

Отговори на технически въпроси, зададени в писмо вх.№ 3892/06.07.2020г.

Въпрос № 1 - Спецификация на изискванията за сеизмоустойчивост (приложение 1 към ТЗ), включително спектри на реагиране

Въпрос № 2 - Схема на отсеци KV61, KV63, KV21, KV22, KV23 and KV24 с указани геометрични размери (височина)

В отговор на зададените въпроси предоставяме следната информация:

1. Приложение 1 към Техническо задание №19.ХОГ.ТЗ.22.
2. Чертеж № 83-09833-5 от проект СКУ на ХОГ от 1988г.
3. Схема на разположение на датчиците с отчитане на котите на контролните точки за измерване, съгласно изискването на Техническо задание №19.ХОГ.ТЗ.22 (Раздел „Общи изисквания към проекта”).



“А Е Ц К О З Л О Д У Й” ЕАД, гр. Козлодуй

Цех ХТС и СК

СПЕЦИФИКАЦИЯ

Сп.ХТС-19/07.05.2020г.

на изисквания за сеизмоустойчивост на оборудване
по Заявка № 19/04.05.2020г.

Относно: Проектиране и изграждане на система за измерване на температура и ниво в отсеци за приемане, презареждане и съхранение на ОЯГ в ХОГ

1. Обхват и класификация

1.1. Обхват

Настоящата спецификация е изготвена за оборудването по техническо задание (ТЗ) №19.ХОГ.ТЗ.22 на тема “Проектиране и изграждане на нова, независима от АСУ на ХОГ, система за измерване на температура и ниво в отсеци за приемане, презареждане и съхранение на ОЯГ в ХОГ”:

- 1.1.1. Датчици за температура;
- 1.1.2. Датчици за ниво;
- 1.1.3. Кабелни трасета;
- 1.1.4. Разпределителни и захранващи ел.табла;

1.2. Класификация по безопасност и сеизмоустойчивост

Оборудването от т.1.1 е класифицирано в т.2 на ТЗ като:

- клас по безопасност **3** по SSG-30 “Safety classification of structures, systems and components in NPPs” IAEA, 2014 г.;
- сеизмична категория **3** по NS-G-1.6 “Seismic design and qualification for NPPs”, IAEA, 2003 г.

2. Основни изисквания за сеизмичната квалификация на оборудването:

2.1. В съответствие с т.2.29 от NS-G-1.6 оборудване сеизмична категория 3 трябва да е сеизмично квалифицирано за сеизмично въздействие с ниво МРЗ. В конкретния случай е необходимо да се докаже, че оборудването от новата система за измерване на температурата и системата като цяло запазват цялост и функционалност по време на и след земетресение с ниво МРЗ.

2.2. Сеизмоустойчивостта на оборудването да бъде доказана в съответствие с действащите нормативни документи приложими за АЕЦ като:

- IEEE Standard 344 – 2013 “Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations”;
- International Standard CEI/IEC 980 “Recommended Practice for Seismic Qualification of Electrical Equipment for Nuclear Power Generating Stations”;
- ANSI/AISC N690-06 “Specification for Safety-Related Steel Structures for Nuclear Facilities”.

2.3. Използването на други нормативни документи трябва да бъде обосновано.

3. Спектри на реагиране:

3.1. Приложение 1 (6 стр.) за кота -1⁻⁸⁰; кота на басейните; ХОГ:

Спектри на реагиране за ускорение за възел 412 /графичен и табличен вид/, съгласно отчет РИ/Д – 185 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ “Козлодуй” Приложение 1”, “Риск Инженеринг” ООД, май 2000г. – Фиг.П1-4 и Таблица П2-4 за МРЗ и Фиг.П1-16 и Таблица П2-16 за локални земетресения.

3.2. Приложение 2 (6 стр.) за кота +10⁻⁵⁰; ред Г; ос 8; ХОГ:

Спектри на реагиране за ускорение за възел 887 /графичен и табличен вид/, съгласно отчет РИ/Д – 185 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ “Козлодуй” Допълнение 1”, “Риск Инженеринг” ООД, май 2000г. – Фиг.Д.23 и Таблица Д-17 за МРЗ и Фиг.Д.42 и Таблица Д-36 за локални земетресения.

3.3. Приложение 3 (6 стр.) за кота +11^{.70}; ред В; ос 8; ХОГ:

Спектри на реагиране за ускорение за възел 961 /графичен и табличен вид/, съгласно отчет РИ/Д – 185 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ “Козлодуй” Допълнение 1”, “Риск Инженеринг” ООД, май 2000г. – Фиг.Д.24 и Таблица Д-18 за МРЗ и Фиг.Д.43 и Таблица Д-37 за локални земетресения.

3.4. Приложение 4 (6 стр.) за кота +7^{.20}; пом. 222; ХОГ:

Спектри на реагиране за ускорение за възел 702 /графичен и табличен вид/, съгласно отчет РИ/Д – 185 “Актуализирани етажни спектри на реагиране за укрепената конструкция на ХОГ на АЕЦ “Козлодуй” Допълнение 1”, “Риск Инженеринг” ООД, май 2000г. – Фиг.Д.20 и Таблица Д-14 за МРЗ и Фиг.Д.39 и Таблица Д-33 за локални земетресения.

4. Кратка обосновка и допълнителни изисквания:

4.1. Определяне на сеизмичното въздействие:

4.1.1. Приложените спектри са за ниво **МРЗ** (вероятност за поява 10^{-4}) за строителната конструкция на ХОГ.

4.1.2. Стойностите на спектрите за **ПЗ** (вероятност за поява 10^{-2}) се получават като стойностите на спектрите за **МРЗ** се редуцират два пъти.

4.1.3. За площадка АЕЦ “Козлодуй” максималното ускорение при нулев период на спектъра на реагиране за свободна повърхност за **МРЗ**=0.2g и за **ПЗ**=0.1g.

4.1.4. Стойностите за затихването да се определят в съответствие с използвания нормативен документ, например NRC RG 1.61 “Damping values for seismic design of nuclear power plants” или друг приложим нормативен документ.

4.1.5. При необходимост от една хоризонтална съставяща, то тя се получава чрез корен квадратен от сумата на квадратите на спектрите на реагиране за двете хоризонтални съставящи.

4.1.6. При необходимост от използването на акселерограма, тя трябва да има следните параметри:

- продължителност - 61 сек.
- фаза на нарастване - 4 сек.
- интензивна част - 17 сек.
- фаза на затихване - 40 сек.

4.1.7. При определяне на сеизмичното въздействие да се отчита и реакцията на междинни конструкции, разположени между основната кота, за която се отнасят приложените спектри или е изчислено сеизмичното въздействие и основното оборудване (например монтиране на фундамент, стена, метална рама или помощна метална конструкция) с подходящ коефициент на усилване, но не по-малък от 1.5.

4.2. Методика за доказване на сеизмоустойчивост:

4.2.1. Аналитичен метод – приложим е за доказване сеизмоустойчивостта на детайлите за закрепване на оборудването от т.1.1. За целта е необходимо да се извършат якостни изчисления при комбинации от натоварвания, включващи и сеизмичното въздействие за:

- детайлите за закрепване на датчиците към строителната конструкция (планки, фланци, шпилки, болтове, заварки и др.);
- детайлите за закрепване на разпределителните и захранващите табла към опорната конструкция;
- конструкцията на опорите за разпределителните и захранващите ел.табла;
- детайлите за закрепване на опорната конструкция на таблата към строителната конструкция;
- конструкцията на кабелните трасета и опорните им конструкции, закрепването на кабелните трасета към опорите им и закрепването на опорите към строителната конструкция.

В съответствие с т.5.6 на НП-031-01 сеизмичното въздействие за анализите, дефинирано с трикомпонентен спектър на реагиране (или акселерограми), да се прилага едновременно в трите направления.

4.2.2. Експериментален метод – да се използва за сеизмична квалификация на датчиците, разпределителните и захранващите ел. табла по изискванията на указаните в т.2.2 документи.

4.2.3. Доказване на сеизмоустойчивост по резултатите от по-рано извършени типови динамични изпитания - доказване на сеизмоустойчивостта на оборудването е възможно при извършване на сеизмична квалификация по резултати от по-рано извършени:

- типови изчисления и/или динамични изпитания;
- изчисления и/или динамични изпитания на подобно оборудване;
- изчисления и/или динамични изпитания за други обекти.

Приложимостта на резултатите от по-рано извършвани изчисления и/или тестове се извършва по критериите и последователността, описана в т.5.4.

5. Документиране на квалификацията за сеизмоустойчивост

5.1. Новото оборудване трябва да има документ, доказващ сеизмоустойчивостта му чрез анализ или тест за конкретните спектри на реагиране за мястото на монтиране или за по-консервативно изчислено сеизмично въздействие (т.4.1.7).

5.2. При извършване на сеизмична квалификация на оборудването чрез анализ, документът за сеизмична квалификация трябва да съдържа: използвани нормативни документи; метод за сеизмична квалификация; ниво на въздействие; необходим (изчислителен) спектър на реагиране (НСР); изчислителен модел; комбинации на натоварване; допустими стойности на оценяваните параметри; използвани критерии за оценка; схема на натоварване; подробно описание на получените резултати (включително: собствени честоти; собствени форми; диаграми на получени усилия, деформации, напрежения, премествания и др.); таблица с опорните реакции в точките на закрепване на оборудването; компактдиск (CD), съдържащ пълна разпечатка от компютърната програма за извършените изчисления; обобщение, анализ на получените резултати и заключения за сеизмоустойчивост.

5.3. При сеизмично квалифициране чрез динамичен тест, докладът за сеизмична квалификация недвусмислено да доказва запазване на структурна цялост и функционалност по време на и след земетресение с ниво МРЗ на конкретно доставяното за АЕЦ "Козлодуй" оборудване. Независимо дали ще се извършват изпитания за конкретно доставяното оборудване по конкретната доставка или се използват резултати от по-рано извършени типови изпитания, изпитания за други обекти или изпитания на подобно оборудване документът от проведените изпитания за сеизмична квалификация трябва да включва:

5.3.1. **Програма и методика** за изпитания, съответстваща на нормативните документи (напр. IEEE 344). Тази програма (спецификация) трябва да представи: информация за конкретното изпитвано оборудване (включително: класификация, идентификация, размери, маса, център на тежестта, монтажни схеми, изпълнявани функции и др.); метод на изпитване (синусоидално въздействие, акселерограма и т.н.); вид на въздействието (едноосно, двуосно или по трите оси едновременно); определяне на сеизмично въздействие (НСР) за мястото на монтиране със съответните коригиращи коефициенти, отчитащи и евентуално взаимовлияние между отделните оси при едноосно или двуосно изпитване; необходими функционални проверки (мониторинг и регистрация на следените параметри преди, по време на и след сеизмичните тестове, критерии за успешност, използвано допълнително оборудване и свързването му, бланки за отразяване на резултатите); точна последователност на изпитване - определяне на собствени честоти по отделните оси; брой и ниво на въздействие (МРЗ, ПЗ), функционални проверки; изисквания за монтаж и свързване; критерии за успешност на изпитанията; начин за оформяне на документацията по изпитанията и т.н.

5.3.2. **Отчет от проведени изпитания** за доказване на сеизмичната квалификация на оборудването. В отчета трябва да са представени:

- основание и цел на сеизмичните квалификационни изпитвания;

- класификация и параметри на оборудването (ако е необходимо се включват и схеми);
- информация за лабораторията и оборудването, с което се извършва изпитването – местоположение, акредитация, сертификати, свидетелства за калибриране и др.: описание и схема на тестовата установка;
- нормативни документи, на които съответстват сеизмичните изпитания;
- схема на монтиране на оборудването към сеизмичната платформа (обоснована в Програмата и отговаряща на монтажа на място в АЕЦ);
- използвано тестово сеизмично въздействие (обосновано в Програмата);
- процедура (брой и последователност на извършваните тестове при нива ПЗ и МРЗ за съответните компоненти) и инструментиране на сеизмичните изпитания (схема на разположение на акселерометрите);
- резултати от сеизмичните квалификационни изпитвания - графики на необходим спектър на реагиране (НСР) и изпитвателен спектър на реагиране (ИСП), акселерограми на движението на платформата и на характерни точки от оборудването; стойности на определените резонансни честоти; стойности (графики) на следени параметри за функционалност;
- заключения и препоръки (ако е необходимо) за проведената квалификация;
- снимков материал.

5.3.3. Протокол за функционални изпитания при провеждането на сеизмични тестове – този протокол може да бъде самостоятелен документ или част от “Отчет от проведени изпитания...”. Протоколът съдържа както бланките от Програмата, попълнени с конкретни резултати от всички извършени проверки за функционалност – преди, по време на и след тестовете, така и анализ и оценка на получените резултати за функционалност.

5.4. При извършване на сеизмична квалификация по резултати от по-рано извършени типови динамични изпитания/изчисления, динамични изпитания/изчисления за други обекти или динамични изпитания/изчисления на подобно оборудване е необходимо, **доставчикът/проектантът да представи анализ и даде заключение за:**

5.4.1. Актуалност и приложимост на използваните нормативни документи и съответствието на представения документ за сеизмична квалификация с изискванията им.

5.4.2. Пълнотата (съдържание и обем) на документите от тестове/изчисленията за сеизмична квалификация в съответствие с изискваните в т.5.2 и т.5.3. Документите от тестовете/изчисленията се прилагат **в пълен обем**.

5.4.3. Подобие на тестваното/анализираното оборудване с конкретно доставяното/проектираното за АЕЦ “Козлодуй” на базата на изчисления – сравняват се физическите характеристики (размери, маса, център на тежестта, начин на монтаж, собствени честоти, материално затихване и др., имащи отношение към реагирането на оборудването при сеизмично въздействие); идентичност на функциите на оборудването; достатъчност на определените критерии и следени параметри за работоспособност преди, по време на и след сеизмично въздействие.

5.4.4. Приложимостта на сеизмичното въздействие, използвано при теста/изчисленията към мястото на монтаж в АЕЦ “Козлодуй” – сравняват се спектрите на реагиране и акселерограмата за мястото на монтаж в АЕЦ “Козлодуй”, определени по изискванията по-горе (т.3, т.4, и т.5.3.1) със спектъра и акселерограмата, използвани при теста като спектърът на тестовото въздействие трябва да покрива този за мястото на монтаж при едно и също затихване.

5.4.5. Достатъчност на представените доказателства за запазване на функционалност (**конкретни резултати от всички извършени проверки за функционалност – преди, по време на и след тестовете, както и анализ и оценка на получените резултати за функционалност**) и цялост по време на и след сеизмично въздействие. Доказателствата не трябва да имат само информативен или декларативен характер.

6. Предоставяне на документацията на Възложителя

6.1. Документите за сеизмична квалификация с анализ на детайлите за закрепване на оборудването (т.2.2.2 на ТЗ) се предоставят на етап Работен проект.

6.2. При извършване на динамичен тест за целите на конкретния проект – “Спецификацията (*програма и методика*) за сеизмична квалификация се представи на етап Работен проект (т.3.2.1 на ТЗ)

6.3. При сеизмична квалификация на доставяното оборудване чрез динамичен тест, в съответствие с изискванията на т. 4.9 на Инструкция по качество №30.ОУ.ОК.ИК.27 “Класификация на КСК. Степенувани изисквания по осигуряване на качеството.” и на т.3.2.1 на ТЗ – Документите за сеизмична квалификация се изпращат за преглед и съгласуване от цех ХТСиСК за проверка и приемливост на резултатите. Документите за сеизмичната квалификация да се предават поне два месеца преди доставката, с цел осигуряване оперативно време за преглед и внасяне на евентуални корекции в документите (отстраняване на забележки) преди фактическото извършване на доставката на оборудването.

7. Използвани съкращения:

АСУ – автоматизирана система за управление;

МРЗ – максимално разчетно земетресение;

ОЯГ – отработено ядрено гориво;

ПЗ – проектно земетресение;

ХОГ – хранилище за отработено гориво.

Заличено на основание
ЗЗЛД

Изготвил:

Заличено на
основание ЗЗЛД

Експерт “Сеизмичен контрол”
/И.ИЕ

Н-к цех ХТС
/

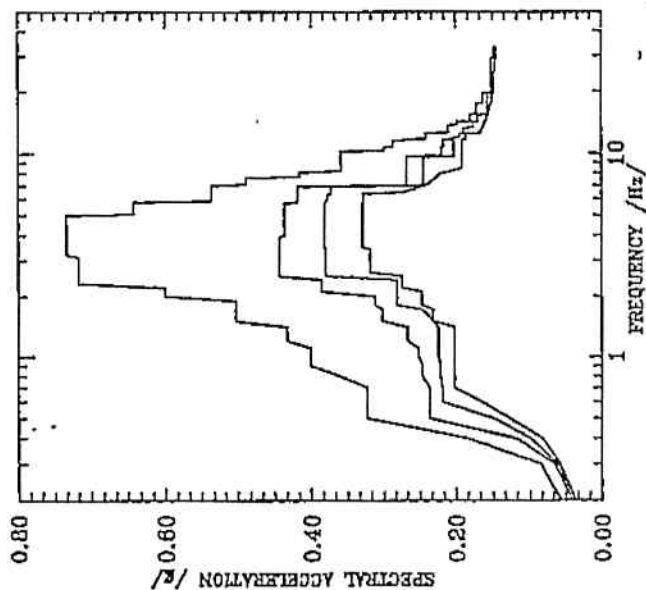
Съгласувал:

Заличено на

основание

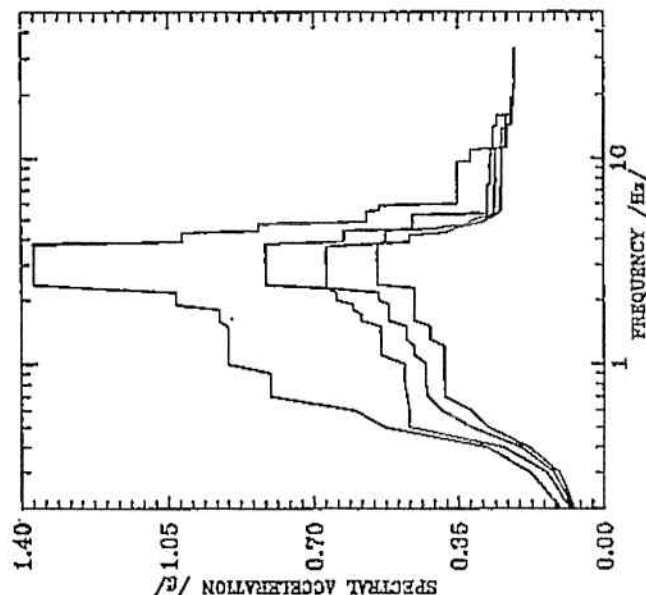
Р-л сектор “Сеизмичен контрол”:
ЗЗЛД етров/

ACCELERATION RESPONSE SPECTRA
RLE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 412
COMPONENT V



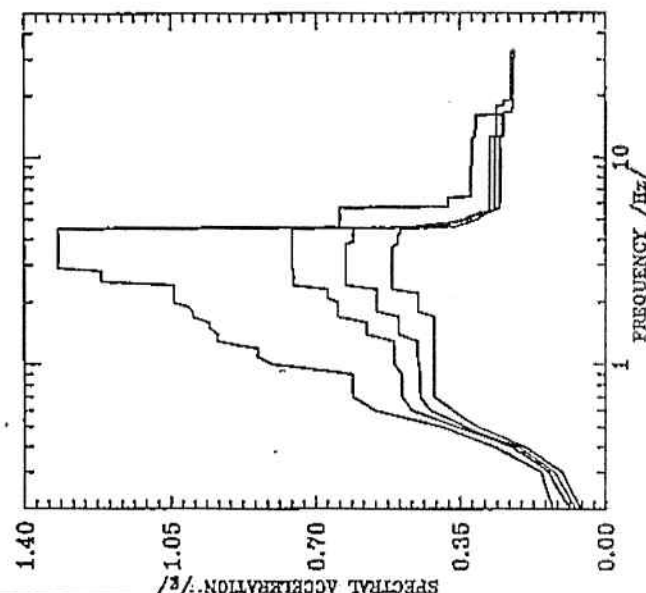
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 412, КОМПОНЕНТА V

ACCELERATION RESPONSE SPECTRA
RLE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 412
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 412, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
RLE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 412
COMPONENT L



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 412, КОМПОНЕНТА L

Фиг.П11-4 Спектри на реагиране.Въздействие - RLE, Възел 412

ТАБЛИЦА П2-4
СТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - RLE
ВЪЗРА 412

Hz	L			T			V		
	2%	5%	7%	10%	2%	5%	7%	10%	
.20	.1272	.0871	.0728	.0619	.1051	.0841	.0781	.0722	.0569
.30	.1560	.1370	.1237	.1067	.1812	.1391	.1226	.1100	.0847
.40	.2682	.2267	.2119	.1963	.2829	.2449	.2010	.1840	.1842
.50	.3947	.3585	.3365	.3080	.5287	.4682	.3175	.2786	.3227
.60	.5561	.4664	.4217	.3676	.6015	.4682	.3915	.3202	.3227
.70	.6103	.4901	.4474	.4135	.8033	.4738	.4240	.3838	.3227
.80	.6103	.4901	.4474	.4135	.8033	.4792	.4279	.3838	.3617
.90	.6103	.4901	.4474	.4135	.8033	.4792	.4279	.3838	.4007
1.00	.8056	.5090	.4500	.4135	.9044	.4792	.4279	.3838	.4007
1.10	.8401	.5090	.4527	.4135	.9044	.5376	.4570	.3838	.4007
1.20	.8401	.5090	.4527	.4135	.9044	.5376	.4570	.3838	.4334
1.30	.9357	.5090	.4527	.4135	.9044	.5376	.4755	.4177	.4334
1.40	.9357	.5770	.4980	.4135	.9044	.5376	.4755	.4177	.4334
1.50	.9559	.5770	.4980	.4135	.9044	.5376	.4755	.4177	.5030
1.60	.9559	.5770	.4980	.4135	.9266	.5838	.5174	.4571	.5030
1.70	.9965	.6469	.4980	.4135	.9266	.5838	.5174	.4571	.5030
1.80	.9965	.6469	.5515	.4520	.9266	.6036	.5174	.4571	.5030
1.90	1.0080	.6469	.5515	.4520	1.0330	.6036	.5174	.4571	.6007
2.00	1.0430	.6469	.5515	.4520	1.0330	.6449	.5423	.4571	.6007
2.10	1.0430	.6714	.5515	.4520	1.0330	.6449	.5423	.4571	.6007
2.20	1.0430	.6714	.5515	.4520	1.0330	.6449	.5423	.4571	.6007
2.30	1.0430	.6714	.5515	.5139	1.2450	.6693	.6693	.4571	.7174
2.40	1.0430	.7541	.6282	.5139	1.3710	.8141	.6693	.5452	.7174
2.50	1.2160	.7541	.6282	.5139	1.3710	.8141	.6693	.5452	.7174
2.60	1.2160	.7541	.6282	.5139	1.3710	.8141	.6693	.5452	.7174
2.70	1.2160	.7541	.6282	.5139	1.3710	.8141	.6693	.5452	.7174
2.80	1.2160	.7541	.6282	.5139	1.3710	.8141	.6693	.5452	.7174
2.90	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7174
3.00	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7174
3.10	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7341
3.20	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7341
3.30	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7341
3.40	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7341

