

COMMITTENTE:



PROGETTAZIONE:



CUP J84C19000370009

U.O. ARCHITETTURA AMBIENTE E TERRITORIO
S.O. AMBIENTE

PROGETTO DEFINITIVO

TRATTA A.V./A.C. MILANO-VERONA
NODO DI BRESCIA
POTENZIAMENTO INFRASTRUTTURALE DELLO SCALO DI BRESCIA
STUDIO VIBRAZIONALE
Report Misure Accelerometriche

SCALA:

--

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV.

IN1M 11 D 22 RH IM0004 002 A

Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	Autorizzato Data
A	Emissione Esecutiva	F. Glancola	Nov. 2021	A. Velocchia	Nov. 2021	L. Barbi	Nov. 2021	C. Ercolani Nov. 2021

PER EMISSIONE
ITALFERR S.p.A.
Dott.ssa Carolina Ercolani
S.O. Ambiente

File: IN1M11D22RHIM0004002A

n. Elab.:

Studio Vibrazionale Report misure accelerometriche	COMMESSA IN1M	LOTTO 11	FASE/ENTE D22	DOCUMENTO RH IM 0004 002	REV. A	FOGLIO 1 di 31
---	-------------------------	--------------------	-------------------------	------------------------------------	------------------	--------------------------

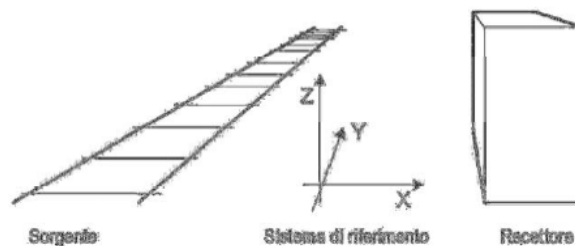
1. Premessa

Il presente documento costituisce il report di misura delle indagini vibrazionali condotte nell'ambito del Progetto di Potenziamento infrastrutturale dello scalo di Brescia.

Ai fini del presente lavoro sono state condotte delle misurazioni dei livelli vibrazionali lungo la linea ferroviaria esistente.

La metodica di misura si fonda sul rilievo contemporaneo delle vibrazioni indotte dai convogli ferroviari in tre punti situati sul terreno a distanza crescente dai binari.

Le vibrazioni vengono rilevate in termini di accelerazione del moto. In ogni punto le vibrazioni vengono misurate lungo tre assi mutuamente ortogonali (terna) denominati X, Y e Z orientati secondo la linea ferroviaria come indicato nella figura seguente.



Orientamento delle componenti vibrazionali rispetto alla ferrovia

Le misurazioni sono state eseguite con analizzatori di segnale collegati a terne accelerometriche, ognuna delle quali è composta da tre accelerometri disposti secondo gli assi spaziali x, y, z. Gli accelerometri sono collegati all'acquisitore multicanale tramite cavi coassiali schermati in modo da avere l'acquisizione simultanea delle accelerazioni sui tre assi x, y, z.

Le postazioni di misura caratterizzano i tipi di transito ferroviario distinguendo, tipologie di convogli, velocità di percorrenza, ecc.

L'indagine è stata condotta in una sezione caratterizzata dalla linea ferroviaria in rilevato.



Sezione di misura VIB_BRESCIA

I punti di misura sono stati posizionati in un terreno ricompreso tra il margine della linea ferroviaria e via Orzinuovi, nel Comune di Brescia (BS) così come indicato nello stralcio planimetrico precedente.

Le tre terne accelerometriche sono state così posizionate in un terreno adiacente alla linea ferroviaria:

- Terna 1: distante 8 metri dall'asse binario
- Terna 2: distante 14 metri dall'asse binario
- Terna 3: distante 20 metri dall'asse binario

Le indagini sono state eseguite il giorno 07/10/2021.

All'interno della finestra di misura sono transitati 40 convogli complessivi, di cui n° 25 treni Eurostar, n° 11 convogli merci, n° 3 treni regionali e n°1 locomotore isolato (LIS).

2. Normativa di riferimento

L'inquinamento da vibrazioni viene regolamentato da normative tecniche inerenti al disturbo sull'uomo e agli effetti sugli edifici, dal momento che non esiste a tutt'oggi una legislazione specifica in merito a

Studio Vibrazionale Report misure accelerometriche	COMMESSA IN1M	LOTTO 11	FASE/ENTE D22	DOCUMENTO RH IM 0004 002	REV. A	FOGLIO 3 di 31
---	-------------------------	--------------------	-------------------------	------------------------------------	------------------	--------------------------

livello nazionale. Tali norme introducono le grandezze e i parametri che devono essere valutati e definiscono le caratteristiche dei sistemi di rilevazione e della strumentazione da impiegare per le misure.

Il problema del disturbo causato dalle vibrazioni sull'uomo viene trattato, in particolare, dalla norma ISO 2631 e dalla UNI 9614 che risultano sostanzialmente in accordo. Gli standard di protezione sull'uomo previsti dalle suddette normative garantiscono ampiamente rispetto alla possibile insorgenza di danni agli edifici e, pertanto, l'azione sugli edifici deve essere valutata nel caso di beni monumentali o storici per i quali possono essere assunti limiti più restrittivi.

3. Parametri oggetto delle misure

La grandezza principale per la valutazione del disturbo da vibrazioni è individuata nel valore efficace (RMS - Root-Mean-Square) dell'accelerazione complessiva ponderata in frequenza a_w , definito dalla relazione:

$$a_w = \left[\frac{1}{T} \int_0^T a_w^2(t) dt \right]^{0,5}$$

dove:

- t è il tempo;
- $a_w(t)$ è l'accelerazione complessiva ponderata in frequenza;
- T è la durata del periodo di riferimento.

Una rappresentazione equivalente è data dal livello di accelerazione L , definito dalla relazione:

$$L = 20 \text{ LOG} \left(\frac{a_w}{a_0} \right)$$

dove a_0 è il valore dell'accelerazione di riferimento, pari a 10^{-6} m/s^2 . Nel caso si utilizzino sistemi di acquisizione senza filtri di ponderazione, il livello dell'accelerazione complessiva ponderata in frequenza può essere calcolato in fase di elaborazione dall'accelerogramma misurato in terzi d'ottava nell'intervallo 1-80 Hz.

Studio Vibrazionale
Report misure accelerometriche

COMMESSA
IN1M

LOTTO
11

FASE/ENTE
D22

DOCUMENTO
RH IM 0004 002

REV.
A

FOGLIO
4 di 31

DATI GENERALI DELLA MISURA

Area Operativa | **Brescia**

Punto di misura | Via OrzINUOVI nel Comune di Brescia (BS)

Monitoraggio | Ante operam | Corso d'opera | Post operam

Sezione misura | **VIB_BRESCIA**

Caratterizzazione tipologica delle sorgenti di monitoraggio

Traffico veicolare | Ferroviario - VIF | Cantiere - VIL | Altro *

(*)

Caratteristiche del Monitoraggio

Il monitoraggio è stato eseguito in contemporanea su tre terne accelerometriche.
Nell'area in cui si trova il ricettore è presente oltre alla linea ferroviaria una viabilità locale

Normativa di riferimento

Le misure per la valutazione del disturbo provocato dalle vibrazioni alle persone negli ambienti abitativi sono eseguite in conformità alle norme UNI 9614

Strumentazione adottata

Le misurazioni sono state eseguite con un analizzatore della Sinus – Modello Soundbook , Svantek SV 106



Studio Vibrazionale
Report misure accelerometriche

COMMESSA
IN1M

LOTTO
11

FASE/ENTE
D22

DOCUMENTO
RH IM 0004 002

REV.
A

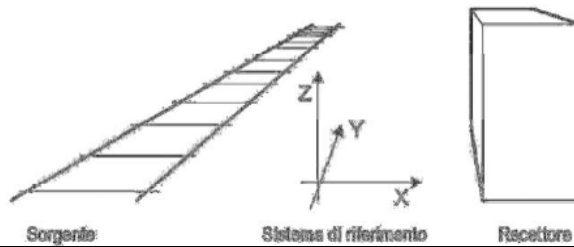
FOGLIO
5 di 31

PLANIMETRIE CON INDIVIDUAZIONE DEL PUNTO DI MISURA

ORIENTAMENTO ACCELEROMETRI COME IN FIGURA – ASSE Z VERTICALE



Stralcio planimetrico della sezione di misura VIB_BRESCIA



GRANDEZZE DI RIFERIMENTO PER L'ELABORAZIONE

Parametro di riferimento (UNI 9614 – Appendice A)

<i>Tipologia di vibrazioni</i>	<i>Parametro [a = ...]</i>	<i>Tabella limiti</i>
A 1 - Di livello costante (livello di accelerazione complessiva ponderata in frequenza variabile entro un intervallo di ampiezza inferiore a 5 dB)	RMS	Prospetto III
A 2 - Di livello non costante (livello di accelerazione complessiva ponderata in frequenza variabile entro un intervallo di ampiezza superiore a 5 dB)	$a_{w,eq}$	Prospetto III
A 3 - Impulsive (rapido innalzamento e abbassamento del valore dell'accelerazione e oscillazioni)	$0,71 a_{pk}$	Prospetto V
A 4 - Prodotte da veicoli ferroviari nelle abitazioni	a'	Sperimentale

Limiti di riferimento

Tipologia ricettore	<i>Limite UNI 9614 – prospetto II / III</i>			<i>Limite UNI 9614 – prospetto V</i>		
	a_x [mm/s ²]	a_y [mm/s ²]	a_z (*) [mm/s ²]	a_x [mm/s ²]	a_y [mm/s ²]	a_z (*) [mm/s ²]
Aree critiche	3,6	3,6	3,6	3,6	3,6	5,0
Abitazioni (notte)	5,0	5,0	5,0	5,0	5,0	7,0
Abitazioni (giorno)	7,2	7,2	7,2	220	220	300
Uffici	14,4	14,4	14,4	460	460	640
Fabbriche	28,8	28,8	28,8	460	460	640

(*) Per postura non nota o variabile

Tipologia ricettore	<i>Limite UNI 9614 – veicoli ferroviari</i>			<i>Curva Limite ISO 2631</i>
	a_x [mm/s ²]	a_y [mm/s ²]	a_z (*) [mm/s ²]	a [mm/s ²]
Aree critiche	---	---	---	ISO 2631 XYZ x1
Abitazioni (notte)	21,6	21,6	30,0	ISO 2631 XYZ x1,4
Abitazioni (giorno)				ISO 2631 XYZ x2÷4
Uffici	---	---	---	ISO 2631 XYZ x4
Fabbriche	---	---	---	ISO 2631 XYZ x8



**LINEA A.V./A.C. MILANO-VERONA - NODO DI BRESCIA
POTENZIAMENTO INFRASTRUTTURALE DELLO SCALO DI BRESCIA**

**Studio Vibrazionale
Report misure accelerometriche**

COMMESSA
IN1M

LOTTO
11

FASE/ENTE
D22

DOCUMENTO
RH IM 0004 002

REV.
A

FOGLIO
7 di 31

ALLEGATI

**Studio Vibrazionale
Report misure accelerometriche**

COMMESSA
IN1M

LOTTO
11

FASE/ENTE
D22

DOCUMENTO
RH IM 0004 002

REV.
A

FOGLIO
8 di 31

ALLEGATO 1

VIB_BRESCIA

***TABELLE RIEPILOGATIVE DEI LIVELLI GLOBALI DI ACCELERAZIONE
PONDERATA IN FREQUENZA
PER I SINGOLI TRANSITI***

Studio Vibrazionale
Report misure accelerometriche

 COMMESSA
IN1M

 LOTTO
11

 FASE/ENTE
D22

 DOCUMENTO
RH IM 0004 002

 REV.
A

 FOGLIO
9 di 31
LIVELLO EQUIVALENTE DELL'ACCELERAZIONE PONDERATA IN FREQUENZA (ASSI COMBINATI) PER I SINGOLI TRANSITI (dB)

TRANSITO					TERNA 1			TERNA 2			TERNA 3		
Evento	Data	Ora	Direzione	Tipo	ASSE X	ASSE Y	ASSE Z	ASSE X	ASSE Y	ASSE Z	ASSE X	ASSE Y	ASSE Z
1	07/10/2021	11:21:00	Ovest	ES*	71.7	72.3	63.0	55.9	58.8	61.0	57.2	60.1	59.0
2	07/10/2021	11:22:01	Est	Merci	64.2	68.0	58.8	50.1	53.6	55.0	50.1	53.0	53.4
3	07/10/2021	12:12:58	Est	ES*	66.2	68.8	59.0	53.2	55.0	58.9	52.0	54.9	57.0
4	07/10/2021	12:22:22	Est	ES*	62.0	64.8	60.3	54.3	57.0	58.3	55.5	57.8	57.9
5	07/10/2021	12:42:18	Ovest	Merci	67.6	68.5	57.2	49.4	52.4	53.3	49.3	52.4	52.6
6	07/10/2021	13:00:29	Ovest	ES*	76.2	79.0	70.1	59.9	64.5	65.1	55.3	58.5	58.1
7	07/10/2021	13:05:55	Ovest	ES*	71.6	72.2	62.8	56.3	58.8	61.0	57.1	60.0	58.9
8	07/10/2021	13:10:58	Ovest	Merci	77.0	78.5	66.5	57.2	63.2	59.7	55.3	58.5	58.1
9	07/10/2021	13:41:40	Ovest	ES*	72.0	74.3	67.2	59.3	61.8	62.7	62.1	63.5	64.6
10	07/10/2021	14:24:24	Est	ES*	71.0	73.4	64.1	56.8	59.3	60.7	55.9	59.8	59.3
11	07/10/2021	14:53:21	Ovest	ES*	69.8	69.0	61.0	54.6	56.6	59.0	55.3	58.0	57.1
12	07/10/2021	14:57:03	Ovest	Lis	58.3	63.2	52.6	44.1	47.6	48.2	44.0	45.8	47.0
13	07/10/2021	15:10:10	Est	ES*	66.2	68.5	59.0	53.3	55.1	57.0	51.9	54.8	56.4
14	07/10/2021	15:14:26	Ovest	ES*	70.1	72.9	66.5	58.8	60.6	62.2	61.7	62.8	64.3
15	07/10/2021	15:19:29	Est	ES*	65.8	69.2	63.0	57.9	59.6	61.2	56.3	60.0	60.3
16	07/10/2021	15:47:27	Ovest	Merci	67.5	68.3	57.1	49.3	52.5	53.4	49.2	52.5	52.7
17	07/10/2021	16:15:40	Est	Merci	63.7	67.8	58.3	49.8	53.1	54.9	51.1	52.8	53.7
18	07/10/2021	16:22:53	Est	ES*	73.5	75.7	66.5	58.6	61.9	63.2	58.1	62.0	61.6
19	07/10/2021	16:52:54	Est	ES*	66.5	68.5	60.0	54.0	56.1	57.2	53.5	56.4	56.8
20	07/10/2021	16:56:24	Est	Merci	71.1	75.2	63.7	54.3	59.1	59.2	54.9	57.1	57.6
21	07/10/2021	16:57:29	Ovest	ES*	70.4	71.0	63.5	56.8	59.4	60.6	57.6	59.1	59.4
22	07/10/2021	17:02:05	Est	Merci	70.1	75.8	64.6	53.7	57.8	58.1	54.2	56.2	57.1
23	07/10/2021	17:14:39	Est	ES*	62.1	64.8	60.6	54.2	57.0	58.4	55.4	57.9	58.0
24	07/10/2021	17:17:04	Est	Merci	63.4	68.0	58.7	49.2	53.7	54.9	50.0	52.9	53.5
25	07/10/2021	17:45:55	Ovest	ES*	70.9	73.6	66.9	59.4	61.4	62.6	62.0	63.1	64.5
26	07/10/2021	18:17:55	Est	ES*	68.1	70.9	62.7	56.1	59.2	59.9	55.8	58.9	58.5
27	07/10/2021	18:57:42	Est	ES*	63.6	66.5	62.0	56.9	58.5	59.7	54.6	58.7	59.3
28	07/10/2021	19:04:51	Ovest	ES*	70.2	68.5	66.6	58.7	60.5	62.1	61.6	62.7	64.2
29	07/10/2021	19:05:46	Est	REG	73.5	75.7	66.5	58.5	61.8	63.1	58.2	61.9	61.5
30	07/10/2021	19:17:33	Est	ES*	71.1	73.4	64.1	56.7	59.2	60.8	56.0	59.8	59.2
31	07/10/2021	19:18:31	Ovest	ES*	76.2	79.0	70.1	59.8	64.4	65.0	55.4	58.4	58.0
32	07/10/2021	19:20:01	Est	ES*	62.1	64.8	60.6	54.2	57.1	58.3	55.5	58.0	58.1
33	07/10/2021	20:02:16	Ovest	REG	71.5	73.7	66.9	59.4	61.3	62.5	62.1	63.2	64.4
34	07/10/2021	20:11:26	Est	Merci	63.8	67.8	58.5	49.7	53.0	55.0	51.0	52.7	53.8
35	07/10/2021	20:22:01	Est	ES*	71.0	73.4	64.2	56.9	59.3	60.8	55.8	59.7	59.2

