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THIRD ORDER-TWO SIGNAL INTERMODULATION PRODUCTS FOR 242 FREQUEN--ETC(U)
NOV 70 J M MORROW F19628-70-C-0291
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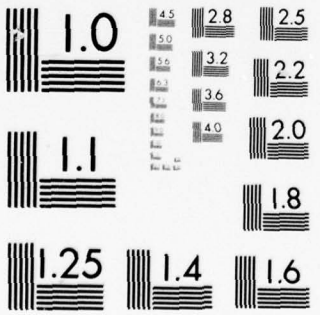


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# DEPARTMENT OF DEFENSE

## ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER

AD A054175

# THIRD ORDER-TWO SIGNAL INTERMODULATION PRODUCTS FOR 242 FREQUENCIES BETWEEN

## 225 - 400 MHZ

Prepared by John M. Morrow
of the IIT Research Institute

November 1970

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(14) ECAC-PR-70-018

(6) THIRD ORDER-TWO SIGNAL INTERMODULATION PRODUCTS FOR 242 FREQUENCIES BETWEEN 225 - 400 MHZ.

(9) Project Report,

No. ECAC-PR-70-018

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DEPARTMENT OF DEFENSE
Electromagnetic Compatibility Analysis Center

(10) Prepared by John M. Morrow
of the IIT Research Institute

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## FOREWORD

The Electromagnetic Compatibility Analysis Center (ECAC) is a Department of Defense facility, established to provide advice and assistance on electromagnetic compatibility matters to the Secretary of Defense, the Joint Chiefs of Staff, the military departments and other DOD components. The Center, located at North Severn, Annapolis, Maryland 21402, is under executive control of the Director of Defense Research and Engineering and the Chairman, Joint Chiefs of Staff or their designees who jointly provide policy guidance, assign projects and establish priorities. ECAC functions under the direction of the Secretary of the Air Force and the management and technical direction of the Center are provided by military and civil service personnel. The technical operations function is provided through an Air Force sponsored contract with the IIT Research Institute (IITRI).

This report was prepared as part of AF Project 649E under Contract F-19628-70-C-0291 by the staff of the IIT Research Institute at the Department of Defense Electromagnetic Compatibility Analysis Center.

To the extent possible, all abbreviations and symbols used in this report are taken from American Standard Y10.19 (1967) 'Units Used in Electrical Science and Electrical Engineering" issued by the United States of America Standards Institute.

Users of this report are invited to submit comments which would be useful in revising or adding to this material to the Director, ECAC, North Severn, Annapolis, Maryland 21402, Attention ACV.

Reviewed by:

JOHN M. MORROW
Project Engineer

J. M. DETERDING
Director of Technical Operations

Approved:

G. O. NICHOLSON
Colonel, USAF
Director

M. A. SKEATH
Special Projects
Deputy Director

## ABSTRACT

This Project Report is one of a series of five prepared under Task Assignment Number 11 to Inter-Agency Agreement DOT-FA70WI-175. The five reports are designed as handbooks to be used in FAA frequency assignment processes. Their sole purpose is to identify third order-two signal intermodulation products and their contributing frequency pairs.

These matrices include all third order-two signal intermodulation products within the 118-136 MHz and 225-400 MHz band produced by mixtures of all possible pairs of 242 selected channels in the 225-400 MHz band. These products are of the form $2F_1 - F_2$ and $2F_2 - F_1$.



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KEYWORDS

Intermodulation
Air Traffic Control
Frequency Assignment

# SECTION 1

# INTRODUCTION

## BACKGROUND

Under Task Assignment 11 to Inter-Agency Agreement DOT-FA70WI-175 the Federal Aviation Administration specified a requirement for a series of five frequency assignment aids. The requirement is for sets of tables and matrices of third order-two signal intermodulation products produced by FAA frequencies in the 118-136 MHz and 225-400 MHz bands. Each of the five project reports will address a specific FAA requirement as to frequency, channel spacing, or method of indexing.

## OBJECTIVE

The objective of this report is to present matrices of third order intermodulation products falling between 118-136 MHz and 225-400 MHz which are produced by all possible pairs of 242 specified UHF frequencies.

# SECTION 2

## RESULTS

The project results are displayed in the pages following. An index appears first in order to aid the user in locating the specific frequency pairs and thence the associated products. The products are of the order $2F_1 - F_2$ or $2F_2 - F_1$. Products which fall outside the 118-136 MHz and the 225-400 MHz bands have been deleted.

Use of the index and matrices is self-explanatory.