ТАБЕЛИЦА ПЗ-4 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
3.50	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7341	.4440	.3820	.3294
3.60	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7341	.4440	.3820	.3294
3.70	1.3180	.7573	.6282	.5139	1.3710	.8141	.6693	.5452	.7341	.4440	.3820	.3294
3.80	1.3180	.7573	.6282	.5002	1.3710	.8141	.5452	.5452	.7341	.4440	.3820	.3294
3.90	1.3180	.7573	.6097	.5002	1.0160	.6256	.5263	.4679	.7341	.4440	.3820	.3294
4.00	1.3180	.7573	.6097	.5002	1.0160	.6256	.5263	.4679	.7341	.4372	.3820	.3294
4.10	1.3180	.7573	.6097	.5002	1.0160	.6256	.5263	.4679	.7341	.4372	.3820	.3294
4.20	1.3180	.7573	.6097	.5002	1.0160	.6256	.5263	.4679	.7341	.4372	.3820	.3294
4.30	1.3180	.7573	.6097	.4938	1.0160	.6256	.5263	.3822	.7341	.4372	.3820	.3294
4.40	1.3180	.7573	.6097	.4938	.8314	.6256	.5263	.3689	.7341	.4372	.3820	.3294
4.50	1.3180	.7573	.6097	.4938	.8314	.4596	.4051	.3612	.7341	.4372	.3820	.3294
4.60	.6416	.4652	.4127	.3615	.8314	.4596	.3828	.3468	.7341	.4372	.3820	.3294
4.70	.6416	.4289	.3861	.3472	.8314	.4596	.3512	.3281	.7341	.4372	.3820	.3294
4.80	.6416	.3833	.3586	.3312	.8314	.4596	.3266	.3084	.7341	.4372	.3820	.3294
4.90	.6416	.3554	.3399	.3204	.5717	.4596	.3211	.2921	.7341	.4372	.3820	.3294
5.00	.6416	.3446	.3280	.3088	.5717	.4596	.3099	.2838	.7341	.4372	.3820	.3294
5.10	.6416	.3327	.3202	.3043	.5717	.4596	.3010	.2760	.6425	.4372	.3820	.3294
5.20	.6416	.3249	.3100	.2952	.5717	.4596	.2855	.2664	.6425	.4372	.3820	.3294
5.30	.6416	.3134	.3007	.2862	.5717	.4596	.2713	.2600	.6425	.4372	.3820	.3294
5.40	.6416	.3009	.2898	.2785	.5717	.2811	.2635	.2554	.6425	.4372	.3820	.3294
5.50	.6416	.2855	.2780	.2705	.5717	.2811	.2635	.2513	.6425	.4372	.3820	.3294
5.60	.6416	.2792	.2663	.2626	.5405	.2811	.2635	.2476	.6425	.4372	.3820	.3294
5.70	.6416	.2792	.2663	.2555	.5405	.2811	.2635	.2473	.6425	.4372	.3820	.3294
5.80	.3782	.2792	.2663	.2547	.5405	.2811	.2635	.2473	.6425	.4186	.3799	.3284
5.90	.3782	.2792	.2663	.2547	.5405	.2811	.2635	.2473	.5364	.4186	.3799	.3284
6.00	.3782	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3771	.3284
6.10	.3782	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3771	.3284
6.20	.3782	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3771	.3284
6.30	.3782	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3771	.3284
6.40	.3782	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3717	.2719
6.50	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3717	.2665
6.60	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3717	.2598
6.70	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3717	.2525
6.80	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3717	.2525

ТАБЛИЦА П2-4 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.90	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.3717	.2464
7.00	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.5364	.4186	.2536	.2425
7.10	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.4888	.2683	.2463	.2391
7.20	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.4888	.2683	.2449	.2363
7.30	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2473	.4888	.2683	.2449	.2339
7.40	.3249	.2792	.2663	.2547	.3528	.2811	.2635	.2467	.4888	.2683	.2449	.2318
7.50	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.4888	.2683	.2449	.2297
7.60	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.4888	.2683	.2449	.2275
7.70	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.4158	.2683	.2449	.2270
7.80	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.4158	.2683	.2449	.2255
7.90	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.4158	.2683	.2449	.2228
8.00	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.4158	.2683	.2449	.2187
8.10	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.4158	.2683	.2449	.2136
8.20	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.2079
8.30	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.2020
8.40	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1965
8.50	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1919
8.60	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
8.70	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
8.80	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
8.90	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.00	.3249	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.10	.3206	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.20	.3206	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.30	.3206	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.40	.3206	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.50	.3206	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.60	.3206	.2792	.2663	.2547	.3528	.2748	.2596	.2467	.3591	.2683	.2449	.1911
9.70	.3206	.2792	.2663	.2547	.3188	.2748	.2596	.2467	.3591	.2683	.2031	.1911
9.80	.3206	.2792	.2663	.2547	.3188	.2748	.2596	.2467	.3591	.2202	.2031	.1911
9.90	.3206	.2792	.2663	.2547	.3188	.2748	.2596	.2467	.3591	.2202	.2031	.1911
10.00	.3206	.2792	.2663	.2547	.3188	.2717	.2596	.2467	.3591	.2202	.2031	.1911
10.10	.3206	.2792	.2663	.2547	.3188	.2717	.2596	.2467	.3591	.2202	.2031	.1911
10.20	.3206	.2792	.2663	.2547	.3188	.2717	.2596	.2467	.3591	.2202	.2031	.1911

ТАБЛИЦА П2-4 - Продължение

Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
10.30	3206	2792	2663	2547	3188	2717	2596	2467	2988	2202	2031	1911
10.40	3206	2792	2663	2547	3188	2717	2596	2467	2988	2202	2031	1911
10.50	3206	2792	2663	2547	3188	2717	2596	2467	2988	2202	2031	1911
10.60	3206	2792	2663	2547	3188	2717	2596	2467	2988	2202	2031	1911
10.70	3206	2792	2663	2547	3188	2717	2596	2467	2988	2176	2031	1911
10.80	3206	2792	2663	2547	3188	2717	2596	2467	2872	2176	2031	1911
10.90	3206	2792	2663	2547	3188	2717	2596	2467	2872	2176	2031	1911
11.00	3206	2792	2663	2547	3188	2717	2596	2467	2872	2176	2031	1911
11.10	3206	2792	2663	2547	3188	2717	2596	2467	2872	2176	2031	1911
11.20	3206	2792	2663	2547	2717	2459	2391	2329	2872	2176	2031	1911
11.30	3206	2792	2663	2547	2659	2459	2391	2329	2872	2176	2031	1911
11.40	3206	2792	2663	2547	2659	2459	2391	2327	2872	2176	2031	1911
11.50	3206	2792	2663	2547	2659	2459	2391	2326	2872	2176	2031	1911
11.60	3206	2792	2663	2547	2659	2459	2391	2326	2716	2176	2031	1911
11.70	3206	2792	2663	2547	2659	2459	2391	2326	2716	2176	2031	1911
11.80	3206	2792	2663	2547	2659	2459	2391	2326	2419	2031	2031	1858
11.90	3206	2792	2663	2547	2659	2459	2391	2326	2419	2031	2031	1858
12.00	3206	2792	2663	2547	2659	2459	2391	2326	2419	1950	1950	1858
12.10	3206	2792	2663	2547	2659	2459	2391	2326	2419	1950	1950	1858
12.20	3206	2792	2663	2547	2659	2459	2391	2326	2419	1950	1950	1858
12.30	3206	2792	2663	2547	2659	2459	2391	2326	2419	1950	1950	1858
12.40	3206	2792	2663	2547	2659	2459	2391	2326	2419	1950	1950	1858
12.50	3148	2792	2663	2547	2659	2459	2391	2326	2419	1950	1950	1858
12.60	3148	2792	2663	2547	2659	2459	2391	2326	2419	1893	1675	1659
12.70	3148	2627	2514	2441	2659	2459	2391	2326	2101	1893	1671	1654
12.80	3148	2627	2514	2441	2659	2459	2391	2326	2101	1893	1665	1650
12.90	3148	2627	2514	2441	2659	2459	2391	2326	2101	1893	1660	1645
13.00	3148	2627	2514	2441	2659	2459	2391	2326	2101	1893	1654	1640
13.10	3148	2627	2514	2441	2659	2459	2391	2326	2101	1893	1648	1635
13.20	3148	2627	2514	2441	2659	2459	2391	2326	2101	1888	1642	1631
13.30	3148	2627	2514	2441	2659	2459	2391	2326	2101	1888	1637	1626
13.40	3148	2627	2514	2441	2659	2459	2391	2326	2101	1760	1632	1622
13.50	3148	2627	2514	2441	2659	2459	2391	2326	2101	1760	1629	1618
13.60	3148	2627	2514	2441	2659	2459	2391	2326	2101	1760	1627	1615

ТАБЛИЦА П2-4 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.70	.3111	.2627	.2514	.2441	.2659	.2459	.2391	.2326	.2101	.1760	.1624	.1612
13.80	.3111	.2627	.2514	.2441	.2659	.2459	.2391	.2326	.1982	.1760	.1622	.1609
13.90	.3111	.2627	.2514	.2441	.2659	.2377	.2326	.2326	.1982	.1760	.1619	.1606
14.00	.3111	.2627	.2514	.2441	.2659	.2377	.2326	.2326	.1982	.1760	.1616	.1603
14.10	.3111	.2627	.2514	.2441	.2573	.2377	.2326	.2326	.1982	.1760	.1613	.1599
14.20	.3111	.2627	.2514	.2441	.2573	.2377	.2326	.2326	.1982	.1760	.1608	.1596
14.30	.3111	.2627	.2514	.2441	.2573	.2377	.2326	.2326	.1982	.1760	.1603	.1592
14.40	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1597	.1588
14.50	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1590	.1584
14.60	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1584	.1580
14.70	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1578	.1577
14.80	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1573	.1573
14.90	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1570	.1570
15.00	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1567	.1567
15.10	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1567	.1567
15.20	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1565	.1565
15.30	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1565	.1563
15.40	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1565	.1561
15.50	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1693	.1565	.1559
15.60	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1797	.1566	.1565	.1557
15.70	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2210	.1717	.1566	.1565	.1555
15.80	.3111	.2627	.2514	.2441	.2573	.2377	.2223	.2209	.1717	.1566	.1565	.1553
15.90	.3111	.2627	.2514	.2441	.2573	.2242	.2221	.2209	.1717	.1566	.1565	.1551
16.00	.3111	.2627	.2514	.2441	.2290	.2242	.2220	.2208	.1717	.1566	.1565	.1549
16.10	.3111	.2627	.2514	.2441	.2279	.2242	.2217	.2206	.1717	.1566	.1565	.1547
16.20	.2641	.2512	.2512	.2441	.2263	.2242	.2215	.2205	.1717	.1566	.1565	.1545
16.30	.2641	.2512	.2512	.2441	.2244	.2242	.2213	.2204	.1717	.1566	.1565	.1543
16.40	.2641	.2512	.2512	.2441	.2242	.2242	.2211	.2203	.1717	.1566	.1565	.1541
16.50	.2641	.2441	.2441	.2441	.2242	.2242	.2209	.2202	.1717	.1566	.1565	.1539
16.60	.2641	.2441	.2441	.2441	.2242	.2242	.2207	.2201	.1717	.1566	.1565	.1537
16.70	.2641	.2277	.2277	.2277	.2242	.2242	.2205	.2199	.1717	.1566	.1565	.1535
16.80	.2641	.2272	.2272	.2272	.2242	.2242	.2203	.2198	.1717	.1566	.1565	.1532
16.90	.2641	.2268	.2268	.2268	.2242	.2242	.2201	.2197	.1717	.1566	.1565	.1530
17.00	.2641	.2264	.2264	.2264	.2242	.2242	.2200	.2196	.1717	.1566	.1565	.1528

ТАБЛИЦА П2-4 - Продължение

Hz	I				T				V			
	2θ	5θ	7θ	10θ	2θ	5θ	7θ	10θ	2θ	5θ	7θ	10θ
17.10	.2641	.2261	.2261	.2261	.2242	.2242	.2198	.2195	.1717	.1566	.1565	.1526
17.20	.2641	.2257	.2257	.2257	.2242	.2242	.2196	.2193	.1717	.1566	.1565	.1524
17.30	.2641	.2254	.2254	.2254	.2242	.2242	.2195	.2192	.1717	.1566	.1565	.1522
17.40	.2641	.2251	.2251	.2251	.2242	.2242	.2194	.2191	.1717	.1566	.1565	.1520
17.50	.2641	.2251	.2248	.2248	.2242	.2242	.2192	.2190	.1619	.1566	.1565	.1518
17.60	.2641	.2251	.2245	.2245	.2242	.2242	.2191	.2189	.1619	.1566	.1565	.1516
17.70	.2641	.2251	.2243	.2243	.2242	.2242	.2190	.2188	.1619	.1566	.1565	.1514
17.80	.2641	.2251	.2243	.2240	.2242	.2242	.2189	.2187	.1619	.1566	.1565	.1513
17.90	.2463	.2251	.2243	.2240	.2242	.2242	.2188	.2186	.1619	.1566	.1565	.1511
18.00	.2463	.2251	.2243	.2240	.2242	.2242	.2187	.2185	.1619	.1566	.1565	.1509
18.10	.2463	.2251	.2243	.2240	.2242	.2242	.2186	.2184	.1619	.1566	.1565	.1508
18.20	.2463	.2251	.2243	.2240	.2242	.2242	.2185	.2183	.1619	.1566	.1565	.1506
18.30	.2463	.2251	.2243	.2240	.2242	.2242	.2184	.2182	.1619	.1566	.1565	.1505
18.40	.2463	.2251	.2243	.2240	.2242	.2242	.2183	.2181	.1619	.1566	.1565	.1504
18.50	.2463	.2251	.2243	.2240	.2242	.2242	.2182	.2180	.1619	.1566	.1565	.1502
18.60	.2463	.2251	.2243	.2240	.2242	.2242	.2181	.2180	.1619	.1566	.1565	.1501
18.70	.2463	.2251	.2243	.2240	.2242	.2242	.2180	.2179	.1619	.1566	.1565	.1500
18.80	.2463	.2251	.2243	.2240	.2242	.2242	.2179	.2178	.1619	.1566	.1498	.1498
18.90	.2463	.2251	.2243	.2240	.2242	.2242	.2178	.2177	.1619	.1566	.1497	.1497
19.00	.2304	.2251	.2243	.2240	.2242	.2242	.2177	.2176	.1619	.1566	.1496	.1496
19.10	.2304	.2251	.2243	.2240	.2242	.2242	.2176	.2176	.1619	.1566	.1495	.1495
19.20	.2304	.2251	.2243	.2240	.2242	.2242	.2176	.2175	.1619	.1566	.1494	.1494
19.30	.2304	.2251	.2243	.2240	.2242	.2242	.2175	.2174	.1619	.1566	.1493	.1493
19.40	.2304	.2251	.2243	.2240	.2242	.2242	.2174	.2174	.1619	.1566	.1492	.1492
19.50	.2304	.2251	.2243	.2240	.2176	.2174	.2174	.2173	.1619	.1566	.1491	.1491
19.60	.2304	.2251	.2243	.2240	.2176	.2173	.2173	.2172	.1619	.1490	.1490	.1490
19.70	.2304	.2251	.2243	.2240	.2176	.2173	.2173	.2172	.1619	.1490	.1489	.1489
19.80	.2304	.2251	.2243	.2240	.2176	.2172	.2172	.2171	.1513	.1489	.1489	.1489
19.90	.2304	.2251	.2243	.2240	.2176	.2172	.2172	.2170	.1513	.1489	.1489	.1489
20.00	.2304	.2251	.2243	.2240	.2176	.2172	.2171	.2170	.1513	.1489	.1489	.1489
20.10	.2304	.2251	.2243	.2239	.2176	.2171	.2170	.2168	.1513	.1489	.1489	.1489
20.20	.2304	.2251	.2243	.2239	.2176	.2171	.2169	.2168	.1513	.1489	.1489	.1489
20.30	.2304	.2251	.2243	.2239	.2176	.2170	.2169	.2167	.1513	.1489	.1489	.1489
20.40	.2304	.2250	.2243	.2239	.2176	.2170	.2168	.2166	.1513	.1489	.1489	.1489

ТАБЛИЦА П2-4 – Продължение

Hz	L			T			V		
	2%	5%	7%	10%	2%	5%	7%	10%	2%
20.50	.2304	.2249	.2242	.2238	.2176	.2170	.2168	.2166	.1513
20.60	.2304	.2249	.2242	.2238	.2176	.2169	.2167	.2165	.1513
20.70	.2304	.2249	.2242	.2238	.2176	.2169	.2167	.2165	.1513
20.80	.2304	.2249	.2242	.2238	.2175	.2168	.2166	.2164	.1513
20.90	.2304	.2249	.2242	.2238	.2174	.2167	.2165	.2163	.1513
21.00	.2304	.2249	.2242	.2237	.2172	.2167	.2165	.2163	.1513
21.10	.2304	.2249	.2242	.2237	.2170	.2166	.2164	.2162	.1513
21.20	.2304	.2249	.2242	.2237	.2168	.2165	.2163	.2161	.1513
21.30	.2304	.2249	.2242	.2237	.2167	.2164	.2162	.2161	.1513
21.40	.2304	.2249	.2242	.2237	.2165	.2163	.2162	.2160	.1513
21.50	.2304	.2249	.2242	.2237	.2164	.2162	.2161	.2159	.1513
21.60	.2304	.2249	.2242	.2237	.2163	.2161	.2160	.2159	.1513
21.70	.2304	.2249	.2242	.2237	.2163	.2161	.2159	.2158	.1513
21.80	.2304	.2249	.2242	.2237	.2163	.2160	.2158	.2157	.1513
21.90	.2304	.2249	.2242	.2237	.2163	.2159	.2158	.2157	.1513
22.00	.2304	.2249	.2242	.2237	.2162	.2158	.2157	.2156	.1513
22.10	.2304	.2249	.2242	.2237	.2161	.2157	.2156	.2155	.1513
22.20	.2304	.2249	.2242	.2237	.2160	.2156	.2155	.2155	.1513
22.30	.2304	.2249	.2242	.2237	.2159	.2155	.2154	.2154	.1513
22.40	.2304	.2249	.2242	.2237	.2157	.2154	.2153	.2153	.1513
22.50	.2304	.2249	.2242	.2237	.2156	.2153	.2153	.2153	.1513
22.60	.2304	.2249	.2242	.2237	.2154	.2153	.2152	.2152	.1513
22.70	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2151	.1513
22.80	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2151	.1513
22.90	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.00	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.10	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.20	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.30	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.40	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.50	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.60	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.70	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513
23.80	.2304	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513

ТАБЛИЦА П2-4 - Продължение

Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
23.90	.2299	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.00	.2291	.2249	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.10	.2290	.2248	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.20	.2290	.2248	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.30	.2290	.2248	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.40	.2290	.2247	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.50	.2290	.2247	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.60	.2290	.2246	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.70	.2290	.2246	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.80	.2290	.2245	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
24.90	.2290	.2245	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
25.00	.2290	.2245	.2242	.2237	.2153	.2153	.2152	.2150	.1513	.1489	.1489	.1489
25.10	.2290	.2245	.2242	.2236	.2153	.2153	.2152	.2150	.1513	.1470	.1469	.1469
25.20	.2290	.2245	.2242	.2235	.2153	.2153	.2152	.2150	.1513	.1470	.1468	.1468
25.30	.2290	.2245	.2242	.2235	.2153	.2153	.2152	.2150	.1513	.1470	.1467	.1467
25.40	.2290	.2245	.2242	.2235	.2153	.2153	.2152	.2150	.1513	.1470	.1467	.1467
25.50	.2290	.2245	.2242	.2234	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1466
25.60	.2290	.2245	.2242	.2234	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1466
25.70	.2290	.2245	.2242	.2233	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1466
25.80	.2290	.2245	.2242	.2233	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1466
25.90	.2290	.2245	.2242	.2233	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1466
26.00	.2290	.2245	.2242	.2232	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1465
26.10	.2290	.2245	.2242	.2232	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1465
26.20	.2290	.2244	.2242	.2232	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1465
26.30	.2290	.2244	.2242	.2231	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1465
26.40	.2290	.2243	.2242	.2231	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1465
26.50	.2290	.2242	.2242	.2231	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1464
26.60	.2290	.2242	.2242	.2230	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1464
26.70	.2290	.2242	.2242	.2230	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1464
26.80	.2290	.2242	.2242	.2229	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1464
26.90	.2290	.2242	.2242	.2229	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1464
27.00	.2290	.2242	.2242	.2228	.2153	.2153	.2152	.2150	.1513	.1470	.1466	.1463
27.10	.2290	.2242	.2242	.2226	.2153	.2153	.2152	.2150	.1513	.1469	.1465	.1463
27.20	.2290	.2242	.2242	.2227	.2153	.2153	.2152	.2150	.1513	.1469	.1465	.1463

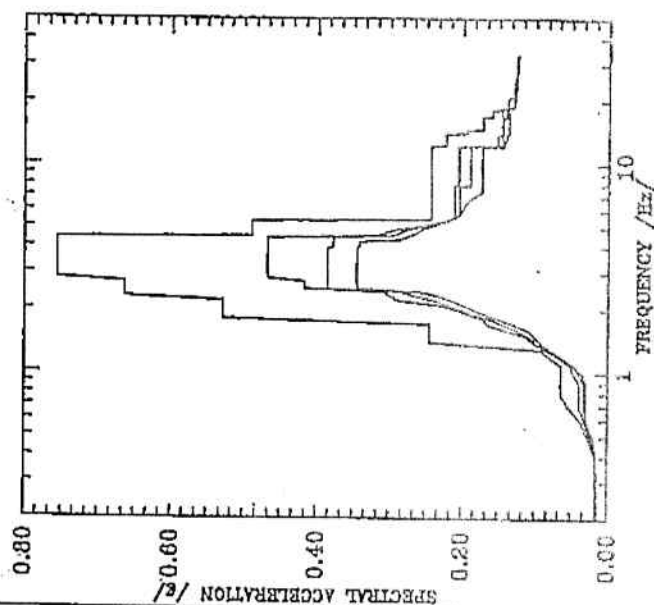
ТАБЛИЦА П2-4 - Продължение

Hz	L				T			V				
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.30	.2290	.2242	.2242	.2227	.2153	.2153	.2152	.2150	.1513	.1468	.1464	.1462
27.40	.2290	.2242	.2242	.2226	.2153	.2153	.2152	.2150	.1513	.1467	.1464	.1462
27.50	.2290	.2242	.2242	.2226	.2153	.2153	.2152	.2150	.1513	.1466	.1463	.1461
27.60	.2290	.2242	.2242	.2225	.2153	.2153	.2152	.2150	.1513	.1465	.1463	.1461
27.70	.2290	.2242	.2242	.2225	.2153	.2153	.2152	.2150	.1513	.1464	.1462	.1461
27.80	.2290	.2242	.2242	.2225	.2153	.2153	.2152	.2150	.1513	.1463	.1461	.1460
27.90	.2290	.2242	.2242	.2224	.2153	.2153	.2152	.2150	.1513	.1462	.1461	.1460
28.00	.2290	.2242	.2242	.2224	.2153	.2153	.2152	.2150	.1513	.1461	.1460	.1460
28.10	.2290	.2242	.2242	.2224	.2153	.2153	.2152	.2150	.1513	.1460	.1460	.1459
28.20	.2290	.2242	.2242	.2223	.2153	.2153	.2152	.2150	.1513	.1459	.1459	.1459
28.30	.2290	.2242	.2242	.2223	.2153	.2153	.2152	.2150	.1513	.1459	.1459	.1459
28.40	.2290	.2242	.2242	.2223	.2153	.2153	.2152	.2150	.1513	.1458	.1458	.1458
28.50	.2290	.2242	.2242	.2223	.2153	.2153	.2152	.2150	.1513	.1458	.1458	.1458
28.60	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1513	.1457	.1457	.1457
28.70	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1513	.1457	.1457	.1457
28.80	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1513	.1457	.1457	.1457
28.90	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1513	.1457	.1457	.1457
29.00	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1513	.1456	.1456	.1456
29.10	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1513	.1456	.1456	.1456
29.20	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1513	.1456	.1456	.1456
29.30	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1455	.1455
29.40	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1455	.1455
29.50	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1455	.1455
29.60	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1455	.1455
29.70	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1455	.1455
29.80	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
29.90	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
30.00	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
30.10	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
30.20	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
30.30	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
30.40	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
30.50	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454
30.60	.2290	.2242	.2242	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1454

ТАБЛИЦА П2-4 – Продължение

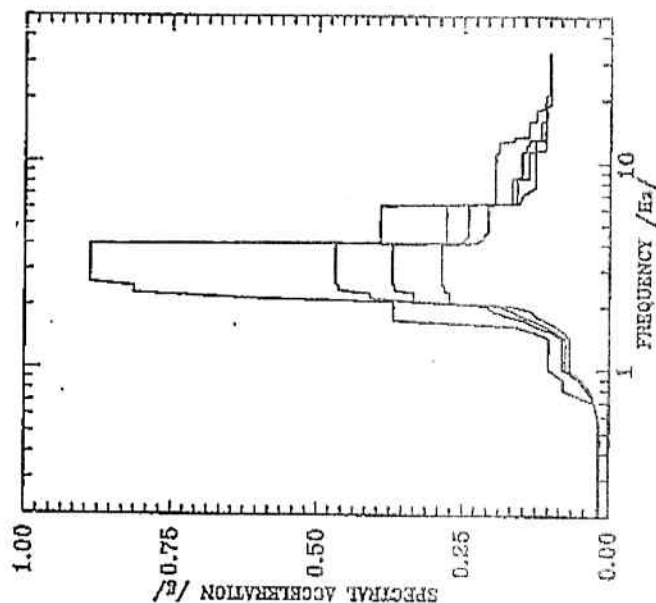
Hz	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
30.90	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.00	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.10	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.20	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.30	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.40	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.50	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.60	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.70	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.80	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
31.90	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.00	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.10	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.20	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.30	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.40	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.50	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.60	.2290	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.70	.2240	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.80	.2240	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
32.90	.2240	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1489	.1455	.1454	.1452				
33.00	.2240	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1472	.1455	.1454	.1452				
33.10	.2240	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1464	.1455	.1454	.1452				
33.20	.2240	.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1461	.1455	.1454	.1452				
		.2222	.2222	.2222	.2153	.2153	.2152	.2150	.1457	.1455	.1454	.1452				

