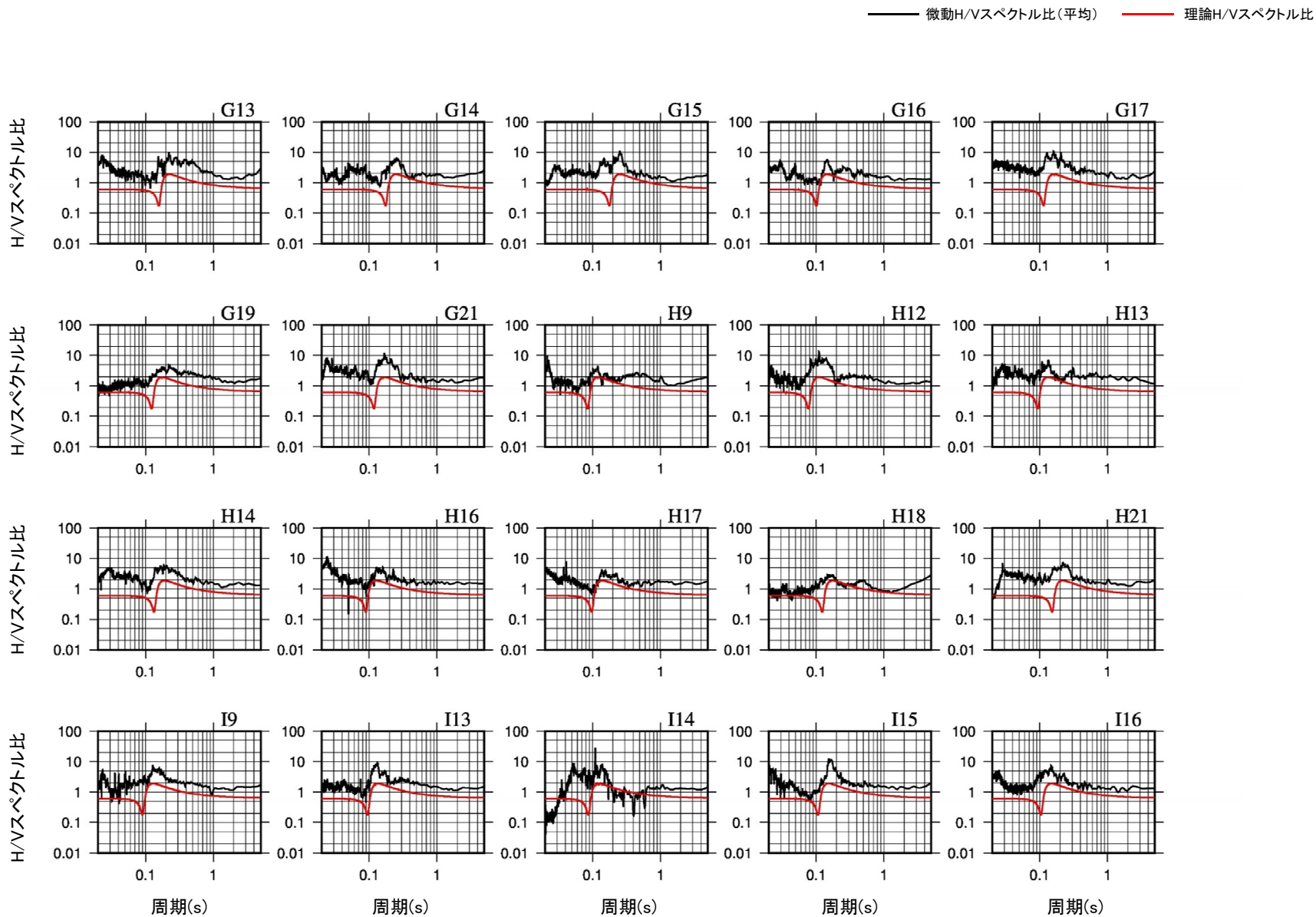
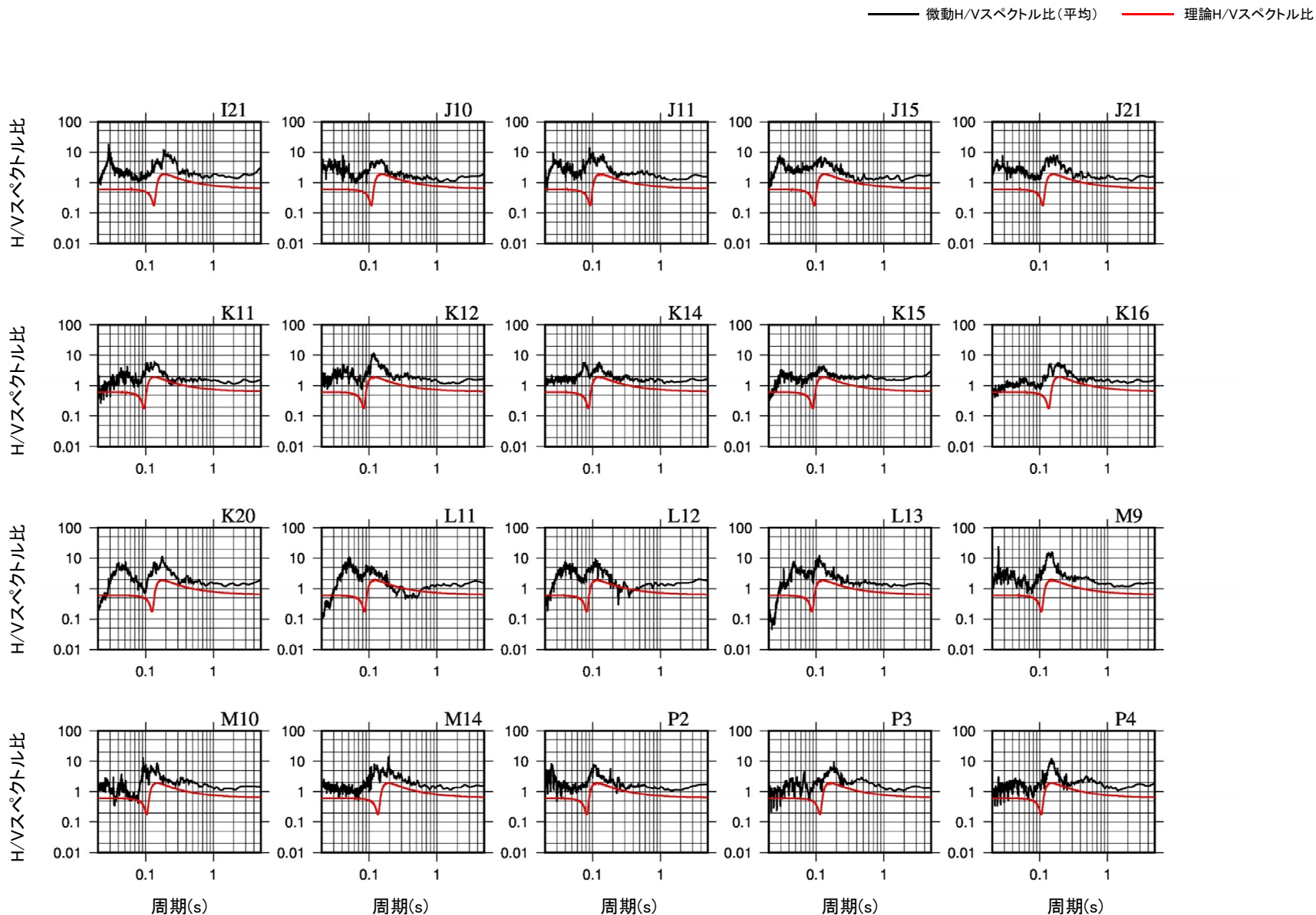


各観測点の微動H/Vスペクトル比と逆解析結果の比較(4/7)



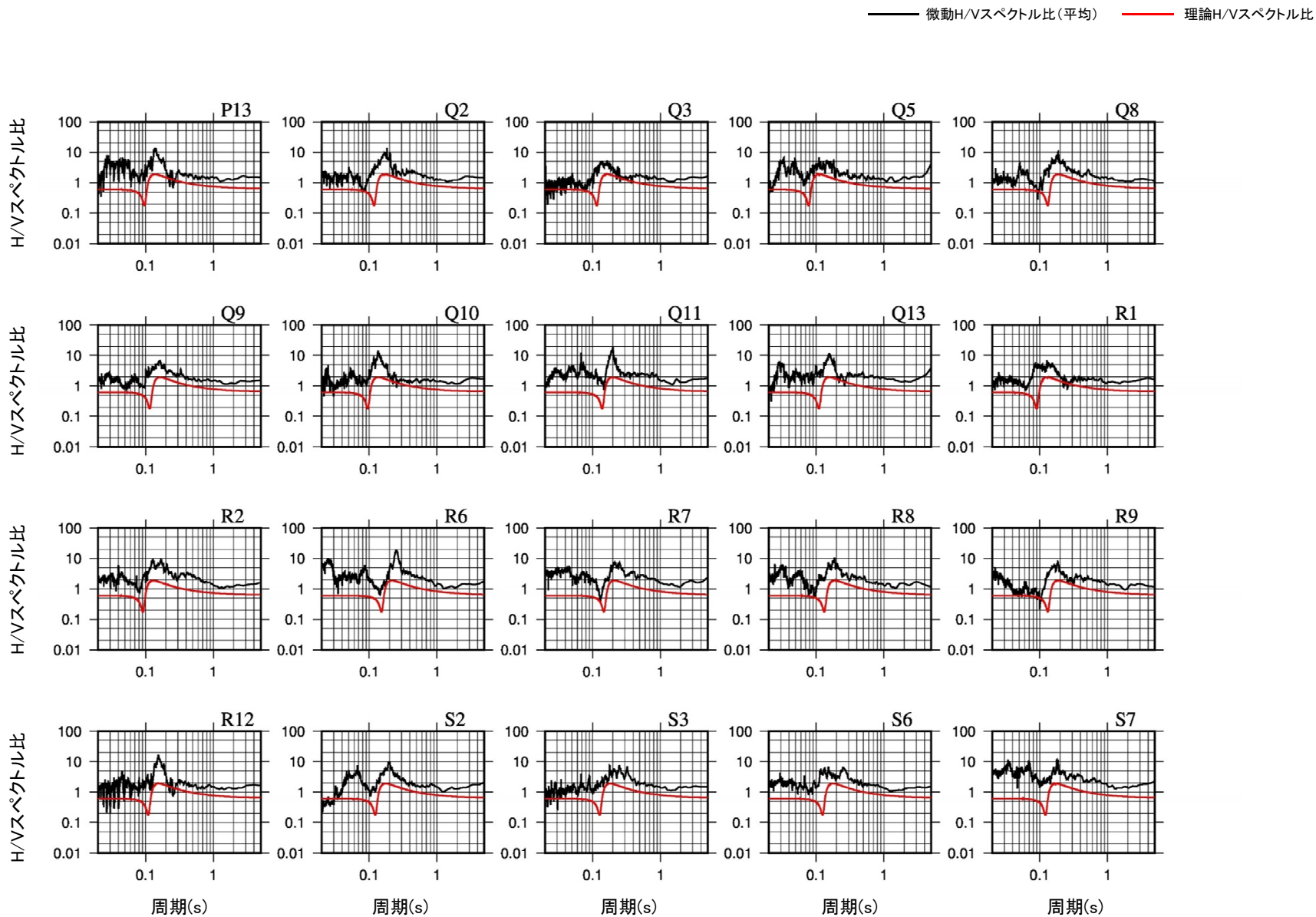
各観測点の微動H/Vスペクトル比と逆解析結果の比較

各観測点の微動H/Vスペクトル比と逆解析結果の比較(5/7)



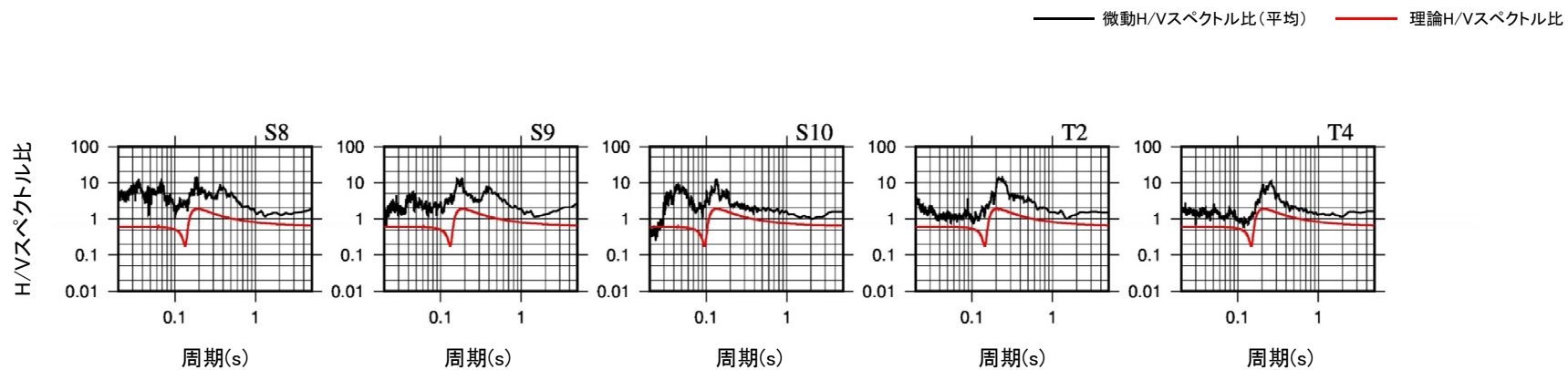
各観測点の微動H/Vスペクトル比と逆解析結果の比較

各観測点の微動H/Vスペクトル比と逆解析結果の比較(6/7)



各観測点の微動H/Vスペクトル比と逆解析結果の比較

各観測点の微動H/Vスペクトル比と逆解析結果の比較(7/7)



3. 観測記録による地下構造の検討に用いた
地震観測記録及び応答スペクトル比

3.1 水平アレー地震観測記録(地表)を用いた検討

検討の対象とした地震

検討の対象とした地震の諸元*

No.	震源情報						震央距離 (km)	震央の方位
	日付	時刻	北緯 (°)	東経 (°)	深さ (km)	M		
1	2016/02/03	21:28	36.4062	137.6380	0.00	4.4	109.1	東
2	2016/03/07	05:58	35.8363	135.8663	12.59	3.9	156.2	南
3	2016/05/23	19:03	36.8070	137.8983	2.77	3.3	108.1	東
4	2016/06/23	12:59	35.7768	136.4485	8.81	3.4	144.7	南
5	2016/06/25	13:51	36.8182	137.8323	0.00	4.8	102.1	東
6	2016/06/27	03:28	36.8203	137.8392	0.00	3.4	102.6	東
7	2016/06/27	19:48	36.8172	137.8400	0.00	3.3	102.8	東
8	2016/06/27	20:11	36.8180	137.8370	0.00	2.9	102.5	東
9	2016/06/29	04:30	36.8158	137.8325	0.00	3.3	102.2	東
10	2016/07/01	08:04	36.8227	137.8457	0.00	4.6	103.1	東
11	2016/07/15	02:29	36.7330	135.2505	21.15	3.7	136.5	西
12	2016/08/20	08:14	37.2592	136.6910	8.17	3.9	22.2	北
13	2016/09/03	08:29	36.8362	137.8515	0.00	3.4	103.2	東
14	2016/09/26	04:01	38.2747	137.8308	30.89	4.0	166.3	北
15	2016/10/21	14:07	35.3805	133.8562	10.61	6.6	318.4	西
16	2016/11/15	01:46	37.3063	137.0903	8.68	2.8	42.2	東
17	2016/11/19	11:48	33.8427	135.4635	51.35	5.4	375.0	南
18	2016/12/06	09:05	36.0078	137.3443	5.11	4.5	129.3	南
19	2017/01/10	06:52	35.7957	136.9197	9.83	3.8	141.4	南
20	2017/01/17	15:53	36.5885	135.9817	21.79	3.6	84.6	西
21	2017/03/05	08:53	36.0072	137.3463	6.00	3.1	129.4	南
22	2017/04/01	19:43	37.3132	136.7688	5.11	3.6	28.3	北
23	2017/05/27	22:50	36.0662	135.5433	17.16	5.1	153.0	南
24	2017/06/25	07:02	35.8680	137.5865	6.66	5.6	153.2	南
25	2017/06/25	09:24	35.8635	137.5668	5.90	4.5	152.7	南
26	2017/06/25	15:17	35.8568	137.5843	6.60	4.7	154.1	南
27	2017/08/13	07:14	37.0970	136.8145	3.75	1.7	8.8	東
28	2017/09/08	12:42	37.2918	136.7457	7.11	3.6	25.7	北
29	2020/10/19	03:27	35.2118	136.6313	41.94	4.1	205.3	南
30	2020/11/29	17:15	36.4340	136.7155	8.65	2.5	69.6	南
31	2020/12/28	03:15	37.0360	136.4037	9.77	3.6	28.9	西
32	2021/02/13	23:07	37.7288	141.6985	55.38	7.3	446.4	東
33	2021/03/11	19:57	36.2198	137.6533	3.73	4.3	124.8	南
34	2021/07/17	18:07	36.3243	137.6155	2.57	4.3	114.0	南
35	2021/07/18	18:50	37.0382	139.2767	3.50	4.7	226.8	東
36	2021/07/24	15:11	38.0403	137.9325	18.18	3.7	152.2	北
37	2021/07/26	21:20	37.5027	137.2107	12.66	2.7	65.2	北
38	2021/07/27	17:31	36.0902	137.3172	10.42	3.2	120.0	南
39	2021/08/08	01:42	37.5112	137.2197	13.39	2.9	66.4	北
40	2021/08/14	22:38	37.5088	137.2230	13.50	4.2	66.4	北
41	2021/08/16	05:03	35.4510	136.3343	13.00	4.6	182.1	南
42	2021/08/16	08:17	35.4552	136.3303	13.33	4.4	181.7	南
43	2021/08/21	16:40	37.5163	137.2388	13.17	3.7	68.0	北
44	2021/09/16	18:42	37.5053	137.3008	13.12	5.1	70.9	東
45	2021/09/19	17:18	36.3455	137.6247	0.00	5.3	112.9	南
46	2021/09/19	17:19	36.3415	137.6198	0.99	4.9	112.9	南
47	2021/09/19	18:59	36.3033	137.6253	3.17	4.4	116.3	南
48	2021/09/19	19:04	36.2872	137.6323	4.02	4.7	118.0	南
49	2021/09/24	18:48	37.3658	138.4017	16.18	4.1	152.5	東
50	2021/09/27	19:54	36.2715	137.6327	4.37	4.3	119.3	南

No.	震源情報						震央距離 (km)	震央の方位
	日付	時刻	北緯 (°)	東経 (°)	深さ (km)	M		
51	2022/03/08	01:58	37.5248	137.2372	13.51	4.8	68.6	北
52	2022/03/16	23:36	37.6967	141.6230	56.61	7.4	439.3	東
53	2022/03/23	09:23	37.5150	137.2987	13.82	4.3	71.5	東
54	2022/04/04	10:26	37.5172	137.2262	13.92	4.3	67.3	北
55	2022/04/30	18:06	35.0463	135.5643	12.47	4.3	246.8	南
56	2022/05/02	14:52	37.5273	137.3017	12.45	4.1	72.7	北
57	2022/06/12	18:14	37.5120	137.2268	13.30	3.0	66.9	北
58	2022/06/16	02:27	37.5295	137.2363	12.84	4.0	68.9	北
59	2022/06/17	00:51	33.9123	134.5888	45.35	4.9	399.6	南
60	2022/06/19	15:08	37.5153	137.2763	13.14	5.4	70.1	北
61	2022/06/19	16:38	37.5152	137.2620	11.96	3.3	69.3	北
62	2022/06/19	19:22	37.5247	137.2740	11.28	3.2	70.8	北
63	2022/06/20	03:03	37.5252	137.2725	11.30	2.9	70.7	北
64	2022/06/20	10:31	37.5220	137.3220	13.86	5.0	73.5	東
65	2022/08/29	22:25	37.5197	137.2123	12.82	3.1	66.7	北
66	2022/09/07	17:48	36.5532	137.5975	3.71	3.3	96.0	東
67	2022/09/22	16:27	37.3168	137.8183	17.92	2.5	101.0	東
68	2022/10/13	11:56	37.5120	137.2170	11.38	3.1	66.3	北
69	2022/10/25	07:08	37.5217	137.2127	13.31	3.2	66.9	北
70	2022/11/14	22:27	37.5195	137.2597	11.92	4.2	69.5	北
71	2022/11/26	21:58	37.5358	137.2285	12.79	4.2	69.0	北
72	2022/12/05	02:47	37.5155	137.2237	13.78	3.2	67.0	北
73	2022/12/11	00:27	37.5260	137.2930	12.35	3.6	72.0	北
74	2022/12/11	02:22	37.5290	137.2922	12.09	3.0	72.2	北
75	2023/01/06	13:44	37.5065	137.2743	13.42	4.5	69.3	北
76	2023/01/06	23:53	37.4922	137.2168	12.45	3.9	64.7	北
77	2023/02/21	07:47	37.5098	137.2282	13.11	3.2	66.8	北
78	2023/02/21	22:53	37.5253	137.2735	11.51	4.1	70.8	北

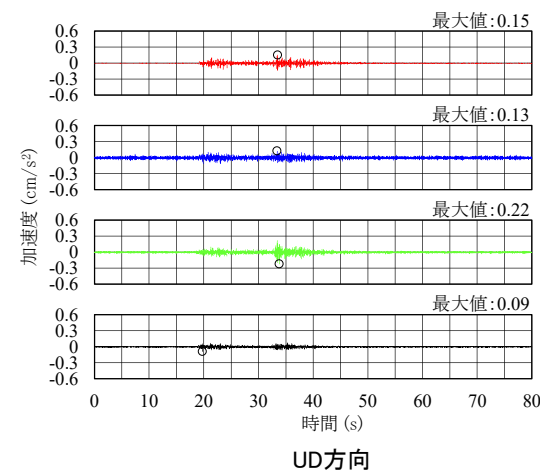
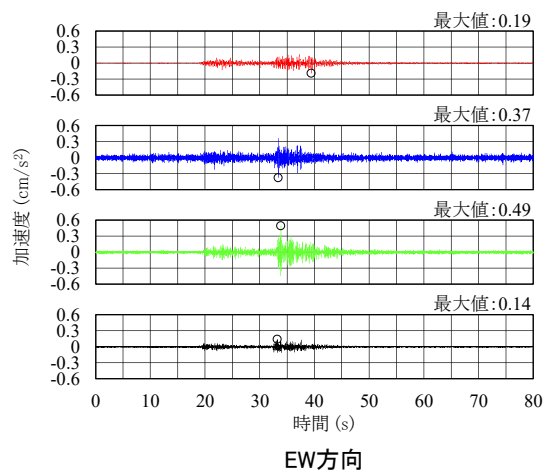
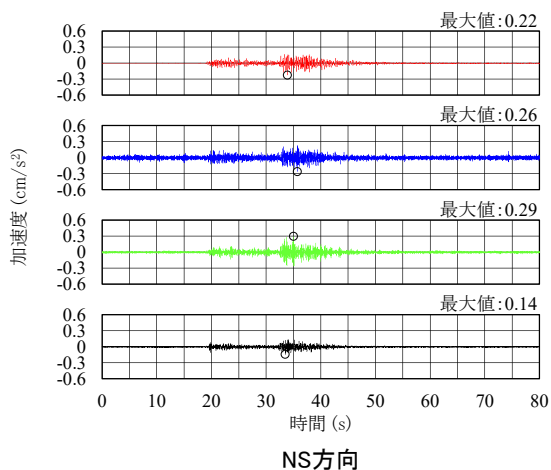
* 気象庁「地震月報(カタログ編)」または防災科学技術研究所「Hi-net検測値データ」に基づく

到来方向	地震数
東方向	20個
西方向	4個
南方向	24個
北方向	30個
全方向	78個

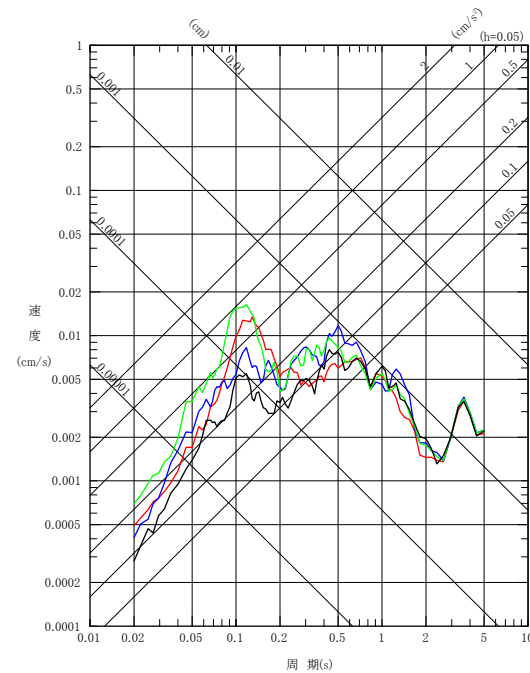
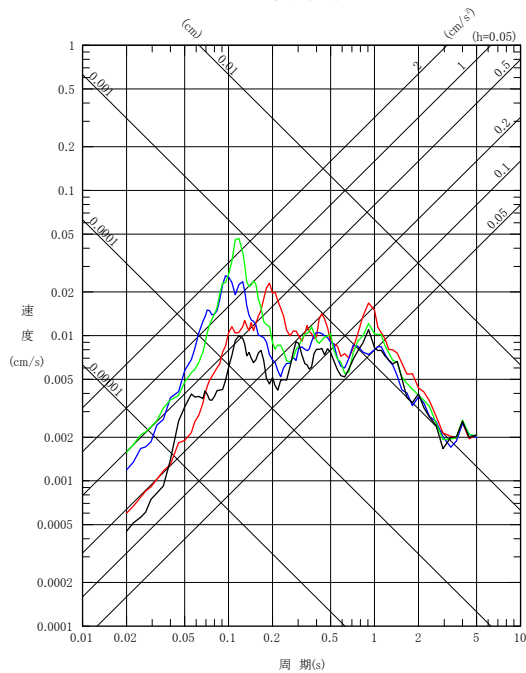
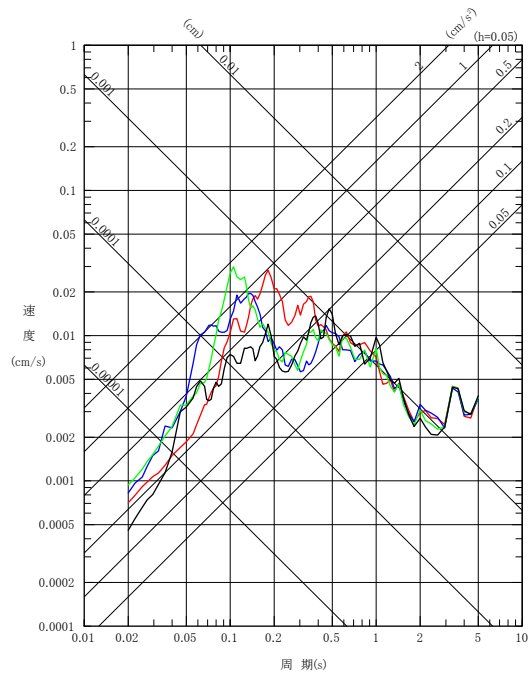
※ 観測点3のNS方向のNo.3~12及びEW方向のNo.29, 32~33, 43~48, 53~56については、地震計の不具合により適切な観測記録が得られなかったことから検討対象外とした。
 ※ 震央の方位は志賀原子力発電所から震央位置を望む方位を示す。

No.1

— 観測点1 — 観測点2 — 観測点3 — 観測点4



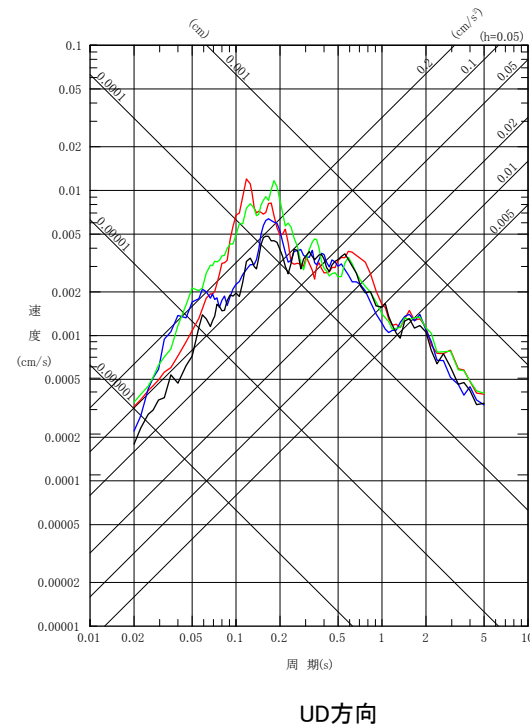
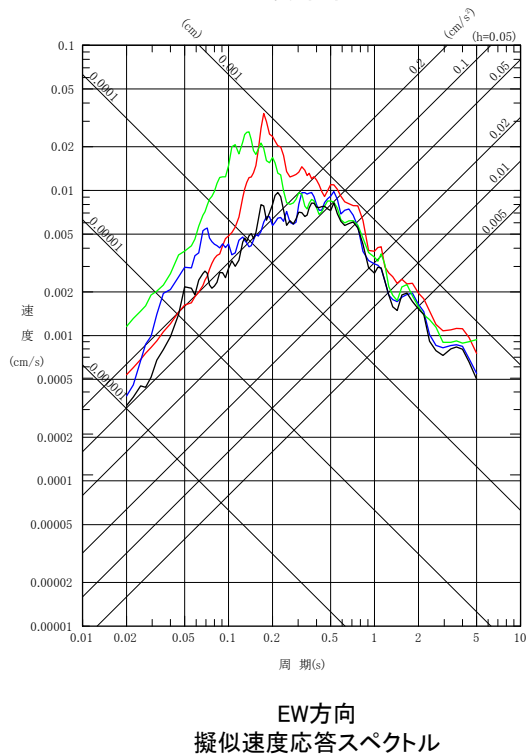
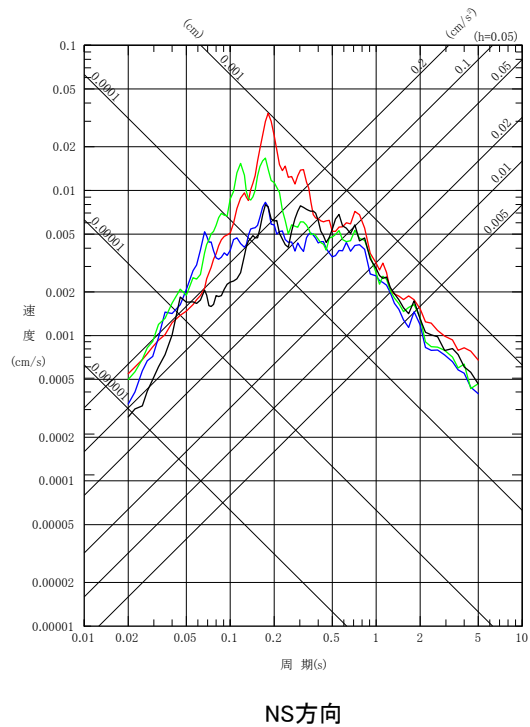
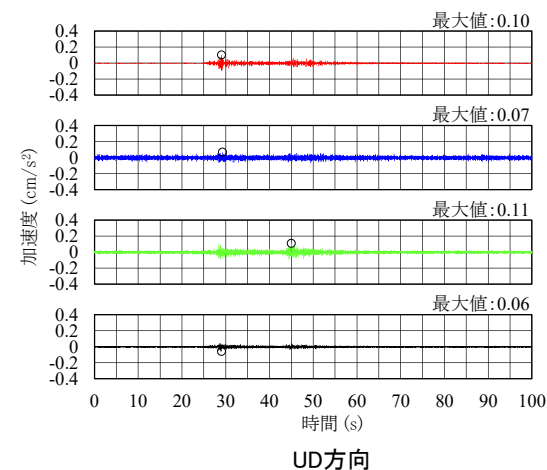
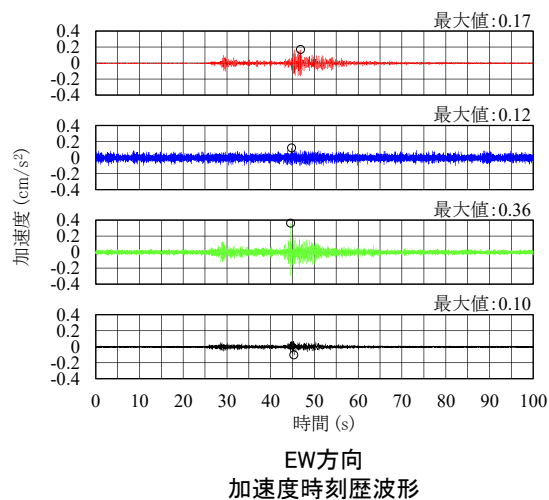
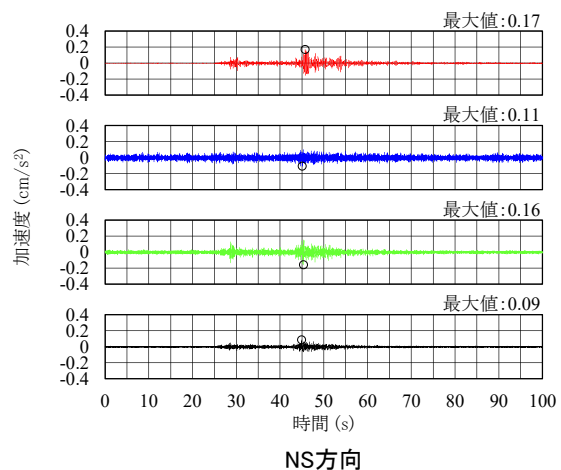
加速度時刻歴波形



擬似速度応答スペクトル

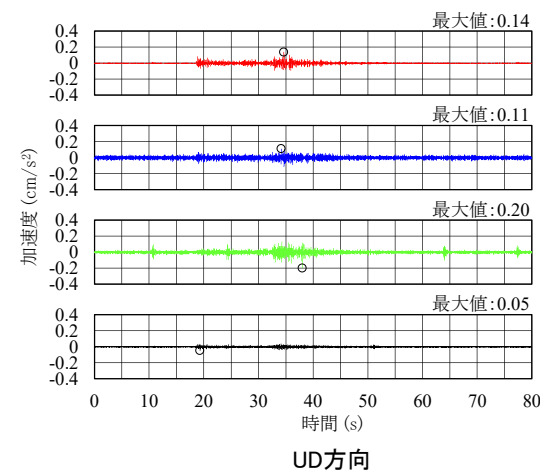
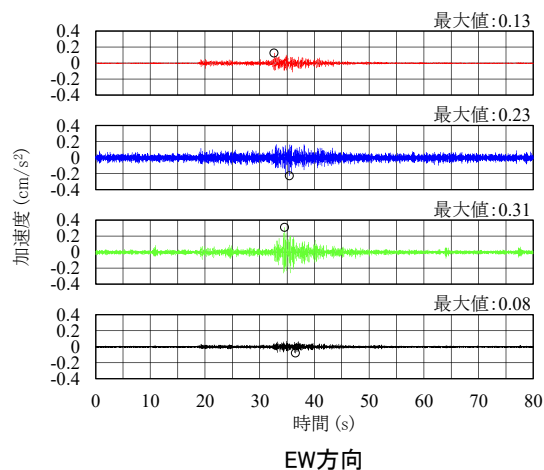
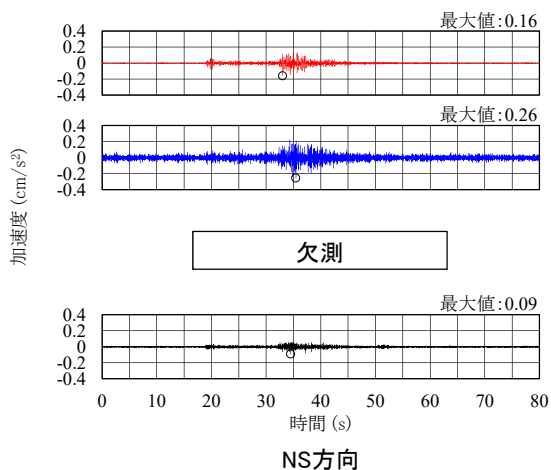
No.2