# INDEX TO PAGE NUMBERS

| FREQUENCY 2 | 239.00 | 263.00 | 270.30 | 282.30 | 290.40 | 307.25 | 319.15 | 327.00 | 343.95 | 353.55 | 362.30 | 379.20 | 385.45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 239.00 | 1 | | | | | | | | | | | | |
| 263.00 | 2 | 14 | | | | | | | | | | | |
| 270.30 | 3 | 15 | 26 | | | | | | | | | | |
| 282.30 | 4 | 16 | 27 | 37 | | | | | | | | | |
| 290.40 | 5 | 17 | 28 | 38 | 47 | | | | | | | | |
| 307.25 | 6 | 18 | 29 | 39 | 48 | 56 | | | | | | | |
| 319.15 | 7 | 19 | 30 | 40 | 49 | 57 | 64 | | | | | | |
| 327.00 | 8 | 20 | 31 | 41 | 50 | 58 | 65 | 71 | | | | | |
| 343.95 | 9 | 21 | 32 | 42 | 51 | 59 | 66 | 72 | 77 | | | | |
| 353.55 | 10 | 22 | 33 | 43 | 52 | 60 | 67 | 73 | 78 | 82 | | | |
| 362.30 | 11 | 23 | 34 | 44 | 53 | 61 | 68 | 74 | 79 | 83 | 86 | | |
| 379.20 | 12 | 24 | 35 | 45 | 54 | 62 | [illegible] | 75 | 80 | 84 | 87 | 89 | |
| 385.45 | 13 | 25 | 36 | 46 | 55 | 63 | [illegible] | 76 | 81 | 85 | 88 | 90 | 91 |

FREQUENCY 1

THE NUMBER IN EACH RECTANGLE GIVES THE PAGE NUMBER OF A MATRIX OF INTERMODULATION PRODUCTS PRODUCED BY THE MIXTURES OF FREQUENCIES INDICATED BY THE COLUMN AND ROW HEADINGS. THE TWO FREQUENCIES CORRESPONDING TO EACH RECTANGLE ARE THE FIRST PAIR OF FREQUENCIES LISTED ON THE PAGE REPRESENTED BY THE RECTANGLE.

THE UPPER FREQUENCY IN EACH ELEMENT OF EACH PAGE REPRESENTS A $2F_1 - F_2 = F_3$ MIXTURE.

THE LOWER FREQUENCY IN EACH ELEMENT OF EACH PAGE REPRESENTS A $2F_2 - F_1 = F_3$ MIXTURE.

TABLE OF 242 FREQUENCIES FOR WHICH THIRD ORDER-TWO SIGNAL INTERMODULATION PRODUCTS HAVE BEEN COMPUTED

| | | | | | | |
|---|---|---|---|---|---|---|
| 239.00 | 272.70 | 291.60 | 319.95 | 350.20 | 370.95 | 398.90 |
| 239.05 | 272.75 | 291.65 | 322.30 | 350.25 | 371.85 | 398.95 |
| 243.00 | 273.45 | 291.70 | 322.35 | 350.30 | 371.90 | |
| 251.05 | 273.55 | 291.75 | 322.40 | 350.35 | 371.95 | |
| 251.10 | 275.05 | 306.20 | 322.45 | 351.80 | 377.05 | |
| 251.15 | 275.15 | 306.25 | 322.50 | 351.85 | 377.10 | |
| 255.40 | 278.30 | 306.30 | 322.55 | 351.90 | 377.15 | |
| 255.45 | 278.35 | 306.35 | 323.00 | 351.95 | 379.10 | |
| 256.85 | 278.45 | 306.90 | 323.05 | 352.00 | 379.15 | |
| 256.90 | 279.55 | 306.95 | 323.10 | 352.05 | 379.20 | |
| 256.95 | 279.60 | 307.00 | 323.15 | 353.50 | 379.25 | |
| 257.60 | 279.65 | 307.05 | 323.20 | 353.55 | 379.90 | |
| 257.65 | 281.40 | 307.10 | 323.25 | 353.60 | 379.95 | |
| 257.70 | 281.45 | 307.15 | 327.00 | 353.65 | 380.00 | |
| 257.75 | 281.50 | 307.20 | 327.05 | 353.70 | 380.05 | |
| 257.80 | 281.55 | 307.25 | 327.10 | 353.75 | 380.10 | |
| 257.85 | 282.25 | 307.30 | 327.15 | 353.80 | 380.15 | |
| 257.90 | 282.30 | 307.35 | 335.50 | 353.85 | 380.20 | |
| 257.95 | 282.35 | 307.80 | 335.55 | 353.90 | 380.25 | |
| 263.00 | 284.60 | 307.85 | 335.60 | 353.95 | 380.30 | |
| 263.05 | 284.65 | 307.90 | 335.65 | 354.00 | 380.35 | |
| 263.10 | 284.70 | 307.95 | 338.20 | 354.05 | 381.40 | |
| 263.15 | 284.75 | 316.05 | 338.25 | 354.10 | 381.45 | |
| 269.00 | 285.40 | 316.10 | 338.30 | 354.15 | 381.50 | |
| 269.05 | 285.45 | 316.15 | 338.35 | 360.60 | 381.55 | |
| 269.10 | 285.50 | 317.40 | 343.60 | 360.65 | 381.60 | |
| 269.15 | 285.55 | 317.45 | 343.65 | 360.70 | 381.65 | |
| 269.20 | 285.60 | 317.50 | 343.70 | 360.75 | 385.40 | |
| 269.25 | 285.65 | 317.55 | 343.75 | 360.80 | 385.45 | |
| 269.30 | 287.85 | 317.60 | 343.80 | 360.85 | 385.50 | |
| 269.35 | 287.90 | 317.65 | 343.85 | 362.30 | 385.55 | |
| 269.40 | 287.95 | 317.70 | 343.90 | 362.35 | 385.60 | |
| 269.45 | 290.20 | 317.75 | 343.95 | 363.00 | 385.65 | |
| 269.50 | 290.25 | 319.10 | 346.25 | 363.05 | 387.05 | |
| 269.55 | 290.30 | 319.15 | 346.30 | 363.10 | 387.10 | |
| 269.60 | 290.35 | 319.20 | 346.35 | 363.15 | 387.15 | |
| 269.65 | 290.40 | 319.25 | 348.60 | 363.20 | 397.85 | |
| 270.25 | 290.45 | 319.80 | 348.65 | 363.25 | 397.90 | |
| 270.30 | 290.50 | 319.85 | 348.70 | 370.85 | 397.95 | |
| 270.35 | 290.55 | 319.90 | 348.75 | 370.90 | 398.85 | |

