

DECIBEL - Main Result

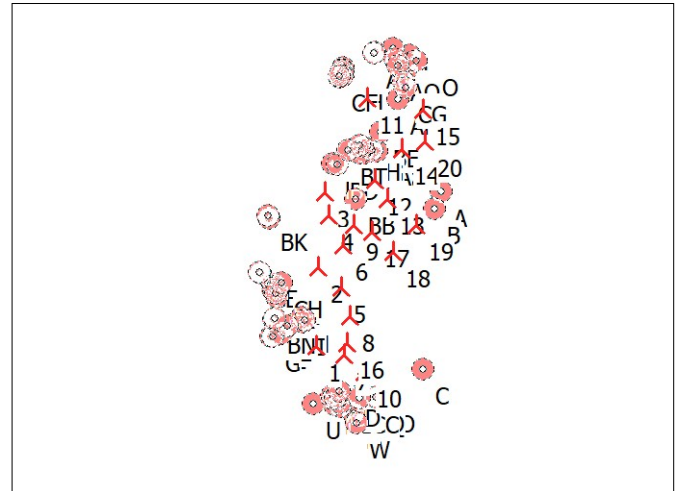
Calculation: Low-frequency_alternitive A

Noise calculation model:

Danish low frequency 2024

The calculation is based on "BEK nr. 995 af 26/08/2024" from the Danish Environmental Agency.

All coordinates are in
Geo [deg]-WGS84



Scale 1:250 000

 New WTG

 Noise sensitive area

WTGs

	Longitude	Latitude	Z	Row data/Description	WTG type				Noise data				First wind speed [m/s]	LwaRef [dB(A)]	Last wind speed [m/s]	LwaRef [dB(A)]
					Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Creator	Name				
			[m]				[kW]	[m]	[m]							
1	24,433377° E	56,568075° N	32,9	VES-1	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
2	24,434808° E	56,681743° N	55,2	VES-9	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
3	24,438478° E	56,703984° N	51,2	VES-6	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
4	24,440471° E	56,697014° N	49,1	VES-16	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
5	24,446995° E	56,675717° N	34,0	VES-4	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
6	24,447993° E	56,688309° N	54,3	VES-15	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
7	24,448942° E	56,655532° N	46,7	VES-2	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
8	24,451950° E	56,667029° N	55,0	VES-8	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
9	24,454008° E	56,694315° N	55,2	VES-5	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
10	24,459956° E	56,650478° N	44,1	VES-3	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
11	24,461473° E	56,731940° N	44,3	VES-10	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
12	24,465257° E	56,707480° N	48,1	VES-12	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
13	24,472359° E	56,702018° N	52,4	VES-13	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
14	24,480156° E	56,716669° N	55,3	VES-7	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
15	24,491385° E	56,728358° N	56,2	VES-11	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
16	24,450451° E	56,658985° N	42,9	VES-14	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
17	24,464088° E	56,692158° N	52,6	VES-17	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
18	24,475213° E	56,686169° N	50,3	VES-18	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
19	24,487838° E	56,694215° N	48,6	VES-19	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7
20	24,492752° E	56,719162° N	49,8	VES-20	Yes	VESTAS	V172-7.2-7 200	7 200	200,0	200,0	USER	Vestas V172-7.2	6,0	93,4	8,0	94,7

Calculation Results

Sound level

Noise sensitive area

Noise sensitive area						Demands		Sound level	Demands fulfilled ?
No.	Name	Longitude	Latitude	Z [m]	Immission height [m]	Wind speed [m/s]	Noise [dB(A)]	From WTGs [dB(A)]	Noise
A	Gedini	24,501349° E	56,704096° N	47,2	1,5	6,0	20,0	12,8	Yes
A						8,0	20,0	14,1	Yes
B	Jaungedini	24,497591° E	56,698994° N	41,7	1,5	6,0	20,0	14,4	Yes
B						8,0	20,0	15,7	Yes
C	Maleji	24,491552° E	56,651377° N	30,2	1,5	6,0	20,0	9,2	Yes
C						8,0	20,0	10,5	Yes
D	Brigmani	24,409312° E	56,661146° N	28,8	1,5	6,0	20,0	10,6	Yes
D						8,0	20,0	11,9	Yes
E	Drakanberki	24,414655° E	56,662044° N	26,6	1,5	6,0	20,0	11,8	Yes
E						8,0	20,0	13,1	Yes
F	Ziles	24,426245° E	56,665379° N	30,2	1,5	6,0	20,0	14,2	Yes
F						8,0	20,0	15,5	Yes
G	Drakane	24,410391° E	56,661063° N	27,8	1,5	6,0	20,0	10,8	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: Low-frequency_alternative A

