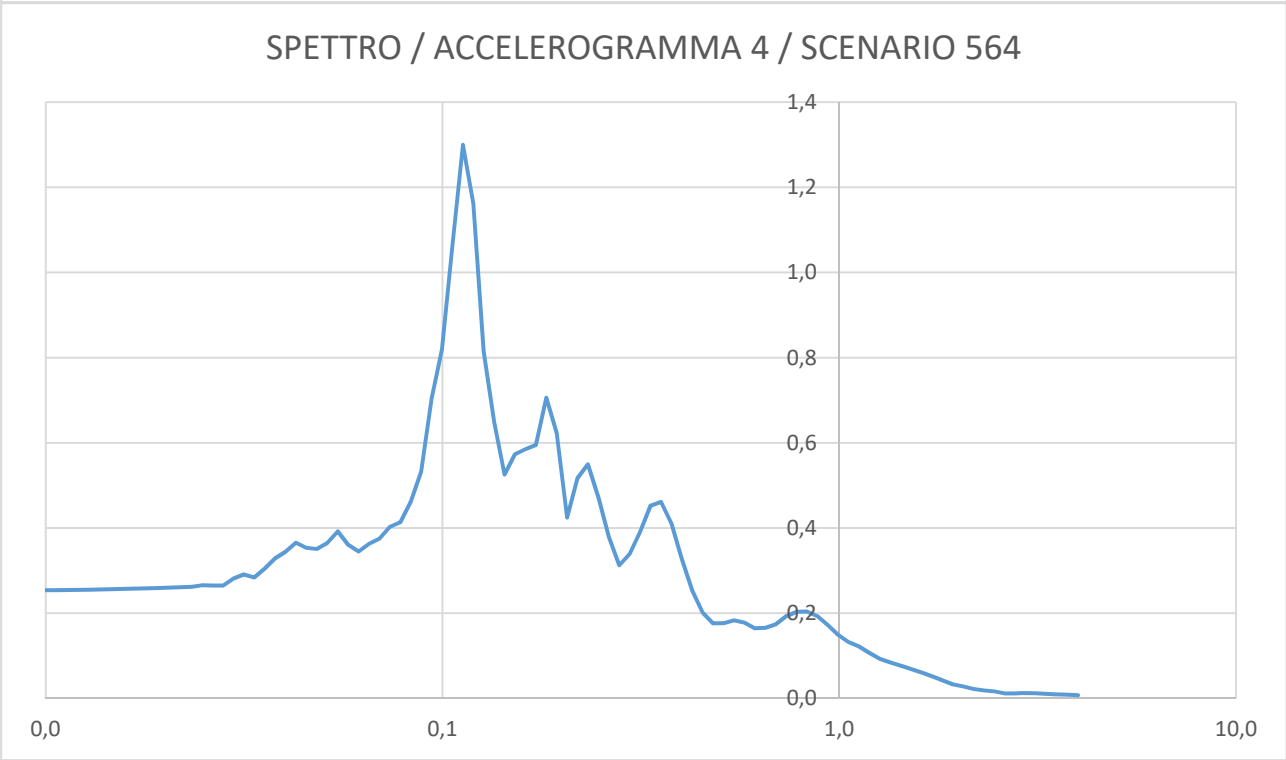
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 4 / SCENARIO 564
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1,2
1,0
0,8
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0,4
0,2
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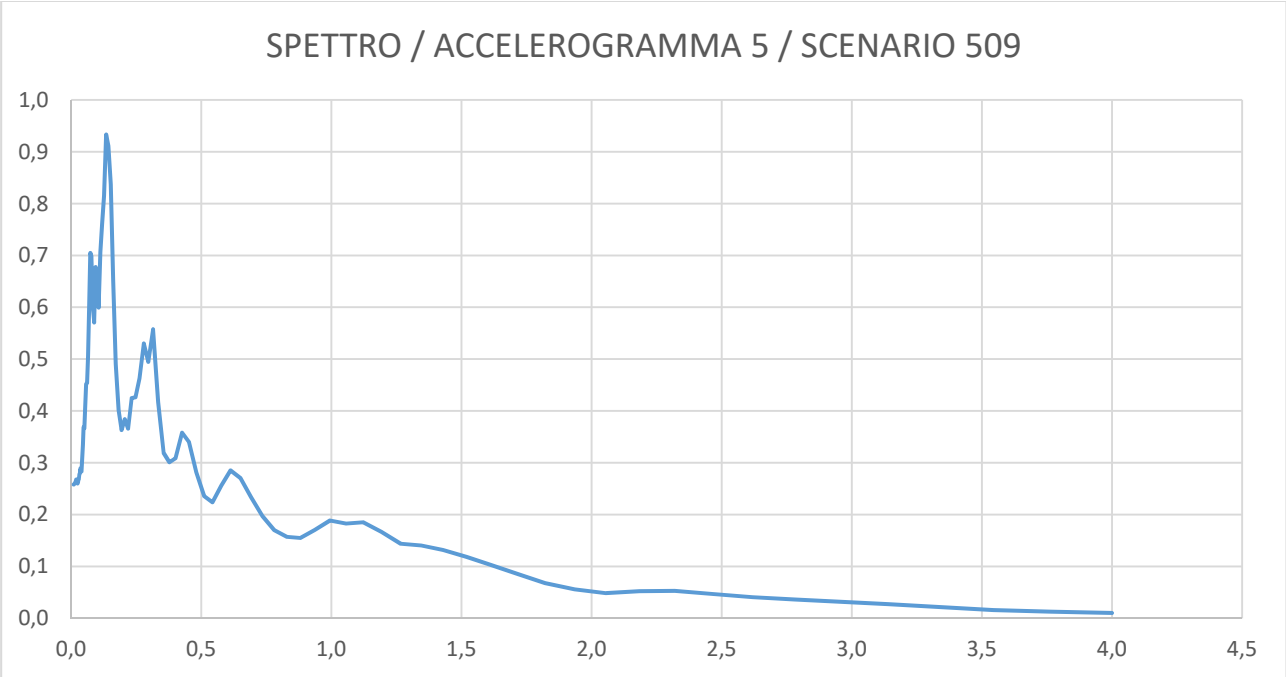
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 509
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0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
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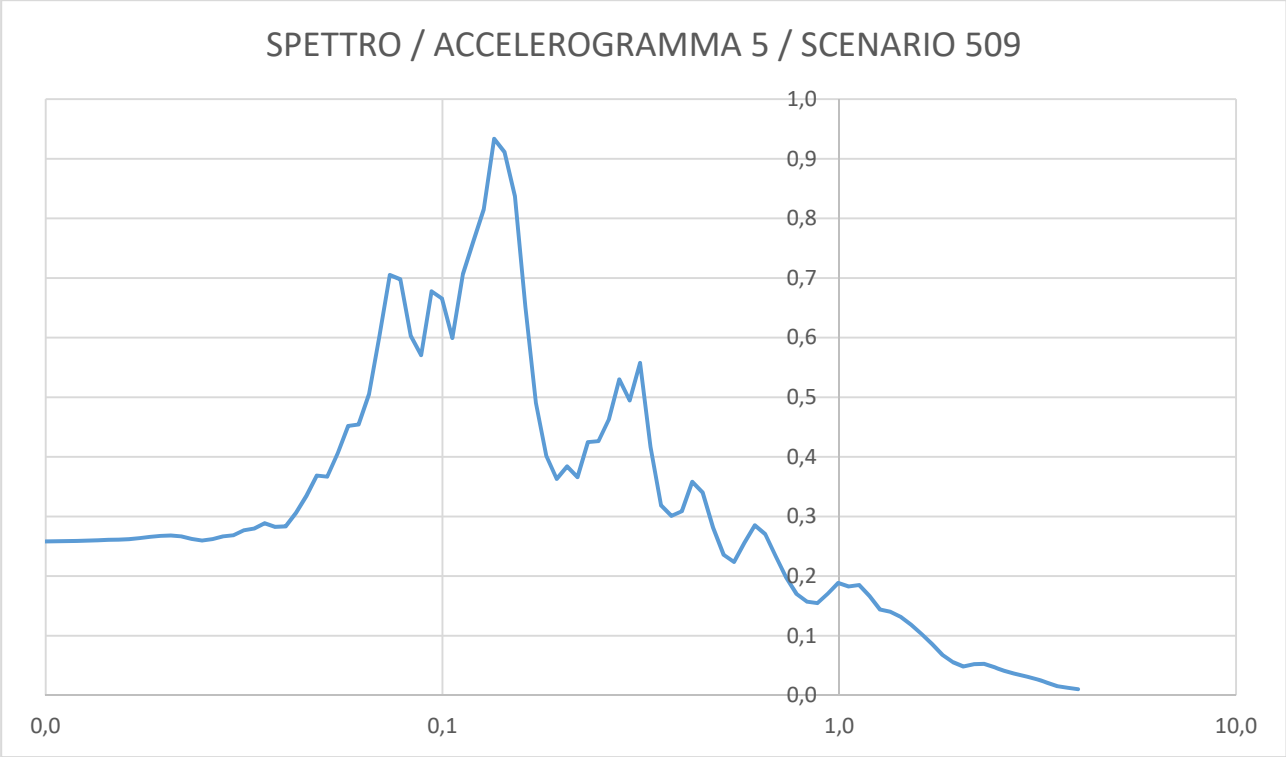
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 509
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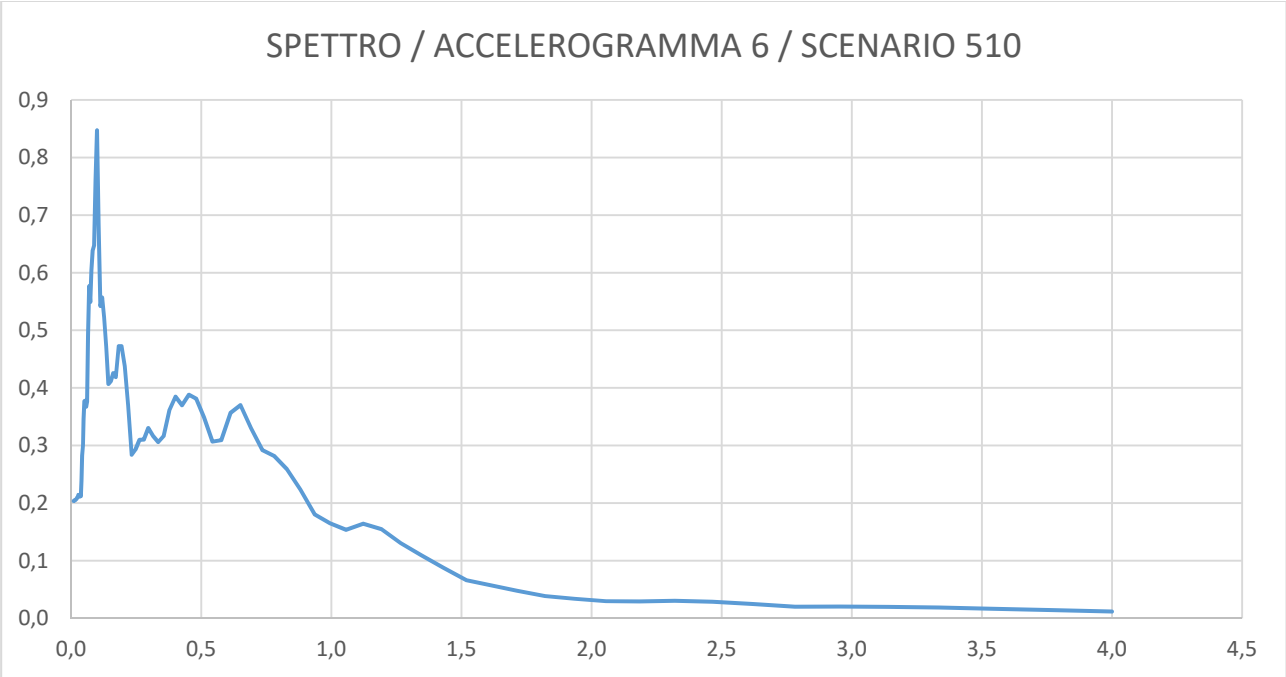
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 510
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
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0,0
0,0
0,5
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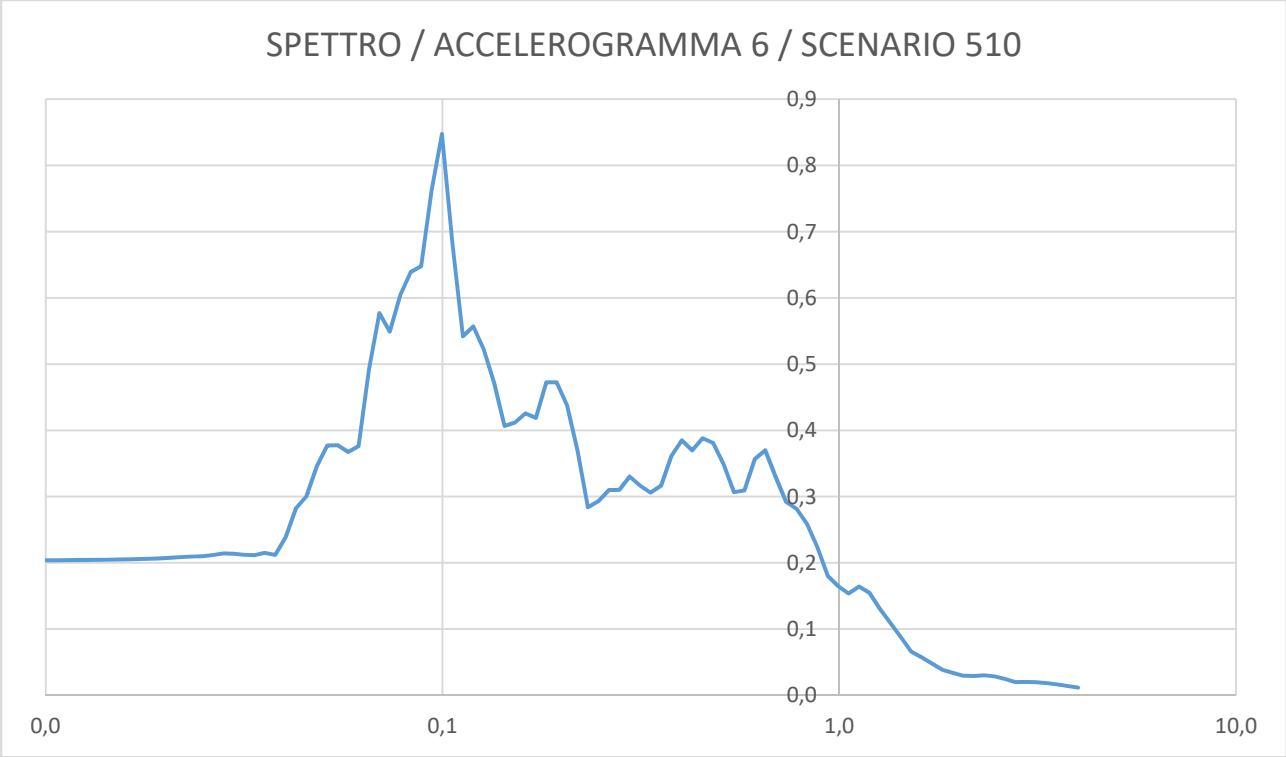
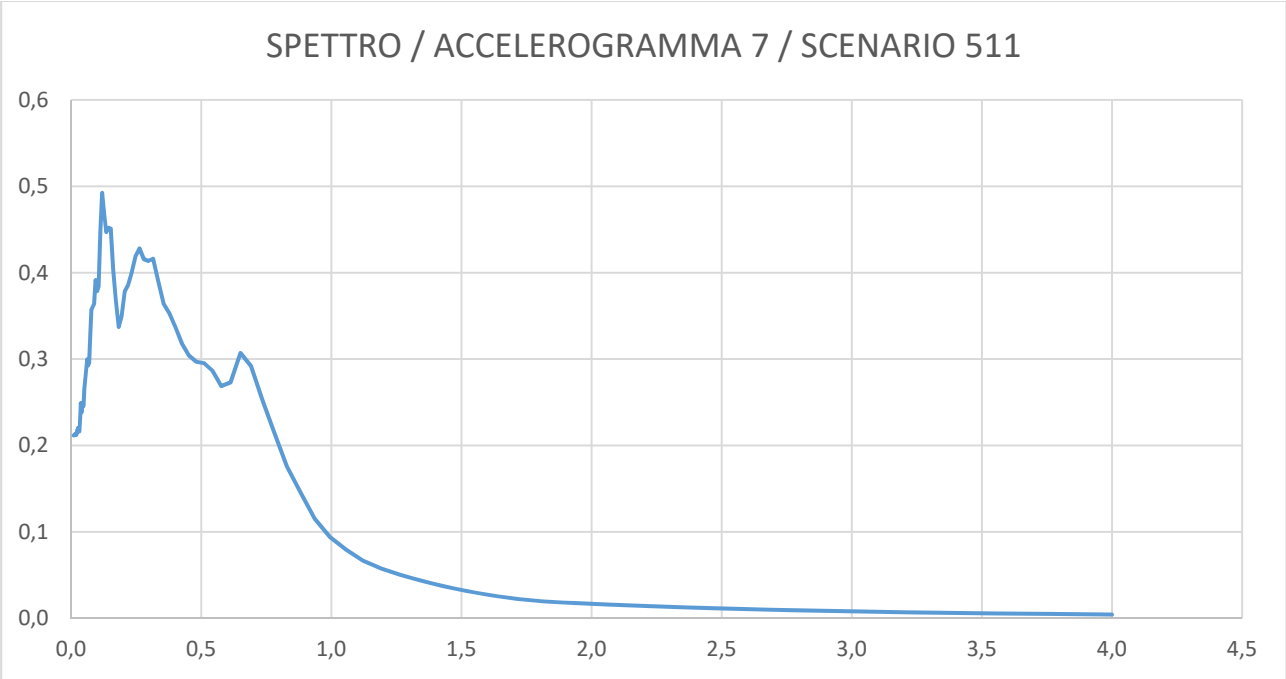
2,0
2,5
3,0
3,5
4,0
4,5


SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 510
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0


SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 511
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0,5
0,4
0,3
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0,5
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1,5
2,0
2,5
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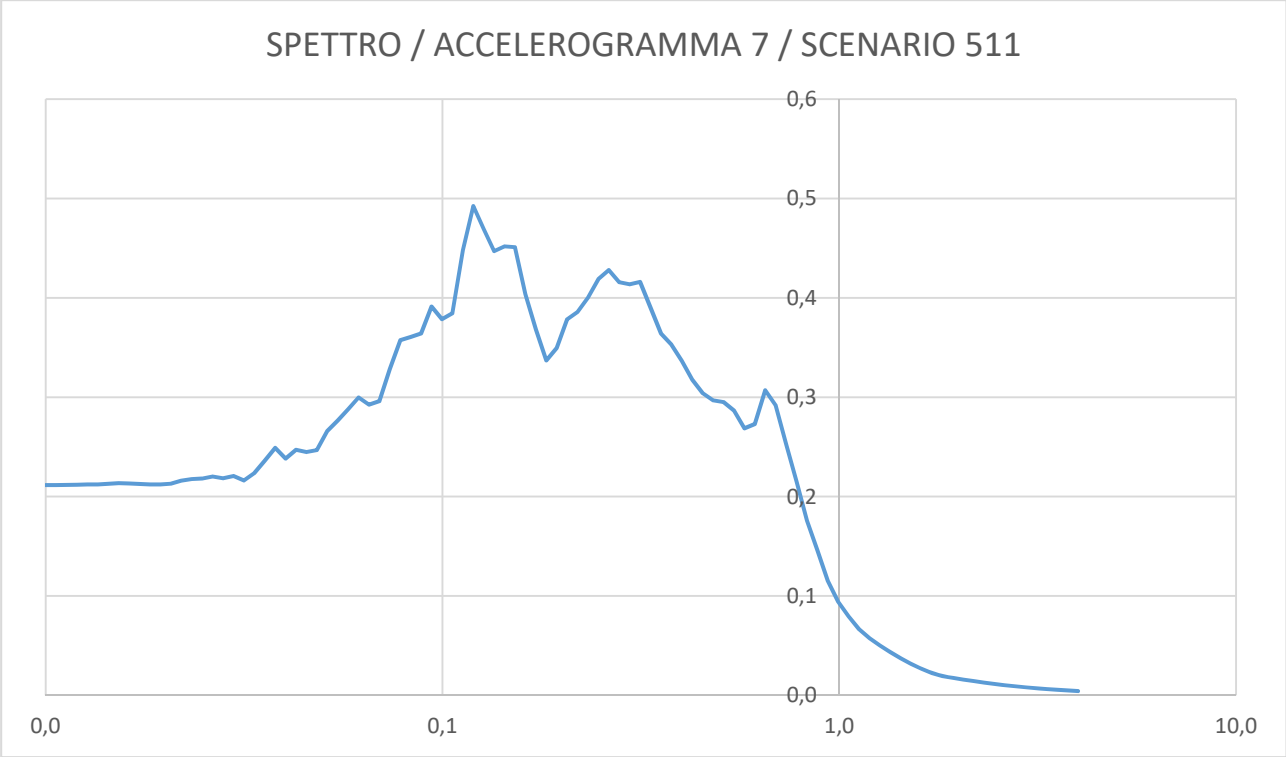
4,5


SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 511
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0,4
0,3
0,2
0,1
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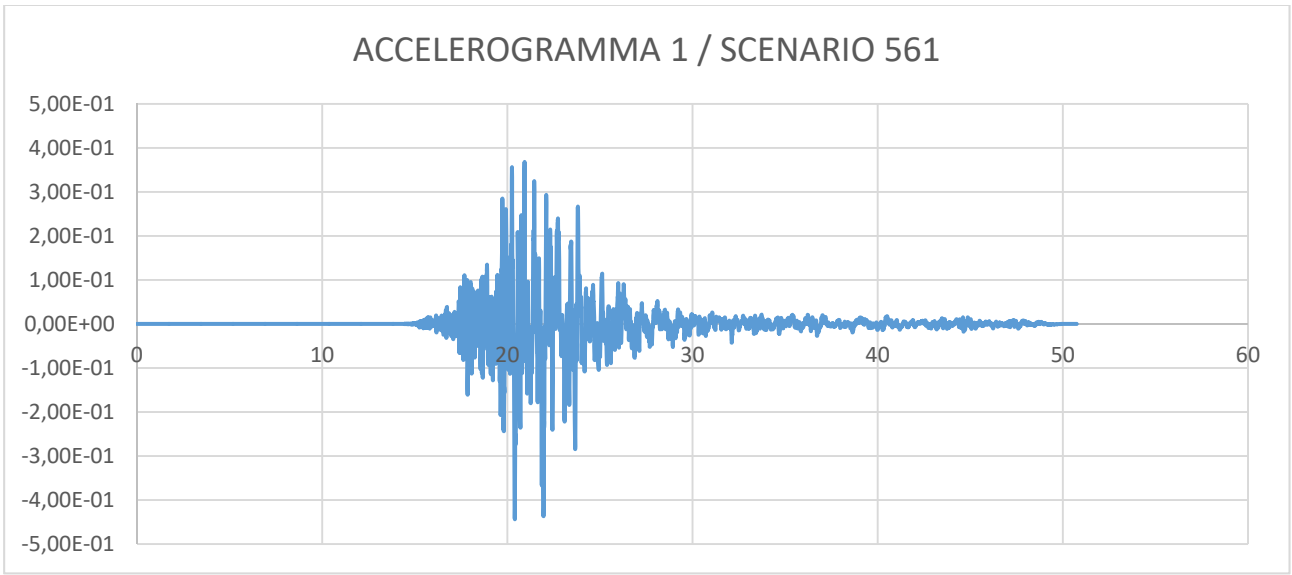
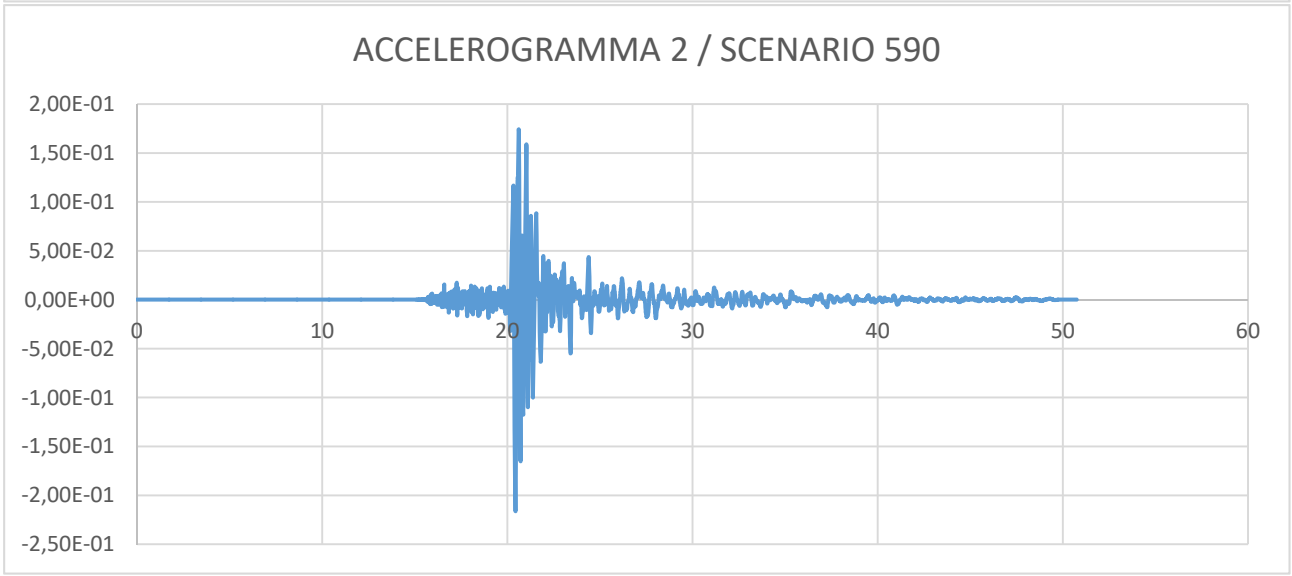
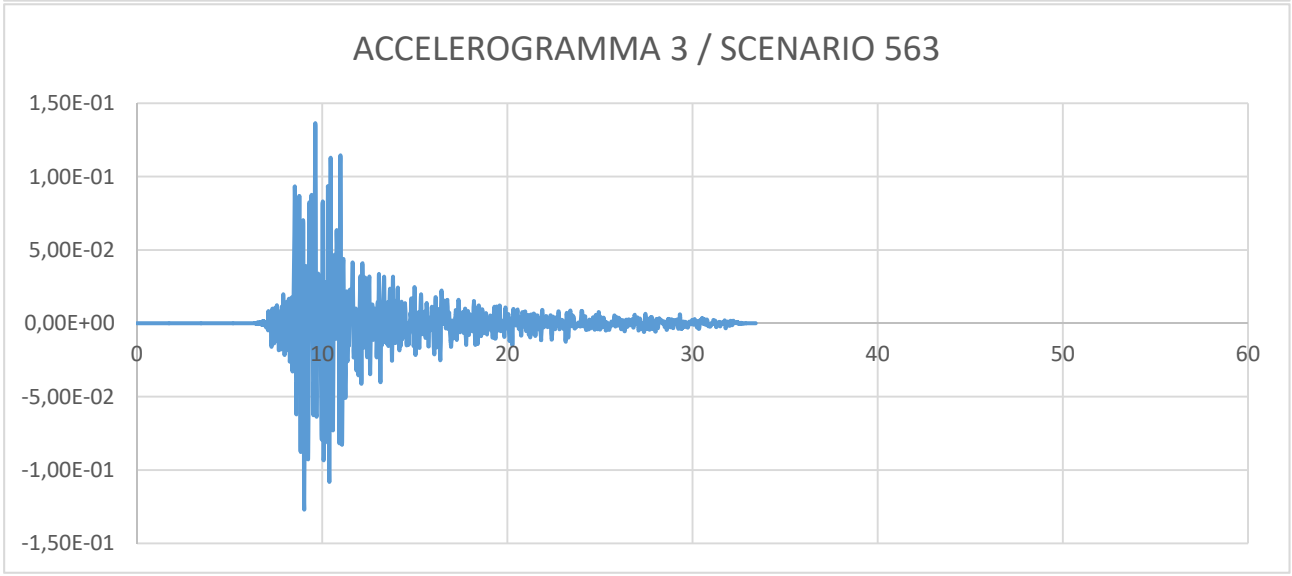
0,1
1,0
10,0


ACCELEROGRAMMA 1 / SCENARIO 561
5,00E-01
4,00E-01
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
-4,00E-01
-5,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 2 / SCENARIO 590
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 3 / SCENARIO 563
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1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
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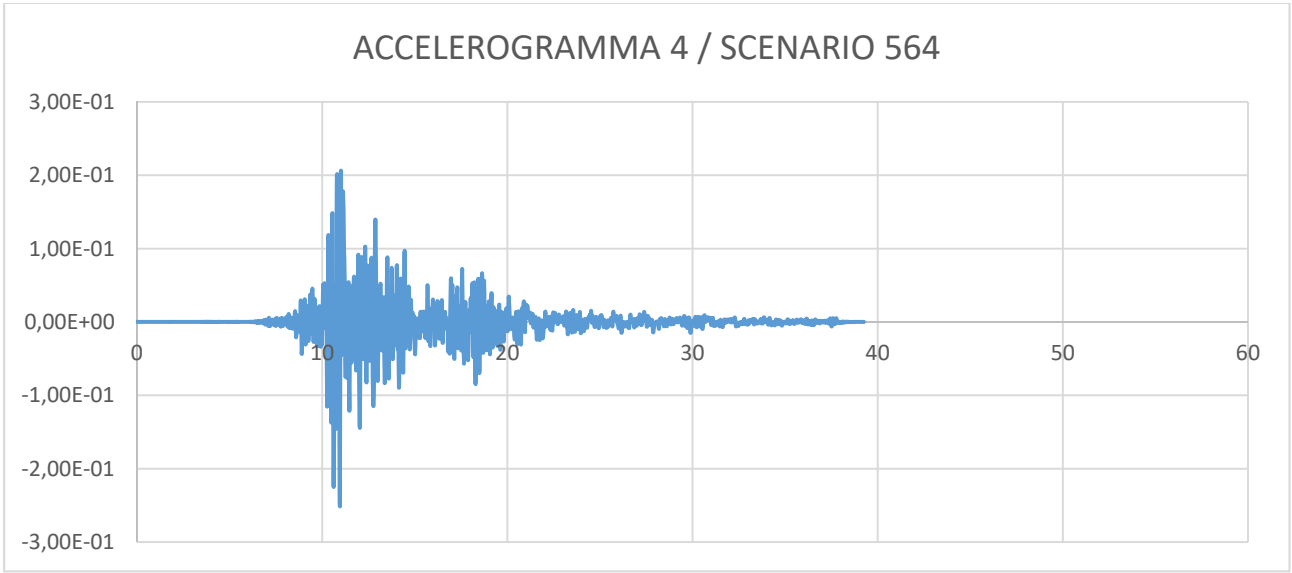
20
30
40
50
60


ACCELEROGRAMMA 4 / SCENARIO 564
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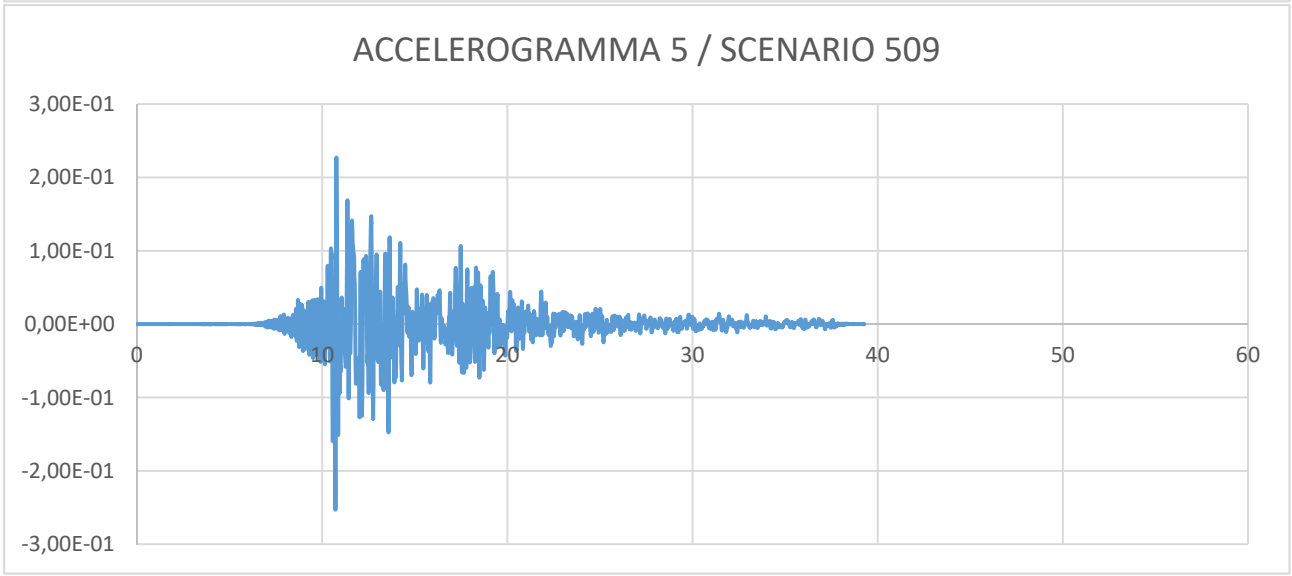
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 5 / SCENARIO 509
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2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
0
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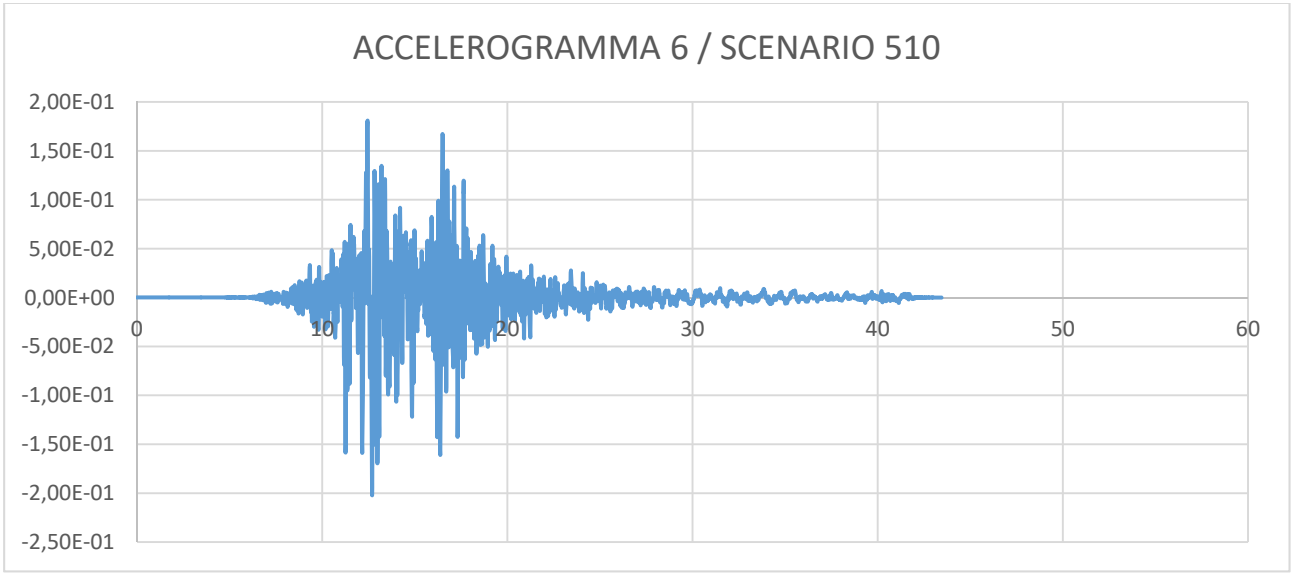
20
30
40
50
60


ACCELEROGRAMMA 6 / SCENARIO 510
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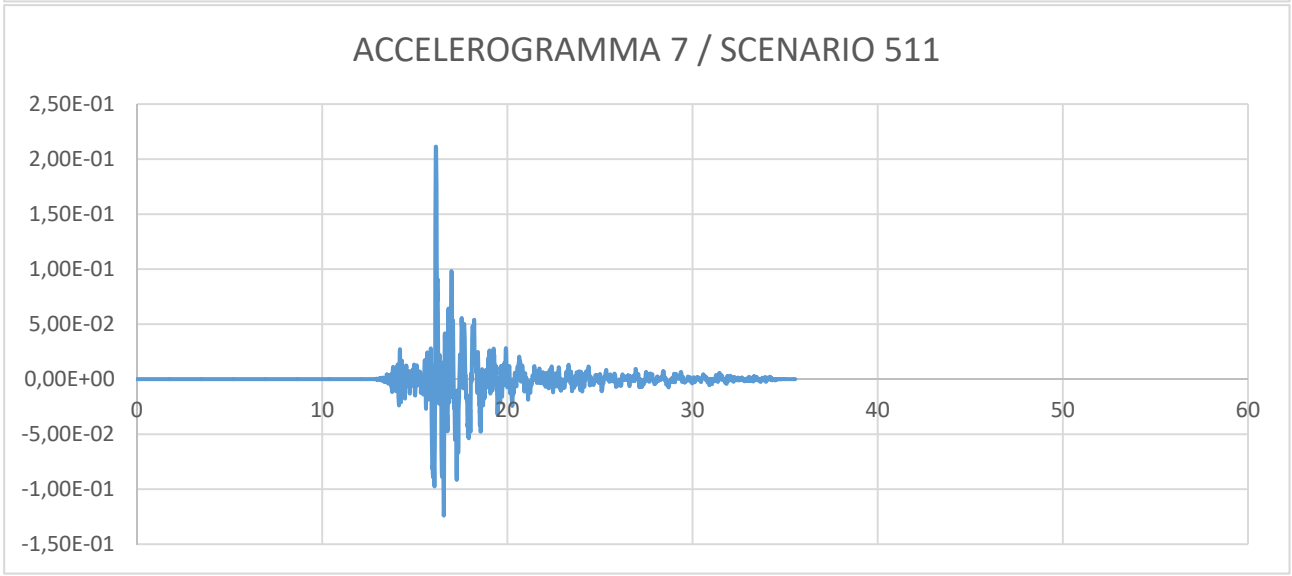
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 7 / SCENARIO 511
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2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60

6. MOPS 2008

FA 0.1-0.5	FA 0.4-0.8	FA 0.7-1.1
1.22	1.44	1.45

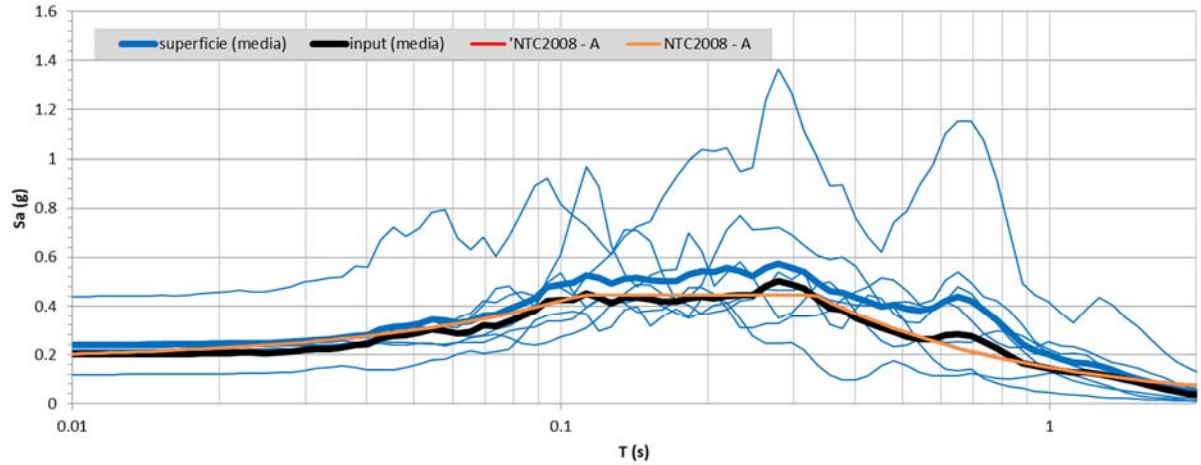
FA 0.1-0.5		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.19	1.22	1.25
FA 0.4-0.8		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.39	1.44	1.49
FA 0.7-1.1		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.40	1.45	1.49

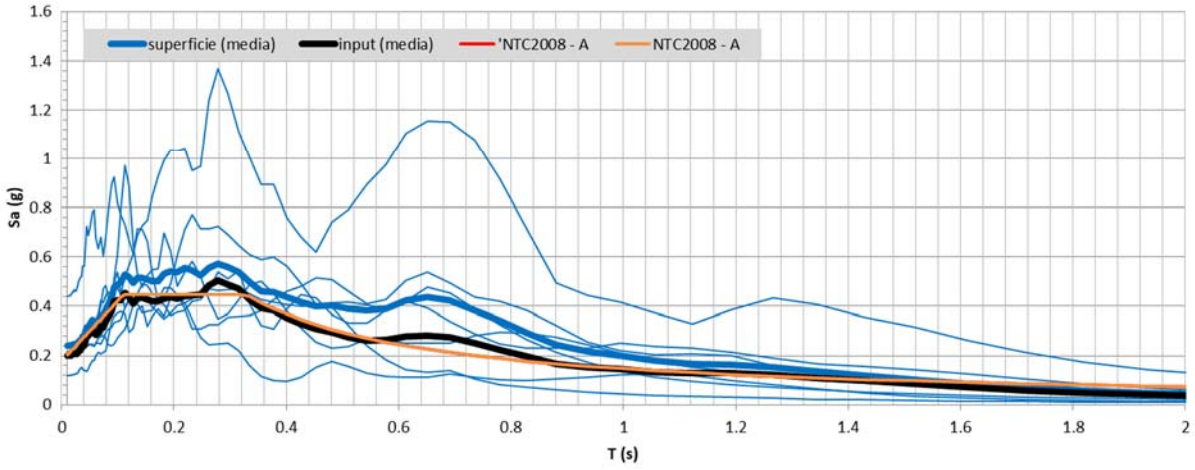
$$m_{ln} = \frac{1}{7}\sum_{i=1}^{7} \ln(FA_i)$$

$$FA_{rif} = e^{m_{ln}}$$

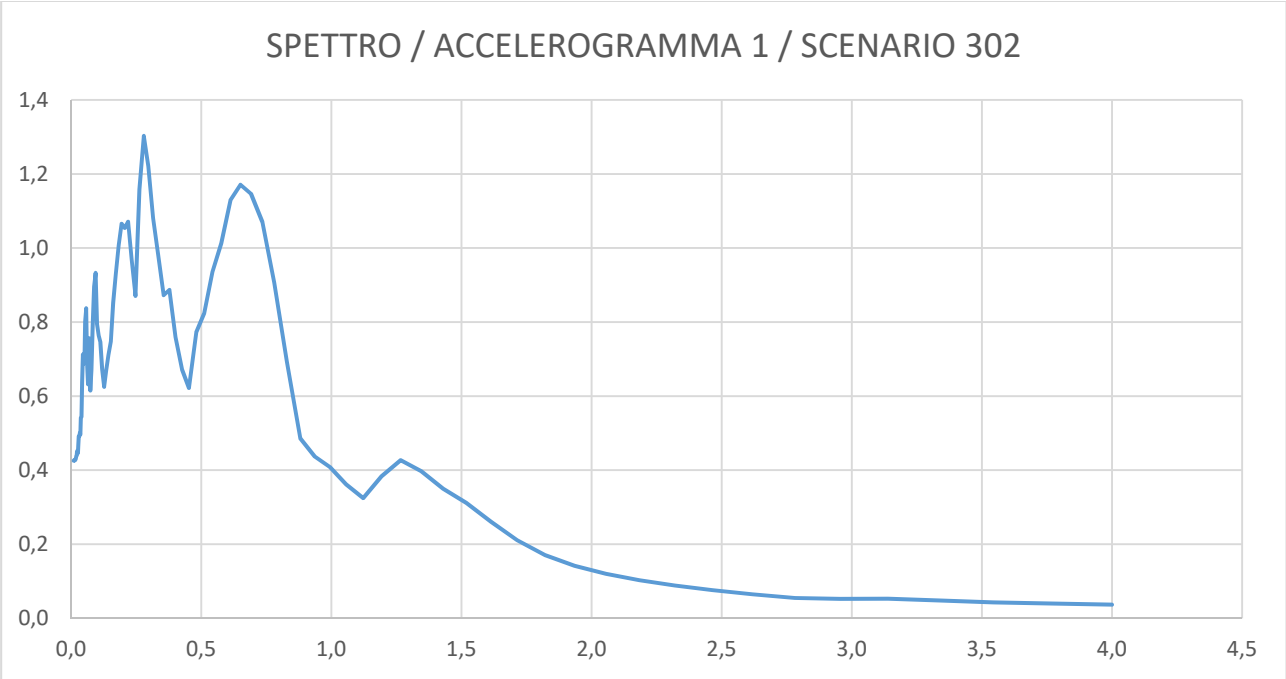
$$s_{ln} = \sqrt{\frac{1}{6}\sum_{i=1}^{7} [\ln(FA_i) - m_{ln}]^2}$$