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 412
COMPONENT L



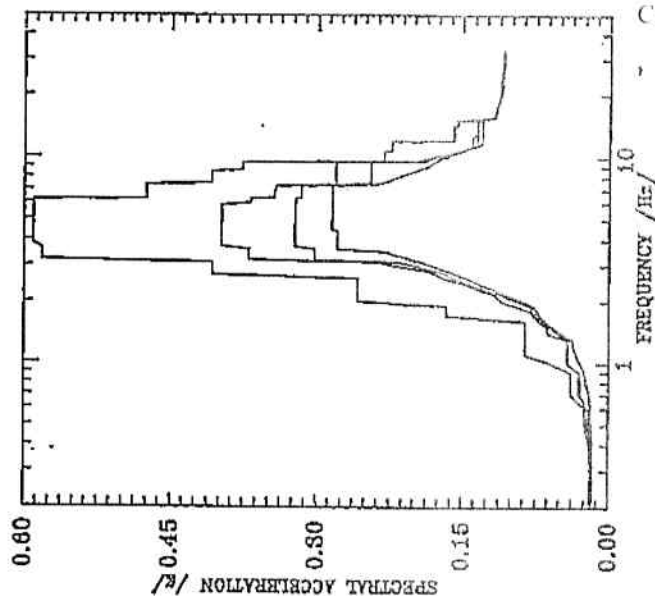
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗДЕИ 412, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 412
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗДЕИ 412, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 412
COMPONENT Y



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗДЕИ 412, КОМПОНЕНТА Y

Сп.ХТС-19 07.05.2020г.
Приложение 1
стр. 12/17

Фиг.П1-16 Спектри на реагиране.Въздействие - локални земетр. Възел 412

ТАБЛИЦА П2-16
БТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - ЛОКАЛНИ ЗЕМЕТРЕСНИИ
ВЪЗБА 412

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.0167	.0156	.0149	.0142	.0184	.0170	.0163	.0153	.0189	.0173	.0164	.0153
.40	.0173	.0163	.0163	.0162	.0184	.0170	.0163	.0153	.0200	.0181	.0172	.0155
.60	.0376	.0334	.0331	.0293	.0196	.0186	.0182	.0181	.0243	.0213	.0198	.0182
.80	.0642	.0393	.0331	.0293	.0787	.0395	.0363	.0325	.0383	.0294	.0243	.0218
1.00	.0642	.0473	.0415	.0362	.1041	.0792	.0737	.0672	.0586	.0415	.0287	.0287
1.20	.0805	.0684	.0664	.0634	.1041	.0792	.0737	.0672	.0856	.0415	.0365	.0355
1.40	.2454	.1028	.0988	.0930	.1041	.0792	.0737	.0672	.0856	.0613	.0513	.0466
1.60	.2454	.1377	.1230	.1105	.1631	.1264	.1093	.0911	.0856	.0715	.0678	.0640
1.80	.5282	.1709	.1623	.1496	.3694	.1759	.1521	.1257	.1662	.0809	.0782	.0745
2.00	.5282	.2120	.2017	.1870	.3694	.2118	.1894	.1689	.2576	.1091	.0926	.0855
2.20	.5282	.2898	.2383	.2142	.6297	.4106	.3345	.2721	.2576	.1224	.1165	.1075
2.40	.6636	.3093	.2839	.2529	.8136	.4636	.3671	.2821	.2576	.1451	.1378	.1294
2.60	.6636	.4182	.3865	.3456	.8885	.4690	.3718	.2872	.2576	.1695	.1590	.1467
2.80	.7557	.4682	.3865	.3456	.8885	.4690	.3718	.2872	.4068	.1858	.1762	.1663
3.00	.7557	.4682	.3865	.3456	.8885	.4690	.3718	.2872	.4068	.2230	.2021	.1834
3.20	.7557	.4682	.3865	.3456	.8885	.4690	.3718	.2872	.5816	.3696	.3022	.2027
3.40	.7557	.4682	.3865	.3456	.8885	.4690	.3718	.2872	.5816	.3696	.3022	.2226
3.60	.7557	.4682	.3865	.3456	.8885	.4690	.3718	.2872	.5816	.3696	.3022	.2788
3.80	.7557	.4682	.3865	.3456	.8885	.4690	.3718	.2872	.5904	.3975	.3229	.2788
4.00	.7557	.4682	.3781	.3420	.8885	.4690	.3718	.2872	.5904	.3975	.3229	.2788
4.20	.7557	.4682	.3781	.3420	.8885	.4690	.3718	.2872	.5904	.3975	.3229	.2788
4.40	.7557	.4682	.3781	.3420	.8885	.4690	.3718	.2872	.5904	.3975	.3229	.2788
4.60	.4885	.3089	.2889	.2661	.3919	.2779	.2508	.2226	.5904	.3975	.3229	.2788
4.80	.4885	.2918	.2764	.2577	.3919	.2779	.2407	.2144	.5904	.3975	.3229	.2788
5.00	.4885	.2639	.2555	.2439	.3919	.2779	.2407	.2073	.5904	.3975	.3229	.2840
5.20	.4885	.2380	.2350	.2292	.3919	.2779	.2407	.2073	.5904	.3975	.3229	.2840
5.40	.2441	.2193	.2193	.2171	.3919	.2779	.2407	.2073	.5904	.3975	.3229	.2840
5.60	.2441	.2108	.2097	.2084	.3919	.2779	.2407	.2073	.5904	.3975	.3229	.2840
5.80	.2441	.2108	.2050	.2031	.3919	.2779	.2407	.2073	.5904	.3975	.3229	.2840
6.00	.2441	.2108	.2047	.2007	.3919	.2779	.2407	.2073	.5904	.3975	.3229	.2840
6.20	.2441	.2108	.2047	.1992	.3919	.2779	.2407	.2073	.5904	.3686	.3224	.2840
6.40	.2441	.2108	.2047	.1972	.1948	.1665	.1589	.1546	.4751	.3441	.3165	.2840
6.60	.2441	.2108	.2047	.1936	.1948	.1665	.1589	.1523	.4751	.3441	.3165	.2840

ТАБЛИЦА П2-16 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.80	.2441	.2108	.2047	.1883	.1948	.1665	.1589	.1511	.4751	.3441	.3165	.2840
7.00	.2441	.2108	.2047	.1827	.1948	.1665	.1589	.1482	.4751	.3425	.3165	.2840
7.20	.2441	.2108	.2047	.1769	.1948	.1665	.1589	.1430	.4751	.3425	.3165	.2840
7.40	.2441	.2108	.2047	.1740	.1948	.1665	.1589	.1367	.4751	.2810	.2557	.2394
7.60	.2441	.2108	.2047	.1740	.1948	.1665	.1589	.1288	.4076	.2810	.2446	.2294
7.80	.2441	.2108	.2047	.1740	.1948	.1665	.1589	.1275	.4076	.2810	.2446	.2234
8.00	.2441	.2055	.1895	.1740	.1948	.1665	.1589	.1275	.4076	.2810	.2446	.2115
8.20	.2441	.2055	.1895	.1740	.1948	.1665	.1589	.1275	.4076	.2810	.2446	.2052
8.40	.2441	.2055	.1895	.1740	.1948	.1665	.1589	.1275	.4076	.2810	.2446	.1991
8.60	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1934
8.80	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1877
9.00	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1838
9.20	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1810
9.40	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1776
9.60	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1735
9.80	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1686
10.00	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1633
10.20	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1587
10.40	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1539
10.60	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1492
10.80	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1446
11.00	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1400
11.20	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1356
11.40	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1313
11.60	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
11.80	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
12.00	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
12.20	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
12.40	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
12.60	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
12.80	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
13.00	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
13.20	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301
13.40	.2441	.2055	.1895	.1740	.1948	.1507	.1380	.1275	.3765	.2810	.2446	.1301

ТАБЛИЦА П2-16 - Продолжение

Hz	I			T			V					
	28	58	78	108	28	58	78	108	28	58	78	108
13.60	.2230	.1514	.1456	.1403	.1385	.1182	.1127	.1102	.1593	.1348	.1348	.1301
13.80	.2230	.1498	.1456	.1395	.1385	.1182	.1127	.1102	.1593	.1348	.1348	.1301
14.00	.2230	.1465	.1456	.1383	.1385	.1182	.1127	.1102	.1593	.1348	.1348	.1301
14.20	.1947	.1459	.1456	.1372	.1385	.1182	.1127	.1102	.1593	.1348	.1348	.1301
14.40	.1947	.1459	.1456	.1372	.1385	.1182	.1126	.1100	.1557	.1348	.1348	.1301
14.60	.1947	.1459	.1456	.1372	.1385	.1182	.1120	.1097	.1557	.1348	.1348	.1301
14.80	.1724	.1459	.1456	.1372	.1385	.1182	.1111	.1093	.1557	.1348	.1348	.1301
15.00	.1724	.1459	.1456	.1372	.1385	.1182	.1104	.1089	.1557	.1348	.1348	.1301
15.20	.1724	.1459	.1456	.1372	.1385	.1182	.1104	.1089	.1373	.1297	.1297	.1297
15.40	.1724	.1459	.1456	.1372	.1385	.1182	.1104	.1089	.1297	.1297	.1297	.1297
15.60	.1724	.1459	.1456	.1372	.1385	.1182	.1104	.1089	.1188	.1179	.1177	.1174
15.80	.1724	.1459	.1456	.1372	.1255	.1104	.1104	.1089	.1184	.1176	.1174	.1170
16.00	.1724	.1459	.1456	.1372	.1255	.1104	.1104	.1089	.1178	.1173	.1170	.1167
16.20	.1724	.1459	.1456	.1372	.1255	.1104	.1104	.1089	.1173	.1170	.1167	.1164
16.40	.1724	.1459	.1456	.1372	.1255	.1104	.1104	.1089	.1168	.1167	.1164	.1161
16.60	.1724	.1459	.1456	.1372	.1255	.1104	.1104	.1089	.1165	.1164	.1162	.1158
16.80	.1724	.1459	.1411	.1372	.1255	.1104	.1104	.1089	.1165	.1161	.1159	.1155
17.00	.1594	.1459	.1411	.1372	.1255	.1104	.1104	.1089	.1165	.1156	.1156	.1152
17.20	.1594	.1459	.1411	.1372	.1255	.1104	.1104	.1089	.1165	.1157	.1154	.1150
17.40	.1594	.1459	.1411	.1372	.1255	.1104	.1104	.1089	.1164	.1154	.1151	.1147
17.60	.1594	.1459	.1411	.1372	.1255	.1104	.1104	.1089	.1161	.1151	.1148	.1144
17.80	.1594	.1459	.1411	.1372	.1255	.1104	.1104	.1089	.1155	.1148	.1145	.1141
18.00	.1594	.1459	.1411	.1372	.1124	.1104	.1104	.1089	.1149	.1145	.1142	.1139
18.20	.1594	.1459	.1411	.1372	.1124	.1104	.1104	.1089	.1142	.1141	.1139	.1136
18.40	.1450	.1450	.1372	.1372	.1124	.1104	.1104	.1089	.1138	.1138	.1136	.1134
18.60	.1450	.1450	.1372	.1372	.1124	.1104	.1104	.1089	.1135	.1135	.1133	.1131
18.80	.1386	.1372	.1372	.1372	.1124	.1027	.1025	.1024	.1133	.1132	.1131	.1129
19.00	.1386	.1299	.1299	.1299	.1124	.1027	.1021	.1021	.1131	.1129	.1128	.1126
19.20	.1386	.1297	.1297	.1297	.1124	.1027	.1020	.1018	.1129	.1127	.1126	.1124
19.40	.1386	.1294	.1294	.1294	.1107	.1027	.1020	.1016	.1127	.1125	.1123	.1122
19.60	.1366	.1293	.1293	.1293	.1107	.1027	.1020	.1014	.1126	.1122	.1121	.1120
19.80	.1386	.1291	.1291	.1291	.1107	.1027	.1020	.1014	.1124	.1120	.1119	.1117
20.00	.1386	.1291	.1289	.1289	.1107	.1027	.1020	.1014	.1121	.1118	.1116	.1115
20.20	.1386	.1291	.1286	.1286	.1107	.1027	.1020	.1014	.1116	.1113	.1112	.1111

0071-0072

ТАБЛИЦА П2-16 – Продължение

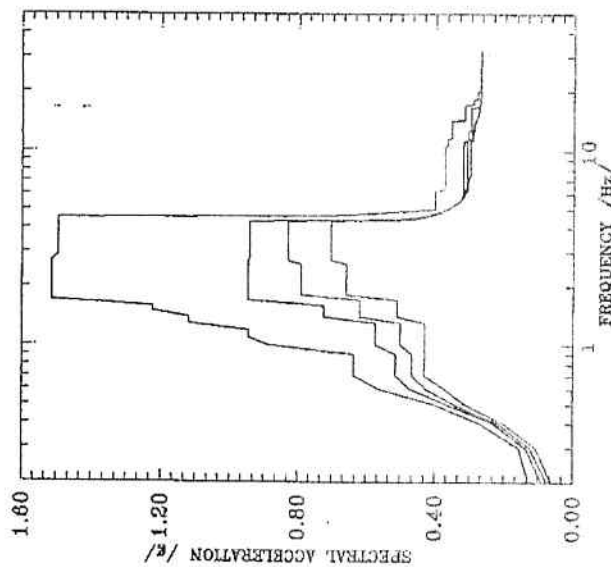
Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
20.40	.1386	.1291	.1288	.1089	.1027	.1020	.1114	.1110	.1109
20.60	.1386	.1291	.1288	.1089	.1027	.1020	.1114	.1107	.1107
20.80	.1386	.1291	.1287	.1089	.1027	.1020	.1114	.1105	.1105
21.00	.1328	.1291	.1286	.1089	.1027	.1020	.1114	.1104	.1104
21.20	.1312	.1291	.1285	.1041	.1027	.1020	.1114	.1102	.1102
21.40	.1312	.1289	.1284	.1041	.1027	.1020	.1114	.1101	.1101
21.60	.1311	.1286	.1281	.1041	.1027	.1020	.1114	.1101	.1100
21.80	.1306	.1284	.1279	.1041	.1027	.1020	.1114	.1101	.1099
22.00	.1303	.1280	.1277	.1041	.1027	.1020	.1114	.1101	.1098
22.20	.1303	.1276	.1274	.1041	.1027	.1020	.1114	.1101	.1097
22.40	.1303	.1276	.1272	.1041	.1027	.1020	.1114	.1101	.1096
22.60	.1303	.1276	.1271	.1041	.1027	.1020	.1114	.1101	.1096
22.80	.1303	.1276	.1270	.1041	.1027	.1020	.1114	.1101	.1096
23.00	.1303	.1276	.1270	.1041	.1027	.1020	.1114	.1101	.1095
23.20	.1303	.1276	.1270	.1041	.1027	.1020	.1114	.1101	.1095
23.40	.1303	.1276	.1270	.1041	.1027	.1020	.1114	.1101	.1095
23.60	.1303	.1276	.1270	.1041	.1027	.1020	.1114	.1101	.1095
23.80	.1303	.1276	.1270	.1041	.1027	.1020	.1113	.1100	.1095
24.00	.1303	.1276	.1270	.1041	.1027	.1020	.1110	.1099	.1094
24.20	.1303	.1276	.1270	.1041	.1027	.1020	.1107	.1099	.1094
24.40	.1300	.1276	.1270	.1041	.1027	.1020	.1105	.1099	.1094
24.60	.1299	.1276	.1270	.1041	.1027	.1020	.1105	.1099	.1094
24.80	.1296	.1276	.1269	.1041	.1027	.1020	.1105	.1099	.1093
25.00	.1294	.1275	.1268	.1041	.1027	.1020	.1105	.1099	.1093
25.20	.1288	.1272	.1267	.1041	.1027	.1020	.1105	.1099	.1093
25.40	.1285	.1269	.1266	.1041	.1027	.1020	.1105	.1098	.1092
25.60	.1280	.1265	.1264	.1041	.1027	.1020	.1105	.1097	.1091
25.80	.1277	.1262	.1262	.1041	.1027	.1020	.1105	.1097	.1091
26.00	.1277	.1260	.1260	.1041	.1027	.1020	.1105	.1097	.1090
26.20	.1277	.1258	.1258	.1041	.1027	.1020	.1105	.1097	.1089
26.40	.1277	.1258	.1257	.1041	.1027	.1020	.1103	.1097	.1088
26.60	.1277	.1258	.1256	.1041	.1027	.1020	.1099	.1097	.1087
26.80	.1277	.1258	.1255	.1041	.1027	.1020	.1097	.1097	.1086
27.00	.1277	.1258	.1255	.1041	.1027	.1020	.1097	.1097	.1086

ТАБЛИЦА П2-16 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.20	.1277	.1258	.1255	.1254	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1085
27.40	.1277	.1258	.1255	.1254	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1084
27.60	.1277	.1258	.1255	.1253	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
27.80	.1277	.1258	.1255	.1253	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
28.00	.1277	.1258	.1255	.1252	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
28.20	.1275	.1258	.1254	.1251	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
28.40	.1270	.1257	.1254	.1251	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
28.60	.1267	.1256	.1253	.1250	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
28.80	.1267	.1254	.1252	.1250	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
29.00	.1267	.1253	.1251	.1249	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
29.20	.1267	.1253	.1250	.1248	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
29.40	.1267	.1253	.1250	.1248	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
29.60	.1267	.1253	.1250	.1248	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
29.80	.1267	.1253	.1250	.1248	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
30.00	.1267	.1253	.1250	.1248	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
30.20	.1267	.1253	.1250	.1247	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
30.40	.1267	.1253	.1250	.1247	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
30.60	.1267	.1253	.1250	.1247	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
30.80	.1267	.1253	.1249	.1247	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
31.00	.1267	.1253	.1249	.1246	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
31.20	.1267	.1253	.1249	.1246	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
31.40	.1267	.1253	.1249	.1246	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
31.60	.1267	.1253	.1249	.1245	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
31.80	.1267	.1253	.1249	.1245	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
32.00	.1267	.1253	.1249	.1244	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
32.20	.1267	.1253	.1249	.1244	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
32.40	.1267	.1253	.1249	.1243	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
32.60	.1267	.1253	.1247	.1242	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
32.80	.1267	.1252	.1247	.1241	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
33.00	.1266	.1251	.1246	.1241	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083
33.20	.1264	.1250	.1244	.1240	.1041	.1027	.1020	.1014	.1097	.1097	.1097	.1083

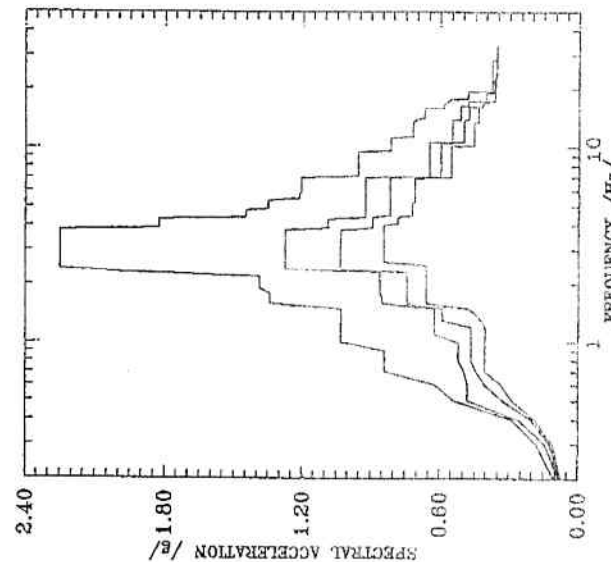
Спектри на реагиране за укрепената конструкция на ХОГ

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 887
COMPONENT L



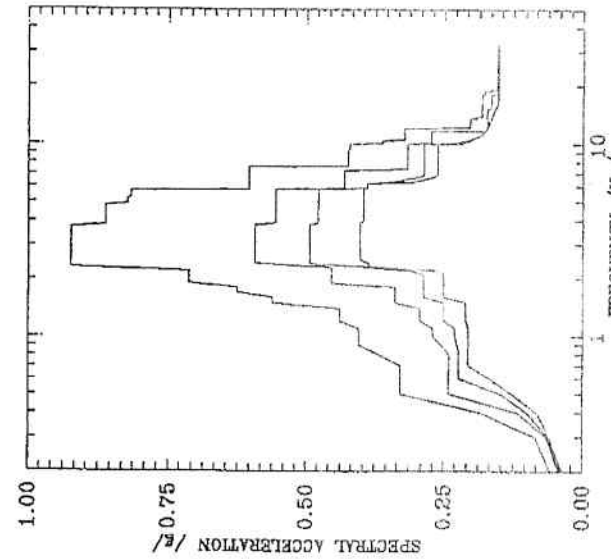
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 887, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 887
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 887, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
RLE
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 887
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
RLE, ОБВИВКИ
ХОГ
ЗАТИХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 887, КОМПОНЕНТА V

Фиг.Д.23 Спектри на реагиране. Воздействие -RLE. Възел 887

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-17
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - RLE
ВЪЗЕЛ 887

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
.20	.1275	.0873	.0730	.1056	.0844	.0782	.0569	.0424	.0380
.40	.2712	.2295	.2151	.2861	.2561	.2049	.1843	.1181	.0998
.60	.5645	.4733	.4278	.6226	.4815	.4064	.3283	.2410	.2223
.80	.6360	.5121	.4658	.8396	.5212	.4660	.3659	.2410	.2223
1.00	.8882	.5726	.4994	1.0310	.5212	.4660	.4036	.2706	.2300
1.20	.9443	.5726	.4994	1.0310	.6228	.4660	.4392	.2935	.2500
1.40	1.1200	.7245	.6195	1.0310	.6228	.5918	.4392	.2935	.2500
1.60	1.2240	.7245	.6195	1.3460	.8495	.7428	.5631	.3378	.2871
1.80	1.5120	.9467	.7918	1.3460	.8594	.7428	.6265	.3378	.2871
2.00	1.5120	.9467	.7918	1.3880	.8594	.7428	.7124	.4542	.2871
2.20	1.5120	.9467	.7918	1.3880	.8594	.7428	.7124	.4542	.3154
2.40	1.5120	.9467	.7918	2.2500	1.2780	1.0330	.9230	.5935	.4936
2.60	1.5120	.9467	.7918	2.2500	1.2780	1.0330	.9230	.5935	.4936
2.80	1.5030	.9429	.8308	2.2500	1.2780	1.0330	.9230	.5935	.4936
3.00	1.4940	.9429	.8308	2.2500	1.2780	1.0330	.9230	.5935	.4936
3.20	1.4940	.9429	.8308	2.2500	1.2780	1.0330	.9230	.5935	.4936
3.40	1.4940	.9429	.8308	2.2500	1.2780	1.0330	.9230	.5935	.4936
3.60	1.4940	.9429	.8308	2.2500	1.2780	1.0330	.9230	.5935	.4936
3.80	1.4940	.9429	.8308	2.2500	1.2780	1.0330	.9230	.5935	.4936
4.00	1.4940	.9429	.8308	1.6250	1.0870	.8922	.8631	.5567	.4778
4.20	1.4940	.9429	.8308	1.6250	1.0870	.8922	.8631	.5567	.4778
4.40	1.4940	.9429	.8308	1.6250	1.0870	.8922	.8631	.5567	.4778
4.60	.7010	.4482	.4323	1.4490	.9253	.8186	.8631	.5567	.4778
4.80	.5248	.3949	.3926	1.4490	.9253	.8186	.8631	.5567	.4778
5.00	.4018	.3732	.3689	1.3530	.9253	.8186	.8232	.5567	.4778
5.20	.4018	.3510	.3501	1.3530	.9253	.8186	.8232	.5567	.4778
5.40	.4018	.3356	.3356	1.3530	.9253	.8186	.8167	.5567	.4778
5.60	.4018	.3267	.3267	1.2150	.9253	.8186	.8167	.5567	.4778
5.80	.4018	.3234	.3218	1.2150	.9253	.8186	.6054	.5567	.4778
6.00	.4018	.3218	.3188	1.2060	.9253	.8186	.6054	.4307	.3893
6.20	.4018	.3211	.3156	1.2060	.9253	.8186	.6054	.4307	.3893
6.40	.5737	.3211	.3110	1.2060	.9253	.8186	.6054	.4307	.3408