— 観測点1 — 観測点2 — 観測点3 — 観測点4

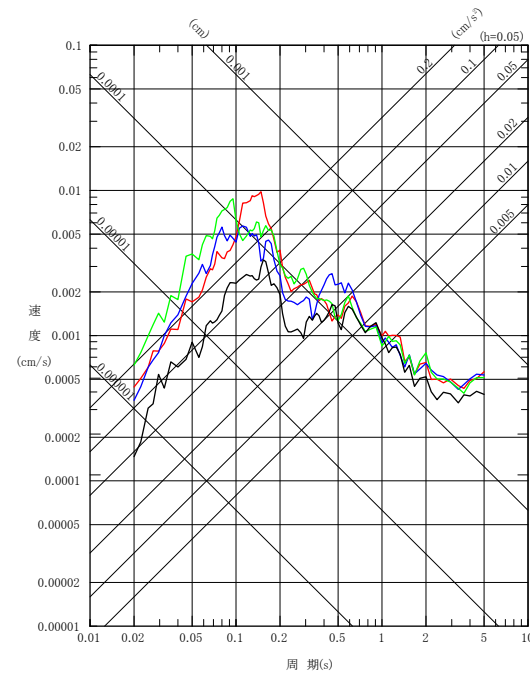
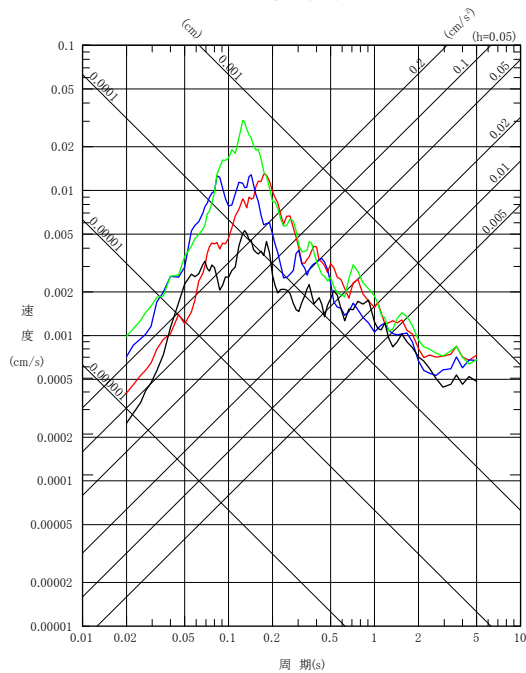
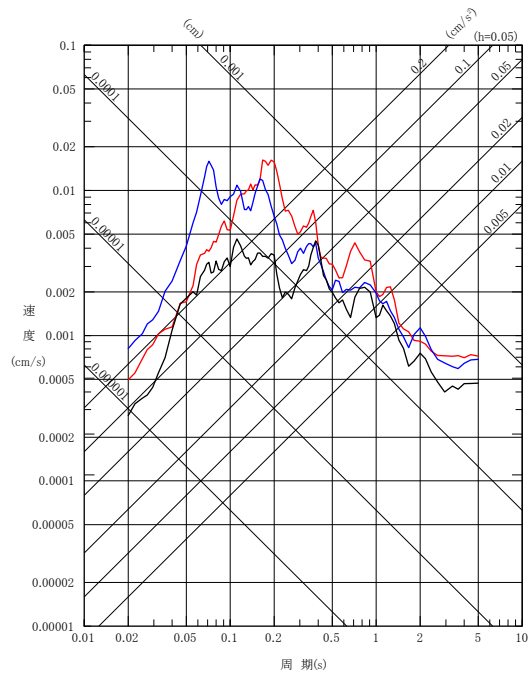


No.3

観測点1 観測点2 観測点3 観測点4

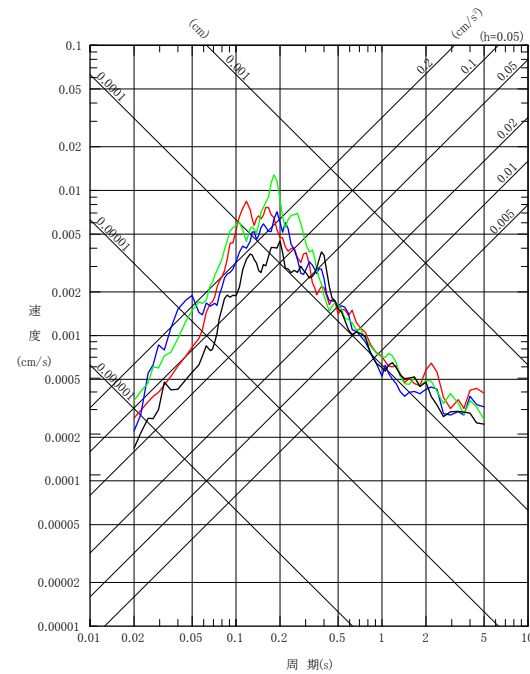
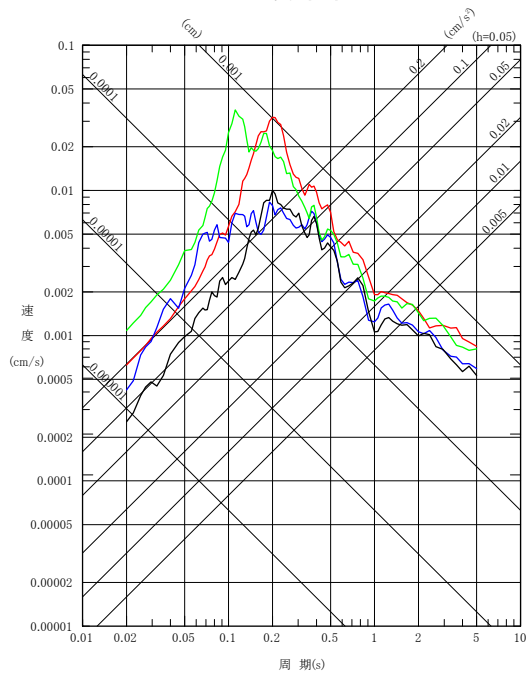
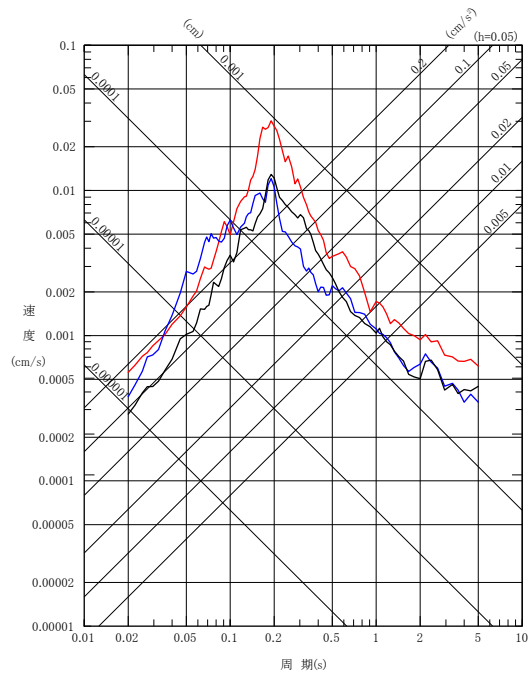
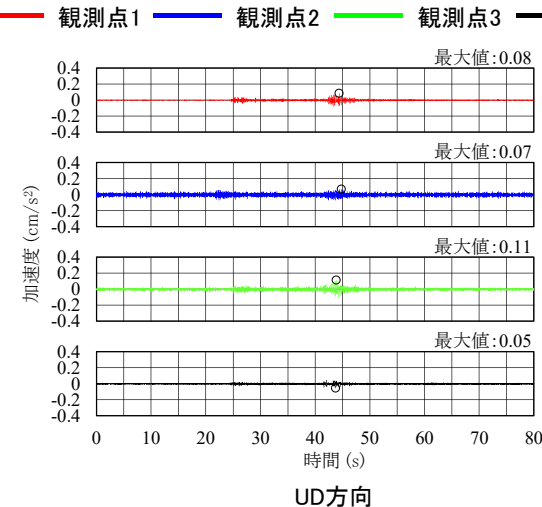
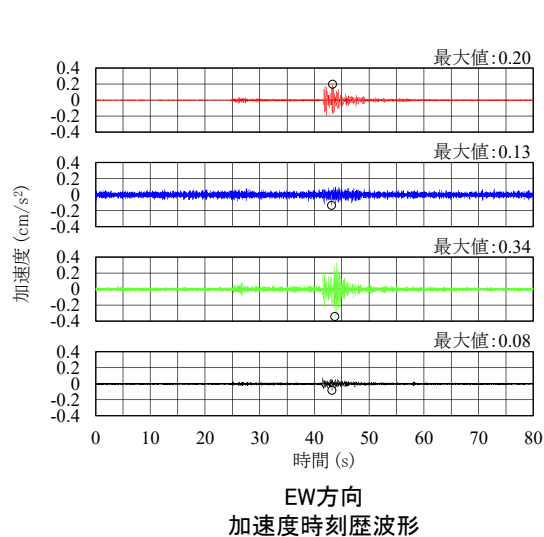
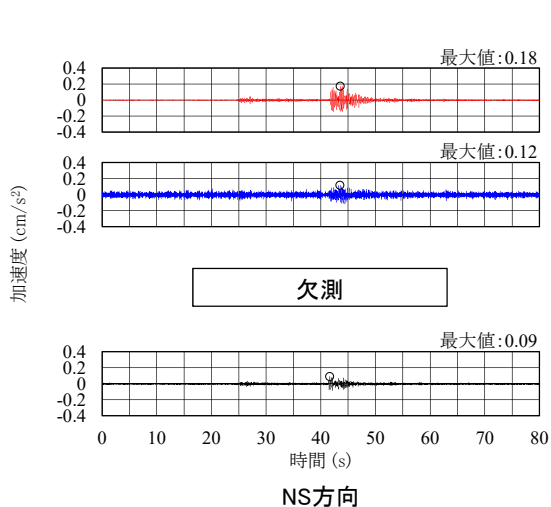


加速度時刻歴波形

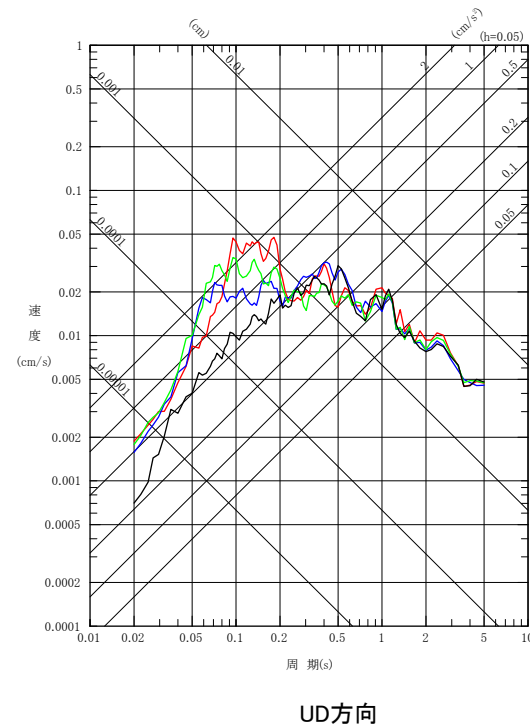
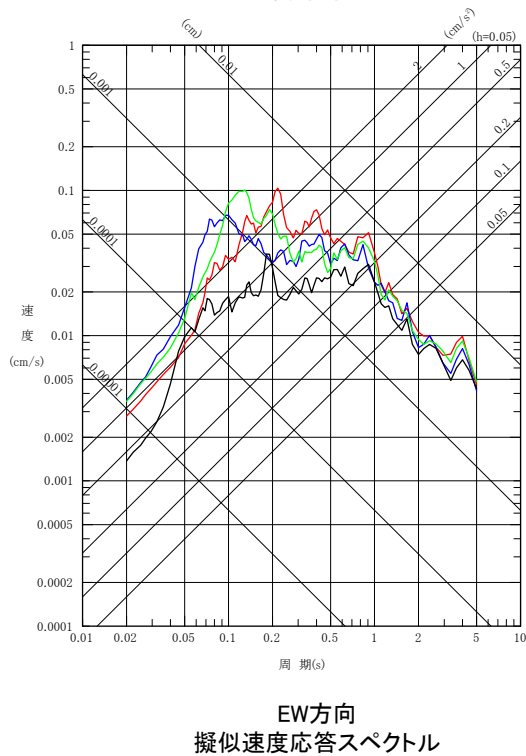
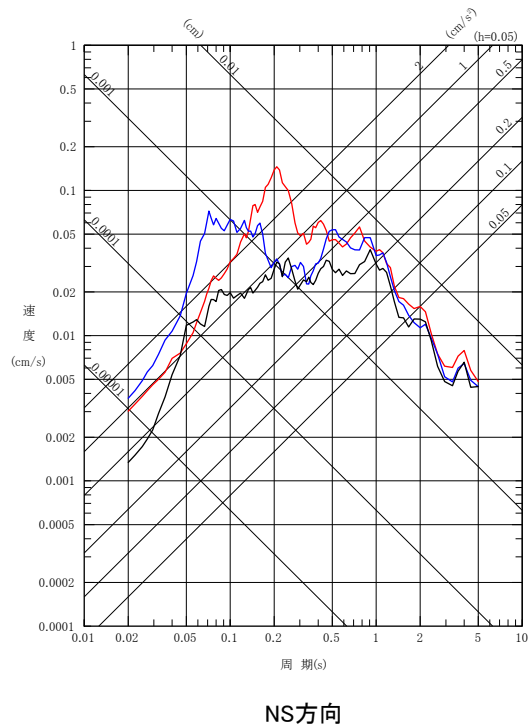
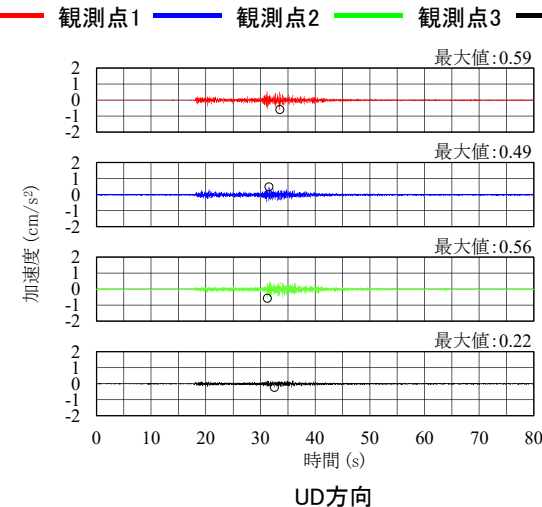
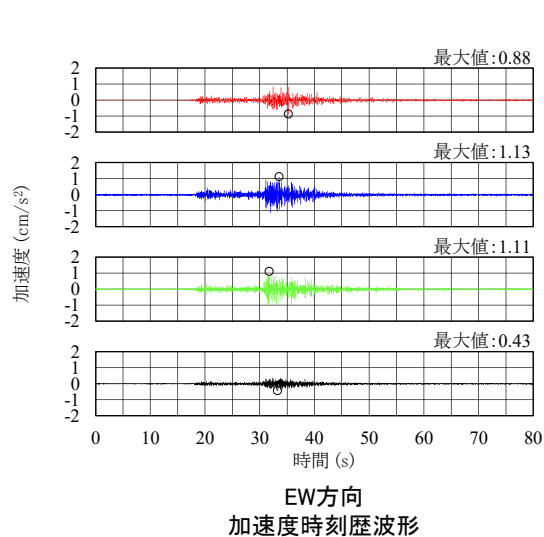
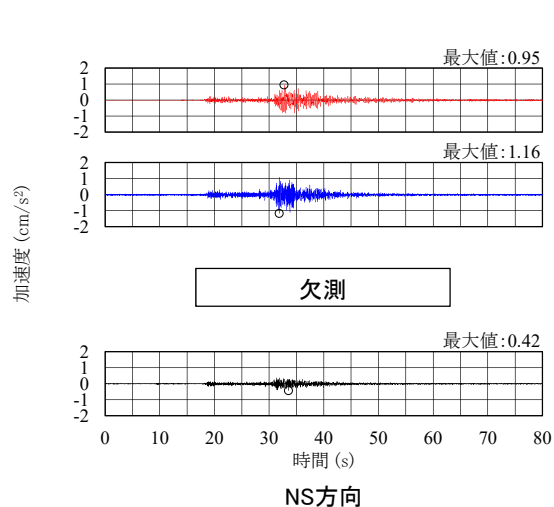


擬似速度応答スペクトル

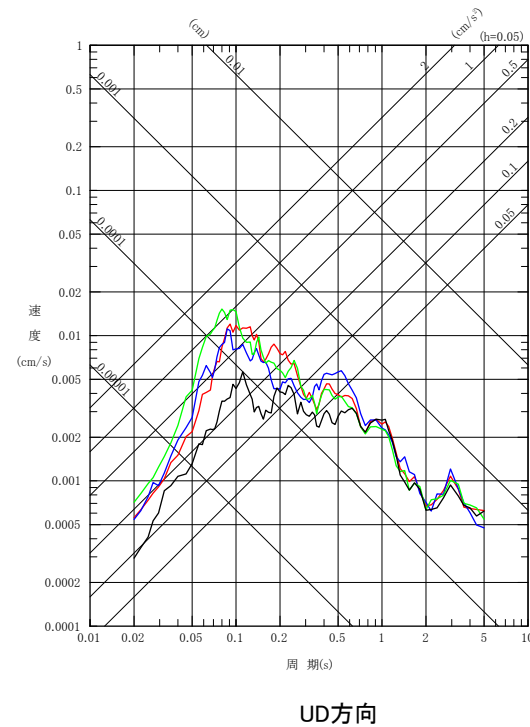
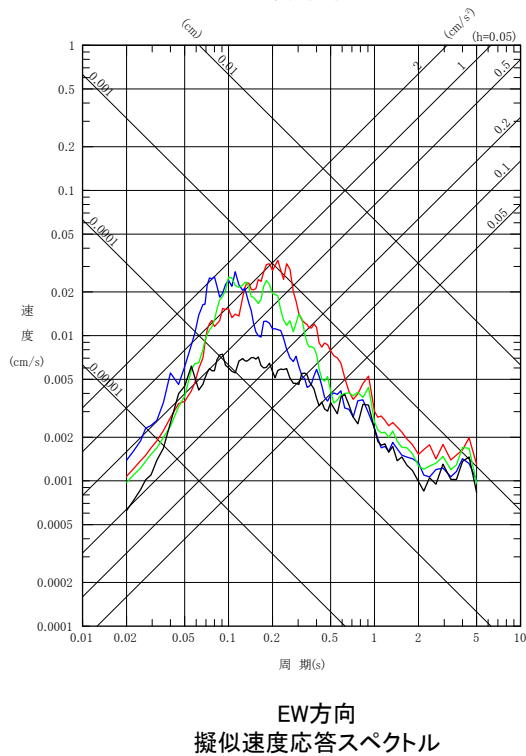
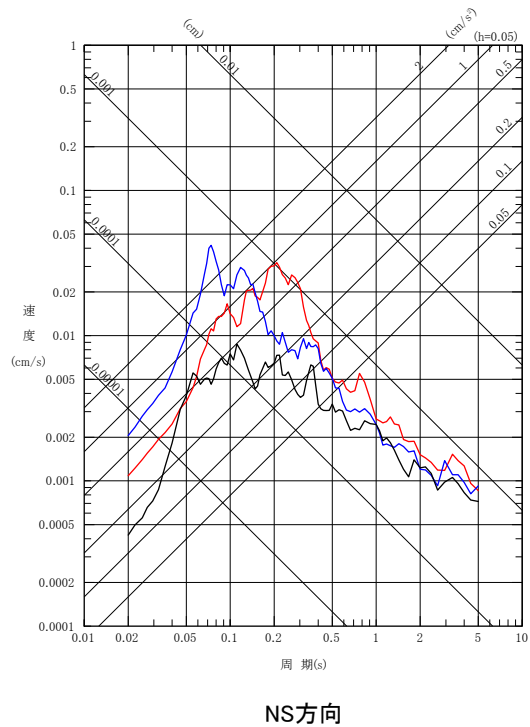
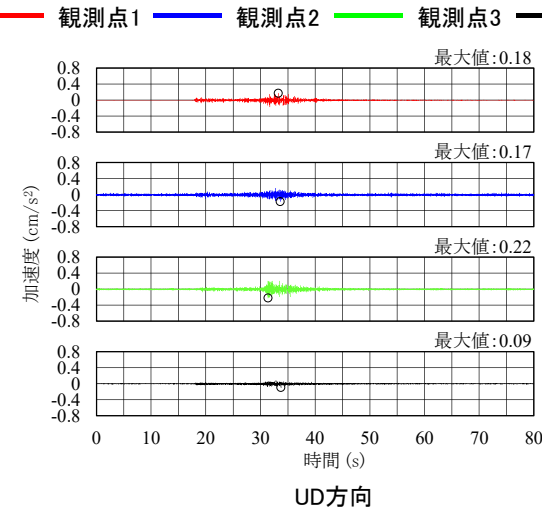
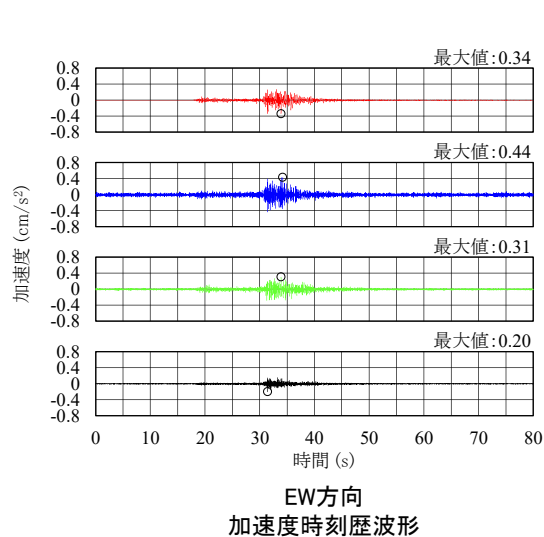
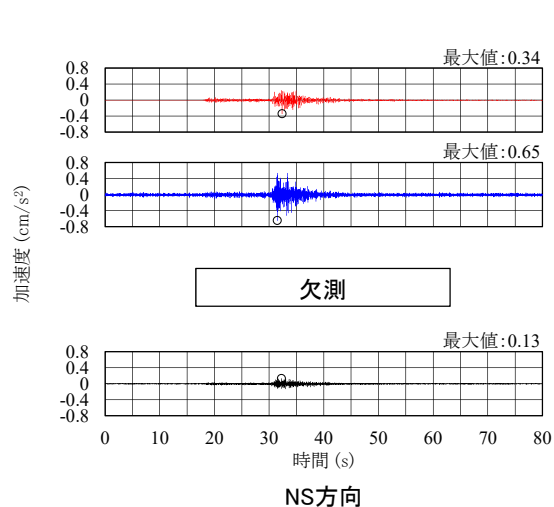
No.4



No.5

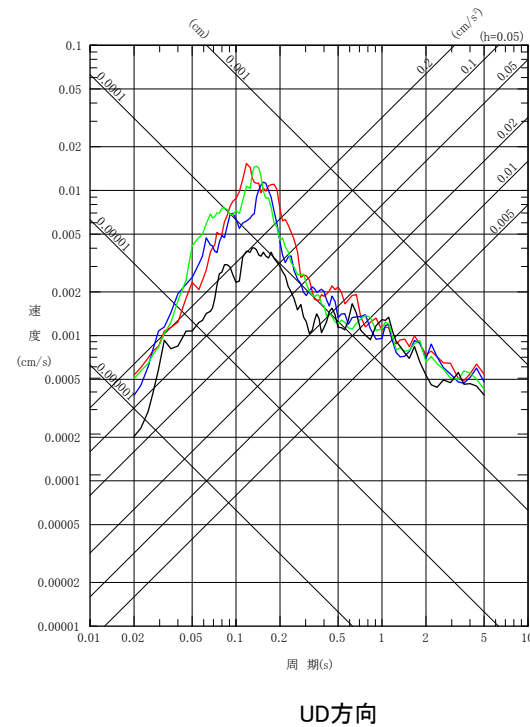
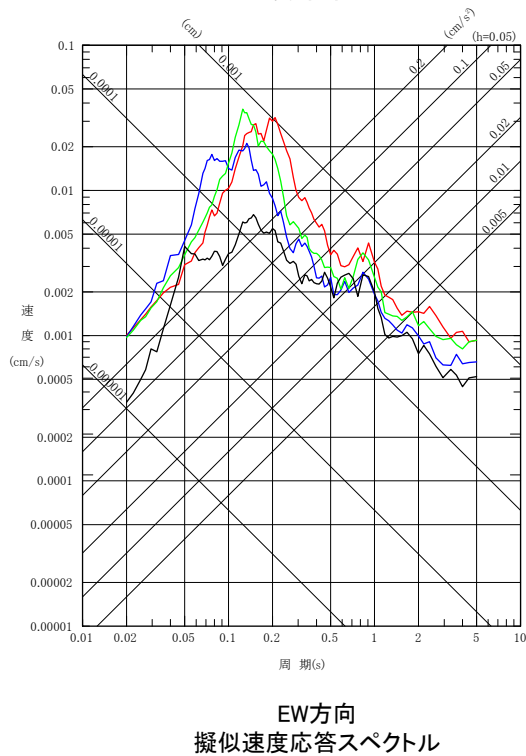
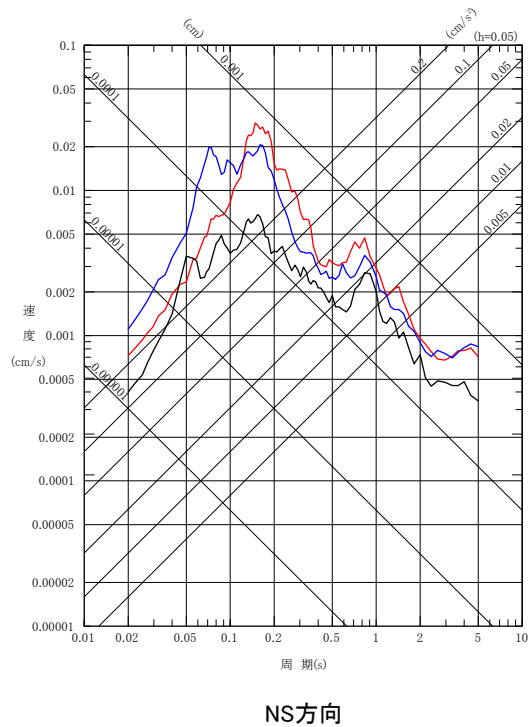
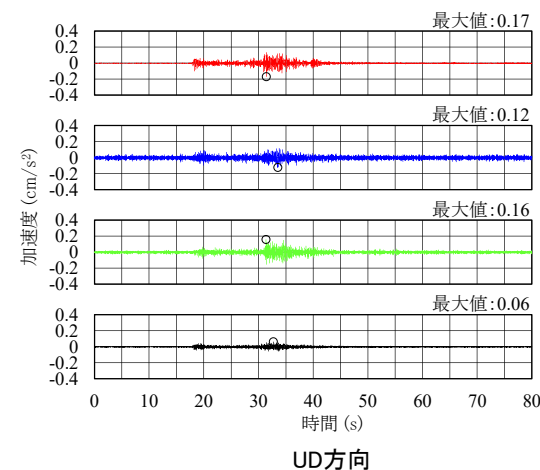
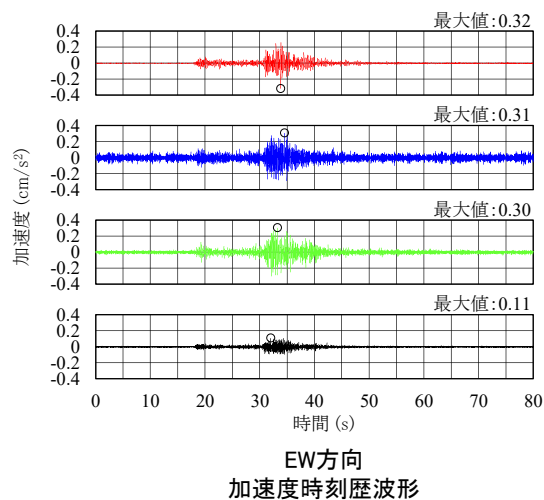
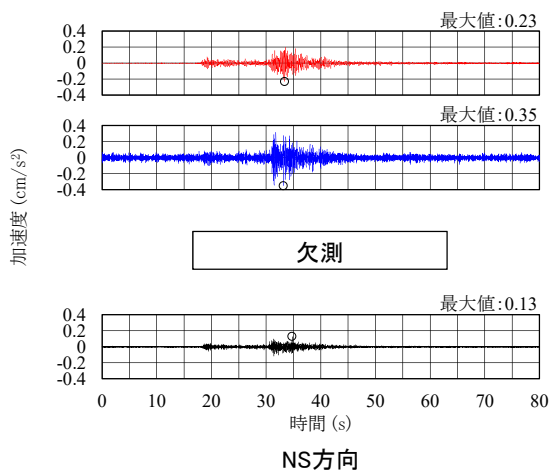


No.6



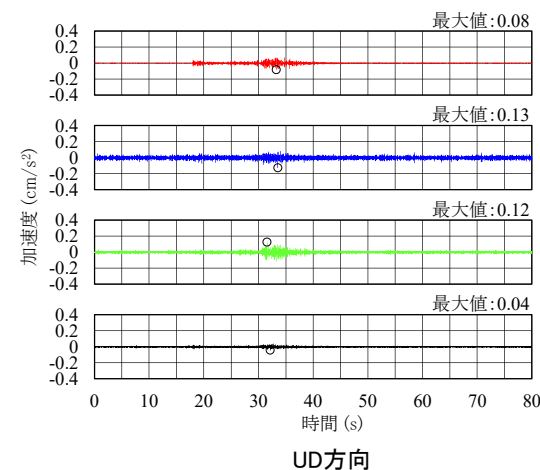
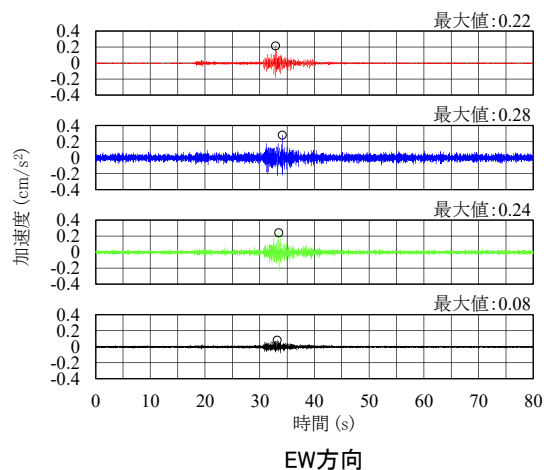
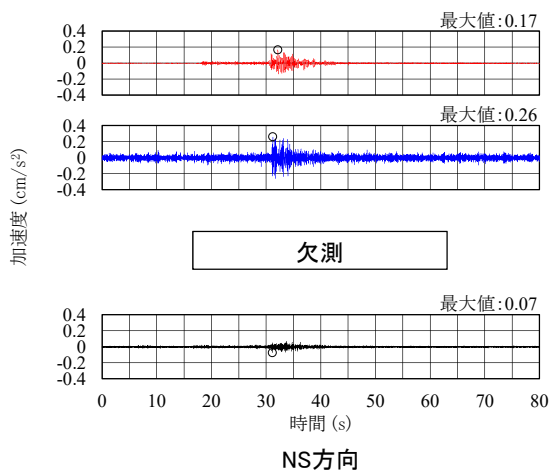
No.7

— 観測点1 — 観測点2 — 観測点3 — 観測点4

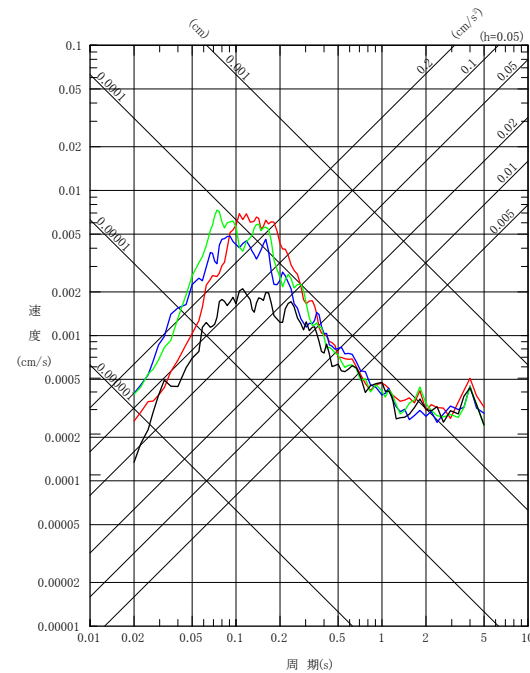
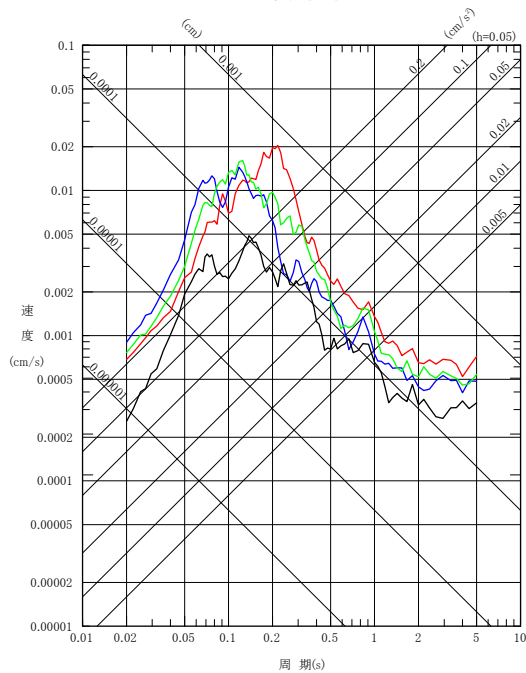
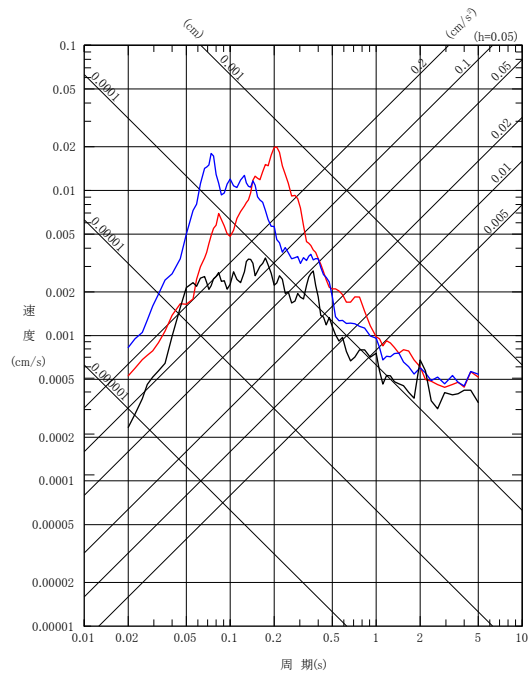


No.8

観測点1 観測点2 観測点3 観測点4

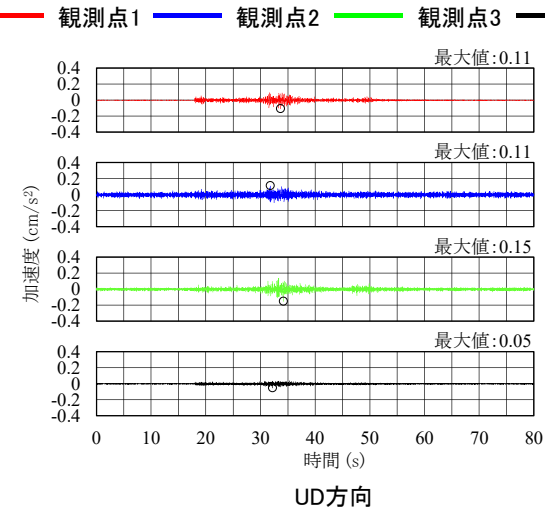
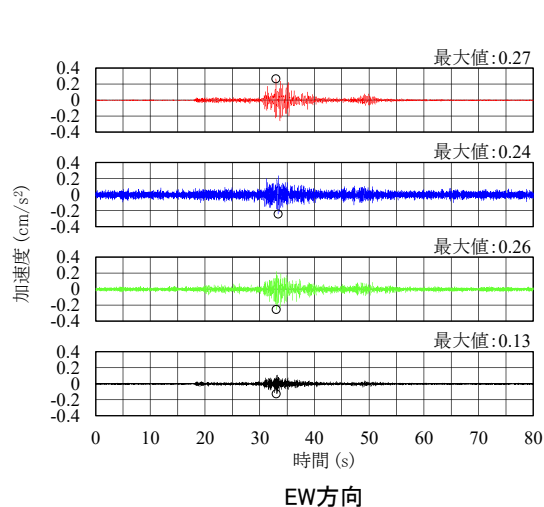
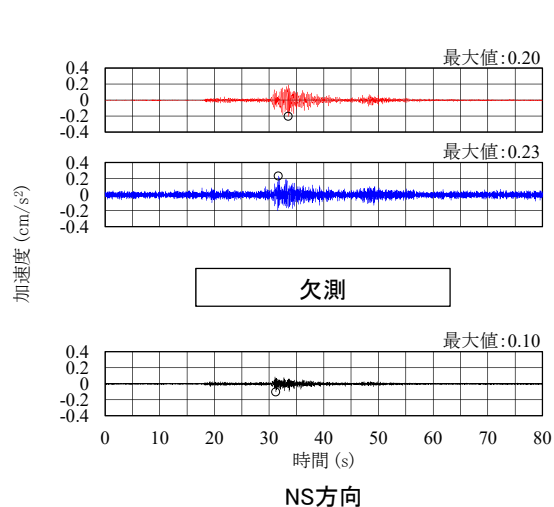


加速度時刻歴波形

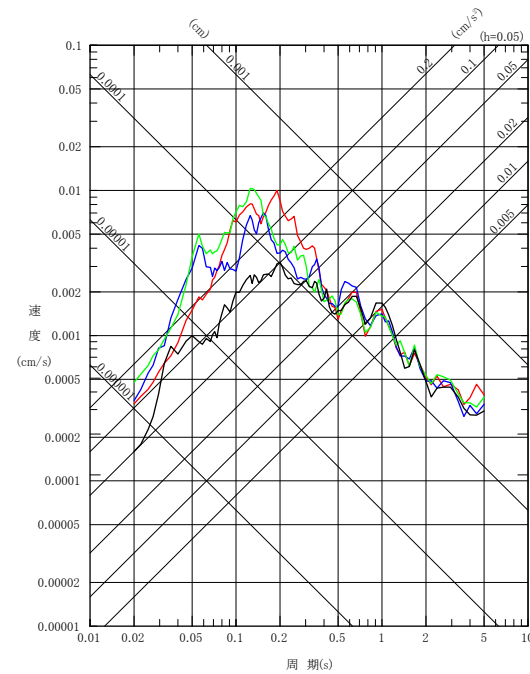
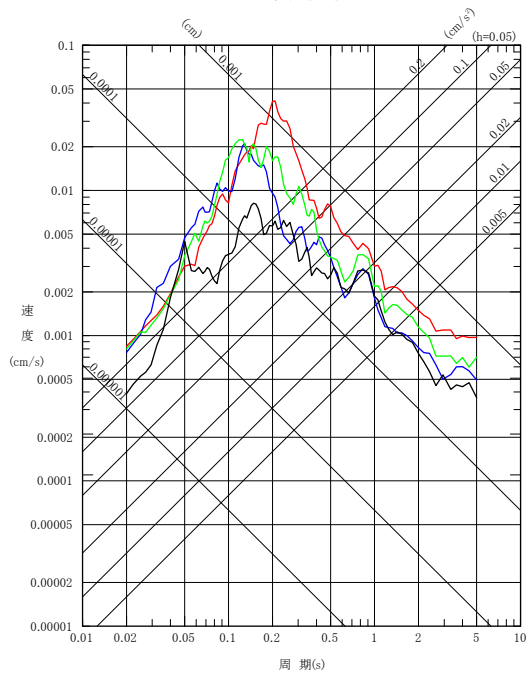
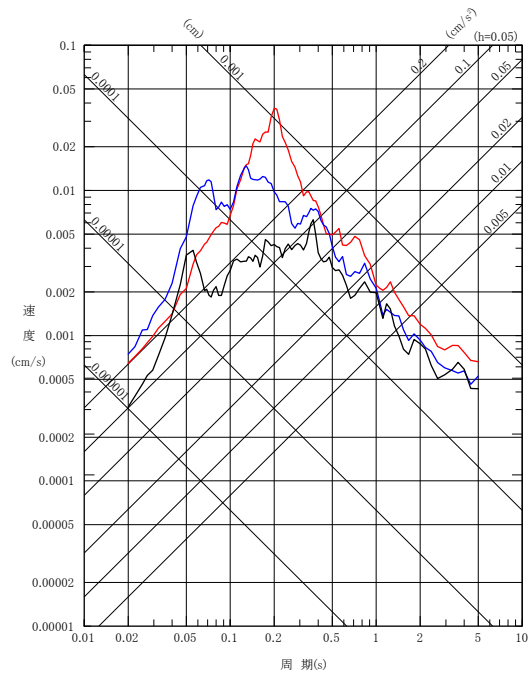