...continued from previous page

Noise sensitive area

No.	Name	Longitude	Latitude	Z [m]	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
G						8,0	20,0	12,1	Yes
H	Pinni	24,425992° E	56,666893° N	32,8	1,5	6,0	20,0	13,9	Yes
H						8,0	20,0	15,2	Yes
I	Jaunziles	24,427343° E	56,665969° N	31,9	1,5	6,0	20,0	14,3	Yes
I						8,0	20,0	15,6	Yes
J	Jaunseglini	24,410770° E	56,666312° N	40,5	1,5	6,0	20,0	10,9	Yes
J						8,0	20,0	12,2	Yes
K	Piebalgas	24,411452° E	56,676414° N	36,0	1,5	6,0	20,0	11,4	Yes
K						8,0	20,0	12,7	Yes
L	Seglini	24,417731° E	56,664105° N	31,9	1,5	6,0	20,0	12,4	Yes
L						8,0	20,0	13,7	Yes
M	Lielskabuli	24,467211° E	56,642907° N	33,5	1,5	6,0	20,0	12,2	Yes
M						8,0	20,0	13,5	Yes
N	Zvirgzdopes	24,441944° E	56,643395° N	30,6	1,5	6,0	20,0	12,0	Yes
N						8,0	20,0	13,4	Yes
O	Kalna Smilgas	24,471885° E	56,643006° N	31,8	1,5	6,0	20,0	11,3	Yes
O						8,0	20,0	12,6	Yes
P	Me ž setas	24,453758° E	56,638174° N	30,2	1,5	6,0	20,0	10,3	Yes
P						8,0	20,0	11,6	Yes
Q	Mazskabuli	24,466127° E	56,642910° N	31,6	1,5	6,0	20,0	12,4	Yes
Q						8,0	20,0	13,7	Yes
R	Indrani	24,453168° E	56,643222° N	35,4	1,5	6,0	20,0	13,1	Yes
R						8,0	20,0	14,4	Yes
S	Indrani 1	24,453088° E	56,643228° N	35,4	1,5	6,0	20,0	13,1	Yes
S						8,0	20,0	14,4	Yes
T	Zvirbuli	24,446461° E	56,640077° N	35,9	1,5	6,0	20,0	10,9	Yes
T						8,0	20,0	12,2	Yes
U	Lakstigalas	24,432258° E	56,641033° N	28,9	1,5	6,0	20,0	10,1	Yes
U						8,0	20,0	11,4	Yes
V	Ciekuri	24,443472° E	56,640781° N	31,0	1,5	6,0	20,0	11,0	Yes
V						8,0	20,0	12,3	Yes
W	Mazkrievini	24,455620° E	56,635467° N	30,8	1,5	6,0	20,0	9,2	Yes