$$e^{m_{ln}-s_{ln}} \quad e^{m_{ln}+s_{ln}}$$





TEMPI	ACCELEROGRAMMA 1 SCENARIO 302	ACCELEROGRAMMA 2 SCENARIO 548	ACCELEROGRAMMA 3 SCENARIO 549	ACCELEROGRAMMA 4 SCENARIO 655	ACCELEROGRAMMA 5 SCENARIO 551	ACCELEROGRAMMA 6 SCENARIO 552	ACCELEROGRAMMA 7 SCENARIO 553
0.01000	0.42575778	0.23232949	0.11475299	0.20593609	0.23118159	0.23359112	0.21840397
0.01062	0.42596360	0.23237946	0.11484064	0.20605576	0.23141735	0.23371065	0.21847122
0.01129	0.42622618	0.23243586	0.11497679	0.20619342	0.23168702	0.23384659	0.21855597
0.01199	0.42651460	0.23249955	0.11512707	0.20630935	0.23198341	0.23400150	0.21872698
0.01274	0.42676364	0.23257157	0.11527481	0.20650315	0.23230316	0.23417854	0.21890836
0.01353	0.42654558	0.23265305	0.11541403	0.20673395	0.23269206	0.23421942	0.21903740
0.01438	0.42649169	0.23274560	0.11557399	0.20699397	0.23313451	0.23444774	0.21912663
0.01528	0.42754888	0.23285217	0.11579502	0.20729101	0.23354651	0.23471268	0.21875610
0.01623	0.42802057	0.23292204	0.11652876	0.20766767	0.23429738	0.23501643	0.21905394
0.01724	0.42949997	0.23304296	0.11732204	0.20811511	0.23568534	0.23537948	0.21972354
0.01832	0.43322831	0.23318374	0.11810998	0.20844462	0.23707942	0.23579922	0.22008420
0.01946	0.43777707	0.23330261	0.11906970	0.20875844	0.23763808	0.23623856	0.22039268
0.02067	0.43900957	0.23347846	0.12050689	0.20924115	0.23792571	0.23674766	0.22016837
0.02196	0.44895611	0.23378375	0.12298821	0.20988103	0.23621070	0.23769751	0.22117761
0.02333	0.45192135	0.23405600	0.12357986	0.21018536	0.23295991	0.23861054	0.22394647
0.02479	0.44448101	0.23411474	0.12557985	0.20952350	0.22972187	0.23918517	0.22469938
0.02634	0.44763943	0.23439040	0.12531893	0.20972977	0.23622159	0.24035314	0.22577976
0.02798	0.46684825	0.23504931	0.12769912	0.20948953	0.23916683	0.24263045	0.22333961
0.02972	0.49125970	0.23560938	0.13151893	0.21115815	0.24032406	0.24310498	0.22135856
0.03158	0.49173586	0.23350618	0.14009671	0.20918604	0.24615215	0.24249190	0.22339963
0.03355	0.49980422	0.23638965	0.14760467	0.20648303	0.24842685	0.24304013	0.22072895
0.03564	0.49637380	0.23943134	0.15976699	0.21872161	0.25486089	0.24441571	0.24427534
0.03786	0.54174078	0.24591811	0.15111086	0.22896588	0.24558508	0.24077472	0.25224122
0.04023	0.54493045	0.25090312	0.13395751	0.24605591	0.25082981	0.24768323	0.24523698
0.04274	0.63814381	0.25205386	0.12687798	0.26631483	0.28212919	0.27341167	0.24699226
0.04540	0.71258989	0.25085990	0.13076767	0.26260311	0.30557741	0.27747030	0.23902603
0.04824	0.68720021	0.24740031	0.15073976	0.26553651	0.33273401	0.28198856	0.23959587
0.05125	0.70242841	0.24364742	0.16879099	0.28013583	0.32742493	0.31543933	0.24511254
0.05444	0.80127843	0.24470404	0.18750186	0.30958998	0.33703112	0.30716923	0.23608730
0.05784	0.83696011	0.23384437	0.18217165	0.29221673	0.31273413	0.30828291	0.23354925
0.06145	0.68922986	0.25184262	0.18445419	0.27031690	0.29664748	0.35218015	0.24999571
0.06528	0.63192738	0.26856368	0.19579277	0.26355480	0.34408907	0.38786748	0.24908035
0.06935	0.75607197	0.27304883	0.20104506	0.27367532	0.38872081	0.42970136	0.24735862
0.07368	0.61514984	0.27714765	0.20799625	0.29838175	0.46641698	0.40625343	0.26867062
0.07828	0.67009810	0.26486181	0.21513874	0.31465367	0.47465593	0.44735065	0.29563644
0.08316	0.78975577	0.24143849	0.28526972	0.34520669	0.41285758	0.46779563	0.30709240
0.08835	0.89609932	0.23838346	0.36355882	0.38989338	0.39856232	0.46430172	0.31460800
0.09386	0.93268023	0.25047257	0.37298776	0.50333965	0.47691495	0.50229840	0.33668588
0.09972	0.79492300	0.27714662	0.36818377	0.63033273	0.48352276	0.50757033	0.34503945
0.10594	0.76384599	0.27333146	0.36806114	0.81434951	0.45793036	0.43919154	0.35642531
0.11255	0.74499360	0.31519950	0.33647010	1.00781117	0.52694265	0.38999300	0.40353848
0.11957	0.67388156	0.36867893	0.30370641	0.94141173	0.54589807	0.43315806	0.44073849
0.12703	0.62510938	0.44429614	0.32907956	0.66523136	0.60503614	0.44901864	0.42678346
0.13495	0.66939689	0.46234765	0.37897199	0.53941424	0.71620548	0.42924210	0.41566399
0.14337	0.71144301	0.50422899	0.40008675	0.50002988	0.70367424	0.39161008	0.42161055
0.15232	0.74781070	0.49448796	0.29242286	0.53878285	0.64399563	0.39043528	0.42509534
0.16182	0.85188290	0.44055722	0.33814607	0.55797172	0.50281126	0.39036476	0.39334692
0.17192	0.92991505	0.43032944	0.36781131	0.57106931	0.39041904	0.42408097	0.36821216
0.18264	1.00755380	0.43935507	0.38869354	0.74180185	0.39487779	0.48591071	0.34788704
0.19404	1.06547857	0.50781092	0.48376444	0.67298559	0.35830240	0.48954230	0.37454688
0.20614	1.05399665	0.63788640	0.48892210	0.51736086	0.39025792	0.46863938	0.40568826
0.21901	1.07109962	0.73806251	0.44787443	0.54786720	0.39362879	0.41709420	0.41229865
0.23267	0.96914850	0.79940697	0.37250638	0.58897768	0.40923839	0.31589172	0.42905403
0.24718	0.87047901	0.68955174	0.28353153	0.51045230	0.41363645	0.29013813	0.45179306
0.26261	1.15780949	0.69739646	0.24678679	0.41855394	0.45347180	0.30889303	0.46773316
0.27899	1.30284349	0.70028809	0.24247621	0.33265317	0.52188442	0.31468189	0.46233450
0.29640	1.22106035	0.66400111	0.23992279	0.35342691	0.48292208	0.35244725	0.46356647
0.31489	1.08082836	0.63372333	0.21461303	0.40341188	0.52983189	0.34885260	0.46852128
0.33453	0.98087625	0.59634587	0.15542575	0.48340284	0.39768903	0.35066677	0.44612070
0.35540	0.87278425	0.57447584	0.11072913	0.49821031	0.31179792	0.38008823	0.42360687
0.37758	0.88665595	0.60444002	0.09320642	0.44822331	0.29667598	0.42760460	0.41410338
0.40113	0.75913207	0.56518156	0.09141136	0.37514379	0.38965852	0.45777360	0.39827168
0.42616	0.67165556	0.48823514	0.11075475	0.30951140	0.44716048	0.48117110	0.39866297
0.45275	0.62177781	0.40769328	0.15716089	0.25297438	0.43356111	0.51808922	0.40929814
0.48099	0.77242371	0.40447901	0.17751574	0.22956700	0.37144964	0.50964343	0.42061834
0.51100	0.82297243	0.32802222	0.15814309	0.23623445	0.33449976	0.46148434	0.42320110
0.54288	0.93580874	0.24650486	0.13010348	0.27571909	0.32698719	0.40724841	0.41059784
0.57675	1.01272929	0.18564876	0.11571308	0.27320760	0.38866490	0.42566089	0.38757431
0.61274	1.12999462	0.14389690	0.11444345	0.25474008	0.42355373	0.50843618	0.42885072
0.65096	1.17070667	0.13124956	0.11471611	0.25558345	0.39767156	0.54235368	0.48523282
0.69158	1.14622655	0.14187743	0.12492277	0.24670012	0.34272117	0.49610227	0.45688911
0.73472	1.07009113	0.10511375	0.11255814	0.27774348	0.28943350	0.43535871	0.39186675
0.78056	0.90639279	0.08136871	0.10056610	0.29142745	0.24958032	0.41559941	0.32580789
0.82926	0.69265250	0.07059006	0.09586950	0.28803851	0.23071006	0.37678935	0.26445970
0.88100	0.48587774	0.06100265	0.10418630	0.27054589	0.22852576	0.31671116	0.21360774
0.93596	0.43678076	0.04933781	0.11030486	0.24102807	0.22688979	0.25011128	0.17061353
0.99435	0.40848630	0.04408094	0.12146306	0.20444082	0.24784960	0.21727719	0.13369429
1.05639	0.36168571	0.03942157	0.12393935	0.16896636	0.23229599	0.19860260	0.11137890
1.12230	0.32450080	0.03570336	0.11670324	0.14971943	0.22770734	0.20370741	0.09167727
1.19232	0.38320342	0.03104043	0.09811628	0.13391937	0.21158527	0.19736295	0.08010530
1.26670	0.42708205	0.02601804	0.08221134	0.11388317	0.18795896	0.15940137	0.06986790
1.34573	0.39718389	0.02136069	0.06415289	0.09831587	0.16435120	0.13419618	0.06039938
1.42969	0.34988232	0.02140112	0.04679256	0.08685074	0.15646608	0.10367376	0.05181488
1.51889	0.31136837	0.01776684	0.03334495	0.07817761	0.14219857	0.07794259	0.04423939
1.61365	0.26056143	0.01560354	0.02589949	0.06814445	0.12424443	0.06880106	0.03756194
1.71432	0.21080403	0.01385705	0.02114630	0.05889142	0.10478011	0.05776092	0.03177991
1.82127	0.17068823	0.01221051	0.01695539	0.04917757	0.08401780	0.04669531	0.02675112
1.93490	0.14153207	0.01068830	0.01312682	0.03886760	0.06609441	0.04165931	0.02240609
2.05562	0.12002399	0.00930261	0.01210707	0.03065561	0.05447428	0.03693446	0.01872928
2.18386	0.10283248	0.00806160	0.01100026	0.02364941	0.05698685	0.03227035	0.01695578
2.32011	0.08833144	0.00696841	0.01012055	0.01979058	0.05634933	0.03354179	0.01519592
2.46486	0.07575321	0.00601435	0.00893118	0.01731119	0.04895715	0.03175263	0.01353302
2.61864	0.06474652	0.00519336	0.00836797	0.01326382	0.04195715	0.02699674	0.01218862
2.78201	0.05486241	0.00448547	0.00790168	0.01218118	0.03832535	0.02137402	0.01088991
2.95558	0.05190297	0.00390642	0.00689055	0.01251037	0.03340810	0.02069151	0.00960967
3.13998	0.05238113	0.00347941	0.00612654	0.01237451	0.02871183	0.02061791	0.00852626
3.33587	0.04781266	0.00309944	0.00485252	0.01058306	0.02280063	0.01953297	0.00742021
3.54400	0.04264613	0.00291695	0.00464680	0.00970645	0.01677899	0.01762810	0.00658629
3.76510	0.03950335	0.00245501	0.00466906	0.00884509	0.01355303	0.01512714	0.00594807
4.00000	0.03642107	0.00218389	0.00419408	0.00768460	0.01106601	0.01245760	0.00504308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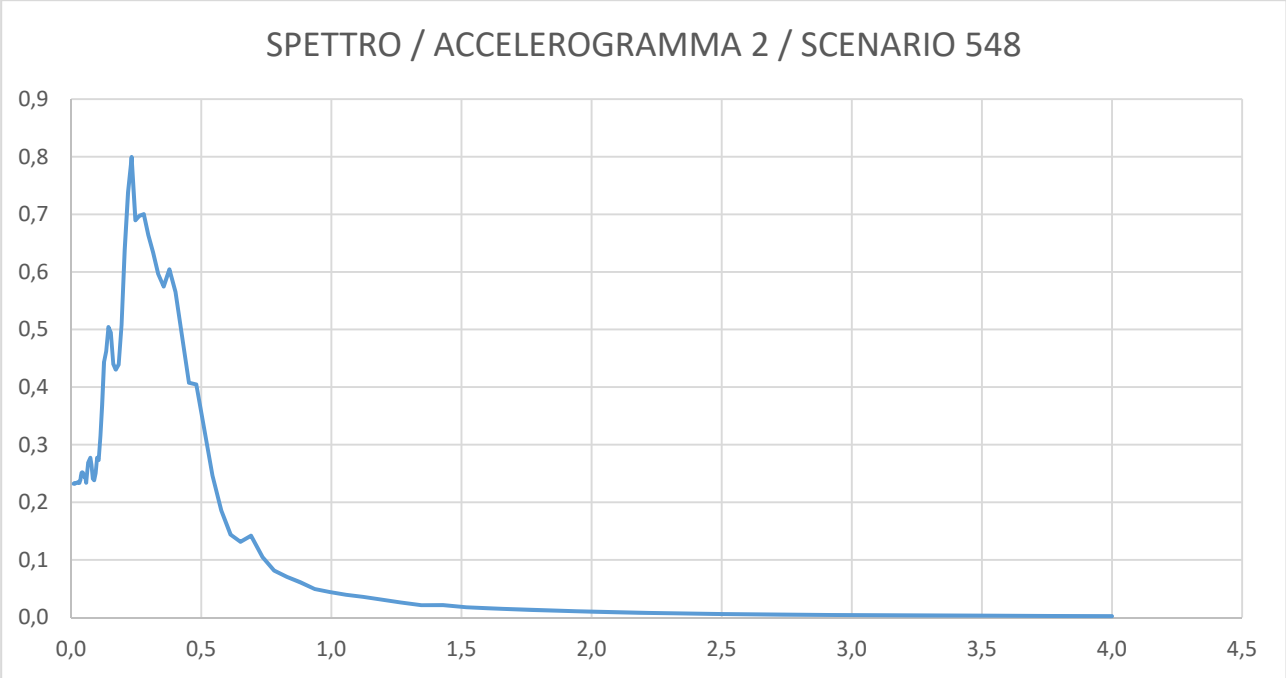
4,5


SPETTRO / ACCELEROGRAMMA 2 / SCENARIO 548
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0,3
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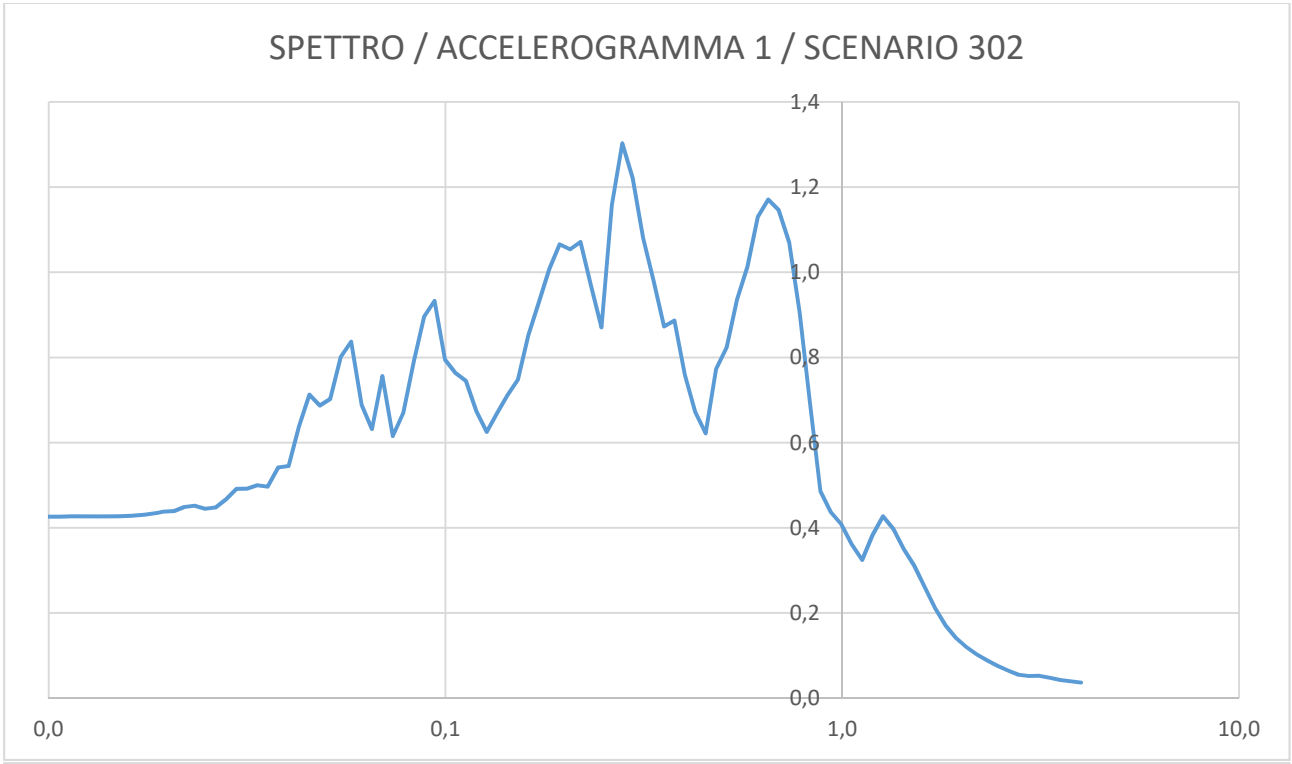
4,5