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FREQ1  23900 23905 24300 25105 25110 25115 25540 25545 25685 25690 25695 25760 25765 25770 25775 25780 25785 25790 25795
FREQ2
23900


23905  23895
       23910

24300  23500 23510
       24700 24695

25105  22695 22705 23495
       26310 26305 25910

25110  22690 22700 23490 25100
       26320 26315 25920 25115

25115  22685 22695 23485 25095 25105
       26330 26325 25930 25125 25120

25540              23060 24670 24680 24690
       27180 27175 26780 25975 25970 25965

25545              23055 24665 24675 24685 25535
       27190 27185 26790 25985 25980 25975 25550

25685              22915 24525 24535 24545 25395 25405
       27470 27465 27070 26265 26260 26255 25830 25825

25690              22910 24520 24530 24540 25390 25400 25680
       27480 27475 27080 26275 26270 26265 25840 25835 25695

25695              22905 24515 24525 24535 25385 25395 25675 25685
       27490 27485 27090 26285 26280 26275 25850 25845 25705 25700

25760              22840 24450 24460 24470 25320 25330 25610 25620 25630
       27620 27615 27220 26415 26410 26405 25980 25975 25835 25830 25825

25765              22835 24445 24455 24465 25315 25325 25605 25615 25625 25755
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       27650 27645 27250 26445 26440 26435 26010 26005 25865 25860 25855 25790 25785 25780

25780              22820 24430 24440 24450 25300 25310 25590 25600 25610 25740 25750 25760 25770
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25785              22815 24425 24435 24445 25295 25305 25585 25595 25605 25735 25745 25755 25765 25775
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25790              22810 24420 24430 24440 25290 25300 25580 25590 25600 25730 25740 25750 25760 25770 25780
       27680 27675 27280 26475 26470 26465 26040 26035 25895 25890 25885 25820 25815 25810 25805 25800 25795