擬似速度応答スペクトル

No.9

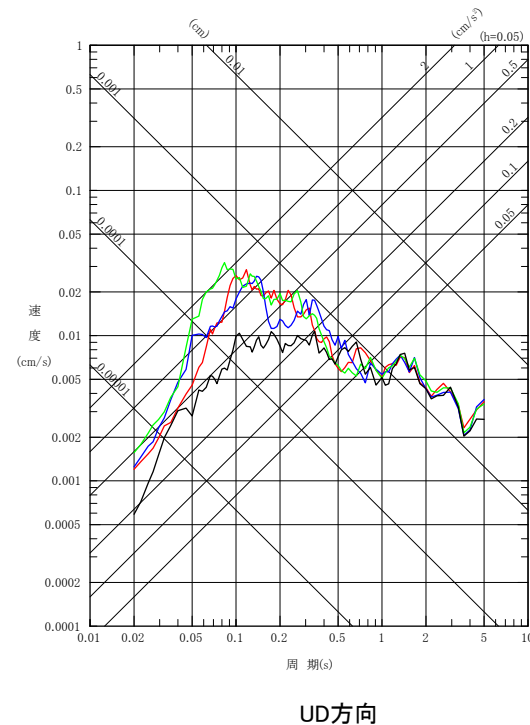
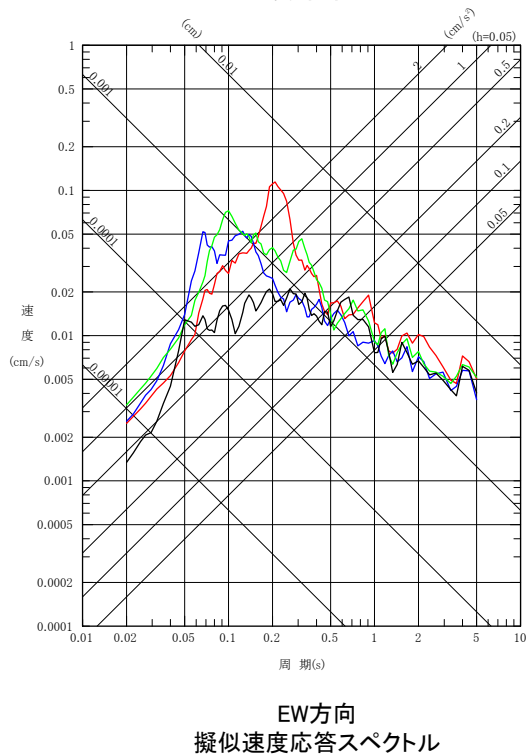
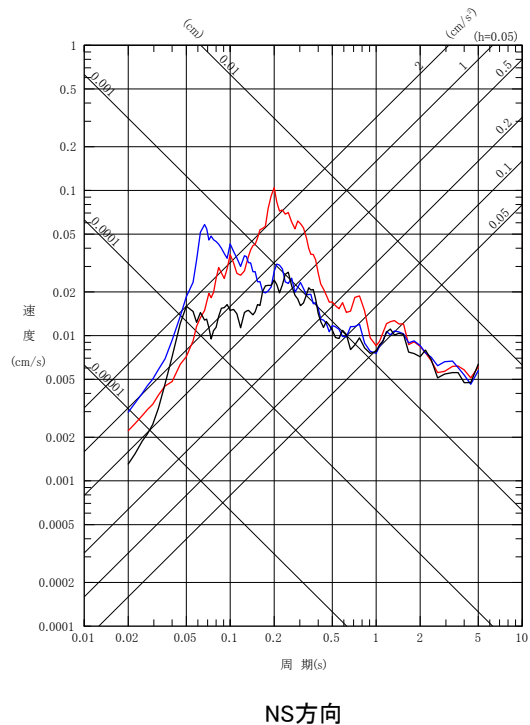
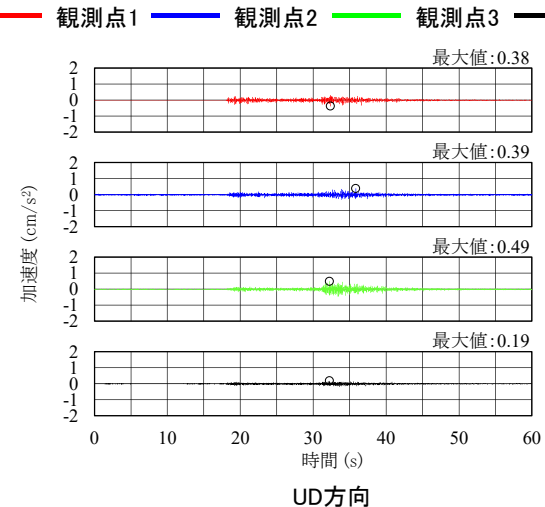
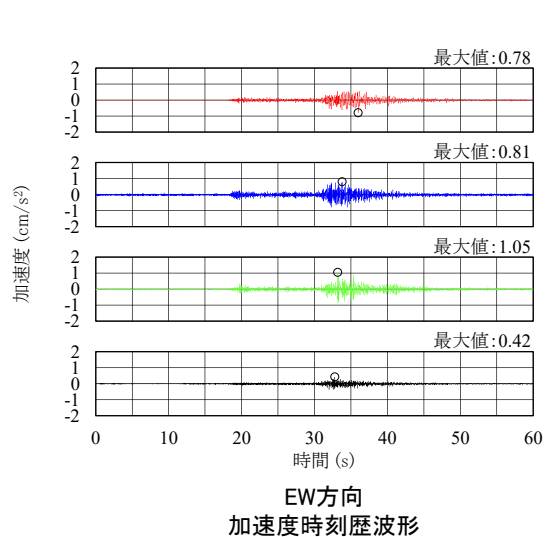
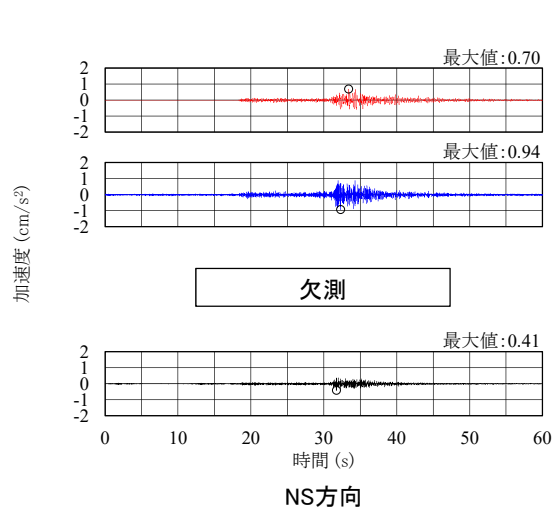


加速度時刻歴波形

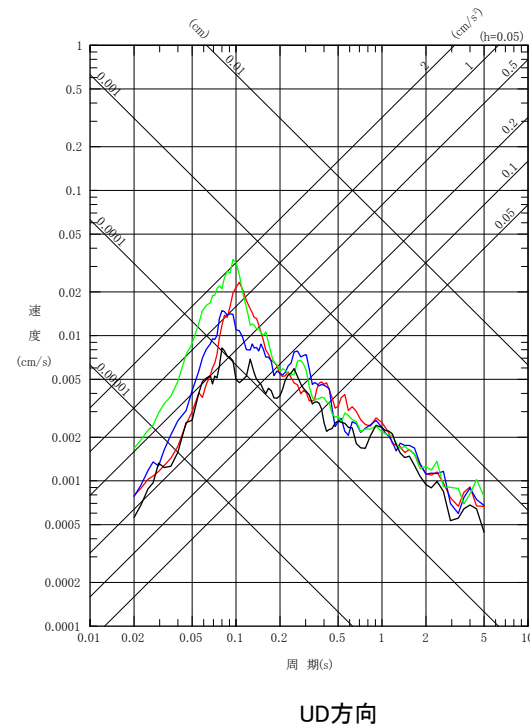
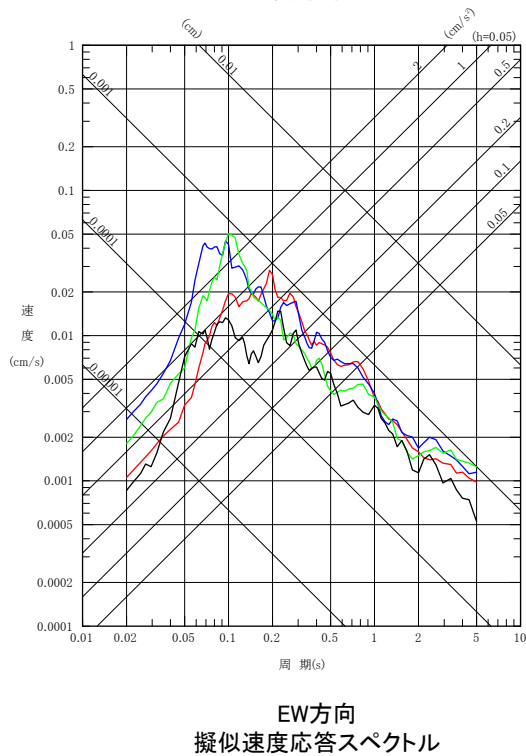
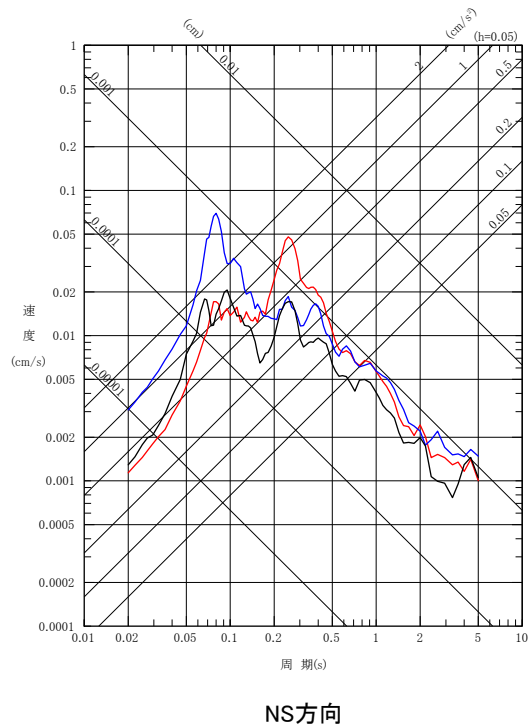
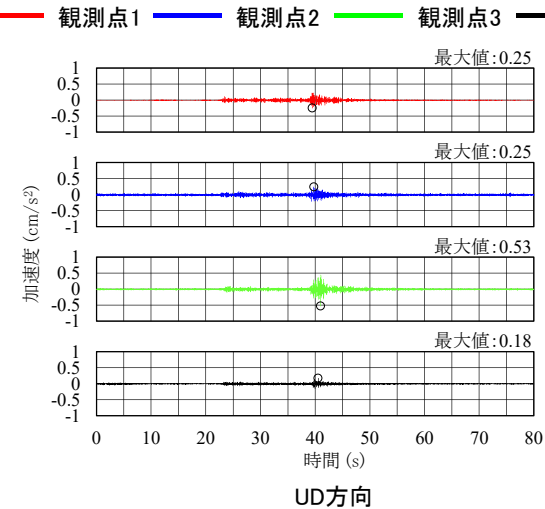
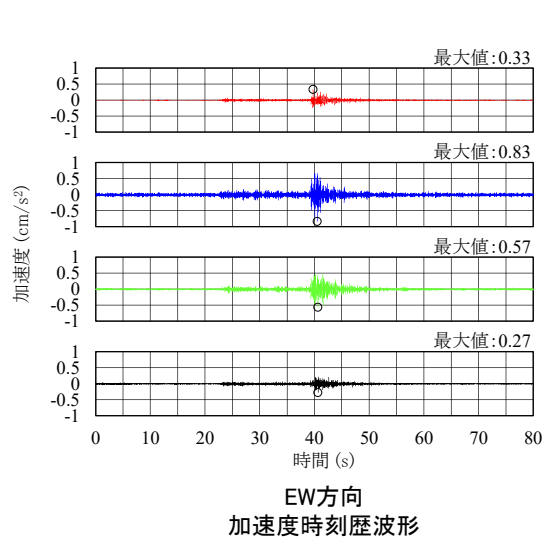
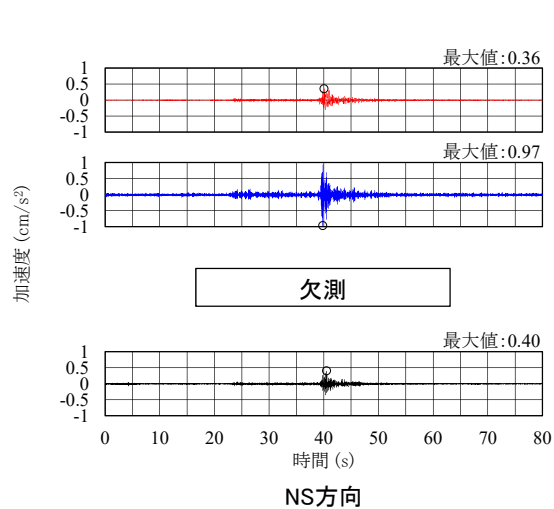


擬似速度応答スペクトル

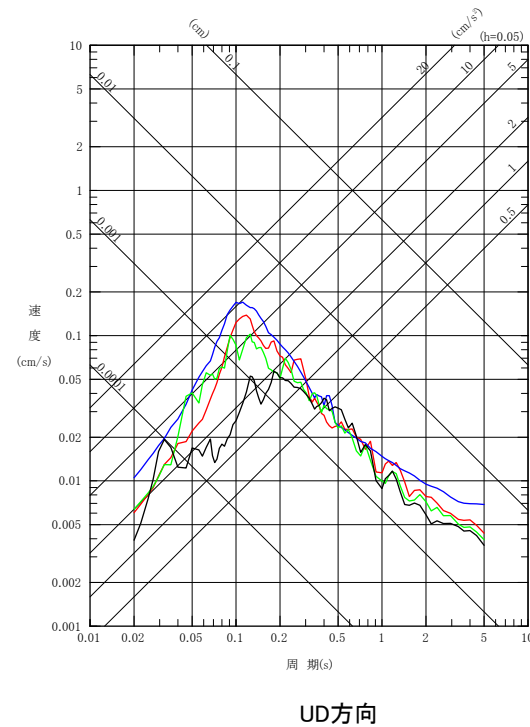
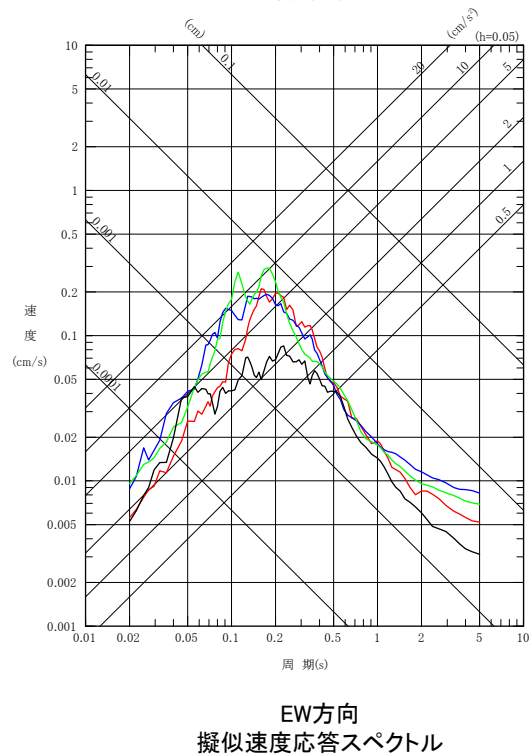
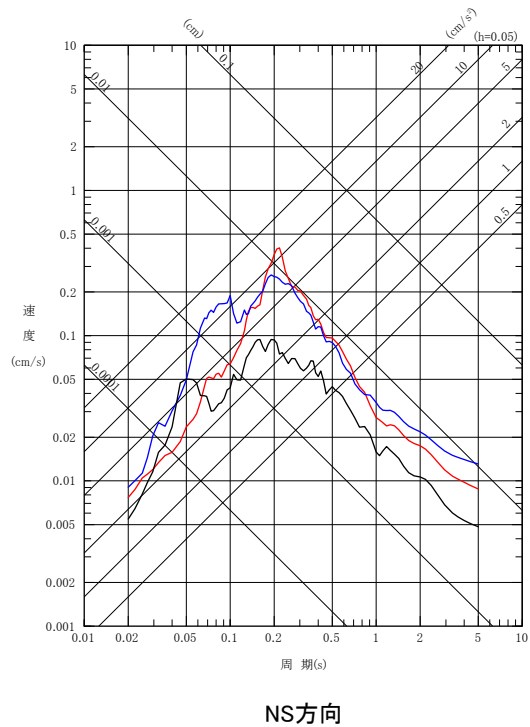
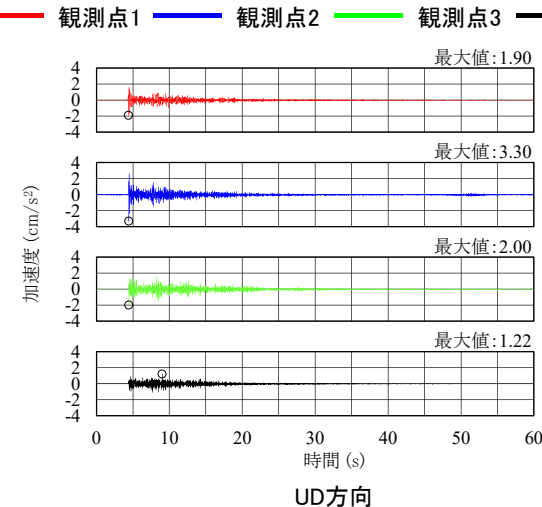
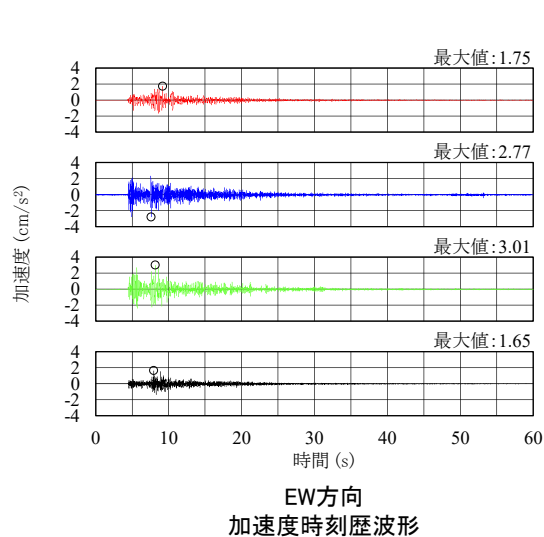
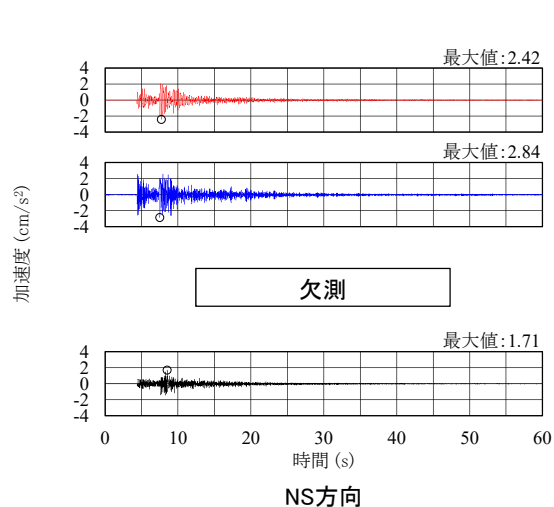
No.10



No.11

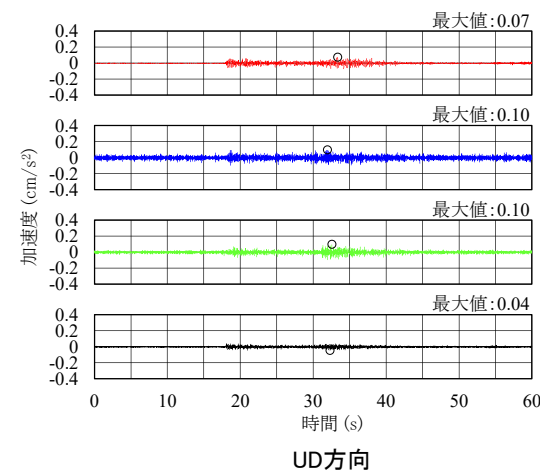
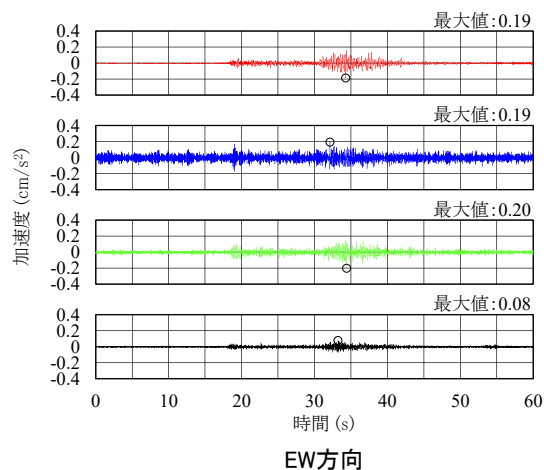
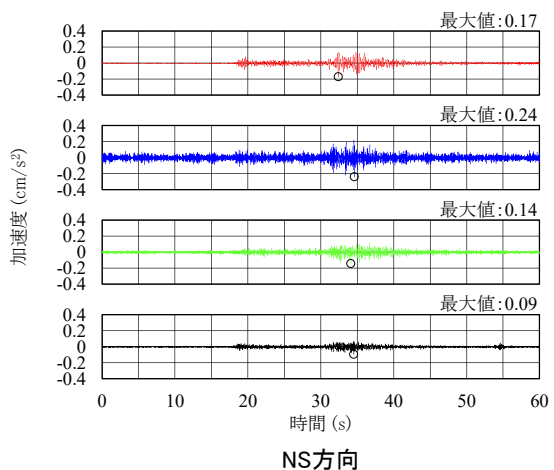


No.12

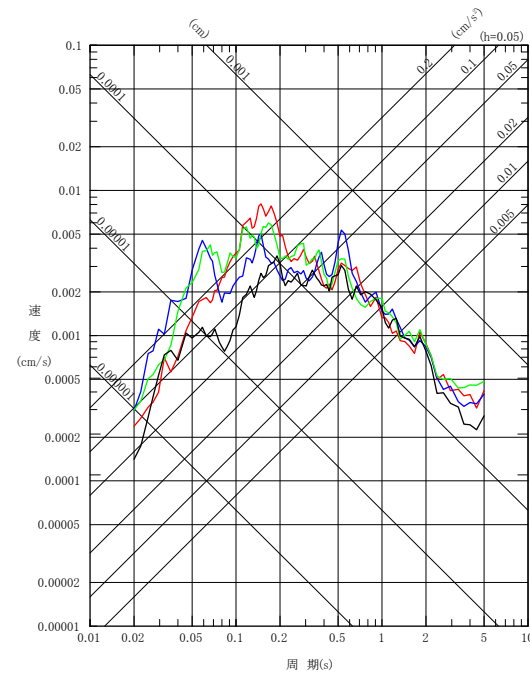
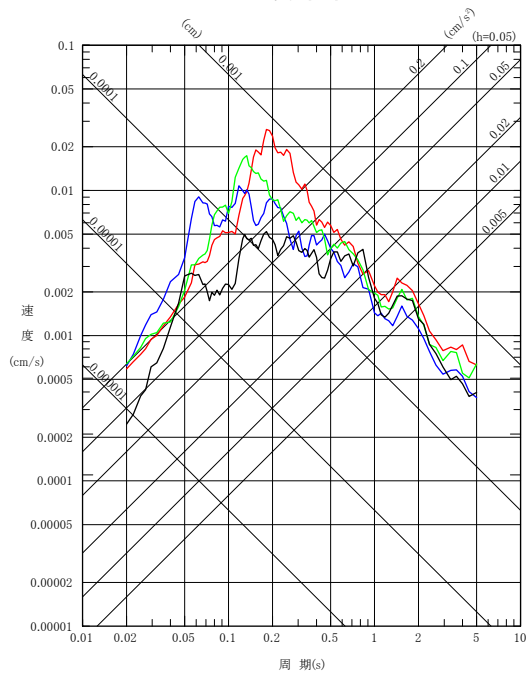
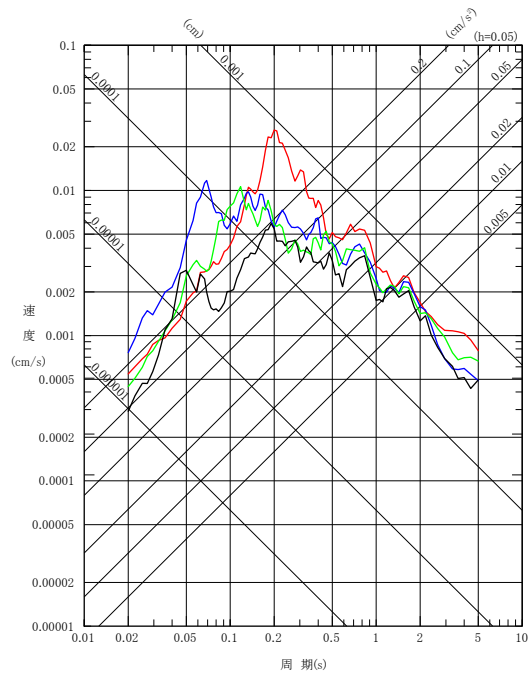


No.13

— 観測点1 — 観測点2 — 観測点3 — 観測点4



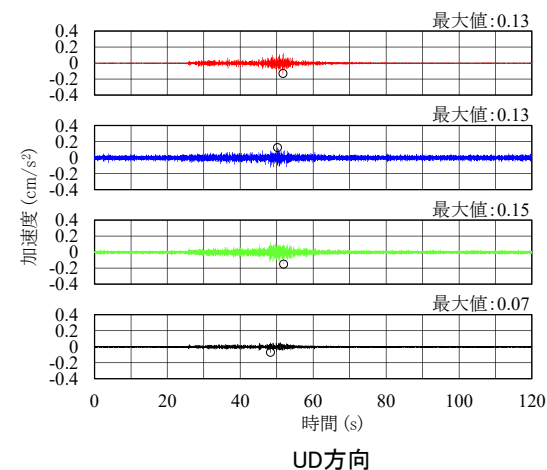
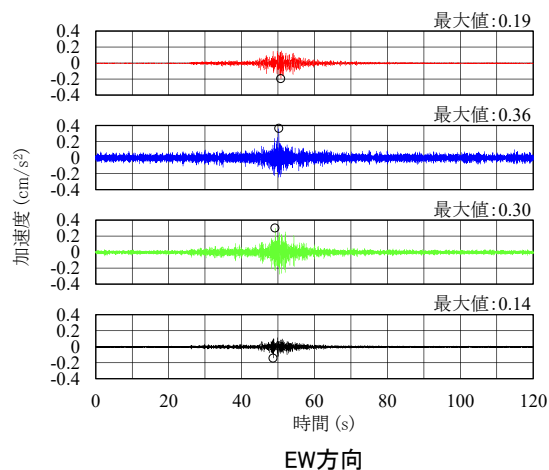
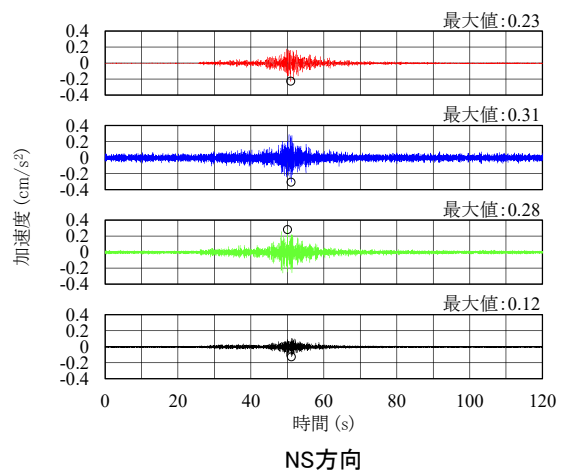
加速度時刻歴波形



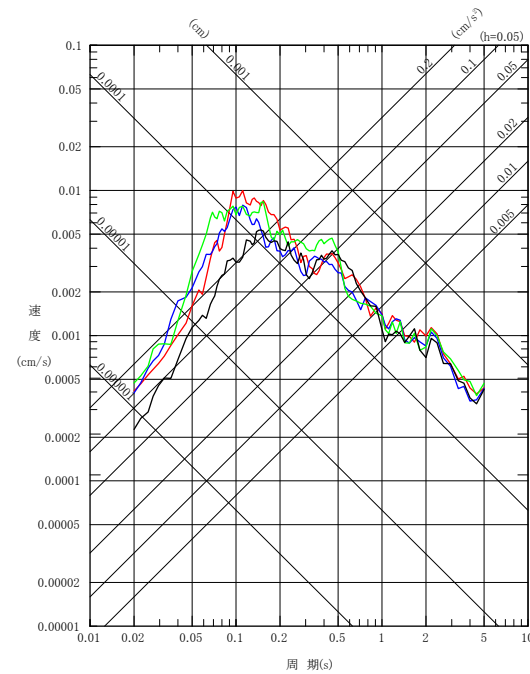
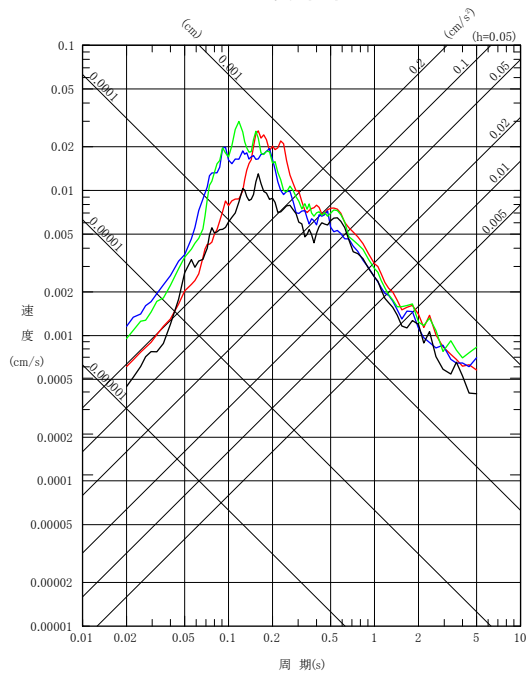
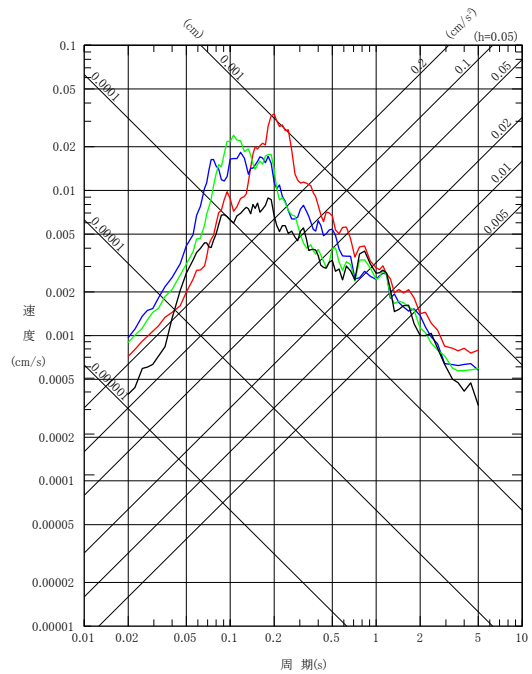
擬似速度応答スペクトル

No.14

— 観測点1 — 観測点2 — 観測点3 — 観測点4



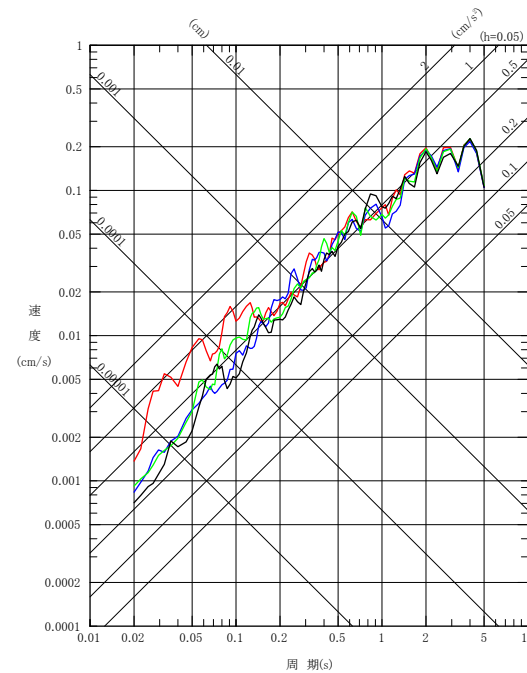
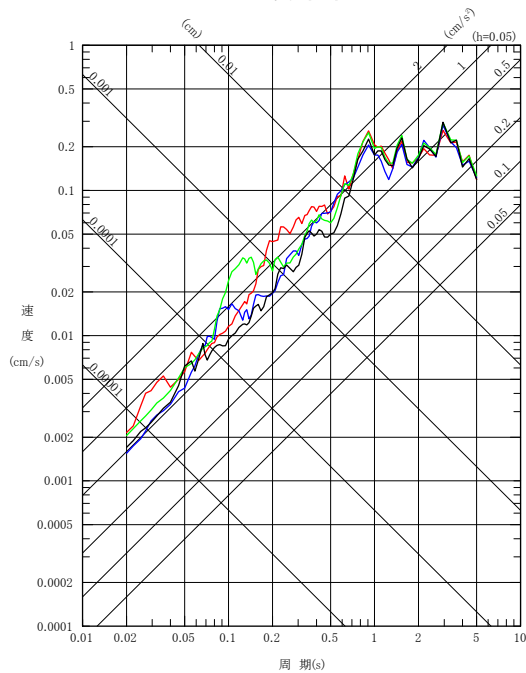
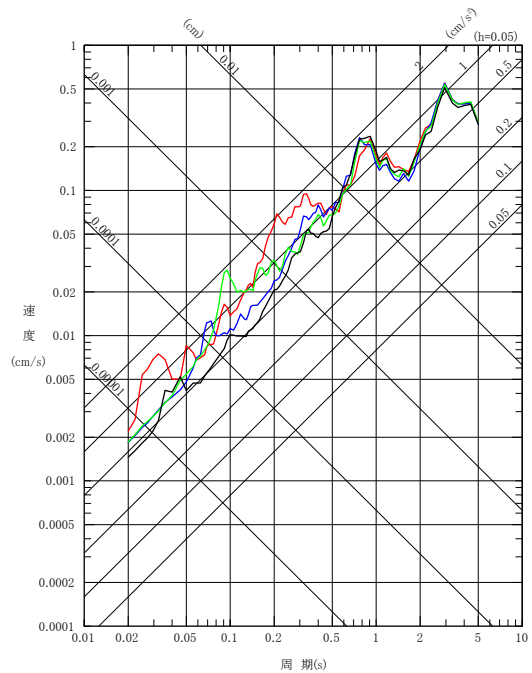
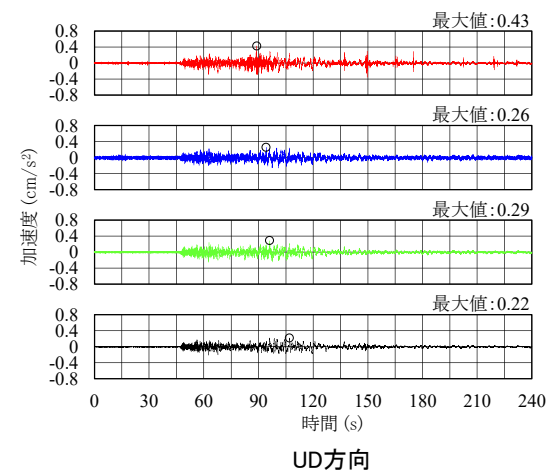
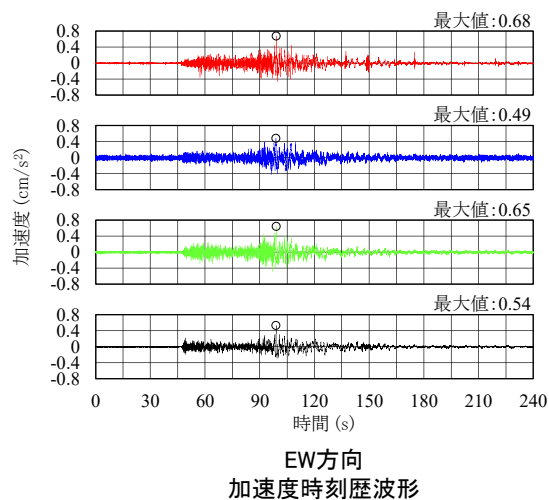
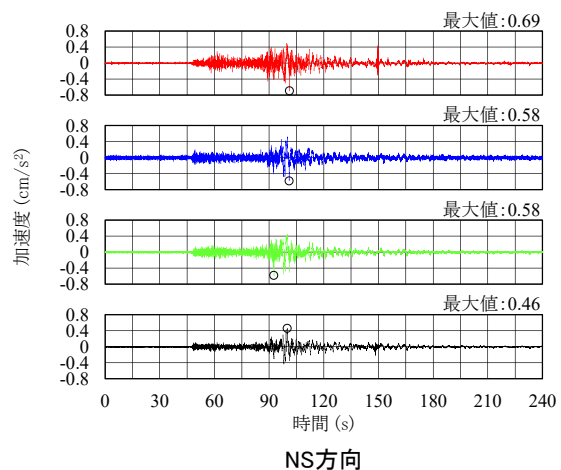
加速度時刻歴波形