SPETTRO / ACCELEROGRAMMA 1 / SCENARIO 302
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0,2
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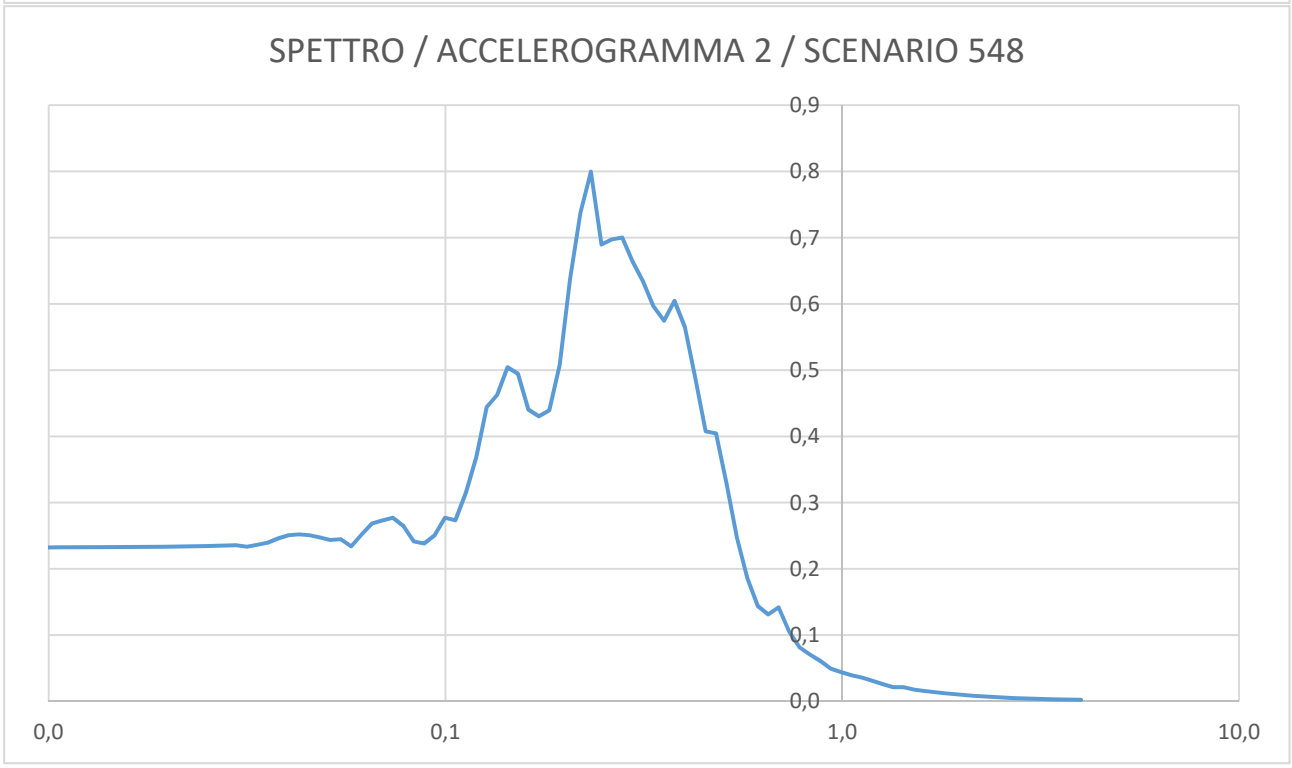
1,0
10,0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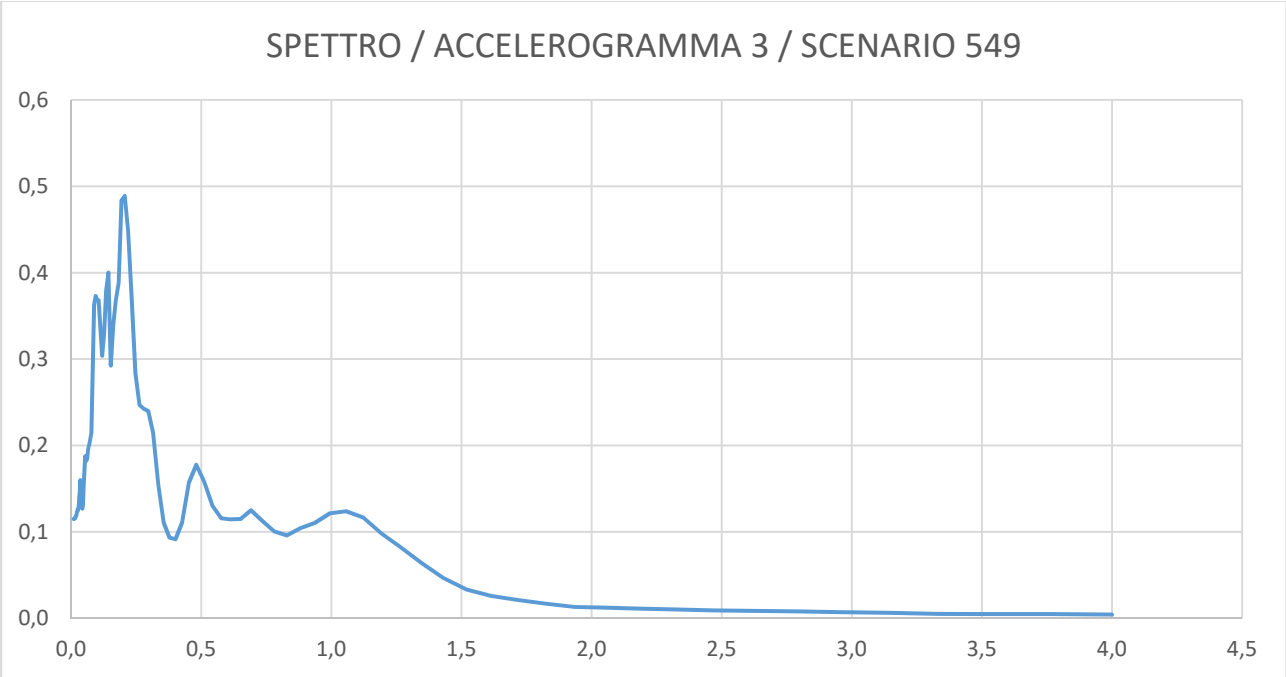
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2,5
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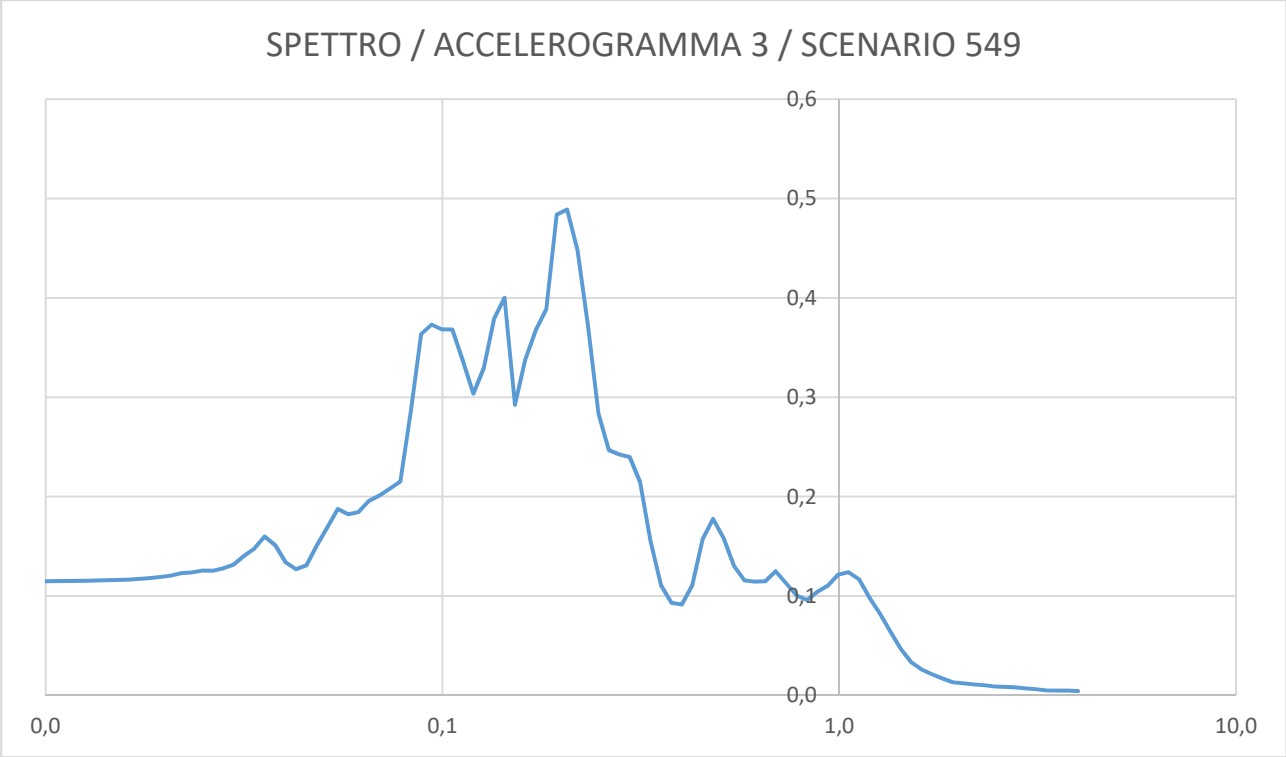
4,5


SPETTRO / ACCELEROGRAMMA 3 / SCENARIO 549
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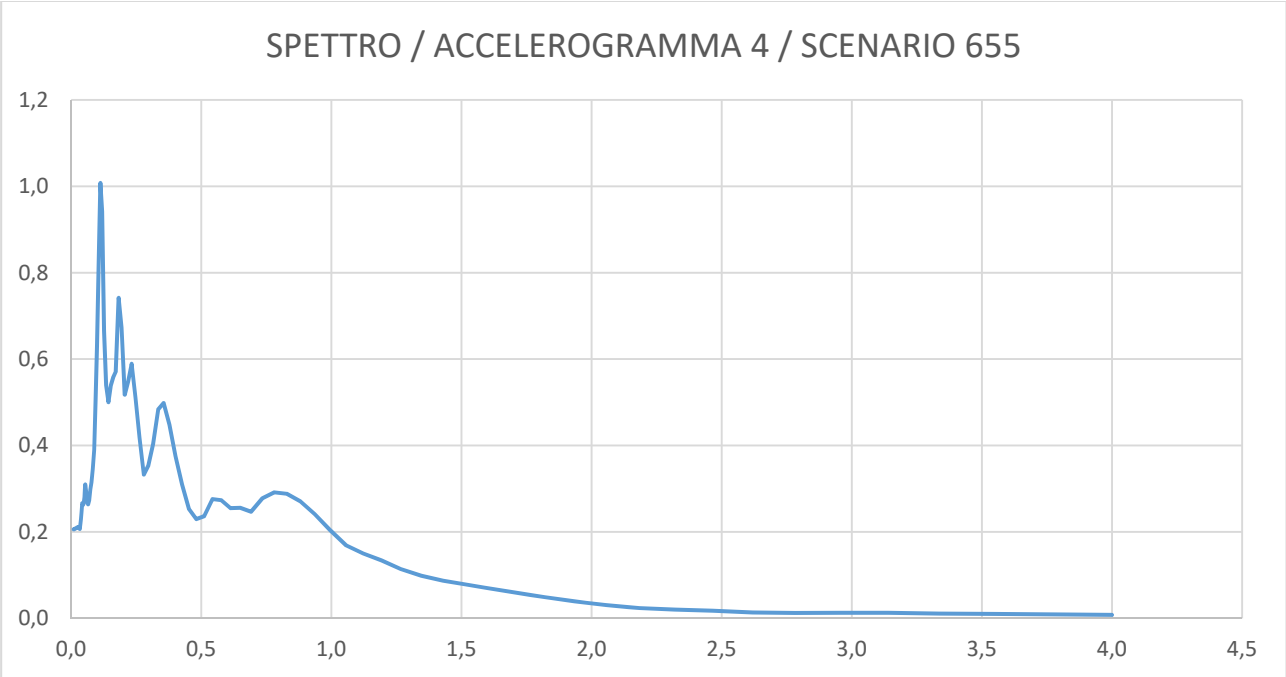
SPETTRO / ACCELEROGRAMMA 4 / SCENARIO 655
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0,6
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0,5
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3,0
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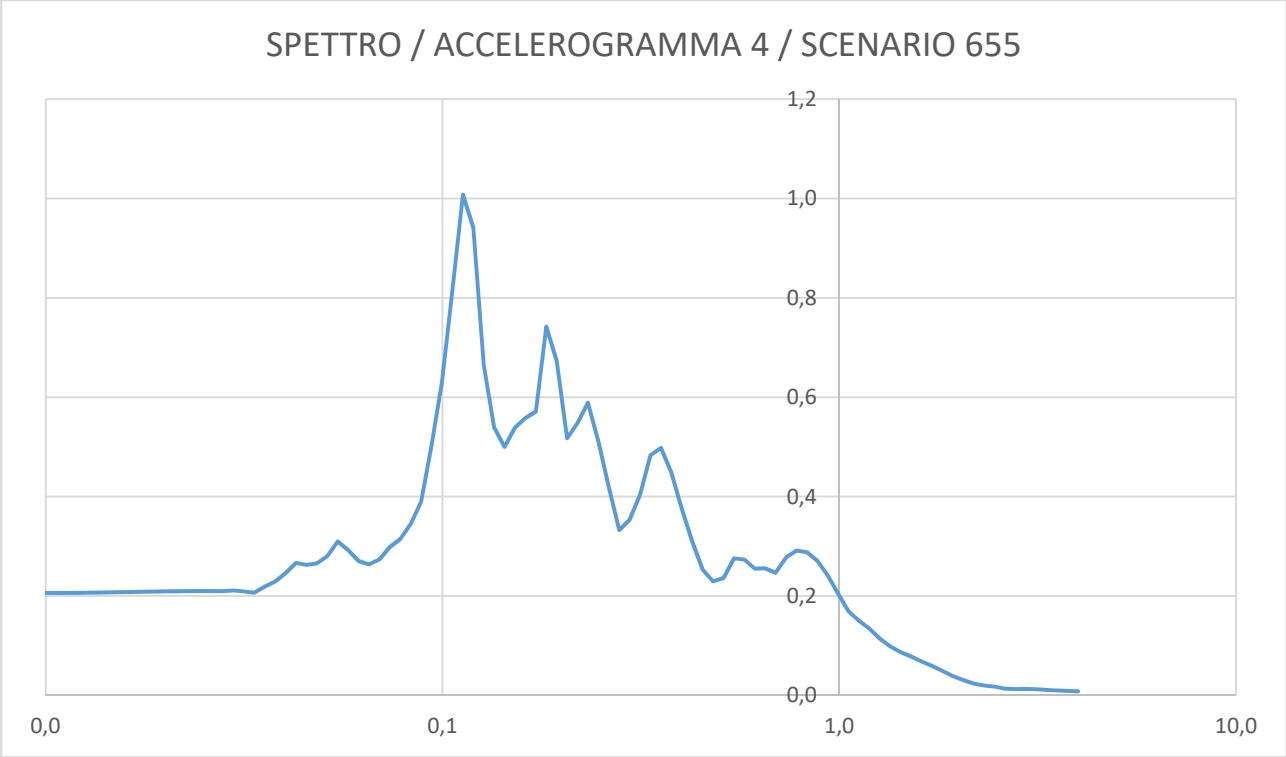
4,5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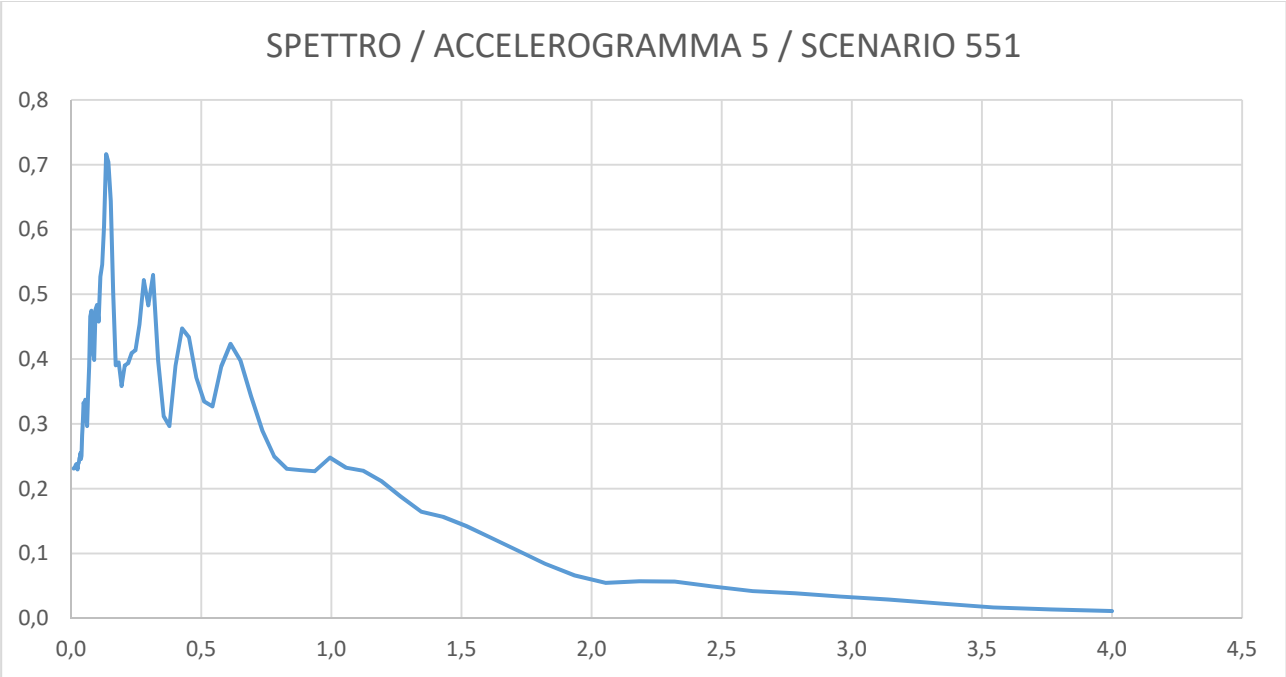
1,0
10,0


SPETTRO / ACCELEROGRAMMA 5 / SCENARIO 551
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0,7
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0,3
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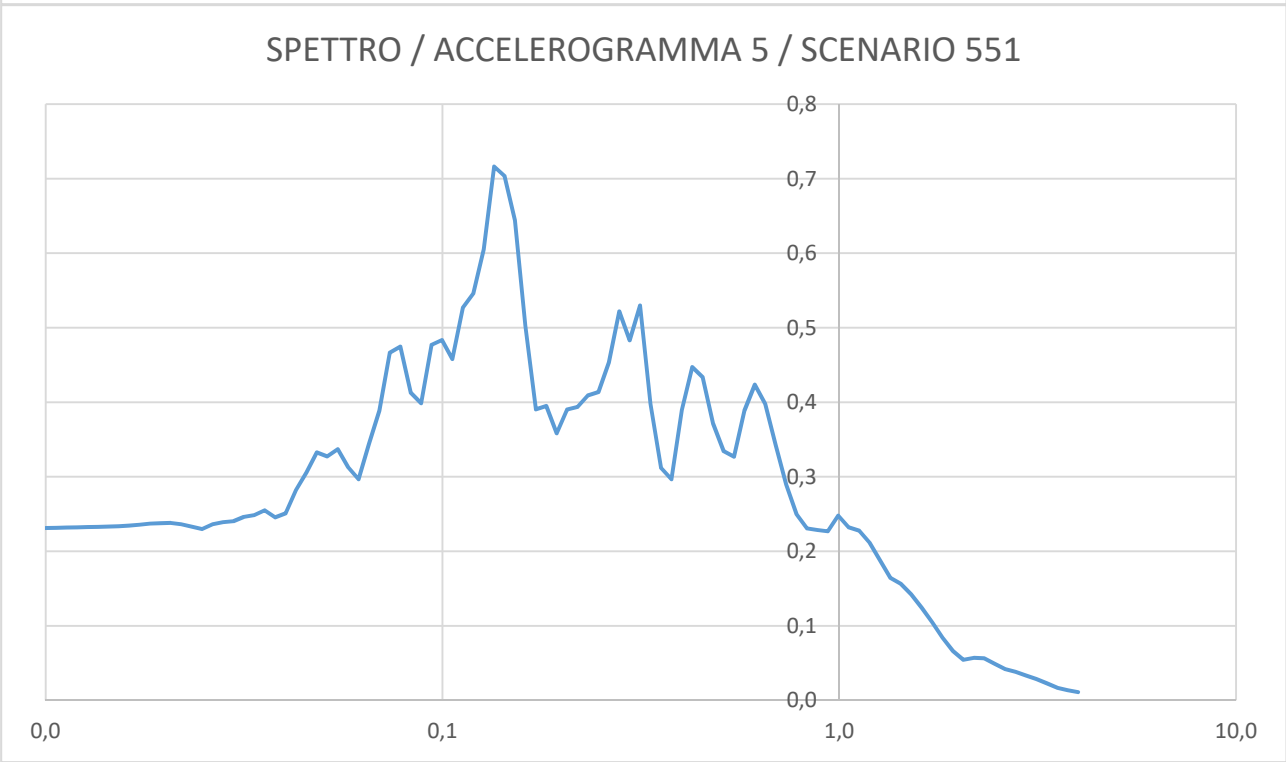
4,5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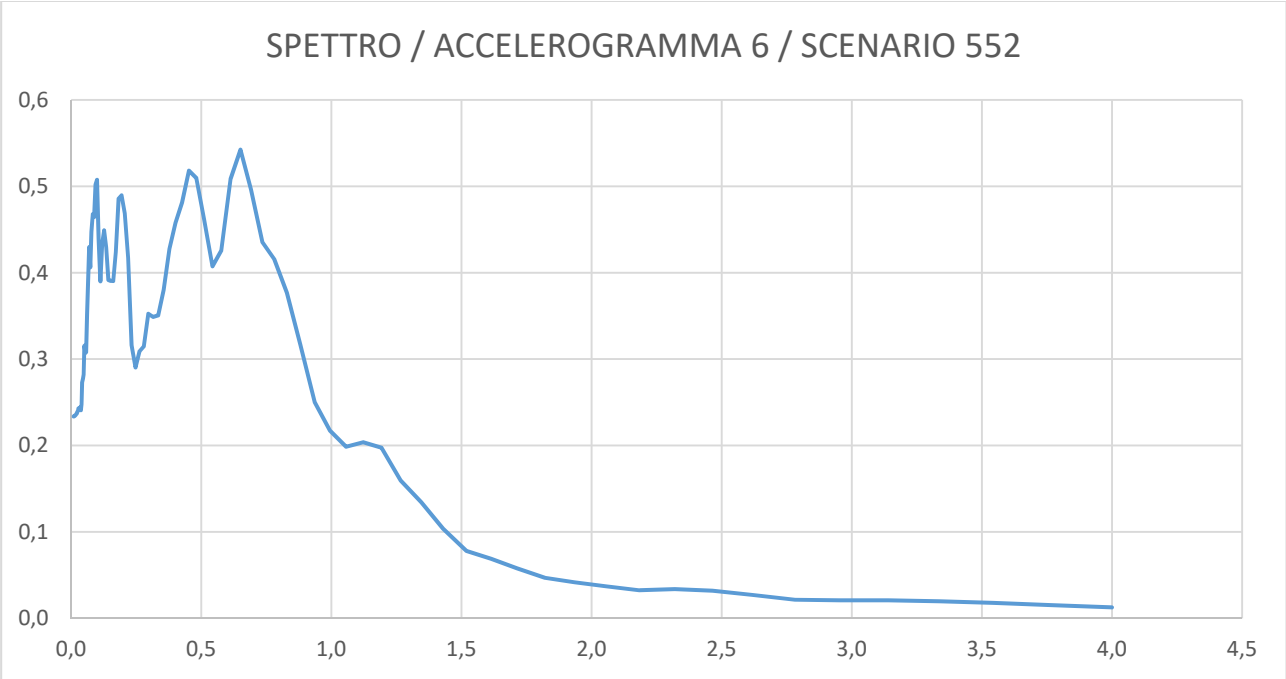
SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 552
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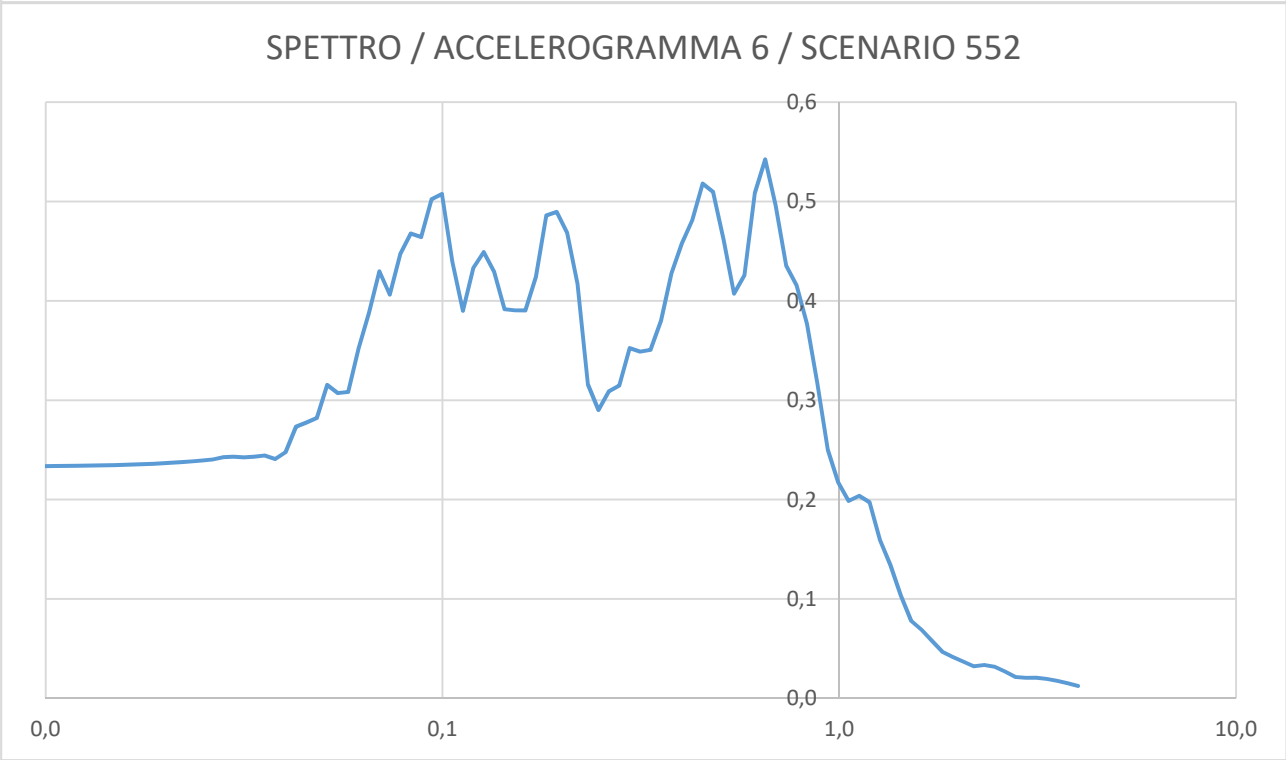
4,5


SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 552
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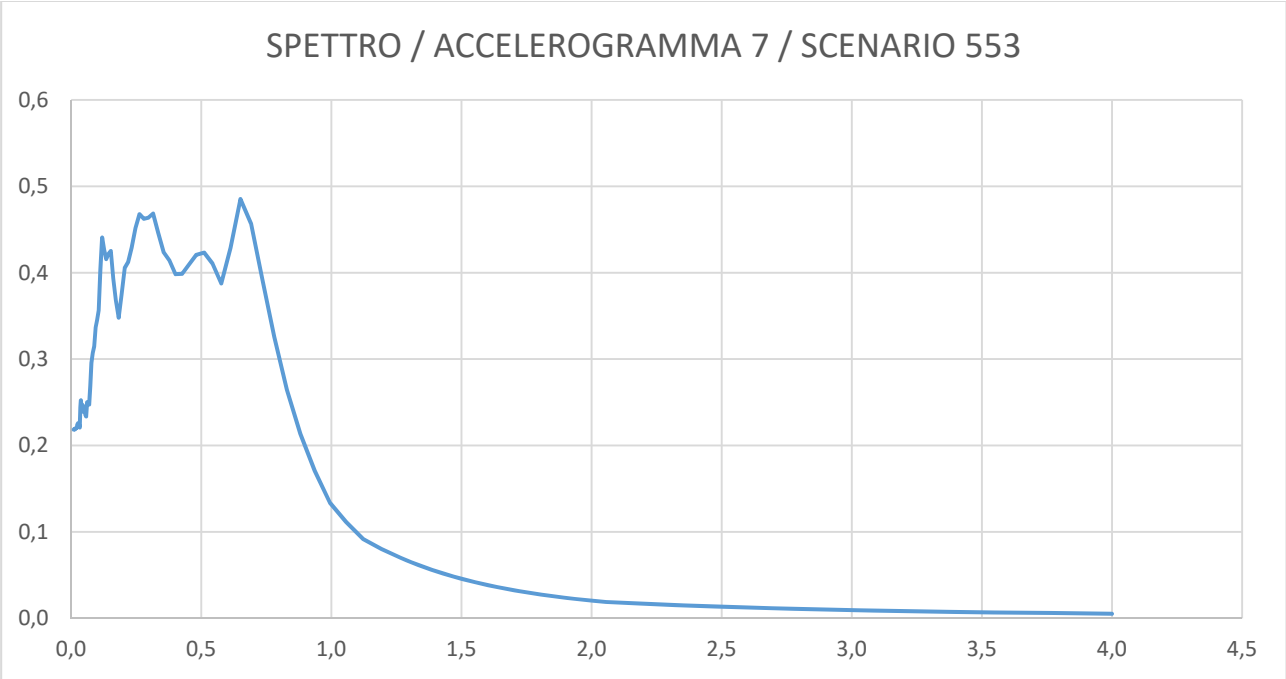
10,0


SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 553
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0,4
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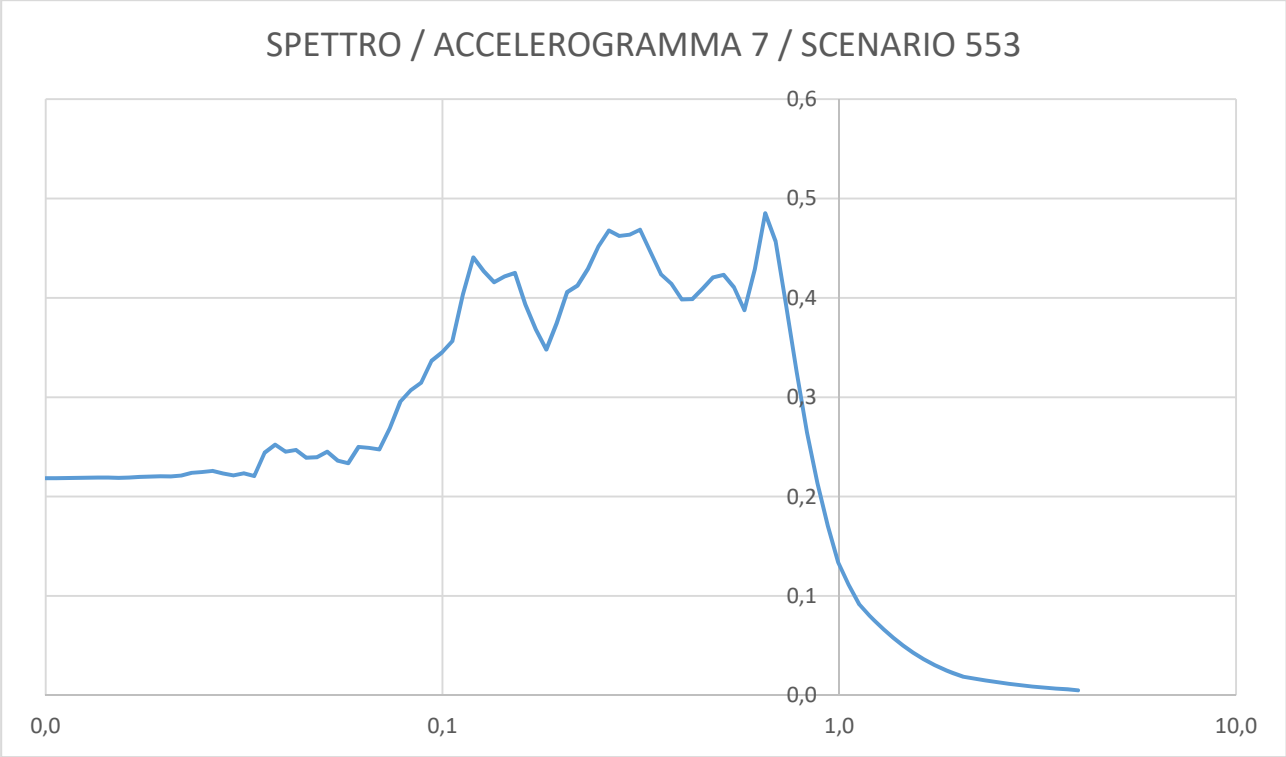
4,5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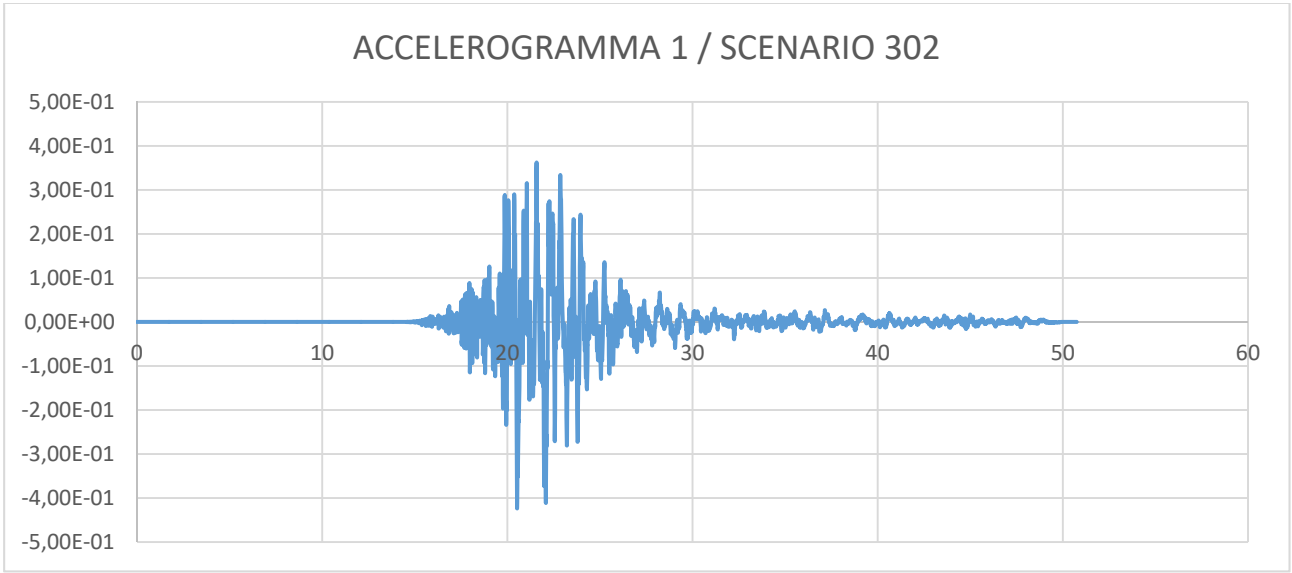
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3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
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-3,00E-01
-4,00E-01
-5,00E-01
0
10
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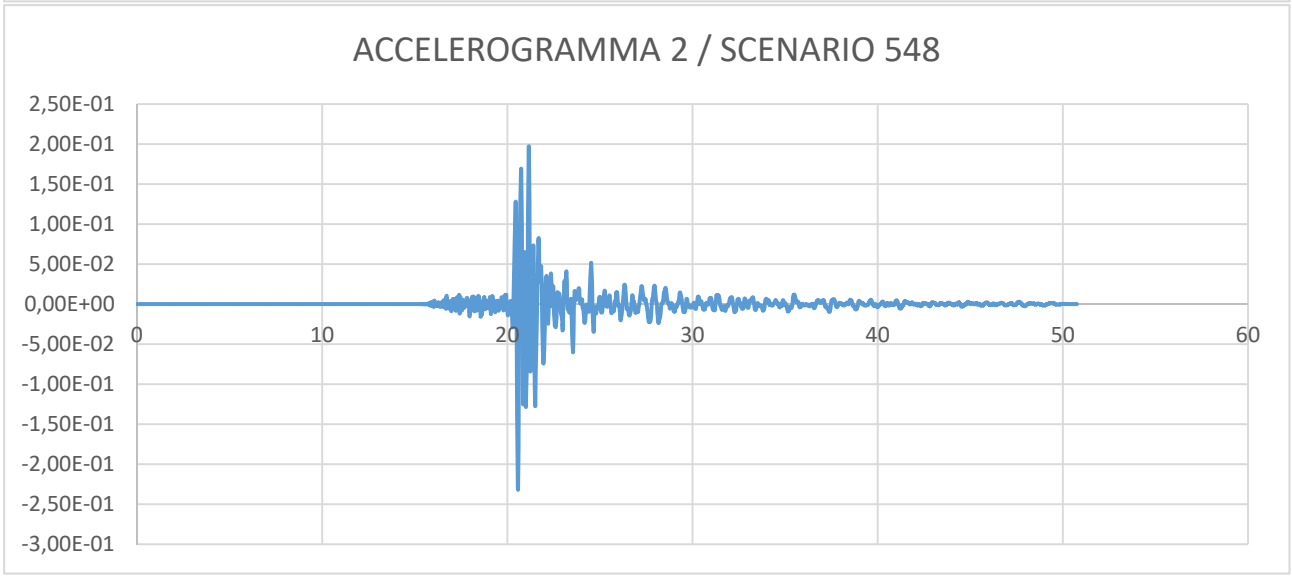
30
40
50
60


ACCELEROGRAMMA 2 / SCENARIO 548
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0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
-3,00E-01
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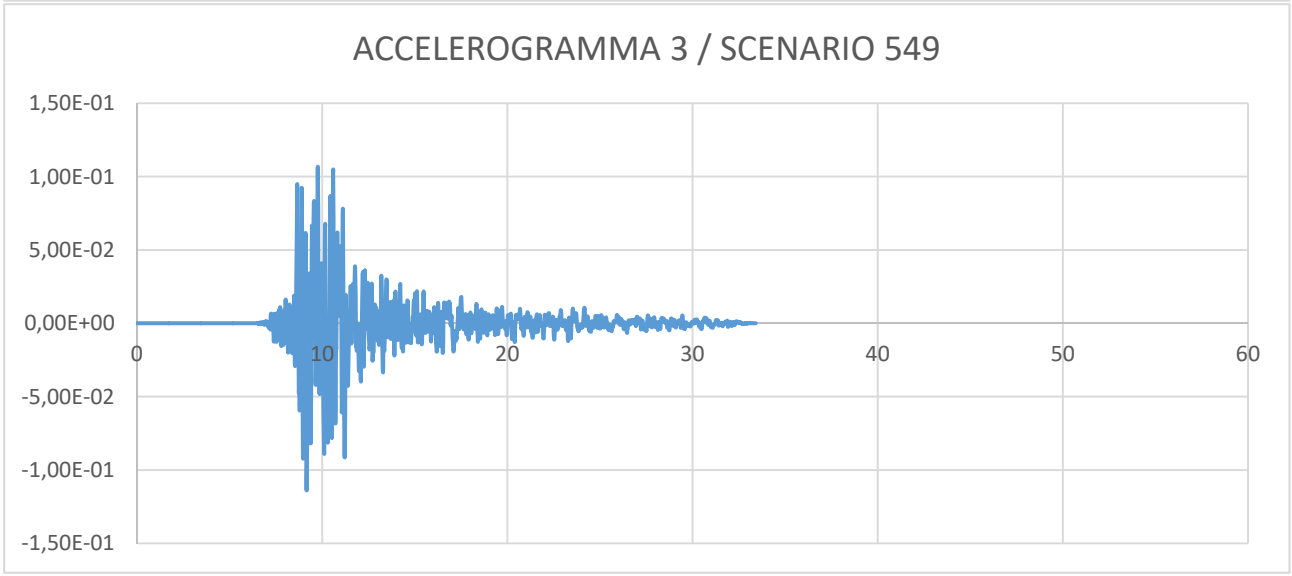
30
40
50
60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-1,50E-01
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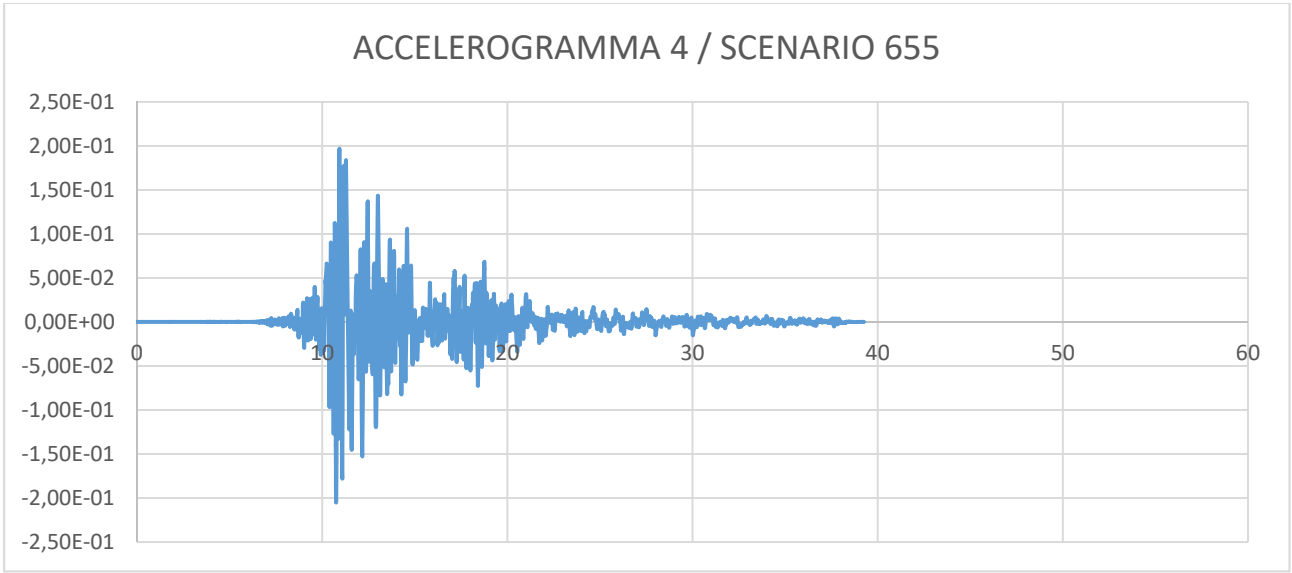
30
40
50
60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-5,00E-02
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-2,50E-01
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30
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50
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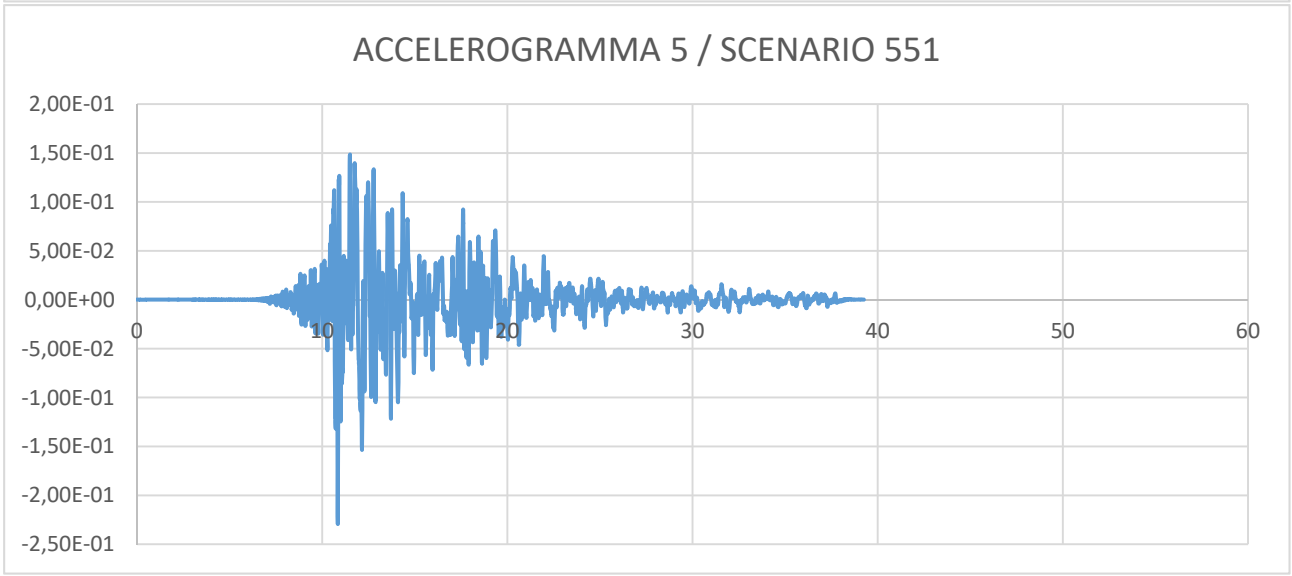
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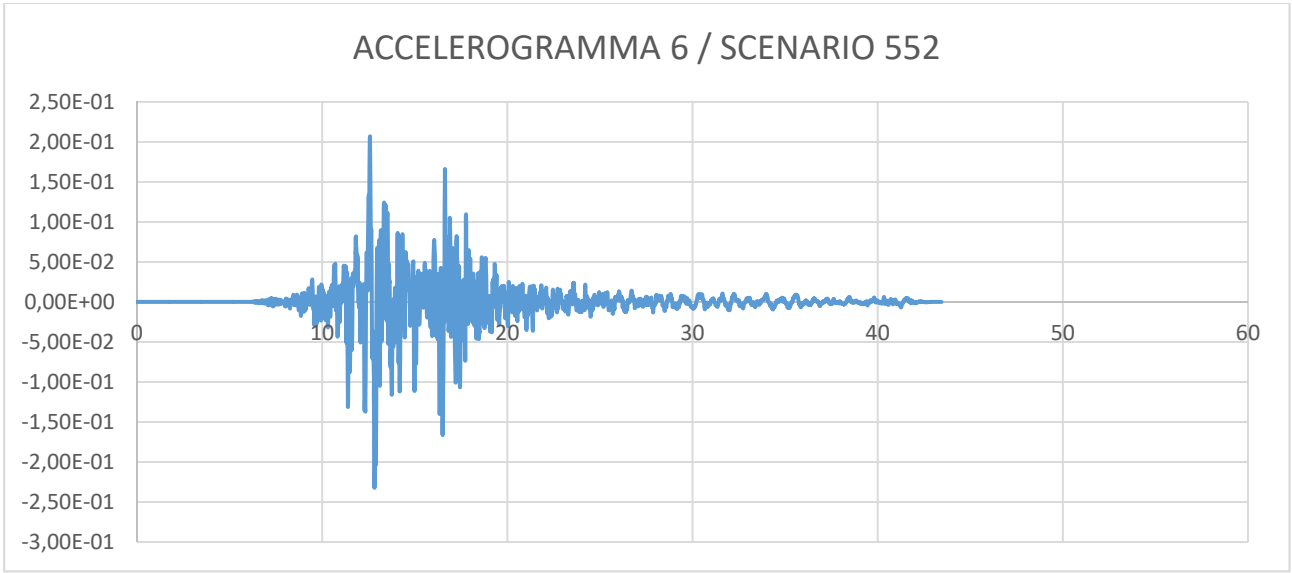
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1,00E-01
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0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
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-2,50E-01
-3,00E-01
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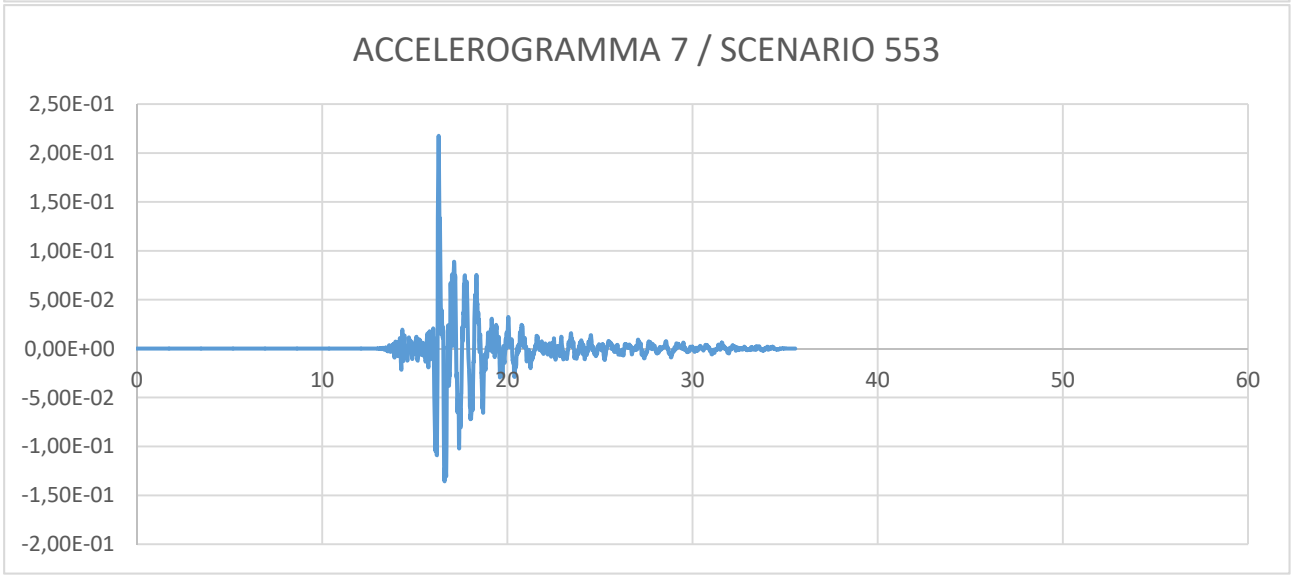
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0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
0
10
20
30
40
50
60