25795              22805 24415 24425 24435 25285 25295 25575 25585 25595 25725 25735 25745 25755 25765 25775 25785
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| 26305 | | | | 23905 | 23915 | 23925 | 24775 | 24785 | 25065 | 25075 | 25085 | 25215 | 25225 | 25235 | 25245 | 25255 | 25265 | 25275 | 25285 |
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| 26310 | | | | 23900 | 23910 | 23920 | 24770 | 24780 | 25060 | 25070 | 25080 | 25210 | 25220 | 25230 | 25240 | 25250 | 25260 | 25270 | 25280 |
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| 26315 | | | | 23895 | 23905 | 23915 | 24765 | 24775 | 25055 | 25065 | 25075 | 25205 | 25215 | 25225 | 25235 | 25245 | 25255 | 25265 | 25275 |
| | 28730 | 28725 | 28330 | 27525 | 27520 | 27515 | 27090 | 27085 | 26945 | 26940 | 26935 | 26870 | 26865 | 26860 | 26855 | 26850 | 26845 | 26840 | 26835 |
| 26900 | | | | 23310 | 23320 | 23330 | 24180 | 24190 | 24470 | 24480 | 24490 | 24620 | 24630 | 24640 | 24650 | 24660 | 24670 | 24680 | 24690 |
| | 29900 | 29895 | 29500 | 28695 | 28690 | 28685 | 28260 | 28255 | 28115 | 28110 | 28105 | 28040 | 28035 | 28030 | 28025 | 28020 | 28015 | 28010 | 28005 |
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| 27275 | | | | 22935 | 22945 | 22955 | 23805 | 23815 | 24095 | 24105 | 24115 | 24245 | 24255 | 24265 | 24275 | 24285 | 24295 | 24305 | 24315 |
| | 30650 | 30645 | 30250 | 29445 | 29440 | 29435 | 29010 | 29005 | 28865 | 28860 | 28855 | 28790 | 28785 | 28780 | 28775 | 28770 | 28765 | 28760 | 28755 |
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| 27835 | | | | | | | 23245 | 23255 | 23535 | 23545 | 23555 | 23685 | 23695 | 23705 | 23715 | 23725 | 23735 | 23745 | 23755 |
| | 31770 | 31765 | 31370 | 30565 | 30560 | 30555 | 30130 | 30125 | 29985 | 29980 | 29975 | 29910 | 29905 | 29900 | 29895 | 29890 | 29885 | 29880 | 29875 |
| 27845 | | | | | | | 23235 | 23245 | 23525 | 23535 | 23545 | 23675 | 23685 | 23695 | 23705 | 23715 | 23725 | 23735 | 23745 |
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| 34370 | 13430 | 13440 | | | | | | | | | | | | | | | | | |
| 34375 | 13425 | 13435 | | | | | | | | | | | | | | | | | |
| 34380 | 13420 | 13430 | | | | | | | | | | | | | | | | | |
| 34385 | 13415 | 13425 | | | | | | | | | | | | | | | | | |
| 34390 | 13410 | 13420 | | | | | | | | | | | | | | | | | |

```
FREQ1  23900 23905 24300 25105 25110 25115 25540 25545 25685 25690 25695 25760 25765 25770 25775 25780 25785 25790 25795
FREQ2
34395  13405 13415

34625  13175 13185

34630  13170 13180

34635  13165 13175

34860  12940 12950

34865  12935 12945

34870  12930 12940

34875  12925 12935

35020  12780 12790 13580

35025  12775 12785 13575

35030  12770 12780 13570

35035  12765 12775 13565

35180  12620 12630 13420

35185  12615 12625 13415

35190  12610 12620 13410

35195  12605 12615 13405

35200  12600 12610 13400

35205  12595 12605 13395

35350  12450 12460 13250
```

9

9

```
FREQ1   23900 23905 24300 25105 25110 25115 25540 25545 25685 25690 25695 25760 25765 25770 25775 25780 25785 25790 25795
FREQ2
35355   12445 12455 13245

35360   12440 12450 13240

35365   12435 12445 13235

35370   12430 12440 13230

35375   12425 12435 13225

35380   12420 12430 13220

35385   12415 12425 13215

35390   12410 12420 13210

35395   12405 12415 13205

35400   12400 12410 13200

35405   12395 12405 13195

35410   12390 12400 13190

35415   12385 12395 13185

36060                 12540

36065                 12535

36070                 12530

36075                 12525

36080                 12520

36085                 12515
```