擬似速度応答スペクトル

No.15

— 観測点1 — 観測点2 — 観測点3 — 観測点4



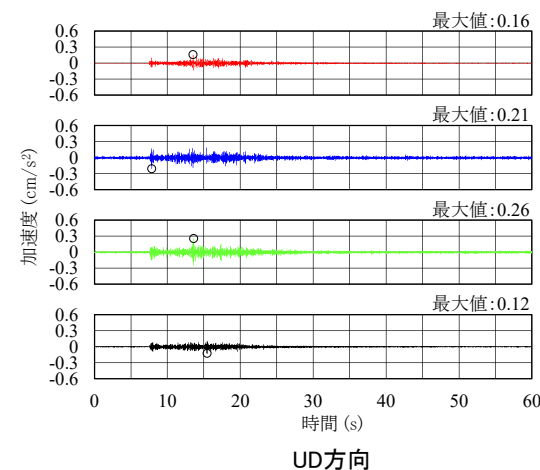
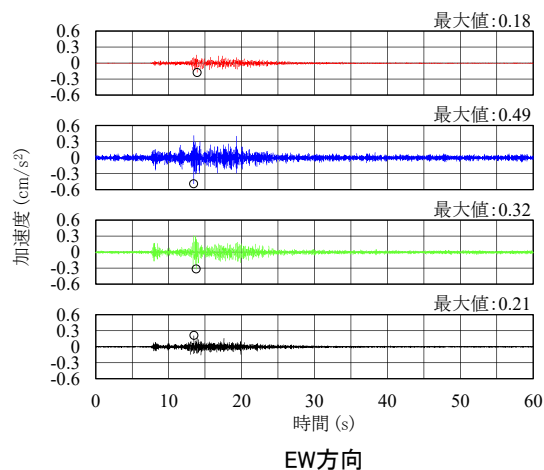
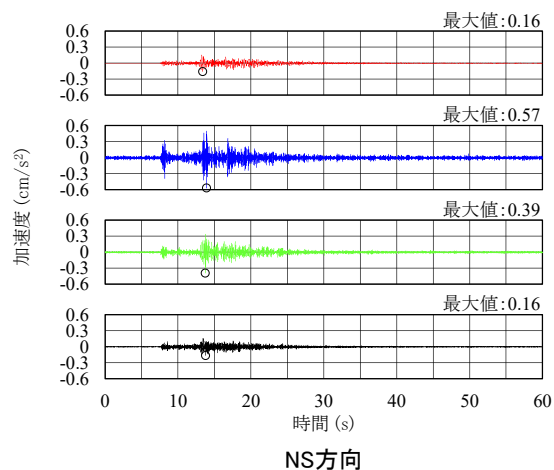
NS方向

EW方向
 擬似速度応答スペクトル

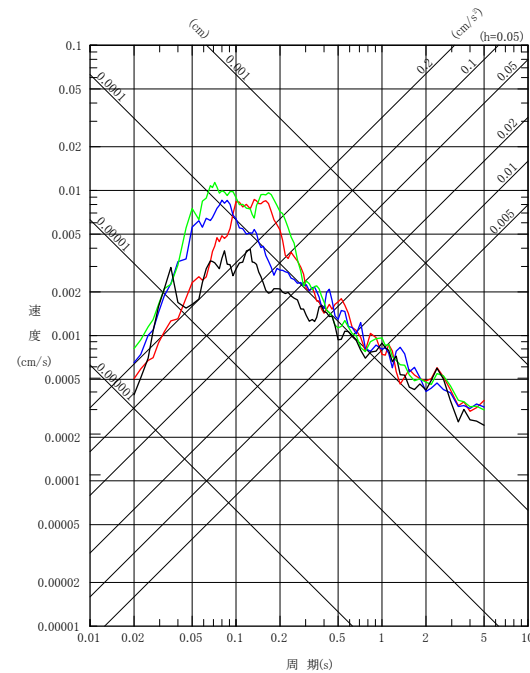
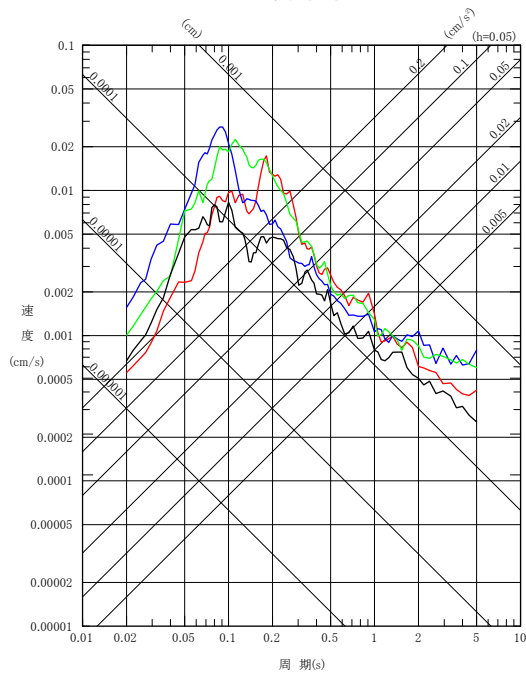
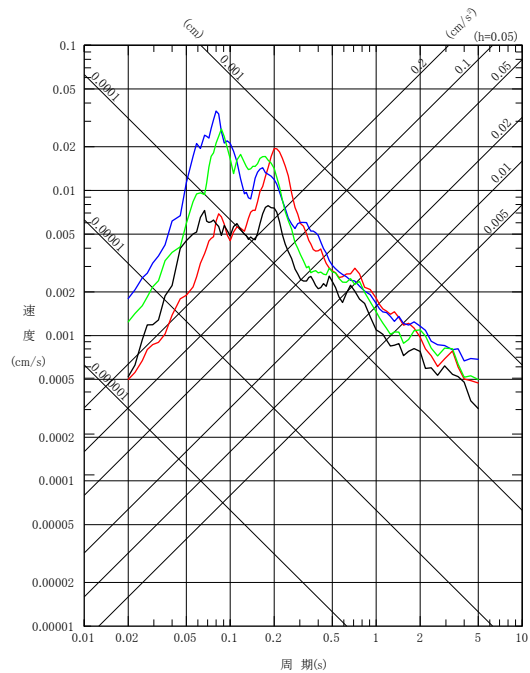
UD方向

No.16

観測点1 観測点2 観測点3 観測点4



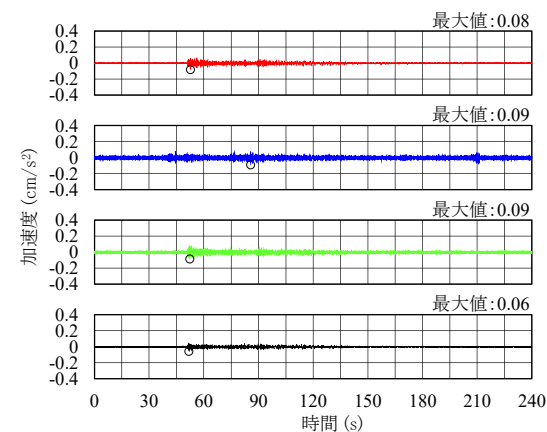
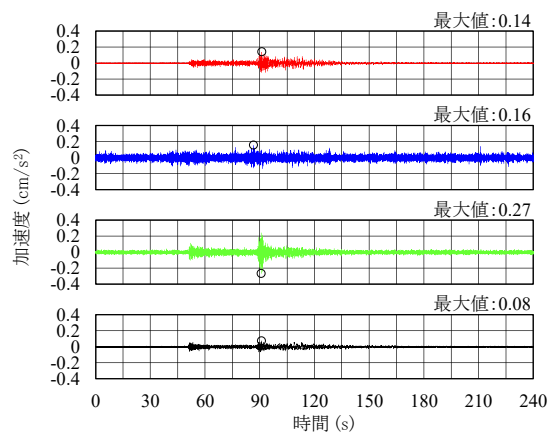
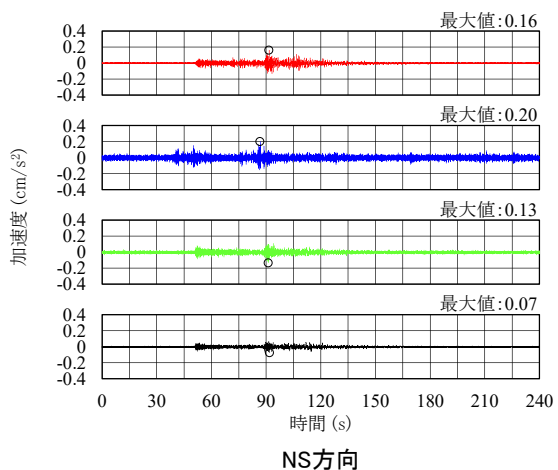
加速度時刻歴波形



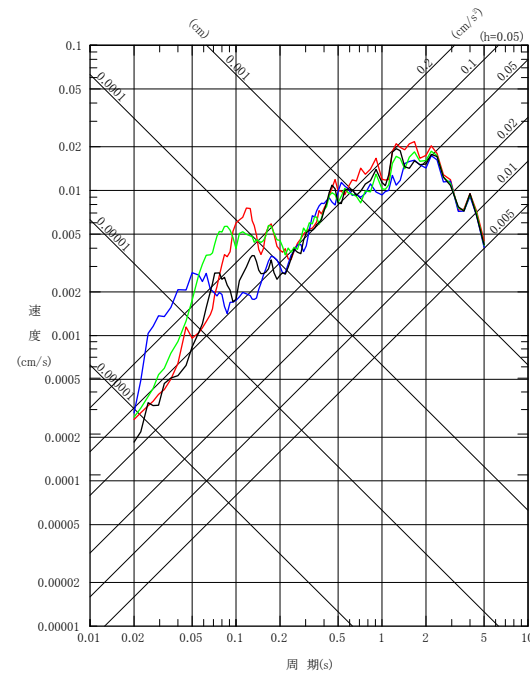
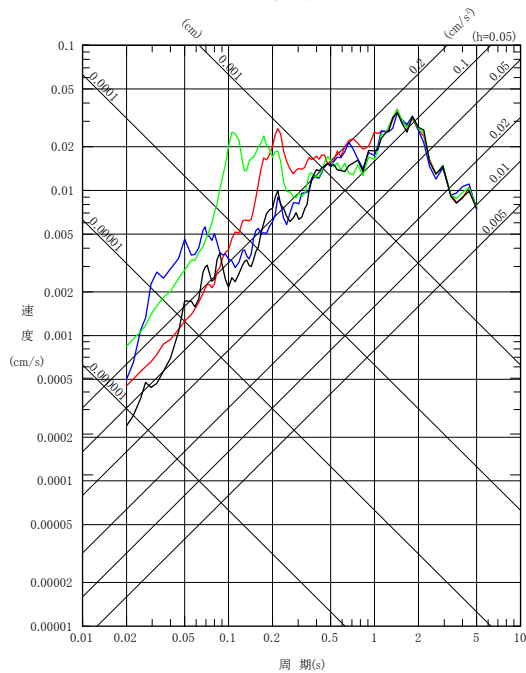
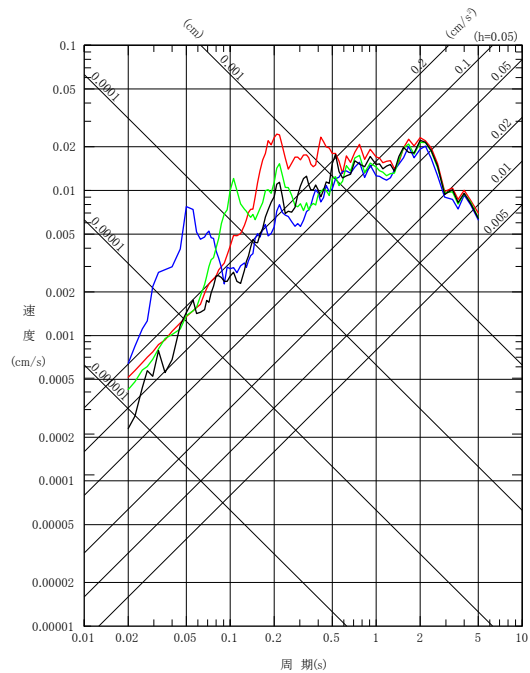
擬似速度応答スペクトル

No.17

— 観測点1 — 観測点2 — 観測点3 — 観測点4



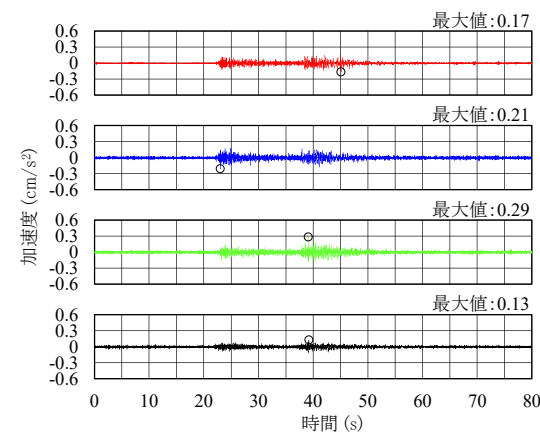
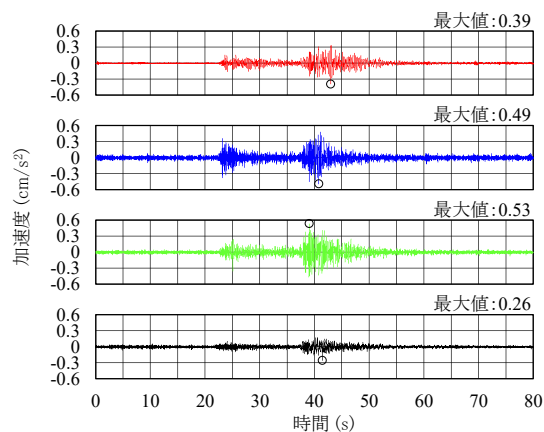
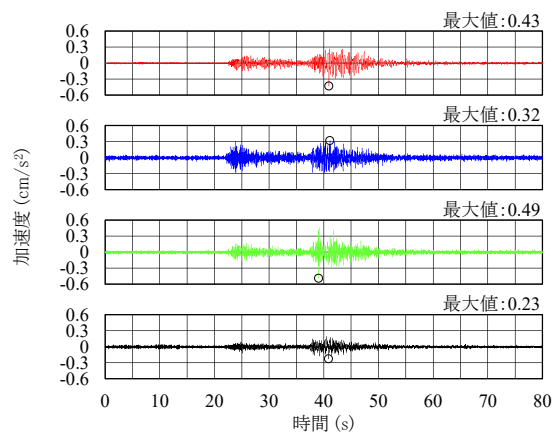
加速度時刻歴波形



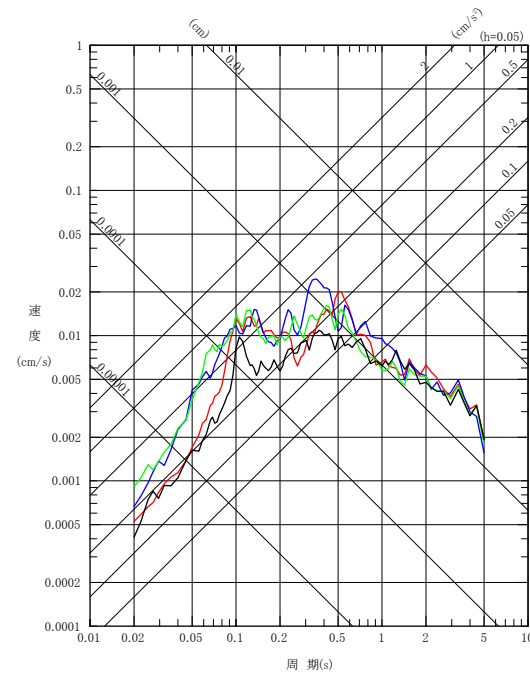
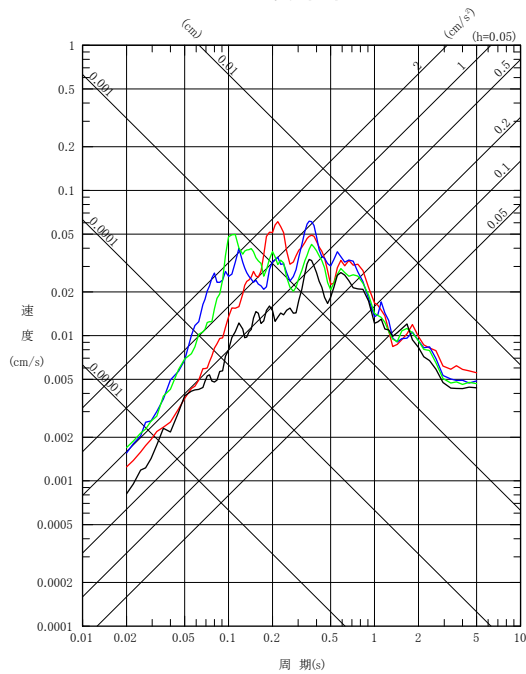
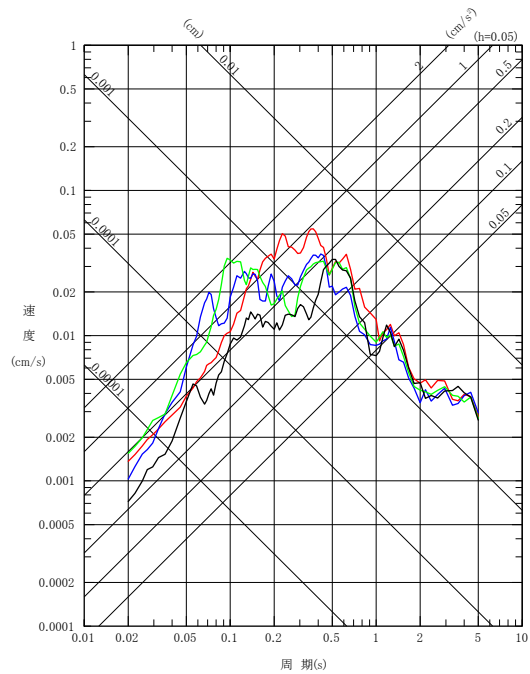
擬似速度応答スペクトル

No.18

— 観測点1 — 観測点2 — 観測点3 — 観測点4



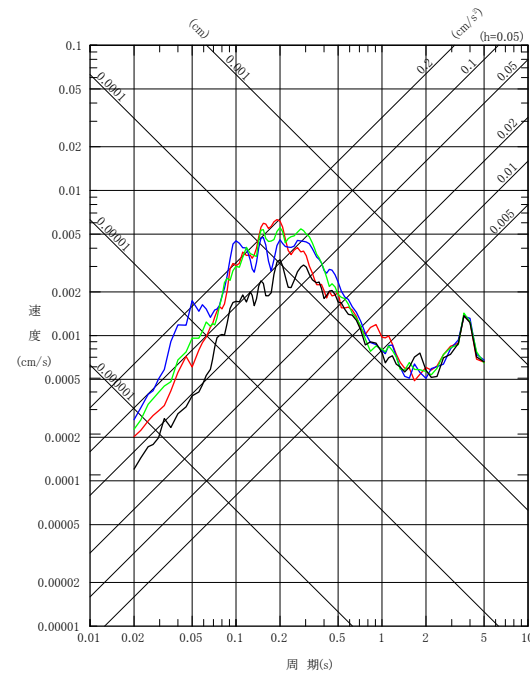
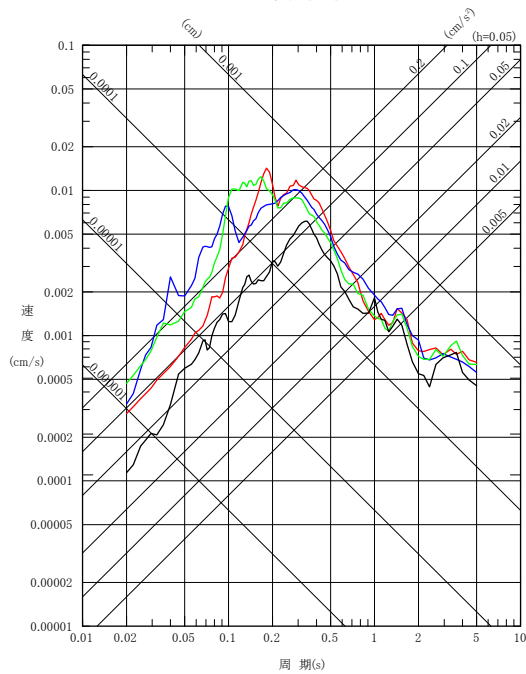
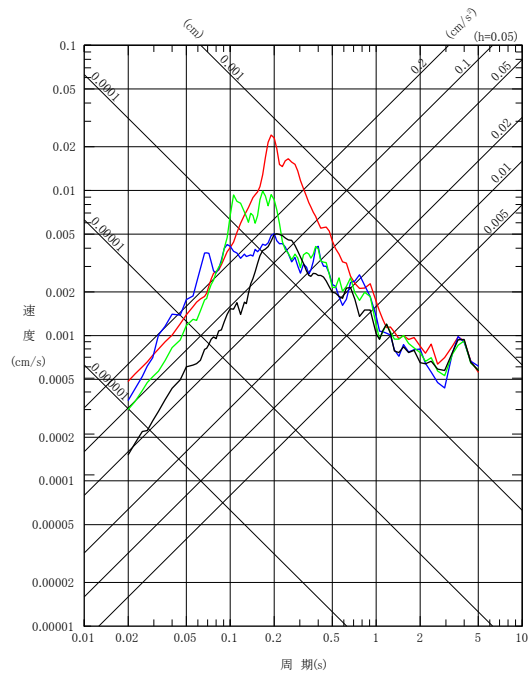
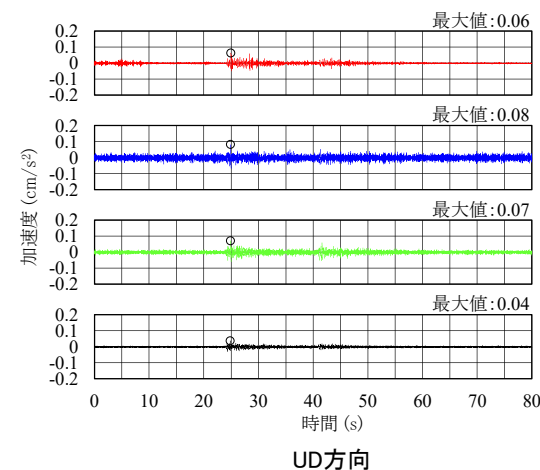
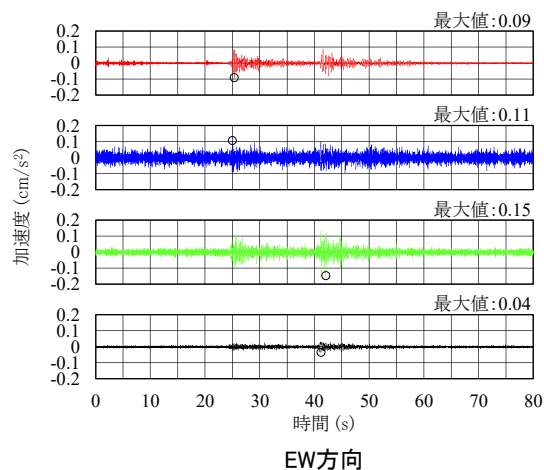
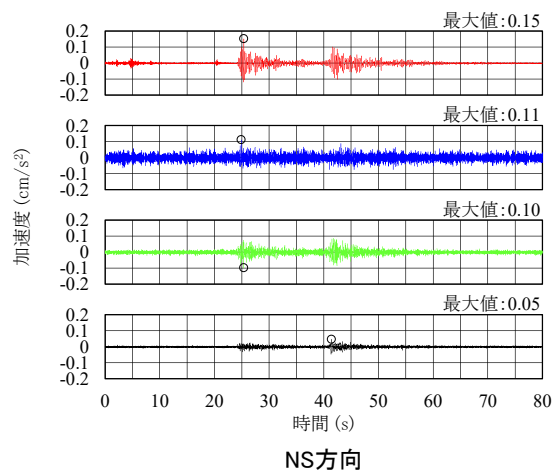
加速度時刻歴波形



擬似速度応答スペクトル

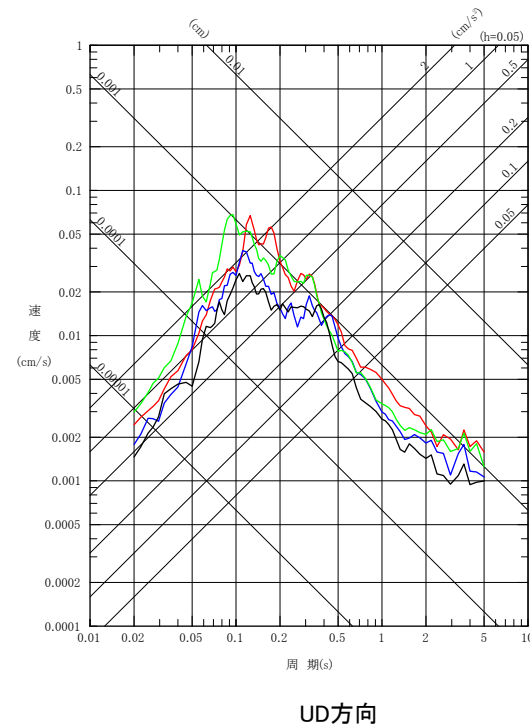
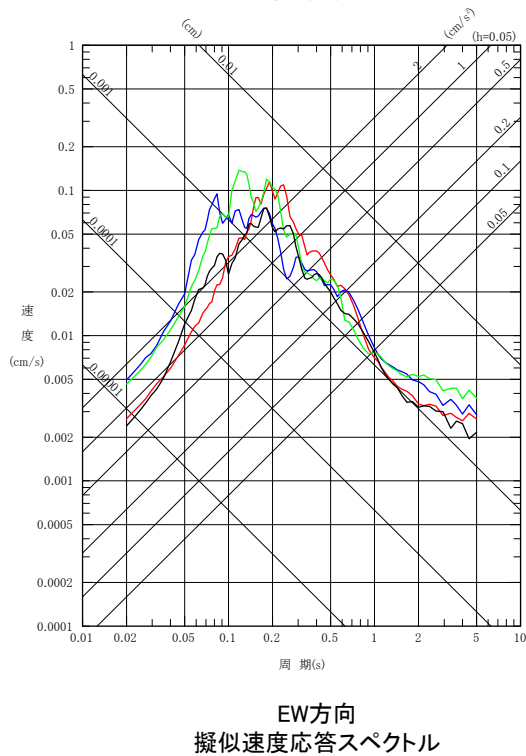
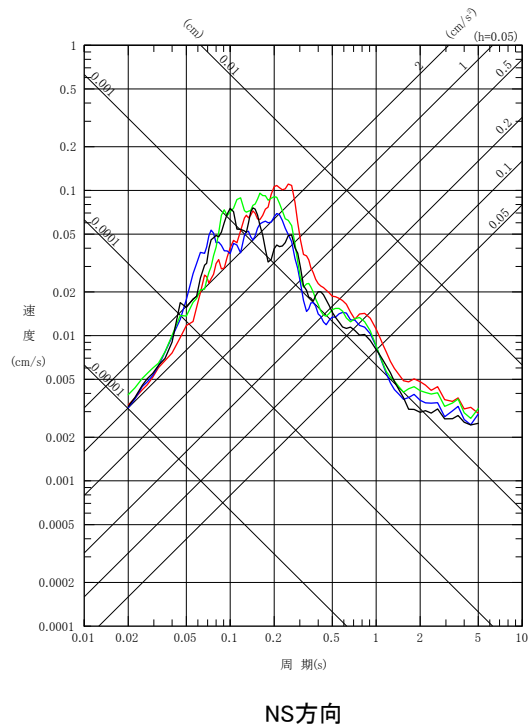
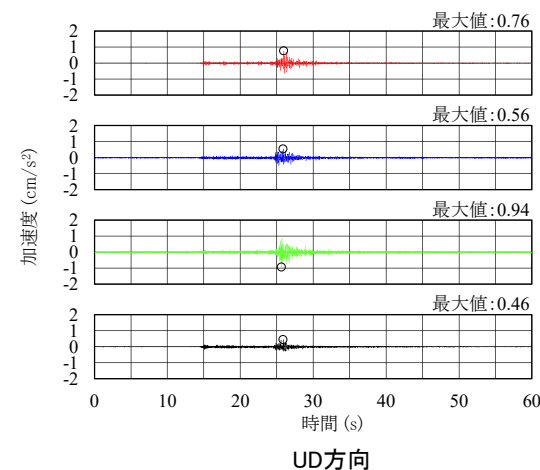
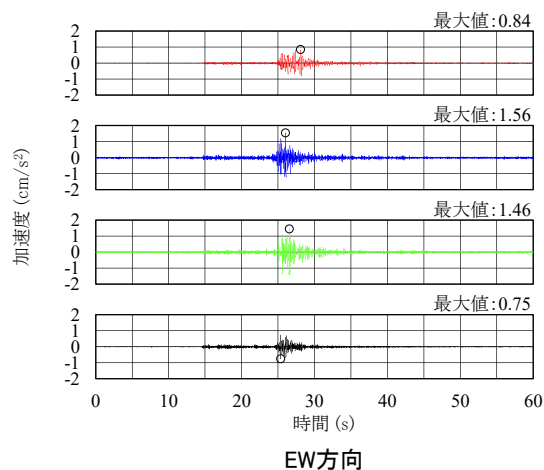
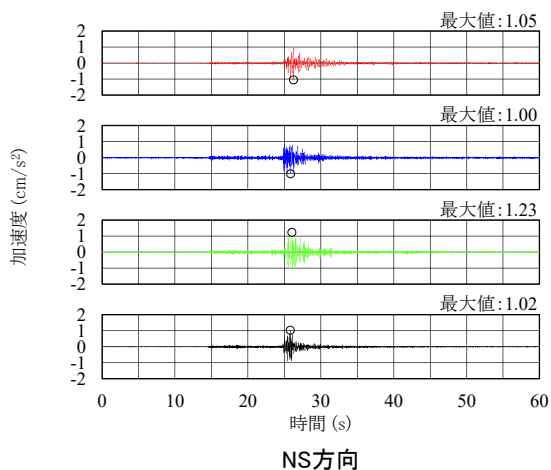
No.19

観測点1 観測点2 観測点3 観測点4



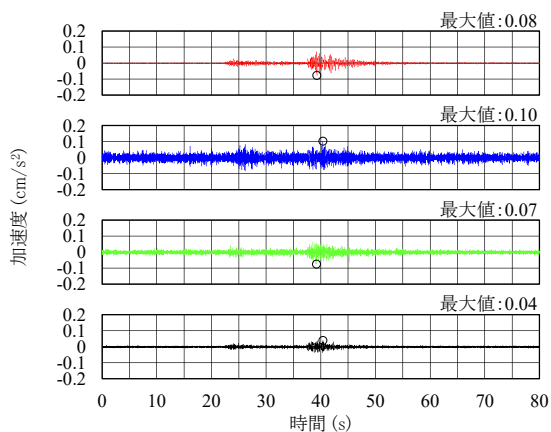
No.20

— 観測点1 — 観測点2 — 観測点3 — 観測点4

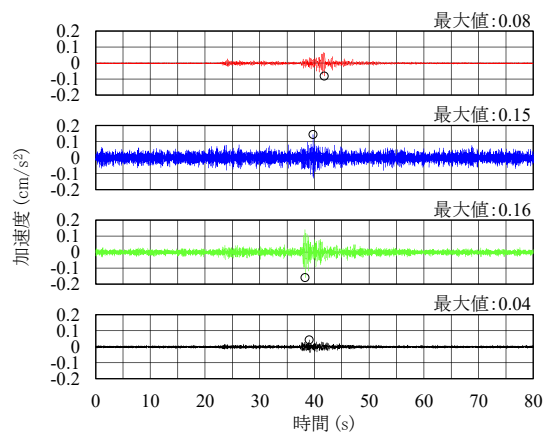


No.21

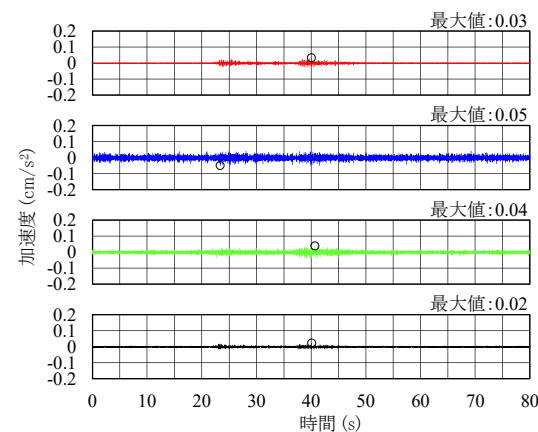
観測点1 観測点2 観測点3 観測点4



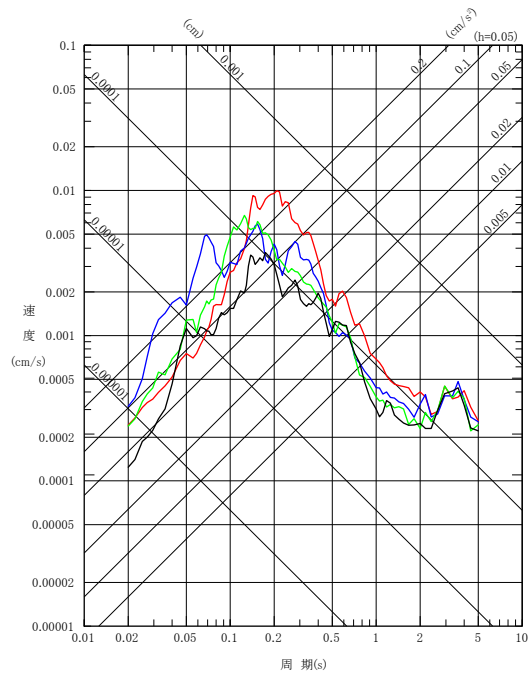
NS方向



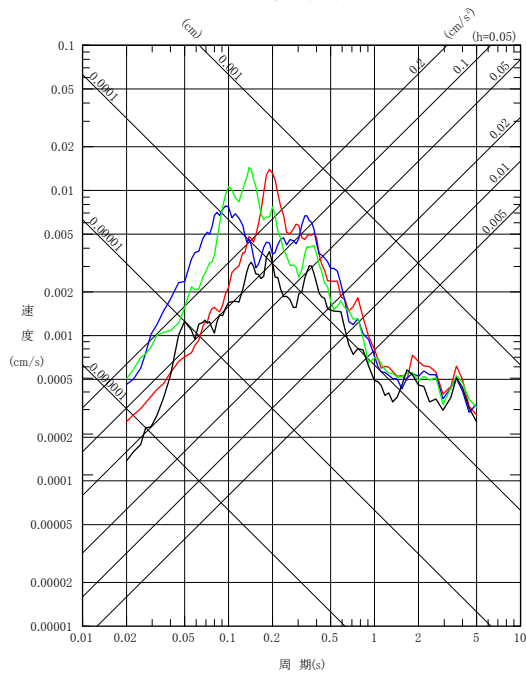
EW方向
加速度時刻歴波形



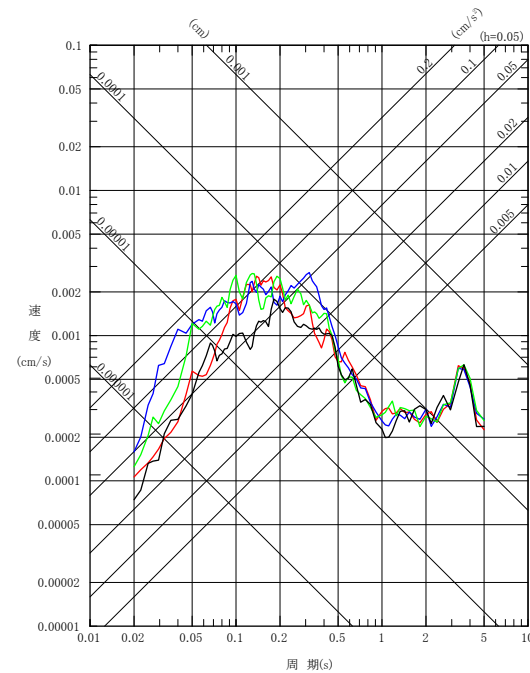
UD方向



NS方向



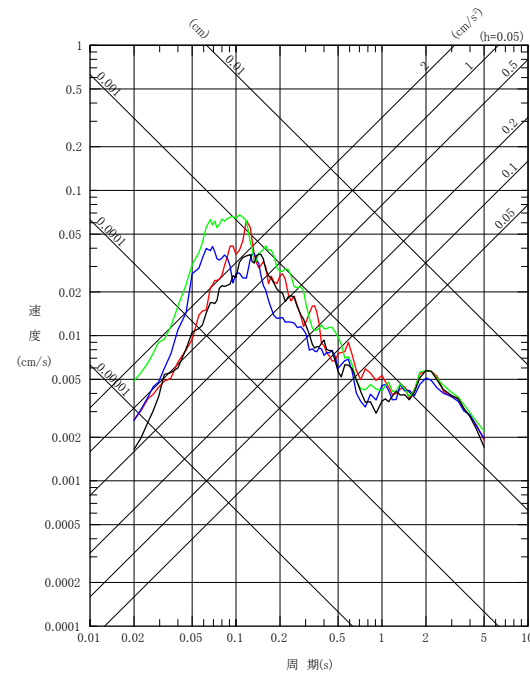
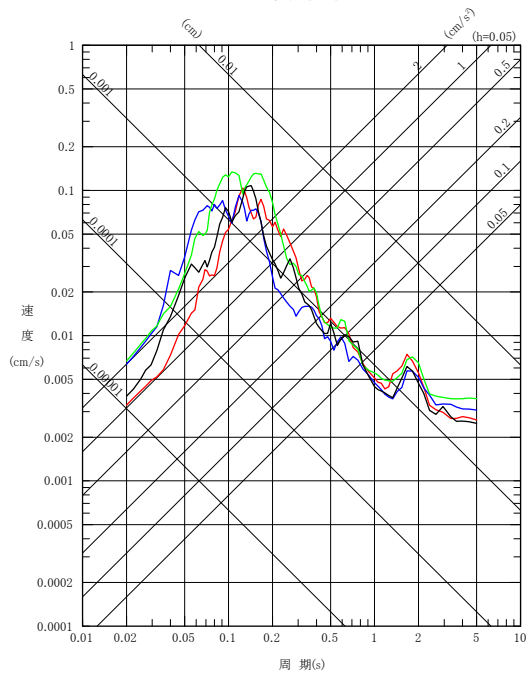
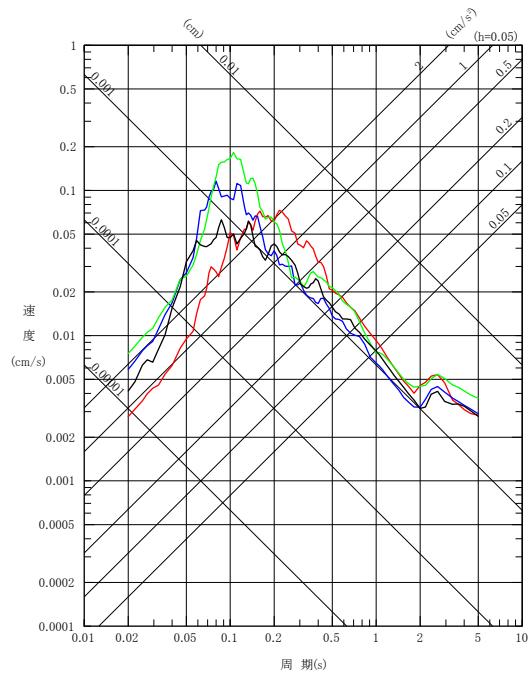
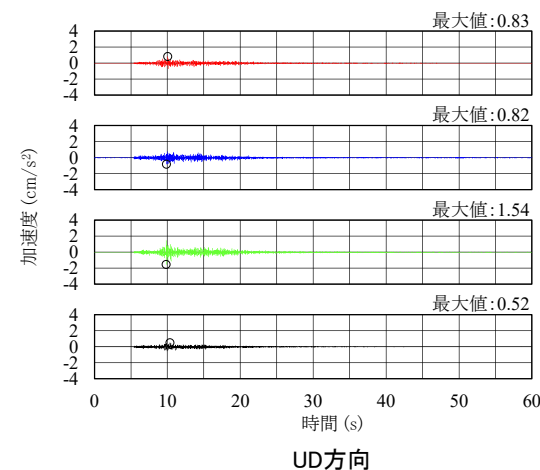
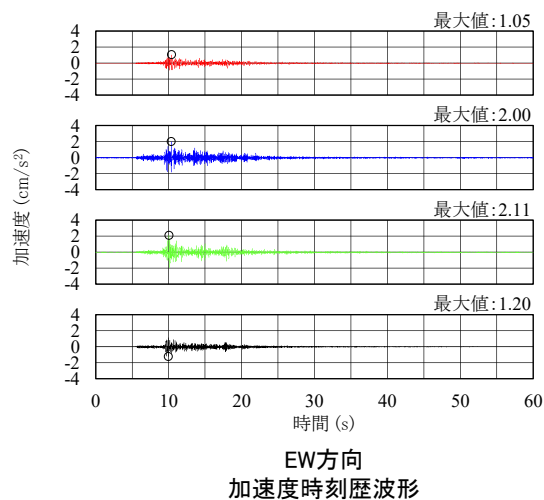
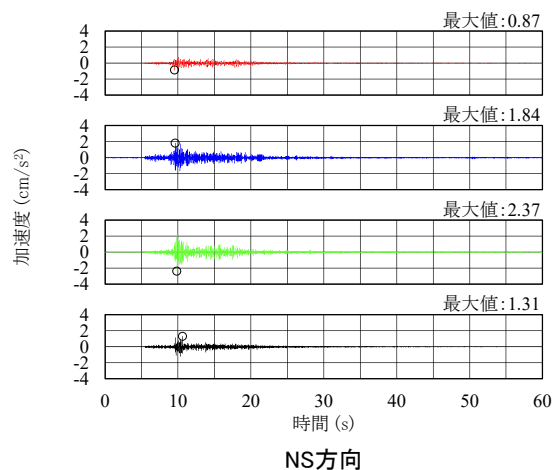
EW方向
擬似速度応答スペクトル