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-17 - Продължение

Hz	L			T			V		
	28	58	78	28	58	78	28	58	78
6.60	.3737	.3211	.3103	1.2080	.9253	.8186	.6054	.4307	.3096
6.80	.3737	.3211	.3103	1.2080	.9253	.8186	.6054	.4307	.3096
7.00	.3737	.3211	.3103	1.2080	.9253	.8186	.6054	.4307	.3096
7.20	.3737	.3211	.3103	.9567	.6490	.5997	.6054	.4307	.3096
7.40	.3737	.3211	.3103	.9567	.6490	.5997	.6054	.3159	.2877
7.60	.3737	.3211	.3103	.9567	.6490	.5997	.6054	.3159	.2877
7.80	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
8.00	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
8.20	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
8.40	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
8.60	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
8.80	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
9.00	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
9.20	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
9.40	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
9.60	.3737	.3211	.3103	.9567	.6490	.5997	.4236	.3159	.2877
9.80	.3737	.3211	.3103	.8148	.6490	.5997	.4214	.3159	.2877
10.00	.3737	.3211	.3103	.8148	.6490	.5997	.4214	.3159	.2877
10.20	.3737	.3211	.3103	.8148	.6490	.5997	.4214	.3159	.2877
10.40	.3737	.3211	.3103	.8148	.6490	.5997	.3615	.2738	.2210
10.60	.3669	.3188	.3103	.8148	.6490	.5997	.3615	.2738	.2099
10.80	.3669	.3188	.3103	.8148	.6490	.4977	.3229	.2738	.1997
11.00	.3669	.3103	.3103	.8148	.5489	.4977	.3229	.2738	.1919
11.20	.3669	.3103	.3103	.8148	.5489	.4977	.3229	.2738	.1869
11.40	.3669	.3103	.3103	.8148	.5489	.4977	.3229	.2738	.1828
11.60	.3542	.3057	.2984	.7174	.5489	.4977	.3229	.2738	.1795
11.80	.3542	.3057	.2984	.7174	.5489	.4977	.3229	.2738	.1769
12.00	.3542	.3057	.2984	.7174	.5489	.4977	.3229	.1749	.1749
12.20	.3542	.3057	.2984	.7174	.5489	.4977	.3229	.1734	.1734
12.40	.3542	.3057	.2936	.7174	.5489	.4977	.2041	.1723	.1721
12.60	.3542	.3057	.2936	.7174	.5489	.4977	.2041	.1723	.1710
12.80	.3542	.2990	.2930	.7174	.5489	.4977	.2041	.1723	.1699
13.00	.3542	.2990	.2930	.7174	.5489	.4977	.2041	.1723	.1688
13.20	.3542	.2990	.2930	.7174	.5489	.4977	.2041	.1723	.1679
									.1673

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-17 – Продължение

Hz	L			T			V		
	28	58	78	28	58	78	28	58	78
13.40	.3542	.2990	.2930	.7174	.5489	.4977	.2041	.1723	.1667
13.60	.3542	.2990	.2922	.7174	.5489	.4943	.2041	.1723	.1658
13.80	.3542	.2990	.2903	.7055	.5474	.4943	.1822	.1723	.1647
14.00	.3542	.2990	.2890	.7055	.5135	.4744	.1822	.1723	.1636
14.20	.3542	.2990	.2873	.6700	.5135	.4744	.1822	.1723	.1627
14.40	.3169	.2990	.2855	.6700	.5135	.4744	.1822	.1723	.1621
14.60	.3169	.2990	.2838	.6700	.5135	.4744	.1822	.1723	.1615
14.80	.3169	.2990	.2823	.6700	.5135	.4744	.1822	.1723	.1608
15.00	.3169	.2990	.2808	.6700	.5135	.4744	.1822	.1723	.1600
15.20	.3169	.2990	.2795	.6700	.5135	.4744	.1822	.1657	.1589
15.40	.3169	.2990	.2783	.6700	.5135	.4744	.1822	.1657	.1577
15.60	.3169	.2990	.2774	.6700	.5135	.4744	.1822	.1657	.1563
15.80	.3169	.2990	.2767	.6700	.5135	.4744	.1822	.1657	.1552
16.00	.3169	.2990	.2761	.5866	.5135	.4744	.1822	.1657	.1545
16.20	.3169	.2990	.2756	.5866	.5135	.4167	.1822	.1657	.1540
16.40	.3169	.2990	.2751	.5866	.4779	.4167	.1822	.1657	.1535
16.60	.3169	.2990	.2747	.5866	.4779	.4167	.1822	.1657	.1534
16.80	.3154	.2743	.2743	.5866	.4779	.4167	.1822	.1657	.1534
17.00	.3154	.2739	.2739	.5866	.4779	.4167	.1822	.1657	.1534
17.20	.2918	.2735	.2735	.5866	.4779	.3668	.1822	.1657	.1534
17.40	.2918	.2732	.2732	.5866	.4042	.3661	.1822	.1657	.1534
17.60	.2918	.2729	.2729	.5866	.4042	.3655	.1822	.1657	.1534
17.80	.2918	.2727	.2727	.5866	.4042	.3649	.1822	.1657	.1534
18.00	.2918	.2724	.2724	.4804	.4042	.3644	.1768	.1536	.1534
18.20	.2918	.2722	.2722	.4804	.4042	.3640	.1768	.1536	.1534
18.40	.2804	.2720	.2720	.4804	.4042	.3637	.1768	.1536	.1534
18.60	.2804	.2719	.2719	.4804	.4042	.3635	.1768	.1536	.1534
18.80	.2804	.2718	.2718	.4804	.4042	.3635	.1557	.1536	.1534
19.00	.2804	.2717	.2717	.4804	.3834	.3635	.1557	.1536	.1534
19.20	.2804	.2716	.2716	.4804	.3834	.3635	.1557	.1536	.1534
19.40	.2804	.2716	.2716	.4804	.3680	.3635	.1557	.1536	.1534
19.60	.2804	.2716	.2716	.4804	.3651	.3635	.1557	.1536	.1534
19.80	.2804	.2716	.2716	.3760	.3651	.3635	.1557	.1536	.1534
20.00	.2804	.2716	.2716	.3760	.3651	.3635	.1557	.1536	.1534

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-17 - Продължение

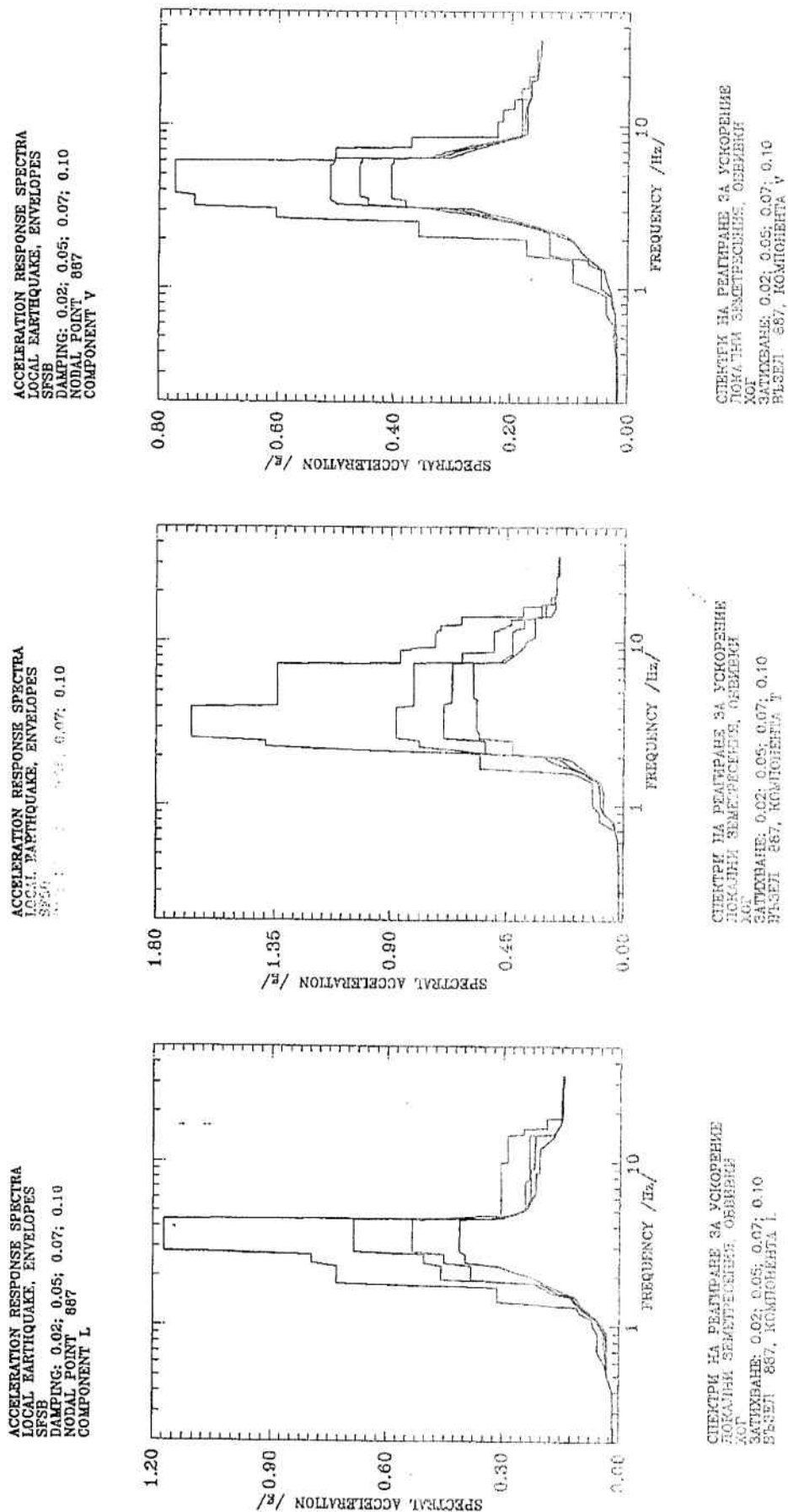
Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
20.20	.2747	.2716	.2713	.3760	.3651	.3635	.1557	.1536	.1534
20.40	.2747	.2716	.2712	.3760	.3651	.3635	.1557	.1536	.1534
20.60	.2747	.2716	.2712	.3760	.3651	.3633	.1557	.1536	.1534
20.80	.2747	.2716	.2712	.3760	.3651	.3632	.1557	.1536	.1534
21.00	.2744	.2715	.2711	.3760	.3651	.3630	.1557	.1536	.1534
21.20	.2734	.2713	.2710	.3760	.3651	.3628	.1557	.1536	.1534
21.40	.2731	.2709	.2708	.3760	.3651	.3628	.1557	.1536	.1534
21.60	.2724	.2707	.2707	.3760	.3651	.3628	.1557	.1536	.1534
21.80	.2724	.2707	.2706	.3760	.3651	.3628	.1557	.1536	.1534
22.00	.2724	.2707	.2705	.3760	.3651	.3628	.1557	.1536	.1534
22.20	.2724	.2707	.2705	.3760	.3651	.3628	.1557	.1536	.1534
22.40	.2724	.2707	.2705	.3760	.3651	.3627	.1557	.1536	.1534
22.60	.2724	.2707	.2705	.3760	.3651	.3625	.1557	.1536	.1534
22.80	.2724	.2707	.2705	.3760	.3646	.3621	.1557	.1536	.1534
23.00	.2724	.2707	.2705	.3760	.3638	.3616	.1557	.1536	.1534
23.20	.2724	.2707	.2705	.3760	.3635	.3609	.1557	.1536	.1534
23.40	.2724	.2707	.2705	.3760	.3629	.3606	.1557	.1536	.1534
23.60	.2724	.2707	.2705	.3760	.3622	.3602	.1557	.1536	.1534
23.80	.2724	.2707	.2705	.3760	.3614	.3596	.1557	.1536	.1534
24.00	.2724	.2707	.2705	.3760	.3606	.3591	.1557	.1536	.1534
24.20	.2724	.2707	.2705	.3760	.3597	.3585	.1557	.1536	.1534
24.40	.2724	.2707	.2705	.3760	.3589	.3579	.1557	.1536	.1534
24.60	.2724	.2707	.2705	.3760	.3582	.3573	.1557	.1536	.1534
24.80	.2724	.2707	.2705	.3760	.3579	.3567	.1557	.1536	.1534
25.00	.2724	.2707	.2705	.3760	.3579	.3564	.1557	.1536	.1534
25.20	.2724	.2707	.2704	.3760	.3579	.3559	.1557	.1536	.1534
25.40	.2724	.2707	.2704	.3760	.3579	.3555	.1557	.1536	.1534
25.60	.2724	.2707	.2704	.3760	.3579	.3549	.1557	.1536	.1534
25.80	.2724	.2706	.2704	.3760	.3579	.3545	.1557	.1536	.1534
26.00	.2724	.2706	.2704	.3760	.3579	.3545	.1557	.1536	.1534
26.20	.2724	.2706	.2704	.3760	.3579	.3545	.1557	.1536	.1534
26.40	.2724	.2706	.2703	.3760	.3579	.3545	.1557	.1536	.1534
26.60	.2724	.2706	.2703	.3760	.3579	.3545	.1557	.1536	.1534
26.80	.2724	.2705	.2702	.3760	.3579	.3545	.1557	.1536	.1534

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-17 - Продължение

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
27.00	.2724	.2704	.2701	.3760	.3579	.3545	.1545	.1534	.1532
27.20	.2724	.2703	.2700	.3760	.3579	.3545	.1545	.1534	.1532
27.40	.2724	.2701	.2699	.3760	.3579	.3545	.1545	.1534	.1532
27.60	.2724	.2699	.2698	.3760	.3579	.3545	.1545	.1534	.1532
27.80	.2724	.2697	.2697	.3760	.3579	.3545	.1545	.1534	.1532
28.00	.2724	.2696	.2696	.3760	.3579	.3545	.1545	.1534	.1532
28.20	.2724	.2696	.2696	.3579	.3579	.3545	.1545	.1534	.1532
28.40	.2724	.2695	.2695	.3579	.3579	.3545	.1545	.1534	.1532
28.60	.2724	.2694	.2694	.3579	.3579	.3545	.1545	.1534	.1532
28.80	.2724	.2694	.2694	.3579	.3579	.3545	.1545	.1534	.1532
29.00	.2724	.2693	.2693	.3579	.3579	.3545	.1545	.1534	.1532
29.20	.2724	.2693	.2693	.3579	.3579	.3545	.1545	.1534	.1532
29.40	.2724	.2692	.2692	.3579	.3579	.3545	.1545	.1534	.1532
29.60	.2724	.2692	.2692	.3579	.3579	.3545	.1545	.1534	.1532
29.80	.2724	.2692	.2692	.3579	.3579	.3545	.1545	.1534	.1532
30.00	.2724	.2692	.2692	.3579	.3579	.3545	.1545	.1534	.1532
30.20	.2724	.2692	.2692	.3579	.3579	.3545	.1545	.1534	.1532
30.40	.2724	.2691	.2691	.3579	.3579	.3545	.1545	.1534	.1532
30.60	.2724	.2691	.2691	.3579	.3579	.3545	.1545	.1534	.1532
30.80	.2724	.2691	.2691	.3579	.3579	.3545	.1545	.1534	.1532
31.00	.2724	.2690	.2690	.3579	.3579	.3545	.1545	.1534	.1532
31.20	.2724	.2690	.2690	.3545	.3545	.3545	.1545	.1534	.1532
31.40	.2724	.2690	.2690	.3545	.3545	.3545	.1545	.1534	.1532
31.60	.2724	.2690	.2690	.3545	.3545	.3545	.1545	.1534	.1532
31.80	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532
32.00	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532
32.20	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532
32.40	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532
32.60	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532
32.80	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532
33.00	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532
33.20	.2724	.2689	.2689	.3545	.3545	.3545	.1545	.1534	.1532

Спектри на реагиране за укрепената конструкция на ХОГ



Фиг.Д.42 Спектри на реагиране. Въздействие - локални земетр. Възел 887

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-36
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ
ВЪЗЕЛ 887

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.0167	.0155	.0149	.0141	.0184	.0172	.0165	.0157	.0189	.0174	.0166	.0155
.40	.0177	.0165	.0164	.0163	.0191	.0172	.0171	.0171	.0202	.0184	.0166	.0164
.60	.0397	.0356	.0338	.0313	.0223	.0219	.0219	.0219	.0246	.0215	.0199	.0193
.80	.0567	.0407	.0338	.0319	.0935	.0447	.0415	.0376	.0368	.0282	.0249	.0233
1.00	.0684	.0529	.0467	.0411	.1192	.0898	.0898	.0772	.0618	.0451	.0308	.0308
1.20	.1023	.0850	.0789	.0755	.1192	.0930	.0898	.0772	.0926	.0451	.0389	.0376
1.40	.3139	.1163	.1112	.1048	.1192	.0979	.0898	.0851	.0926	.0657	.0550	.0512
1.60	.3139	.1768	.1587	.1410	.2011	.1543	.1450	.1337	.1731	.1330	.0739	.0710
1.80	.7299	.2185	.2049	.1910	.5554	.2495	.2167	.1780	.1731	.1330	.0859	.0835
2.00	.7299	.4597	.3832	.2290	.5554	.3021	.2734	.2454	.1731	.1330	.0983	.0936
2.20	.7299	.4597	.3832	.2901	1.0200	.6437	.5321	.4266	.3573	.1330	.1238	.1167
2.40	.7955	.5044	.4526	.3983	1.3850	.7873	.5321	.4266	.3573	.1670	.1579	.1506
2.60	.7955	.5044	.4526	.3983	1.6660	.8776	.6956	.5595	.3573	.2139	.2008	.1856
2.80	1.1710	.6853	.5338	.4131	1.6660	.8776	.6956	.5595	.6029	.2543	.2369	.2214
3.00	1.1710	.6853	.5338	.4131	1.6660	.8776	.6956	.5661	.6029	.3101	.2778	.2540
3.20	1.1710	.6853	.5338	.4131	1.6660	.8776	.6956	.5661	.7405	.3796	.3796	.3796
3.40	1.1710	.6853	.5338	.4131	1.6660	.8776	.6956	.5661	.7405	.5001	.4447	.3796
3.60	1.1710	.6853	.5338	.4131	1.6660	.8776	.6956	.5677	.7405	.5097	.4447	.4053
3.80	1.1710	.6853	.5338	.4131	1.6660	.8776	.6956	.5677	.7729	.5097	.4590	.4053
4.00	1.1710	.6853	.5338	.4131	1.6660	.8776	.6956	.5677	.7729	.5097	.4590	.4053
4.20	1.1710	.6853	.5338	.4131	1.3400	.8118	.6956	.5677	.7729	.5097	.4590	.4053
4.40	1.1710	.6853	.5338	.4131	1.3400	.8118	.6629	.5810	.7729	.5097	.4590	.4053
4.60	.3839	.3122	.3024	.2895	1.3400	.8118	.6629	.5810	.7729	.5097	.4590	.4053
4.80	.3062	.2712	.2702	.2664	1.3400	.8118	.6629	.5810	.7729	.5097	.4590	.4053
5.00	.3062	.2486	.2486	.2486	1.3400	.8118	.6629	.5810	.7729	.5097	.4590	.4053
5.20	.3062	.2432	.2381	.2381	1.3400	.8118	.6629	.5810	.7729	.5097	.4590	.4053
5.40	.3062	.2432	.2353	.2330	1.3400	.8118	.6629	.5810	.7729	.5097	.4590	.4053
5.60	.3062	.2432	.2353	.2298	1.3400	.8118	.6629	.5810	.7729	.5047	.4590	.4053
5.80	.3062	.2432	.2333	.2275	1.3400	.8118	.6629	.5810	.7729	.5021	.4560	.4010
6.00	.3062	.2432	.2291	.2241	1.3400	.8118	.6629	.5810	.7729	.5021	.4560	.4010
6.20	.3062	.2432	.2289	.2200	1.3400	.8118	.6629	.5810	.5021	.5021	.4560	.4010
6.40	.3062	.2432	.2289	.2168	1.3400	.8118	.6629	.5810	.5001	.3408	.3246	.3032

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-36 - Продължение

Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
6.60	.3062	.2432	.2289	.2153	1.3400	.8118	.6629	.5810	.5001	.3275	.3121	.2920
6.80	.3062	.2432	.2289	.2152	1.3400	.8118	.6629	.5810	.5001	.3162	.3003	.2800
7.00	.3062	.2432	.2289	.2152	1.3400	.8118	.6629	.5810	.5001	.3064	.2908	.2715
7.20	.3062	.2432	.2289	.2152	1.3400	.8118	.6629	.5810	.5001	.2918	.2777	.2605
7.40	.3062	.2432	.2289	.2152	.8637	.8118	.6629	.5810	.3714	.2774	.2628	.2476
7.60	.3062	.2402	.2289	.2152	.8637	.6246	.4728	.4508	.3714	.2640	.2515	.2360
7.80	.3062	.2326	.2289	.2152	.8637	.6246	.4616	.4425	.3714	.2477	.2380	.2257
8.00	.3062	.2326	.2289	.2152	.8637	.6246	.4510	.4337	.3714	.2302	.2236	.2146
8.20	.3062	.2326	.2289	.2152	.8637	.6246	.4400	.4245	.3714	.2174	.2095	.2036
8.40	.3062	.2326	.2289	.2152	.8637	.6246	.4284	.4154	.3714	.2050	.1992	.1931
8.60	.3062	.2326	.2289	.2055	.8637	.5003	.4284	.4069	.2231	.1938	.1895	.1835
8.80	.3062	.2326	.2289	.2055	.8637	.5003	.4284	.3995	.2231	.1839	.1805	.1754
9.00	.3062	.2326	.2289	.2055	.8217	.5003	.4284	.3933	.2231	.1817	.1761	.1716
9.20	.3062	.2326	.2186	.2055	.7293	.5003	.4284	.3878	.2231	.1817	.1761	.1716
9.40	.3062	.2326	.2186	.2055	.7293	.5003	.4284	.3817	.2231	.1817	.1761	.1716
9.60	.3062	.2326	.2186	.2055	.7293	.5003	.4284	.3812	.2231	.1817	.1761	.1716
9.80	.3062	.2326	.2186	.2055	.7293	.5003	.4284	.3787	.2231	.1817	.1761	.1716
10.00	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3730	.2231	.1817	.1761	.1716
10.20	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3636	.2231	.1817	.1761	.1716
10.40	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3509	.2231	.1817	.1761	.1716
10.60	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3426	.2231	.1817	.1761	.1716
10.80	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3426	.2143	.1817	.1761	.1716
11.00	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3426	.2143	.1817	.1761	.1716
11.20	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3426	.2143	.1817	.1761	.1716
11.40	.2890	.2326	.2186	.2055	.7293	.5003	.4284	.3426	.2143	.1817	.1761	.1716
11.60	.2890	.2326	.2186	.2046	.7293	.5003	.4284	.3426	.2143	.1817	.1761	.1716
11.80	.2890	.2326	.2186	.2046	.7293	.5003	.4197	.3426	.2143	.1817	.1761	.1716
12.00	.2890	.2326	.2186	.2046	.7097	.4810	.4197	.3426	.2143	.1817	.1761	.1716
12.20	.2890	.2326	.2186	.2046	.7097	.4810	.3847	.3426	.2143	.1817	.1760	.1716
12.40	.2890	.2326	.2186	.2046	.7097	.4536	.3847	.3426	.2143	.1817	.1754	.1716
12.60	.2890	.2326	.2186	.1960	.7097	.4536	.3847	.3426	.2143	.1817	.1753	.1716
12.80	.2890	.2326	.2172	.1941	.6285	.4351	.3847	.3426	.2143	.1817	.1749	.1716
13.00	.2890	.2326	.2172	.1916	.6285	.4351	.3847	.3426	.1947	.1817	.1745	.1715
13.20	.2890	.2326	.2172	.1885	.6285	.4351	.3847	.3426	.1947	.1817	.1740	.1713
13.40	.2890	.2326	.2172	.1850	.6285	.4351	.3847	.3426	.1947	.1817	.1737	.1709