**Studio Vibrazionale
Report misure accelerometriche**

COMMESSA
IN1M

LOTTO
11

FASE/ENTE
D22

DOCUMENTO
RH IM 0004 002

REV.
A

FOGLIO
10 di 31

LIVELLO EQUIVALENTE DELL'ACCELERAZIONE PONDERATA IN FREQUENZA (ASSI COMBINATI) PER I SINGOLI TRANSITI (dB)

TRANSITO					TERNA 1			TERNA 2			TERNA 3		
Evento	Data	Ora	Direzione	Tipo	ASSE X	ASSE Y	ASSE Z	ASSE X	ASSE Y	ASSE Z	ASSE X	ASSE Y	ASSE Z
36	07/10/2021	20:31:58	Ovest	Merci	67.5	68.4	56.7	49.4	52.4	53.5	49.3	52.6	52.6
37	07/10/2021	20:34:43	Ovest	REG	70.9	73.6	66.8	59.3	61.3	62.7	61.9	63.2	64.4
38	07/10/2021	20:35:07	Est	Merci	63.5	68.3	58.5	49.3	53.6	54.8	50.1	53.0	53.4
39	07/10/2021	20:47:47	Ovest	ES*	76.6	79.0	69.8	60.0	64.5	65.2	55.4	58.6	58.2
40	07/10/2021	20:57:22	Ovest	ES*	70.9	68.5	66.4	58.9	60.7	62.1	61.6	62.7	64.1

**Studio Vibrazionale
Report misure accelerometriche**

COMMESSA
IN1M

LOTTO
11

FASE/ENTE
D22

DOCUMENTO
RH IM 0004 002

REV.
A

FOGLIO
11 di 31

ALLEGATO 2

VIB_BRESCIA

LIVELLI DI ACCELERAZIONE PONDERATA IN FREQUENZA PER I SINGOLI TRANSITI

Studio Vibrazionale
Report misure accelerometriche

 COMMESSA
 IN1M

 LOTTO
 11

 FASE/ENTE
 D22

 DOCUMENTO
 RH IM 0004 002

 REV.
 A

 FOGLIO
 12 di 31

DETTAGLIO TRANSITI FERROVIARI

N° Evento	Data	Categoria Treno	Binario	Direzione	Composizione			Velocità [km/h]	Ora
					Motrici [n°]	Vagoni [n°]	Lunghezza [m]		
1	07/10/2021	ES*	3	Ovest	2	11	234	60	11:21:00
2	07/10/2021	Merci	1	Est	1	11	216	60	11:22:01
3	07/10/2021	ES*	2	Est	2	5	126	65	12:12:58
4	07/10/2021	ES*	2	Est	2	11	234	70	12:22:22
5	07/10/2021	Merci	2	Ovest	1	25	468	56	12:42:18
6	07/10/2021	ES*	3	Ovest	2	6	144	65	13:00:29
7	07/10/2021	ES*	3	Ovest	2	6	144	65	13:05:55
8	07/10/2021	Merci	3	Ovest	1	27	504	37	13:10:58
9	07/10/2021	ES*	3	Ovest	2	6	144	58	13:41:40
10	07/10/2021	ES*	2	Est	2	6	144	74	14:24:24
11	07/10/2021	ES*	3	Ovest	2	5	126	57	14:53:21
12	07/10/2021	Lis	1	Ovest	1		18	11	14:57:03
13	07/10/2021	ES*	2	Est	2	5	126	57	15:10:10
14	07/10/2021	ES*	2	Ovest	2	6	144	65	15:14:26
15	07/10/2021	ES*	2	Est	2	6	144	65	15:19:29
16	07/10/2021	Merci	3	Ovest	1	18	342	29	15:47:27
17	07/10/2021	Merci	1	Est	1	22	414	25	16:15:40
18	07/10/2021	ES*	2	Est	2	6	144	74	16:22:53
19	07/10/2021	ES*	2	Est	2	11	234	65	16:52:54
20	07/10/2021	Merci	1	Est	1	11	216	34	16:56:24
21	07/10/2021	ES*	3	Ovest	2	5	126	25	16:57:29
22	07/10/2021	Merci	1	Est	1	20	378	27	17:02:05
23	07/10/2021	ES*	2	Est	2	5	126	50	17:14:39
24	07/10/2021	Merci	1	Est	1	20	378	30	17:17:04
25	07/10/2021	ES*	3	Ovest	2	6	144	65	17:45:55
26	07/10/2021	ES*	2	Est	2	11	234	70	18:17:55
27	07/10/2021	ES*	2	Est	2	6	144	65	18:57:42
28	07/10/2021	ES*	2	Ovest	2	5	126	50	19:04:51
29	07/10/2021	REG	1	Est	1	4	90	32	19:05:46
30	07/10/2021	ES*	2	Est	2	5	126	57	19:17:33
31	07/10/2021	ES*	2	Ovest	2	6	144	65	19:18:31

**Studio Vibrazionale
 Report misure accelerometriche**

 COMMESSA
 IN1M

 LOTTO
 11

 FASE/ENTE
 D22

 DOCUMENTO
 RH IM 0004 002

 REV.
 A

 FOGLIO
 13 di 31

N° Evento	Data	Categoria Treno	Binario	Direzione	Composizione			Velocità [km/h]	Ora
					Motrici [n°]	Vagoni [n°]	Lunghezza [m]		
32	07/10/2021	ES*	2	Est	2	6	144	58	19:20:01
33	07/10/2021	REG	2	Ovest	1	2	54	28	20:02:16
34	07/10/2021	Merci	2	Est	1	27	504	25	20:11:26
35	07/10/2021	ES*	2	Est	2	6	144	58	20:22:01
36	07/10/2021	Merci	2	Ovest	1	19	360	31	20:31:58
37	07/10/2021	REG	3	Ovest	1	11	216	65	20:34:43
38	07/10/2021	Merci	1	Est	1	20	378	23	20:35:07
39	07/10/2021	ES*	2	Ovest	2	6	144	65	20:47:47
40	07/10/2021	ES*	2	Ovest	2	6	144	65	20:57:22

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 1 (DISTANZA 8 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN dB IN BANDE DI 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 1 ASSE X																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11	Ovest	ES*	33.1	28.5	31.0	32.6	31.0	37.3	33.1	32.0	33.0	50.0	44.6	42.2	35.2	35.1	37.0	42.8	54.1	64.0	60.7	70.3	71.7
2	07/10/2021	11:22:01	40	Est	Merci	33.7	29.0	26.7	32.7	29.3	31.5	32.0	31.3	32.8	34.3	37.1	34.7	34.2	34.0	39.0	41.9	57.0	47.1	55.2	62.4	64.2
3	07/10/2021	12:12:58	12	Est	ES*	31.0	26.7	26.3	30.0	27.0	35.5	30.2	30.8	34.5	41.5	45.0	37.1	31.3	37.5	38.9	42.0	51.6	47.4	55.5	65.5	66.2
4	07/10/2021	12:22:22	13	Est	ES*	32.0	27.7	28.2	31.0	30.1	36.0	34.1	40.0	41.8	43.9	45.0	42.4	40.9	41.4	43.6	41.5	48.8	45.6	52.2	60.6	62.0
5	07/10/2021	12:42:18	46	Ovest	Merci	32.3	25.4	27.5	31.2	26.9	31.1	30.7	35.0	32.7	33.6	37.4	36.9	37.5	32.7	34.0	38.3	47.2	46.6	55.0	67.2	67.6
6	07/10/2021	13:00:29	11	Ovest	ES*	33.8	30.6	25.0	28.6	30.1	30.6	30.7	32.3	33.7	48.8	48.2	50.6	34.2	38.8	42.7	48.8	53.2	66.7	70.9	73.9	76.2
7	07/10/2021	13:05:55	10	Ovest	ES*	33.1	28.5	29.2	32.6	29.4	37.3	33.1	32.0	33.0	48.2	44.6	42.2	35.2	35.1	38.9	42.8	54.1	63.4	60.7	70.3	71.6
8	07/10/2021	13:10:58	48	Ovest	Merci	30.8	27.0	28.8	29.2	28.3	31.9	33.7	35.1	33.6	36.0	35.8	36.3	36.4	40.2	42.8	47.2	51.0	58.1	70.6	75.8	77.0
9	07/10/2021	13:41:40	11	Ovest	ES*	29.3	31.9	28.4	31.9	28.8	30.8	31.8	30.7	35.2	49.0	50.2	47.8	35.3	37.1	41.5	43.9	48.2	67.2	62.3	69.2	72.0
10	07/10/2021	14:24:24	12	Est	ES*	29.7	20.6	26.5	30.6	32.2	32.2	34.4	30.9	33.5	43.7	46.0	49.0	34.1	38.3	42.0	42.1	48.0	60.3	63.6	69.5	71.0
11	07/10/2021	14:53:21	13	Ovest	ES*	27.1	31.6	26.8	31.2	28.3	35.5	32.7	32.6	32.3	47.4	44.9	42.0	34.7	34.0	38.1	42.5	50.7	61.2	57.8	68.7	69.8
12	07/10/2021	14:57:03	14	Ovest	Lis	29.3	26.2	25.7	29.7	28.2	31.0	30.5	28.4	27.8	29.0	34.0	30.8	30.1	29.7	34.4	36.5	38.4	40.3	50.2	57.3	58.3
13	07/10/2021	15:10:10	14	Est	ES*	29.0	26.7	26.3	30.0	28.6	35.5	30.2	30.8	34.5	41.5	43.1	37.1	31.3	37.5	38.9	40.1	51.6	47.4	55.5	65.5	66.2
14	07/10/2021	15:14:26	11	Ovest	ES*	30.7	32.2	27.5	32.5	29.8	32.2	32.3	31.8	35.3	49.2	49.8	47.6	34.8	34.3	40.2	41.8	46.9	66.2	60.8	66.5	70.1
15	07/10/2021	15:19:29	10	Est	ES*	31.7	26.0	25.2	28.6	29.2	31.8	34.3	35.2	33.3	45.2	47.5	48.6	33.5	40.3	43.4	45.7	48.1	57.6	58.0	63.6	65.8
16	07/10/2021	15:47:27	48	Ovest	Merci	32.3	25.4	27.5	31.2	26.9	31.1	30.7	33.9	32.7	33.6	37.4	36.9	37.5	32.7	33.8	38.3	47.2	46.6	54.6	67.2	67.5
17	07/10/2021	16:15:40	54	Est	Merci	33.4	28.6	27.6	32.2	28.8	32.5	31.5	33.1	35.6	39.0	40.7	37.5	34.8	35.8	38.6	42.5	42.3	45.0	54.2	63.0	63.7
18	07/10/2021	16:22:53	10	Est	ES*	34.8	26.8	26.2	30.9	31.5	32.8	36.1	34.3	32.2	44.6	47.5	50.0	35.5	44.5	45.9	49.1	51.5	61.3	66.2	72.1	73.5
19	07/10/2021	16:52:54	18	Est	ES*	34.3	27.8	29.0	33.3	29.7	33.4	30.7	32.9	33.1	45.4	45.8	43.7	36.5	37.5	37.6	41.0	45.7	53.6	57.0	65.5	66.5
20	07/10/2021	16:56:24	20	Est	Merci	33.8	28.3	25.0	32.4	29.4	32.2	32.4	36.8	36.2	36.8	39.7	38.3	42.1	40.3	41.5	43.7	46.8	50.5	61.0	70.5	71.1
21	07/10/2021	16:57:29	10	Ovest	ES*	33.6	26.1	31.1	30.5	29.5	38.1	33.0	33.3	33.7	49.3	45.7	43.9	32.7	36.7	36.3	42.9	56.7	61.5	57.7	69.2	70.4
22	07/10/2021	17:02:05	49	Est	Merci	32.3	27.8	29.1	33.1	29.2	33.1	31.2	31.4	31.3	32.9	35.2	33.8	30.7	34.0	38.0	41.1	45.6	54.7	64.8	68.3	70.1
23	07/10/2021	17:14:39	26	Est	ES*	33.1	27.7	28.2	32.7	30.1	36.0	34.1	40.0	41.8	43.9	46.3	42.4	40.9	41.4	43.6	41.5	48.8	45.6	52.2	60.6	62.1
24	07/10/2021	17:17:04	60	Est	Merci	33.7	29.1	26.7	32.7	29.3	31.5	30.5	31.3	32.8	34.3	37.1	34.7	34.2	33.8	38.2	41.9	45.4	47.1	55.2	62.4	63.4
25	07/10/2021	17:45:55	12	Ovest	ES*	28.8	29.4	26.9	31.9	32.5	32.8	31.6	32.5	34.9	49.2	49.7	47.9	35.0	37.2	40.1	42.8	47.5	66.5	60.7	67.9	70.9
26	07/10/2021	18:17:55	16	Est	ES*	33.2	28.3	29.9	31.1	30.4	32.4	30.8	32.2	33.2	46.3	47.7	45.1	36.1	40.2	41.3	49.2	47.6	57.8	60.6	66.5	68.1
27	07/10/2021	18:57:42	12	Est	ES*	30.2	28.5	27.8	31.5	28.2	31.3	33.0	35.5	34.3	45.0	46.7	47.6	33.2	38.9	40.9	43.7	48.8	54.5	55.6	61.4	63.6
28	07/10/2021	19:04:51	9	Ovest	ES*	30.7	33.0	27.5	32.5	31.0	32.2	32.3	31.8	35.3	49.2	49.8	47.6	36.0	34.3	40.2	41.8	46.9	66.2	62.0	66.5	70.2
29	07/10/2021	19:05:46	14	Est	REG	36.0	26.8	26.2	30.9	33.0	32.8	36.1	34.3	32.2	44.6	47.5	50.0	35.5	46.0	45.9	49.1	51.5	61.3	66.2	72.1	73.5
30	07/10/2021	19:17:33	10	Est	ES*	29.7	22.0	27.0	30.6	32.2	32.2	34.4	30.9	35.0	43.7	46.0	49.0	34.1	38.3	42.0	42.1	48.0	61.3	63.6	69.5	71.1
31	07/10/2021	19:18:31	12	Ovest	ES*	35.0	30.6	25.0	28.6	30.1	30.6	32.0	32.3	33.7	48.8	48.2	50.6	34.2	40.0	42.7	49.0	53.2	66.7	70.9	73.9	76.2