UD方向

No.22

— 観測点1 — 観測点2 — 観測点3 — 観測点4



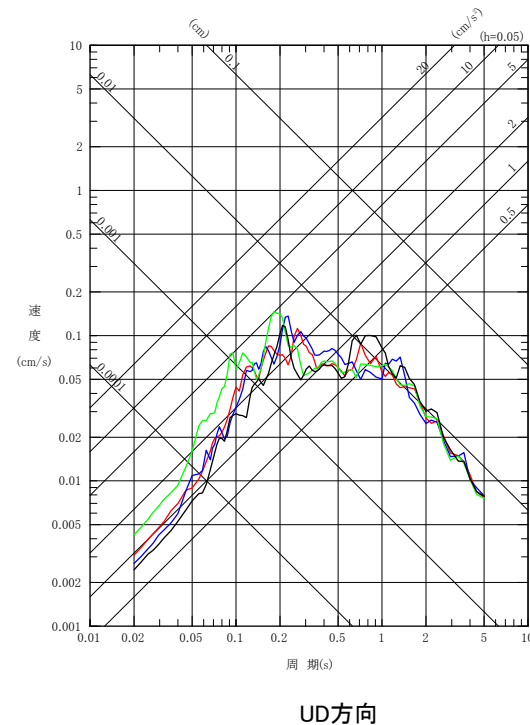
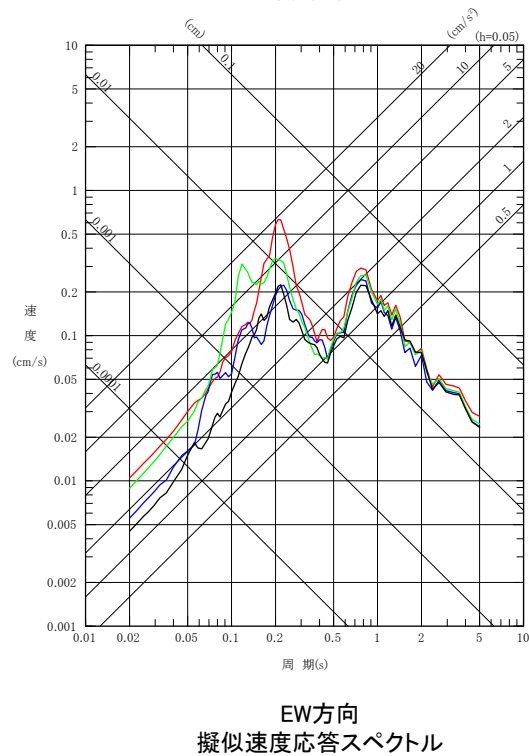
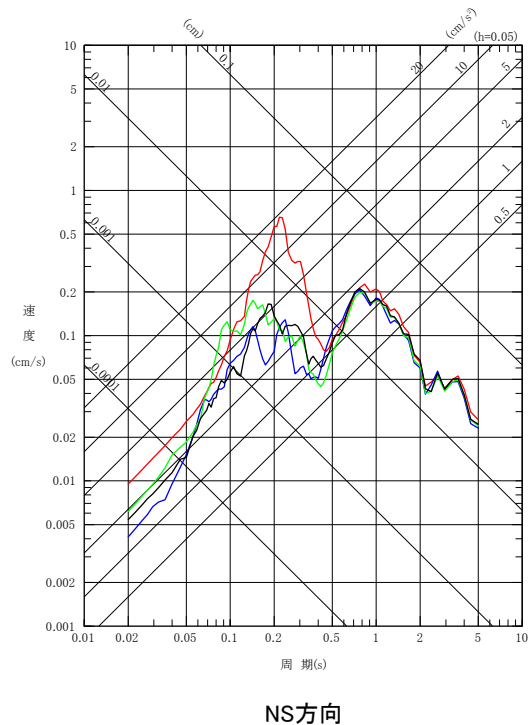
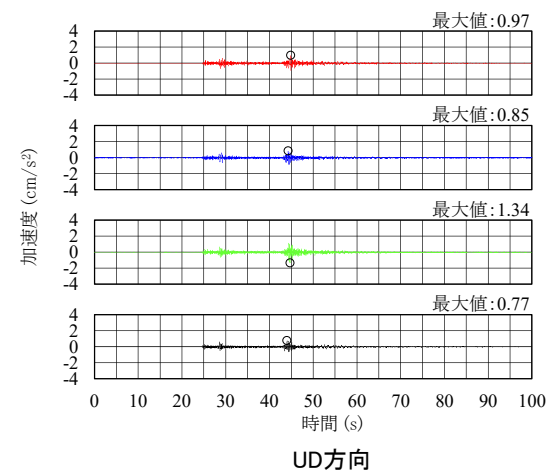
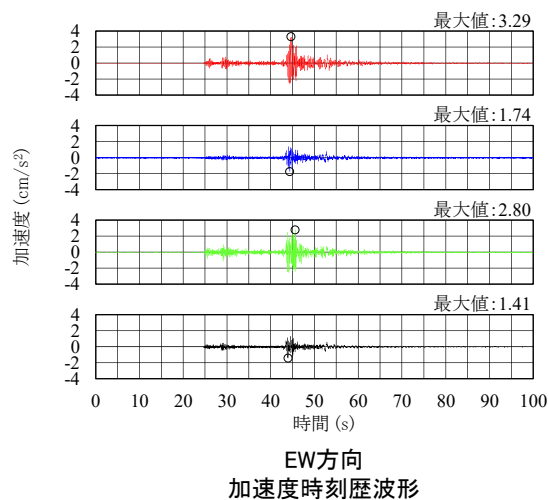
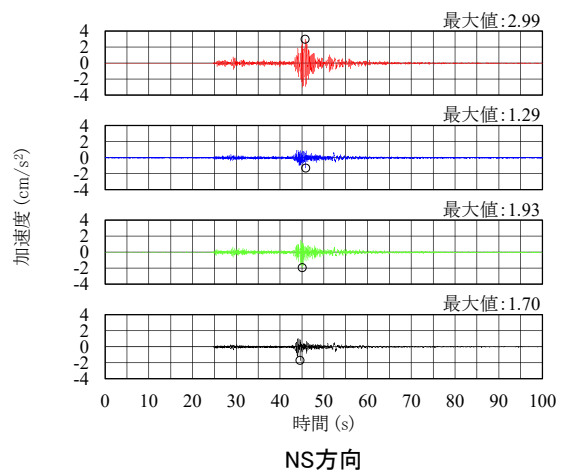
NS方向

EW方向
 擬似速度応答スペクトル

UD方向

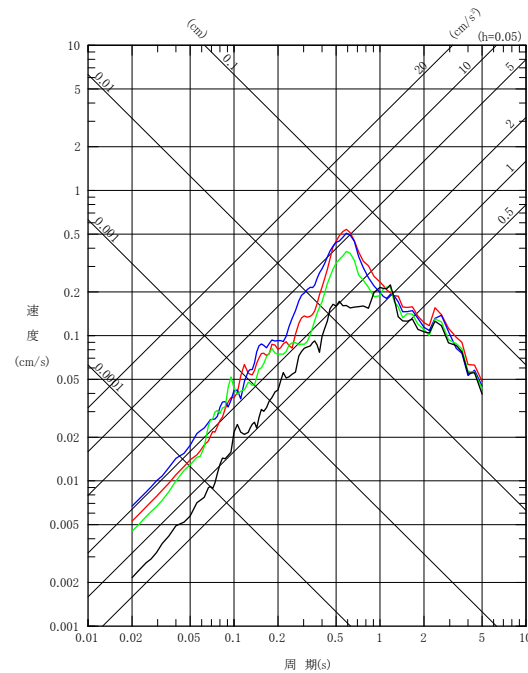
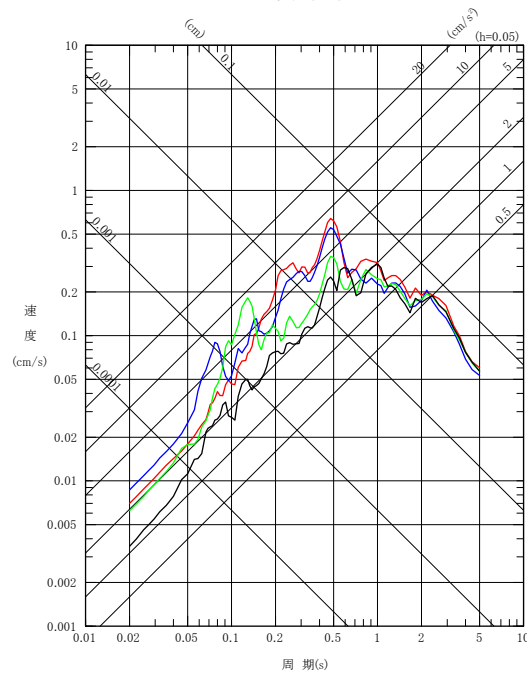
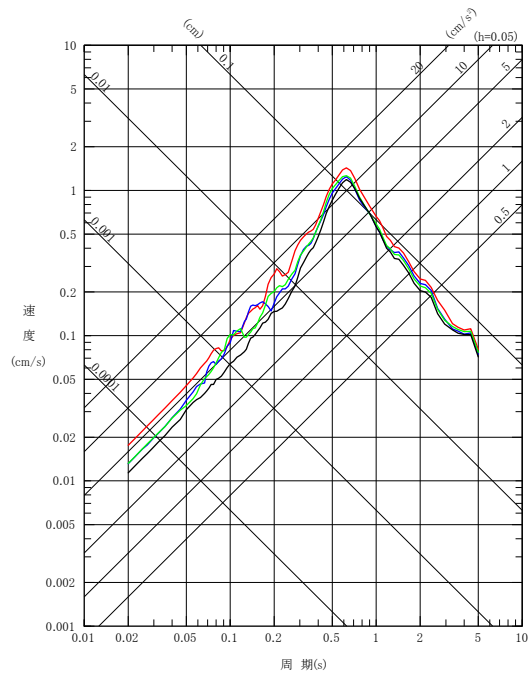
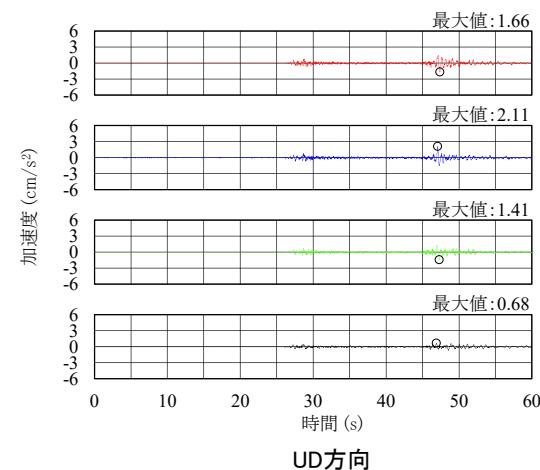
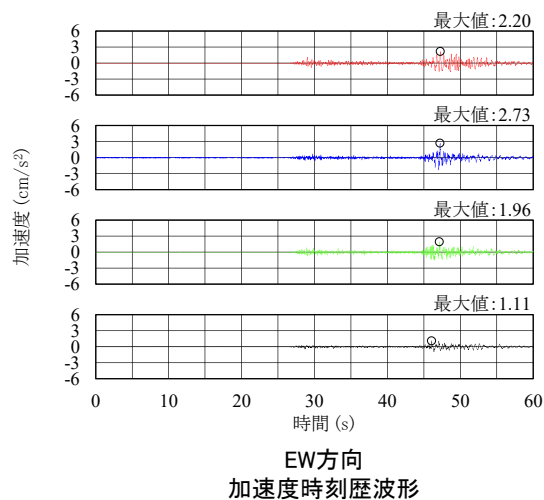
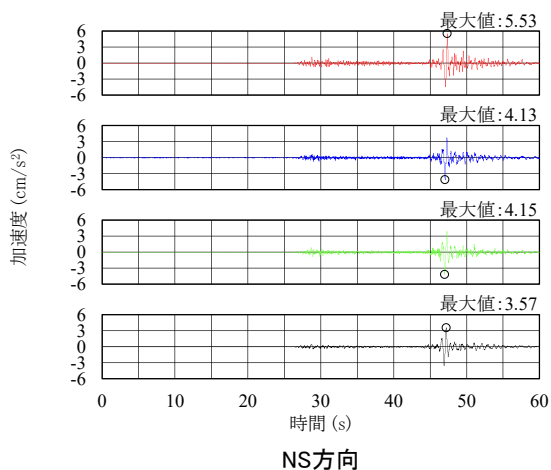
No.23

— 観測点1 — 観測点2 — 観測点3 — 観測点4



No.24

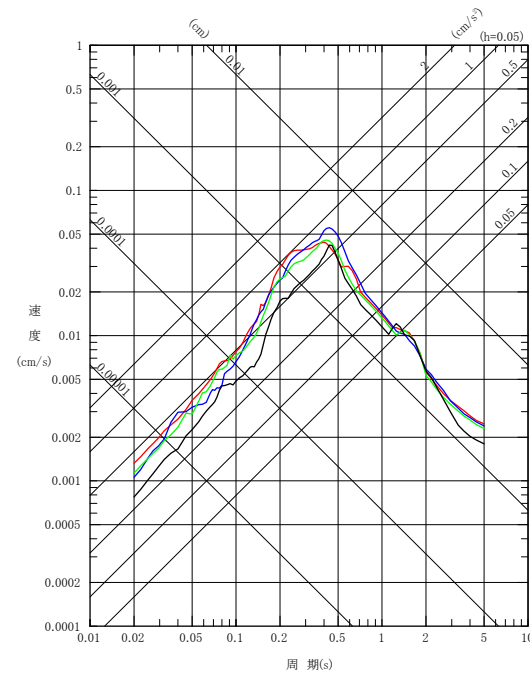
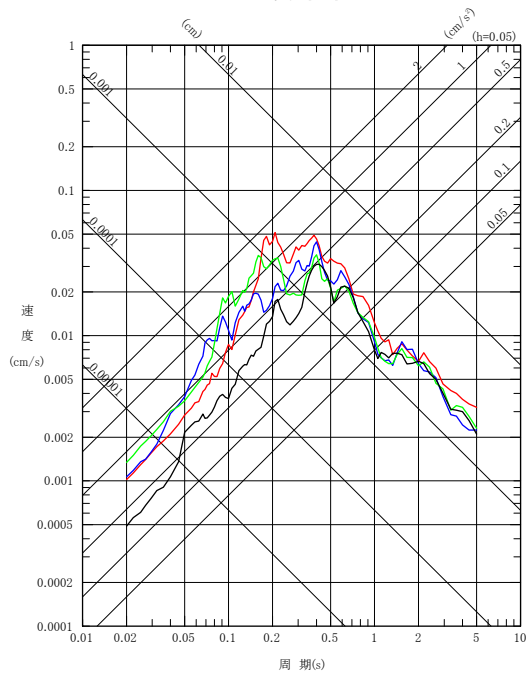
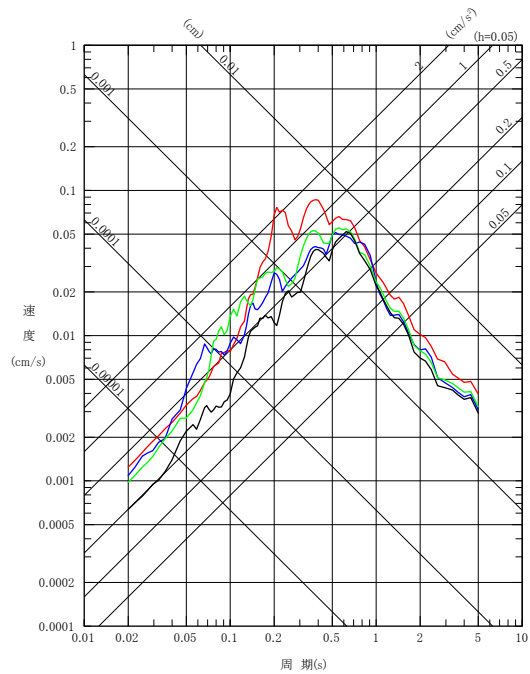
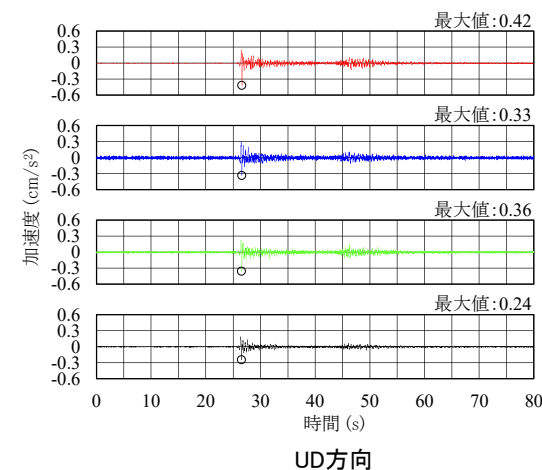
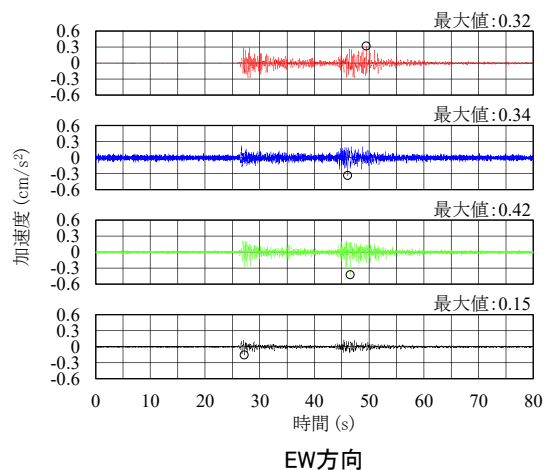
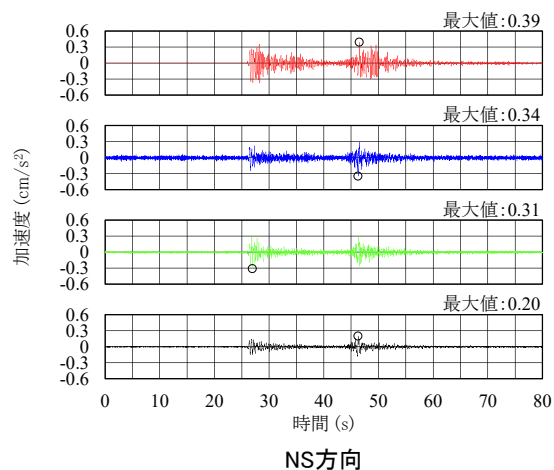
— 観測点1 — 観測点2 — 観測点3 — 観測点4



擬似速度応答スペクトル

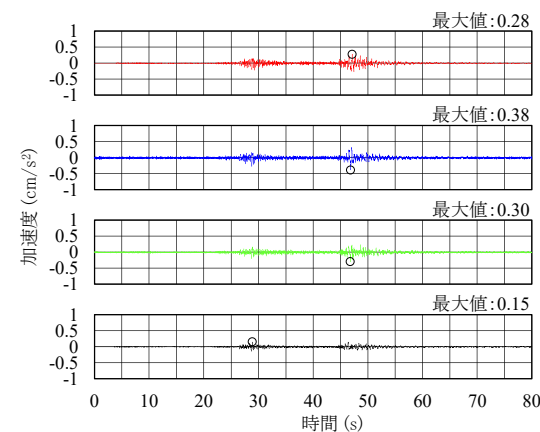
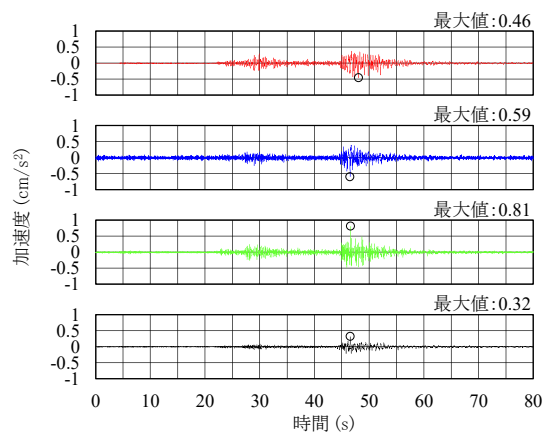
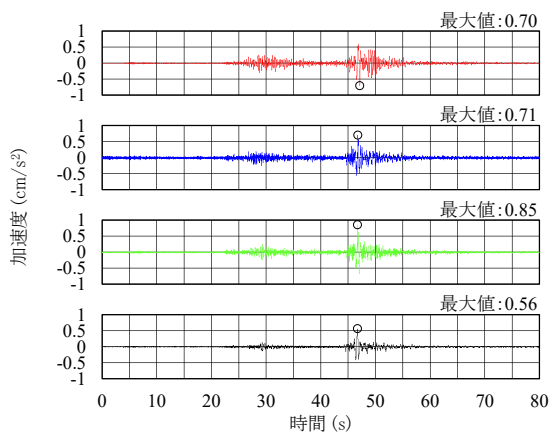
No.25

— 観測点1 — 観測点2 — 観測点3 — 観測点4

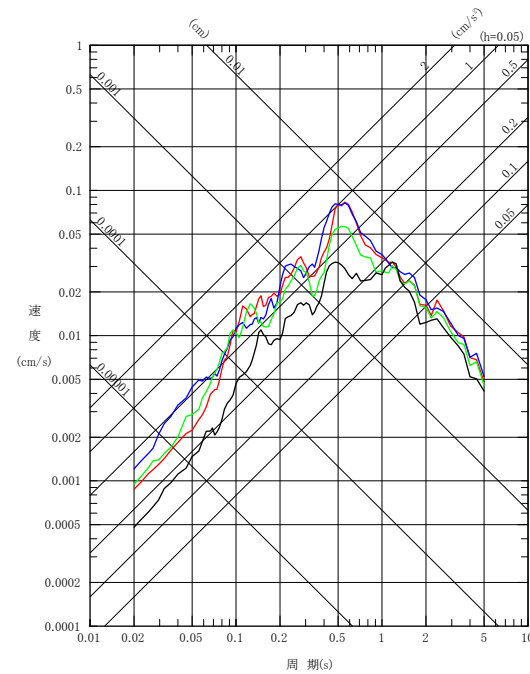
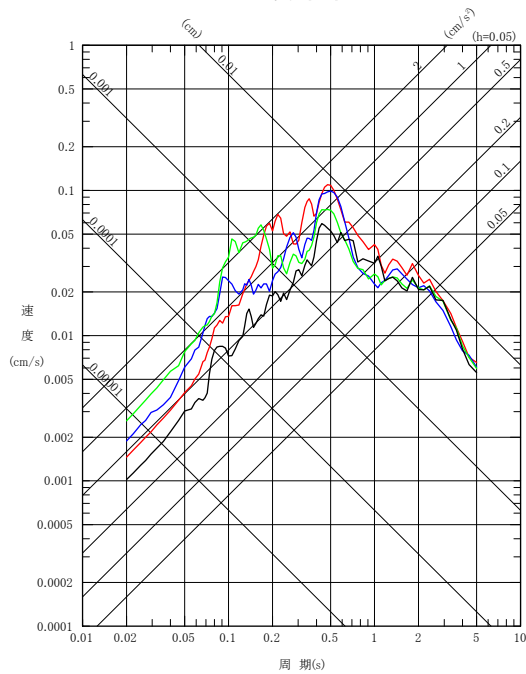
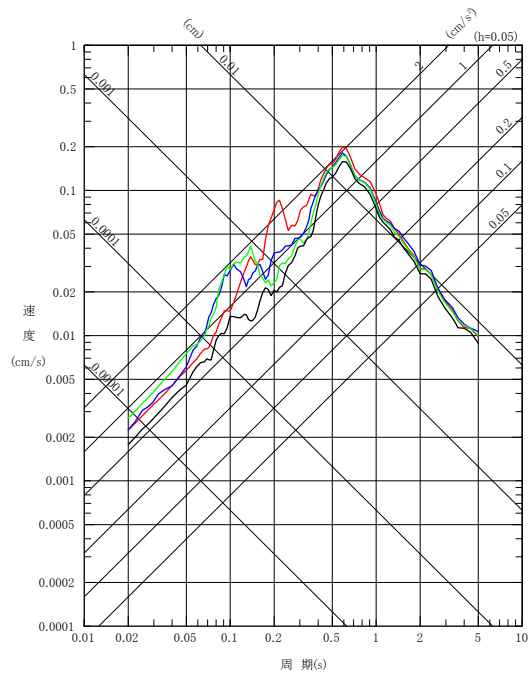


No.26

— 観測点1 — 観測点2 — 観測点3 — 観測点4



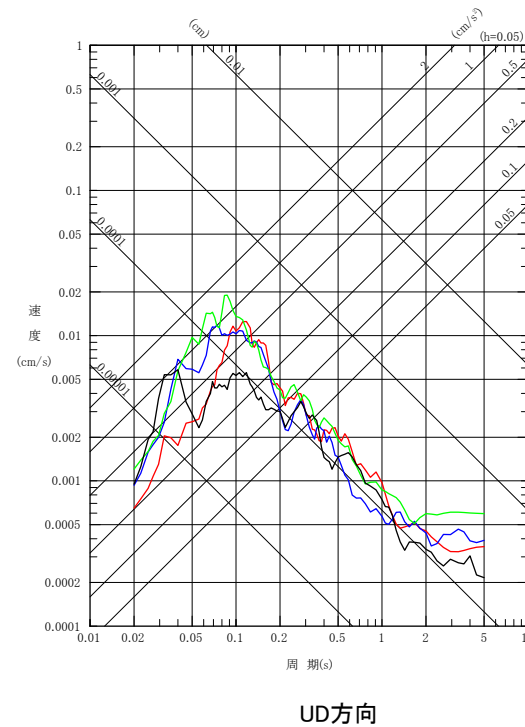
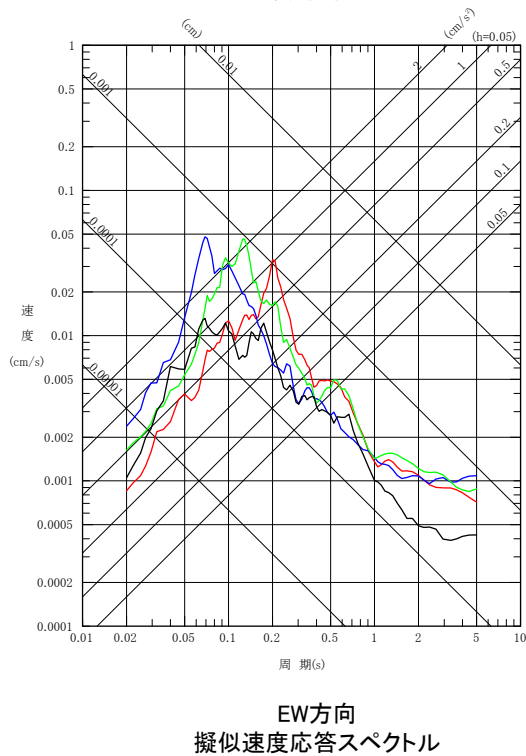
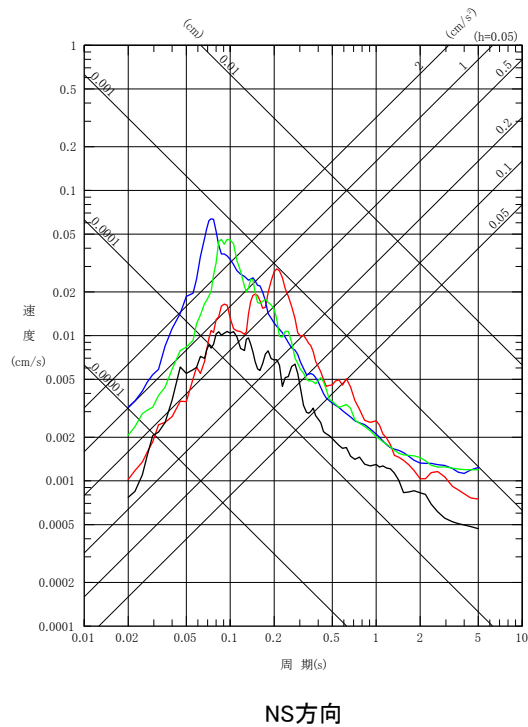
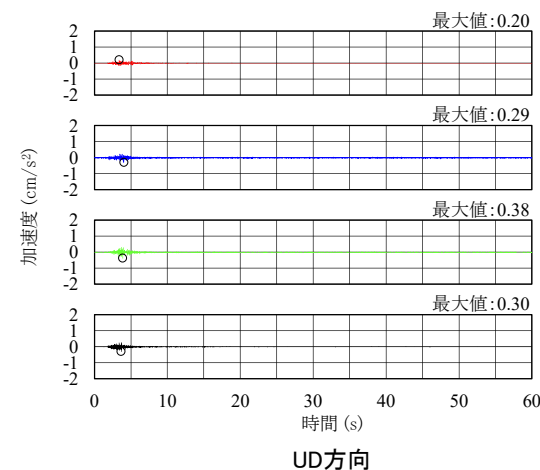
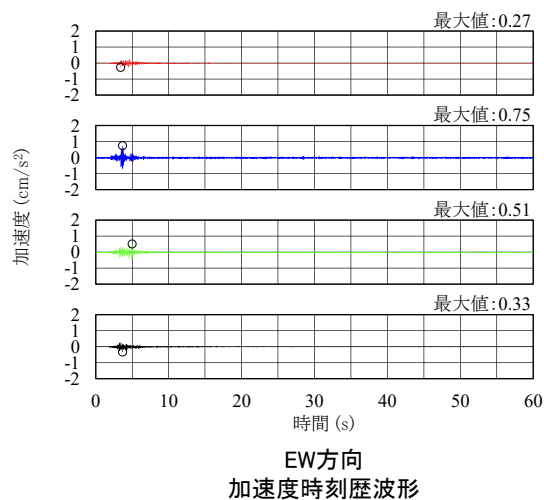
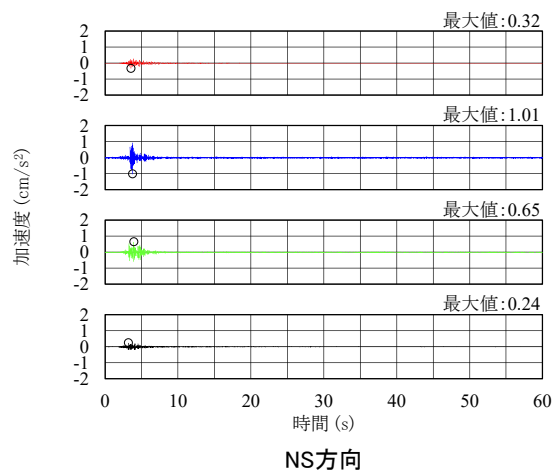
加速度時刻歴波形



擬似速度応答スペクトル

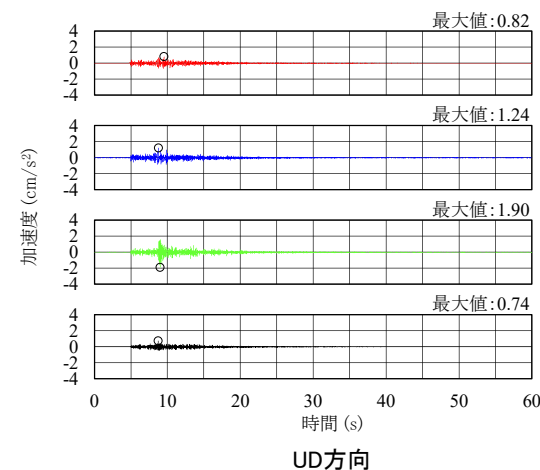
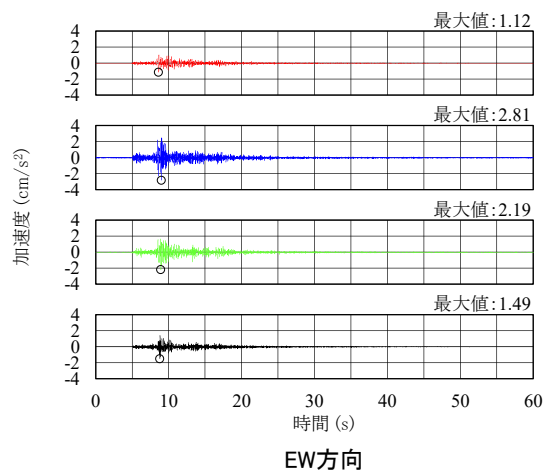
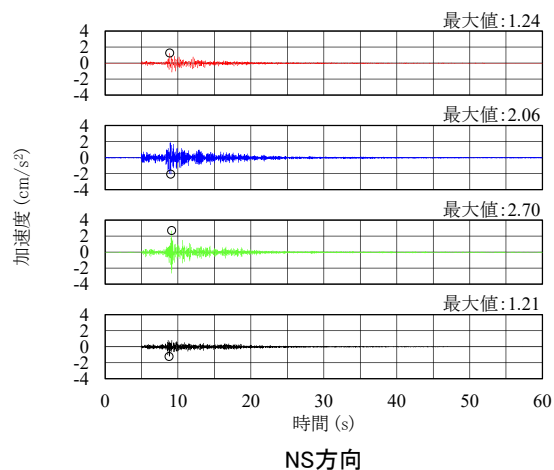
No.27