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-36 -- Продължение

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
13.40	.2890	.2326	.2172	.1813	.6285	.4351	.3847	.3426	.1947
13.60	.2890	.2326	.2172	.1778	.6285	.4351	.3847	.3426	.1947
13.80	.2890	.2326	.2172	.1746	.6285	.3407	.3407	.3407	.1947
14.00	.2890	.2326	.2172	.1718	.6285	.3407	.3407	.3407	.1947
14.20	.2890	.2326	.2172	.1697	.3896	.3162	.3007	.2830	.1947
14.40	.2890	.2326	.2172	.1680	.3896	.3162	.3007	.2801	.1947
14.60	.2466	.2010	.1680	.1666	.3896	.3162	.3007	.2780	.1828
14.80	.2466	.1697	.1674	.1654	.3896	.3162	.3007	.2758	.1828
15.00	.2466	.1692	.1665	.1641	.3896	.3162	.3007	.2734	.1828
15.20	.2466	.1674	.1653	.1633	.3896	.3162	.3007	.2709	.1828
15.40	.2466	.1650	.1635	.1618	.3896	.3162	.3007	.2685	.1828
15.60	.2466	.1627	.1617	.1604	.3896	.3162	.3007	.2663	.1828
15.80	.2466	.1605	.1599	.1590	.3896	.3162	.3007	.2646	.1828
16.00	.1870	.1588	.1581	.1576	.3896	.3162	.3007	.2634	.1828
16.20	.1870	.1570	.1564	.1562	.3896	.3162	.3007	.2628	.1828
16.40	.1870	.1552	.1550	.1550	.3162	.3162	.3007	.2628	.1828
16.60	.1870	.1538	.1538	.1538	.3162	.3162	.3007	.2628	.1828
16.80	.1870	.1527	.1527	.1527	.3007	.3007	.3007	.2628	.1828
17.00	.1870	.1518	.1518	.1518	.2836	.2713	.2713	.2628	.1704
17.20	.1870	.1510	.1510	.1510	.2836	.2663	.2647	.2628	.1704
17.40	.1870	.1503	.1503	.1503	.2836	.2663	.2643	.2628	.1704
17.60	.1870	.1497	.1497	.1497	.2836	.2663	.2643	.2628	.1704
17.80	.1870	.1493	.1493	.1493	.2836	.2663	.2643	.2628	.1704
18.00	.1870	.1489	.1489	.1489	.2836	.2663	.2643	.2628	.1704
18.20	.1870	.1485	.1485	.1485	.2836	.2658	.2640	.2623	.1704
18.40	.1507	.1482	.1482	.1482	.2836	.2652	.2636	.2620	.1704
18.60	.1507	.1480	.1480	.1480	.2666	.2645	.2631	.2616	.1704
18.80	.1507	.1478	.1478	.1478	.2653	.2637	.2626	.2612	.1704
19.00	.1507	.1478	.1475	.1475	.2644	.2630	.2620	.2607	.1704
19.20	.1507	.1476	.1473	.1473	.2638	.2623	.2614	.2602	.1704
19.40	.1507	.1472	.1470	.1470	.2632	.2616	.2607	.2597	.1704
19.60	.1507	.1469	.1468	.1468	.2628	.2609	.2601	.2591	.1704
19.80	.1507	.1469	.1465	.1465	.2624	.2605	.2597	.2586	.1555
20.00	.1507	.1469	.1464	.1463					.1548

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-36 – Продължение

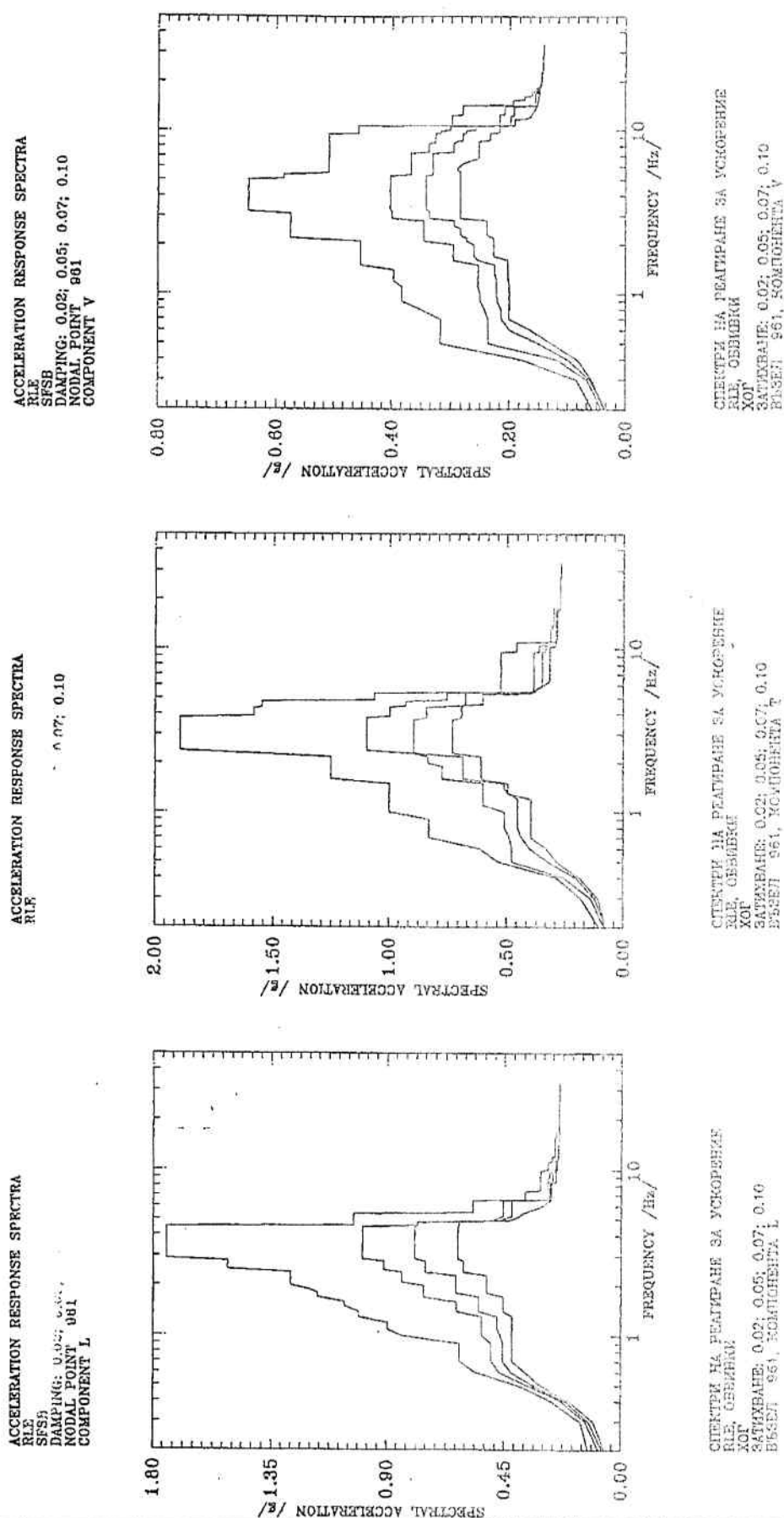
Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
20.20	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1546	.1546	.1546
20.40	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1544	.1544	.1544
20.60	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1542	.1542	.1542
20.80	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1540	.1540	.1540
21.00	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1539	.1539	.1539
21.20	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1538	.1538	.1538
21.40	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1537	.1537	.1537
21.60	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1536	.1536	.1536
21.80	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
22.00	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
22.20	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
22.40	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
22.60	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
22.80	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
23.00	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
23.20	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
23.40	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
23.60	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
23.80	.1507	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1535	.1535	.1535
24.00	.1494	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1530	.1525	.1521
24.20	.1494	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1527	.1522	.1519
24.40	.1494	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1524	.1520	.1517
24.60	.1494	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1521	.1517	.1515
24.80	.1494	.1469	.1464	.1460	.2624	.2605	.2597	.2588	.1555	.1518	.1513	.1513
25.00	.1494	.1469	.1464	.1460	.2546	.2510	.2504	.2503	.1555	.1515	.1511	.1511
25.20	.1494	.1469	.1464	.1460	.2546	.2510	.2504	.2501	.1555	.1511	.1509	.1509
25.40	.1494	.1469	.1464	.1460	.2546	.2510	.2504	.2500	.1555	.1507	.1507	.1507
25.60	.1494	.1469	.1464	.1460	.2546	.2509	.2504	.2499	.1555	.1505	.1505	.1505
25.80	.1494	.1469	.1464	.1460	.2546	.2508	.2504	.2497	.1555	.1504	.1504	.1504
26.00	.1494	.1469	.1464	.1460	.2546	.2508	.2504	.2496	.1555	.1503	.1503	.1503
26.20	.1494	.1469	.1463	.1459	.2546	.2508	.2504	.2494	.1555	.1502	.1502	.1502
26.40	.1494	.1469	.1463	.1459	.2546	.2508	.2504	.2492	.1555	.1501	.1501	.1501
26.60	.1494	.1466	.1462	.1458	.2546	.2508	.2504	.2489	.1555	.1500	.1500	.1500
26.80	.1494	.1464	.1461	.1458	.2546	.2508	.2504	.2487	.1555	.1500	.1500	.1500

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-36 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.00	.1494	.1462	.1460	.1457	.2546	.2508	.2504	.2485	.1555	.1500	.1500	.1500
27.20	.1494	.1460	.1459	.1456	.2546	.2508	.2504	.2483	.1555	.1499	.1499	.1499
27.40	.1494	.1459	.1458	.1455	.2546	.2508	.2504	.2480	.1555	.1499	.1499	.1499
27.60	.1494	.1459	.1457	.1455	.2546	.2508	.2504	.2478	.1555	.1499	.1499	.1499
27.80	.1494	.1459	.1456	.1454	.2546	.2508	.2504	.2478	.1555	.1499	.1499	.1499
28.00	.1494	.1459	.1455	.1453	.2546	.2508	.2504	.2478	.1555	.1499	.1499	.1499
28.20	.1494	.1459	.1454	.1452	.2546	.2508	.2504	.2478	.1555	.1499	.1499	.1499
28.40	.1492	.1457	.1453	.1451	.2546	.2508	.2504	.2478	.1555	.1498	.1498	.1498
28.60	.1486	.1455	.1451	.1449	.2546	.2508	.2504	.2478	.1555	.1498	.1498	.1498
28.80	.1476	.1453	.1450	.1448	.2546	.2508	.2504	.2478	.1555	.1498	.1498	.1498
29.00	.1473	.1450	.1448	.1447	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
29.20	.1473	.1448	.1446	.1446	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
29.40	.1473	.1446	.1444	.1444	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
29.60	.1473	.1444	.1443	.1443	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
29.80	.1471	.1442	.1442	.1442	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
30.00	.1471	.1442	.1441	.1441	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
30.20	.1471	.1442	.1439	.1439	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
30.40	.1471	.1442	.1438	.1438	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
30.60	.1471	.1442	.1436	.1436	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
30.80	.1471	.1442	.1435	.1435	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
31.00	.1471	.1442	.1434	.1434	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
31.20	.1471	.1442	.1433	.1433	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
31.40	.1471	.1442	.1433	.1433	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
31.60	.1471	.1442	.1432	.1432	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
31.80	.1471	.1442	.1431	.1431	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
32.00	.1471	.1442	.1431	.1430	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
32.20	.1471	.1442	.1431	.1430	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
32.40	.1471	.1442	.1431	.1429	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
32.60	.1471	.1442	.1431	.1428	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
32.80	.1471	.1442	.1431	.1427	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
33.00	.1471	.1442	.1431	.1427	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497
33.20	.1471	.1442	.1431	.1426	.2546	.2508	.2504	.2478	.1555	.1497	.1497	.1497

Спектри на реагиране за укрепената конструкция на ХОГ



Фиг.Д.24 Спектри на реагиране. Въздействие -RLE. Възел 961

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-18 - Продължение

Hz	L			T			V					
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.3731	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3677	.3310	.2635
6.80	.3731	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3677	.3310	.2532
7.00	.3731	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3677	.3310	.2524
7.20	.3731	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3677	.3310	.2524
7.40	.3731	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3369	.2955	.2524
7.60	.3156	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3369	.2955	.2524
7.80	.3156	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3369	.2955	.2524
8.00	.3156	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3369	.2955	.2524
8.20	.3156	.2843	.2773	.2708	.5275	.3872	.3510	.3180	.5091	.3369	.2955	.2524
8.40	.3156	.2843	.2773	.2527	.5275	.3872	.3510	.3180	.5091	.3369	.2955	.2524
8.60	.3156	.2824	.2640	.2527	.5275	.3872	.3510	.3180	.5091	.3266	.2911	.2524
8.80	.3156	.2824	.2640	.2527	.5275	.3872	.3510	.3180	.5091	.3266	.2796	.2337
9.00	.3156	.2773	.2640	.2527	.5275	.3872	.3510	.3180	.5091	.3266	.2796	.2337
9.20	.3151	.2773	.2640	.2527	.5275	.3872	.3510	.3180	.5091	.3266	.2796	.2337
9.40	.3135	.2773	.2640	.2527	.5275	.3872	.3510	.3180	.5091	.3266	.2796	.2337
9.60	.3135	.2773	.2640	.2527	.4607	.3644	.3373	.3180	.4587	.3266	.2796	.2337
9.80	.3125	.2635	.2635	.2527	.4607	.3644	.3373	.3180	.4587	.3166	.2745	.2176
10.00	.2823	.2567	.2527	.2527	.4607	.3644	.3373	.3180	.4587	.3166	.2745	.2176
10.20	.2823	.2567	.2508	.2463	.4607	.3644	.3373	.3180	.4587	.3018	.2583	.2176
10.40	.2823	.2567	.2508	.2463	.4607	.3644	.3373	.2923	.4587	.3018	.2583	.2176
10.60	.2823	.2567	.2508	.2463	.4607	.3404	.2932	.2918	.4587	.3018	.2583	.2176
10.80	.2823	.2567	.2508	.2463	.4607	.3404	.2932	.2909	.2988	.2171	.1985	.1916
11.00	.2823	.2567	.2508	.2463	.3404	.3404	.2914	.2898	.2988	.2171	.1985	.1916
11.20	.2687	.2567	.2508	.2463	.3137	.2909	.2889	.2884	.2988	.2171	.1985	.1916
11.40	.2687	.2567	.2508	.2463	.3137	.2909	.2872	.2872	.2988	.2171	.1985	.1916
11.60	.2687	.2475	.2463	.2463	.3137	.2909	.2872	.2861	.2988	.2171	.1985	.1916
11.80	.2687	.2475	.2453	.2443	.3137	.2909	.2872	.2854	.2988	.2171	.1985	.1732
12.00	.2687	.2475	.2453	.2435	.3137	.2909	.2872	.2849	.2988	.2171	.1985	.1684
12.20	.2573	.2475	.2453	.2435	.3137	.2909	.2872	.2845	.2988	.2171	.1985	.1643
12.40	.2573	.2475	.2453	.2435	.3137	.2909	.2872	.2844	.2988	.2171	.1930	.1637
12.60	.2573	.2475	.2453	.2435	.3137	.2909	.2872	.2844	.2805	.2081	.1930	.1628
12.80	.2573	.2475	.2453	.2435	.3137	.2909	.2872	.2844	.2805	.2081	.1930	.1617
13.00	.2573	.2472	.2452	.2435	.3137	.2909	.2872	.2844	.2805	.2081	.1930	.1604
13.20	.2573	.2461	.2448	.2433	.3093	.2909	.2872	.2844	.2805	.2081	.1930	.1591

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-18 – Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.2573	.2454	.2444	.2430	.3089	.2909	.2872	.2844	.2805	.2081	.1930	.1578
13.60	.2573	.2451	.2442	.2429	.3089	.2909	.2872	.2844	.2805	.2081	.1930	.1565
13.80	.2573	.2451	.2440	.2427	.3037	.2909	.2872	.2844	.2805	.2081	.1930	.1553
14.00	.2573	.2451	.2437	.2424	.3037	.2909	.2872	.2844	.2805	.2081	.1930	.1544
14.20	.2573	.2444	.2432	.2421	.3037	.2909	.2872	.2844	.2805	.1574	.1541	.1537
14.40	.2573	.2434	.2425	.2417	.3037	.2909	.2872	.2844	.1943	.1574	.1532	.1532
14.60	.2573	.2426	.2419	.2413	.3037	.2909	.2872	.2844	.1943	.1574	.1529	.1529
14.80	.2573	.2421	.2415	.2408	.3037	.2909	.2872	.2844	.1943	.1574	.1526	.1526
15.00	.2573	.2418	.2411	.2403	.3037	.2909	.2872	.2844	.1943	.1574	.1524	.1524
15.20	.2573	.2413	.2406	.2401	.3037	.2909	.2872	.2844	.1943	.1574	.1522	.1519
15.40	.2573	.2408	.2400	.2397	.3037	.2909	.2872	.2844	.1754	.1574	.1521	.1517
15.60	.2573	.2400	.2394	.2393	.3037	.2909	.2872	.2844	.1754	.1574	.1519	.1514
15.80	.2524	.2394	.2390	.2389	.3037	.2909	.2872	.2844	.1754	.1574	.1517	.1511
16.00	.2524	.2394	.2390	.2386	.3037	.2909	.2872	.2844	.1754	.1574	.1514	.1508
16.20	.2524	.2394	.2390	.2386	.3037	.2909	.2872	.2844	.1754	.1574	.1511	.1505
16.40	.2524	.2394	.2390	.2386	.3037	.2909	.2872	.2844	.1632	.1574	.1507	.1503
16.60	.2524	.2394	.2390	.2386	.3037	.2909	.2872	.2844	.1632	.1574	.1504	.1501
16.80	.2524	.2394	.2390	.2386	.3037	.2909	.2872	.2844	.1632	.1574	.1501	.1498
17.00	.2524	.2394	.2390	.2386	.3037	.2909	.2872	.2844	.1632	.1526	.1499	.1496
17.20	.2524	.2394	.2390	.2386	.3037	.2909	.2872	.2731	.1632	.1526	.1497	.1494
17.40	.2417	.2394	.2390	.2386	.3037	.2909	.2872	.2729	.1548	.1526	.1495	.1491
17.60	.2417	.2394	.2390	.2386	.3037	.2909	.2872	.2727	.1548	.1526	.1493	.1489
17.80	.2417	.2394	.2390	.2386	.2727	.2726	.2726	.2726	.1548	.1526	.1490	.1487
18.00	.2417	.2394	.2390	.2386	.2727	.2724	.2724	.2724	.1548	.1526	.1487	.1484
18.20	.2417	.2394	.2390	.2386	.2727	.2723	.2723	.2723	.1526	.1526	.1484	.1482
18.40	.2417	.2394	.2390	.2386	.2727	.2722	.2722	.2722	.1526	.1526	.1482	.1480
18.60	.2417	.2394	.2390	.2386	.2727	.2721	.2721	.2721	.1526	.1526	.1479	.1478
18.80	.2417	.2394	.2390	.2386	.2727	.2719	.2719	.2719	.1477	.1477	.1477	.1476
19.00	.2417	.2394	.2390	.2386	.2727	.2718	.2718	.2718	.1476	.1476	.1475	.1474
19.20	.2417	.2394	.2390	.2386	.2727	.2718	.2717	.2717	.1476	.1474	.1473	.1472
19.40	.2417	.2394	.2390	.2386	.2727	.2718	.2717	.2717	.1476	.1473	.1472	.1470
19.60	.2417	.2394	.2390	.2386	.2727	.2718	.2716	.2716	.1476	.1472	.1470	.1468
19.80	.2417	.2393	.2389	.2386	.2727	.2716	.2716	.2715	.1476	.1470	.1469	.1467
20.00	.2417	.2392	.2389	.2385	.2727	.2716	.2716	.2714	.1476	.1469	.1467	.1465

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-18 - Продължение

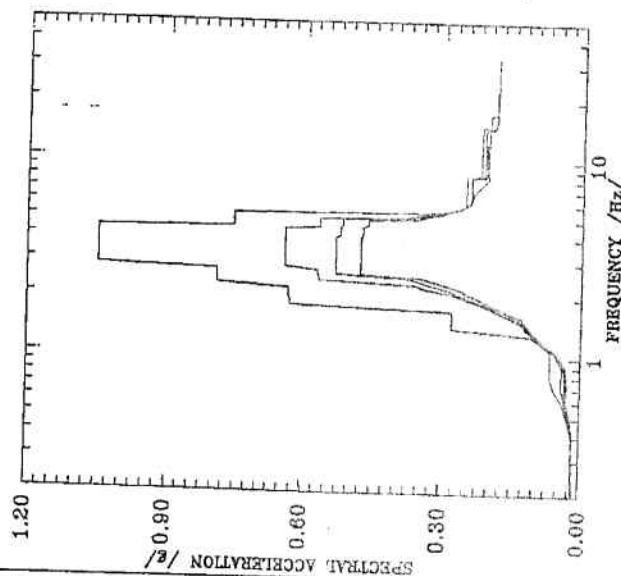
Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
20.20	.2417	.2392	.2388	.2385	.2727	.2718	.2716	.2714	.1474	.1468	.1466	.1464
20.40	.2417	.2391	.2388	.2385	.2727	.2718	.2716	.2714	.1474	.1466	.1465	.1462
20.60	.2417	.2389	.2387	.2385	.2727	.2718	.2716	.2714	.1474	.1464	.1463	.1460
20.80	.2417	.2389	.2386	.2384	.2727	.2718	.2716	.2714	.1474	.1463	.1462	.1459
21.00	.2417	.2389	.2385	.2384	.2727	.2718	.2716	.2714	.1474	.1462	.1460	.1457
21.20	.2417	.2389	.2385	.2383	.2727	.2718	.2716	.2714	.1474	.1462	.1459	.1456
21.40	.2417	.2389	.2385	.2383	.2727	.2718	.2716	.2714	.1474	.1462	.1458	.1454
21.60	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1474	.1461	.1457	.1452
21.80	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1473	.1460	.1455	.1451
22.00	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1472	.1458	.1453	.1449
22.20	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1471	.1456	.1451	.1447
22.40	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1468	.1453	.1449	.1445
22.60	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1465	.1449	.1446	.1443
22.80	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1455	.1445	.1444	.1442
23.00	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1444	.1441	.1441	.1440
23.20	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1444	.1439	.1439	.1438
23.40	.2417	.2389	.2385	.2382	.2727	.2718	.2716	.2714	.1444	.1437	.1437	.1437
23.60	.2417	.2389	.2385	.2381	.2727	.2718	.2716	.2714	.1444	.1436	.1436	.1435
23.80	.2417	.2389	.2384	.2381	.2727	.2718	.2716	.2714	.1444	.1434	.1434	.1434
24.00	.2417	.2387	.2384	.2381	.2727	.2718	.2716	.2714	.1444	.1433	.1433	.1432
24.20	.2417	.2387	.2383	.2380	.2724	.2717	.2715	.2714	.1444	.1433	.1432	.1431
24.40	.2417	.2385	.2383	.2380	.2721	.2716	.2715	.2713	.1444	.1433	.1432	.1431
24.60	.2417	.2384	.2382	.2380	.2721	.2715	.2714	.2713	.1444	.1433	.1432	.1431
24.80	.2417	.2383	.2382	.2380	.2721	.2714	.2714	.2713	.1444	.1433	.1432	.1431
25.00	.2417	.2383	.2381	.2379	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
25.20	.2417	.2382	.2381	.2379	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
25.40	.2417	.2382	.2380	.2379	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
25.60	.2417	.2382	.2380	.2378	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
25.80	.2417	.2381	.2379	.2378	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
26.00	.2417	.2381	.2378	.2377	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
26.20	.2417	.2380	.2377	.2376	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
26.40	.2417	.2379	.2377	.2376	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
26.60	.2417	.2377	.2376	.2375	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431
26.80	.2417	.2375	.2375	.2375	.2721	.2714	.2713	.2712	.1444	.1433	.1432	.1431

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-18 - Продължение

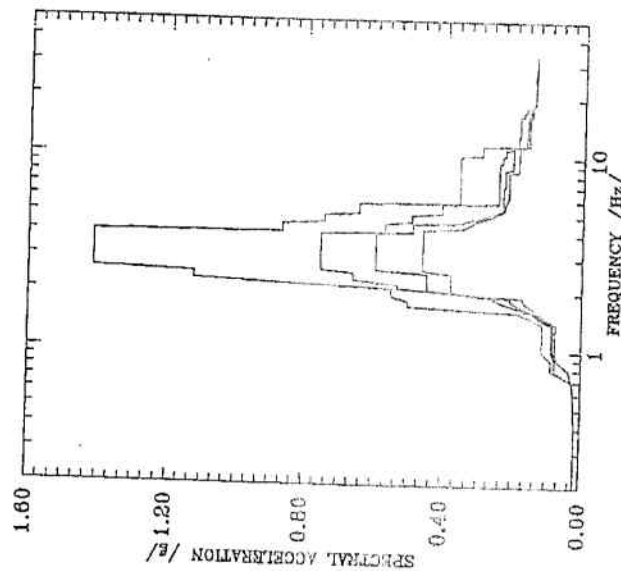
Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
27.00	.2417	.2374	.2374	.2374	.2721	.2713	.2711	.2710	.1444	.1433	.1428	.1426
27.20	.2417	.2374	.2374	.2374	.2719	.2712	.2710	.2709	.1444	.1433	.1428	.1426
27.40	.2417	.2374	.2374	.2374	.2715	.2711	.2710	.2708	.1444	.1433	.1428	.1425
27.60	.2417	.2373	.2373	.2373	.2711	.2710	.2709	.2708	.1444	.1433	.1428	.1425
27.80	.2417	.2373	.2373	.2373	.2708	.2708	.2708	.2707	.1443	.1433	.1428	.1424
28.00	.2417	.2373	.2373	.2373	.2707	.2707	.2707	.2707	.1442	.1433	.1427	.1424
28.20	.2417	.2373	.2373	.2372	.2706	.2706	.2706	.2706	.1440	.1433	.1427	.1424
28.40	.2417	.2373	.2372	.2372	.2706	.2706	.2706	.2706	.1438	.1433	.1426	.1423
28.60	.2417	.2373	.2372	.2372	.2705	.2705	.2705	.2705	.1438	.1433	.1426	.1423
28.80	.2417	.2373	.2372	.2372	.2704	.2704	.2704	.2704	.1438	.1433	.1425	.1422
29.00	.2417	.2373	.2372	.2372	.2704	.2704	.2704	.2704	.1438	.1433	.1424	.1422
29.20	.2417	.2373	.2372	.2371	.2703	.2703	.2703	.2703	.1438	.1433	.1424	.1421
29.40	.2401	.2373	.2371	.2371	.2703	.2703	.2703	.2703	.1438	.1433	.1423	.1421
29.60	.2401	.2372	.2371	.2371	.2702	.2702	.2702	.2702	.1438	.1433	.1423	.1420
29.80	.2401	.2372	.2371	.2370	.2702	.2702	.2702	.2702	.1438	.1433	.1422	.1420
30.00	.2401	.2372	.2371	.2370	.2701	.2701	.2701	.2701	.1438	.1433	.1422	.1420
30.20	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1438	.1433	.1421	.1420
30.40	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1438	.1433	.1421	.1420
30.60	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1438	.1433	.1420	.1420
30.80	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1438	.1433	.1420	.1420
31.00	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1438	.1433	.1420	.1420
31.20	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1421	.1420	.1420
31.40	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1420	.1420	.1420
31.60	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1420	.1420	.1420
31.80	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1420	.1420	.1420
32.00	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1420	.1420	.1420
32.20	.2401	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1420	.1420	.1420
32.40	.2380	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1420	.1420	.1420
32.60	.2380	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1425	.1420	.1420	.1420
32.80	.2380	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1424	.1420	.1420	.1420
33.00	.2380	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1423	.1420	.1420	.1420
33.20	.2380	.2372	.2371	.2370	.2700	.2700	.2700	.2700	.1421	.1420	.1420	.1420