W						8,0	20,0	10,5	Yes
X	Rozites Nr. 76	24,446955° E	56,739390° N	25,0	1,5	6,0	20,0	10,0	Yes
X						8,0	20,0	11,3	Yes
Y	Rozites Nr. 59	24,447865° E	56,739023° N	25,6	1,5	6,0	20,0	10,3	Yes
Y						8,0	20,0	11,7	Yes
Z	Rozites Nr. 10	24,448494° E	56,740929° N	29,9	1,5	6,0	20,0	9,7	Yes
Z						8,0	20,0	11,0	Yes
AA	Rozites 45	24,448053° E	56,739505° N	26,6	1,5	6,0	20,0	10,2	Yes
AA						8,0	20,0	11,5	Yes
AB	Rozites Nr. 14	24,445991° E	56,738194° N	33,8	1,5	6,0	20,0	10,3	Yes
AB						8,0	20,0	11,6	Yes
AC	Rozites Nr. 72	24,447248° E	56,739801° N	27,3	1,5	6,0	20,0	9,9	Yes
AC						8,0	20,0	11,2	Yes
AD	Rozites Nr. 65	24,447599° E	56,740503° N	28,6	1,5	6,0	20,0	9,7	Yes
AD						8,0	20,0	11,0	Yes
AE	Rozites Nr. 58	24,447835° E	56,738895° N	25,1	1,5	6,0	20,0	10,4	Yes
AE						8,0	20,0	11,7	Yes
AF	Rozites Nr. 24	24,447905° E	56,740160° N	27,0	1,5	6,0	20,0	9,9	Yes
AF						8,0	20,0	11,2	Yes
AG	Rozites Nr. 46	24,448109° E	56,738819° N	25,6	1,5	6,0	20,0	10,5	Yes
AG						8,0	20,0	11,8	Yes
AH	Rozites Nr. 43	24,447473° E	56,738419° N	25,7	1,5	6,0	20,0	10,5	Yes
AH						8,0	20,0	11,8	Yes
AI	Druvnieki	24,484305° E	56,744758° N	35,5	1,5	6,0	20,0	8,8	Yes
AI						8,0	20,0	10,2	Yes
AJ	Spodriņi	24,475257° E	56,746619° N	30,6	1,5	6,0	20,0	8,4	Yes
AJ						8,0	20,0	9,8	Yes
AK	Pegasi	24,482574° E	56,740434° N	29,8	1,5	6,0	20,0	10,5	Yes
AK						8,0	20,0	11,9	Yes
AL	Akmenkalni	24,483815° E	56,734725° N	37,2	1,5	6,0	20,0	13,3	Yes
AL						8,0	20,0	14,6	Yes
AM	Vidusskurbas	24,477200° E	56,742919° N	33,5	1,5	6,0	20,0	9,7	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: Low-frequency_alternative A