— 観測点1 — 観測点2 — 観測点3 — 観測点4

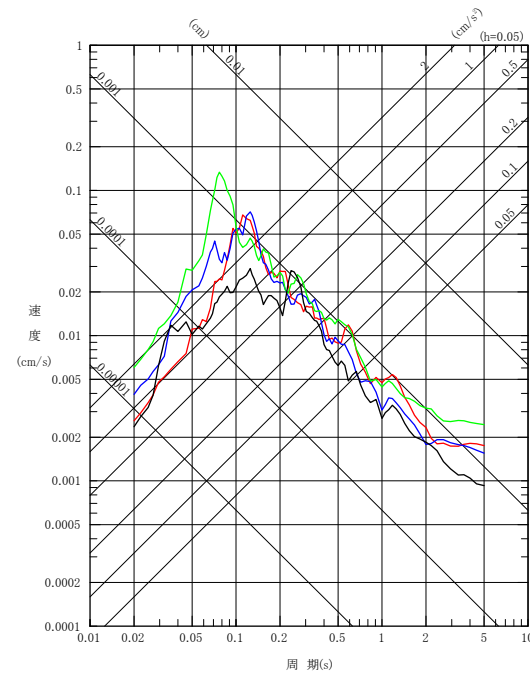
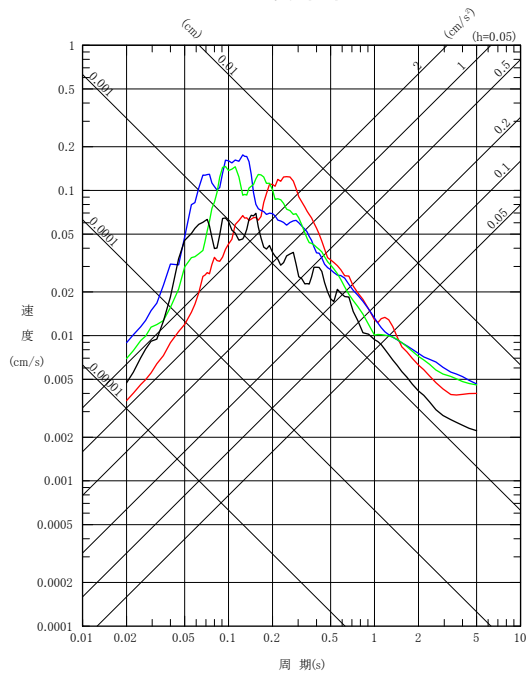
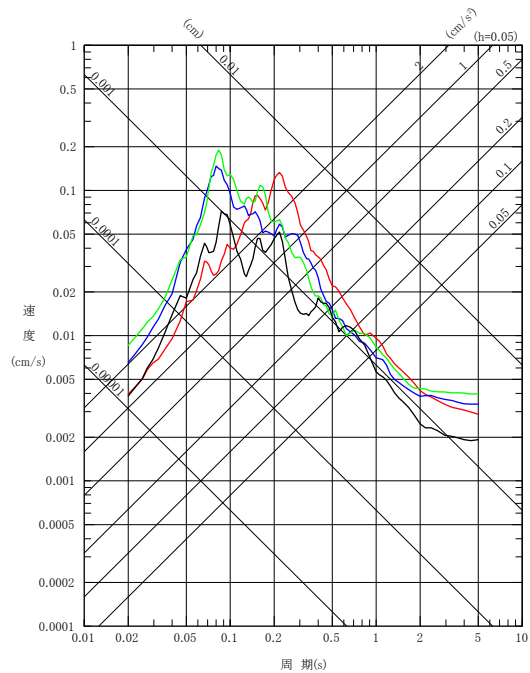


No.28

観測点1 観測点2 観測点3 観測点4



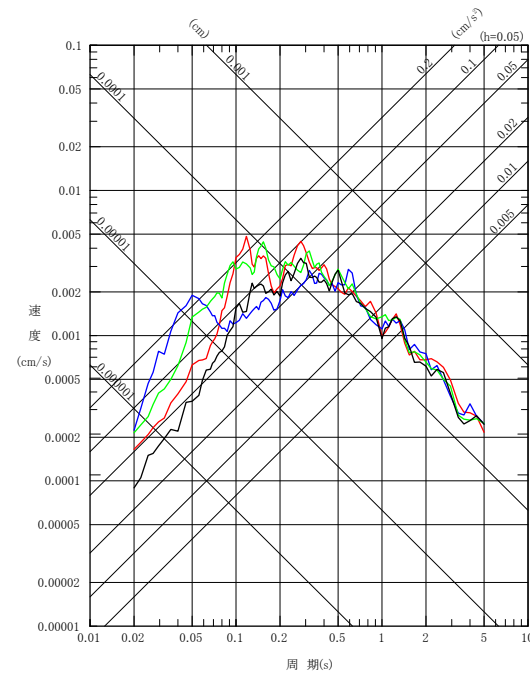
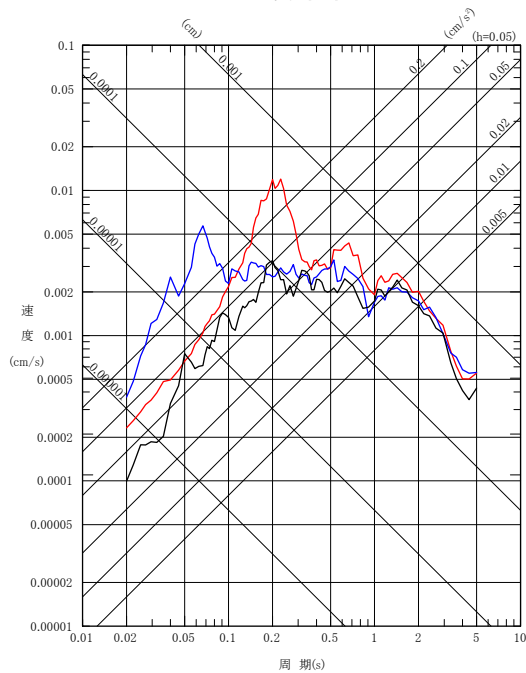
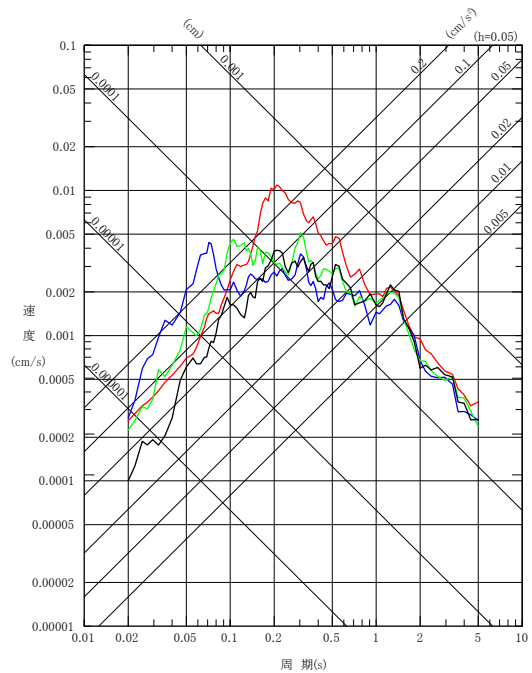
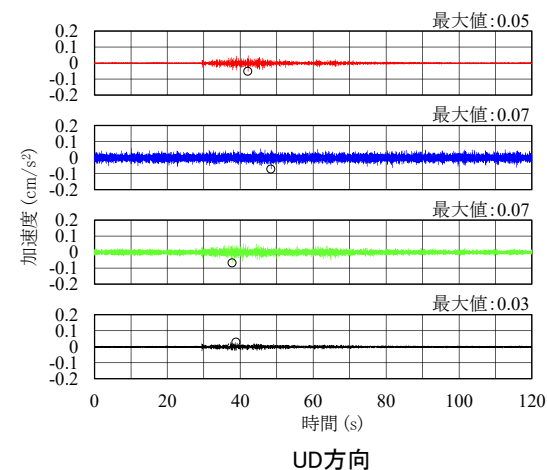
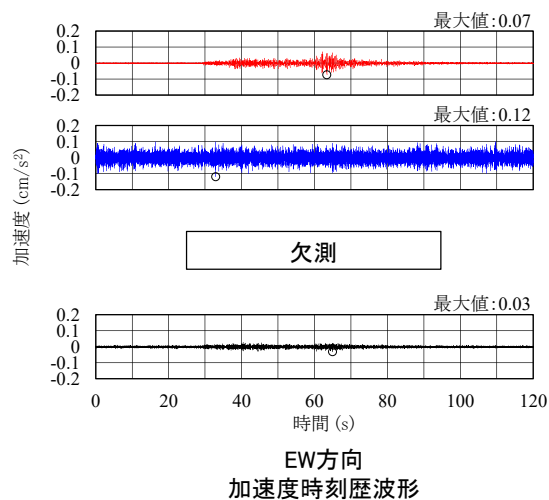
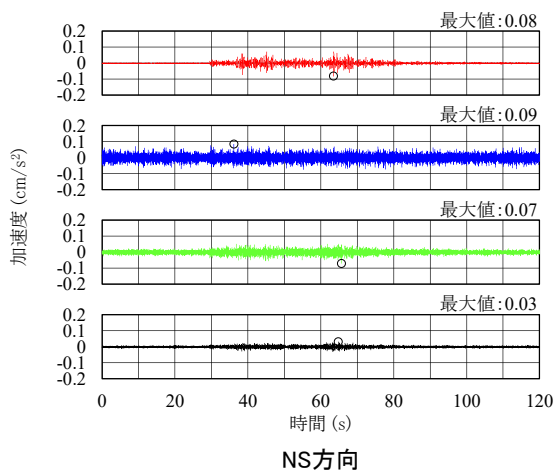
加速度時刻歴波形



擬似速度応答スペクトル

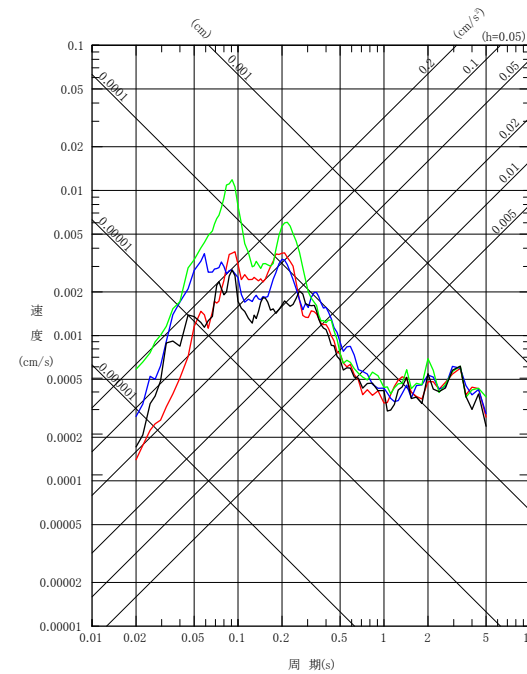
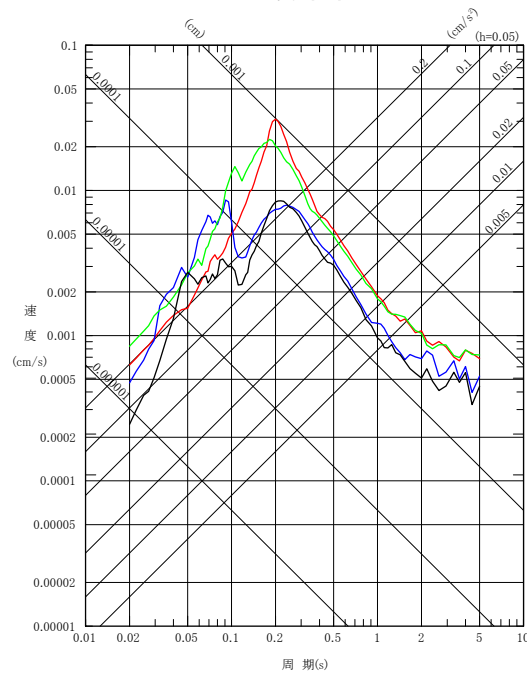
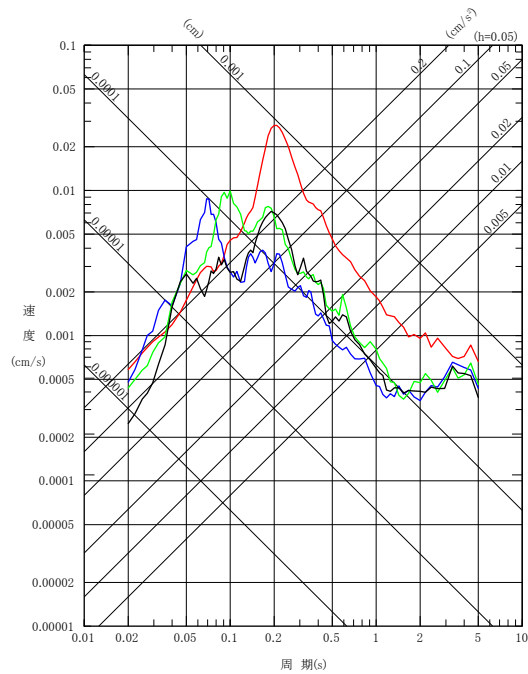
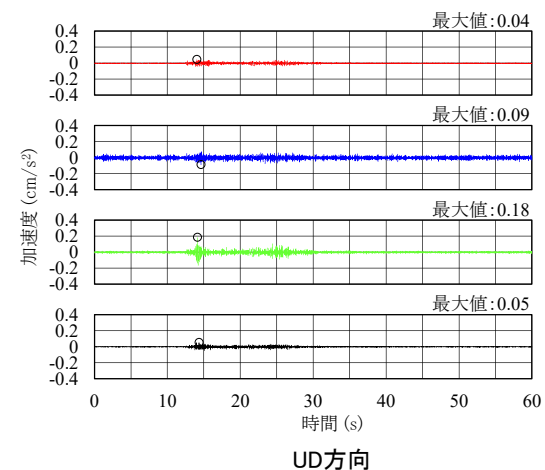
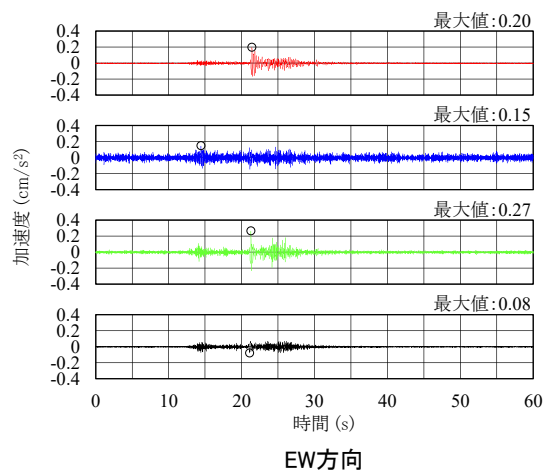
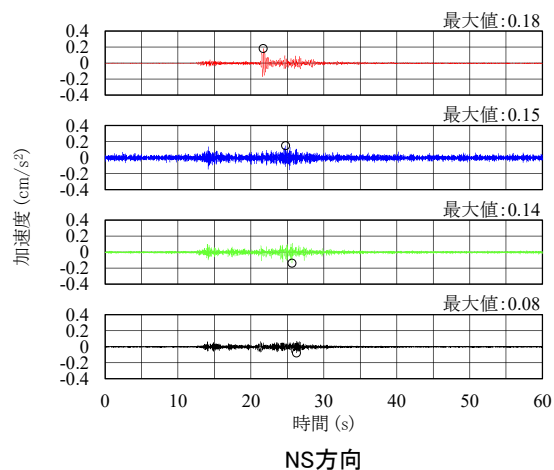
No.29

— 観測点1 — 観測点2 — 観測点3 — 観測点4



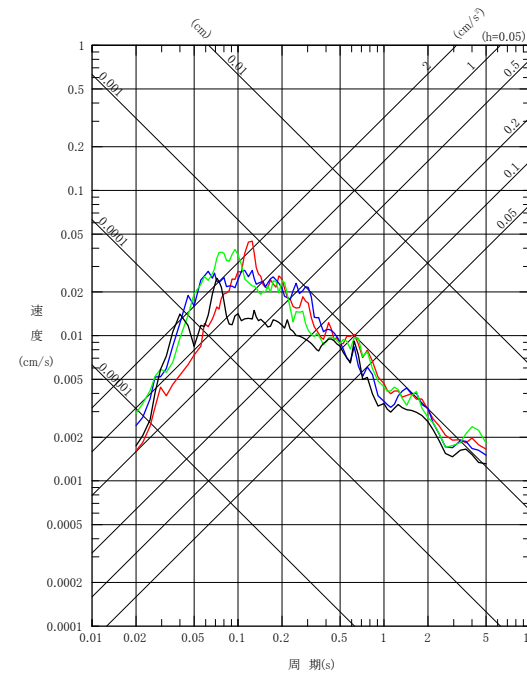
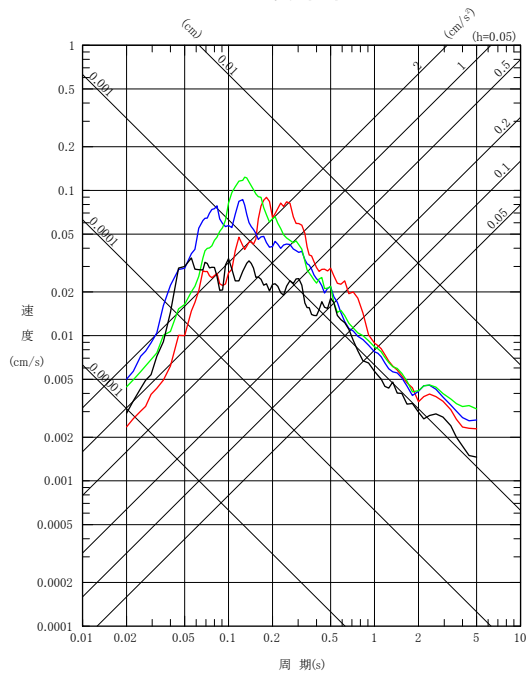
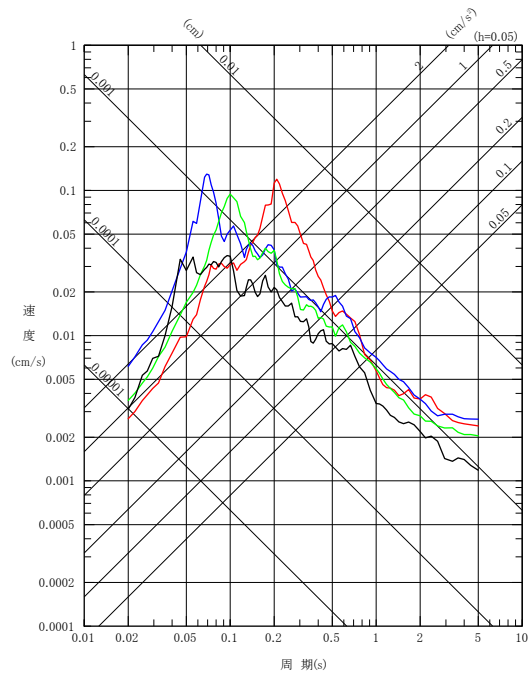
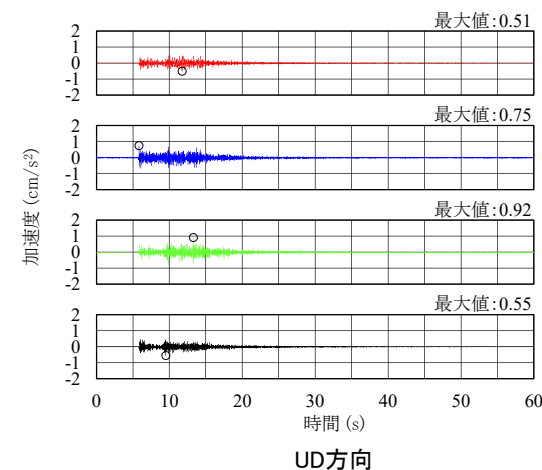
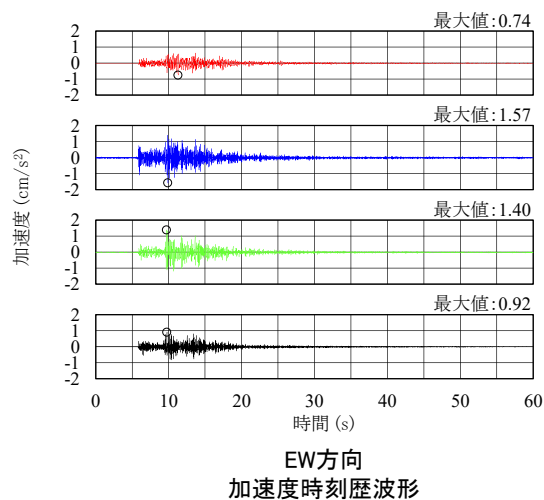
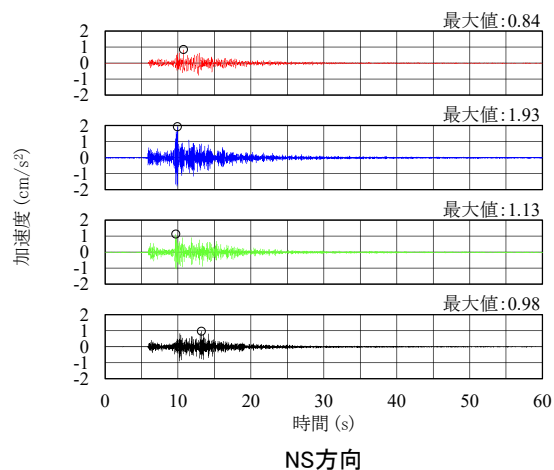
No.30

— 観測点1 — 観測点2 — 観測点3 — 観測点4



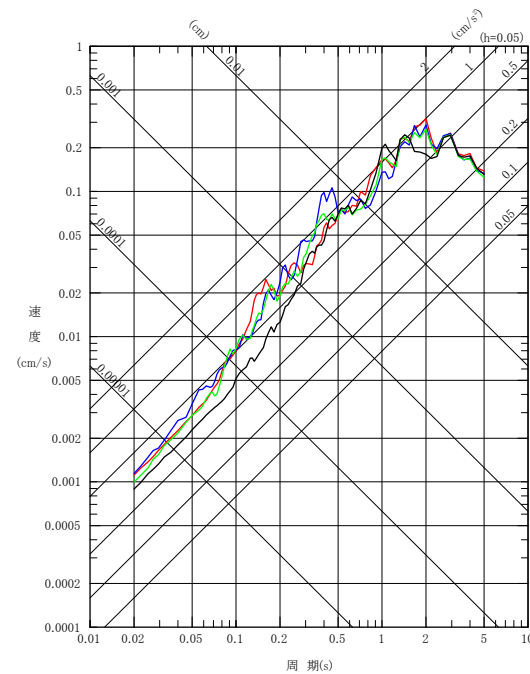
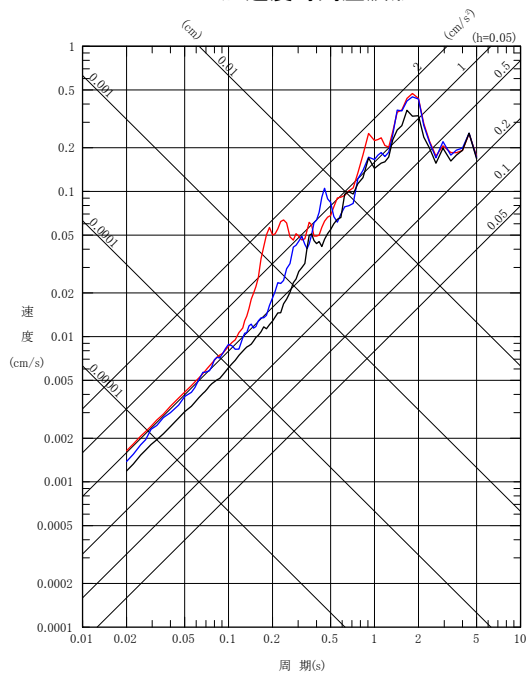
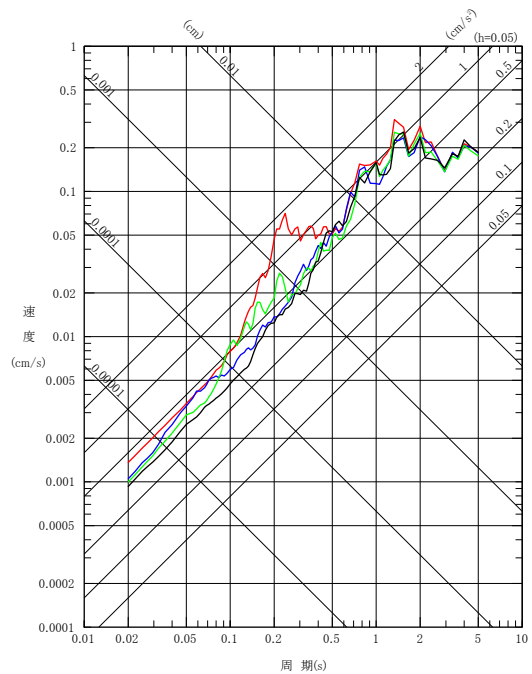
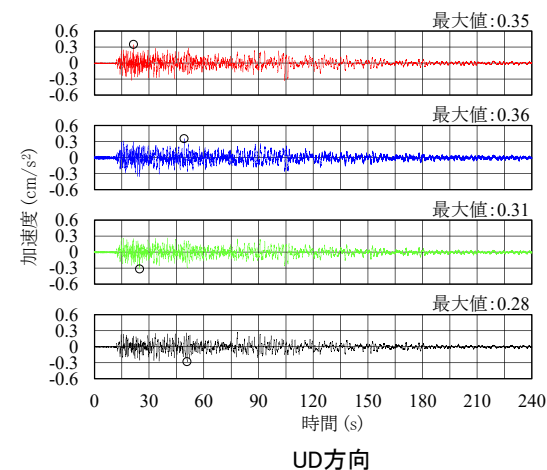
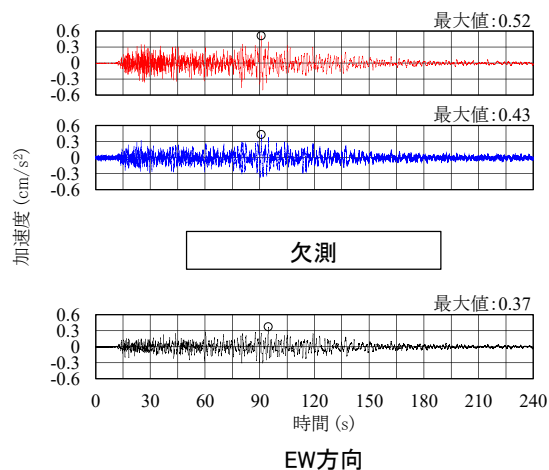
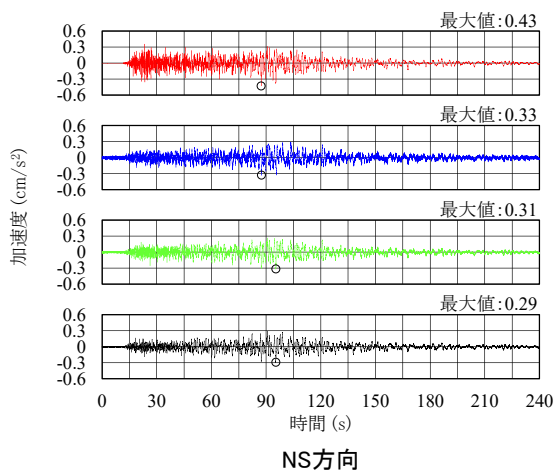
No.31

— 観測点1 — 観測点2 — 観測点3 — 観測点4



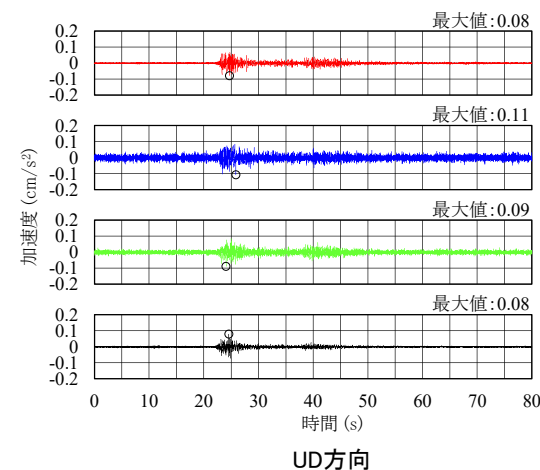
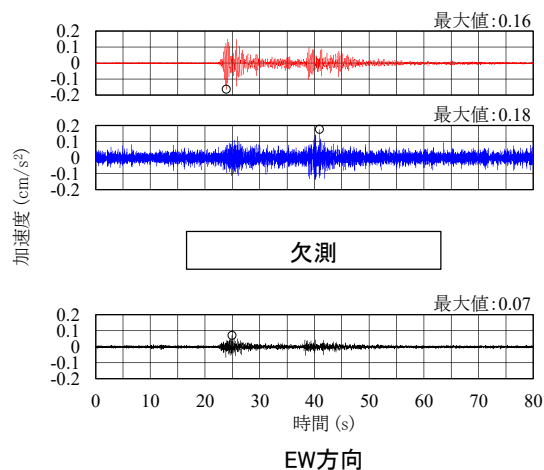
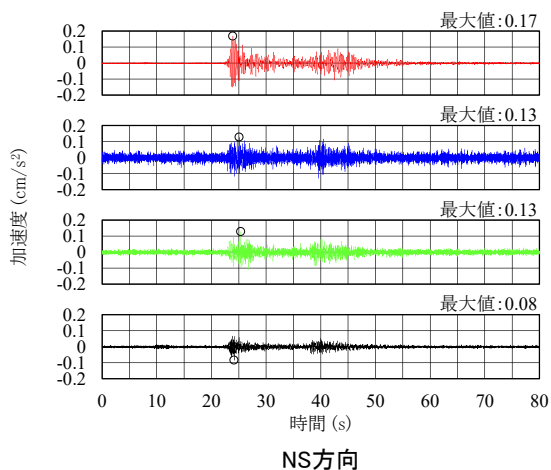
No.32

— 観測点1 — 観測点2 — 観測点3 — 観測点4

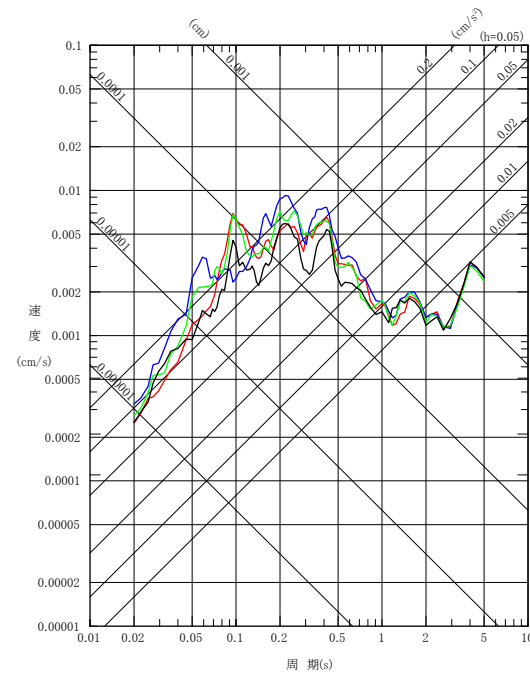
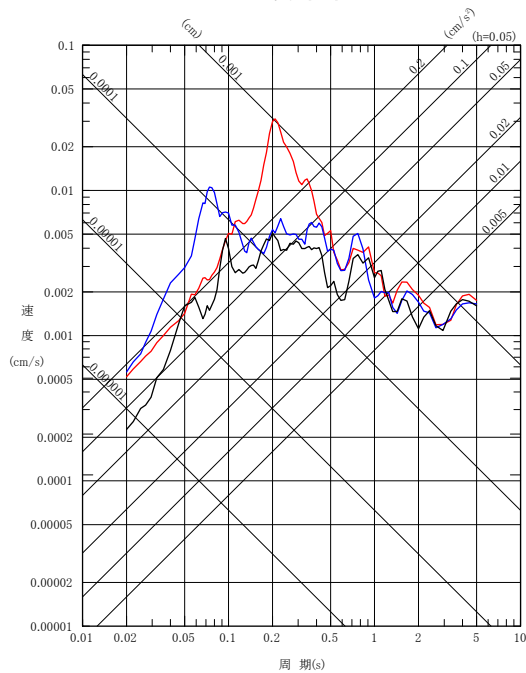
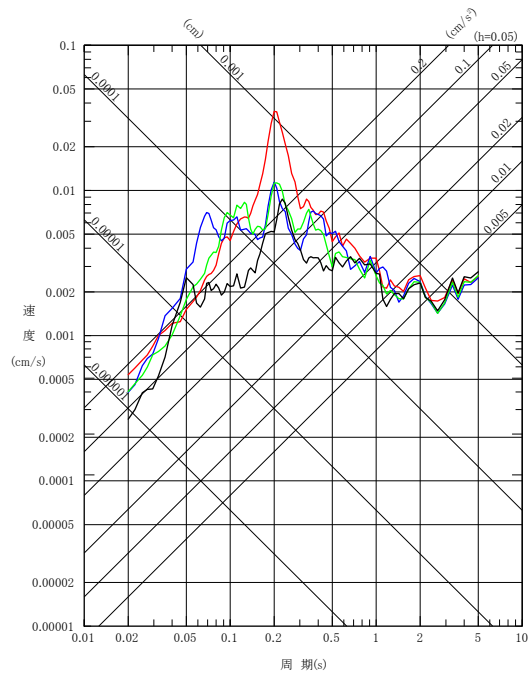


No.33

— 観測点1 — 観測点2 — 観測点3 — 観測点4



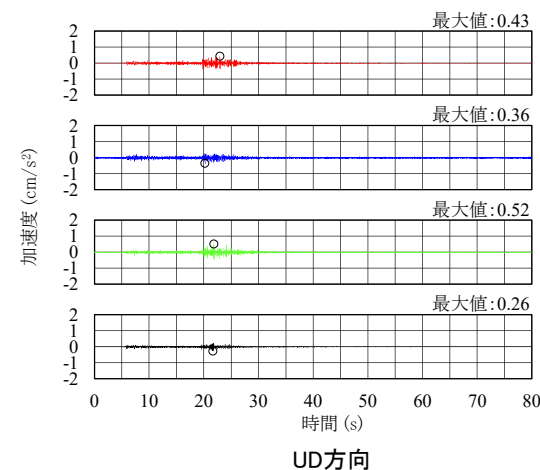
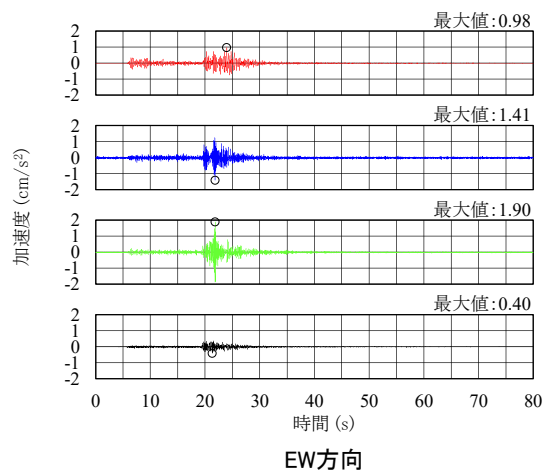
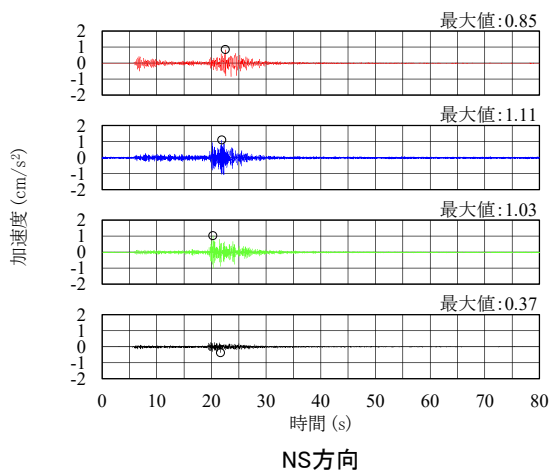
加速度時刻歴波形