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 961
COMPONENT L



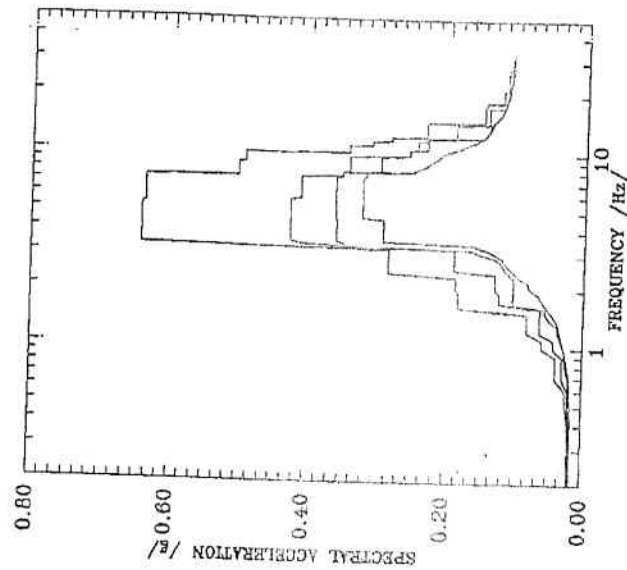
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 961, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 961
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 961, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 961
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ, ОБВИВКИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 961, КОМПОНЕНТА V

Фиг.Д.43 Спектри на реагиране. Въздействие - локални земетр. Възел 961

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-37
БЪЛЖНИ СПЕКТРИ НА РЕАГИРАНЕ - ЛОКАЛНИ ЗЕМЕТРЕСЕНИЯ
ВЪЗЕЛ 961

Hz	L			T			V		
	2%	5%	7%	2%	5%	7%	2%	5%	7%
.20	.0168	.0157	.0151	.0184	.0171	.0163	.0188	.0173	.0165
.40	.0175	.0170	.0170	.0184	.0171	.0163	.0198	.0179	.0170
.60	.0386	.0344	.0343	.0211	.0202	.0199	.0240	.0211	.0196
.80	.0663	.0405	.0343	.0900	.0796	.0384	.0390	.0300	.0243
1.00	.0663	.0499	.0439	.1145	.0900	.0835	.0599	.0433	.0276
1.20	.0868	.0809	.0783	.1145	.0900	.0835	.0820	.0636	.0368
1.40	.2798	.1196	.1141	.1145	.0900	.0835	.0820	.0636	.0488
1.60	.2798	.1531	.1377	.1853	.1423	.1315	.1828	.0636	.0567
1.80	.6304	.2039	.1935	.5019	.2331	.2028	.1828	.1227	.1028
2.00	.6344	.2572	.2426	.5493	.3812	.3812	.1875	.1295	.1028
2.20	.6344	.3385	.2921	.8212	.5316	.4491	.1875	.1295	.1028
2.40	.7909	.5668	.3533	1.1240	.6615	.4491	.2827	.1295	.1091
2.60	.7909	.5701	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
2.80	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
3.00	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
3.20	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
3.40	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
3.60	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
3.80	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
4.00	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
4.20	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
4.40	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
4.60	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
4.80	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
5.00	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
5.20	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
5.40	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
5.60	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
5.80	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
6.00	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
6.20	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173
6.40	1.0480	.6426	.5295	1.4130	.7550	.5963	.2827	.1295	.1173

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-37 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.2526	.2429	.2395	.2377	.3599	.2456	.2334	.2176	.6375	.4099	.3600	.3210
6.80	.2526	.2429	.2395	.2355	.3599	.2456	.2334	.2176	.6375	.4099	.3600	.3210
7.00	.2526	.2429	.2395	.2323	.3599	.2456	.2334	.2176	.6375	.4099	.3600	.3210
7.20	.2526	.2429	.2395	.2281	.3599	.2456	.2286	.2176	.6375	.4099	.3600	.3210
7.40	.2526	.2429	.2395	.2239	.3599	.2456	.2286	.2176	.6375	.4099	.3600	.3210
7.60	.2526	.2429	.2395	.2190	.3599	.2456	.2286	.2176	.5016	.3516	.3516	.3170
7.80	.2526	.2429	.2395	.2138	.3599	.2456	.2286	.2176	.5016	.3516	.3516	.3170
8.00	.2526	.2429	.2395	.2091	.3599	.2456	.2286	.2176	.5016	.3414	.2962	.2510
8.20	.2526	.2429	.2395	.2060	.3599	.2456	.2286	.2176	.5016	.3414	.2962	.2447
8.40	.2526	.2429	.2094	.2060	.3599	.2456	.2286	.2176	.5016	.3414	.2962	.2386
8.60	.2222	.2131	.2094	.2060	.3599	.2456	.2286	.1899	.5016	.3414	.2962	.2333
8.80	.2222	.2131	.2094	.2060	.3599	.2456	.2063	.1899	.5016	.3414	.2962	.2288
9.00	.2222	.2131	.2094	.2060	.3599	.2456	.2063	.1899	.4924	.3414	.2962	.2251
9.20	.2222	.2131	.2094	.2060	.3599	.2456	.2063	.1899	.4924	.3414	.2962	.2213
9.40	.2222	.2131	.2094	.2060	.3599	.2365	.2063	.1899	.4924	.3414	.2962	.2167
9.60	.2222	.2131	.2094	.2060	.3599	.2365	.2063	.1899	.4924	.3414	.2962	.2139
9.80	.2222	.2131	.2094	.2060	.3599	.2365	.2063	.1899	.4924	.2555	.2555	.2119
10.00	.2222	.2131	.2094	.2060	.3535	.2365	.2063	.1899	.4924	.2555	.2555	.2081
10.20	.2222	.2131	.2094	.2060	.2966	.2267	.2063	.1899	.3428	.2555	.2555	.2026
10.40	.2222	.2131	.2094	.2060	.2966	.2267	.2063	.1899	.3428	.2555	.2555	.1961
10.60	.2222	.2131	.2094	.2060	.2966	.2267	.2063	.1899	.3428	.2452	.2297	.1890
10.80	.2222	.2131	.2094	.2060	.2966	.2267	.2063	.1899	.3428	.2452	.2297	.1819
11.00	.2222	.2131	.2094	.2060	.2966	.2267	.2063	.1899	.3090	.2452	.2297	.1768
11.20	.2222	.2131	.2094	.2060	.2966	.2063	.2063	.1899	.3090	.2452	.2297	.1719
11.40	.2222	.2131	.2094	.2060	.2966	.1899	.1899	.1899	.3090	.2452	.2297	.1671
11.60	.2222	.2131	.2094	.2060	.1904	.1692	.1623	.1581	.2824	.2452	.2297	.1624
11.80	.2222	.2131	.2094	.2060	.1904	.1692	.1623	.1581	.2824	.2297	.2297	.1579
12.00	.2222	.2131	.2092	.2060	.1904	.1692	.1623	.1581	.2824	.2297	.2297	.1534
12.20	.2222	.2131	.2085	.2060	.1904	.1692	.1623	.1581	.2324	.1894	.1517	.1491
12.40	.2222	.2131	.2073	.2060	.1904	.1692	.1623	.1581	.2324	.1894	.1496	.1464
12.60	.2222	.2131	.2060	.2060	.1904	.1692	.1623	.1581	.2324	.1894	.1478	.1451
12.80	.2222	.2131	.2060	.2060	.1904	.1692	.1623	.1581	.2324	.1894	.1459	.1437
13.00	.2222	.2131	.2060	.2060	.1904	.1692	.1623	.1581	.2324	.1894	.1442	.1424
13.20	.2222	.2131	.2060	.2060	.1867	.1677	.1623	.1581	.2324	.1894	.1428	.1413

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-37 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.2222	.2131	.2060	.2060	.1867	.1677	.1623	.1581	.2324	.1894	.1418	.1402
13.60	.2222	.2131	.2060	.2060	.1867	.1677	.1623	.1581	.2324	.1894	.1411	.1392
13.80	.2222	.2131	.2060	.2060	.1867	.1677	.1623	.1581	.2324	.1894	.1406	.1383
14.00	.2202	.2131	.2060	.2060	.1867	.1677	.1623	.1581	.2324	.1894	.1401	.1374
14.20	.2202	.2126	.2060	.2060	.1867	.1677	.1623	.1581	.2324	.1894	.1393	.1364
14.40	.2202	.2126	.2060	.2060	.1867	.1677	.1623	.1581	.2305	.1424	.1383	.1353
14.60	.2202	.2126	.2060	.2060	.1867	.1677	.1623	.1581	.1493	.1424	.1368	.1341
14.80	.2202	.1941	.1938	.1935	.1867	.1677	.1623	.1581	.1493	.1424	.1351	.1327
15.00	.2202	.1926	.1926	.1926	.1867	.1677	.1623	.1581	.1493	.1424	.1331	.1313
15.20	.2032	.1920	.1920	.1920	.1867	.1677	.1623	.1581	.1493	.1424	.1321	.1306
15.40	.2032	.1914	.1914	.1914	.1867	.1677	.1623	.1581	.1493	.1424	.1302	.1293
15.60	.2032	.1910	.1910	.1910	.1867	.1677	.1623	.1581	.1493	.1424	.1284	.1280
15.80	.2032	.1906	.1906	.1906	.1867	.1677	.1623	.1581	.1493	.1424	.1268	.1268
16.00	.2032	.1903	.1903	.1903	.1867	.1677	.1623	.1581	.1493	.1424	.1257	.1257
16.20	.2032	.1901	.1901	.1901	.1867	.1677	.1623	.1581	.1493	.1424	.1247	.1247
16.40	.2032	.1900	.1900	.1900	.1779	.1677	.1623	.1520	.1493	.1424	.1238	.1238
16.60	.2032	.1898	.1898	.1898	.1779	.1677	.1623	.1520	.1493	.1424	.1230	.1230
16.80	.2032	.1897	.1897	.1897	.1779	.1582	.1541	.1520	.1493	.1424	.1223	.1223
17.00	.2032	.1897	.1897	.1897	.1779	.1582	.1541	.1520	.1493	.1424	.1217	.1217
17.20	.2032	.1896	.1896	.1896	.1779	.1582	.1541	.1520	.1493	.1424	.1211	.1211
17.40	.1897	.1895	.1895	.1895	.1692	.1582	.1541	.1520	.1493	.1206	.1206	.1206
17.60	.1895	.1894	.1894	.1894	.1692	.1582	.1541	.1520	.1493	.1201	.1201	.1201
17.80	.1894	.1893	.1893	.1893	.1692	.1582	.1541	.1520	.1460	.1197	.1197	.1196
18.00	.1893	.1892	.1892	.1892	.1692	.1541	.1541	.1520	.1460	.1195	.1193	.1192
18.20	.1893	.1891	.1891	.1891	.1541	.1541	.1541	.1520	.1460	.1192	.1189	.1188
18.40	.1892	.1891	.1891	.1891	.1541	.1541	.1541	.1520	.1460	.1188	.1185	.1183
18.60	.1892	.1890	.1890	.1890	.1541	.1541	.1541	.1520	.1217	.1184	.1181	.1179
18.80	.1892	.1889	.1889	.1889	.1471	.1461	.1460	.1459	.1217	.1179	.1177	.1175
19.00	.1892	.1888	.1888	.1888	.1471	.1460	.1459	.1458	.1217	.1174	.1172	.1171
19.20	.1892	.1887	.1887	.1887	.1471	.1459	.1459	.1458	.1217	.1169	.1167	.1167
19.40	.1892	.1886	.1886	.1886	.1471	.1458	.1458	.1457	.1217	.1163	.1163	.1163
19.60	.1892	.1885	.1885	.1885	.1471	.1458	.1457	.1456	.1217	.1159	.1159	.1159
19.80	.1892	.1884	.1884	.1884	.1471	.1457	.1456	.1455	.1217	.1155	.1155	.1155
20.00	.1892	.1883	.1883	.1883	.1471	.1457	.1456	.1455	.1217	.1151	.1151	.1151

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-37 - Продължение

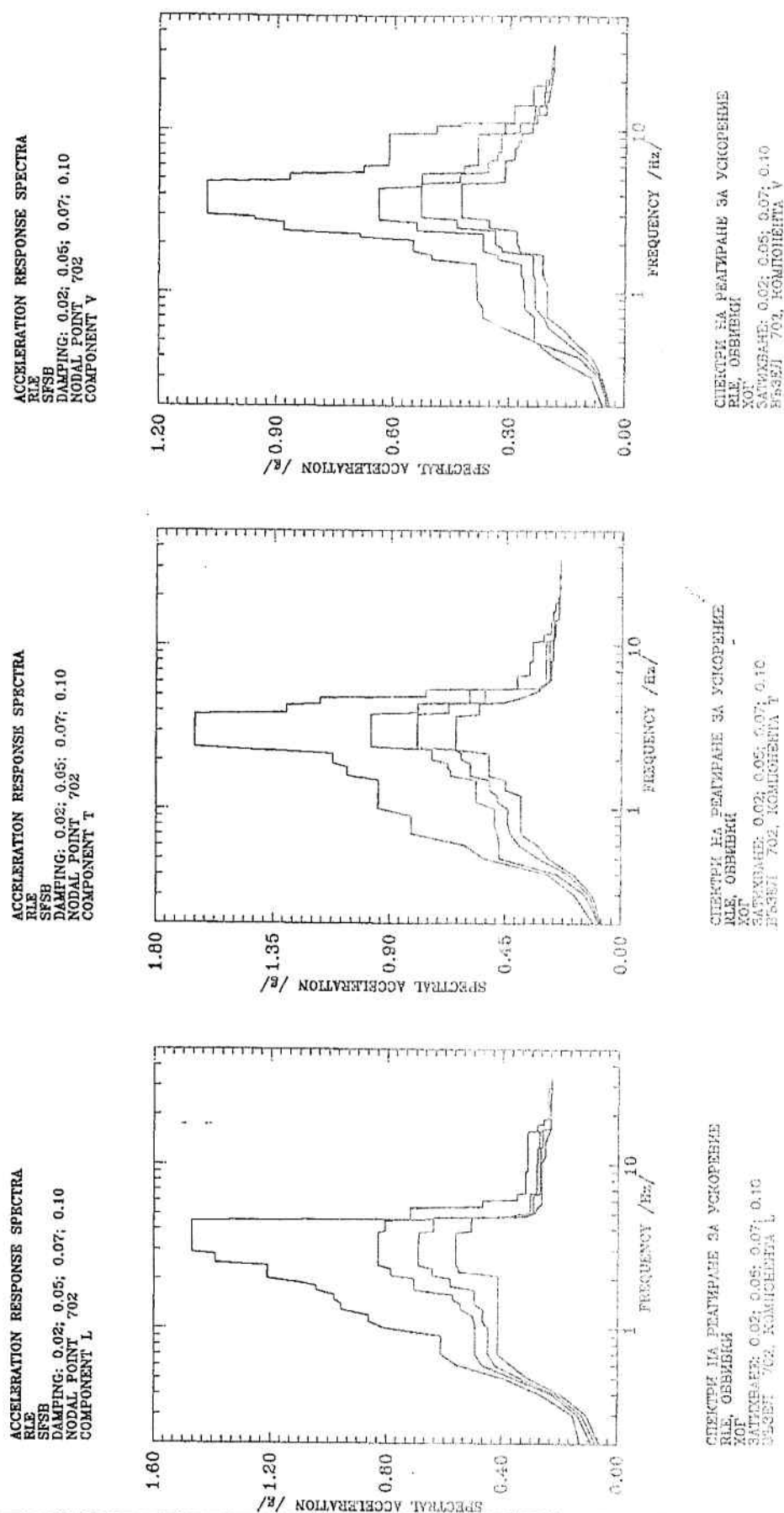
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.20	.1892	.1881	.1881	.1881	.1471	.1456	.1454	.1453	.1217	.1150	.1150	.1150
20.40	.1892	.1880	.1880	.1880	.1471	.1455	.1454	.1452	.1217	.1146	.1146	.1146
20.60	.1892	.1879	.1879	.1879	.1471	.1454	.1453	.1451	.1217	.1143	.1143	.1143
20.80	.1892	.1879	.1879	.1879	.1471	.1452	.1451	.1451	.1217	.1142	.1140	.1140
21.00	.1892	.1879	.1878	.1878	.1471	.1451	.1450	.1450	.1217	.1141	.1139	.1138
21.20	.1892	.1879	.1878	.1878	.1471	.1451	.1449	.1449	.1217	.1141	.1137	.1135
21.40	.1892	.1879	.1878	.1877	.1471	.1451	.1449	.1448	.1217	.1140	.1136	.1133
21.60	.1892	.1879	.1877	.1877	.1471	.1451	.1448	.1448	.1163	.1140	.1135	.1131
21.80	.1892	.1879	.1877	.1876	.1471	.1451	.1448	.1447	.1163	.1140	.1134	.1129
22.00	.1892	.1879	.1877	.1876	.1471	.1451	.1448	.1447	.1163	.1139	.1132	.1127
22.20	.1892	.1879	.1876	.1875	.1471	.1451	.1447	.1446	.1163	.1137	.1130	.1125
22.40	.1892	.1878	.1875	.1874	.1471	.1451	.1447	.1446	.1163	.1134	.1127	.1124
22.60	.1888	.1876	.1874	.1873	.1471	.1451	.1447	.1445	.1163	.1133	.1126	.1122
22.80	.1881	.1874	.1873	.1873	.1471	.1451	.1446	.1445	.1163	.1130	.1124	.1121
23.00	.1872	.1872	.1872	.1872	.1471	.1451	.1446	.1445	.1163	.1127	.1121	.1120
23.20	.1872	.1871	.1871	.1871	.1471	.1451	.1446	.1444	.1163	.1124	.1119	.1118
23.40	.1872	.1870	.1870	.1870	.1471	.1451	.1446	.1444	.1163	.1121	.1117	.1117
23.60	.1872	.1870	.1870	.1870	.1471	.1451	.1446	.1444	.1163	.1117	.1116	.1116
23.80	.1872	.1869	.1869	.1869	.1471	.1451	.1445	.1443	.1163	.1115	.1115	.1115
24.00	.1872	.1868	.1868	.1868	.1471	.1451	.1445	.1443	.1163	.1114	.1114	.1114
24.20	.1872	.1868	.1868	.1868	.1471	.1451	.1445	.1443	.1163	.1113	.1113	.1113
24.40	.1872	.1868	.1868	.1868	.1471	.1451	.1445	.1442	.1163	.1112	.1112	.1112
24.60	.1872	.1868	.1868	.1868	.1471	.1451	.1444	.1442	.1163	.1111	.1111	.1111
24.80	.1872	.1868	.1868	.1868	.1471	.1451	.1444	.1441	.1163	.1110	.1110	.1110
25.00	.1872	.1868	.1868	.1868	.1471	.1451	.1443	.1441	.1163	.1109	.1109	.1109
25.20	.1872	.1868	.1868	.1868	.1471	.1451	.1442	.1440	.1163	.1106	.1106	.1106
25.40	.1872	.1868	.1868	.1868	.1471	.1451	.1441	.1439	.1163	.1105	.1105	.1105
25.60	.1872	.1868	.1868	.1868	.1471	.1451	.1440	.1439	.1163	.1104	.1104	.1104
25.80	.1872	.1868	.1868	.1868	.1471	.1451	.1439	.1438	.1163	.1103	.1103	.1103
26.00	.1871	.1868	.1868	.1868	.1471	.1451	.1438	.1437	.1163	.1103	.1102	.1102
26.20	.1871	.1868	.1868	.1868	.1471	.1451	.1438	.1436	.1163	.1103	.1101	.1101
26.40	.1871	.1868	.1868	.1868	.1471	.1451	.1437	.1436	.1163	.1103	.1100	.1100
26.60	.1871	.1868	.1868	.1868	.1471	.1451	.1436	.1435	.1163	.1102	.1099	.1099
26.80	.1871	.1868	.1868	.1868	.1471	.1451	.1435	.1434	.1163	.1101	.1098	.1098

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-37 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.00	.1871	.1868	.1868	.1868	.1471	.1451	.1434	.1434	.1163	.1100	.1097	.1097
27.20	.1871	.1868	.1868	.1868	.1471	.1451	.1434	.1433	.1163	.1098	.1096	.1096
27.40	.1871	.1868	.1868	.1868	.1451	.1451	.1433	.1433	.1163	.1096	.1095	.1095
27.60	.1871	.1868	.1868	.1868	.1451	.1451	.1433	.1432	.1112	.1096	.1094	.1094
27.80	.1871	.1868	.1868	.1868	.1451	.1451	.1432	.1432	.1112	.1096	.1094	.1094
28.00	.1871	.1868	.1868	.1868	.1437	.1432	.1432	.1431	.1112	.1096	.1094	.1094
28.20	.1871	.1868	.1868	.1868	.1437	.1431	.1431	.1431	.1112	.1096	.1094	.1094
28.40	.1870	.1868	.1868	.1868	.1437	.1431	.1431	.1430	.1112	.1096	.1094	.1094
28.60	.1868	.1868	.1868	.1868	.1437	.1431	.1431	.1430	.1112	.1096	.1094	.1094
28.80	.1868	.1868	.1868	.1868	.1437	.1431	.1430	.1430	.1112	.1096	.1094	.1094
29.00	.1868	.1868	.1868	.1868	.1437	.1431	.1430	.1429	.1112	.1096	.1094	.1094
29.20	.1868	.1868	.1868	.1868	.1437	.1431	.1430	.1429	.1112	.1096	.1094	.1094
29.40	.1868	.1868	.1868	.1868	.1434	.1430	.1429	.1429	.1112	.1096	.1094	.1094
29.60	.1868	.1868	.1868	.1868	.1432	.1430	.1429	.1429	.1112	.1096	.1094	.1094
29.80	.1868	.1868	.1868	.1868	.1430	.1430	.1429	.1429	.1112	.1096	.1094	.1094
30.00	.1868	.1868	.1868	.1868	.1430	.1430	.1429	.1429	.1112	.1096	.1094	.1093
30.20	.1868	.1868	.1868	.1868	.1430	.1430	.1429	.1429	.1112	.1094	.1093	.1093
30.40	.1868	.1868	.1868	.1868	.1430	.1429	.1429	.1428	.1112	.1094	.1093	.1092
30.60	.1868	.1868	.1868	.1868	.1430	.1429	.1429	.1428	.1112	.1094	.1093	.1092
30.80	.1868	.1868	.1868	.1868	.1430	.1429	.1428	.1428	.1112	.1094	.1093	.1092
31.00	.1868	.1868	.1868	.1868	.1430	.1428	.1428	.1428	.1112	.1094	.1093	.1092
31.20	.1860	.1860	.1860	.1860	.1430	.1428	.1428	.1428	.1103	.1094	.1092	.1092
31.40	.1860	.1859	.1859	.1859	.1430	.1428	.1428	.1427	.1103	.1094	.1092	.1091
31.60	.1860	.1859	.1859	.1859	.1430	.1428	.1428	.1427	.1103	.1094	.1092	.1091
31.80	.1860	.1859	.1859	.1859	.1430	.1428	.1428	.1427	.1103	.1094	.1092	.1091
32.00	.1860	.1859	.1859	.1859	.1430	.1428	.1428	.1427	.1103	.1093	.1091	.1090
32.20	.1860	.1859	.1859	.1859	.1430	.1428	.1428	.1427	.1102	.1092	.1090	.1090
32.40	.1860	.1858	.1858	.1858	.1430	.1428	.1428	.1427	.1101	.1091	.1090	.1089
32.60	.1860	.1858	.1858	.1858	.1430	.1428	.1428	.1427	.1098	.1090	.1089	.1088
32.80	.1860	.1858	.1858	.1858	.1430	.1428	.1428	.1427	.1095	.1089	.1088	.1088
33.00	.1860	.1858	.1858	.1858	.1430	.1428	.1428	.1427	.1091	.1088	.1088	.1088
33.20	.1860	.1858	.1858	.1858	.1430	.1428	.1428	.1427	.1089	.1088	.1088	.1088