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 1 (DISTANZA 8 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN dB IN BANDE DI 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 1 ASSE X																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
32	07/10/2021	19:20:01	10	Est	ES*	33.1	27.7	28.2	32.7	30.1	36.0	34.1	40.0	41.8	43.9	46.3	42.4	40.9	41.4	43.6	41.5	48.8	45.6	52.2	60.6	62.1
33	07/10/2021	20:02:16	10	Ovest	REG	28.8	29.4	26.9	31.9	32.5	35.0	31.6	33.0	34.9	49.2	49.7	50.0	35.0	37.2	40.1	42.8	47.5	68.0	60.7	67.9	71.5
34	07/10/2021	20:11:26	42	Est	Merci	33.4	33.0	27.6	32.2	28.8	33.0	31.5	33.1	35.6	39.0	40.7	37.5	34.8	35.8	38.6	42.5	42.3	45.0	54.2	63.0	63.8
35	07/10/2021	20:22:01	11	Est	ES*	29.7	22.0	26.5	30.6	32.2	32.2	34.4	32.0	33.5	43.7	46.0	51.0	34.1	38.3	42.0	42.1	48.0	60.3	63.6	69.5	71.0
36	07/10/2021	20:31:58	45	Ovest	Merci	32.3	25.4	27.5	31.2	26.9	31.1	30.7	33.9	32.7	33.6	37.4	36.9	37.5	32.7	33.8	38.3	47.2	46.6	54.6	67.2	67.5
37	07/10/2021	20:34:43	12	Ovest	REG	28.8	29.4	26.9	31.9	32.5	32.8	31.6	32.5	34.9	49.2	49.7	47.9	35.0	37.2	40.1	42.8	47.5	66.5	60.7	67.9	70.9
38	07/10/2021	20:35:07	60	Est	Merci	33.7	33.0	26.7	32.7	32.0	31.5	30.5	31.3	32.8	34.3	37.1	34.7	35.0	33.8	38.2	41.9	45.4	50.0	55.2	62.4	63.5
39	07/10/2021	20:47:47	10	Ovest	ES*	31.0	30.6	25.0	28.6	30.1	33.0	30.7	32.3	33.7	51.0	48.2	50.6	36.0	38.8	42.7	48.8	54.0	66.7	70.9	74.5	76.6
40	07/10/2021	20:57:22	9	Ovest	ES*	30.7	32.2	29.0	32.5	29.8	32.2	32.3	31.8	36.6	49.2	49.8	47.6	35.4	34.3	40.2	42.1	46.9	66.2	60.8	68.2	70.9

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 1 (DISTANZA 8 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 1 ASSE Y																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11	Ovest	ES*	37.8	28.3	34.0	36.5	31.3	38.0	32.7	34.3	33.2	44.8	42.6	44.6	34.1	34.0	36.6	41.4	53.1	64.0	63.4	70.8	72.3
2	07/10/2021	11:22:01	40	Est	Merci	39.4	32.1	30.9	36.9	34.4	35.3	34.3	33.4	36.0	37.0	40.5	36.7	35.4	35.8	38.4	42.4	50.8	51.4	59.8	67.1	68.0
3	07/10/2021	12:12:58	12	Est	ES*	36.1	29.3	29.2	38.4	30.7	36.4	32.7	33.0	33.3	39.5	44.9	39.9	32.1	40.5	39.1	42.8	53.3	49.2	59.8	68.0	68.8
4	07/10/2021	12:22:22	13	Est	ES*	40.2	29.4	33.4	37.3	31.2	39.2	39.6	40.7	43.5	45.9	48.8	45.1	43.0	43.3	43.3	40.5	51.9	49.7	56.2	63.1	64.8
5	07/10/2021	12:42:18	46	Ovest	Merci	36.5	29.9	31.0	35.3	33.0	33.6	32.0	34.2	33.6	34.3	41.6	37.9	36.0	31.1	33.0	37.5	49.9	48.8	58.5	67.8	68.5
6	07/10/2021	13:00:29	11	Ovest	ES*	38.4	29.3	30.4	37.1	32.3	36.4	35.2	34.9	33.3	42.5	46.5	46.4	34.8	39.2	41.2	49.6	56.4	71.8	75.1	74.9	79.0
7	07/10/2021	13:05:55	10	Ovest	ES*	37.8	28.3	32.0	36.5	31.3	36.5	32.7	34.3	33.2	44.8	42.6	44.6	34.1	36.2	36.6	41.4	53.1	63.5	63.4	70.8	72.2
8	07/10/2021	13:10:58	48	Ovest	Merci	36.2	28.3	29.6	36.3	30.3	36.8	34.5	36.1	37.3	38.0	40.2	37.6	37.2	39.9	41.5	45.5	51.2	60.5	71.2	77.6	78.5
9	07/10/2021	13:41:40	11	Ovest	ES*	35.6	24.7	26.5	34.1	29.9	35.2	35.0	34.8	34.2	45.6	49.4	46.7	35.0	39.3	38.8	43.6	50.9	71.2	65.3	69.9	74.3
10	07/10/2021	14:24:24	12	Est	ES*	35.9	31.0	30.0	35.9	33.5	37.0	36.9	30.2	34.3	40.4	44.6	46.1	32.3	38.2	42.4	45.0	51.6	61.2	68.7	71.1	73.4
11	07/10/2021	14:53:21	13	Ovest	ES*	33.5	30.7	27.3	34.2	26.7	34.3	30.7	30.2	32.5	46.0	44.6	44.3	33.6	35.2	35.0	40.2	44.8	60.4	59.7	67.7	69.0
12	07/10/2021	14:57:03	14	Ovest	Lis	32.1	24.3	29.4	35.5	30.1	34.0	31.9	29.7	28.7	32.4	39.3	34.0	29.1	28.6	33.6	36.3	41.0	44.5	55.5	62.2	63.2
13	07/10/2021	15:10:10	14	Est	ES*	33.6	29.3	29.2	37.4	30.7	35.9	32.7	32.2	33.3	38.4	44.9	39.9	30.9	40.5	39.1	42.8	53.3	49.2	59.8	67.5	68.5
14	07/10/2021	15:14:26	11	Ovest	ES*	34.3	30.2	28.3	35.5	29.0	34.5	35.4	36.4	35.7	45.4	48.5	46.1	34.3	36.6	38.3	42.9	49.4	70.4	63.6	67.8	72.9
15	07/10/2021	15:19:29	10	Est	ES*	37.2	26.8	28.0	36.2	29.9	34.8	34.2	35.9	34.8	45.3	44.9	41.8	30.9	39.7	43.5	46.6	53.1	59.4	60.6	67.7	69.2
16	07/10/2021	15:47:27	48	Ovest	Merci	36.5	28.7	28.9	35.3	29.4	33.6	32.0	34.2	33.6	34.3	41.6	37.9	36.0	31.1	32.7	37.5	49.9	48.8	57.1	67.8	68.3
17	07/10/2021	16:15:40	54	Est	Merci	37.1	28.8	28.9	35.6	30.9	35.2	33.5	35.5	37.7	39.5	43.5	38.7	36.5	38.6	38.5	42.3	46.0	49.5	58.6	67.0	67.8
18	07/10/2021	16:22:53	10	Est	ES*	38.3	33.5	29.7	35.2	31.7	35.4	34.3	34.8	33.5	42.9	47.8	47.9	34.2	44.9	45.5	51.1	55.1	63.4	67.7	74.5	75.7
19	07/10/2021	16:52:54	18	Est	ES*	37.8	29.3	32.9	36.9	30.4	36.0	32.7	35.4	34.5	41.8	47.1	46.9	34.8	38.2	37.2	40.4	48.3	54.1	59.9	67.4	68.5
20	07/10/2021	16:56:24	20	Est	Merci	37.4	29.9	27.3	36.9	29.5	35.9	33.7	39.1	40.3	38.3	40.0	40.9	43.4	41.4	43.2	43.4	50.6	54.9	65.3	74.6	75.2
21	07/10/2021	16:57:29	10	Ovest	ES*	38.2	30.5	30.4	34.5	28.4	35.3	32.6	29.6	31.4	46.2	47.6	43.0	30.5	34.7	32.9	41.6	54.7	61.6	61.9	69.6	71.0
22	07/10/2021	17:02:05	49	Est	Merci	36.7	29.6	31.3	36.7	31.3	35.4	34.3	33.5	33.3	36.1	38.6	36.4	31.3	34.4	38.8	42.0	49.9	59.2	70.8	74.0	75.8
23	07/10/2021	17:14:39	26	Est	ES*	38.6	29.4	32.5	36.3	31.2	39.2	39.6	40.7	42.9	45.9	48.8	45.1	42.7	43.3	43.3	40.5	51.9	49.7	56.2	63.1	64.8
24	07/10/2021	17:17:04	60	Est	Merci	38.2	31.1	30.9	36.9	31.2	35.3	34.3	33.4	35.0	35.0	40.5	36.7	35.4	34.8	38.4	42.4	50.8	51.4	59.8	67.1	68.0
25	07/10/2021	17:45:55	12	Ovest	ES*	36.2	32.6	31.5	36.0	29.2	34.1	35.6	34.8	34.3	45.1	48.6	45.8	34.5	38.4	37.1	42.7	49.9	70.2	63.8	69.8	73.6
26	07/10/2021	18:17:55	16	Est	ES*	36.9	26.1	29.0	36.5	29.7	35.7	30.9	35.4	34.0	41.5	48.4	46.7	35.7	41.3	39.4	50.2	50.6	57.6	64.6	69.2	70.9
27	07/10/2021	18:57:42	12	Est	ES*	34.7	29.2	31.1	35.6	33.0	36.3	35.1	36.2	37.7	45.1	44.7	41.9	32.5	38.1	42.6	43.7	53.2	57.0	58.0	64.8	66.5
28	07/10/2021	19:04:51	9	Ovest	ES*	33.6	29.3	29.2	37.4	30.7	35.9	32.7	33.6	33.3	38.4	44.9	39.9	30.9	40.5	39.1	42.8	53.3	49.2	59.8	67.5	68.5
29	07/10/2021	19:05:46	14	Est	REG	38.3	38.4	29.7	35.2	31.7	35.4	38.4	36.0	35.9	42.9	47.8	47.9	34.2	44.9	45.5	51.1	55.1	63.4	67.7	74.5	75.7
30	07/10/2021	19:17:33	10	Est	ES*	35.9	31.0	31.0	35.9	33.5	37.0	38.4	32.0	34.3	40.4	44.6	46.1	32.3	40.0	42.4	45.0	51.6	61.2	68.7	71.1	73.4
31	07/10/2021	19:18:31	12	Ovest	ES*	39.0	29.3	30.4	37.1	32.3	37.0	35.2	34.9	33.3	42.5	46.5	46.4	34.8	39.2	41.2	51.0	56.4	71.8	75.1	74.9	79.0

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 1 (DISTANZA 8 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 1 ASSE Y																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
32	07/10/2021	19:20:01	10	Est	ES*	40.0	29.4	32.5	36.3	33.0	39.2	39.6	40.7	42.9	45.9	48.8	46.0	42.7	43.3	43.3	40.5	51.9	49.7	56.2	63.1	64.8
33	07/10/2021	20:02:16	10	Ovest	REG	36.2	34.0	31.5	36.0	32.0	34.1	35.6	34.8	34.3	45.1	48.6	45.8	34.5	38.4	37.1	44.0	49.9	70.2	63.8	70.0	73.7
34	07/10/2021	20:11:26	42	Est	Merci	37.1	33.0	28.9	35.6	30.9	35.2	33.5	35.5	37.7	39.5	43.5	38.7	36.5	38.6	38.5	42.3	46.0	49.5	58.6	67.0	67.8
35	07/10/2021	20:22:01	11	Est	ES*	35.9	31.0	30.0	35.9	33.5	37.0	36.9	30.2	34.3	40.4	44.6	46.1	32.3	38.2	42.4	45.0	51.6	61.2	68.7	71.1	73.4
36	07/10/2021	20:31:58	45	Ovest	Merci	36.5	28.7	28.9	35.3	34.0	33.6	35.0	34.2	33.6	34.3	41.6	37.9	36.0	31.1	33.0	37.5	49.9	50.1	57.1	67.8	68.4
37	07/10/2021	20:34:43	12	Ovest	REG	36.2	32.6	31.5	36.0	29.2	34.1	35.6	34.8	34.3	45.1	48.6	45.8	34.5	38.4	37.1	42.7	49.9	70.2	63.8	69.8	73.6
38	07/10/2021	20:35:07	60	Est	Merci	41.0	31.1	30.9	36.9	32.0	35.3	34.3	33.4	35.0	37.0	40.5	36.7	35.4	34.8	38.4	42.4	50.8	51.4	61.1	67.1	68.3
39	07/10/2021	20:47:47	10	Ovest	ES*	38.4	29.3	30.4	38.0	32.3	37.0	35.2	34.9	33.3	42.5	46.5	46.0	34.8	39.2	41.2	49.6	56.4	71.8	75.1	74.9	79.0
40	07/10/2021	20:57:22	9	Ovest	ES*	33.6	29.3	31.1	37.1	33.1	36.4	32.7	32.2	33.3	38.4	44.9	39.9	30.9	41.5	39.1	42.8	53.3	51.1	59.8	67.5	68.5