...continued from previous page

Noise sensitive area

No.	Name	Longitude	Latitude	Z [m]	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
AM						8,0	20,0	11,1	Yes
AN	Mazskurbas	24,476435° E	56,743682° N	33,0	1,5	6,0	20,0	9,5	Yes
AN						8,0	20,0	10,8	Yes
AO	Dumbraji	24,487995° E	56,742978° N	40,9	1,5	6,0	20,0	9,4	Yes
AO						8,0	20,0	10,7	Yes
AP	Salaskalni	24,477974° E	56,731600° N	47,5	1,5	6,0	20,0	14,2	Yes
AP						8,0	20,0	15,5	Yes
AQ	Zeltmarini 1	24,477895° E	56,741645° N	34,6	1,5	6,0	20,0	10,2	Yes
AQ						8,0	20,0	11,5	Yes
AR	Ru š as	24,480891° E	56,736673° N	33,6	1,5	6,0	20,0	12,2	Yes
AR						8,0	20,0	13,5	Yes
AS	Austrini	24,465556° E	56,745670° N	33,0	1,5	6,0	20,0	8,9	Yes
AS						8,0	20,0	10,2	Yes
AT	Kannenieki	24,465059° E	56,745180° N	31,6	1,5	6,0	20,0	9,1	Yes
AT						8,0	20,0	10,4	Yes
AU	Gali	24,451515° E	56,716542° N	34,8	1,5	6,0	20,0	13,4	Yes
AU						8,0	20,0	14,8	Yes
AV	Platkaji	24,459634° E	56,716290° N	34,2	1,5	6,0	20,0	14,5	Yes
AV						8,0	20,0	15,8	Yes
AW	Platkaji	24,459995° E	56,715738° N	35,4	1,5	6,0	20,0	14,7	Yes
AW						8,0	20,0	16,0	Yes
AX	Ataugas	24,466382° E	56,716038° N	35,6	1,5	6,0	20,0	15,6	Yes
AX						8,0	20,0	16,9	Yes
AY	Jaungali	24,451874° E	56,716417° N	36,2	1,5	6,0	20,0	13,5	Yes
AY						8,0	20,0	14,8	Yes
AZ	Me ž strauti	24,445171° E	56,712550° N	31,3	1,5	6,0	20,0	14,1	Yes
AZ						8,0	20,0	15,4	Yes
BA	Slaveikas	24,463630° E	56,716441° N	34,4	1,5	6,0	20,0	15,0	Yes
BA						8,0	20,0	16,3	Yes
BB	Beci	24,454938° E	56,701857° N	35,4	1,5	6,0	20,0	17,6	Yes
BB						8,0	20,0	18,9	Yes
BC	Cenas	24,442696° E	56,712387° N	35,2	1,5	6,0	20,0	14,1	Yes
BC						8,0	20,0	15,4	Yes
BD	Strauti	24,444928° E	56,712211° N	35,0	1,5	6,0	20,0	14,2	Yes
BD						8,0	20,0	15,6	Yes
BE	Rajumi	24,468787° E	56,721846° N	35,3	1,5	6,0	20,0	14,8	Yes
BE						8,0	20,0	16,1	Yes
BF	Prie ž usalas	24,456988° E	56,715530° N	35,1	1,5	6,0	20,0	14,4	Yes
BF						8,0	20,0	15,7	Yes
BG	Burmeistari	24,458915° E	56,717725° N	32,5	1,5	6,0	20,0	14,0	Yes
BG						8,0	20,0	15,3	Yes
BH	Daijas	24,456993° E	56,717971° N	34,0	1,5	6,0	20,0	13,7	Yes
BH						8,0	20,0	15,0	Yes
BI	Me ž a Stuberi	24,407856° E	56,696062° N	32,0	1,5	6,0	20,0	10,7	Yes
BI						8,0	20,0	12,0	Yes
BJ	Jaundunduri	24,403383° E	56,679811° N	35,6	1,5	6,0	20,0	10,1	Yes
BJ						8,0	20,0	11,4	Yes
BK	80250120069	24,407646° E	56,697080° N	31,3	1,5	6,0	20,0	10,6	Yes
BK						8,0	20,0	11,9	Yes
BL	Piebalgas 14	24,410784° E	56,674676° N	32,4	1,5	6,0	20,0	11,2	Yes
BL						8,0	20,0	12,5	Yes
BM	Piebalgas 8	24,410105° E	56,676212° N	34,1	1,5	6,0	20,0	11,1	Yes
BM						8,0	20,0	12,4	Yes
BN	Jaunseglini 1	24,411322° E	56,666335° N	38,2	1,5	6,0	20,0	11,0	Yes
BN						8,0	20,0	12,3	Yes
BO	Piebalgas 13	24,410789° E	56,675050° N	32,0	1,5	6,0	20,0	11,2	Yes
BO						8,0	20,0	12,5	Yes
BP	Piebalgas 11	24,410227° E	56,675033° N	32,0	1,5	6,0	20,0	11,1	Yes
BP						8,0	20,0	12,4	Yes
BQ	Piebalgas 10	24,410201° E	56,675472° N	32,3	1,5	6,0	20,0	11,1	Yes
BQ						8,0	20,0	12,4	Yes
BR	Piebalgas 9	24,410141° E	56,675858° N	33,3	1,5	6,0	20,0	11,1	Yes
BR						8,0	20,0	12,4	Yes
BS	Piebalgas 12	24,410759° E	56,675507° N	32,8	1,5	6,0	20,0	11,2	Yes

To be continued on next page...