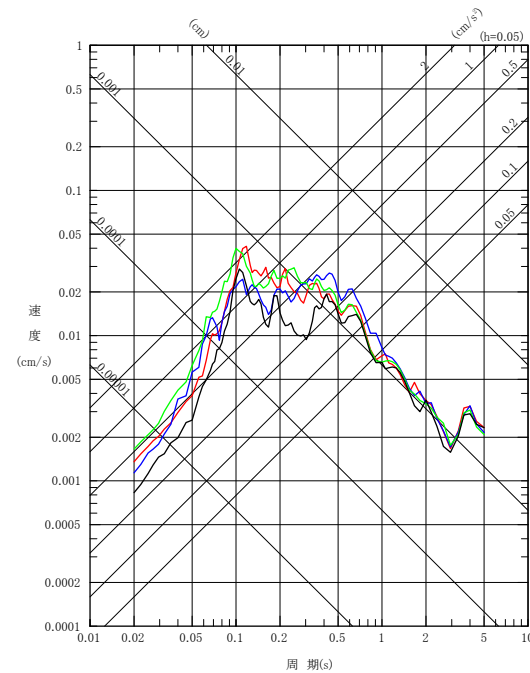
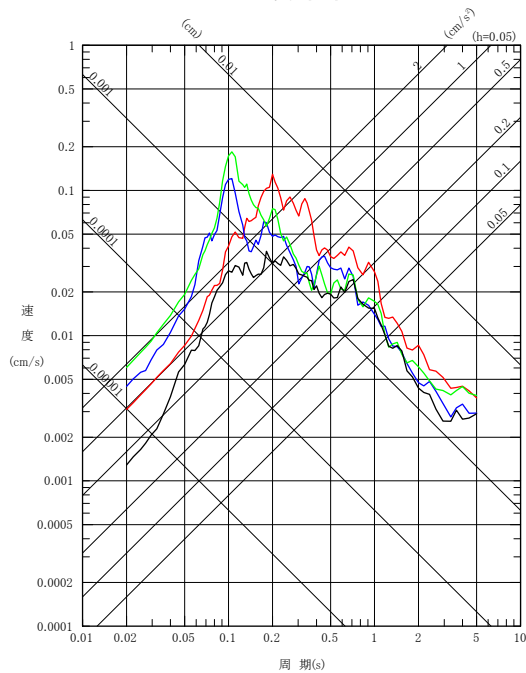
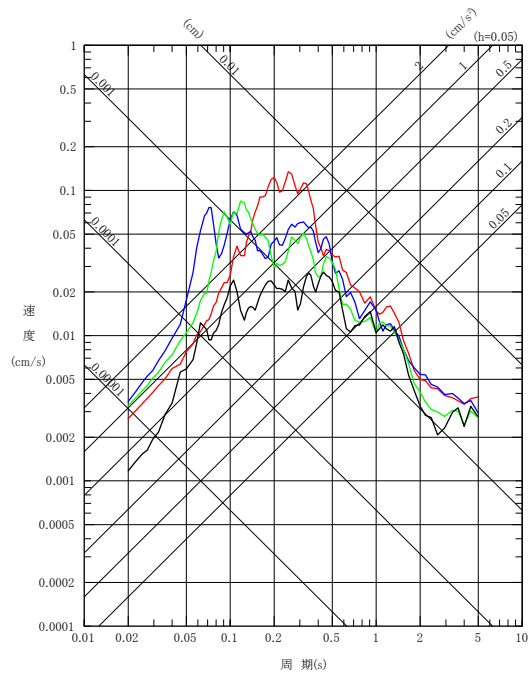
擬似速度応答スペクトル

No.34

— 観測点1 — 観測点2 — 観測点3 — 観測点4



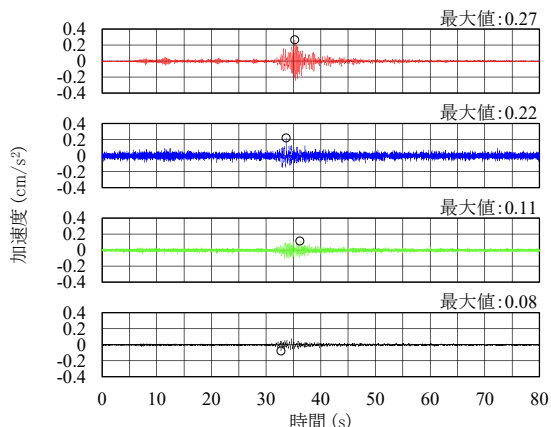
加速度時刻歴波形



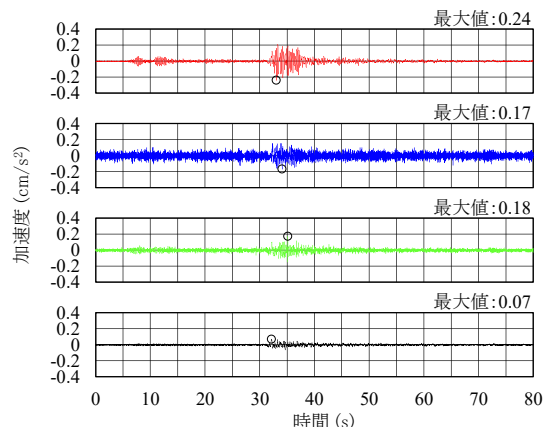
擬似速度応答スペクトル

No.35

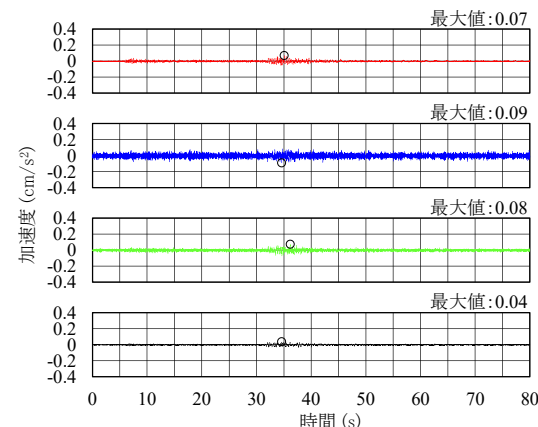
— 観測点1 — 観測点2 — 観測点3 — 観測点4



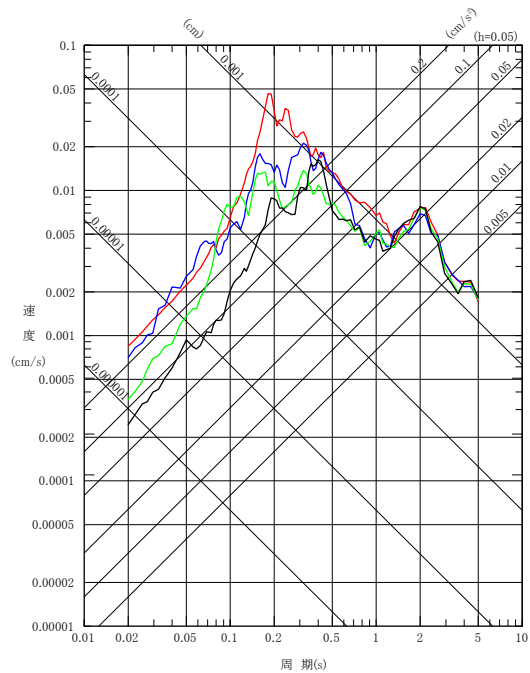
NS方向



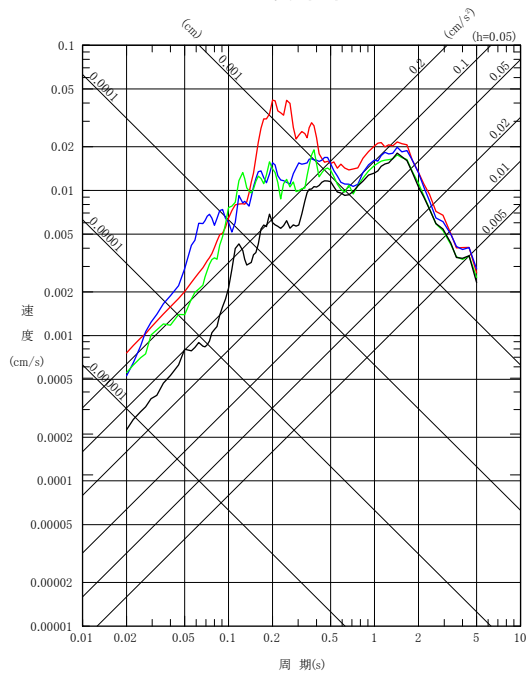
EW方向
加速度時刻歴波形



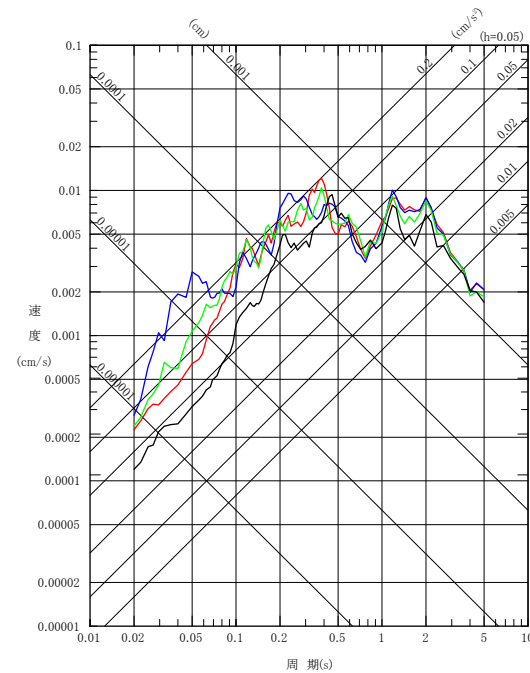
UD方向



NS方向



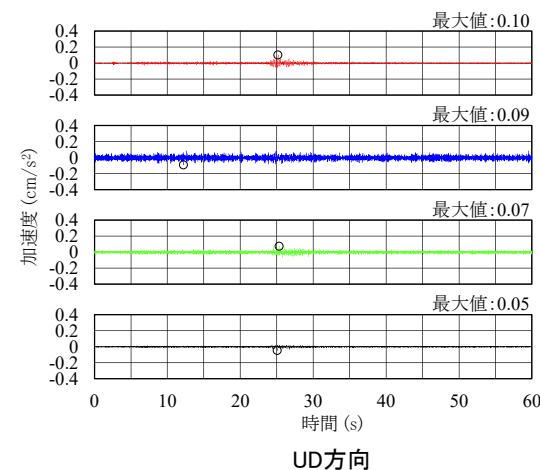
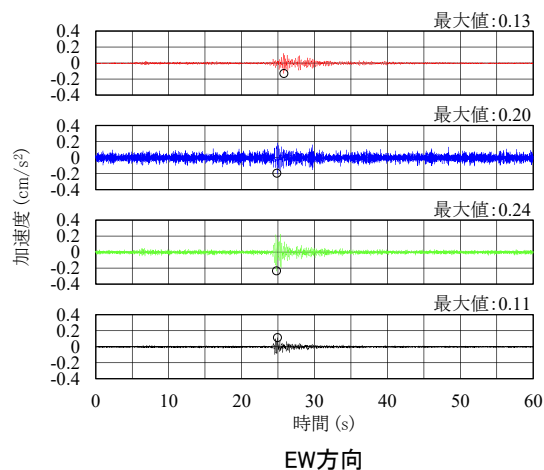
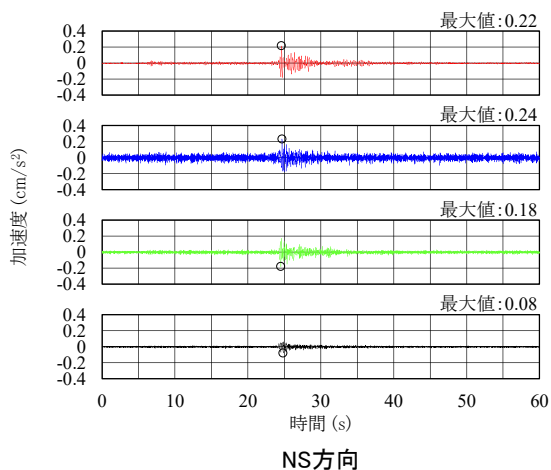
EW方向
擬似速度応答スペクトル



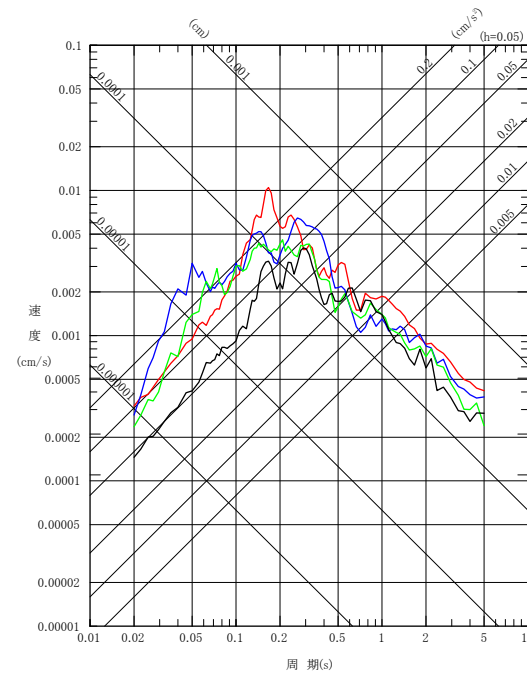
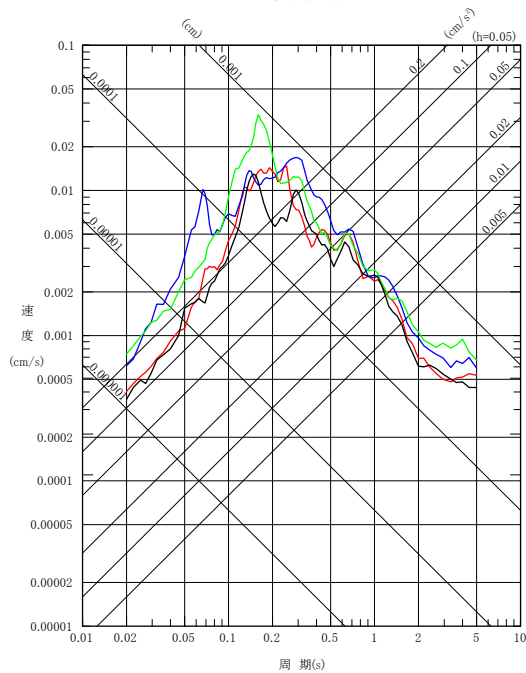
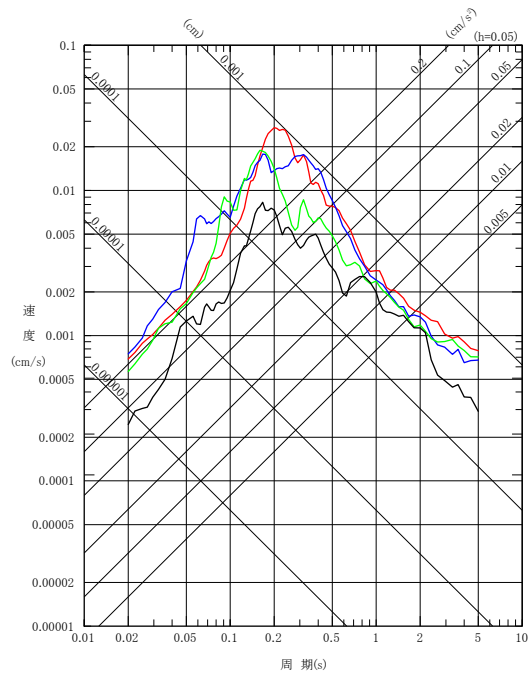
UD方向

No.36

観測点1 観測点2 観測点3 観測点4



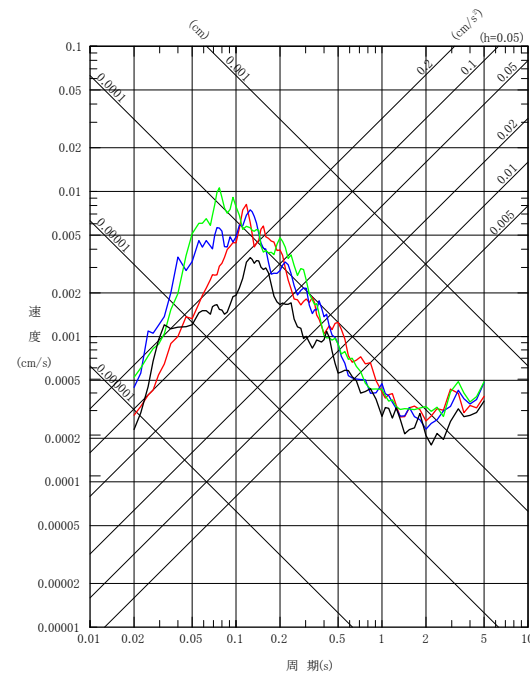
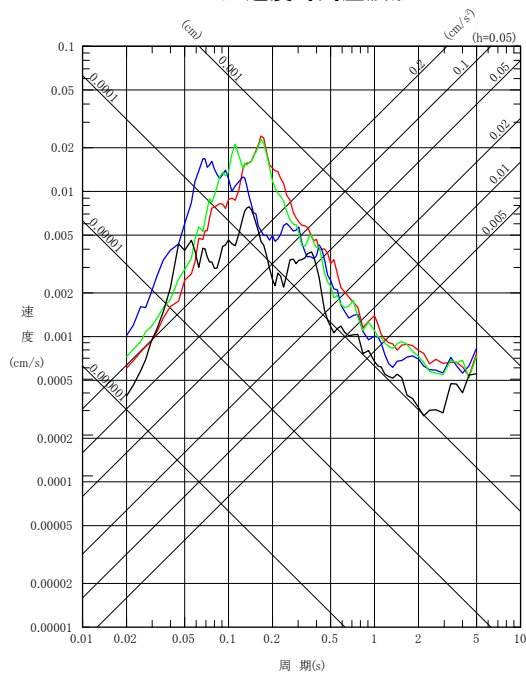
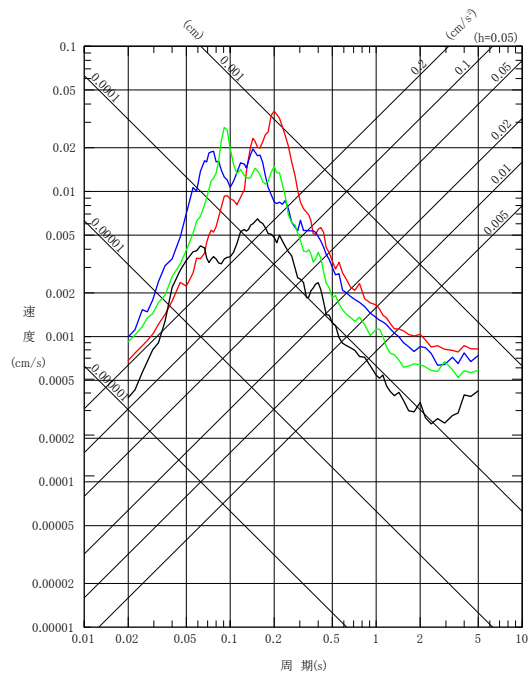
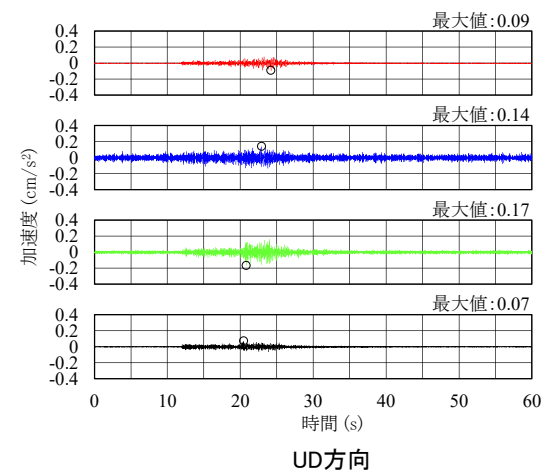
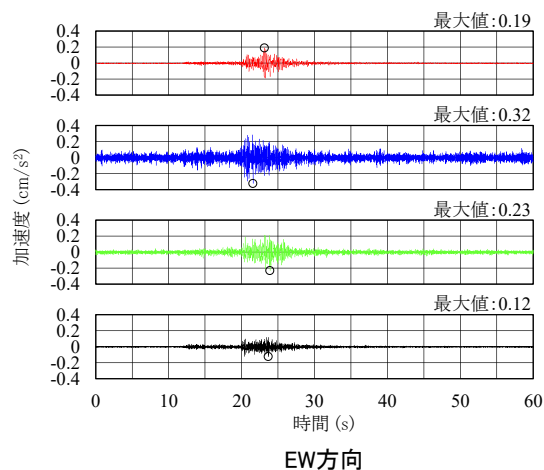
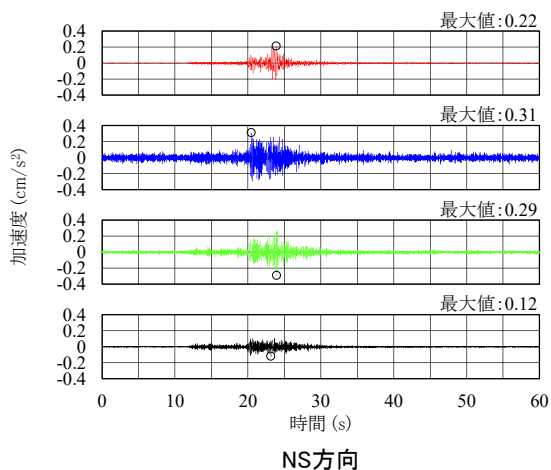
加速度時刻歴波形



擬似速度応答スペクトル

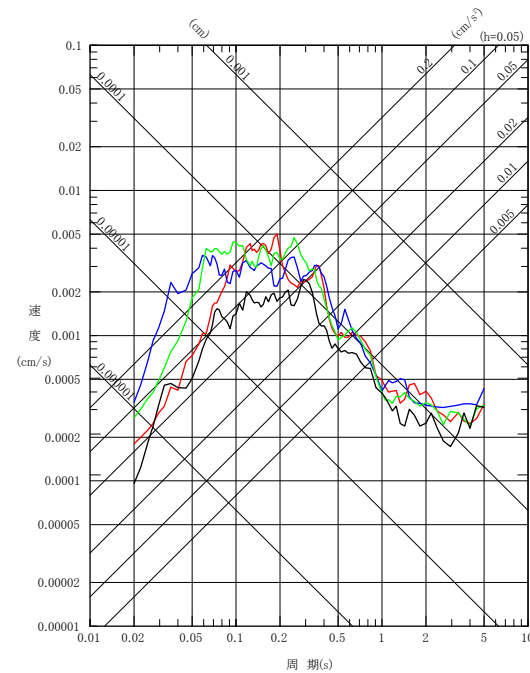
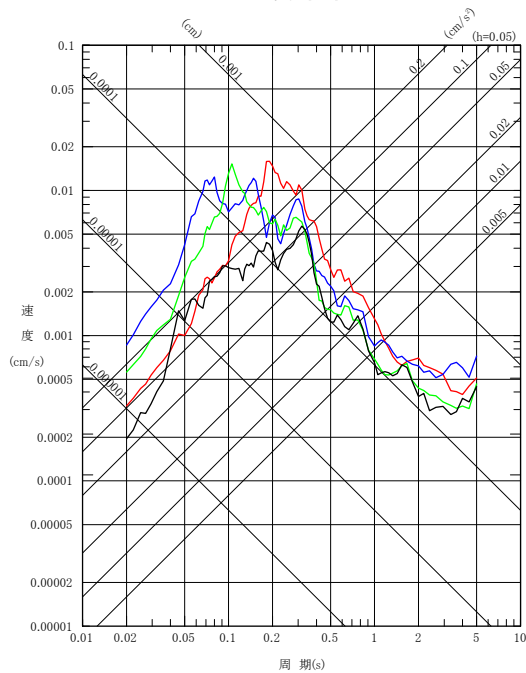
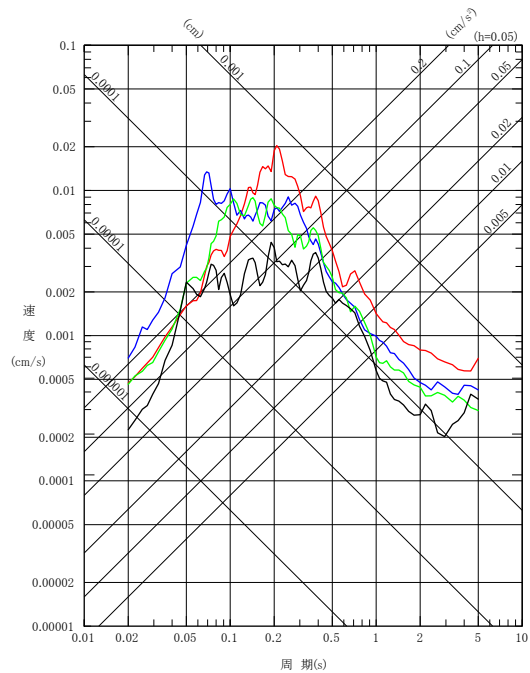
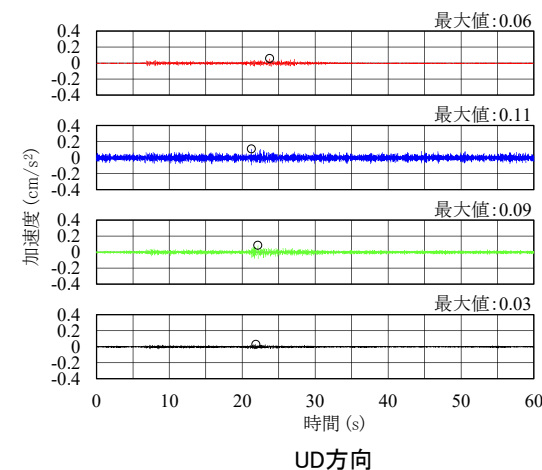
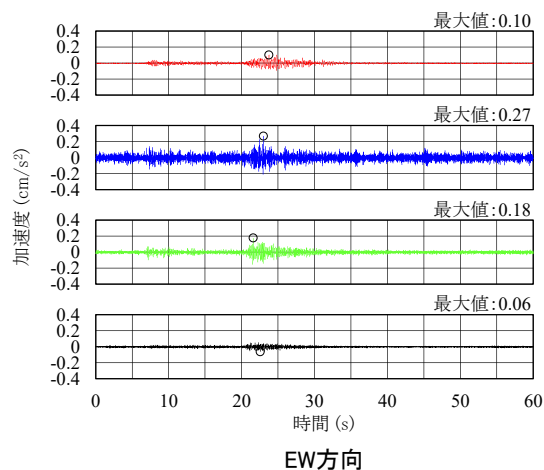
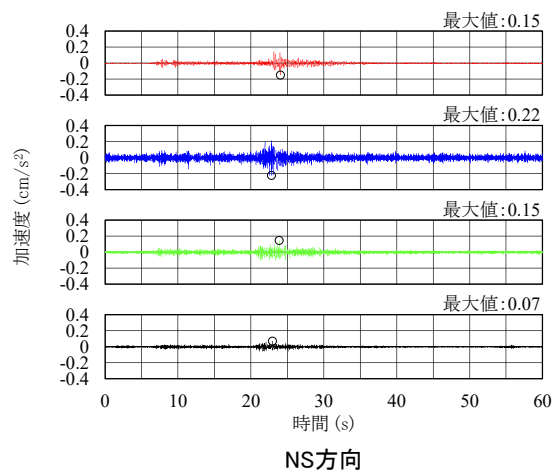
No.37

— 観測点1 — 観測点2 — 観測点3 — 観測点4



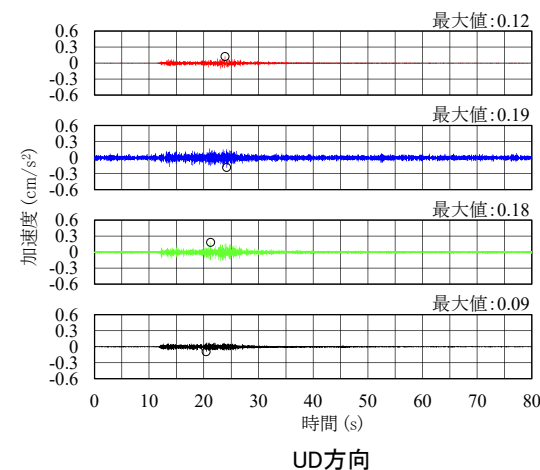
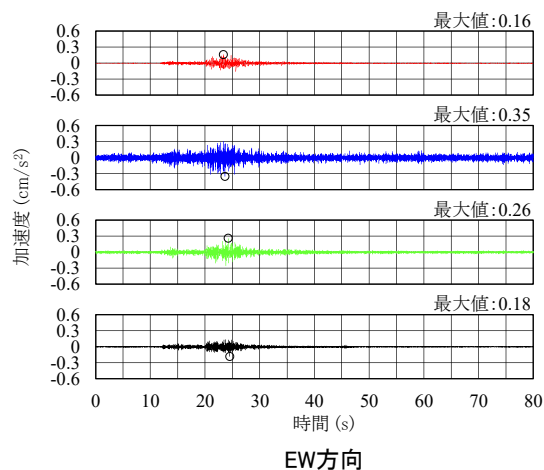
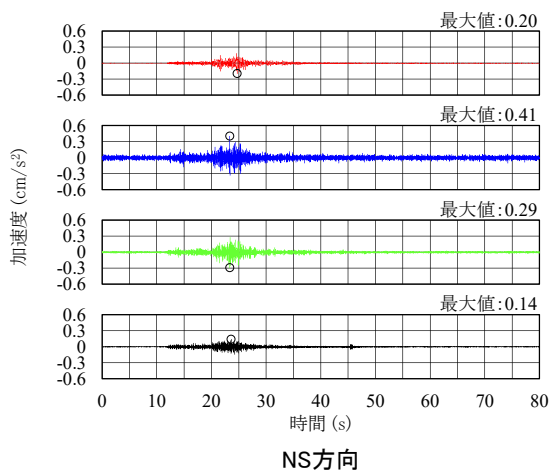
No.38

— 観測点1 — 観測点2 — 観測点3 — 観測点4

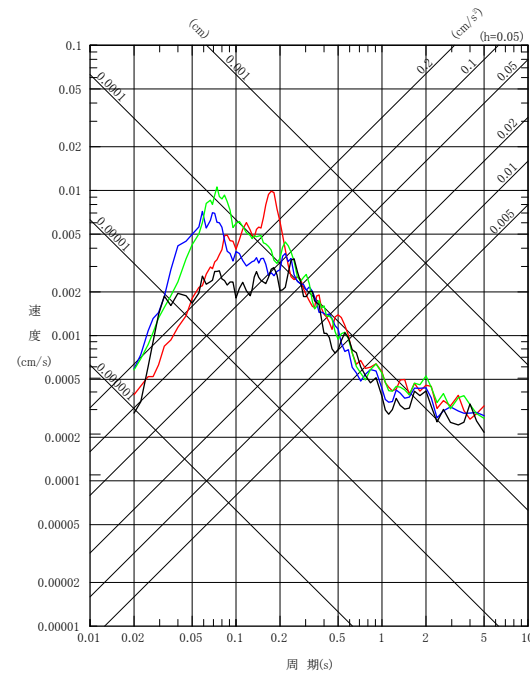
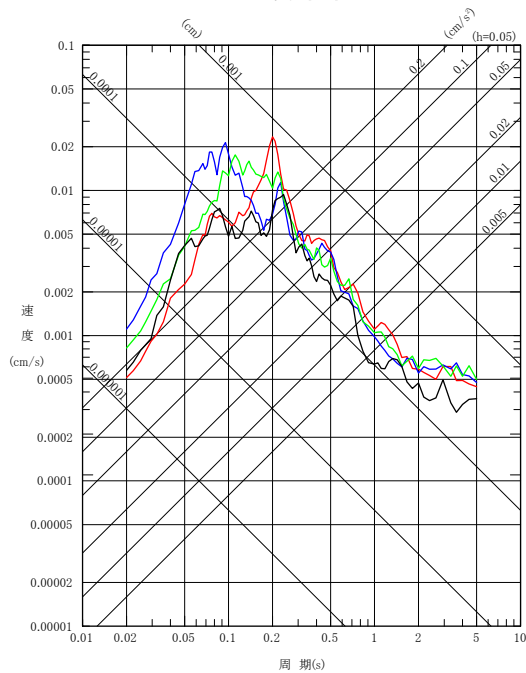
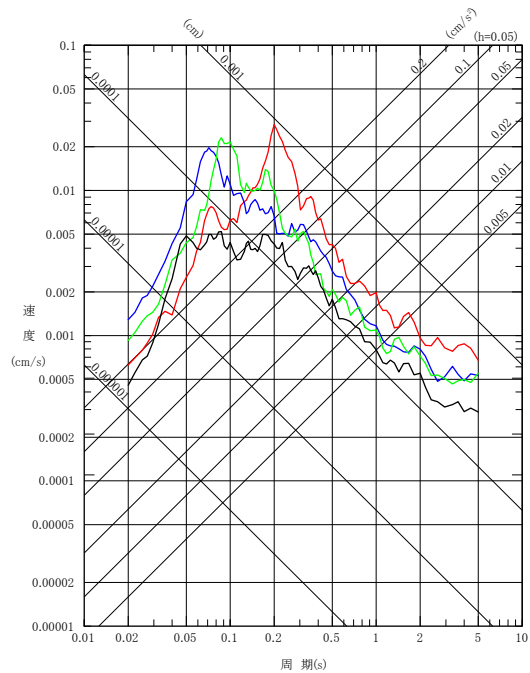


No.39

— 観測点1 — 観測点2 — 観測点3 — 観測点4



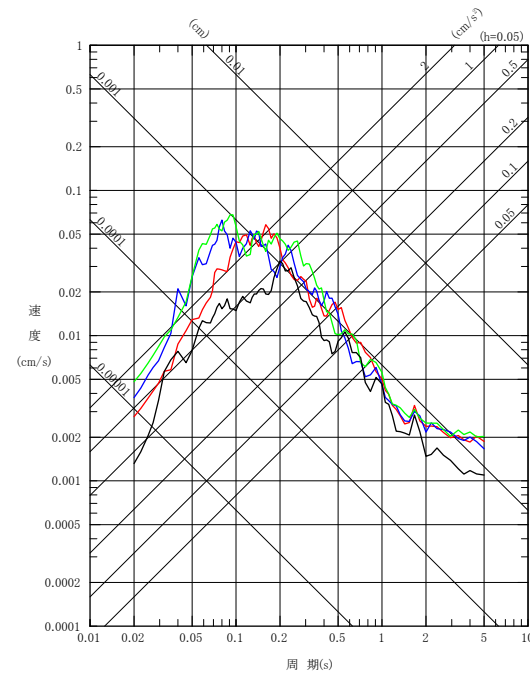
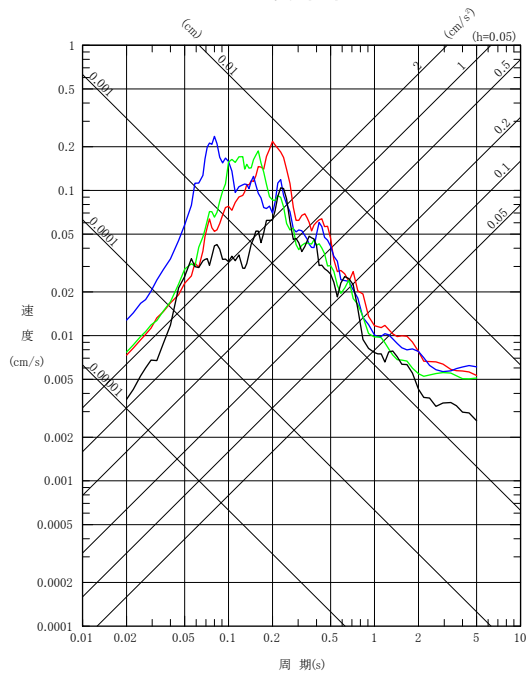
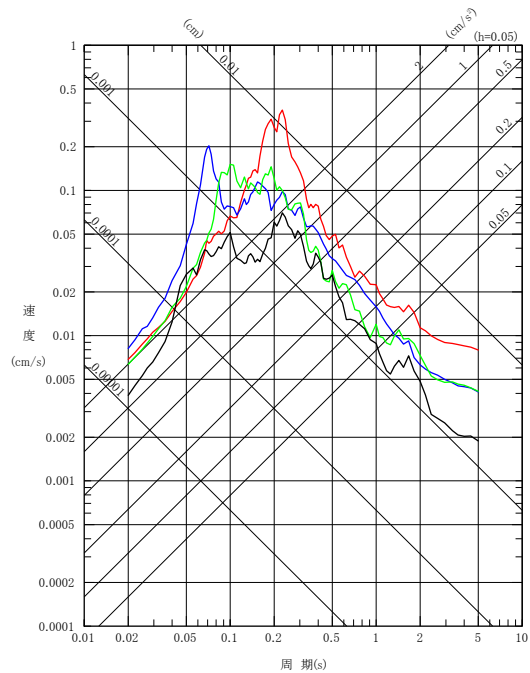
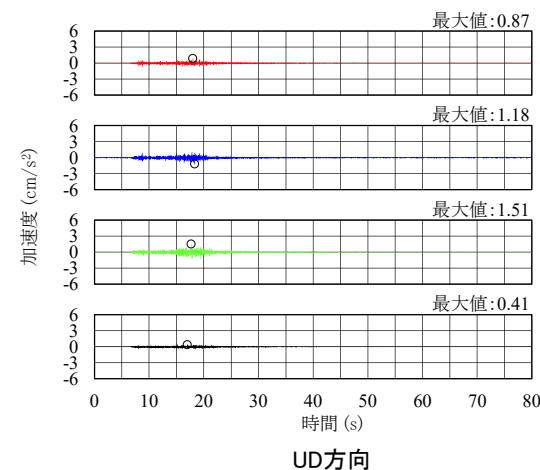
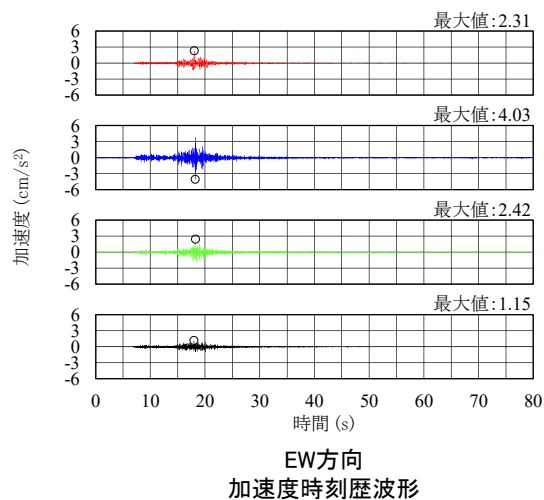
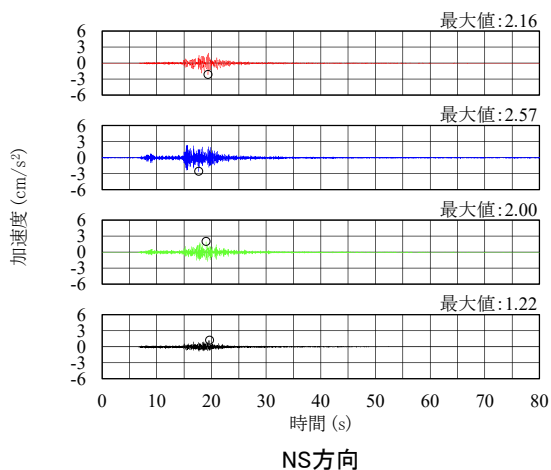
加速度時刻歴波形