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 1 (DISTANZA 8 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 1 ASSE Z																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11	Ovest	ES*	26.9	29.0	22.2	28.4	24.1	32.2	27.4	27.5	32.1	46.7	46.5	51.1	39.0	42.1	43.7	49.5	54.1	58.7	54.8	55.0	63.0
2	07/10/2021	11:22:01	40	Est	Merci	31.1	24.2	25.2	32.1	24.0	27.7	25.9	30.2	33.0	34.6	38.4	38.3	42.1	41.1	44.5	47.6	52.3	49.5	51.2	53.6	58.8
3	07/10/2021	12:12:58	12	Est	ES*	29.5	22.4	24.8	28.6	25.1	27.6	26.2	31.1	35.3	44.2	49.8	43.6	39.3	43.6	43.0	45.4	54.6	48.7	48.6	50.6	59.0
4	07/10/2021	12:22:22	13	Est	ES*	31.8	23.7	25.9	27.9	25.2	28.2	30.5	39.5	39.5	45.4	53.1	51.6	49.4	48.4	48.8	46.7	52.9	48.3	47.2	48.1	60.3
5	07/10/2021	12:42:18	46	Ovest	Merci	29.1	25.0	22.8	27.0	24.2	27.6	30.9	35.7	39.0	35.8	44.0	42.7	43.1	38.2	39.3	42.5	49.8	46.1	50.6	52.0	57.2
6	07/10/2021	13:00:29	11	Ovest	ES*	29.9	27.8	25.3	26.9	22.5	27.2	33.5	25.2	33.6	48.1	51.8	52.5	39.3	45.8	47.2	54.6	56.0	65.3	66.7	59.6	70.1
7	07/10/2021	13:05:55	10	Ovest	ES*	26.9	27.2	22.2	28.4	24.1	31.6	27.4	27.5	32.1	46.7	46.5	49.8	39.0	42.1	43.7	47.7	54.1	58.7	54.8	54.8	62.8
8	07/10/2021	13:10:58	48	Ovest	Merci	26.5	24.4	27.2	27.8	24.5	28.5	35.3	38.2	35.5	37.1	38.5	41.2	44.1	46.7	49.6	51.8	52.4	55.8	62.4	62.7	66.5
9	07/10/2021	13:41:40	11	Ovest	ES*	27.8	28.6	25.6	28.0	22.7	28.7	32.7	30.3	34.8	44.3	52.6	51.2	40.2	45.9	47.2	50.1	49.7	65.5	58.5	55.2	67.2
10	07/10/2021	14:24:24	12	Est	ES*	28.8	24.4	23.3	28.3	24.1	26.5	27.1	26.7	31.9	48.8	52.9	53.7	40.5	45.6	48.9	49.4	53.2	58.2	57.8	55.7	64.1
11	07/10/2021	14:53:21	13	Ovest	ES*	29.8	28.4	24.5	25.6	22.4	29.5	26.5	26.7	31.6	44.9	46.9	49.1	39.5	42.0	44.4	45.7	47.9	57.2	53.0	53.1	61.0
12	07/10/2021	14:57:03	14	Ovest	Lis	23.4	23.0	20.5	27.2	22.9	26.8	25.3	25.8	25.0	29.1	33.9	31.2	32.3	33.1	38.3	40.2	44.0	42.2	46.4	48.3	52.6
13	07/10/2021	15:10:10	14	Est	ES*	26.4	22.4	24.8	28.6	23.1	27.6	26.2	28.3	35.3	45.7	49.8	43.6	39.3	43.6	43.0	45.4	54.6	48.7	48.6	50.6	59.0
14	07/10/2021	15:14:26	11	Ovest	ES*	26.9	31.6	24.7	27.5	22.9	28.4	33.1	28.4	35.1	44.7	52.1	51.4	39.1	44.6	45.7	48.5	47.5	64.9	57.3	53.4	66.5
15	07/10/2021	15:19:29	10	Est	ES*	27.0	25.4	25.6	26.6	23.8	27.2	26.1	28.5	35.1	47.5	51.8	54.4	38.8	45.6	50.6	51.2	54.7	58.1	51.6	51.7	63.0
16	07/10/2021	15:47:27	48	Ovest	Merci	29.1	23.1	22.8	27.0	24.2	27.6	30.9	35.7	35.7	35.8	40.1	42.7	43.1	38.2	39.3	42.5	49.8	46.1	50.6	52.0	57.1
17	07/10/2021	16:15:40	54	Est	Merci	30.8	24.7	23.7	28.6	24.6	28.6	30.2	33.7	41.8	45.6	46.3	43.2	42.7	44.7	44.9	47.7	48.1	47.4	48.5	53.7	58.3
18	07/10/2021	16:22:53	10	Est	ES*	31.7	26.9	23.9	28.6	23.7	28.1	28.2	30.5	32.5	49.6	53.8	55.0	41.7	50.7	51.7	54.1	58.3	60.0	59.4	58.4	66.5
19	07/10/2021	16:52:54	18	Est	ES*	33.0	26.0	26.3	30.6	24.4	28.0	25.4	29.4	35.4	46.3	51.8	51.2	42.6	42.6	45.0	46.2	49.5	53.6	50.0	51.6	60.0
20	07/10/2021	16:56:24	20	Est	Merci	29.5	24.6	21.9	29.5	23.2	28.1	28.2	40.5	37.7	42.2	46.3	45.3	49.2	46.7	48.8	49.6	53.4	53.0	56.9	60.1	63.7
21	07/10/2021	16:57:29	10	Ovest	ES*	29.3	28.3	25.1	28.1	24.5	31.1	27.2	27.8	32.1	48.5	47.0	47.1	37.0	42.1	44.0	49.9	56.6	59.1	54.5	55.4	63.5
22	07/10/2021	17:02:05	49	Est	Merci	28.6	23.7	25.2	29.4	24.5	27.9	26.4	27.9	32.0	35.6	37.5	36.5	36.8	38.4	43.8	47.0	52.0	56.6	60.2	60.4	64.6
23	07/10/2021	17:14:39	26	Est	ES*	31.8	23.7	25.9	27.9	25.2	28.2	30.5	42.2	39.5	50.2	53.1	51.6	49.4	48.4	48.8	46.7	52.9	48.3	47.2	48.1	60.6
24	07/10/2021	17:17:04	60	Est	Merci	30.9	24.2	25.2	28.9	24.0	27.7	25.9	30.2	32.4	34.6	38.4	38.3	41.1	41.1	44.5	47.6	52.3	49.5	50.7	53.6	58.7
25	07/10/2021	17:45:55	12	Ovest	ES*	27.8	31.1	24.8	28.6	23.0	28.3	33.5	30.2	33.6	44.1	52.0	51.4	39.0	45.6	46.3	48.1	48.8	65.4	57.9	54.0	66.9
26	07/10/2021	18:17:55	16	Est	ES*	28.9	22.6	20.4	28.1	24.1	28.1	24.7	28.9	33.7	43.1	52.6	52.6	41.1	45.7	47.2	55.3	53.5	55.2	54.4	53.5	62.7
27	07/10/2021	18:57:42	12	Est	ES*	26.3	23.6	25.7	28.5	25.8	28.0	27.0	32.0	34.2	46.8	53.5	53.3	38.6	45.1	47.6	47.7	53.0	57.2	49.2	50.2	62.0
28	07/10/2021	19:04:51	9	Ovest	ES*	26.9	32.0	24.7	27.5	22.0	28.4	33.1	28.4	35.1	47.0	52.1	51.4	42.0	44.6	45.7	48.5	51.0	64.9	57.3	54.1	66.6
29	07/10/2021	19:05:46	14	Est	REG	31.7	27.3	23.9	28.6	23.7	28.1	28.2	30.5	32.5	49.6	53.8	55.0	41.7	50.7	51.7	54.1	58.3	60.0	59.4	58.4	66.5
30	07/10/2021	19:17:33	10	Est	ES*	28.8	24.4	23.3	28.3	24.1	26.5	27.1	26.7	31.9	48.8	52.9	53.7	40.5	45.6	48.9	49.4	53.2	58.2	57.8	55.7	64.1
31	07/10/2021	19:18:31	12	Ovest	ES*	29.9	27.8	25.3	26.9	22.5	27.2	33.5	25.2	33.6	48.1	51.8	52.5	39.3	45.8	48.0	54.6	56.0	65.3	66.7	59.6	70.1
32	07/10/2021	19:20:01	10	Est	ES*	31.8	23.7	25.9	27.9	25.2	28.2	30.5	44.0	39.5	50.2	53.1	51.6	49.4	48.4	48.8	46.7	52.9	48.3	47.2	48.1	60.6

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 1 (DISTANZA 8 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 1 ASSE Z																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
33	07/10/2021	20:02:16	10	Ovest	REG	27.8	31.1	24.8	28.6	23.0	28.3	33.5	30.2	33.6	44.1	52.0	51.4	39.0	45.6	46.3	49.0	48.8	65.4	57.9	54.0	66.9
34	07/10/2021	20:11:26	42	Est	Merci	30.8	24.7	23.7	28.6	24.6	28.6	30.2	33.7	41.8	45.6	46.3	43.2	42.7	44.7	44.9	47.7	48.1	47.4	48.5	53.7	58.5
35	07/10/2021	20:22:01	11	Est	ES*	32.0	27.3	23.9	28.6	23.7	28.1	28.2	30.5	31.9	48.8	52.9	53.7	40.5	45.6	48.9	49.4	53.2	58.2	57.8	55.7	64.2
36	07/10/2021	20:31:58	45	Ovest	Merci	29.1	25.0	22.8	27.0	25.0	27.6	30.9	35.7	35.7	35.8	40.1	42.7	45.0	38.2	39.3	42.5	49.8	46.1	50.6	52.0	56.7
37	07/10/2021	20:34:43	12	Ovest	REG	27.8	31.1	24.8	28.6	23.0	28.3	33.5	30.2	33.6	44.1	52.0	51.4	39.0	45.6	46.3	48.1	48.8	65.4	57.9	54.0	66.8
38	07/10/2021	20:35:07	60	Est	Merci	30.9	24.2	25.2	28.9	24.0	27.7	25.9	30.2	33.0	34.6	38.4	38.3	41.1	41.1	44.5	48.0	52.3	49.5	50.7	53.6	58.5
39	07/10/2021	20:47:47	10	Ovest	ES*	29.9	27.8	25.3	26.9	22.5	27.2	33.5	25.2	33.6	48.1	51.8	52.5	39.3	45.8	47.2	54.6	56.0	65.3	66.7	59.6	69.8
40	07/10/2021	20:57:22	9	Ovest	ES*	26.9	31.6	24.7	27.5	22.9	28.4	33.1	28.4	35.1	44.7	52.1	51.4	39.1	44.6	45.7	48.5	47.5	64.9	57.3	53.4	66.4

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 2 (Distanza 14 m da asse binario) per i singoli transiti ferroviari

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 2 ASSE X																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11	Ovest	ES*	27.9	25.3	28.6	22.0	26.3	31.7	28.6	29.5	30.1	45.0	44.0	42.0	36.7	39.2	38.6	38.9	47.1	53.2	43.4	46.0	55.9
2	07/10/2021	11:22:01	40	Est	Merci	26.3	25.3	24.1	26.1	23.5	25.5	25.0	28.4	30.5	31.9	33.2	33.2	35.5	35.0	37.5	39.1	41.7	39.9	39.7	42.9	50.1
3	07/10/2021	12:12:58	12	Est	ES*	24.9	26.2	24.1	26.9	25.8	28.6	24.9	28.4	32.9	39.3	42.1	39.8	33.1	36.0	38.3	40.1	50.2	44.2	37.8	41.2	53.2
4	07/10/2021	12:22:22	13	Est	ES*	24.0	20.2	22.0	25.2	26.8	30.8	32.6	39.5	42.4	44.0	45.3	41.9	43.3	44.2	42.4	39.8	47.5	42.1	36.1	37.4	54.3
5	07/10/2021	12:42:18	46	Ovest	Merci	27.1	26.5	26.5	26.7	27.0	27.0	28.1	32.4	32.0	33.9	34.7	37.0	39.2	35.0	34.4	35.3	44.2	38.6	37.3	40.8	49.4
6	07/10/2021	13:00:29	11	Ovest	ES*	25.8	26.0	20.3	25.5	26.9	24.9	28.5	28.3	30.9	46.9	46.8	49.7	35.7	41.7	43.2	45.9	48.0	56.0	51.1	50.4	59.9
7	07/10/2021	13:05:55	10	Ovest	ES*	27.9	25.3	28.6	23.3	26.3	31.7	28.6	29.5	30.1	45.0	44.0	43.3	36.7	39.2	38.6	38.9	47.1	53.2	43.4	45.7	56.3
8	07/10/2021	13:10:58	48	Ovest	Merci	24.2	25.7	25.3	26.8	24.3	25.9	29.8	34.3	32.7	33.2	33.4	36.4	39.1	41.7	42.6	42.5	45.8	45.4	48.7	54.7	57.2
9	07/10/2021	13:41:40	11	Ovest	ES*	24.2	24.6	25.6	22.9	25.6	24.8	25.0	28.0	32.1	47.7	48.1	46.4	34.4	40.1	43.1	42.3	41.1	57.3	47.4	44.0	59.3
10	07/10/2021	14:24:24	12	Est	ES*	25.5	28.8	25.6	25.8	26.2	26.2	30.9	30.4	29.5	41.5	47.8	49.8	35.5	39.2	43.1	41.4	46.2	51.3	46.8	45.2	56.8
11	07/10/2021	14:53:21	13	Ovest	ES*	26.6	27.2	26.7	24.9	24.9	31.7	27.7	27.8	28.5	43.7	43.9	43.2	36.7	37.0	38.1	38.0	41.7	51.7	41.8	41.3	54.6
12	07/10/2021	14:57:03	14	Ovest	Lis	27.0	20.9	25.0	24.5	20.8	25.9	23.4	23.3	23.4	23.0	25.4	25.8	31.8	28.5	33.2	33.6	35.6	33.1	35.7	37.9	44.1
13	07/10/2021	15:10:10	14	Est	ES*	24.9	26.2	24.1	26.9	25.8	28.6	24.9	28.4	32.9	39.3	42.1	39.8	33.1	36.0	38.3	40.1	50.2	44.2	37.8	41.2	53.3
14	07/10/2021	15:14:26	11	Ovest	ES*	26.9	22.9	22.3	23.3	25.0	27.9	30.3	29.4	32.0	47.7	47.4	46.9	34.8	38.0	42.2	41.7	40.9	56.8	47.0	40.8	58.8
15	07/10/2021	15:19:29	10	Est	ES*	26.8	19.8	18.9	22.1	26.6	23.5	30.8	33.2	29.7	42.9	49.5	48.9	35.1	40.6	45.1	42.9	45.7	54.5	44.1	41.4	57.9
16	07/10/2021	15:47:27	48	Ovest	Merci	27.1	26.5	26.5	26.7	27.0	27.0	28.1	32.4	32.0	33.9	34.7	37.0	39.2	35.0	34.4	35.3	44.2	38.6	37.3	40.8	49.3
17	07/10/2021	16:15:40	54	Est	Merci	25.5	25.0	24.8	25.0	25.6	26.2	29.8	31.1	36.1	40.8	38.9	37.5	36.6	36.6	37.3	39.8	39.6	37.9	37.9	41.9	49.8
18	07/10/2021	16:22:53	10	Est	ES*	26.2	25.1	23.6	23.1	22.6	26.9	31.3	32.1	29.0	42.0	48.4	50.9	35.8	43.6	45.3	46.9	48.1	52.6	49.4	48.0	58.6
19	07/10/2021	16:52:54	18	Est	ES*	23.9	27.5	26.3	26.8	27.5	28.6	27.1	29.2	31.4	43.8	45.1	44.7	39.0	38.5	36.5	39.0	43.2	49.2	40.9	41.6	54.0
20	07/10/2021	16:56:24	20	Est	Merci	25.4	25.0	23.7	25.8	26.8	25.5	26.9	34.9	35.1	37.7	40.6	38.1	43.9	40.8	41.3	41.0	46.3	43.5	45.8	48.5	54.3
21	07/10/2021	16:57:29	10	Ovest	ES*	24.1	26.7	27.8	27.3	23.5	33.6	27.8	28.3	29.5	46.2	46.1	44.7	33.5	39.0	37.1	39.5	51.4	52.2	41.0	43.8	56.8
22	07/10/2021	17:02:05	49	Est	Merci	24.5	24.6	24.1	25.9	24.2	23.9	25.3	25.7	27.0	28.9	30.2	31.0	31.7	33.5	36.3	38.3	43.0	46.7	48.9	48.5	53.7
23	07/10/2021	17:14:39	26	Est	ES*	24.0	20.2	22.0	25.2	26.8	30.8	32.6	39.5	42.4	44.0	45.3	41.9	43.3	44.2	42.4	39.8	47.5	42.1	36.1	37.4	54.2
24	07/10/2021	17:17:04	60	Est	Merci	26.3	25.3	24.1	26.1	23.5	25.5	25.0	28.4	30.5	31.9	33.2	33.2	35.5	35.0	37.5	39.1	41.7	39.9	39.7	42.9	49.2
25	07/10/2021	17:45:55	12	Ovest	ES*	29.5	24.3	27.3	27.9	24.5	25.5	27.3	29.6	32.0	47.6	48.0	47.2	35.1	39.1	41.6	42.0	44.1	57.3	47.7	42.7	59.4
26	07/10/2021	18:17:55	16	Est	ES*	23.7	25.4	24.3	25.0	25.1	28.9	27.4	28.6	31.0	45.2	45.6	46.8	38.0	42.6	41.3	46.0	44.1	51.2	44.6	42.9	56.1
27	07/10/2021	18:57:42	12	Est	ES*	26.7	24.0	23.9	19.0	20.4	25.0	28.1	31.5	31.6	42.5	48.3	47.3	34.6	42.6	43.8	41.6	43.8	53.7	42.2	39.9	56.9
28	07/10/2021	19:04:51	9	Ovest	ES*	26.9	22.9	22.3	23.3	25.0	27.9	30.3	29.4	32.0	47.7	47.4	46.9	34.8	38.0	42.2	41.7	40.9	56.8	47.0	40.8	58.7
29	07/10/2021	19:05:46	14	Est	REG	26.2	25.1	23.6	23.1	22.6	26.9	31.3	32.1	29.0	42.0	48.4	50.9	35.8	43.6	45.3	46.9	48.1	52.6	49.4	48.0	58.5
30	07/10/2021	19:17:33	10	Est	ES*	25.5	28.8	25.6	25.8	26.2	26.2	30.9	30.4	29.5	41.5	47.8	49.8	35.5	39.2	43.1	41.4	46.2	51.3	46.8	45.2	56.7
31	07/10/2021	19:18:31	12	Ovest	ES*	25.8	26.0	20.3	25.5	26.9	24.9	28.5	28.3	30.9	46.9	46.8	49.7	35.7	41.7	43.2	45.9	48.0	56.0	51.1	50.4	59.8