DECIBEL - Main Result

Calculation: Low-frequency_alternitive A

...continued from previous page

Noise sensitive area

No.	Name	Longitude	Latitude	Z [m]	Immission height [m]	Wind speed [m/s]	Demands Noise [dB(A)]	Sound level From WTGs [dB(A)]	Demands fulfilled ? Noise
BS						8,0	20,0	12,5	Yes
BT	Jaunstrausti	24,450682° E	56,716325° N	34,2	1,5	6,0	20,0	13,4	Yes
BT						8,0	20,0	14,7	Yes
BU	Piebalgas 3	24,411448° E	56,674324° N	33,9	1,5	6,0	20,0	11,3	Yes
BU						8,0	20,0	12,6	Yes
BV	Piebalgas 1	24,412168° E	56,672647° N	37,5	1,5	6,0	20,0	11,3	Yes
BV						8,0	20,0	12,6	Yes
BW	Piebalgas 5	24,412286° E	56,675164° N	34,1	1,5	6,0	20,0	11,5	Yes
BW						8,0	20,0	12,8	Yes
BX	Piebalgas 2	24,411824° E	56,673770° N	35,4	1,5	6,0	20,0	11,3	Yes
BX						8,0	20,0	12,6	Yes
BY	Vigriezes 1	24,446592° E	56,641359° N	31,8	1,5	6,0	20,0	11,5	Yes
BY						8,0	20,0	12,8	Yes
BZ	Ievulici	24,442394° E	56,642606° N	28,3	1,5	6,0	20,0	11,7	Yes
BZ						8,0	20,0	13,0	Yes
CA	Zvirgzde	24,445105° E	56,643039° N	31,0	1,5	6,0	20,0	12,2	Yes
CA						8,0	20,0	13,5	Yes
CB	Silavas	24,443999° E	56,642773° N	30,8	1,5	6,0	20,0	12,0	Yes
CB						8,0	20,0	13,3	Yes
CC	Krivi	24,457322° E	56,642858° N	31,8	1,5	6,0	20,0	13,1	Yes
CC						8,0	20,0	14,4	Yes
CD	Šalkas	24,446094° E	56,644816° N	28,6	1,5	6,0	20,0	13,3	Yes
CD						8,0	20,0	14,6	Yes
CE	Dunduri	24,403018° E	56,680063° N	35,0	1,5	6,0	20,0	10,0	Yes
CE						8,0	20,0	11,3	Yes
CF	Rozites Nr. 16	24,446290° E	56,738504° N	29,1	1,5	6,0	20,0	10,2	Yes
CF						8,0	20,0	11,5	Yes
CG	Jaunzemi	24,482138° E	56,735023° N	39,6	1,5	6,0	20,0	13,0	Yes
CG						8,0	20,0	14,4	Yes
CH	40940020002	24,414981° E	56,677006° N	35,0	1,5	6,0	20,0	12,1	Yes
CH						8,0	20,0	13,4	Yes

Distances (m)