10

10

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FREQ1 | 23900 | 23905 | 24300 | 25105 | 25110 | 25115 | 25540 | 25545 | 25685 | 25690 | 25695 | 25760 | 25765 | 25770 | 25775 | 25780 | 25785 | 25790 | 25795 | |
| FREQ2 | | | | | | | | | | | | | | | | | | | | |
| 36230 | | | 12370 | | | | | | | | | | | | | | | | | |
| 36235 | | | 12365 | | | | | | | | | | | | | | | | | |
| 36300 | | | 12300 | | | | | | | | | | | | | | | | | |
| 36305 | | | 12295 | | | | | | | | | | | | | | | | | |
| 36310 | | | 12290 | | | | | | | | | | | | | | | | | |
| 36315 | | | 12285 | | | | | | | | | | | | | | | | | |
| 36320 | | | 12280 | | | | | | | | | | | | | | | | | |
| 36325 | | | 12275 | | | | | | | | | | | | | | | | | |
| 37085 | | | | 13125 | 13135 | 13145 | | | | | | | | | | | | | | |
| 37090 | | | | 13120 | 13130 | 13140 | | | | | | | | | | | | | | |
| 37095 | | | | 13115 | 13125 | 13135 | | | | | | | | | | | | | | |
| 37185 | | | | 13025 | 13035 | 13045 | | | | | | | | | | | | | | |
| 37190 | | | | 13020 | 13030 | 13040 | | | | | | | | | | | | | | |
| 37195 | | | | 13015 | 13025 | 13035 | | | | | | | | | | | | | | |
| 37705 | | | | 12505 | 12515 | 12525 | 13375 | 13385 | | | | | | | | | | | | |
| 37710 | | | | 12500 | 12510 | 12520 | 13370 | 13380 | | | | | | | | | | | | |
| 37715 | | | | 12495 | 12505 | 12515 | 13365 | 13375 | | | | | | | | | | | | |
| 37910 | | | | 12300 | 12310 | 12320 | 13170 | 13180 | 13460 | 13470 | 13480 | | | | | | | | | |
| 37915 | | | | 12295 | 12305 | 12315 | 13165 | 13175 | 13455 | 13465 | 13475 | | | | | | | | | |

11

11

```
FREQ1  23900 23905 24300 25105 25110 25115 25540 25545 25685 25690 25695 25760 25765 25770 25775 25780 25785 25790 25795
FREQ2
37920                    12290 12300 12310 13160 13170 13450 13460 13470 13600

37925                    12285 12295 12305 13155 13165 13445 13455 13465 13595

37990                    12220 12230 12240 13090 13100 13380 13390 13400 13530 13540 13550 13560 13570 13580 13590 13600

37995                    12215 12225 12235 13085 13095 13375 13385 13395 13525 13535 13545 13555 13565 13575 13585 13595

38000                    12210 12220 12230 13080 13090 13370 13380 13390 13520 13530 13540 13550 13560 13570 13580 13590

38005                    12205 12215 12225 13075 13085 13365 13375 13385 13515 13525 13535 13545 13555 13565 13575 13585

38010                    12200 12210 12220 13070 13080 13360 13370 13380 13510 13520 13530 13540 13550 13560 13570 13580

38015                    12195 12205 12215 13065 13075 13355 13365 13375 13505 13515 13525 13535 13545 13555 13565 13575

38020                    12190 12200 12210 13060 13070 13350 13360 13370 13500 13510 13520 13530 13540 13550 13560 13570

38025                    12185 12195 12205 13055 13065 13345 13355 13365 13495 13505 13515 13525 13535 13545 13555 13565

38030                    12180 12190 12200 13050 13060 13340 13350 13360 13490 13500 13510 13520 13530 13540 13550 13560

38035                    12175 12185 12195 13045 13055 13335 13345 13355 13485 13495 13505 13515 13525 13535 13545 13555

38140                    12070 12080 12090 12940 12950 13230 13240 13250 13380 13390 13400 13410 13420 13430 13440 13450

38145                    12065 12075 12085 12935 12945 13225 13235 13245 13375 13385 13395 13405 13415 13425 13435 13445

38150                    12060 12070 12080 12930 12940 13220 13230 13240 13370 13380 13390 13400 13410 13420 13430 13440

38155                    12055 12065 12075 12925 12935 13215 13225 13235 13365 13375 13385 13395 13405 13415 13425 13435

38160                    12050 12060 12070 12920 12930 13210 13220 13230 13360 13370 13380 13390 13400 13410 13420 13430

38165                    12045 12055 12065 12915 12925 13205 13215 13225 13355 13365 13375 13385 13395 13405 13415 13425

38540                              12540 12550 12830 12840 12850 12980 12990 13000 13010 13020 13030 13040 13050
```