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 2 (Distanza 14 m da asse binario) per i singoli transiti ferroviari

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 2 ASSE X																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
32	07/10/2021	19:20:01	10	Est	ES*	24.0	20.2	22.0	25.2	26.8	30.8	32.6	39.5	42.4	44.0	45.3	41.9	43.3	44.2	42.4	39.8	47.5	42.1	36.1	37.4	54.2
33	07/10/2021	20:02:16	10	Ovest	REG	29.5	24.3	27.3	27.9	24.5	25.5	27.3	29.6	32.0	47.6	48.0	47.2	35.1	39.1	41.6	42.0	44.1	57.3	47.7	42.7	59.4
34	07/10/2021	20:11:26	42	Est	Merci	25.5	25.0	24.8	25.0	25.6	26.2	29.8	31.1	36.1	40.8	38.9	37.5	36.6	36.6	37.3	39.8	39.6	37.9	37.9	41.9	49.7
35	07/10/2021	20:22:01	11	Est	ES*	25.5	28.8	25.6	25.8	26.2	26.2	30.9	30.4	29.5	41.5	47.8	49.8	35.5	39.2	43.1	41.4	46.2	51.3	46.8	45.2	56.9
36	07/10/2021	20:31:58	45	Ovest	Merci	27.1	26.5	26.5	26.7	27.0	27.0	28.1	32.4	32.0	33.9	34.7	37.0	39.2	35.0	34.4	35.3	44.2	38.6	37.3	40.8	49.4
37	07/10/2021	20:34:43	12	Ovest	REG	29.5	24.3	27.3	27.9	24.5	25.5	27.3	29.6	32.0	47.6	48.0	47.2	35.1	39.1	41.6	42.0	44.1	57.3	47.7	42.7	59.3
38	07/10/2021	20:35:07	60	Est	Merci	26.3	25.3	24.1	26.1	23.5	25.5	25.0	28.4	30.5	31.9	33.2	33.2	35.5	35.0	37.5	39.1	41.7	39.9	39.7	42.9	49.3
39	07/10/2021	20:47:47	10	Ovest	ES*	25.8	26.0	20.3	25.5	26.9	24.9	28.5	28.3	30.9	46.9	46.8	49.7	35.7	41.7	43.2	45.9	48.0	56.0	51.1	50.4	60.0
40	07/10/2021	20:57:22	9	Ovest	ES*	26.9	22.9	22.3	23.3	25.0	27.9	30.3	29.4	32.0	47.7	47.4	46.9	34.8	38.0	42.2	41.7	40.9	56.8	47.0	40.8	58.9

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 2 (Distanza 14 m da asse binario) per i singoli transiti ferroviari

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI - VALORI RIFERITI ALLA TERNA 2 ASSE Y																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11	Ovest	ES*	25.9	28.0	22.1	25.5	22.3	25.5	25.1	27.1	28.9	47.3	42.7	47.6	35.1	41.1	43.1	42.6	51.0	54.0	47.3	52.1	58.8
2	07/10/2021	11:22:01	40	Est	Merci	25.9	25.0	22.5	23.9	25.6	24.6	28.6	30.1	31.5	32.0	33.4	33.7	36.8	37.5	41.3	43.2	48.4	44.1	42.0	48.3	53.6
3	07/10/2021	12:12:58	12	Est	ES*	21.4	27.7	23.6	23.9	23.7	25.1	26.0	24.9	31.2	40.0	43.6	39.6	31.9	41.7	40.7	41.7	51.1	43.6	43.3	47.6	55.0
4	07/10/2021	12:22:22	13	Est	ES*	24.0	24.8	24.7	23.2	25.7	34.7	38.3	40.1	43.1	47.3	49.4	45.3	44.0	45.0	45.8	42.7	50.5	43.4	41.1	44.1	57.0
5	07/10/2021	12:42:18	46	Ovest	Merci	26.2	25.4	24.7	24.8	24.9	25.5	27.2	31.6	32.0	32.0	33.7	38.4	39.4	34.8	37.8	39.6	46.0	41.4	45.1	47.0	52.4
6	07/10/2021	13:00:29	11	Ovest	ES*	24.1	22.2	21.9	20.9	28.0	27.2	30.5	31.4	29.5	46.4	47.3	49.0	35.6	42.8	44.4	50.9	51.7	60.0	59.3	56.5	64.5
7	07/10/2021	13:05:55	10	Ovest	ES*	25.9	27.6	22.1	25.5	22.3	25.5	24.9	27.1	28.9	47.3	42.7	47.6	35.1	41.1	43.1	42.6	50.0	54.0	47.3	52.1	58.8
8	07/10/2021	13:10:58	48	Ovest	Merci	22.1	26.3	26.9	24.8	25.1	26.9	28.4	33.5	34.6	35.8	33.0	36.3	40.0	43.3	45.4	48.4	49.0	49.3	56.4	61.2	63.2
9	07/10/2021	13:41:40	11	Ovest	ES*	26.1	23.2	25.1	24.7	24.4	27.4	30.3	32.0	31.9	46.5	49.3	49.0	36.5	43.0	44.5	45.8	46.4	59.4	51.7	50.8	61.8
10	07/10/2021	14:24:24	12	Est	ES*	25.1	23.9	24.8	24.7	24.1	23.9	32.5	30.5	29.4	42.5	45.6	47.8	34.8	40.7	44.0	45.5	48.8	54.9	50.4	52.3	59.3
11	07/10/2021	14:53:21	13	Ovest	ES*	26.0	26.3	26.4	26.2	22.1	26.3	24.4	27.9	28.9	47.2	42.7	47.1	34.7	40.3	41.7	41.5	42.0	52.0	47.0	48.0	56.6
12	07/10/2021	14:57:03	14	Ovest	Lis	24.5	25.7	23.7	21.9	23.4	20.7	22.2	22.9	22.3	24.0	24.9	24.7	27.6	28.4	35.5	37.1	38.8	35.9	38.1	44.2	47.6
13	07/10/2021	15:10:10	14	Est	ES*	21.4	27.7	23.6	23.9	23.7	25.1	26.0	24.9	31.2	40.0	43.6	39.6	31.9	41.7	40.7	41.7	51.1	43.6	43.3	47.6	55.1
14	07/10/2021	15:14:26	11	Ovest	ES*	26.2	24.6	25.5	21.6	25.1	24.2	30.7	32.8	32.8	47.1	48.6	48.9	37.4	41.7	44.9	43.3	43.8	58.5	50.1	47.2	60.6
15	07/10/2021	15:19:29	10	Est	ES*	26.7	25.6	24.1	24.0	21.3	24.9	30.3	33.4	33.5	46.9	45.5	47.6	35.6	43.8	47.9	46.2	48.6	56.5	46.6	47.7	59.6
16	07/10/2021	15:47:27	48	Ovest	Merci	26.2	25.4	24.7	24.8	24.9	25.5	27.2	31.6	32.0	32.0	33.7	38.4	39.4	34.8	37.8	39.6	46.0	41.4	45.1	47.0	52.5
17	07/10/2021	16:15:40	54	Est	Merci	24.6	23.5	23.8	25.3	26.1	27.4	30.6	32.5	36.9	40.1	40.5	37.8	38.7	40.3	41.4	43.5	44.3	40.5	40.1	48.0	53.1
18	07/10/2021	16:22:53	10	Est	ES*	24.4	20.2	21.8	20.2	23.8	26.7	30.7	34.4	31.0	44.2	48.4	48.7	36.2	47.2	46.0	51.1	54.1	56.3	53.2	54.1	61.9
19	07/10/2021	16:52:54	18	Est	ES*	22.2	22.5	21.4	25.6	25.3	28.2	27.2	31.4	32.0	42.2	47.0	46.1	36.9	40.8	41.3	41.8	44.7	51.3	45.2	47.4	56.1
20	07/10/2021	16:56:24	20	Est	Merci	26.4	23.0	25.3	23.8	23.3	24.6	26.8	37.7	38.7	38.3	39.9	40.3	45.4	42.8	44.4	45.7	51.0	47.1	47.8	56.2	59.1
21	07/10/2021	16:57:29	10	Ovest	ES*	26.5	27.2	26.3	25.3	24.4	25.4	26.1	26.7	30.2	49.3	43.2	43.4	30.5	39.7	40.0	46.0	53.0	55.3	48.0	49.3	59.4
22	07/10/2021	17:02:05	49	Est	Merci	26.0	25.3	23.7	22.4	24.2	24.6	26.7	26.0	28.7	31.5	31.3	30.8	32.5	35.5	40.3	42.6	48.0	48.3	51.7	54.5	57.8
23	07/10/2021	17:14:39	26	Est	ES*	24.0	24.8	24.7	23.2	25.7	34.7	38.3	40.1	43.1	47.3	49.4	45.3	44.0	45.0	45.8	42.7	50.5	43.4	41.1	44.1	57.0
24	07/10/2021	17:17:04	60	Est	Merci	25.9	25.0	22.5	23.9	25.6	24.6	28.6	30.1	31.5	32.0	33.4	33.7	36.8	37.5	41.3	43.2	48.4	44.1	42.0	48.3	53.7
25	07/10/2021	17:45:55	12	Ovest	ES*	25.7	27.2	26.5	23.9	23.0	25.9	31.1	32.3	31.1	47.2	48.9	48.9	35.0	42.3	44.3	44.1	45.0	59.2	51.8	49.8	61.4
26	07/10/2021	18:17:55	16	Est	ES*	25.7	27.3	23.3	25.6	24.4	25.6	25.6	33.4	32.6	43.0	48.8	46.4	38.2	41.9	44.5	50.8	47.6	54.8	48.8	49.1	59.2
27	07/10/2021	18:57:42	12	Est	ES*	26.5	22.9	24.0	24.6	22.6	25.1	29.5	33.9	35.9	45.8	47.3	46.2	34.5	44.5	48.9	45.5	47.9	54.8	43.6	44.8	58.5
28	07/10/2021	19:04:51	9	Ovest	ES*	26.2	24.6	25.5	21.6	25.1	24.2	30.7	32.8	32.8	47.1	48.6	48.9	37.4	41.7	44.9	43.3	43.8	58.5	50.1	47.2	60.5
29	07/10/2021	19:05:46	14	Est	REG	24.4	20.2	21.8	20.2	23.8	26.7	30.7	34.4	31.0	44.2	48.4	48.7	36.2	47.2	46.0	51.1	54.1	56.3	53.2	54.1	61.8
30	07/10/2021	19:17:33	10	Est	ES*	25.1	23.9	24.8	24.7	24.1	23.9	32.5	30.5	29.4	42.5	45.6	47.8	34.8	40.7	44.0	45.5	48.8	54.9	50.4	52.3	59.2
31	07/10/2021	19:18:31	12	Ovest	ES*	24.1	22.2	21.9	20.9	28.0	27.2	30.5	31.4	29.5	46.4	47.3	49.0	35.6	42.8	44.4	50.9	51.7	60.0	59.3	56.5	64.4
32	07/10/2021	19:20:01	10	Est	ES*	24.0	24.8	24.7	23.2	25.7	34.7	38.3	40.1	43.1	47.3	49.4	45.3	44.0	45.0	45.8	42.7	50.5	43.4	41.1	44.1	57.1

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 2 (Distanza 14 m da asse binario) per i singoli transiti ferroviari