NSA	WTG																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	6604	4776	3851	3811	4591	3711	6289	5118	3098	6487	3946	2242	1791	1909	2769	5912	2641	2559	1377	1758
B	6020	4300	3663	3506	4041	3263	5684	4527	2720	5874	4283	2194	1582	2239	3291	5310	2189	1980	800	2265
C	3645	4851	6700	5969	3848	4903	2654	2989	5306	1940	9157	6451	5760	7303	8571	2659	4843	4001	4775	7548
D	1515	2775	5094	4427	2823	3843	2509	2695	4598	3325	8505	6194	5970	7554	9016	2534	4816	4907	6060	8238
E	1230	2517	4893	4203	2500	3568	2224	2353	4328	3062	8294	5934	5685	7287	8753	2221	4519	4582	5740	7959
F	923	1896	4363	3629	1715	2880	1772	1587	3644	2651	7719	5262	4963	6597	8068	1646	3778	3790	4956	7243
G	1448	2746	5079	4407	2774	3810	2443	2633	4567	3260	8489	6166	5934	7524	8987	2467	4777	4858	6013	8204
H	1081	1740	4200	3469	1620	2739	1892	1592	3503	2771	7562	5120	4834	6460	7930	1739	3656	3702	4860	7113
I	954	1815	4287	3549	1622	2791	1762	1513	3554	2641	7637	5173	4870	6507	7978	1616	3684	3697	4862	7151
J	1662	2263	4525	3873	2455	3347	2630	2526	4092	3494	7940	5671	5482	7036	8492	2566	4354	4527	5653	7737
K	2445	1550	3488	2902	2180	2602	3269	2693	3282	4145	6900	4778	4696	6148	7578	3079	3671	4056	5083	6889
L	1171	2225	4619	3920	2211	3272	2139	2123	4032	3001	8014	5640	5388	6992	8458	2086	4222	4295	5450	7662
M	2676	4759	7025	6243	3858	5191	1798	2844	5781	953	9919	7191	6589	8251	9629	2064	5487	4842	5851	8633
N	1717	4292	6750	5971	3612	5015	1418	2702	5718	1357	9931	7277	6788	8488	9933	1813	5597	5181	6319	8992
O	2897	4876	7092	6314	3949	5253	1981	2941	5817	1108	9923	7190	6571	8217	9578	2212	5494	4810	5785	8575
P	2544	4988	7387	6602	4201	5593	1955	3215	6251	1422	10451	7749	7199	8888	10303	2326	6044	5503	6580	9329
Q	2624	4731	7008	6226	3837	5176	1757	2823	5772	924	9917	7190	6592	8257	9639	2032	5485	4849	5865	8645
R	2051	4434	6825	6040	3638	5030	1395	2652	5689	909	9891	7193	6651	8343	9764	1763	5490	4969	6062	8796
S	2048	4432	6824	6038	3637	5029	1393	2651	5688	911	9891	7193	6652	8344	9765	1762	5490	4970	6064	8797
T	2159	4694	7132	6350	3968	5371	1727	3020	6057	1424	10270	7593	7077	8774	10208	2119	5899	5426	6540	9251
U	1899	4536	7020	6253	3966	5352	1911	3136	6081	1998	10279	7670	7222	8918	10376	2289	6018	5674	6832	9456
V	2023	4592	7044	6264	3896	5299	1676	2968	5996	1479	10210	7546	7045	8744	10183	2072	5858	5415	6542	9235
W	2863	5308	7701	6915	4513	5902	2271	3521	6553	1692	10748	8040	7481	9165	10572	2638	6333	5772	6833	9593
X	9092	6462	3976	4735	7090	5688	9338	8063	5037	9932	1215	3725	4442	3245	2984	8955	5363	6173	5618	3596
Y	9057	6428	3943	4699	7049	5647	9296	8020	4992	9887	1147	3670	4385	3178	2916	8913	5312	6119	5557	3527
Z	9272	6643	4159	4914	7261	5859	9508	8231	5201	10095	1278	3863	4572	3324	2975	9125	5514	6313	5732	3635
AA	9111	6482	3998	4754	7103	5700	9350	8073	5045	9939	1176	3718	4431	3213	2928	8967	5362	6167	5600	3552
AB	8954	6323	3837	4597	6957	5556	9206	7932	4910	9804	1176	3617	4339	3181	2986	8824	5244	6063	5527	3561

To be continued on next page...