12

12

| FREQ1 | 23900 | 23905 | 24300 | 25105 | 25110 | 25115 | 25540 | 25545 | 25685 | 25690 | 25695 | 25760 | 25765 | 25770 | 25775 | 25780 | 25785 | 25790 | 25795 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 38545 | | | | | | | 12535 | 12545 | 12825 | 12835 | 12845 | 12975 | 12985 | 12995 | 13005 | 13015 | 13025 | 13035 | 13045 |
| 38550 | | | | | | | 12530 | 12540 | 12820 | 12830 | 12840 | 12970 | 12980 | 12990 | 13000 | 13010 | 13020 | 13030 | 13040 |
| 38555 | | | | | | | 12525 | 12535 | 12815 | 12825 | 12835 | 12965 | 12975 | 12985 | 12995 | 13005 | 13015 | 13025 | 13035 |
| 38560 | | | | | | | 12520 | 12530 | 12810 | 12820 | 12830 | 12960 | 12970 | 12980 | 12990 | 13000 | 13010 | 13020 | 13030 |
| 38565 | | | | | | | 12515 | 12525 | 12805 | 12815 | 12825 | 12955 | 12965 | 12975 | 12985 | 12995 | 13005 | 13015 | 13025 |
| 38705 | | | | | | | 12375 | 12385 | 12665 | 12675 | 12685 | 12815 | 12825 | 12835 | 12845 | 12855 | 12865 | 12875 | 12885 |
| 38710 | | | | | | | 12370 | 12380 | 12660 | 12670 | 12680 | 12810 | 12820 | 12830 | 12840 | 12850 | 12860 | 12870 | 12880 |
| 38715 | | | | | | | 12365 | 12375 | 12655 | 12665 | 12675 | 12805 | 12815 | 12825 | 12835 | 12845 | 12855 | 12865 | 12875 |
| 39785 | | | | | | | | | | | | | | | | | | | 11805 |
| 39790 | | | | | | | | | | | | | | | | | | | 11800 |
| 39795 | | | | | | | | | | | | | | | | | | | |
| 39885 | | | | | | | | | | | | | | | | | | | |
| 39890 | | | | | | | | | | | | | | | | | | | |
| 39895 | | | | | | | | | | | | | | | | | | | |