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 2 ASSE Y																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
33	07/10/2021	20:02:16	10	Ovest	REG	25.7	27.2	26.5	23.9	23.0	25.9	31.1	32.3	31.1	47.2	48.9	48.9	35.0	42.3	44.3	44.1	45.0	59.2	51.8	49.8	61.3
34	07/10/2021	20:11:26	42	Est	Merci	24.6	23.5	23.8	25.3	26.1	27.4	30.6	32.5	36.9	40.1	40.5	37.8	38.7	40.3	41.4	43.5	44.3	40.5	40.1	48.0	53.0
35	07/10/2021	20:22:01	11	Est	ES*	25.1	23.9	24.8	24.7	24.1	23.9	32.5	30.5	29.4	42.5	45.6	47.8	34.8	40.7	44.0	45.5	48.8	54.9	50.4	52.3	59.3
36	07/10/2021	20:31:58	45	Ovest	Merci	26.2	25.4	24.7	24.8	24.9	25.5	27.2	31.6	32.0	32.0	33.7	38.4	39.4	34.8	37.8	39.6	46.0	41.4	45.1	47.0	52.4
37	07/10/2021	20:34:43	12	Ovest	REG	25.7	27.2	26.5	23.9	23.0	25.9	31.1	32.3	31.1	47.2	48.9	48.9	35.0	42.3	44.3	44.1	45.0	59.2	51.8	49.8	61.3
38	07/10/2021	20:35:07	60	Est	Merci	25.9	25.0	22.5	23.9	25.6	24.6	28.6	30.1	31.5	32.0	33.4	33.7	36.8	37.5	41.3	43.2	48.4	44.1	42.0	48.3	53.6
39	07/10/2021	20:47:47	10	Ovest	ES*	24.1	22.2	21.9	20.9	28.0	27.2	30.5	31.4	29.5	46.4	47.3	49.0	35.6	42.8	44.4	50.9	51.7	60.0	59.3	56.5	64.5
40	07/10/2021	20:57:22	9	Ovest	ES*	26.2	24.6	25.5	21.6	25.1	24.2	30.7	32.8	32.8	47.1	48.6	48.9	37.4	41.7	44.9	43.3	43.8	58.5	50.1	47.2	60.7

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 2 (Distanza 14 m da asse binario) per i singoli transiti ferroviari

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 2 ASSE Z																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11.0	Ovest	ES*	25.4	21.2	24.6	24.0	23.3	23.5	23.6	29.0	28.3	47.2	46.0	49.9	37.7	43.8	42.9	44.0	53.7	58.4	47.3	44.3	61.0
2	07/10/2021	11:22:01	40.0	Est	Merci	25.5	23.4	24.8	24.4	23.8	22.8	22.9	29.1	31.8	33.7	37.7	38.7	40.3	40.7	43.2	45.9	50.4	46.3	44.2	44.8	55.0
3	07/10/2021	12:12:58	12.0	Est	ES*	22.2	27.2	25.3	26.3	21.1	25.2	22.2	27.2	29.4	45.0	46.0	50.1	38.9	42.5	40.9	42.4	46.9	56.6	46.1	41.4	58.9
4	07/10/2021	12:22:22	13.0	Est	ES*	25.5	26.3	24.8	24.8	23.1	24.9	29.8	41.7	39.2	48.9	51.3	49.2	47.2	47.9	46.5	45.8	51.4	43.6	40.5	39.2	58.3
5	07/10/2021	12:42:18	46.0	Ovest	Merci	24.0	25.3	25.6	24.2	24.1	24.0	28.6	34.2	35.2	36.1	38.9	42.2	42.3	39.1	38.9	41.0	49.2	43.5	42.4	40.2	53.3
6	07/10/2021	13:00:29	11	Ovest	ES*	29.1	24.9	22.9	22.8	23.9	25.8	29.7	26.5	31.4	48.6	51.2	52.7	37.5	45.1	45.2	53.5	55.1	62.2	56.7	47.8	65.1
7	07/10/2021	13:05:55	10	Ovest	ES*	25.4	21.2	24.6	23.6	23.3	23.5	23.6	28.7	28.3	47.2	46.0	49.9	37.7	43.8	42.9	42.9	53.7	58.4	47.3	44.3	61.0
8	07/10/2021	13:10:58	48	Ovest	Merci	26.5	24.7	25.6	24.7	23.2	24.1	32.6	36.5	34.4	36.2	36.2	40.8	43.0	46.3	48.4	50.4	51.2	50.8	53.2	52.9	59.7
9	07/10/2021	13:41:40	11	Ovest	ES*	25.1	27.1	26.6	26.2	23.6	23.7	28.1	30.4	33.2	43.5	51.1	51.0	42.1	46.2	46.7	48.7	47.1	60.8	50.5	42.1	62.7
10	07/10/2021	14:24:24	12	Est	ES*	22.1	21.6	24.5	26.6	24.7	22.0	26.4	26.9	30.4	48.8	51.9	51.4	40.8	43.1	46.8	47.8	51.1	56.0	48.8	47.0	60.7
11	07/10/2021	14:53:21	13	Ovest	ES*	22.2	27.2	25.3	26.3	21.1	25.2	22.2	27.2	29.4	45.0	46.0	50.1	38.9	42.5	40.9	42.4	46.9	56.6	46.1	41.4	59.0
12	07/10/2021	14:57:03	14	Ovest	Lis	26.5	24.3	23.5	24.2	24.6	23.3	22.4	25.6	23.5	27.7	29.6	29.5	31.7	32.5	37.2	39.3	42.4	37.3	39.9	40.6	48.2
13	07/10/2021	15:10:10	14	Est	ES*	23.4	19.0	24.7	21.9	24.1	21.1	23.6	27.0	34.7	45.1	49.9	45.5	39.0	44.2	42.3	45.2	52.7	45.2	41.1	42.2	57.0
14	07/10/2021	15:14:26	11	Ovest	ES*	27.3	25.6	22.6	23.2	25.9	21.4	28.8	30.8	33.8	44.3	50.6	51.0	41.9	43.9	45.4	47.4	47.0	60.4	50.1	40.3	62.2
15	07/10/2021	15:19:29	10	Est	ES*	25.1	29.6	24.9	28.4	26.9	23.3	27.6	28.4	34.1	48.4	51.8	54.0	41.1	45.8	46.2	47.3	52.4	56.6	45.1	43.1	61.2
16	07/10/2021	15:47:27	48	Ovest	Merci	24.0	25.3	25.6	24.2	24.1	24.0	28.6	34.2	35.2	36.1	38.9	42.2	42.3	39.1	38.9	41.0	49.2	43.5	42.4	40.2	53.4
17	07/10/2021	16:15:40	54	Est	Merci	24.6	24.8	24.8	23.7	23.3	22.8	28.8	31.7	40.8	45.5	44.4	42.6	41.7	44.2	43.7	46.0	46.5	43.4	42.7	43.9	54.9
18	07/10/2021	16:22:53	10	Est	ES*	27.0	27.2	25.8	24.4	25.4	25.6	25.7	29.4	31.4	50.0	52.7	52.1	41.7	48.4	50.5	54.0	55.4	57.8	51.5	48.8	63.2
19	07/10/2021	16:52:54	18	Est	ES*	23.8	28.5	25.4	23.3	22.3	25.5	24.3	28.1	33.8	46.0	50.3	49.0	43.7	44.6	43.1	43.9	47.5	50.0	42.2	43.5	57.2
20	07/10/2021	16:56:24	20	Est	Merci	26.4	21.6	24.7	24.6	23.8	24.5	25.0	39.2	36.2	41.5	44.8	44.5	47.6	45.9	47.4	48.5	52.4	49.0	49.6	52.5	59.2
21	07/10/2021	16:57:29	10	Ovest	ES*	26.6	25.0	27.0	23.2	24.2	26.3	26.3	28.2	28.9	47.2	46.9	48.5	38.1	42.6	39.8	48.8	56.1	55.9	46.5	43.8	60.6
22	07/10/2021	17:02:05	49	Est	Merci	25.1	22.9	24.7	23.7	23.1	23.1	22.5	26.4	31.1	34.7	36.0	36.5	36.4	37.8	42.3	45.1	49.8	51.3	53.2	51.3	58.1
23	07/10/2021	17:14:39	26	Est	ES*	25.5	26.3	24.8	24.8	23.1	24.9	29.8	41.7	39.2	48.9	51.3	49.2	47.2	47.9	46.5	45.8	51.4	43.6	40.5	39.2	58.4
24	07/10/2021	17:17:04	60	Est	Merci	25.5	23.4	24.8	24.4	23.8	22.8	22.9	29.1	31.8	33.7	37.7	38.7	40.3	40.7	43.2	45.9	50.4	46.3	44.2	44.8	54.9
25	07/10/2021	17:45:55	12	Ovest	ES*	23.9	23.3	23.7	25.7	19.9	23.7	29.0	30.3	32.2	44.3	50.6	51.0	41.1	44.2	44.6	48.2	48.4	60.8	51.2	42.0	62.6
26	07/10/2021	18:17:55	16	Est	ES*	25.3	21.1	25.1	22.2	25.9	25.6	24.2	27.7	33.7	44.9	51.0	51.3	42.8	45.3	44.6	53.7	49.7	53.3	45.6	44.7	59.9
27	07/10/2021	18:57:42	12	Est	ES*	26.6	23.6	23.1	23.2	22.1	23.3	23.0	29.7	32.8	47.9	51.8	50.8	39.1	48.4	45.5	46.6	51.7	54.3	42.6	40.7	59.7
28	07/10/2021	19:04:51	9	Ovest	ES*	27.3	25.6	22.6	23.2	25.9	21.4	28.8	30.8	33.8	44.3	50.6	51.0	41.9	43.9	45.4	47.4	47.0	60.4	50.1	40.3	62.1
29	07/10/2021	19:05:46	14	Est	REG	27.0	27.2	25.8	24.4	25.4	25.6	25.7	29.4	31.4	50.0	52.7	52.1	41.7	48.4	50.5	54.0	55.4	57.8	51.5	48.8	63.1
30	07/10/2021	19:17:33	10	Est	ES*	22.1	21.6	24.5	26.6	24.7	22.0	26.4	26.9	30.4	48.8	51.9	51.4	40.8	43.1	46.8	47.8	51.1	56.0	48.8	47.0	60.8
31	07/10/2021	19:18:31	12	Ovest	ES*	29.1	24.9	22.9	22.8	23.9	25.8	29.7	26.5	31.4	48.6	51.2	52.7	37.5	45.1	45.2	53.5	55.1	62.2	56.7	47.8	65.0

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 2 (DISTANZA 14 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 2 ASSE Z																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
32	07/10/2021	19:20:01	10	Est	ES*	25.5	26.3	24.8	24.8	23.1	24.9	29.8	41.7	39.2	48.9	51.3	49.2	47.2	47.9	46.5	45.8	51.4	43.6	40.5	39.2	58.3
33	07/10/2021	20:02:16	10	Ovest	REG	23.9	23.3	23.7	25.7	19.9	23.7	29.0	30.3	32.2	44.3	50.6	51.0	41.1	44.2	44.6	48.2	48.4	60.8	51.2	42.0	62.5
34	07/10/2021	20:11:26	42	Est	Merci	24.6	24.8	24.8	23.7	23.3	22.8	28.8	31.7	40.8	45.5	44.4	42.6	41.7	44.2	43.7	46.0	46.5	43.4	42.7	43.9	55.0
35	07/10/2021	20:22:01	11	Est	ES*	22.1	21.6	24.5	26.6	24.7	22.0	26.4	26.9	30.4	48.8	51.9	51.4	40.8	43.1	46.8	47.8	51.1	56.0	48.8	47.0	60.8
36	07/10/2021	20:31:58	45	Ovest	Merci	24.0	25.3	25.6	24.2	24.1	24.0	28.6	34.2	35.2	36.1	38.9	42.2	42.3	39.1	38.9	41.0	49.2	43.5	42.4	40.2	53.5
37	07/10/2021	20:34:43	12	Ovest	REG	23.9	23.3	23.7	25.7	19.9	23.7	29.0	30.3	32.2	44.3	50.6	51.0	41.1	44.2	44.6	48.2	48.4	60.8	51.2	42.0	62.7
38	07/10/2021	20:35:07	60	Est	Merci	25.5	23.4	24.8	24.4	23.8	22.8	22.9	29.1	31.8	33.7	37.7	38.7	40.3	40.7	43.2	45.9	50.4	46.3	44.2	44.8	54.8
39	07/10/2021	20:47:47	10	Ovest	ES*	29.1	24.9	22.9	22.8	23.9	25.8	29.7	26.5	31.4	48.6	51.2	52.7	37.5	45.1	45.2	53.5	55.1	62.2	56.7	47.8	65.2
40	07/10/2021	20:57:22	9	Ovest	ES*	27.3	25.6	22.6	23.2	25.9	21.4	28.8	30.8	33.8	44.3	50.6	51.0	41.9	43.9	45.4	47.4	47.0	60.4	50.1	40.3	62.1

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 3 (Distanza 20 m da asse binario) per i singoli transiti ferroviari