7. MOPS 2010

FA 0.1-0.5	FA 0.4-0.8	FA 0.7-1.1
1.41	1.29	1.21

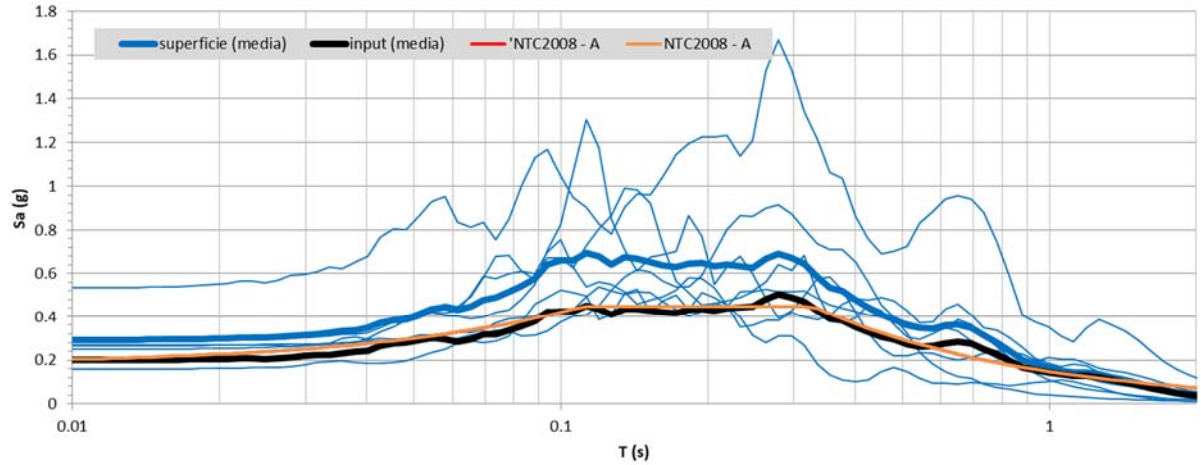
FA 0.1-0.5		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.39	1.41	1.44
FA 0.4-0.8		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.26	1.29	1.33
FA 0.7-1.1		
$e^{m_{ln}-s_{ln}}$	$e^{m_{ln}}$	$e^{m_{ln}+s_{ln}}$
1.16	1.21	1.26

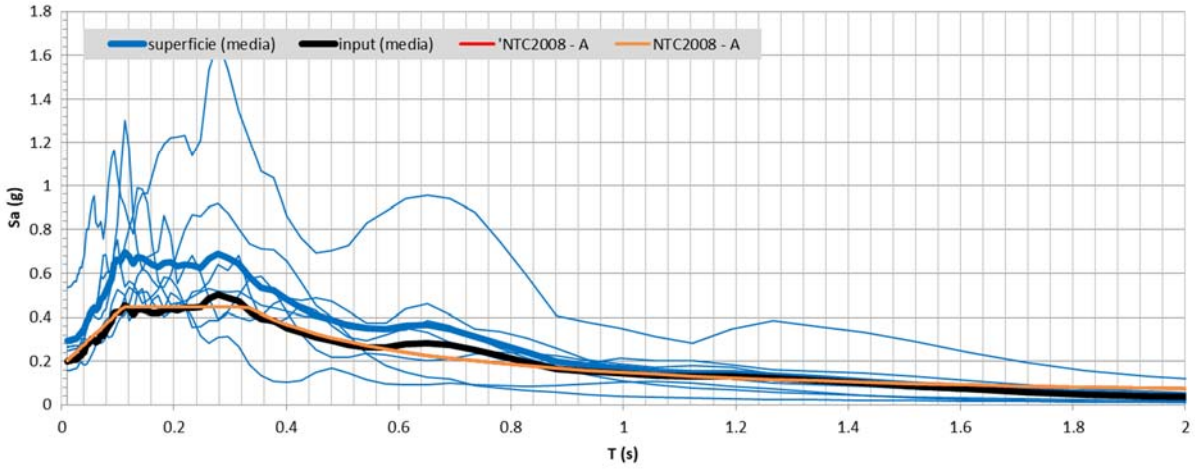
$$m_{ln} = \frac{1}{7}\sum_{i=1}^{7} \ln(FA_i)$$