13

13

```
FREQ1  26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
26300


26305  26295
       26310

26310  26290 26300
       26320 26315

26315  26285 26295 26305
       26330 26325 26320

26900  25700 25710 25720 25730
       27500 27495 27490 27485

26905  25695 25705 25715 25725 26895
       27510 27505 27500 27495 26910

26910  25690 25700 25710 25720 26890 26900
       27520 27515 27510 27505 26920 26915

26915  25685 25695 25705 25715 26885 26895 26905
       27530 27525 27520 27515 26930 26925 26920

26920  25680 25690 25700 25710 26880 26890 26900 26910
       27540 27535 27530 27525 26940 26935 26930 26925

26925  25675 25685 25695 25705 26875 26885 26895 26905 26915
       27550 27545 27540 27535 26950 26945 26940 26935 26930

26930  25670 25680 25690 25700 26870 26880 26890 26900 26910 26920
       27560 27555 27550 27545 26960 26955 26950 26945 26940 26935

26935  25665 25675 25685 25695 26865 26875 26885 26895 26905 26915 26925
       27570 27565 27560 27555 26970 26965 26960 26955 26950 26945 26940

26940  25660 25670 25680 25690 26860 26870 26880 26890 26900 26910 26920 26930
       27580 27575 27570 27565 26980 26975 26970 26965 26960 26955 26950 26945

26945  25655 25665 25675 25685 26855 26865 26875 26885 26895 26905 26915 26925 26935
       27590 27585 27580 27575 26990 26985 26980 26975 26970 26965 26960 26955 26950

26950  25650 25660 25670 25680 26850 26860 26870 26880 26890 26900 26910 26920 26930 26940
       27600 27595 27590 27585 27000 26995 26990 26985 26980 26975 26970 26965 26960 26955

26955  25645 25655 25665 25675 26845 26855 26865 26875 26885 26895 26905 26915 26925 26935 26945
       27610 27605 27600 27595 27010 27005 27000 26995 26990 26985 26980 26975 26970 26965 26960

26960  25640 25650 25660 25670 26840 26850 26860 26870 26880 26890 26900 26910 26920 26930 26940 26950
       27620 27615 27610 27605 27020 27015 27010 27005 27000 26995 26990 26985 26980 26975 26970 26965

26965  25635 25645 25655 25665 26835 26845 26855 26865 26875 26885 26895 26905 26915 26925 26935 26945 26955
       27630 27625 27620 27615 27030 27025 27020 27015 27010 27005 27000 26995 26990 26985 26980 26975 26970

27025  25575 25585 25595 25605 26775 26785 26795 26805 26815 26825 26835 26845 26855 26865 26875 26885 26895 26905
       27750 27745 27740 27735 27150 27145 27140 27135 27130 27125 27120 27115 27110 27105 27100 27095 27090 27085
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14

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FREQ1  26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
27030  25570 25580 25590 25600 26770 26780 26790 26800 26810 26820 26830 26840 26850 26860 26870 26880 26890 26900 27020
       27760 27755 27750 27745 27160 27155 27150 27145 27140 27135 27130 27125 27120 27115 27110 27105 27100 27095 27035

27035  25565 25575 25585 25595 26765 26775 26785 26795 26805 26815 26825 26835 26845 26855 26865 26875 26885 26895 27015
       27770 27765 27760 27755 27170 27165 27160 27155 27150 27145 27140 27135 27130 27125 27120 27115 27110 27105 27045

27270  25330 25340 25350 25360 26530 26540 26550 26560 26570 26580 26590 26600 26610 26620 26630 26640 26650 26660 26780
       28240 28235 28230 28225 27640 27635 27630 27625 27620 27615 27610 27605 27600 27595 27590 27585 27580 27575 27515

27275  25325 25335 25345 25355 26525 26535 26545 26555 26565 26575 26585 26595 26605 26615 26625 26635 26645 26655 26775
       28250 28245 28240 28235 27650 27645 27640 27635 27630 27625 27620 27615 27610 27605 27600 27595 27590 27585 27525

27345  25255 25265 25275 25285 26455 26465 26475 26485 26495 26505 26515 26525 26535 26545 26555 26565 26575 26585 26705
       28390 28385 28380 28375 27790 27785 27780 27775 27770 27765 27760 27755 27750 27745 27740 27735 27730 27725 27665

27355  25245 25255 25265 25275 26445 26455 26465 26475 26485 26495 26505 26515 26525 26535 26545 26555 26565 26575 26695
       28410 28405 28400 28395 27810 27805 27800 27795 27790 27785 27780 27775 27770 27765 27760 27755 27750 27745 27685

27505  25095 25105 25115 25125 26295 26305 26315 26325 26335 26345 26355 26365 26375 26385 26395 26405 26415 26425 26545
       28710 28705 28700 28695 28110 28105 28100 28095 28090 28085 28080 28075 28070 28065 28060 28055 28050 28045 27985

15 27515  25085 25095 25105 25115 26285 26295 26305 26315 26325 26335 26345 26355 26365 26375 26385 26395 26405 26415 26535
       28730 28725 28720 28715 28130 28125 28120 28115 28110 28105 28100 28095 28090 28085 28080 28075 28070 28065 28005

27830  24770 24780 24790 24800 25970 25980 25990 26000 26010 26020 26030 26040 26050 26060 26070 26080 26090 26100 26220
       29360 29355 29350 29345 28760 28755 28750 28745 28740 28735 28730 28725 28720 28715 28710 28705 28700 28695 28635

27835  24765 24775 24785 24795 25965 25975 25985 25995 26005 26015 26025 26035 26045 26055 26065 26075 26085 26095 26215
       29370 29365 29360 29355 28770 28765 28760 28755 28750 28745 28740 28735 28730 28725 28720 28715 28710 28705 28645