Спектри на реагиране за укрепяваща конструкция на ХОГ



Фиг.Д.20 Спектри на реагиране. Въздействие -RLE. Възел 702

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-14
ЕТАЖНИ СПЕКТРИ НА РЕАГИРАНЕ - RLE
ВЪЗЕЛ 702

Hz	L			T			V		
	2%	5%	7%	10%	2%	5%	7%	10%	10%
.20	.1272	.0871	.0729	.0619	.1053	.0841	.0781	.0721	.0350
.40	.2685	.2269	.2122	.1964	.2841	.2490	.2018	.1854	.0842
.60	.5580	.4685	.4234	.3689	.6083	.4731	.3968	.3249	.1624
.80	.6117	.4926	.4497	.4153	.8159	.4931	.4403	.3905	.2004
1.00	.8105	.4926	.4497	.4153	.9456	.4931	.4403	.3905	.2004
1.20	.8628	.5046	.4664	.4153	.9456	.5656	.4814	.3905	.2065
1.40	.9568	.5449	.4959	.4153	.9456	.5656	.5125	.4511	.2126
1.60	.9823	.5734	.4959	.4153	1.0650	.6654	.5860	.5154	.2126
1.80	1.0430	.7074	.5825	.4153	1.0650	.6777	.5860	.5154	.2735
2.00	1.2120	.7074	.5825	.4153	1.1210	.7393	.6229	.5154	.2801
2.20	1.2120	.7875	.6428	.5526	1.1210	.7393	.6229	.5154	.2801
2.40	1.2120	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.2801
2.60	1.3890	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.3514
2.80	1.3890	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.3514
3.00	1.4690	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.4239
3.20	1.4690	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.4239
3.40	1.4690	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.4239
3.60	1.4690	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.4239
3.80	1.4690	.8310	.6910	.5607	1.6520	.9737	.7949	.6443	.4239
4.00	1.4690	.8080	.6394	.5067	1.2990	.7939	.6731	.5532	.4239
4.20	1.4690	.8080	.6394	.5067	1.2990	.7939	.6731	.5532	.4239
4.40	1.4690	.8080	.6394	.5067	1.1700	.7939	.6731	.5532	.4239
4.60	.7191	.6394	.6394	.5032	1.1700	.5900	.5207	.4380	.4239
4.80	.7191	.3690	.3383	.3183	1.1700	.5900	.5307	.3981	.3128
5.00	.7191	.3350	.3095	.2930	.7613	.5900	.5307	.3634	.3128
5.20	.7191	.3035	.2914	.2634	.7613	.5900	.5307	.3366	.3128
5.40	.7191	.3035	.2914	.2796	.7613	.5900	.5307	.3189	.3128
5.60	.4685	.3035	.2914	.2723	.4066	.5212	.3144	.3068	.3128
5.80	.4685	.3035	.2914	.2632	.4066	.3082	.3027	.2958	.3128
6.00	.4685	.3035	.2914	.2631	.4066	.2952	.2893	.2646	.3128
6.20	.3491	.3035	.2914	.2631	.4066	.2952	.2810	.2742	.3128
6.40	.3491	.3035	.2914	.2631	.4066	.2952	.2810	.2724	.3128
									.3539

Спектри на реагуране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-14 - Продължение

Hz	L			T			V					
	28	58	78	108	28	58	78	108	28	58	78	108
6.60	.3491	.3035	.2715	.2631	.3594	.2952	.2810	.2724	.6122	.3815	.3314	.2876
6.80	.3206	.2812	.2715	.2631	.3594	.2952	.2810	.2724	.6122	.3815	.3314	.2876
7.00	.3206	.2812	.2715	.2631	.3594	.2952	.2810	.2724	.6122	.3815	.3314	.2876
7.20	.3206	.2812	.2715	.2631	.3594	.2952	.2810	.2724	.6122	.3815	.3314	.2876
7.40	.3206	.2812	.2715	.2631	.3594	.2952	.2810	.2724	.6122	.3815	.3224	.2876
7.60	.3206	.2812	.2715	.2631	.3594	.2952	.2810	.2724	.6122	.3815	.3224	.2876
7.80	.3206	.2812	.2715	.2631	.3594	.2952	.2810	.2724	.6122	.3815	.3224	.2876
8.00	.3206	.2812	.2715	.2631	.3476	.2952	.2810	.2724	.6122	.3815	.3224	.2781
8.20	.3206	.2812	.2715	.2631	.3476	.2952	.2803	.2657	.6122	.3815	.3224	.2781
8.40	.3206	.2812	.2715	.2631	.3476	.2952	.2803	.2657	.6122	.3815	.3224	.2781
8.60	.3206	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.6122	.3815	.3224	.2696
8.80	.3206	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.6122	.3815	.3224	.2696
9.00	.3206	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.6122	.3815	.3224	.2696
9.20	.3140	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.6122	.3815	.3224	.2696
9.40	.3140	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.6122	.3815	.3224	.2696
9.60	.3140	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.4917	.3224	.3224	.2696
9.80	.3140	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.4917	.3129	.2752	.2421
10.00	.3140	.2812	.2712	.2631	.3476	.2952	.2803	.2657	.4917	.3129	.2752	.2421
10.20	.3140	.2782	.2697	.2631	.3476	.2952	.2803	.2657	.4917	.3129	.2752	.2421
10.40	.3140	.2782	.2697	.2631	.3476	.2952	.2803	.2657	.4917	.3129	.2752	.2421
10.60	.3140	.2782	.2697	.2594	.3040	.2952	.2803	.2657	.4917	.3129	.2752	.2421
10.80	.3140	.2782	.2697	.2590	.3040	.2952	.2695	.2633	.4261	.3129	.2752	.2421
11.00	.3140	.2782	.2697	.2556	.3040	.2640	.2633	.2633	.4261	.3129	.2752	.2421
11.20	.3140	.2782	.2697	.2538	.3040	.2640	.2633	.2633	.2884	.2371	.2371	.2305
11.40	.3140	.2782	.2697	.2536	.3040	.2640	.2605	.2570	.2884	.2371	.2371	.2305
11.60	.3140	.2782	.2697	.2538	.3040	.2640	.2605	.2570	.2884	.2371	.2371	.2305
11.80	.3140	.2782	.2697	.2538	.2761	.2640	.2603	.2570	.2884	.2371	.2371	.2305
12.00	.3140	.2782	.2697	.2538	.2761	.2640	.2596	.2570	.2884	.2371	.2571	.2305
12.20	.3140	.2782	.2697	.2538	.2761	.2640	.2586	.2570	.2884	.2371	.2371	.2305
12.40	.3140	.2782	.2697	.2536	.2761	.2640	.2576	.2570	.2884	.2371	.2371	.2305
12.60	.3140	.2782	.2697	.2536	.2761	.2640	.2572	.2570	.2884	.2358	.2261	.2061
12.80	.3140	.2722	.2616	.2538	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061
13.00	.3140	.2722	.2616	.2538	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061
13.20	.3140	.2722	.2616	.2538	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-14 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.3140	.2722	.2616	.2536	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061
13.60	.3140	.2722	.2616	.2528	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061
13.80	.3140	.2722	.2616	.2517	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061
14.00	.3140	.2722	.2616	.2502	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061
14.20	.3140	.2722	.2616	.2485	.2761	.2640	.2570	.2570	.2884	.2358	.2261	.2061
14.40	.3140	.2722	.2616	.2475	.2687	.2463	.2458	.2458	.2398	.2135	.2091	.2052
14.60	.3140	.2722	.2616	.2464	.2687	.2463	.2453	.2453	.2398	.2135	.2091	.2045
14.80	.3140	.2722	.2616	.2452	.2687	.2463	.2453	.2449	.2398	.2135	.2091	.2037
15.00	.3140	.2722	.2616	.2439	.2687	.2463	.2453	.2448	.2398	.2135	.2091	.2028
15.20	.3140	.2722	.2616	.2423	.2687	.2463	.2453	.2448	.2398	.2135	.2091	.2014
15.40	.3140	.2722	.2616	.2410	.2687	.2463	.2453	.2448	.2398	.2135	.2091	.2006
15.60	.3140	.2722	.2616	.2396	.2687	.2463	.2453	.2448	.2398	.2135	.2091	.2000
15.80	.3101	.2722	.2616	.2382	.2687	.2463	.2453	.2448	.2398	.2135	.2091	.1995
16.00	.2790	.2611	.2611	.2368	.2687	.2463	.2451	.2446	.2398	.2135	.2091	.1991
16.20	.2790	.2611	.2611	.2355	.2591	.2463	.2448	.2445	.2398	.2135	.2091	.1987
16.40	.2790	.2350	.2343	.2343	.2591	.2463	.2448	.2443	.2398	.2135	.2091	.1985
16.60	.2790	.2347	.2335	.2331	.2591	.2463	.2443	.2441	.2398	.2135	.2091	.1982
16.80	.2790	.2346	.2335	.2326	.2591	.2463	.2443	.2439	.2398	.2135	.2091	.1978
17.00	.2790	.2346	.2335	.2326	.2591	.2463	.2443	.2439	.2398	.2135	.2091	.1975
17.20	.2790	.2346	.2335	.2326	.2591	.2463	.2439	.2438	.2398	.2135	.2091	.1971
17.40	.2790	.2346	.2335	.2326	.2591	.2463	.2437	.2436	.2398	.2135	.2091	.1966
17.60	.2591	.2346	.2335	.2326	.2591	.2463	.2436	.2434	.2398	.2135	.2091	.1962
17.80	.2591	.2346	.2335	.2326	.2591	.2463	.2436	.2433	.2398	.2135	.2091	.1962
18.00	.2591	.2346	.2335	.2326	.2591	.2463	.2436	.2433	.2398	.2135	.2091	.1957
18.20	.2591	.2346	.2335	.2326	.2591	.2463	.2436	.2433	.2398	.2135	.2091	.1953
18.40	.2591	.2346	.2335	.2326	.2591	.2463	.2436	.2433	.2398	.2135	.2091	.1952
18.60	.2591	.2346	.2335	.2326	.2591	.2463	.2436	.2430	.2398	.2135	.2091	.1949
18.80	.2591	.2346	.2335	.2326	.2591	.2463	.2436	.2429	.2398	.2135	.2091	.1945
19.00	.2416	.2346	.2335	.2326	.2504	.2463	.2429	.2428	.2398	.2135	.2091	.1941
19.20	.2416	.2346	.2335	.2326	.2504	.2463	.2427	.2426	.2398	.2135	.2091	.1937
19.40	.2416	.2346	.2335	.2326	.2504	.2463	.2426	.2425	.2398	.2135	.2091	.1934
19.60	.2416	.2346	.2335	.2326	.2504	.2463	.2425	.2424	.2398	.2135	.2091	.1930
19.80	.2416	.2346	.2335	.2326	.2504	.2463	.2424	.2423	.2398	.2135	.2091	.1927
20.00	.2416	.2346	.2335	.2326	.2504	.2463	.2424	.2422	.2398	.2135	.2091	.1923
					.2430	.2424	.2423	.2421	.2398	.2135	.2091	.1920
									.2087	.2005	.1919	.1917

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-14 – Продължение

Hz	L				T				V			
	28	58	78	108	28	58	78	108	28	58	78	108
20.20	.2416	.2346	.2335	.2326	.2430	.2424	.2423	.2421	.2087	.2005	.1913	.1911
20.40	.2416	.2346	.2335	.2326	.2430	.2423	.2423	.2420	.2087	.2005	.1910	.1908
20.60	.2416	.2346	.2335	.2325	.2429	.2423	.2423	.2418	.2005	.2005	.1907	.1906
20.80	.2416	.2346	.2335	.2324	.2427	.2423	.2423	.2417	.1952	.1904	.1904	.1903
21.00	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2416	.1952	.1901	.1901	.1900
21.20	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2415	.1952	.1899	.1899	.1898
21.40	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2414	.1952	.1897	.1897	.1895
21.60	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2412	.1952	.1896	.1894	.1893
21.80	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2411	.1952	.1895	.1892	.1891
22.00	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2410	.1952	.1894	.1890	.1888
22.20	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2409	.1952	.1892	.1887	.1886
22.40	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2408	.1952	.1888	.1884	.1883
22.60	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2406	.1952	.1883	.1881	.1880
22.80	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2405	.1952	.1878	.1878	.1878
23.00	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2404	.1952	.1875	.1875	.1875
23.20	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2404	.1952	.1873	.1873	.1873
23.40	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2403	.1952	.1872	.1871	.1871
23.60	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2403	.1924	.1872	.1869	.1869
23.80	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2403	.1924	.1872	.1868	.1867
24.00	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2403	.1924	.1872	.1868	.1866
24.20	.2416	.2346	.2335	.2324	.2423	.2423	.2423	.2403	.1924	.1872	.1868	.1865
24.40	.2416	.2346	.2335	.2323	.2423	.2423	.2423	.2403	.1924	.1872	.1868	.1865
24.60	.2416	.2346	.2335	.2323	.2423	.2423	.2423	.2403	.1924	.1872	.1868	.1865
24.80	.2416	.2346	.2335	.2322	.2423	.2423	.2423	.2403	.1924	.1872	.1868	.1865
25.00	.2416	.2337	.2327	.2321	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
25.20	.2416	.2337	.2326	.2319	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
25.40	.2416	.2337	.2326	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
25.60	.2416	.2337	.2326	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
25.80	.2416	.2337	.2326	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
26.00	.2416	.2337	.2326	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
26.20	.2416	.2337	.2326	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
26.40	.2416	.2337	.2326	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
26.60	.2416	.2335	.2326	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
26.80	.2416	.2332	.2325	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865

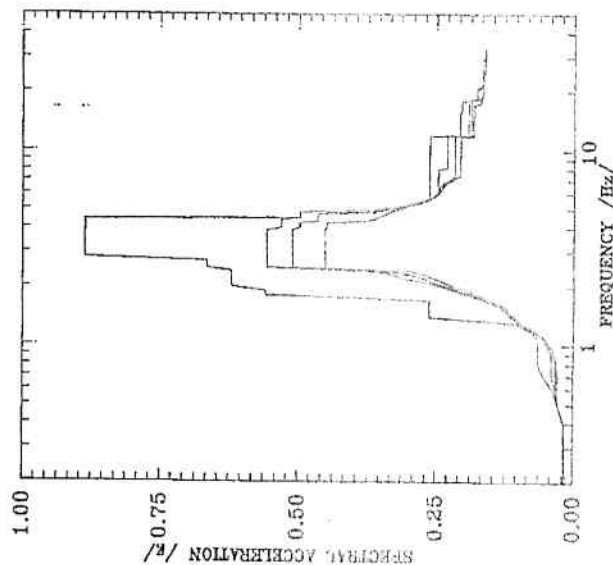
Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-14 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.00	.2416	.2328	.2323	.2318	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
27.20	.2416	.2325	.2322	.2317	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
27.40	.2416	.2325	.2321	.2317	.2407	.2405	.2404	.2403	.1924	.1872	.1868	.1865
27.60	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
27.80	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
28.00	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
28.20	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
28.40	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
28.60	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
28.80	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
29.00	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
29.20	.2416	.2325	.2320	.2316	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
29.40	.2361	.2325	.2320	.2315	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
29.60	.2351	.2325	.2320	.2315	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
29.80	.2349	.2325	.2319	.2315	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
30.00	.2348	.2324	.2319	.2315	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
30.20	.2345	.2323	.2318	.2315	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
30.40	.2343	.2321	.2317	.2314	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
30.60	.2339	.2320	.2316	.2314	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
30.80	.2336	.2319	.2315	.2314	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
31.00	.2332	.2317	.2314	.2314	.2407	.2405	.2404	.2403	.1886	.1872	.1868	.1865
31.20	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
31.40	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
31.60	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
31.80	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
32.00	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
32.20	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
32.40	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
32.60	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
32.80	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
33.00	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864
33.20	.2329	.2315	.2314	.2314	.2405	.2405	.2404	.2403	.1886	.1872	.1868	.1864

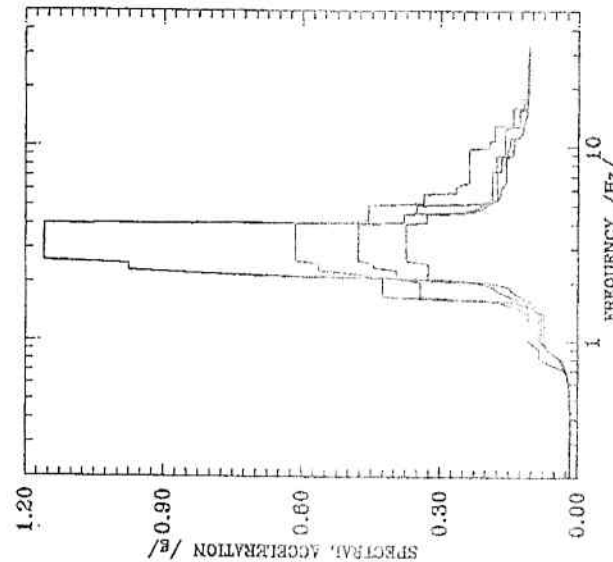
Спектри на реагиране за укрепената конструкция на ХОГ

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 702
COMPONENT L



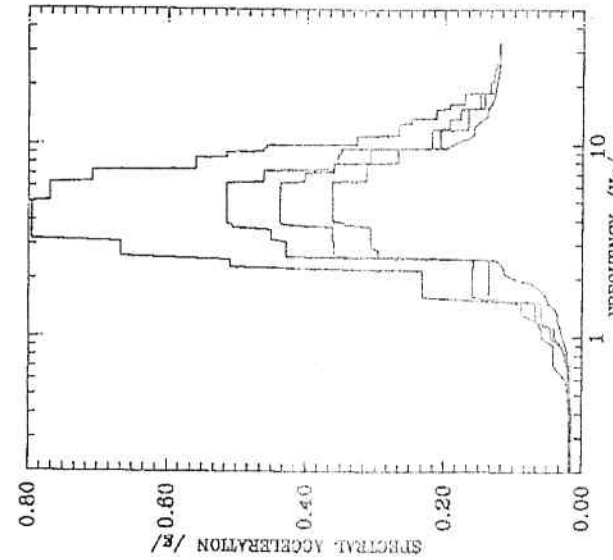
СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЭСНИИ, ОБЕРИЖИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 702, КОМПОНЕНТА L

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 702
COMPONENT T



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЭСНИИ, ОБЕРИЖИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 702, КОМПОНЕНТА T

ACCELERATION RESPONSE SPECTRA
LOCAL EARTHQUAKE, ENVELOPES
SFSB
DAMPING: 0.02; 0.05; 0.07; 0.10
NODAL POINT 702
COMPONENT V



СПЕКТРИ НА РЕАГИРАНЕ ЗА УСКОРЕНИЕ
ЛОКАЛНИ ЗЕМЕТРЭСНИИ, ОБЕРИЖИ
ХОГ
ЗАТЪХВАНЕ: 0.02; 0.05; 0.07; 0.10
ВЪЗЕЛ 702, КОМПОНЕНТА V

Фиг.Д.39 Спектри на реагиране. Въздействие - локални земетр.

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-33
СТАБИЛИЗОВАННЫЕ РЕАКТИВЫ - ЛОКАЛИЗОВАННЫЕ
ВЪЗЛЕ 702

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
.20	.0166	.0154	.0148	.0140	.0184	.0171	.0163	.0154	.0187	.0173	.0165	.0156
.40	.0174	.0171	.0171	.0171	.0184	.0171	.0163	.0154	.0189	.0173	.0165	.0157
.60	.0376	.0333	.0311	.0285	.0203	.0194	.0191	.0190	.0238	.0210	.0198	.0184
.80	.0654	.0393	.0332	.0309	.0841	.0406	.0373	.0334	.0414	.0270	.0238	.0206
1.00	.0654	.0492	.0434	.0394	.1088	.0846	.0789	.0723	.0600	.0459	.0404	.0284
1.20	.0804	.0753	.0736	.0709	.1088	.0846	.0789	.0723	.0679	.0679	.0594	.0400
1.40	.2624	.1129	.1089	.1039	.1088	.0846	.0789	.0723	.0881	.0679	.0594	.0400
1.60	.2624	.1340	.1290	.1239	.1742	.1352	.1159	.1042	.2327	.1582	.1353	.0518
1.80	.5600	.1873	.1792	.1667	.4254	.3451	.1735	.1432	.2327	.1582	.1353	.0649
2.00	.6210	.2388	.2277	.2142	.4254	.3451	.2194	.1965	.2327	.1582	.1353	.0988
2.20	.6210	.3103	.2716	.2534	.7329	.4714	.3963	.3271	.2327	.1582	.1353	.1128
2.40	.6210	.3605	.3356	.2999	.9754	.5640	.4456	.3271	.5095	.1582	.1353	.1202
2.60	.6667	.5569	.5103	.4514	1.1590	.6139	.4791	.3753	.6667	.4285	.3604	.2968
2.80	.8865	.5569	.5103	.4514	1.1590	.6139	.4791	.3753	.6667	.4285	.3604	.2968
3.00	.8865	.5569	.5103	.4514	1.1590	.6139	.4791	.3753	.6667	.4285	.3604	.3075
3.20	.8865	.5569	.5103	.4514	1.1590	.6139	.4791	.3753	.7953	.4512	.3625	.3082
3.40	.8865	.5569	.5103	.4514	1.1590	.6139	.4791	.3753	.7953	.4512	.3625	.3082
3.60	.8865	.5569	.5103	.4514	1.1590	.6139	.4791	.3753	.7953	.4512	.3625	.3082
3.80	.8865	.5569	.5103	.4514	1.1590	.6139	.4791	.3753	.7953	.5072	.4315	.3454
4.00	.8865	.5803	.4976	.4491	1.1590	.6139	.4791	.3753	.7953	.5151	.4382	.3624
4.20	.8865	.5303	.4976	.4491	.4566	.3798	.3798	.3294	.7953	.5151	.4382	.3624
4.40	.8865	.5303	.4545	.3645	.4566	.3798	.3798	.3294	.7953	.5151	.4382	.3624
4.60	.4957	.4957	.4646	.3481	.4566	.3506	.2510	.2295	.7953	.5151	.4382	.3624
4.80	.4957	.4957	.3595	.3337	.4566	.3506	.2252	.2093	.7953	.5151	.4382	.3624
5.00	.3692	.3473	.3339	.3162	.4566	.3506	.2094	.1991	.7953	.5151	.4382	.3624
5.20	.3269	.3123	.3060	.2961	.3369	.2069	.1947	.1850	.7698	.5151	.4382	.3624
5.40	.2894	.2682	.2624	.2577	.3369	.1866	.1771	.1730	.7698	.5151	.4382	.3624
5.60	.2657	.2657	.2654	.2630	.3369	.1866	.1771	.1700	.7698	.5151	.4382	.3624
5.80	.2622	.2540	.2540	.2530	.2656	.1866	.1771	.1682	.7698	.5151	.4382	.3624
6.00	.2622	.2476	.2476	.2464	.2656	.1866	.1771	.1674	.7698	.5151	.4382	.3624
6.20	.2622	.2475	.2448	.2420	.2656	.1866	.1771	.1641	.7698	.5151	.4382	.3624
6.40	.2622	.2475	.2434	.2385	.2545	.1866	.1771	.1588	.7085	.4620	.4021	.3624