擬似速度応答スペクトル

No.40

— 観測点1 — 観測点2 — 観測点3 — 観測点4

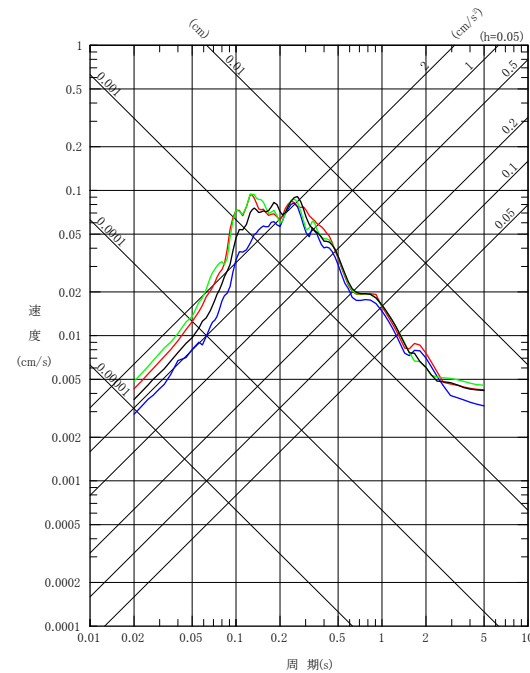
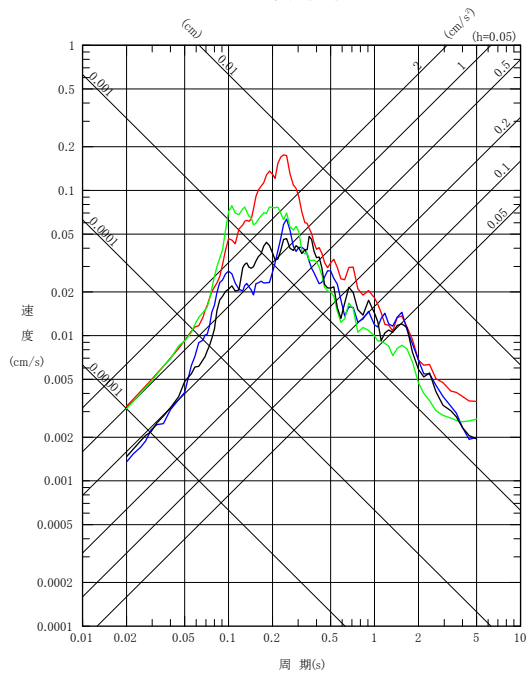
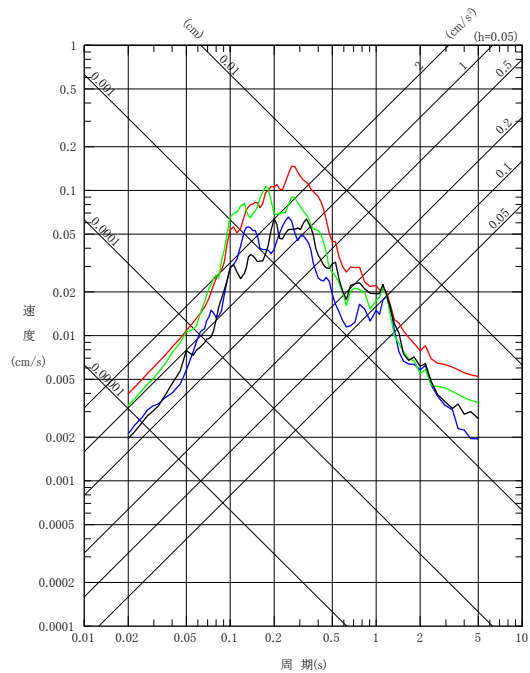
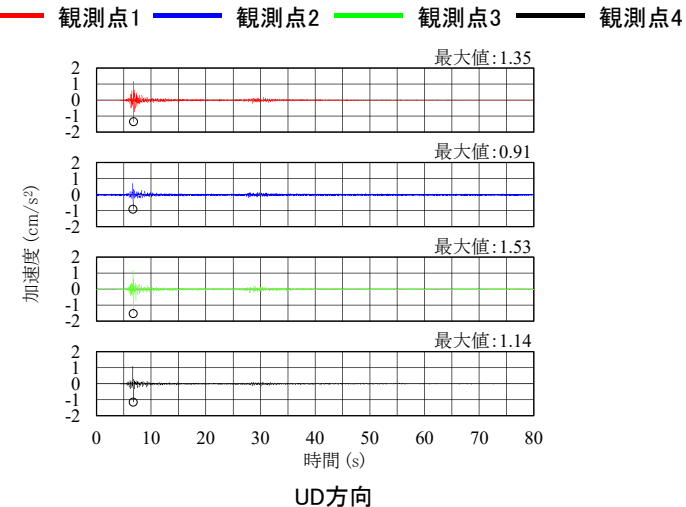
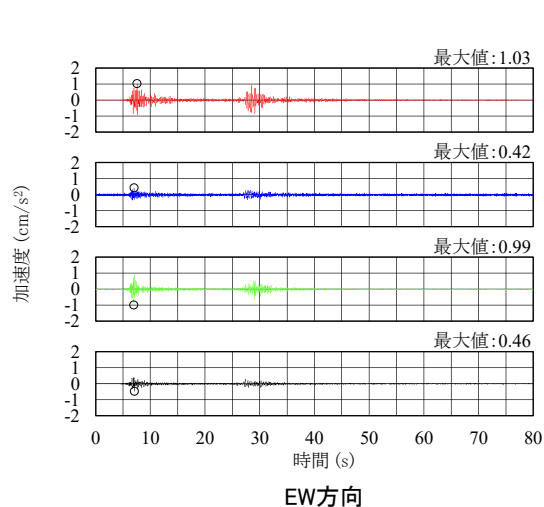
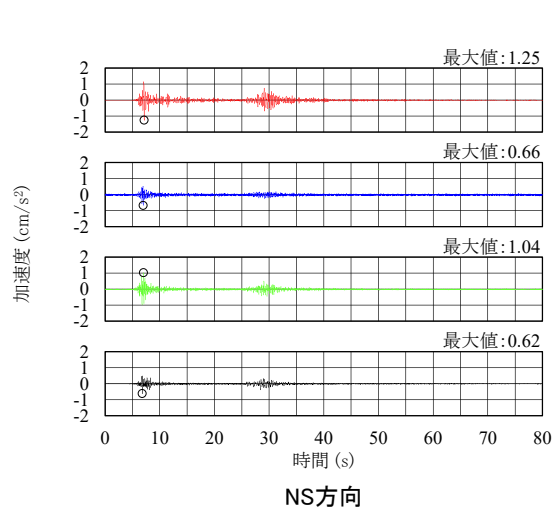


NS方向

EW方向
 擬似速度応答スペクトル

UD方向

No.41

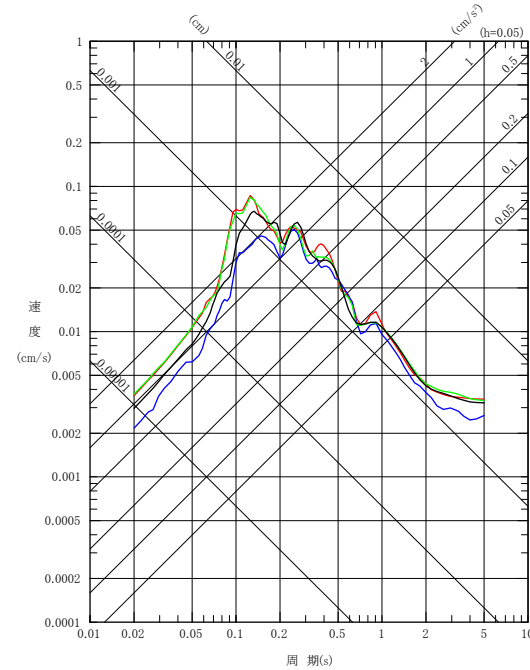
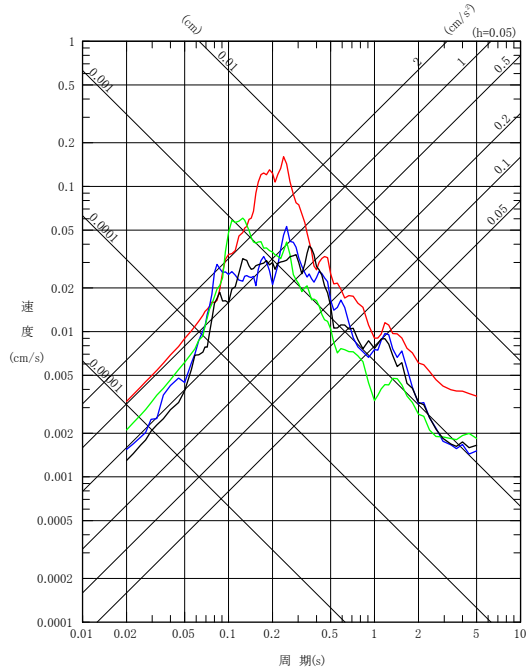
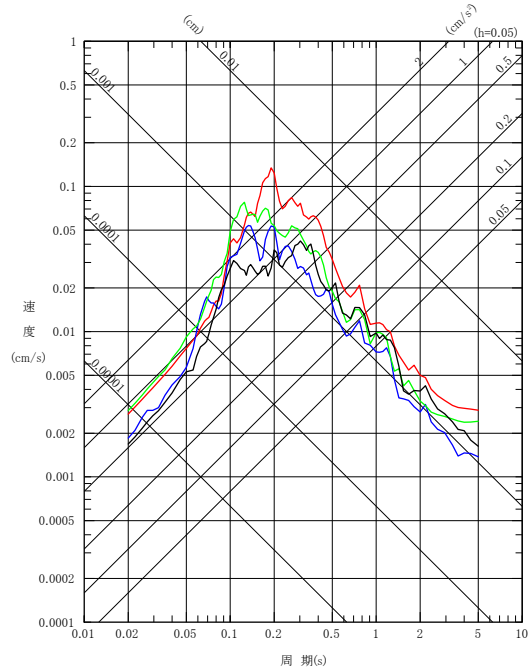
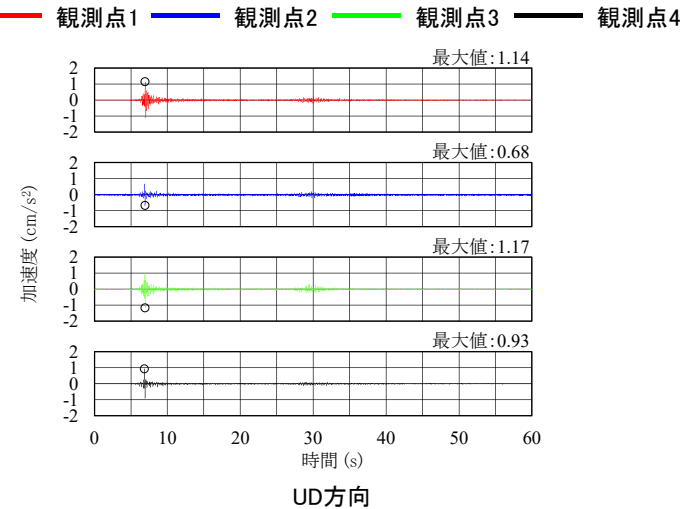
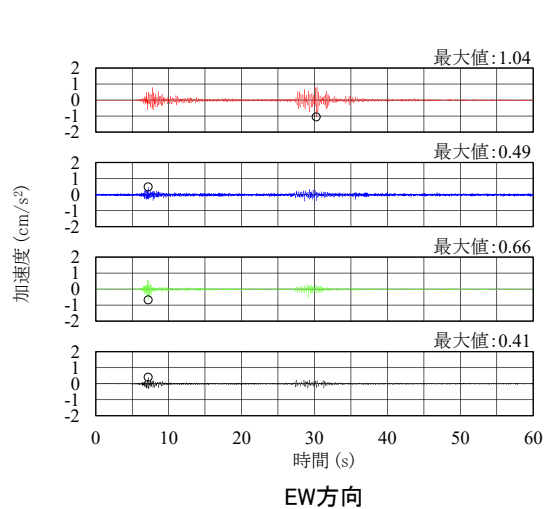
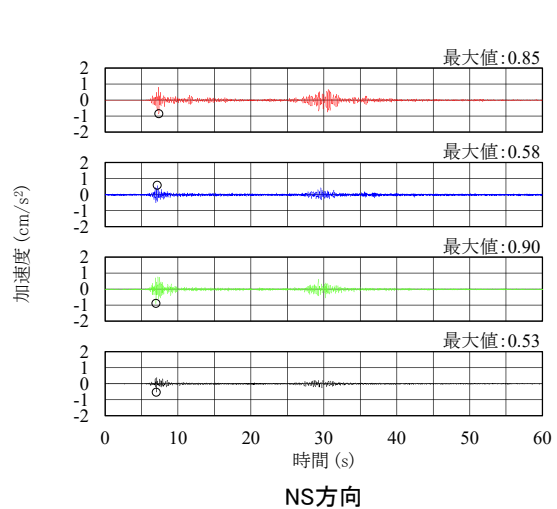


NS方向

EW方向
擬似速度応答スペクトル

UD方向

No.42



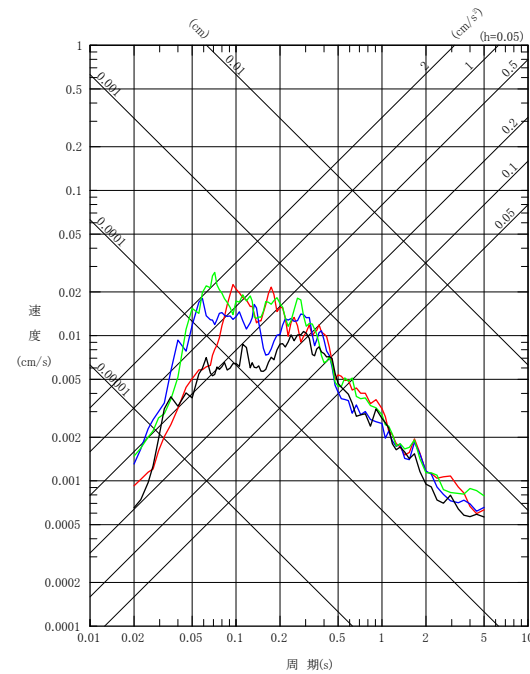
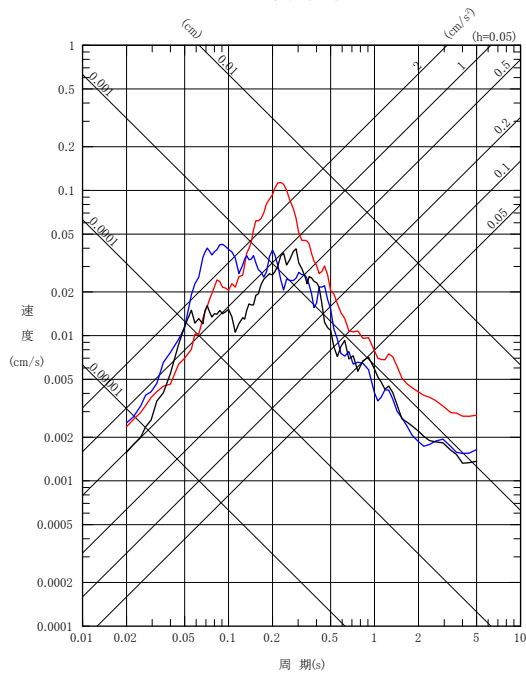
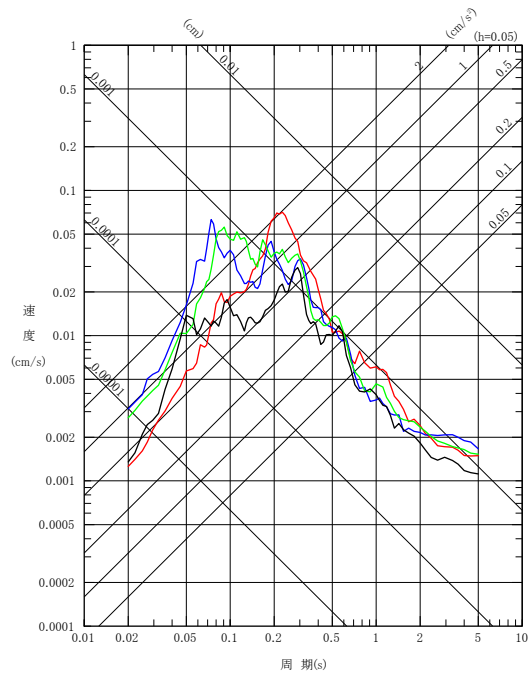
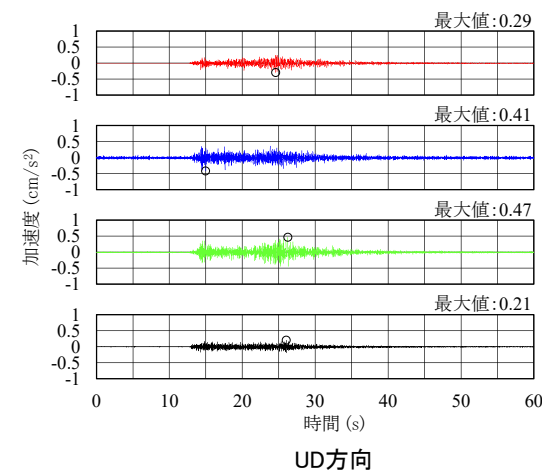
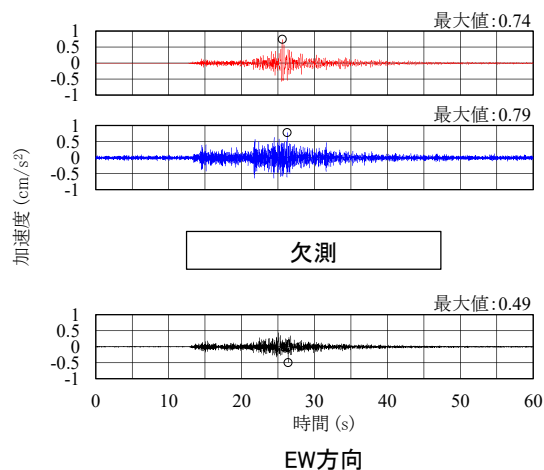
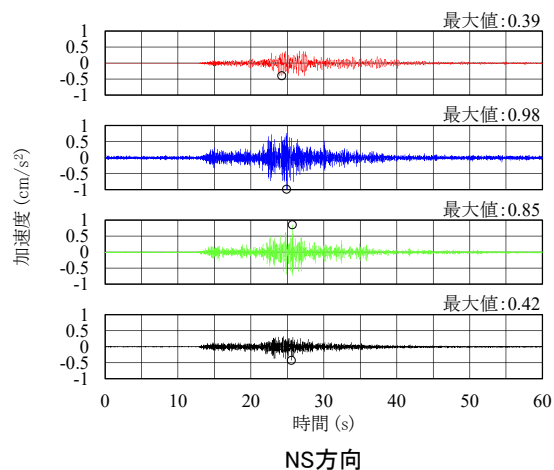
NS方向

EW方向
擬似速度応答スペクトル

UD方向

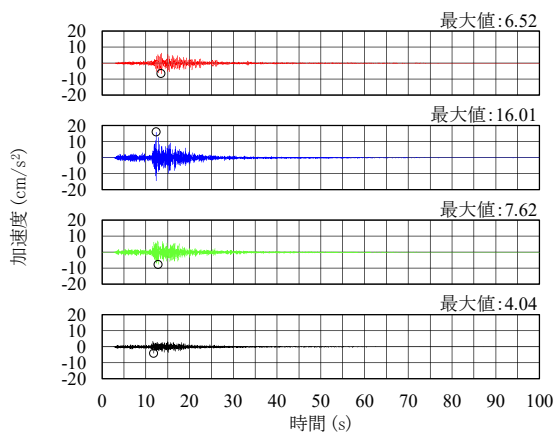
No.43

— 観測点1 — 観測点2 — 観測点3 — 観測点4

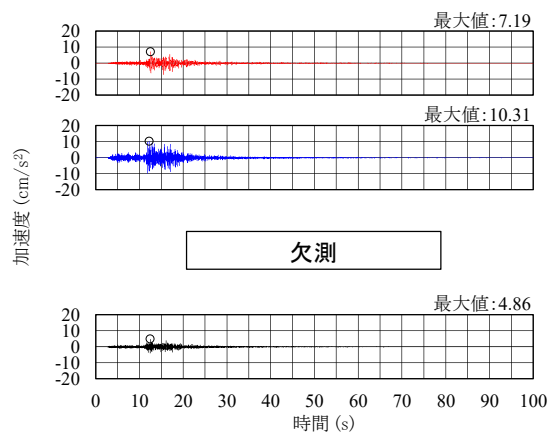


No.44

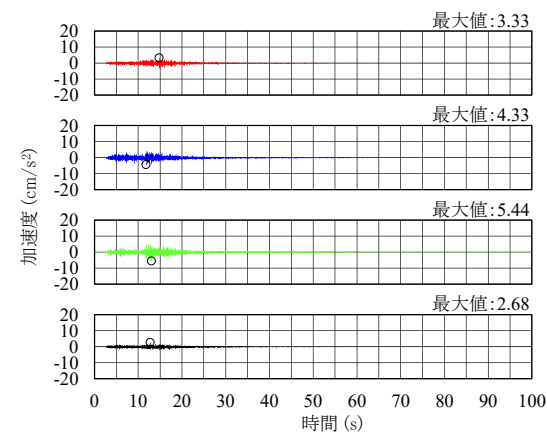
— 観測点1 — 観測点2 — 観測点3 — 観測点4



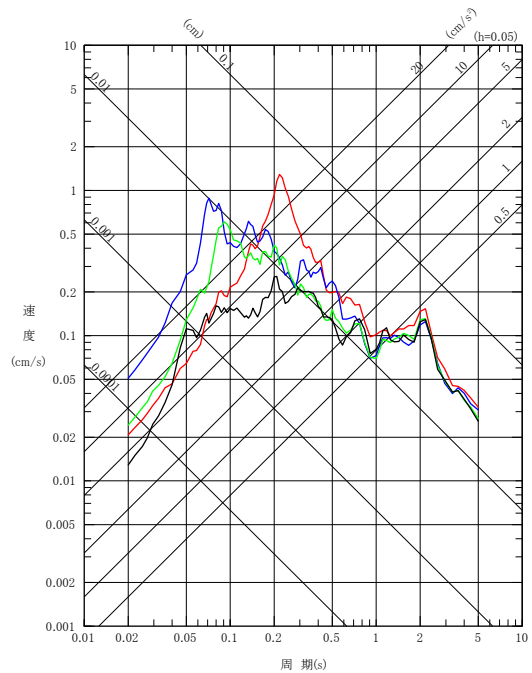
NS方向



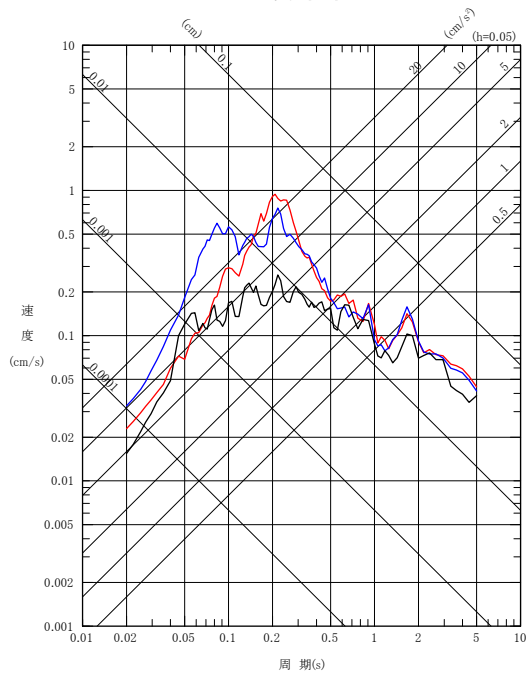
EW方向
 加速度時刻歴波形



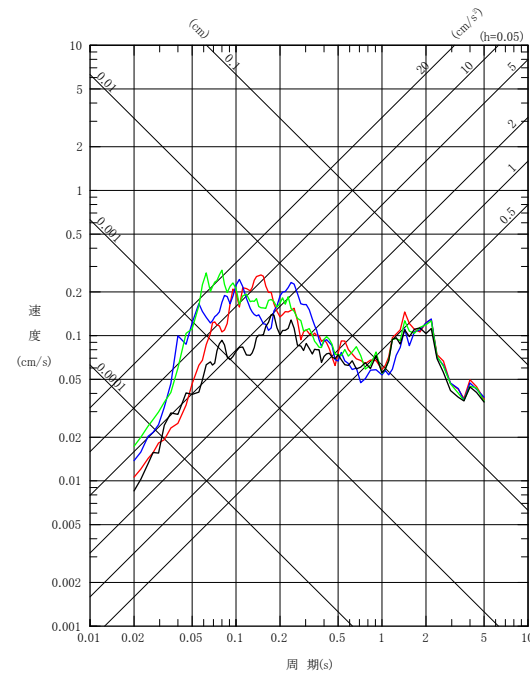
UD方向



NS方向



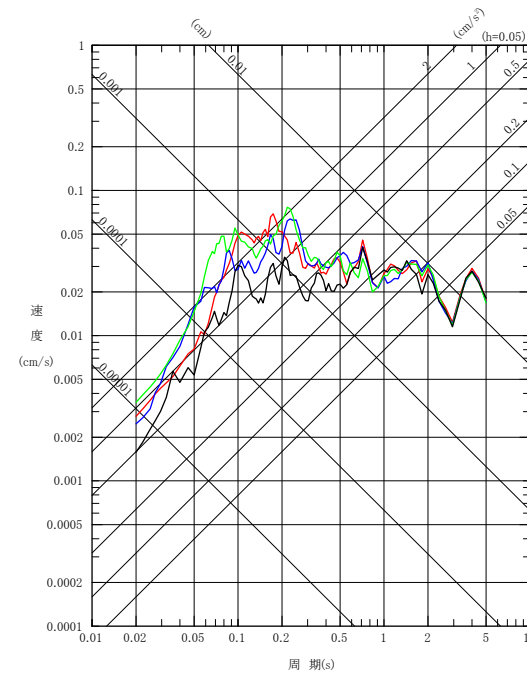
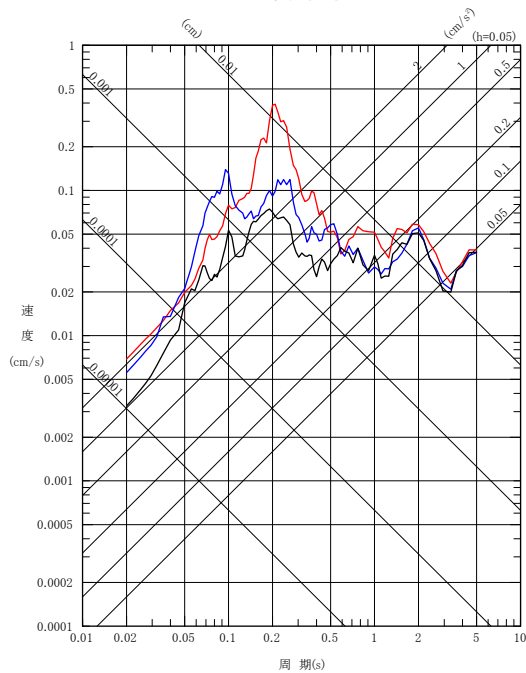
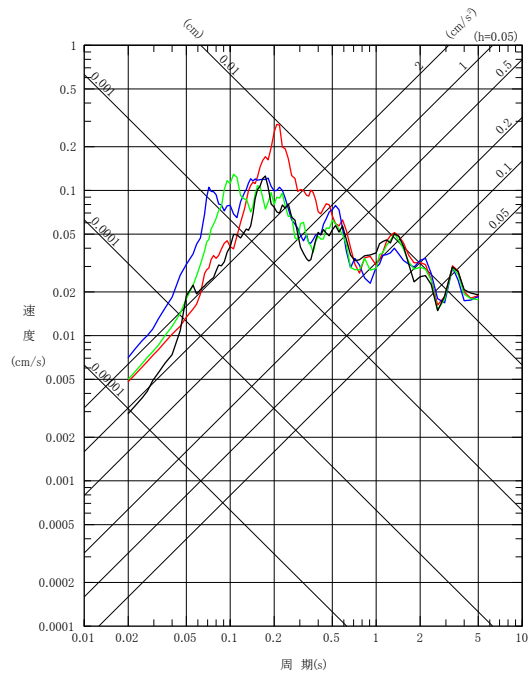
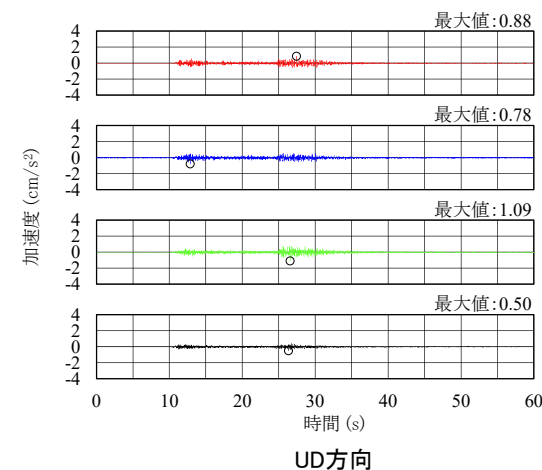
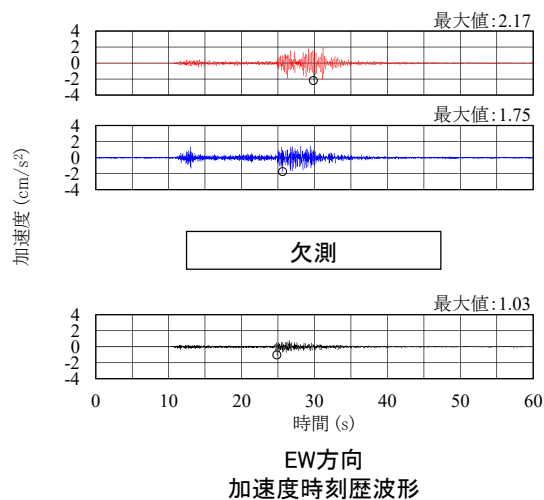
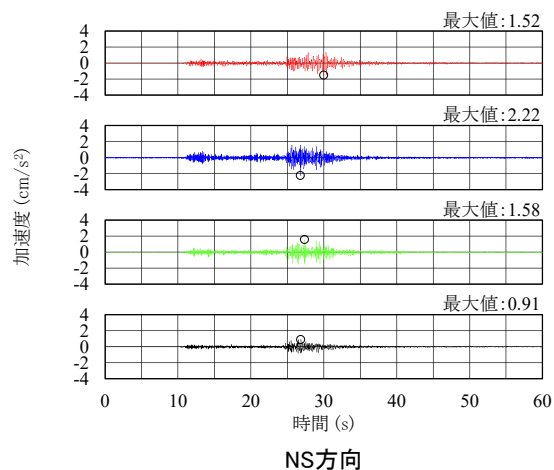
EW方向
 擬似速度応答スペクトル



UD方向

No.45

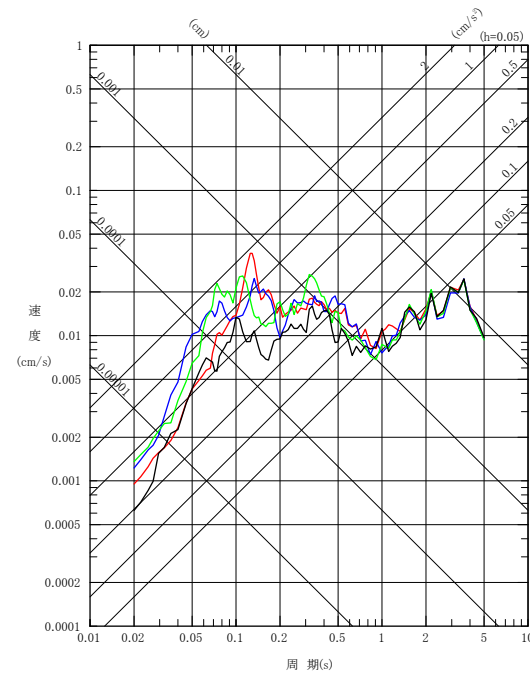
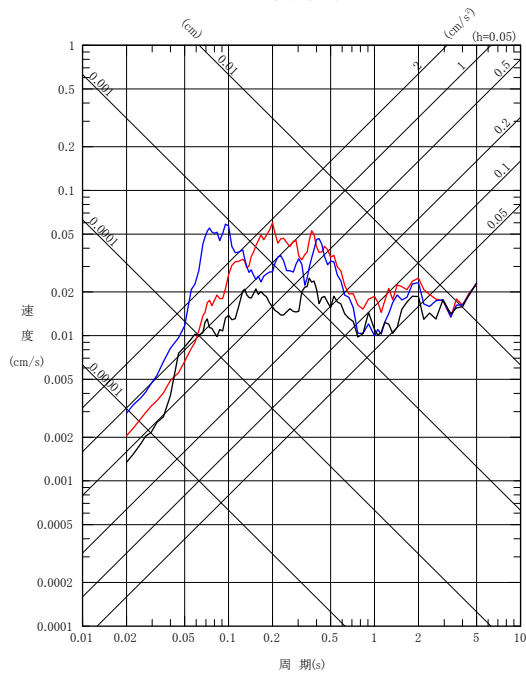
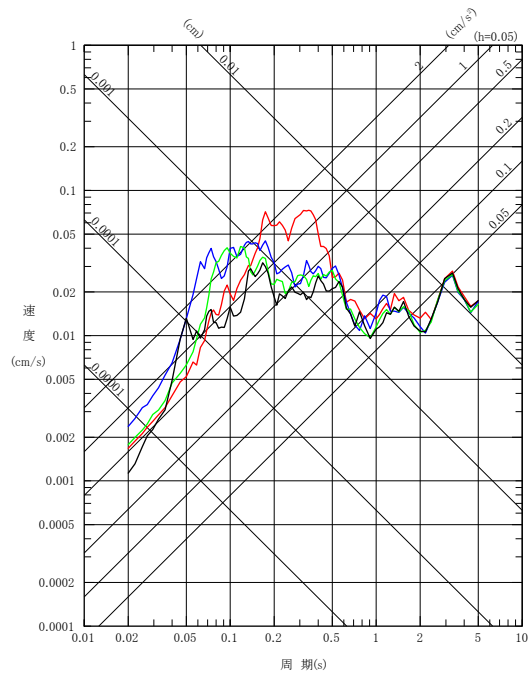
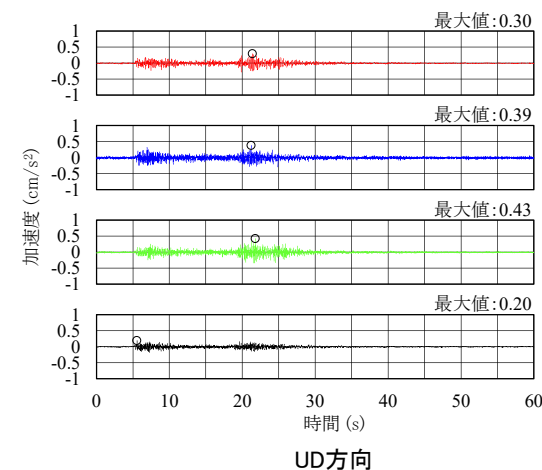
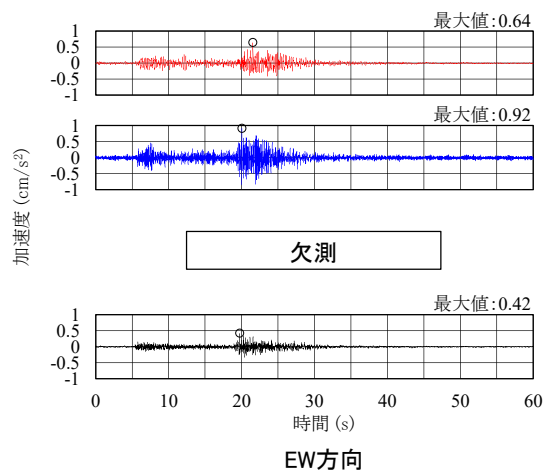
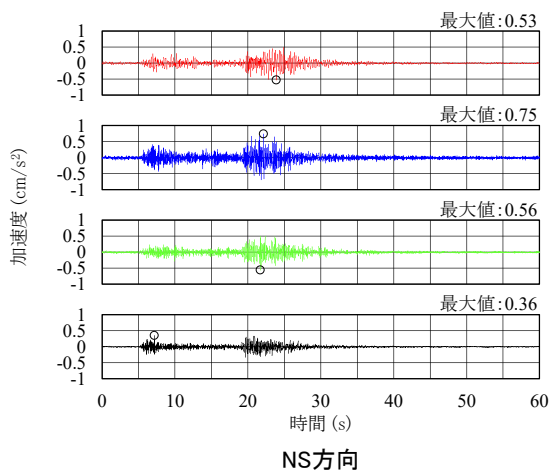
— 観測点1 — 観測点2 — 観測点3 — 観測点4



擬似速度応答スペクトル

No.46

— 観測点1 — 観測点2 — 観測点3 — 観測点4



擬似速度応答スペクトル