$$FA_{rif} = e^{m_{ln}}$$

$$s_{ln} = \sqrt{\frac{1}{6}\sum_{i=1}^{7} [\ln(FA_i) - m_{ln}]^2}$$

$$e^{m_{ln}-s_{ln}} \quad e^{m_{ln}+s_{ln}}$$





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0.01199	0.53877835	0.26354554	0.16117719	0.28221312	0.28172831	0.23111825	0.24984091
0.01274	0.53887067	0.26364456	0.16162217	0.28278048	0.28220056	0.23157589	0.25013087
0.01353	0.54067477	0.26375769	0.16221363	0.28342129	0.28278948	0.23163109	0.25039891
0.01438	0.54393049	0.26389204	0.16292197	0.28417666	0.28340886	0.23221061	0.25083158
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0.01832	0.55278167	0.26457606	0.16781728	0.28856897	0.28744572	0.23571702	0.25230631
0.01946	0.56369689	0.26480487	0.16943128	0.29000199	0.28669822	0.23726750	0.25296187
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0.02972	0.60225824	0.26795801	0.18778881	0.32170805	0.30232858	0.25414932	0.25863453
0.03158	0.63620653	0.26908891	0.19579538	0.33629410	0.30901556	0.24895411	0.25966313
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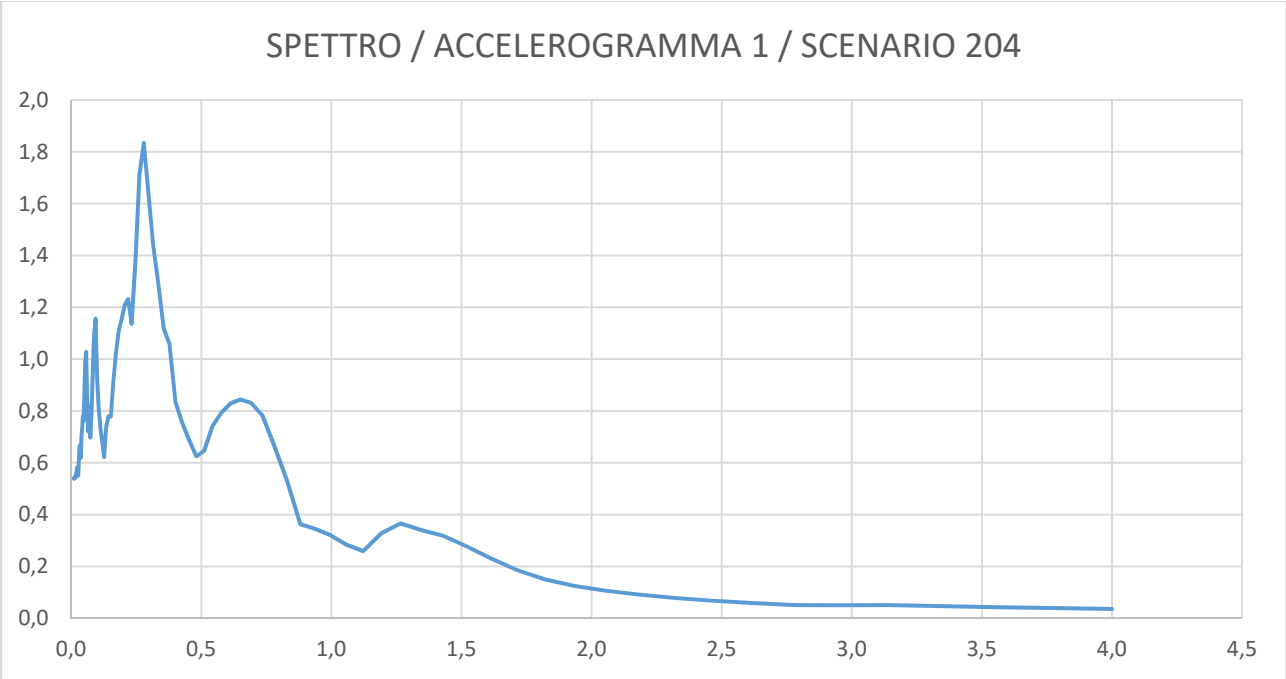
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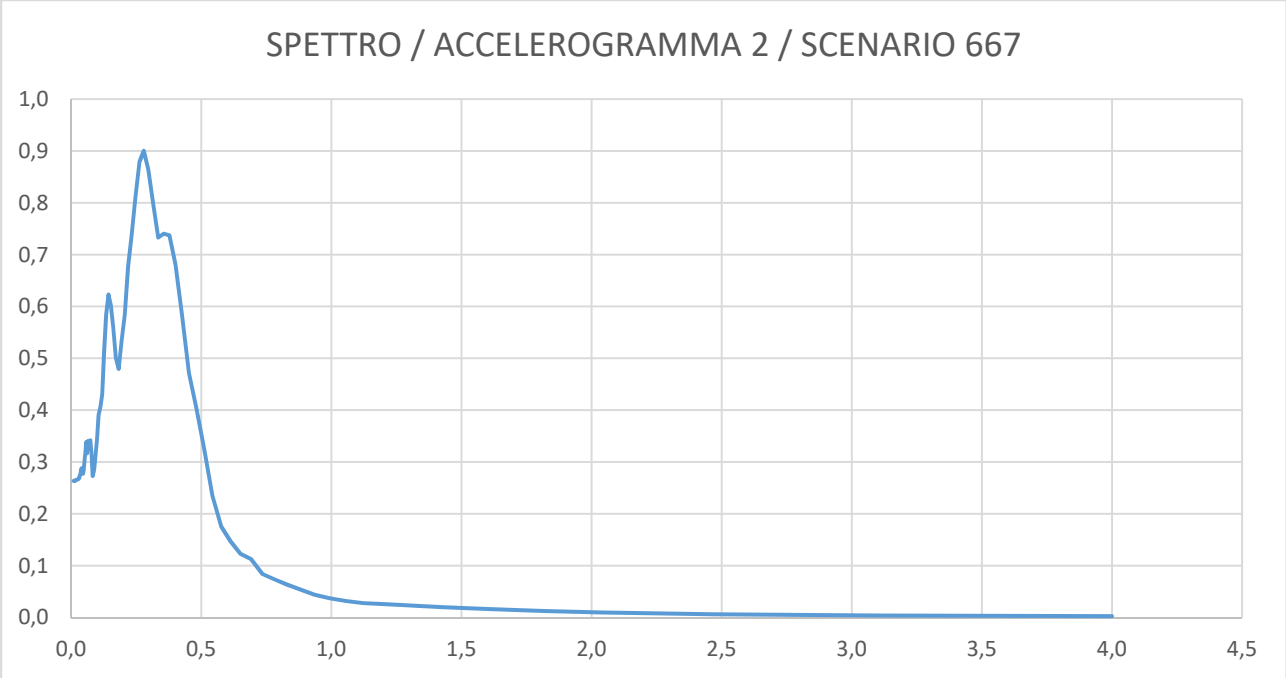
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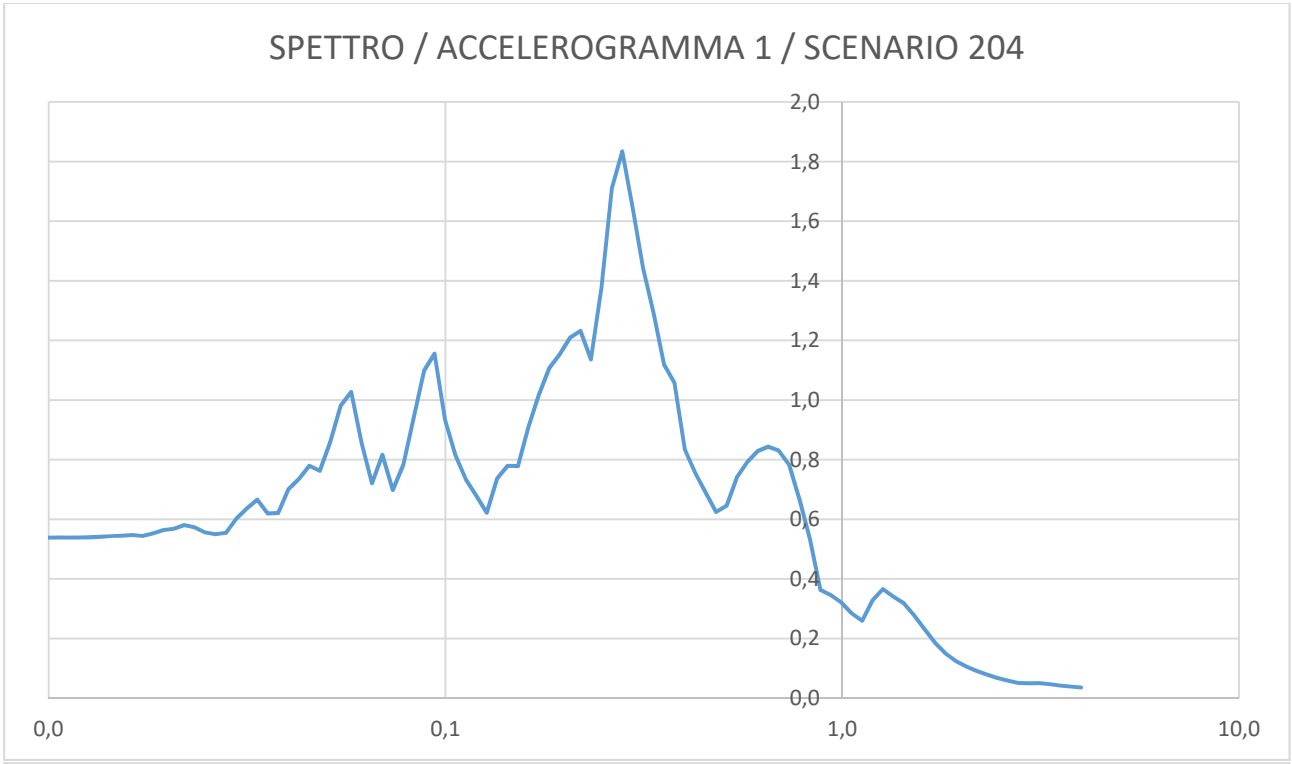
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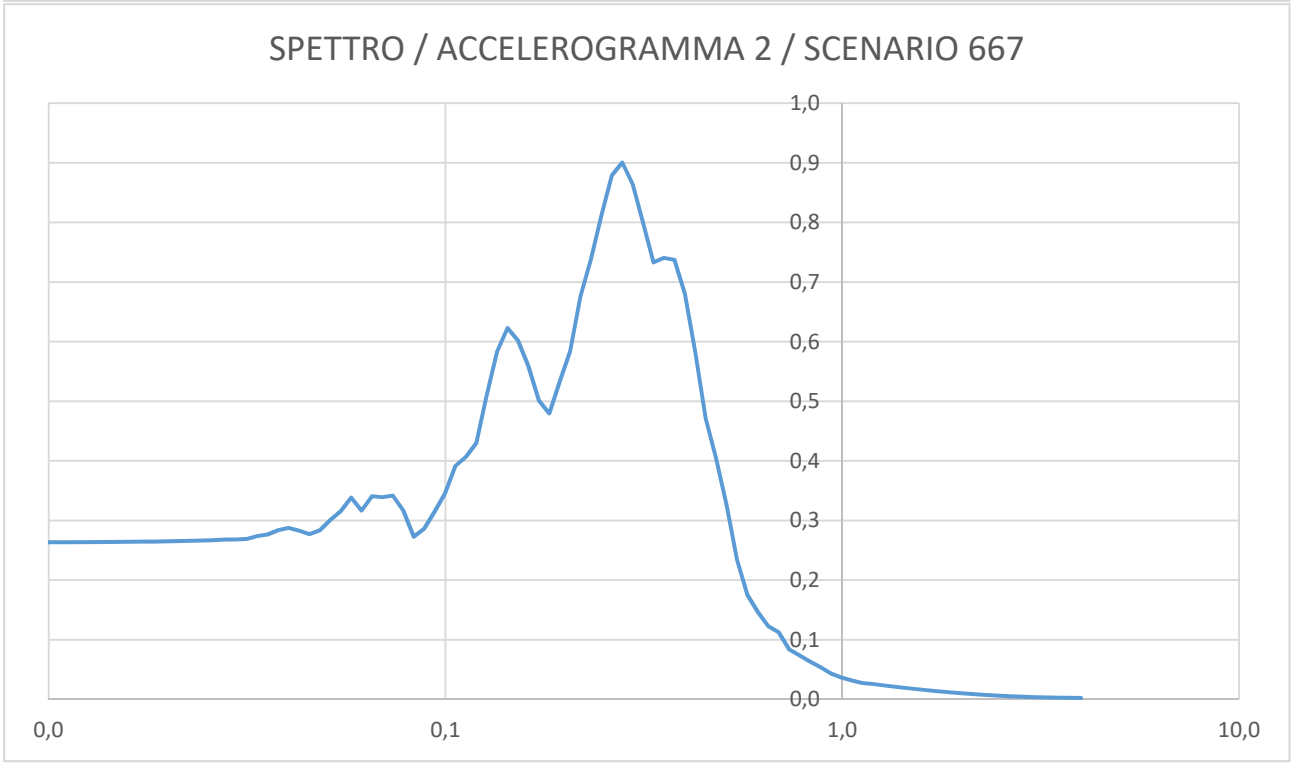
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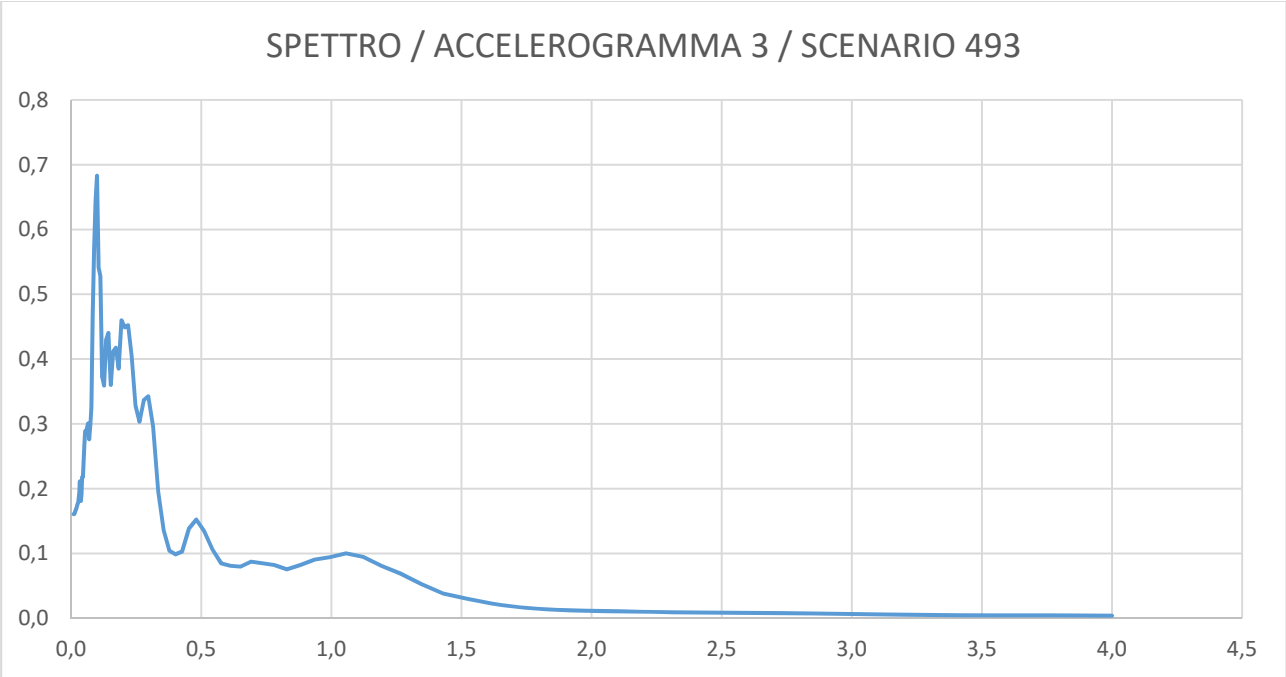
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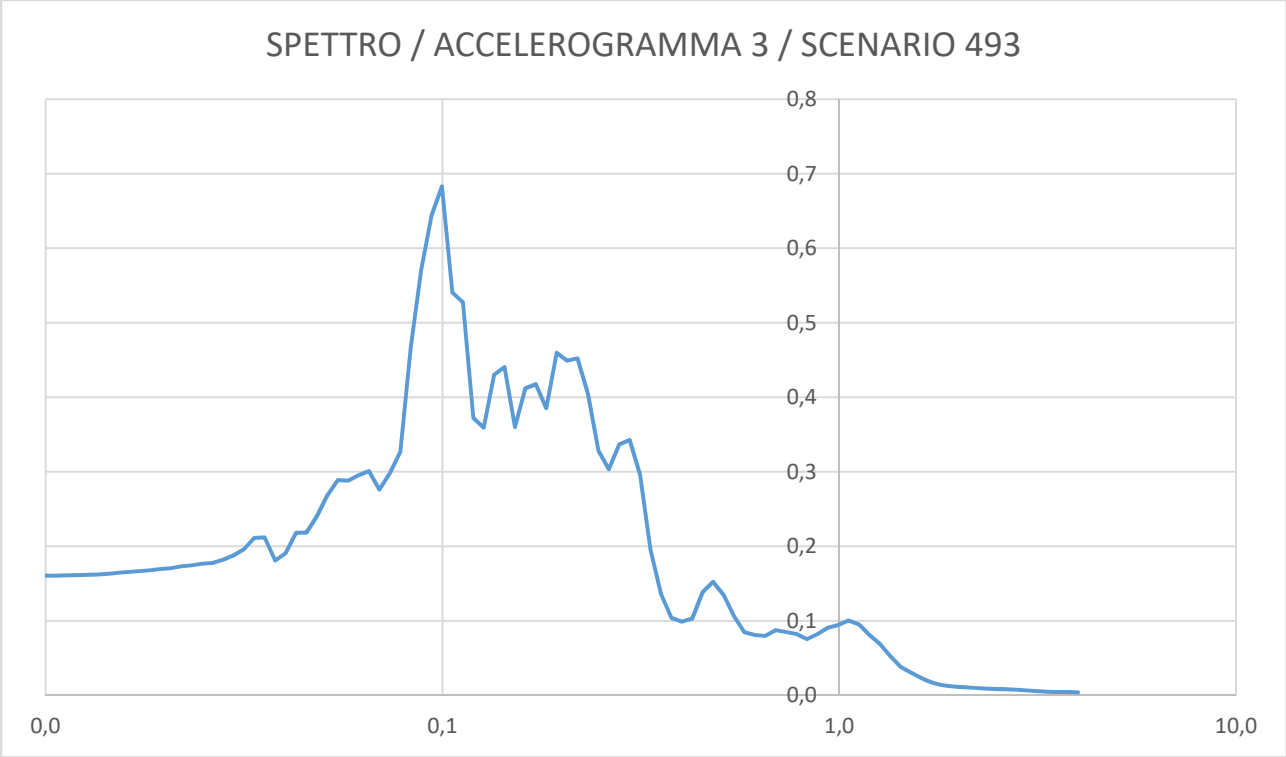
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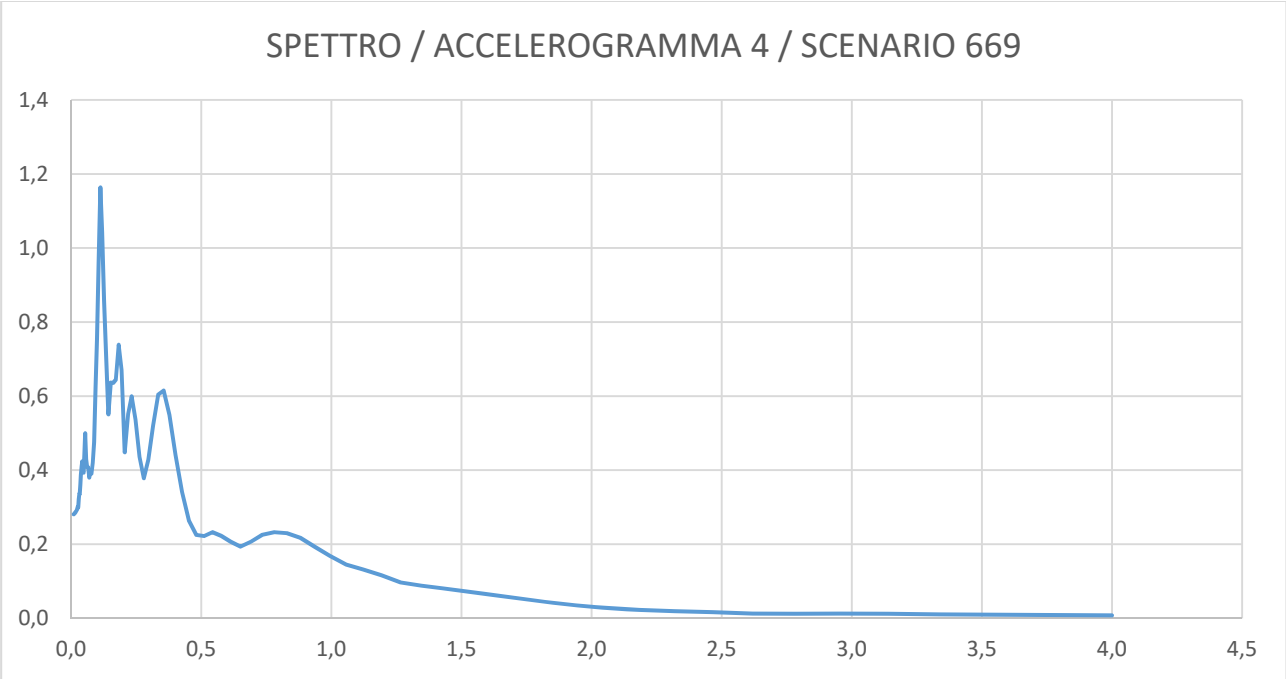
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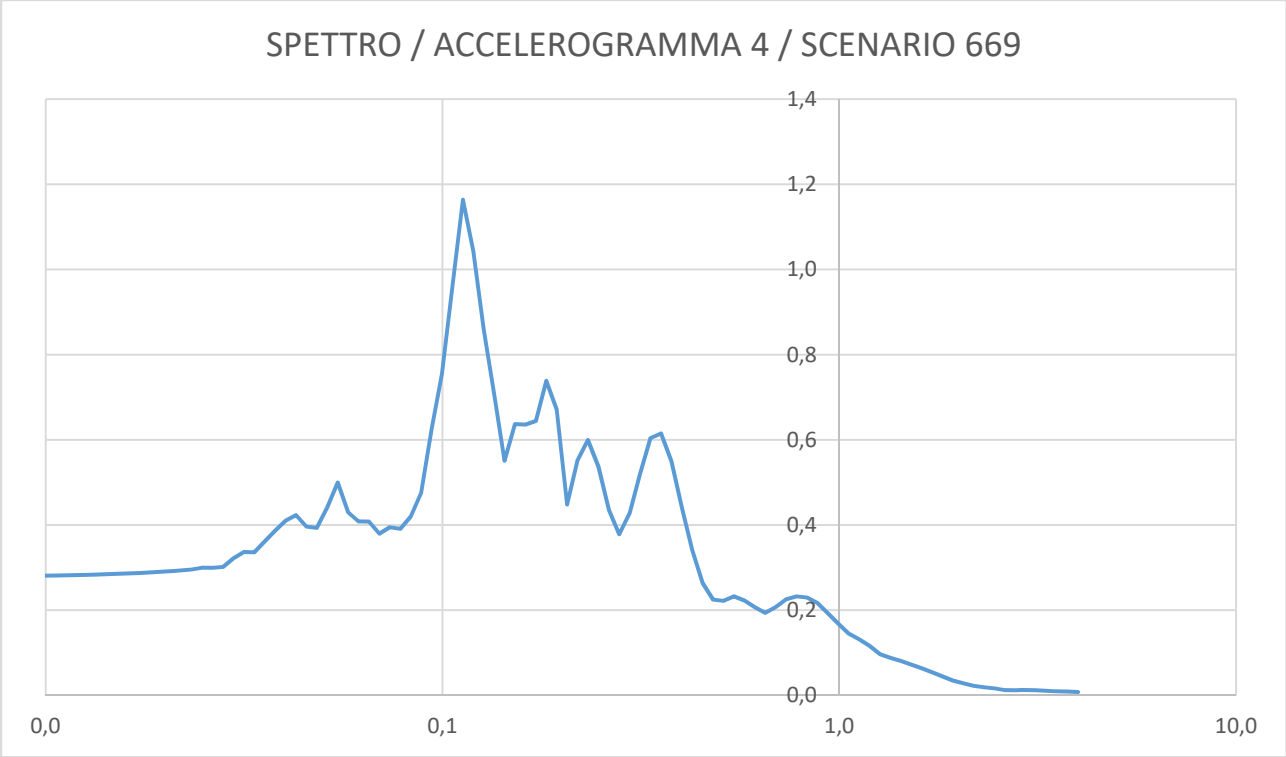
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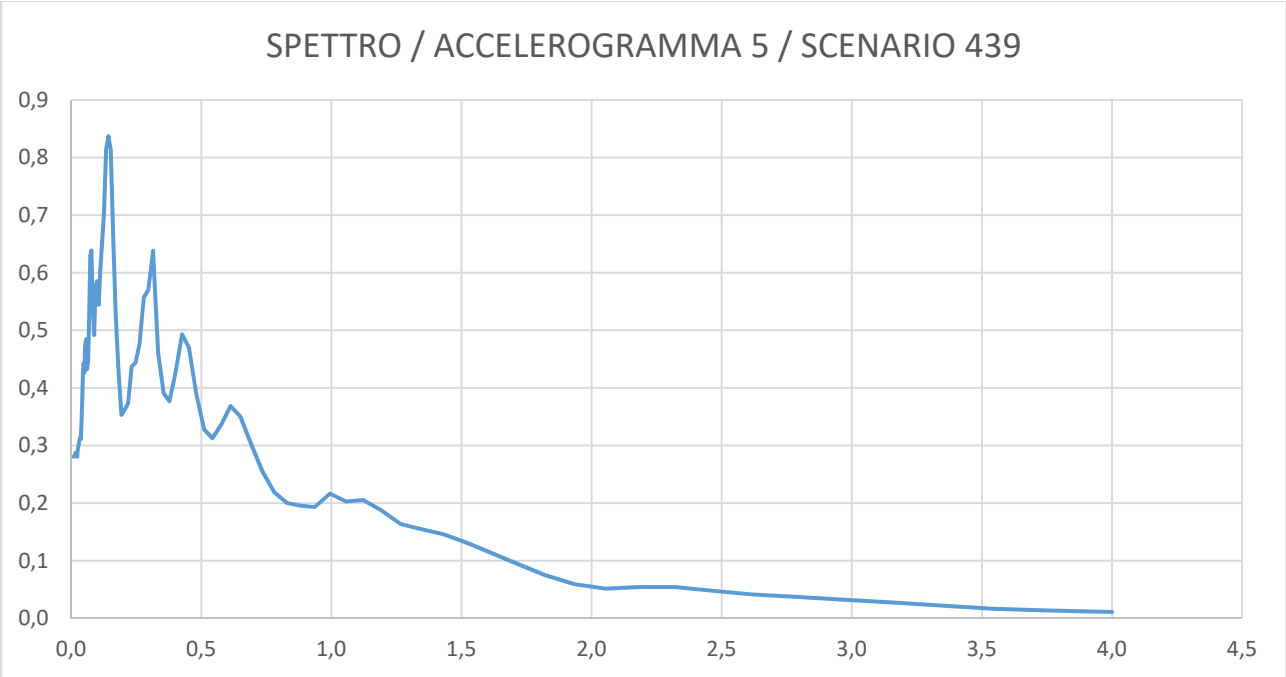
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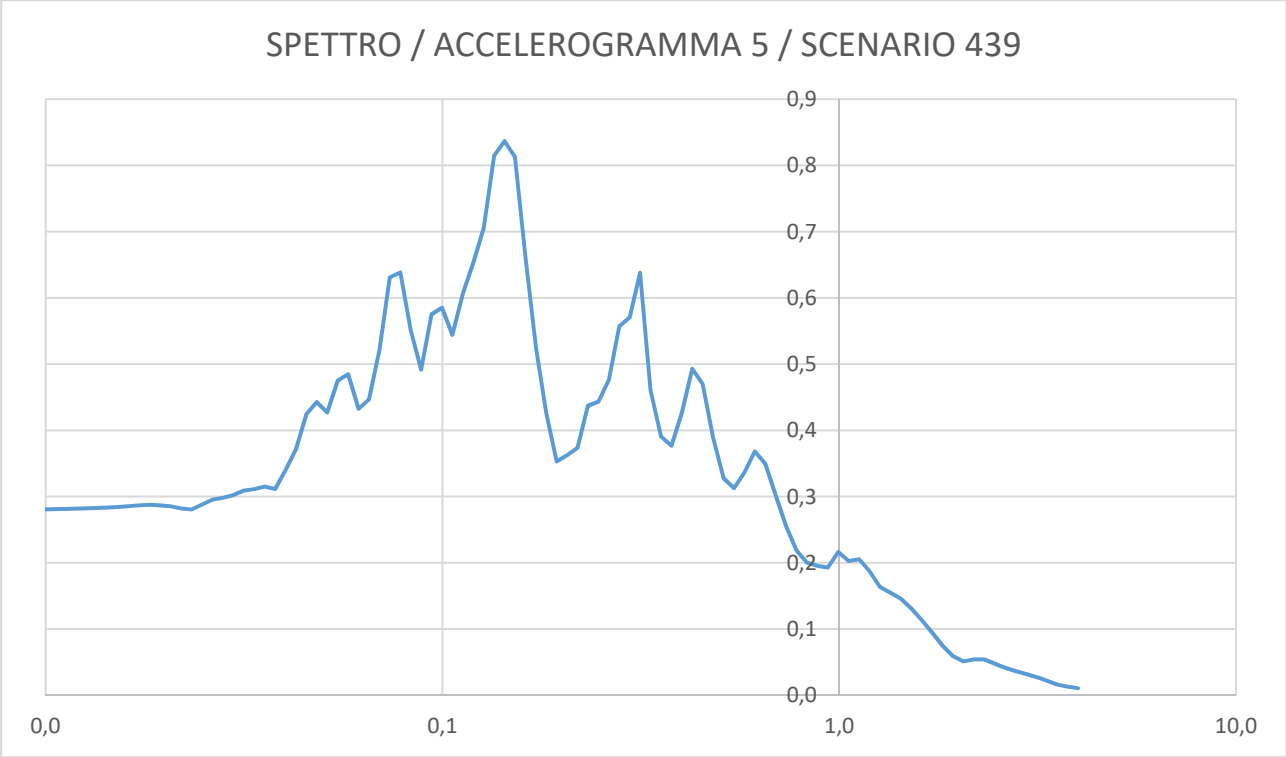
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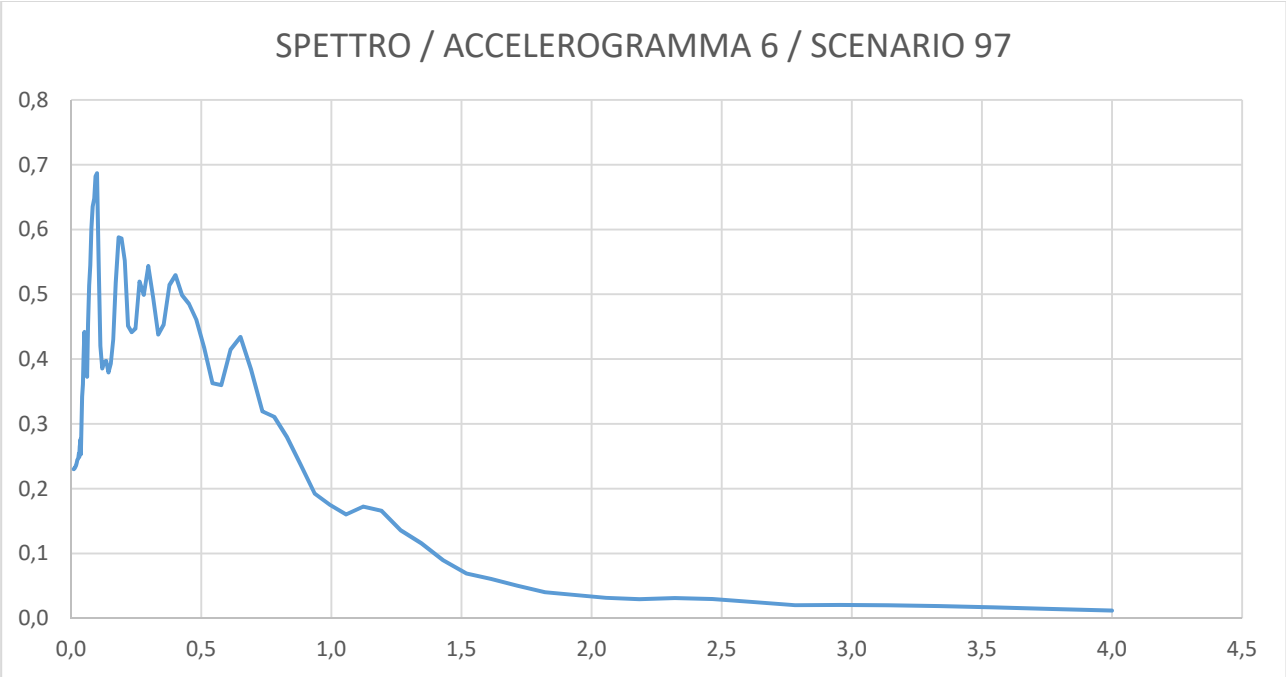
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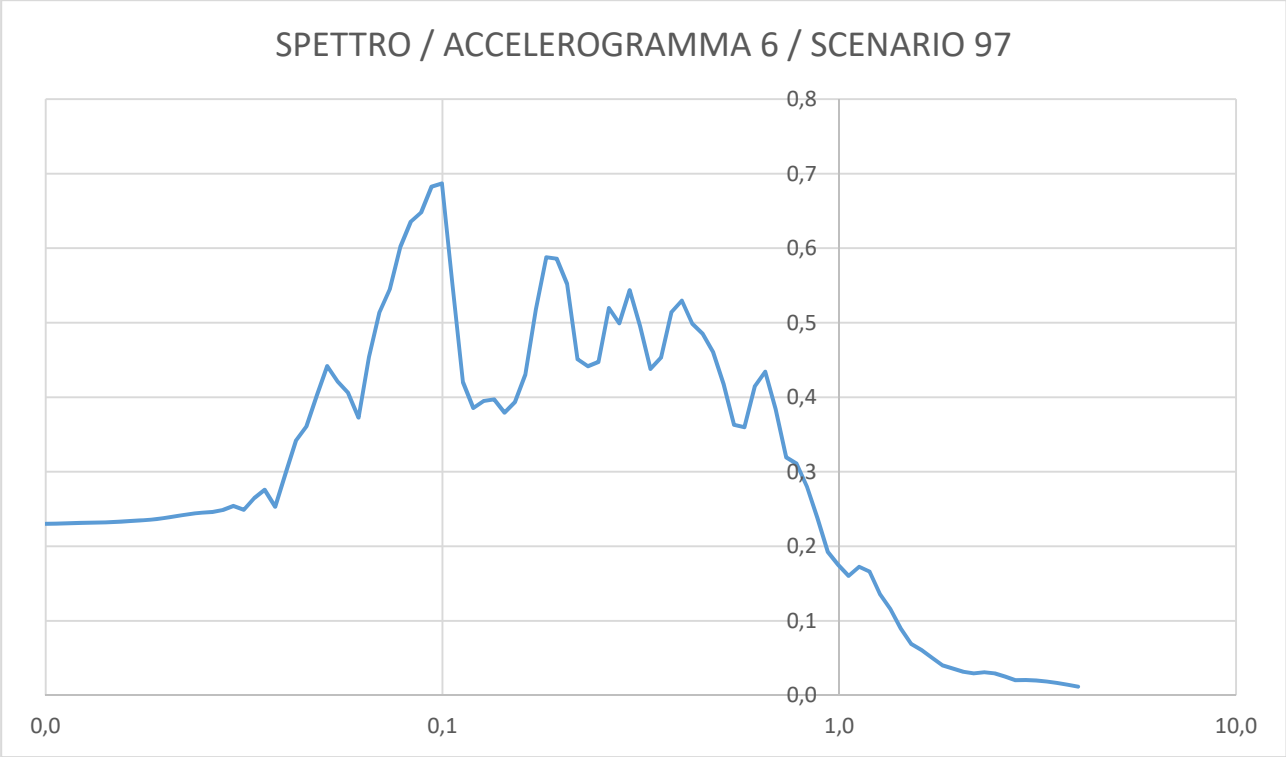
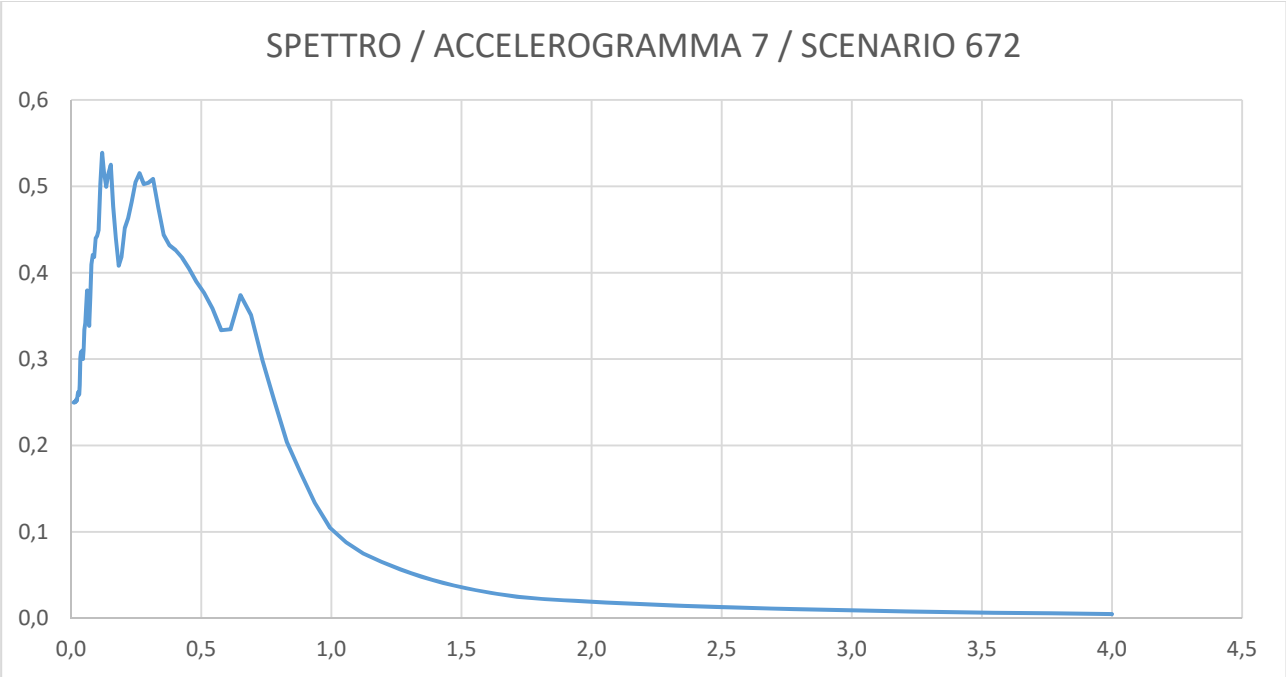
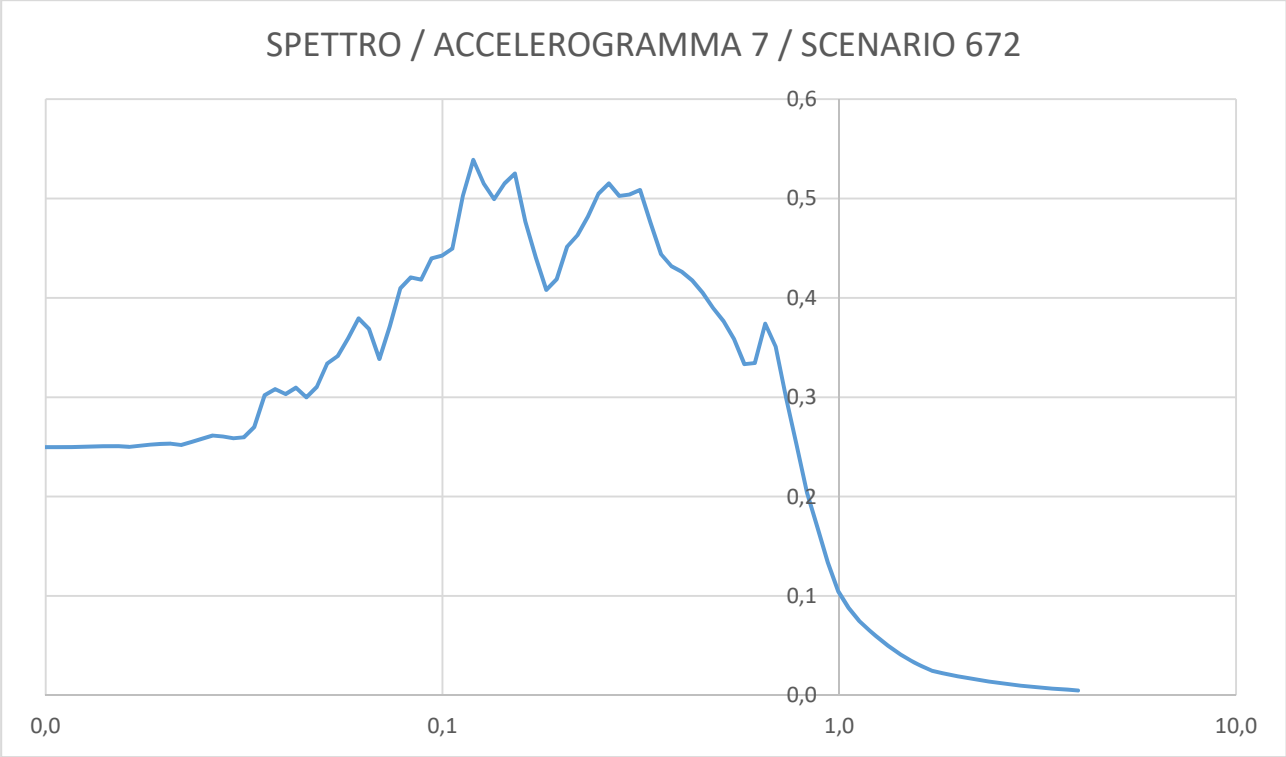
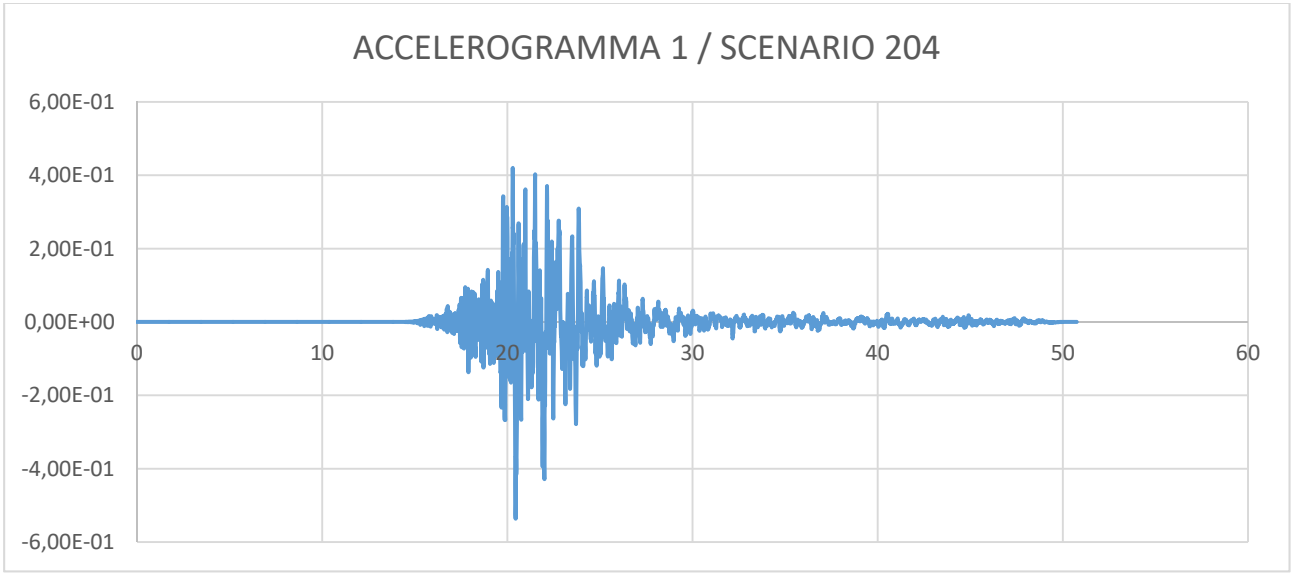
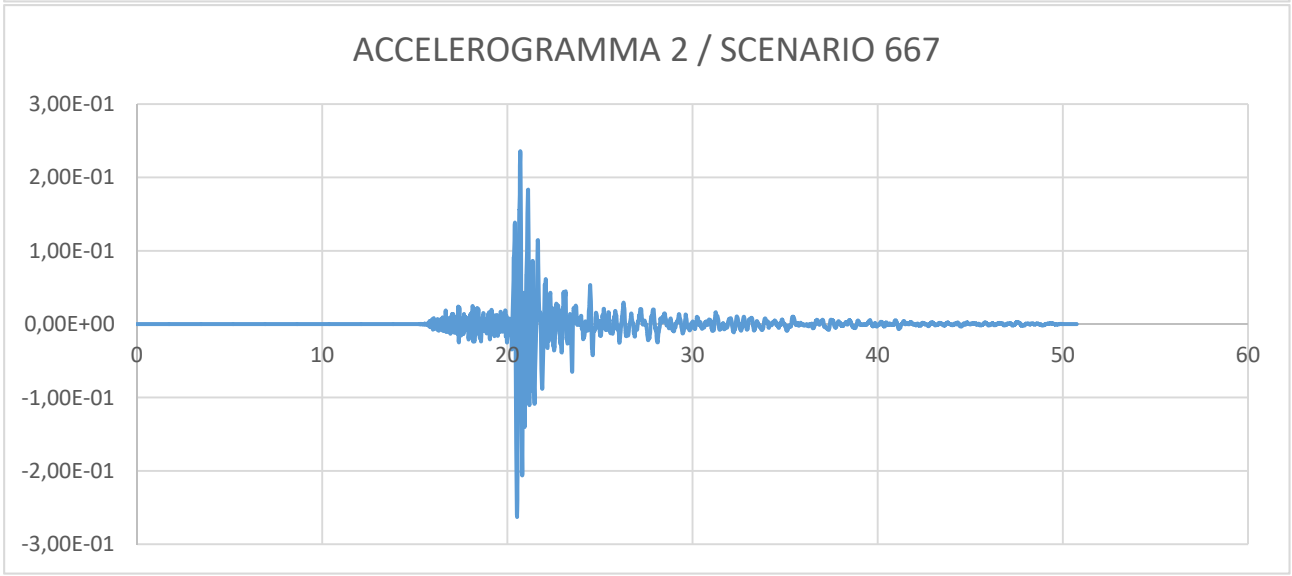
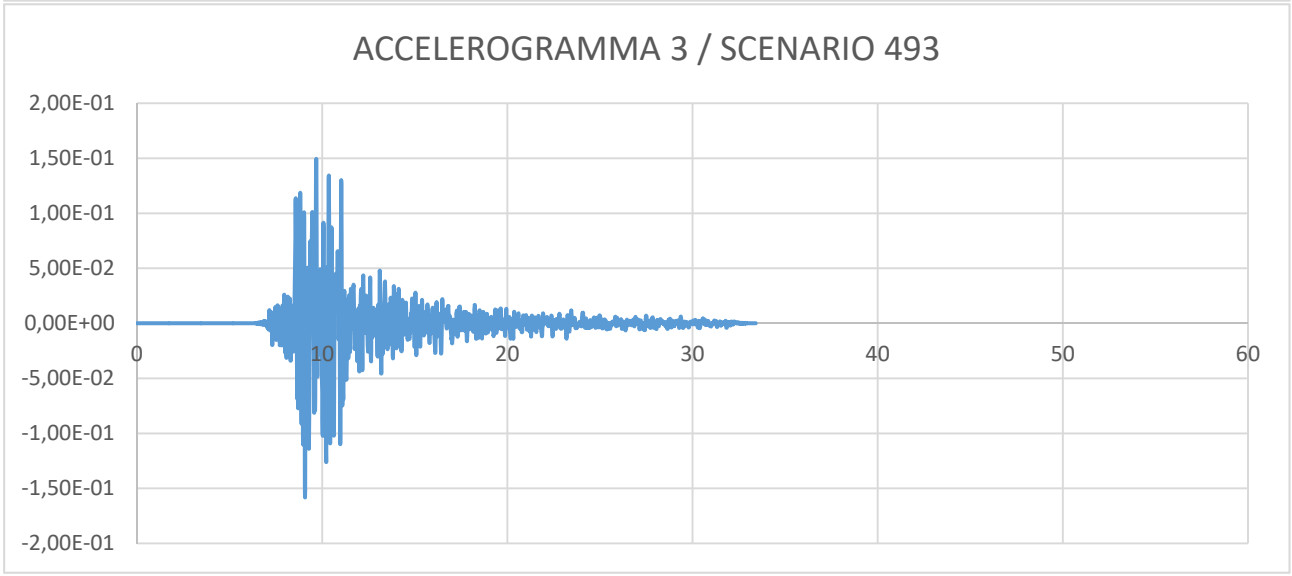