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-33 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
6.60	.2622	.2475	.2410	.2345	.2369	.1866	.1771	.1560	.7085	.4620	.4021	.3135
6.80	.2622	.2475	.2361	.2293	.2369	.1866	.1771	.1560	.7085	.4620	.4021	.3135
7.00	.2622	.2475	.2283	.2225	.2369	.1866	.1771	.1560	.7085	.4620	.4021	.3135
7.20	.2622	.2475	.2201	.2147	.2369	.1866	.1771	.1560	.7085	.4620	.3607	.3135
7.40	.2622	.2475	.2175	.2065	.2369	.1866	.1771	.1560	.5596	.3607	.3607	.3135
7.60	.2622	.2475	.2175	.2061	.2369	.1772	.1668	.1560	.5596	.3607	.3607	.3135
7.80	.2622	.2475	.2175	.2061	.2369	.1772	.1668	.1560	.5596	.3607	.3607	.3135
8.00	.2622	.2475	.2175	.2061	.2369	.1772	.1668	.1560	.5596	.3543	.3078	.2682
8.20	.2622	.2300	.2175	.2061	.2369	.1772	.1668	.1560	.5596	.3543	.3078	.2682
8.40	.2622	.2300	.2175	.2061	.2369	.1772	.1668	.1560	.5596	.3543	.3078	.2682
8.60	.2622	.2300	.2175	.2061	.2369	.1772	.1665	.1555	.5153	.3543	.3078	.2682
8.80	.2622	.2300	.2175	.2061	.2369	.1772	.1665	.1555	.5153	.3543	.3078	.2682
9.00	.2622	.2300	.2175	.2061	.2369	.1586	.1520	.1425	.5153	.3501	.3078	.2682
9.20	.2622	.2300	.2175	.2061	.2369	.1586	.1520	.1425	.4616	.3501	.3078	.2682
9.40	.2622	.2300	.2175	.2061	.2369	.1586	.1520	.1425	.4616	.3501	.3078	.2682
9.60	.2622	.2300	.2175	.2061	.2369	.1586	.1520	.1425	.4574	.2184	.2066	.1963
9.80	.2622	.2300	.2175	.2061	.1927	.1586	.1494	.1397	.4574	.2184	.2066	.1929
10.00	.2622	.2300	.2175	.2061	.1927	.1586	.1480	.1391	.3275	.2184	.2066	.1880
10.20	.2622	.2300	.2175	.2061	.1927	.1586	.1480	.1391	.3275	.2184	.2066	.1845
10.40	.2622	.2300	.2175	.2061	.1927	.1586	.1480	.1391	.3275	.2184	.2066	.1785
10.60	.2622	.2300	.2175	.2061	.1927	.1586	.1480	.1391	.3275	.2184	.2066	.1718
10.80	.2622	.2300	.2175	.2061	.1814	.1586	.1480	.1391	.3275	.2184	.2066	.1653
11.00	.2622	.2300	.2175	.2061	.1814	.1586	.1480	.1391	.3275	.2184	.2066	.1618
11.20	.2622	.2300	.2175	.2061	.1814	.1586	.1295	.1263	.2662	.2184	.2066	.1577
11.40	.2622	.2300	.2175	.2061	.1814	.1586	.1273	.1244	.2662	.2184	.2066	.1575
11.60	.2622	.2300	.2175	.2061	.1814	.1586	.1251	.1223	.2662	.2184	.2066	.1575
11.80	.2622	.2300	.2175	.1818	.1814	.1586	.1222	.1205	.2662	.2184	.2066	.1575
12.00	.2068	.1912	.1862	.1818	.1814	.1586	.1219	.1198	.2662	.2184	.1660	.1575
12.20	.2068	.1912	.1862	.1818	.1814	.1558	.1219	.1175	.2662	.1933	.1660	.1575
12.40	.2068	.1912	.1862	.1818	.1814	.1558	.1219	.1173	.2662	.1933	.1660	.1566
12.60	.2068	.1912	.1862	.1818	.1814	.1270	.1211	.1169	.2662	.1933	.1660	.1548
12.80	.2068	.1912	.1862	.1818	.1416	.1270	.1206	.1166	.2662	.1933	.1660	.1524
13.00	.2068	.1912	.1862	.1818	.1416	.1270	.1196	.1162	.2482	.1933	.1660	.1506
13.20	.2068	.1912	.1862	.1818	.1416	.1270	.1182	.1155	.2482	.1933	.1660	.1484

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-33 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
13.40	.2068	.1912	.1862	.1818	.1416	.1270	.1167	.1147	.2482	.1933	.1660	.1458
13.60	.2068	.1912	.1862	.1818	.1416	.1270	.1163	.1144	.2482	.1768	.1660	.1432
13.80	.2068	.1912	.1862	.1818	.1416	.1270	.1159	.1140	.2117	.1768	.1660	.1405
14.00	.2068	.1912	.1862	.1818	.1416	.1270	.1152	.1134	.2117	.1768	.1660	.1379
14.20	.2068	.1912	.1862	.1818	.1416	.1270	.1142	.1126	.2117	.1768	.1660	.1372
14.40	.2068	.1912	.1862	.1818	.1416	.1270	.1130	.1117	.2117	.1768	.1660	.1372
14.60	.2068	.1912	.1862	.1818	.1416	.1270	.1119	.1114	.2117	.1768	.1660	.1372
14.80	.2068	.1912	.1862	.1818	.1416	.1270	.1119	.1114	.2117	.1768	.1660	.1372
15.00	.2068	.1912	.1862	.1818	.1416	.1270	.1119	.1114	.2117	.1768	.1660	.1371
15.20	.2068	.1912	.1862	.1818	.1416	.1270	.1119	.1114	.1923	.1768	.1660	.1366
15.40	.2068	.1912	.1862	.1818	.1416	.1184	.1118	.1113	.1923	.1487	.1423	.1359
15.60	.2068	.1912	.1862	.1818	.1416	.1184	.1117	.1112	.1923	.1487	.1423	.1351
15.80	.2040	.1912	.1862	.1818	.1233	.1184	.1116	.1111	.1923	.1487	.1423	.1340
16.00	.2040	.1912	.1862	.1818	.1233	.1184	.1115	.1110	.1923	.1487	.1423	.1330
16.20	.2040	.1912	.1862	.1818	.1233	.1184	.1113	.1108	.1706	.1487	.1423	.1321
16.40	.2040	.1912	.1862	.1818	.1233	.1184	.1111	.1106	.1706	.1487	.1423	.1313
16.60	.2040	.1912	.1862	.1818	.1233	.1184	.1108	.1104	.1706	.1487	.1423	.1306
16.80	.2040	.1912	.1862	.1818	.1233	.1125	.1104	.1101	.1706	.1487	.1423	.1300
17.00	.2040	.1912	.1862	.1818	.1253	.1125	.1100	.1099	.1706	.1487	.1423	.1295
17.20	.2040	.1912	.1862	.1818	.1233	.1125	.1097	.1097	.1706	.1487	.1423	.1290
17.40	.2040	.1912	.1862	.1705	.1233	.1125	.1095	.1095	.1706	.1487	.1423	.1285
17.60	.2040	.1912	.1862	.1699	.1233	.1125	.1093	.1093	.1706	.1487	.1423	.1281
17.80	.2040	.1912	.1862	.1693	.1125	.1125	.1091	.1091	.1706	.1487	.1423	.1277
18.00	.1912	.1912	.1862	.1696	.1125	.1125	.1089	.1089	.1706	.1487	.1423	.1273
18.20	.1912	.1912	.1862	.1683	.1125	.1125	.1088	.1088	.1706	.1487	.1423	.1270
18.40	.1758	.1678	.1678	.1678	.1106	.1087	.1087	.1087	.1487	.1487	.1423	.1267
18.60	.1758	.1674	.1674	.1674	.1106	.1085	.1085	.1085	.1345	.1266	.1265	.1265
18.80	.1758	.1670	.1670	.1670	.1106	.1085	.1084	.1084	.1345	.1265	.1263	.1263
19.00	.1758	.1666	.1666	.1666	.1106	.1085	.1083	.1083	.1345	.1263	.1261	.1261
19.20	.1758	.1663	.1663	.1663	.1106	.1085	.1082	.1082	.1345	.1262	.1260	.1259
19.40	.1758	.1660	.1660	.1660	.1106	.1085	.1081	.1081	.1345	.1262	.1259	.1257
19.60	.1758	.1657	.1657	.1657	.1106	.1085	.1080	.1080	.1345	.1261	.1257	.1255
19.80	.1758	.1655	.1655	.1655	.1106	.1085	.1080	.1080	.1345	.1260	.1256	.1253
20.00	.1758	.1653	.1653	.1653	.1106	.1085	.1079	.1079	.1345	.1257	.1254	.1251

Спектри на реагиране за укрепената конструкция на ХОГ

ТАБЛИЦА Д-33 - Продължение

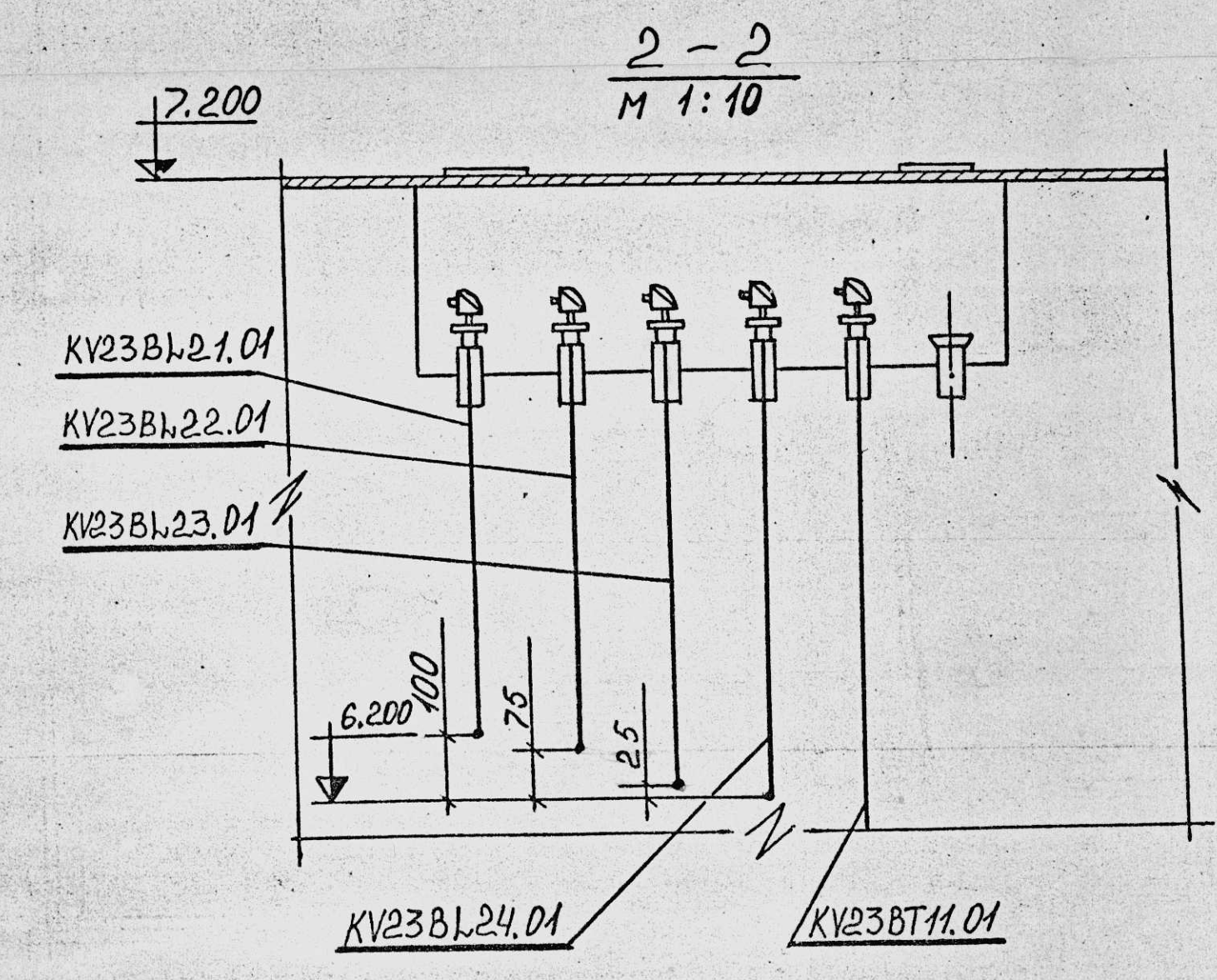
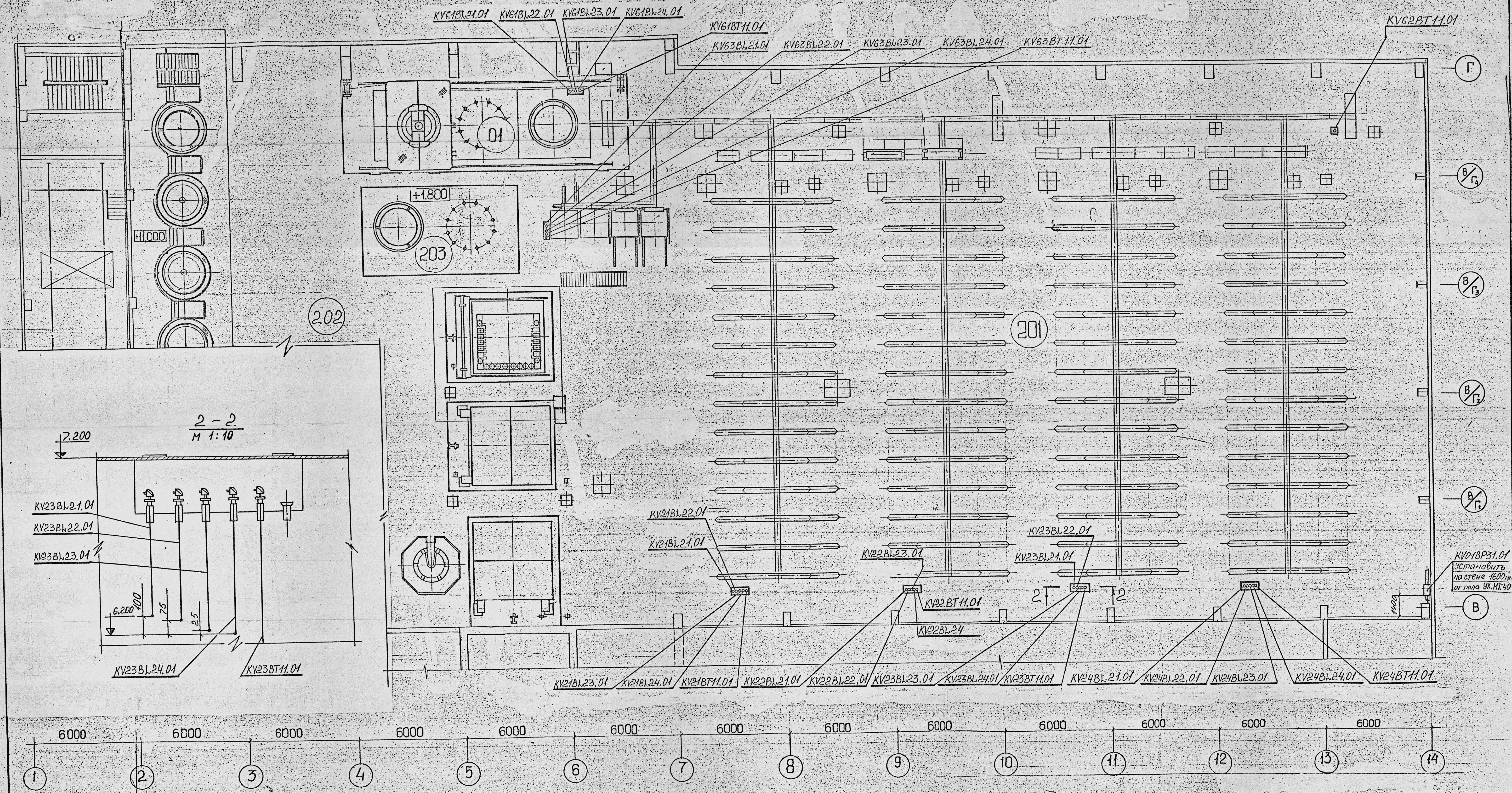
Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
20.20	.1758	.1653	.1653	.1653	.1106	.1085	.1079	.1079	.1345	.1255	.1253	.1250
20.40	.1758	.1653	.1653	.1653	.1106	.1085	.1079	.1078	.1345	.1252	.1250	.1248
20.60	.1758	.1653	.1653	.1653	.1106	.1085	.1079	.1077	.1345	.1249	.1248	.1246
20.80	.1758	.1653	.1653	.1653	.1106	.1085	.1079	.1077	.1345	.1247	.1246	.1244
21.00	.1694	.1653	.1653	.1653	.1106	.1085	.1079	.1076	.1289	.1245	.1244	.1242
21.20	.1682	.1653	.1653	.1653	.1106	.1085	.1079	.1076	.1289	.1243	.1241	.1240
21.40	.1678	.1653	.1653	.1653	.1106	.1085	.1079	.1075	.1289	.1241	.1239	.1238
21.60	.1671	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1289	.1239	.1237	.1236
21.80	.1664	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1289	.1237	.1235	.1234
22.00	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1289	.1234	.1232	.1232
22.20	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1289	.1230	.1230	.1230
22.40	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1228	.1228	.1228
22.60	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1226	.1226	.1226
22.80	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1224	.1224	.1224
23.00	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1222	.1222	.1222
23.20	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1220	.1220	.1220
23.40	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1219	.1219	.1219
23.60	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1217	.1217	.1217
23.80	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1216	.1216	.1216
24.00	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1074	.1283	.1215	.1215	.1215
24.20	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1073	.1283	.1213	.1213	.1213
24.40	.1659	.1653	.1653	.1653	.1106	.1085	.1079	.1073	.1259	.1212	.1212	.1212
24.60	.1659	.1653	.1653	.1653	.1106	.1084	.1079	.1073	.1259	.1211	.1211	.1211
24.80	.1659	.1653	.1653	.1653	.1106	.1083	.1078	.1072	.1259	.1210	.1210	.1210
25.00	.1659	.1628	.1619	.1617	.1106	.1083	.1078	.1072	.1259	.1209	.1209	.1209
25.20	.1659	.1619	.1617	.1615	.1106	.1083	.1078	.1072	.1259	.1208	.1208	.1208
25.40	.1659	.1616	.1615	.1614	.1106	.1082	.1077	.1072	.1259	.1208	.1207	.1207
25.60	.1659	.1614	.1613	.1613	.1106	.1081	.1076	.1071	.1259	.1208	.1206	.1206
25.80	.1659	.1614	.1612	.1612	.1106	.1080	.1075	.1070	.1259	.1208	.1205	.1205
26.00	.1659	.1614	.1611	.1611	.1106	.1079	.1074	.1070	.1259	.1208	.1205	.1204
26.20	.1659	.1614	.1610	.1610	.1106	.1079	.1073	.1069	.1259	.1208	.1205	.1205
26.40	.1659	.1614	.1609	.1609	.1106	.1079	.1071	.1068	.1259	.1208	.1205	.1205
26.60	.1659	.1614	.1609	.1608	.1101	.1079	.1071	.1067	.1223	.1208	.1205	.1202
26.80	.1659	.1614	.1609	.1607	.1101	.1079	.1071	.1066	.1223	.1208	.1205	.1202

Спектри на реагиране за укрепяващи конструкции на ХОГ

ТАБЛИЦА Д-33 - Продължение

Hz	L				T				V			
	2%	5%	7%	10%	2%	5%	7%	10%	2%	5%	7%	10%
27.00	.1659	.1614	.1609	.1607	.1101	.1079	.1071	.1065	.1223	.1208	.1205	.1202
27.20	.1659	.1614	.1609	.1606	.1101	.1079	.1071	.1065	.1223	.1208	.1205	.1202
27.40	.1659	.1614	.1609	.1606	.1101	.1079	.1071	.1065	.1223	.1208	.1205	.1202
27.60	.1659	.1614	.1608	.1605	.1101	.1079	.1071	.1065	.1223	.1208	.1205	.1202
27.80	.1659	.1614	.1608	.1604	.1101	.1078	.1071	.1065	.1223	.1208	.1204	.1202
28.00	.1659	.1614	.1607	.1603	.1101	.1078	.1070	.1065	.1223	.1208	.1204	.1202
28.20	.1659	.1614	.1607	.1603	.1101	.1078	.1070	.1065	.1223	.1207	.1204	.1202
28.40	.1659	.1614	.1606	.1603	.1099	.1077	.1070	.1065	.1220	.1207	.1203	.1202
28.60	.1659	.1614	.1606	.1603	.1094	.1076	.1070	.1065	.1219	.1206	.1203	.1202
28.80	.1659	.1614	.1605	.1603	.1090	.1075	.1069	.1065	.1219	.1205	.1202	.1202
29.00	.1659	.1614	.1604	.1603	.1087	.1073	.1068	.1065	.1219	.1204	.1202	.1202
29.20	.1659	.1614	.1603	.1603	.1086	.1073	.1067	.1065	.1219	.1204	.1202	.1202
29.40	.1659	.1614	.1603	.1603	.1086	.1072	.1066	.1065	.1219	.1203	.1202	.1202
29.60	.1622	.1614	.1603	.1603	.1086	.1071	.1066	.1065	.1219	.1203	.1202	.1202
29.80	.1622	.1614	.1603	.1603	.1083	.1070	.1065	.1065	.1219	.1203	.1202	.1202
30.00	.1622	.1614	.1603	.1603	.1080	.1068	.1065	.1065	.1219	.1202	.1202	.1202
30.20	.1622	.1614	.1603	.1603	.1076	.1066	.1065	.1065	.1219	.1202	.1202	.1202
30.40	.1622	.1614	.1603	.1603	.1071	.1066	.1065	.1065	.1219	.1202	.1202	.1202
30.60	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
30.80	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
31.00	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
31.20	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
31.40	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
31.60	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
31.80	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
32.00	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
32.20	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
32.40	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
32.60	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
32.80	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
33.00	.1622	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1219	.1202	.1202	.1202
33.20	.1620	.1614	.1603	.1603	.1069	.1066	.1065	.1065	.1202	.1202	.1202	.1202

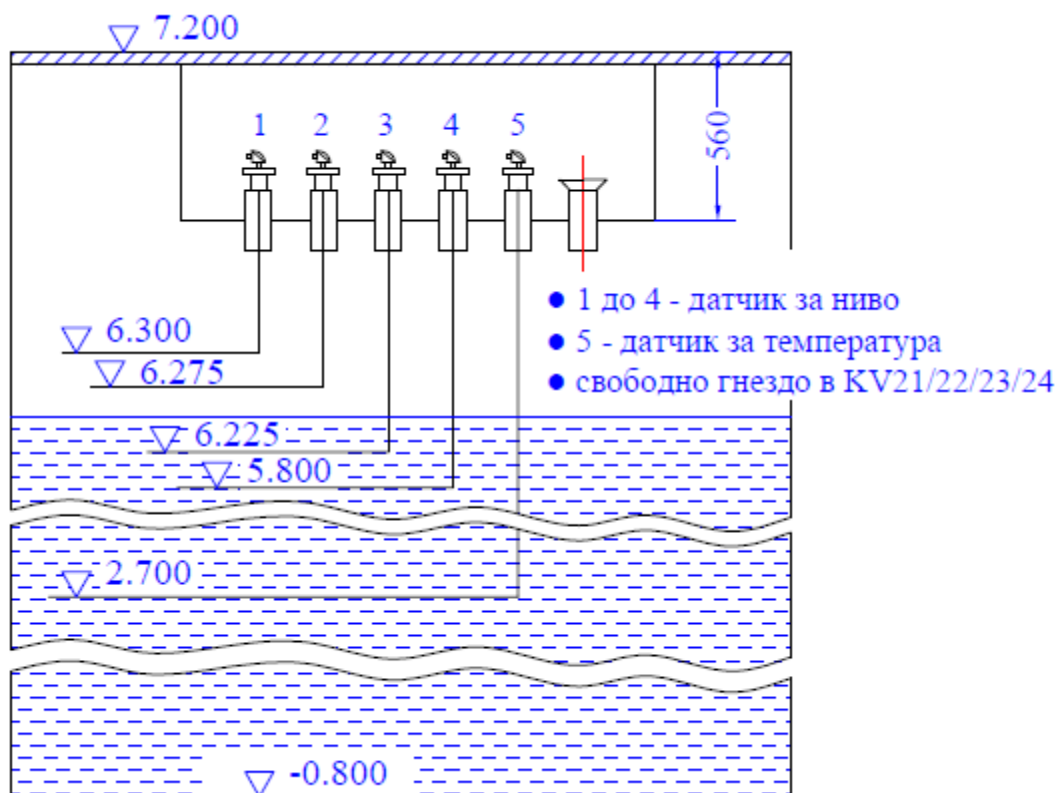
План на омм. 7200
М 1:100



Примечание:
1. Длины сигнализаторов уровня в отсеках KV21, KV22, KV24, KV61, KV63 аналогичны показанным на разрезе 2-2.

83 - 09833 - 5		
АЭС НОЗЛОДУЙ Хранилище отработавшего топлива		
Кип	Стация	Лист
	Р	Т
Бассейны выдержки, Пончуская 301, 202. План на омм. 7200 н.д. 7-14 и В-Г. Разрез 2-2		ВНИПИЭТ Ленинград

Схема на разположение на датчиците с отчитане на котите на контролните точки за измерване, съгласно изискването на Техническо задание №19.ХОГ.ТЗ.22 (Раздел „Общи изисквания към проекта”)



Забележка: Точните дължини на нивосигнализаторите и датчика за температура се определят в РП, с отчитане на условията за монтаж и настройка (по височина).

Препоръчва се изготвяне на геодезична снимка на закладните за отчитане и компенсиране на отклоненията при техния монтаж.