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 3 ASSE X																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11	Ovest	ES*	24.0	25.8	23.3	27.1	22.3	30.1	26.6	27.0	28.2	45.5	44.0	47.0	37.0	38.4	39.7	39.4	46.0	54.6	44.6	42.0	57.2
2	07/10/2021	11:22:01	40	Est	Merci	25.3	24.7	25.5	24.7	23.4	24.4	25.3	28.8	30.6	34.0	36.2	36.9	36.5	35.0	37.9	40.0	40.7	39.2	41.3	44.2	50.1
3	07/10/2021	12:12:58	12	Est	ES*	20.3	26.0	24.9	26.3	23.3	24.9	24.9	27.1	36.2	42.8	45.3	43.1	34.4	40.3	39.0	39.5	43.4	38.1	38.9	39.9	52.0
4	07/10/2021	12:22:22	13	Est	ES*	23.8	26.3	22.0	25.9	23.5	29.8	32.0	39.8	42.3	46.4	48.6	47.3	44.6	44.9	43.0	39.6	45.8	39.3	37.7	37.4	55.5
5	07/10/2021	12:42:18	46	Ovest	Merci	22.8	25.1	24.8	23.9	25.9	26.4	28.2	32.6	32.9	35.7	37.1	39.6	40.7	35.0	33.3	36.2	42.3	39.4	37.1	37.7	49.3
6	07/10/2021	13:00:29	11	Ovest	ES*	24.8	26.0	25.7	25.0	25.4	24.6	30.7	34.7	34.1	34.4	35.0	39.6	39.1	41.2	42.2	42.6	44.2	46.1	48.6	50.9	55.3
7	07/10/2021	13:05:55	10	Ovest	ES*	24.0	25.8	23.3	27.1	22.3	30.1	26.6	26.5	28.2	45.5	44.0	47.0	36.3	38.4	39.7	39.4	45.6	54.6	44.6	42.0	57.1
8	07/10/2021	13:10:58	48	Ovest	Merci	24.8	26.0	25.7	25.0	25.4	24.6	30.7	34.7	34.1	34.4	35.0	39.6	39.1	41.2	42.2	42.6	44.2	46.1	48.6	50.9	55.3
9	07/10/2021	13:41:40	11	Ovest	ES*	27.3	26.8	21.9	20.1	25.8	22.9	24.8	31.4	30.8	47.4	47.2	47.3	37.4	41.5	41.5	42.6	41.3	61.1	49.4	40.4	62.1
10	07/10/2021	14:24:24	12	Est	ES*	26.5	28.0	27.4	24.0	23.9	26.6	28.2	30.2	30.0	41.7	49.1	50.0	36.5	39.8	40.6	42.0	42.4	48.6	45.5	43.8	55.9
11	07/10/2021	14:53:21	13	Ovest	ES*	22.5	25.1	22.7	24.1	25.6	26.6	24.8	27.6	28.0	43.7	43.3	46.1	36.0	37.3	40.1	37.5	39.0	52.7	42.3	39.8	55.3
12	07/10/2021	14:57:03	14	Ovest	Lis	23.6	25.5	25.8	26.4	23.6	20.8	23.6	25.3	24.1	24.7	28.2	27.5	31.6	28.1	32.8	34.4	33.2	32.0	36.3	38.2	44.0
13	07/10/2021	15:10:10	14	Est	ES*	20.3	26.0	24.9	26.3	23.3	24.9	24.9	27.1	36.2	42.8	45.3	43.1	34.4	40.3	39.0	39.5	43.4	38.1	38.9	39.9	51.9
14	07/10/2021	15:14:26	11	Ovest	ES*	26.5	25.6	22.1	24.4	24.0	23.5	27.3	29.9	32.3	47.1	47.0	48.6	37.9	39.1	41.5	42.3	40.5	60.5	49.6	38.4	61.7
15	07/10/2021	15:19:29	10	Est	ES*	26.0	29.8	26.1	21.5	24.7	24.4	26.5	30.1	30.5	41.8	49.8	49.2	37.3	42.0	43.8	42.8	41.2	50.4	43.4	41.4	56.3
16	07/10/2021	15:47:27	48	Ovest	Merci	22.8	25.1	24.8	23.9	25.9	26.4	28.2	32.6	32.9	35.7	37.1	39.6	40.7	35.0	33.3	36.2	42.3	39.4	37.1	37.7	49.2
17	07/10/2021	16:15:40	54	Est	Merci	25.7	27.2	24.1	24.2	24.1	26.2	29.4	31.2	36.3	43.4	41.9	40.8	37.9	37.3	38.0	40.7	37.9	36.6	38.4	43.5	51.1
18	07/10/2021	16:22:53	10	Est	ES*	27.0	29.6	25.5	25.4	25.5	28.6	28.5	30.9	29.8	43.0	49.9	50.8	37.3	44.3	42.6	47.9	47.2	50.3	49.5	46.8	58.1
19	07/10/2021	16:52:54	18	Est	ES*	25.4	23.1	22.9	22.9	26.1	26.2	25.0	29.9	31.8	44.0	46.6	47.8	39.3	38.8	37.2	37.6	40.1	44.4	39.6	41.1	53.5
20	07/10/2021	16:56:24	20	Est	Merci	24.9	25.7	22.9	25.3	25.9	25.7	26.7	34.7	33.8	39.2	41.6	40.6	44.5	40.0	41.2	42.1	43.9	43.4	46.3	50.3	54.9
21	07/10/2021	16:57:29	10	Ovest	ES*	29.3	28.1	25.2	22.7	23.2	31.1	26.8	28.3	29.2	46.0	48.2	46.4	35.6	39.8	38.6	39.9	45.2	55.2	43.4	41.1	57.6
22	07/10/2021	17:02:05	49	Est	Merci	24.1	25.5	24.3	23.1	24.2	23.7	24.0	26.1	28.0	31.7	32.3	33.2	32.4	32.8	36.8	39.2	41.1	44.4	49.9	49.9	54.2
23	07/10/2021	17:14:39	26	Est	ES*	23.8	26.3	22.0	25.9	23.5	29.8	32.0	39.8	42.3	46.4	48.6	47.3	44.6	44.9	43.0	39.6	45.8	39.3	37.7	37.4	55.4
24	07/10/2021	17:17:04	60	Est	Merci	25.3	24.7	25.5	24.7	23.4	24.4	25.3	28.8	30.6	34.0	36.2	36.9	36.5	35.0	37.9	40.0	40.7	39.2	41.3	44.2	50.0
25	07/10/2021	17:45:55	12	Ovest	ES*	26.8	27.3	25.7	27.1	23.5	25.3	25.2	31.2	30.8	46.9	47.8	48.6	36.9	39.2	41.3	41.7	40.7	60.8	50.3	39.4	62.0
26	07/10/2021	18:17:55	16	Est	ES*	27.6	24.5	25.6	23.6	22.9	27.6	26.4	28.2	29.6	43.0	46.4	50.0	40.0	41.3	38.5	47.0	41.3	48.7	44.0	41.9	55.8
27	07/10/2021	18:57:42	12	Est	ES*	26.0	20.5	25.7	27.4	25.5	24.9	24.3	29.9	32.5	39.4	48.8	46.6	36.9	42.8	43.6	42.1	40.7	48.1	39.5	38.7	54.6
28	07/10/2021	19:04:51	9	Ovest	ES*	26.5	25.6	22.1	24.4	24.0	23.5	27.3	29.9	32.3	47.1	47.0	48.6	37.9	39.1	41.5	42.3	40.5	60.5	49.6	38.4	61.6
29	07/10/2021	19:05:46	14	Est	REG	27.0	29.6	25.5	25.4	25.5	28.6	28.5	30.9	29.8	43.0	49.9	50.8	37.3	44.3	42.6	47.9	47.2	50.3	49.5	46.8	58.2
30	07/10/2021	19:17:33	10	Est	ES*	26.5	28.0	27.4	24.0	23.9	26.6	28.2	30.2	30.0	41.7	49.1	50.0	36.5	39.8	40.6	42.0	42.4	48.6	45.5	43.8	56.0
31	07/10/2021	19:18:31	12	Ovest	ES*	24.8	26.0	25.7	25.0	25.4	24.6	30.7	34.7	34.1	34.4	35.0	39.6	39.1	41.2	42.2	42.6	44.2	46.1	48.6	50.9	55.4

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 3 (Distanza 20 m da asse binario) per i singoli transiti ferroviari

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 3 ASSE X																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
32	07/10/2021	19:20:01	10	Est	ES*	23.8	26.3	22.0	25.9	23.5	29.8	32.0	39.8	42.3	46.4	48.6	47.3	44.6	44.9	43.0	39.6	45.8	39.3	37.7	37.4	55.5
33	07/10/2021	20:02:16	10	Ovest	REG	26.8	27.3	25.7	27.1	23.5	25.3	25.2	31.2	30.8	46.9	47.8	48.6	36.9	39.2	41.3	41.7	40.7	60.8	50.3	39.4	62.1
34	07/10/2021	20:11:26	42	Est	Merci	25.7	27.2	24.1	24.2	24.1	26.2	29.4	31.2	36.3	43.4	41.9	40.8	37.9	37.3	38.0	40.7	37.9	36.6	38.4	43.5	51.0
35	07/10/2021	20:22:01	11	Est	ES*	26.5	28.0	27.4	24.0	23.9	26.6	28.2	30.2	30.0	41.7	49.1	50.0	36.5	39.8	40.6	42.0	42.4	48.6	45.5	43.8	55.8
36	07/10/2021	20:31:58	45	Ovest	Merci	22.8	25.1	24.8	23.9	25.9	26.4	28.2	32.6	32.9	35.7	37.1	39.6	40.7	35.0	33.3	36.2	42.3	39.4	37.1	37.7	49.3
37	07/10/2021	20:34:43	12	Ovest	REG	26.8	27.3	25.7	27.1	23.5	25.3	25.2	31.2	30.8	46.9	47.8	48.6	36.9	39.2	41.3	41.7	40.7	60.8	50.3	39.4	61.9
38	07/10/2021	20:35:07	60	Est	Merci	25.3	24.7	25.5	24.7	23.4	24.4	25.3	28.8	30.6	34.0	36.2	36.9	36.5	35.0	37.9	40.0	40.7	39.2	41.3	44.2	50.1
39	07/10/2021	20:47:47	10	Ovest	ES*	24.8	26.0	25.7	25.0	25.4	24.6	30.7	34.7	34.1	34.4	35.0	39.6	39.1	41.2	42.2	42.6	44.2	46.1	48.6	50.9	55.4
40	07/10/2021	20:57:22	9	Ovest	ES*	26.5	25.6	22.1	24.4	24.0	23.5	27.3	29.9	32.3	47.1	47.0	48.6	37.9	39.1	41.5	42.3	40.5	60.5	49.6	38.4	61.6

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 3 (DISTANZA 20 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 3 ASSE Y																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11.0	Ovest	ES*	29.3	26.4	25.0	20.8	27.1	28.4	24.6	26.7	30.6	49.3	45.0	50.9	38.7	42.8	41.2	44.0	49.4	57.2	48.3	43.1	60.1
2	07/10/2021	11:22:01	40.0	Est	Merci	24.5	25.2	25.1	23.7	23.6	25.8	28.3	30.7	32.3	33.0	36.4	38.3	39.3	38.4	41.8	43.3	46.8	44.9	43.0	44.1	53.0
3	07/10/2021	12:12:58	12.0	Est	ES*	22.1	25.5	26.4	24.7	27.1	24.4	22.7	27.5	33.3	42.1	47.1	43.5	36.5	42.3	41.0	41.5	50.2	44.1	41.6	41.2	54.9
4	07/10/2021	12:22:22	13.0	Est	ES*	25.3	25.1	24.2	24.0	26.7	36.3	38.2	39.6	44.6	49.1	51.1	49.1	47.8	46.5	44.3	41.8	49.1	43.8	41.2	38.9	57.8
5	07/10/2021	12:42:18	46.0	Ovest	Merci	25.6	26.2	25.2	26.1	25.6	26.8	28.1	32.1	32.7	34.1	36.6	42.4	44.5	37.0	37.5	38.8	47.4	43.0	42.2	38.8	52.4
6	07/10/2021	13:00:29	11.0	Ovest	ES*	24.9	27.5	25.3	25.7	25.4	25.6	28.6	33.7	34.9	36.8	35.2	41.5	43.7	44.2	45.5	47.1	48.0	50.5	53.0	52.1	58.5
7	07/10/2021	13:05:55	10.0	Ovest	ES*	29.3	26.4	25.3	20.8	27.1	28.4	24.6	26.7	30.6	49.3	44.7	50.9	38.7	42.8	41.2	43.2	49.4	57.2	48.3	43.1	60.0
8	07/10/2021	13:10:58	48.0	Ovest	Merci	24.9	27.5	25.3	25.7	25.4	25.6	28.6	33.7	34.9	36.8	35.2	41.5	43.7	44.2	45.5	47.1	48.0	50.5	53.0	52.1	58.5
9	07/10/2021	13:41:40	11.0	Ovest	ES*	29.2	21.6	24.2	25.2	25.6	24.3	28.0	32.6	33.8	49.0	51.3	51.1	41.1	45.7	43.8	47.3	46.0	61.9	51.8	43.1	63.5
10	07/10/2021	14:24:24	12.0	Est	ES*	27.4	23.8	23.1	25.3	24.6	25.4	31.1	32.4	30.6	46.3	49.8	51.4	39.5	42.2	44.9	45.6	49.3	56.0	49.2	44.8	59.8
11	07/10/2021	14:53:21	13.0	Ovest	ES*	25.4	25.4	22.7	25.4	25.8	27.4	24.0	26.7	31.1	48.3	44.6	50.7	38.9	41.1	40.2	40.6	40.1	54.9	46.6	39.5	58.0
12	07/10/2021	14:57:03	14.0	Ovest	Lis	23.9	24.7	22.9	25.1	22.2	24.3	24.5	24.5	24.0	26.0	28.0	30.2	29.6	27.9	35.5	36.5	37.8	37.3	37.1	38.8	45.8
13	07/10/2021	15:10:10	14.0	Est	ES*	22.1	25.5	26.4	24.7	27.1	24.4	22.7	27.5	33.3	42.1	47.1	43.5	36.5	42.3	41.0	41.5	50.2	44.1	41.6	41.2	54.8
14	07/10/2021	15:14:26	11.0	Ovest	ES*	27.1	24.5	23.6	24.0	24.8	24.3	29.2	31.8	33.9	49.7	50.7	51.2	41.2	42.9	43.6	43.5	43.8	61.2	51.4	40.7	62.8
15	07/10/2021	15:19:29	10.0	Est	ES*	21.6	17.5	25.0	25.8	26.5	24.2	32.3	33.1	34.0	48.9	49.4	51.9	40.9	43.8	45.6	46.4	50.0	56.2	44.1	40.6	60.0
16	07/10/2021	15:47:27	48.0	Ovest	Merci	25.6	26.2	25.2	26.1	25.6	26.8	28.1	32.1	32.7	34.1	36.6	42.4	44.5	37.0	37.5	38.8	47.4	43.0	42.2	38.8	52.5
17	07/10/2021	16:15:40	54.0	Est	Merci	26.1	26.9	25.3	25.4	24.5	26.5	30.6	33.3	37.5	42.2	43.2	41.6	40.2	40.2	42.0	43.7	42.9	41.3	40.7	43.4	52.8
18	07/10/2021	16:22:53	10.0	Est	ES*	28.1	25.2	29.0	23.3	25.9	25.5	31.8	34.5	31.1	46.3	51.5	52.1	40.7	48.3	46.1	51.5	53.8	57.3	50.2	48.5	62.0
19	07/10/2021	16:52:54	18.0	Est	ES*	28.3	24.4	26.8	25.1	22.8	26.9	28.5	30.8	33.5	43.5	48.9	49.0	42.7	41.5	39.7	42.2	46.2	50.7	42.3	42.7	56.4
20	07/10/2021	16:56:24	20.0	Est	Merci	27.2	28.2	26.4	25.0	22.2	23.4	27.3	37.7	36.0	40.9	43.5	44.0	46.7	43.3	44.2	44.6	48.2	47.7	48.6	50.8	57.1
21	07/10/2021	16:57:29	10.0	Ovest	ES*	21.8	24.0	23.9	25.1	21.2	26.3	25.6	27.6	31.5	49.9	43.1	46.8	35.7	44.1	38.9	42.9	51.0	56.0	45.6	43.4	59.1
22	07/10/2021	17:02:05	49.0	Est	Merci	24.5	24.5	25.4	26.2	24.8	23.9	26.9	26.4	30.6	33.8	33.6	35.4	33.7	35.5	40.4	42.6	46.1	49.6	51.4	49.8	56.2
23	07/10/2021	17:14:39	26.0	Est	ES*	25.3	25.1	24.2	24.0	26.7	36.3	38.2	39.6	44.6	49.1	51.1	49.1	47.8	46.5	44.3	41.8	49.1	43.8	41.2	38.9	57.9
24	07/10/2021	17:17:04	60.0	Est	Merci	24.5	25.2	25.1	23.7	23.6	25.8	28.3	30.7	32.3	33.0	36.4	38.3	39.3	38.4	41.8	43.3	46.8	44.9	43.0	44.1	52.9
25	07/10/2021	17:45:55	12.0	Ovest	ES*	28.4	23.1	26.5	24.2	25.5	23.6	29.0	31.9	32.9	49.6	51.2	51.8	40.7	44.6	43.3	44.4	46.0	61.3	51.9	41.7	63.1
26	07/10/2021	18:17:55	16.0	Est	ES*	21.8	24.6	23.8	24.5	23.9	25.9	27.1	32.6	32.8	44.0	50.4	49.5	42.7	42.2	42.2	51.5	48.0	53.3	46.3	43.9	58.9
27	07/10/2021	18:57:42	12.0	Est	ES*	25.3	25.6	24.6	23.2	21.7	25.9	28.1	33.5	36.1	47.8	50.3	50.5	39.4	46.8	46.4	43.7	50.6	53.0	41.1	38.7	58.7
28	07/10/2021	19:04:51	9.0	Ovest	ES*	27.1	24.5	23.6	24.0	24.8	24.3	29.2	31.8	33.9	49.7	50.7	51.2	41.2	42.9	43.6	43.5	43.8	61.2	51.4	40.7	62.7
29	07/10/2021	19:05:46	14.0	Est	REG	28.1	25.2	29.0	23.3	25.9	25.5	31.8	34.5	31.1	46.3	51.5	52.1	40.7	48.3	46.1	51.5	53.8	57.3	50.2	48.5	61.9
30	07/10/2021	19:17:33	10.0	Est	ES*	27.4	23.8	23.1	25.3	24.6	25.4	31.1	32.4	30.6	46.3	49.8	51.4	39.5	42.2	44.9	45.6	49.3	56.0	49.2	44.8	59.8
31	07/10/2021	19:18:31	12.0	Ovest	ES*	24.9	27.5	25.3	25.7	25.4	25.6	28.6	33.7	34.9	36.8	35.2	41.5	43.7	44.2	45.5	47.1	48.0	50.5	53.0	52.1	58.4