SPETTRO / ACCELEROGRAMMA 6 / SCENARIO 97
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0

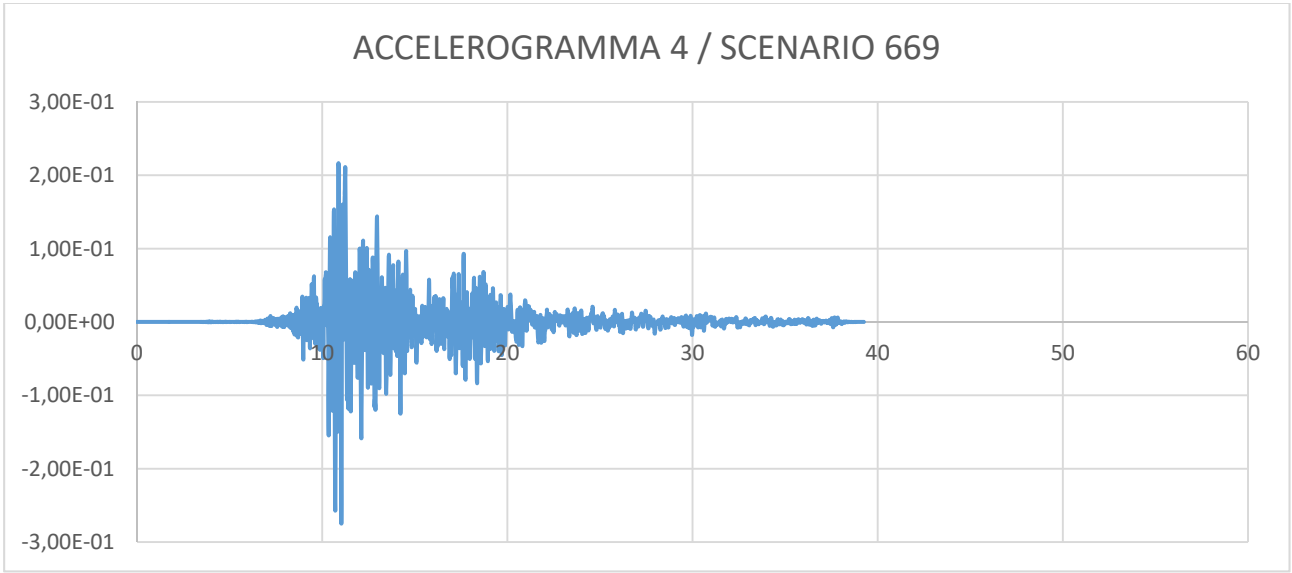

SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 672
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,5
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5

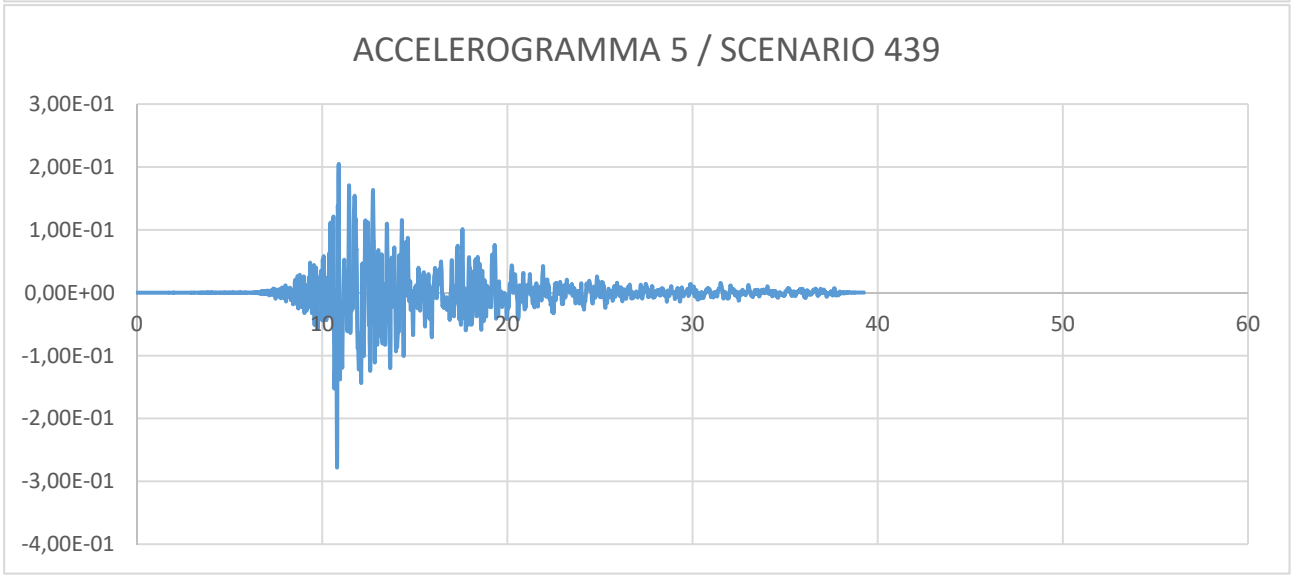

SPETTRO / ACCELEROGRAMMA 7 / SCENARIO 672
0,6
0,5
0,4
0,3
0,2
0,1
0,0
0,0
0,1
1,0
10,0

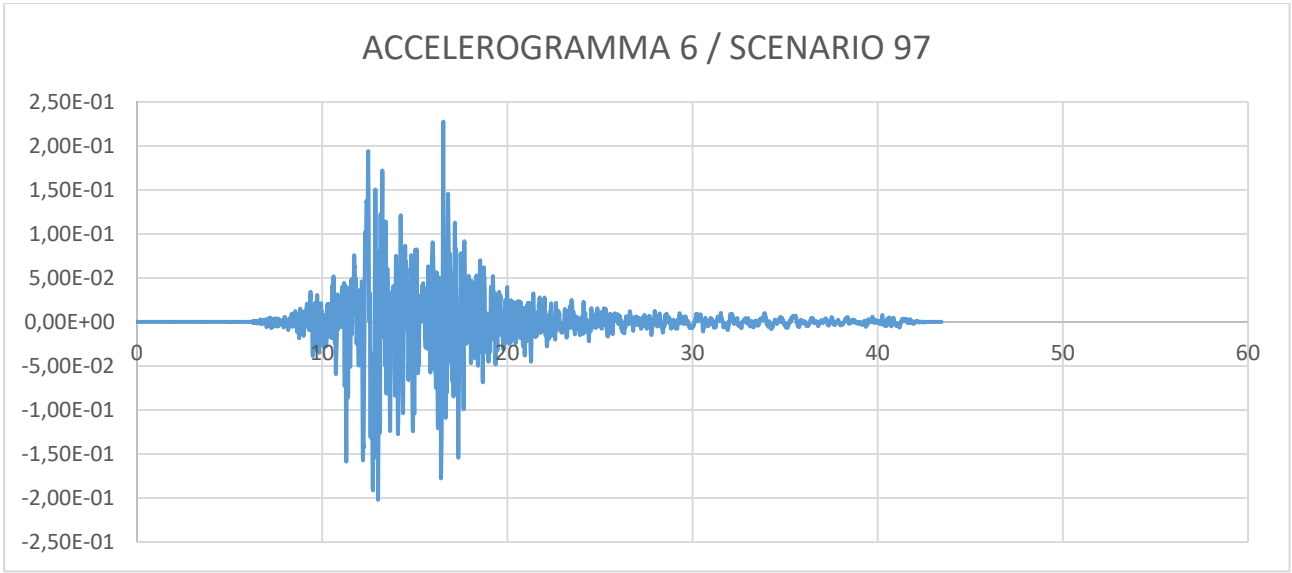

ACCELEROGRAMMA 1 / SCENARIO 204
6,00E-01
4,00E-01
2,00E-01
0,00E+00
-2,00E-01
-4,00E-01
-6,00E-01
0
10
20
30
40
50
60

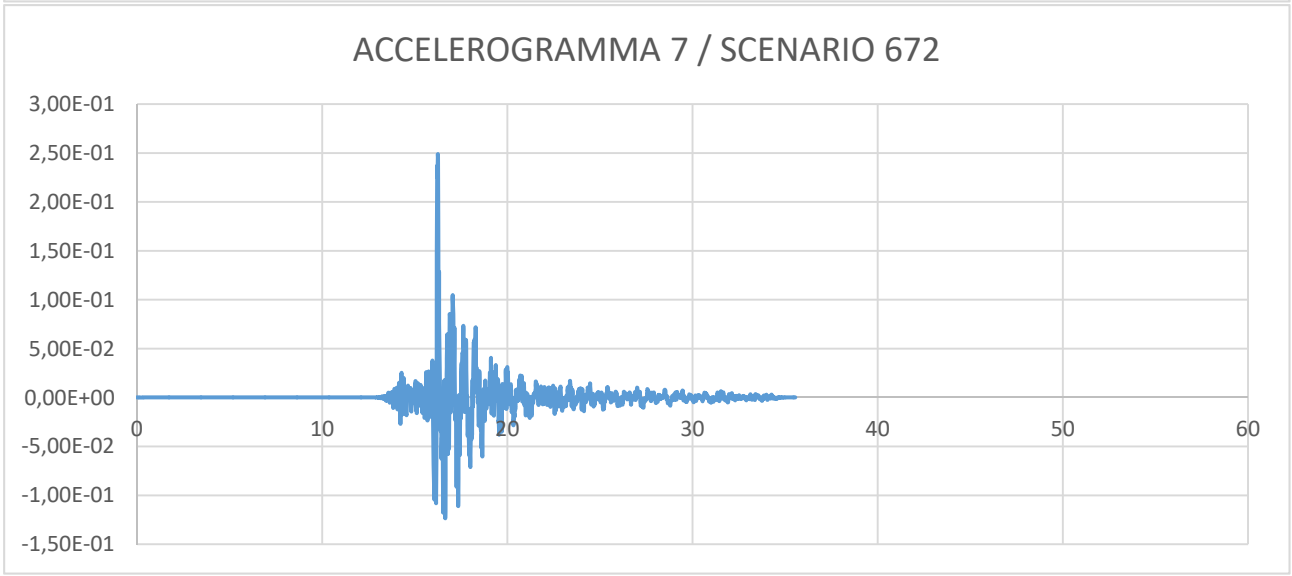

ACCELEROGRAMMA 2 / SCENARIO 667
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 3 / SCENARIO 493
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 4 / SCENARIO 669
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 5 / SCENARIO 439
3,00E-01
2,00E-01
1,00E-01
0,00E+00
-1,00E-01
-2,00E-01
-3,00E-01
-4,00E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 6 / SCENARIO 97
2,50E-01
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
-2,00E-01
-2,50E-01
0
10
20
30
40
50
60


ACCELEROGRAMMA 7 / SCENARIO 672
3,00E-01
2,50E-01
2,00E-01
1,50E-01
1,00E-01
5,00E-02
0,00E+00
-5,00E-02
-1,00E-01
-1,50E-01
0
10
20
30
40
50
60

8. RIEPILOGO

MOPS	FA 01-05	FA 04-08	FA 07-1.1
2001	1.05	1.01	1
2002	1.42	1.09	1.05
2004	1.37	1.28	1.18
2006	1.37	1.21	1.13
2007	1.16	1.03	1.02
2008	1.22	1.44	1.45
2010	1.41	1.29	1.21