DECIBEL - Main Result

Calculation: Low-frequency_alternative A

...continued from previous page

NSA	WTG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
AC		9139	6509	4024	4782	7135	5733	9383	8108	5081	9976	1234	3764	4479	3270	2987	9000	5404	6212	5651	3611
AD		9219	6589	4104	4862	7214	5812	9461	8185	5158	10052	1277	3832	4545	3319	3002	9078	5477	6282	5713	3645
AE		9042	6413	3929	4685	7035	5632	9282	8006	4978	9873	1139	3657	4372	3168	2912	8899	5298	6105	5545	3519
AF		9183	6554	4069	4825	7175	5773	9423	8146	5118	10013	1236	3790	4503	3277	2968	9040	5436	6240	5670	3606
AG		9035	6407	3923	4678	7026	5624	9274	7997	4968	9863	1121	3644	4358	3151	2893	8890	5287	6093	5530	3501
AH		8987	6358	3873	4630	6982	5580	9229	7953	4927	9821	1120	3613	4330	3141	2912	8846	5250	6061	5508	3504
AI		10143	7643	5337	5955	8020	6667	10168	8878	5915	10603	1997	4311	4815	3138	1877	9773	5986	6547	5632	2896
AJ		10187	7636	5254	5920	8082	6704	10269	8976	5967	10746	1839	4401	4969	3348	2260	9875	6102	6731	5886	3239
AK		9652	7160	4874	5479	7528	6178	9675	8385	5425	10111	1601	3819	4323	2650	1449	9280	5493	6059	5156	2449
AL		9077	6619	4407	4967	6946	5614	9073	7786	4855	9494	1402	3239	3709	2023	847	8677	4891	5432	4517	1817
AM		9821	7289	4941	5584	7708	6338	9883	8590	5595	10347	1556	4013	4564	2928	1839	9488	5709	6320	5462	2811
AN		9890	7352	4994	5643	7779	6407	9958	8665	5666	10427	1596	4088	4646	3016	1936	9564	5786	6404	5552	2907
AO		10028	7556	5295	5887	7899	6561	10026	8740	5804	10441	2036	4190	4660	2968	1641	9631	5845	6374	5429	2668
AP		8630	6149	3912	4484	6505	5158	8654	7364	4403	9099	1011	2796	3312	1668	897	8259	4473	5061	4206	1654
AQ		9696	7173	4838	5472	7581	6214	9751	8459	5469	10210	1476	3882	4425	2784	1694	9356	5574	6179	5316	2663
AR		9223	6736	4471	5062	7097	5749	9244	7954	4995	9682	1300	3388	3894	2228	1127	8849	5062	5634	4747	2081
AS		9950	7363	4929	5631	7871	6477	10088	8796	5762	10604	1549	4252	4878	3350	2493	9696	5959	6651	5889	3388
AT		9891	7302	4867	5570	7813	6418	10030	8738	5704	10549	1490	4198	4826	3306	2471	9639	5904	6600	5843	3356
AU		6604	4007	1610	2277	4554	3151	6795	5513	2479	7374	1820	1314	2060	1754	2773	6409	2822	3680	3336	2542
AV		6678	4136	1886	2446	4583	3196	6797	5505	2471	7328	1746	1040	1770	1257	2363	6405	2701	3487	3004	2053
AW		6624	4087	1857	2403	4527	3141	6738	5446	2413	7266	1806	974	1705	1239	2381	6346	2637	3422	2941	2041
AX		6763	4280	2173	2647	4644	3286	6821	5528	2535	7310	1796	955	1603	846	2055	6427	2663	3369	2762	1652
AY		6594	4000	1609	2270	4542	3139	6782	5499	2464	7358	1826	1289	2036	1732	2760	6395	2803	3659	3311	2521
AZ		6108	3488	1038	1754	4103	2705	6353	5085	2101	6970	2378	1353	2037	2191	3332	5973	2549	3466	3316	3005
BA		6758	4248	2073	2587	4647	3276	6841	5548	2533	7348	1731	1003	1693	1012	2156	6448	2704	3445	2885	1809
BB		5051	2557	1036	1037	2951	1567	5171	3882	842	5729	3373	890	1067	2259	3700	4781	1217	2143	2188	3012
BC		6074	3446	971	1717	4091	2701	6342	5082	2128	6974	2462	1486	2152	2343	3471	5965	2606	3534	3426	3156
BD		6069	3448	998	1714	4065	2668	6316	5049	2069	6935	2419	1352	2027	2213	3365	5936	2522	3442	3305	3029