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 3 (DISTANZA 20 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 3 ASSE Y																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
32	07/10/2021	19:20:01	10.0	Est	ES*	25.3	25.1	24.2	24.0	26.7	36.3	38.2	39.6	44.6	49.1	51.1	49.1	47.8	46.5	44.3	41.8	49.1	43.8	41.2	38.9	58.0
33	07/10/2021	20:02:16	10.0	Ovest	REG	28.4	23.1	26.5	24.2	25.5	23.6	29.0	31.9	32.9	49.6	51.2	51.8	40.7	44.6	43.3	44.4	46.0	61.3	51.9	41.7	63.2
34	07/10/2021	20:11:26	42.0	Est	Merci	26.1	26.9	25.3	25.4	24.5	26.5	30.6	33.3	37.5	42.2	43.2	41.6	40.2	40.2	42.0	43.7	42.9	41.3	40.7	43.4	52.7
35	07/10/2021	20:22:01	11.0	Est	ES*	27.4	23.8	23.1	25.3	24.6	25.4	31.1	32.4	30.6	46.3	49.8	51.4	39.5	42.2	44.9	45.6	49.3	56.0	49.2	44.8	59.7
36	07/10/2021	20:31:58	45.0	Ovest	Merci	25.6	26.2	25.2	26.1	25.6	26.8	28.1	32.1	32.7	34.1	36.6	42.4	44.5	37.0	37.5	38.8	47.4	43.0	42.2	38.8	52.6
37	07/10/2021	20:34:43	12.0	Ovest	REG	28.4	23.1	26.5	24.2	25.5	23.6	29.0	31.9	32.9	49.6	51.2	51.8	40.7	44.6	43.3	44.4	46.0	61.3	51.9	41.7	63.2
38	07/10/2021	20:35:07	60.0	Est	Merci	24.5	25.2	25.1	23.7	23.6	25.8	28.3	30.7	32.3	33.0	36.4	38.3	39.3	38.4	41.8	43.3	46.8	44.9	43.0	44.1	53.0
39	07/10/2021	20:47:47	10.0	Ovest	ES*	24.9	27.5	25.3	25.7	25.4	25.6	28.6	33.7	34.9	36.8	35.2	41.5	43.7	44.2	45.5	47.1	48.0	50.5	53.0	52.1	58.6
40	07/10/2021	20:57:22	9.0	Ovest	ES*	27.1	24.5	23.6	24.0	24.8	24.3	29.2	31.8	33.9	49.7	50.7	51.2	41.2	42.9	43.6	43.5	43.8	61.2	51.4	40.7	62.7

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 3 (DISTANZA 20 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [Hz] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 3 ASSE Z																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
1	07/10/2021	11:21:00	11.0	Ovest	ES*	25.5	22.0	24.2	25.0	23.8	22.0	23.1	27.4	27.4	45.2	46.2	49.0	38.9	44.5	44.2	43.5	50.6	55.6	46.4	40.6	59.0
2	07/10/2021	11:22:01	40.0	Est	Merci	23.3	23.1	25.2	23.8	23.3	21.7	23.8	29.4	30.9	33.0	37.2	38.7	39.2	38.9	44.0	43.8	48.0	46.1	44.2	40.6	53.4
3	07/10/2021	12:12:58	12.0	Est	ES*	23.3	23.6	24.3	25.0	21.7	22.8	24.6	25.3	28.8	44.0	45.6	49.8	40.5	43.5	43.8	41.4	40.6	53.8	44.6	38.3	57.0
4	07/10/2021	12:22:22	13.0	Est	ES*	22.3	22.1	23.5	23.8	24.7	25.3	29.9	40.9	38.8	47.9	51.0	48.2	48.8	47.2	47.9	44.0	50.4	43.3	40.9	35.9	57.9
5	07/10/2021	12:42:18	46.0	Ovest	Merci	26.1	23.5	22.2	23.0	22.1	23.2	26.0	33.0	34.3	35.4	38.7	41.2	41.4	38.3	40.8	39.8	48.8	43.4	40.6	36.3	52.6
6	07/10/2021	13:00:29	11.0	Ovest	ES*	25.1	27.2	23.4	24.2	24.1	22.8	30.6	35.4	34.2	36.1	36.6	40.6	42.5	46.1	49.4	48.1	49.5	50.4	50.6	50.0	58.1
7	07/10/2021	13:05:55	10.0	Ovest	ES*	25.5	21.2	24.2	25.0	23.8	23.8	23.1	27.4	27.4	45.2	46.2	49.1	38.9	44.5	44.2	43.5	50.6	55.6	46.4	40.6	58.9
8	07/10/2021	13:10:58	48.0	Ovest	Merci	25.1	27.2	23.4	24.2	24.1	22.8	30.6	35.4	34.2	36.1	36.6	40.6	42.5	46.1	49.4	48.1	49.5	50.4	50.6	50.0	58.1
9	07/10/2021	13:41:40	11.0	Ovest	ES*	20.9	24.0	25.0	23.4	22.9	23.5	26.6	29.8	32.9	44.6	49.1	51.1	42.7	45.0	45.8	45.1	47.0	63.6	51.0	39.7	64.6
10	07/10/2021	14:24:24	12.0	Est	ES*	24.7	20.1	24.1	23.9	24.0	23.3	26.1	26.0	31.6	47.8	50.4	50.7	39.1	46.2	45.1	47.9	49.6	53.9	48.2	41.9	59.3
11	07/10/2021	14:53:21	13.0	Ovest	ES*	23.3	23.6	24.3	25.0	21.7	22.8	24.6	25.3	28.8	44.0	45.6	49.8	40.5	43.5	43.8	41.4	40.6	53.8	44.6	38.3	57.1
12	07/10/2021	14:57:03	14.0	Ovest	Lis	27.4	26.0	22.1	24.3	23.1	22.4	22.5	27.0	24.7	28.8	28.6	29.1	32.8	30.6	38.6	38.7	39.3	37.9	39.3	35.6	47.0
13	07/10/2021	15:10:10	14.0	Est	ES*	26.3	24.7	23.5	23.6	21.3	21.7	23.9	25.2	34.6	44.3	50.5	46.6	38.4	44.6	41.9	42.9	51.0	43.8	41.1	38.9	56.4
14	07/10/2021	15:14:26	11.0	Ovest	ES*	25.8	22.9	22.3	23.3	20.8	23.3	27.0	30.4	34.0	44.7	49.1	51.3	42.8	44.3	45.6	44.0	46.0	63.4	50.6	36.4	64.3
15	07/10/2021	15:19:29	10.0	Est	ES*	24.5	21.1	25.9	25.4	26.2	24.1	27.3	27.3	34.3	49.8	50.8	50.7	41.0	46.9	50.5	49.0	51.2	54.9	45.4	39.4	60.3
16	07/10/2021	15:47:27	48.0	Ovest	Merci	26.1	23.5	22.2	23.0	22.1	23.2	26.0	33.0	34.3	35.4	38.7	41.2	41.4	38.3	40.8	39.8	48.8	43.4	40.6	36.3	52.7
17	07/10/2021	16:15:40	54.0	Est	Merci	25.5	25.9	25.1	24.1	21.5	23.3	27.1	31.3	39.1	45.0	43.7	41.7	41.0	40.8	44.4	44.4	44.0	43.6	42.4	39.7	53.7
18	07/10/2021	16:22:53	10.0	Est	ES*	24.3	25.4	24.9	24.1	23.5	22.4	27.3	30.0	32.2	49.3	51.6	51.8	40.4	50.2	49.1	50.8	53.6	55.6	50.3	45.3	61.6
19	07/10/2021	16:52:54	18.0	Est	ES*	23.8	25.0	25.1	20.5	23.7	21.7	22.5	28.0	32.8	45.9	49.1	47.8	44.2	45.6	43.2	42.8	47.2	50.6	42.3	38.9	56.8
20	07/10/2021	16:56:24	20.0	Est	Merci	25.2	23.6	23.0	25.1	23.7	24.1	21.9	37.7	36.3	40.5	43.7	43.2	47.3	44.3	47.5	47.0	50.3	49.5	48.7	47.1	57.6
21	07/10/2021	16:57:29	10.0	Ovest	ES*	27.9	21.0	26.3	22.3	23.2	23.1	25.6	27.0	27.5	44.5	48.4	49.7	39.1	41.5	42.0	46.0	52.7	55.7	45.6	40.6	59.4
22	07/10/2021	17:02:05	49.0	Est	Merci	19.7	24.0	24.6	23.5	24.0	23.5	21.9	26.3	31.5	33.6	35.3	36.6	35.5	36.5	43.1	43.4	47.9	52.2	52.3	47.2	57.1
23	07/10/2021	17:14:39	26.0	Est	ES*	22.3	22.1	23.5	23.8	24.7	25.3	29.9	40.9	38.8	47.9	51.0	48.2	48.8	47.2	47.9	44.0	50.4	43.3	40.9	35.9	58.0
24	07/10/2021	17:17:04	60.0	Est	Merci	23.3	23.1	25.2	23.8	23.3	21.7	23.8	29.4	30.9	33.0	37.2	38.7	39.2	38.9	44.0	43.8	48.0	46.1	44.2	40.6	53.5
25	07/10/2021	17:45:55	12.0	Ovest	ES*	24.6	26.6	25.1	20.8	23.4	23.3	27.0	29.7	31.2	44.2	48.9	51.4	41.7	44.2	46.6	45.7	46.7	63.5	51.7	39.4	64.5
26	07/10/2021	18:17:55	16.0	Est	ES*	24.3	22.9	22.3	22.1	21.6	21.0	23.4	27.9	33.2	45.3	49.8	49.8	42.8	46.9	44.8	50.8	48.8	51.3	45.7	40.9	58.5
27	07/10/2021	18:57:42	12.0	Est	ES*	23.5	20.9	23.3	21.0	23.0	23.2	24.2	29.3	33.9	48.9	51.3	49.4	40.2	48.4	50.8	47.9	49.9	52.2	41.7	37.9	59.3
28	07/10/2021	19:04:51	9.0	Ovest	ES*	25.8	22.9	22.3	23.3	20.8	23.3	27.0	30.4	34.0	44.7	49.1	51.3	42.8	44.3	45.6	44.0	46.0	63.4	50.6	36.4	64.2
29	07/10/2021	19:05:46	14.0	Est	REG	24.3	25.4	24.9	24.1	23.5	22.4	27.3	30.0	32.2	49.3	51.6	51.8	40.4	50.2	49.1	50.8	53.6	55.6	50.3	45.3	61.5
30	07/10/2021	19:17:33	10.0	Est	ES*	24.7	20.1	24.1	23.9	24.0	23.3	26.1	26.0	31.6	47.8	50.4	50.7	39.1	46.2	45.1	47.9	49.6	53.9	48.2	41.9	59.2
31	07/10/2021	19:18:31	12.0	Ovest	ES*	25.1	27.2	23.4	24.2	24.1	22.8	30.6	35.4	34.2	36.1	36.6	40.6	42.5	46.1	49.4	48.1	49.5	50.4	50.6	50.0	58.0

DETTAGLIO DELLE ACCELERAZIONI RILEVATE ALLA TERNA 3 (DISTANZA 20 M DA ASSE BINARIO) PER I SINGOLI TRANSITI FERROVIARI

TRANSITO						VALORI IN FREQUENZA IN 1/3 DI OTTAVA [HZ] CON PESATURA SECONDO ASSI COMBINATI – VALORI RIFERITI ALLA TERNA 3 ASSE Z																				
Evento	Data	Ora	Durata (s)	Direzione	Tipo	1 [Hz]	1.25 [Hz]	1.6 [Hz]	2 [Hz]	2.5 [Hz]	3.15 [Hz]	4 [Hz]	5 [Hz]	6.3 [Hz]	8 [Hz]	10 [Hz]	12.5 [Hz]	16 [Hz]	20 [Hz]	25 [Hz]	31.5 [Hz]	40 [Hz]	50 [Hz]	63 [Hz]	80 [Hz]	TOT
32	07/10/2021	19:20:01	10.0	Est	ES*	22.3	22.1	23.5	23.8	24.7	25.3	29.9	40.9	38.8	47.9	51.0	48.2	48.8	47.2	47.9	44.0	50.4	43.3	40.9	35.9	58.1
33	07/10/2021	20:02:16	10.0	Ovest	REG	24.6	26.6	25.1	20.8	23.4	23.3	27.0	29.7	31.2	44.2	48.9	51.4	41.7	44.2	46.6	45.7	46.7	63.5	51.7	39.4	64.4
34	07/10/2021	20:11:26	42.0	Est	Merci	25.5	25.9	25.1	24.1	21.5	23.3	27.1	31.3	39.1	45.0	43.7	41.7	41.0	40.8	44.4	44.4	44.0	43.6	42.4	39.7	53.8
35	07/10/2021	20:22:01	11.0	Est	ES*	24.7	20.1	24.1	23.9	24.0	23.3	26.1	26.0	31.6	47.8	50.4	50.7	39.1	46.2	45.1	47.9	49.6	53.9	48.2	41.9	59.2
36	07/10/2021	20:31:58	45.0	Ovest	Merci	26.1	23.5	22.2	23.0	22.1	23.2	26.0	33.0	34.3	35.4	38.7	41.2	41.4	38.3	40.8	39.8	48.8	43.4	40.6	36.3	52.6
37	07/10/2021	20:34:43	12.0	Ovest	REG	24.6	26.6	25.1	20.8	23.4	23.3	27.0	29.7	31.2	44.2	48.9	51.4	41.7	44.2	46.6	45.7	46.7	63.5	51.7	39.4	64.4
38	07/10/2021	20:35:07	60.0	Est	Merci	23.3	23.1	25.2	23.8	23.3	21.7	23.8	29.4	30.9	33.0	37.2	38.7	39.2	38.9	44.0	43.8	48.0	46.1	44.2	40.6	53.4
39	07/10/2021	20:47:47	10.0	Ovest	ES*	25.1	27.2	23.4	24.2	24.1	22.8	30.6	35.4	34.2	36.1	36.6	40.6	42.5	46.1	49.4	48.1	49.5	50.4	50.6	50.0	58.2
40	07/10/2021	20:57:22	9.0	Ovest	ES*	25.8	22.9	22.3	23.3	20.8	23.3	27.0	30.4	34.0	44.7	49.1	51.3	42.8	44.3	45.6	44.0	46.0	63.4	50.6	36.4	64.1