BE		7424	4926	2720	3264	5307	3945	7483	6190	3196	7965	1210	1614	2218	904	1562	7089	3318	3992	3290	1497
BF		6559	4000	1714	2296	4475	3081	6699	5409	2369	7245	1848	1029	1775	1424	2544	6309	2638	3455	3034	2227
BG		6823	4270	1977	2568	4734	3343	6952	5661	2624	7488	1590	1205	1933	1306	2314	6561	2864	3653	3161	2078
BH		6824	4256	1926	2543	4744	3348	6970	5680	2640	7517	1579	1273	2010	1426	2402	6580	2907	3713	3250	2193
BI		4510	2295	2073	2001	3299	2606	5168	4213	2834	5997	5171	3739	4006	4987	6252	4884	3472	4271	4904	5801
BJ		3040	1938	3445	2972	2712	2893	3887	3300	3497	4764	6808	4885	4896	6242	7633	3702	3966	4458	5418	7012
BK		4620	2384	2039	2011	3387	2658	5273	4309	2857	6100	5092	3714	4002	4947	6198	4987	3501	4314	4923	5763
BL		2310	1670	3678	3082	2223	2739	3165	2663	3435	4043	7092	4948	4848	6318	7752	2994	3803	4151	5199	7053
BM		2473	1634	3547	2971	2262	2684	3312	2761	3362	4190	6957	4852	4776	6221	7648	3130	3754	4141	5168	6964
BN		1635	2240	4510	3855	2423	3322	2602	2492	4068	3466	7924	5649	5457	7014	8470	2535	4327	4496	5624	7713
BO		2343	1650	3641	3048	2220	2716	3193	2677	3408	4071	7054	4917	4822	6287	7720	3019	3781	4138	5181	7024
BP		2362	1682	3659	3070	2255	2746	3217	2708	3436	4095	7071	4942	4850	6312	7744	3045	3812	4171	5213	7050
BQ		2402	1662	3617	3032	2255	2722	3251	2726	3407	4129	7028	4907	4821	6277	7707	3076	3789	4159	5195	7017
BR		2439	1648	3581	3000	2259	2702	3283	2745	3384	4161	6991	4879	4798	6249	7677	3104	3771	4150	5181	6990
BS		2385	1629	3597	3008	2221	2690	3229	2696	3378	4107	7009	4881	4792	6251	7682	3051	3757	4125	5162	6990
BT		6572	3971	1564	2239	4527	3124	6770	5489	2459	7354	1860	1329	2074	1805	2829	6384	2813	3679	3353	2595
BU		2254	1653	3694	3090	2184	2728	3108	2612	3429	3987	7109	4950	4841	6320	7757	2938	3788	4124	5179	7052
BV		2079	1718	3844	3220	2162	2804	2952	2518	3521	3831	7260	5062	4929	6432	7875	2797	3853	4147	5222	7155
BW		2301	1563	3588	2984	2128	2633	3135	2595	3329	4012	7003	4846	4742	6216	7652	2953	3696	4047	5093	6950
BX		2191	1665	3740	3127	2167	2745	3050	2572	3452	3929	7155	4981	4863	6351	7790	2884	3801	4123	5185	7080
BY		2030	4554	6991	6208	3826	5228	1585	2877	5914	1305	10127	7451	6936	8634	10068	1977	5757	5289	6405	9113
BZ		1809	4382	6838	6059	3697	5100	1494	2782	5801	1389	10015	7358	6865	8565	10009	1889	5675	5251	6386	9065
CA		1822	4356	6798	6017	3640	5044	1411	2704	5735	1231	9949	7281	6776	8475	9914	1806	5592	5145	6271	8965
CB		1824	4376	6824	6043	3673	5076	1453	2744	5772	1302	9986	7322	6822	8521	9962	1848	5635	5197	6327	9015
CC		2242	4544	6903	6118	3713	5093	1502	2711	5733	864	9922	7212	6651	8337	9746	1844	5505	4946	6016	8769
CD		1670	4169	6604	5822	3441	4844	1206	2499	5533	1058	9746	7075	6569	8268	9707	1600	5385	4938	6066	8758
CE		3075	1957	3437	2971	2738	2905	3923	3332	3504	4800	6796	4885	4902	6240	7629	3737	3977	4476	5431	7012
CF		8990	6359	3873	4633	6991	5590	9240	7966	4943	9837	1182	3644	4365	3195	2982	8858	5274	6090	5549	3567
CG		9073	6603	4369	4942	6945	5606	9081	7793	4849	9511	1310	3236	3723	2047	933	8686	4899	5456	4557	1882
CH		2391	1325	3331	2721	1967	2383	3170	2524	3071	4041	6747	4583	4485	5953	7389	2959	3450	3830	4858	6688