27845  24755 24765 24775 24785 25955 25965 25975 25985 25995 26005 26015 26025 26035 26045 26055 26065 26075 26085 26205
       29390 29385 29380 29375 28790 28785 28780 28775 28770 28765 28760 28755 28750 28745 28740 28735 28730 28725 28665

27955  24645 24655 24665 24675 25845 25855 25865 25875 25885 25895 25905 25915 25925 25935 25945 25955 25965 25975 26095
       29610 29605 29600 29595 29010 29005 29000 28995 28990 28985 28980 28975 28970 28965 28960 28955 28950 28945 28885

27960  24640 24650 24660 24670 25840 25850 25860 25870 25880 25890 25900 25910 25920 25930 25940 25950 25960 25970 26090
       29620 29615 29610 29605 29020 29015 29010 29005 29000 28995 28990 28985 28980 28975 28970 28965 28960 28955 28895

27965  24635 24645 24655 24665 25835 25845 25855 25865 25875 25885 25895 25905 25915 25925 25935 25945 25955 25965 26085
       29630 29625 29620 29615 29030 29025 29020 29015 29010 29005 29000 28995 28990 28985 28980 28975 28970 28965 28905

28140  24460 24470 24480 24490 25660 25670 25680 25690 25700 25710 25720 25730 25740 25750 25760 25770 25780 25790 25910
       29980 29975 29970 29965 29380 29375 29370 29365 29360 29355 29350 29345 29340 29335 29330 29325 29320 29315 29255

28145  24455 24465 24475 24485 25655 25665 25675 25685 25695 25705 25715 25725 25735 25745 25755 25765 25775 25785 25905
       29990 29985 29980 29975 29390 29385 29380 29375 29370 29365 29360 29355 29350 29345 29340 29335 29330 29325 29265

28150  24450 24460 24470 24480 25650 25660 25670 25680 25690 25700 25710 25720 25730 25740 25750 25760 25770 25780 25900
       30000 29995 29990 29985 29400 29395 29390 29385 29380 29375 29370 29365 29360 29355 29350 29345 29340 29335 29275

28155  24445 24455 24465 24475 25645 25655 25665 25675 25685 25695 25705 25715 25725 25735 25745 25755 25765 25775 25895
       30010 30005 30000 29995 29410 29405 29400 29395 29390 29385 29380 29375 29370 29365 29360 29355 29350 29345 29285

28225  24375 24385 24395 24405 25575 25585 25595 25605 25615 25625 25635 25645 25655 25665 25675 25685 25695 25705 25825
       30150 30145 30140 30135 29550 29545 29540 29535 29530 29525 29520 29515 29510 29505 29500 29495 29490 29485 29425
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15

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FREQ1 | 26300 | 26305 | 26310 | 26315 | 26900 | 26905 | 26910 | 26915 | 26920 | 26925 | 26930 | 26935 | 26940 | 26945 | 26950 | 26955 | 26960 | 26965 | 27025 |
| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 28230 | 24370 | 24380 | 24390 | 24400 | 25570 | 25580 | 25590 | 25600 | 25610 | 25620 | 25630 | 25640 | 25650 | 25660 | 25670 | 25680 | 25690 | 25700 | 25820 |
| | 30160 | 30155 | 30150 | 30145 | 29560 | 29555 | 29550 | 29545 | 29540 | 29535 | 29530 | 29525 | 29520 | 29515 | 29510 | 29505 | 29500 | 29495 | 29435 |
| 28235 | 24365 | 24375 | 24385 | 24395 | 25565 | 25575 | 25585 | 25595 | 25605 | 25615 | 25625 | 25635 | 25645 | 25655 | 25665 | 25675 | 25685 | 25695 | 25815 |
| | 30170 | 30165 | 30160 | 30155 | 29570 | 29565 | 29560 | 29555 | 29550 | 29545 | 29540 | 29535 | 29530 | 29525 | 29520 | 29515 | 29510 | 29505 | 29445 |
| 28460 | 24140 | 24150 | 24160 | 24170 | 25340 | 25350 | 25360 | 25370 | 25380 | 25390 | 25400 | 25410 | 25420 | 25430 | 25440 | 25450 | 25460 | 25470 | 25590 |
| | 30620 | 30615 | 30610 | 30605 | 30020 | 30015 | 30010 | 30005 | 30000 | 29995 | 29990 | 29985 | 29980 | 29975 | 29970 | 29965 | 29960 | 29955 | 29895 |
| 28465 | 24135 | 24145 | 24155 | 24165 | 25335 | 25345 | 25355 | 25365 | 25375 | 25385 | 25395 | 25405 | 25415 | 25425 | 25435 | 25445 | 25455 | 25465 | 25585 |
| | 30630 | 30625 | 30620 | 30615 | 30030 | 30025 | 30020 | 30015 | 30010 | 30005 | 30000 | 29995 | 29990 | 29985 | 29980 | 29975 | 29970 | 29965 | 29905 |
| 28470 | 24130 | 24140 | 24150 | 24160 | 25330 | 25340 | 25350 | 25360 | 25370 | 25380 | 25390 | 25400 | 25410 | 25420 | 25430 | 25440 | 25450 | 25460 | 25580 |
| | 30640 | 30635 | 30630 | 30625 | 30040 | 30035 | 30030 | 30025 | 30020 | 30015 | 30010 | 30005 | 30000 | 29995 | 29990 | 29985 | 29980 | 29975 | 29915 |
| 28475 | 24125 | 24135 | 24145 | 24155 | 25325 | 25335 | 25345 | 25355 | 25365 | 25375 | 25385 | 25395 | 25405 | 25415 | 25425 | 25435 | 25445 | 25455 | 25575 |
| | 30650 | 30645 | 30640 | 30635 | 30050 | 30045 | 30040 | 30035 | 30030 | 30025 | 30020 | 30015 | 30010 | 30005 | 30000 | 29995 | 29990 | 29985 | 29925 |
| 28540 | 24060 | 24070 | 24080 | 24090 | 25260 | 25270 | 25280 | 25290 | 25300 | 25310 | 25320 | 25330 | 25340 | 25350 | 25360 | 25370 | 25380 | 25390 | 25510 |
| | 30780 | 30775 | 30770 | 30765 | 30180 | 30175 | 30170 | 30165 | 30160 | 30155 | 30150 | 30145 | 30140 | 30135 | 30130 | 30125 | 30120 | 30115 | 30055 |
| 28545 | 24055 | 24065 | 24075 | 24085 | 25255 | 25265 | 25275 | 25285 | 25295 | 25305 | 25315 | 25325 | 25335 | 25345 | 25355 | 25365 | 25375 | 25385 | 25505 |
| | 30790 | 30785 | 30780 | 30775 | 30190 | 30185 | 30180 | 30175 | 30170 | 30165 | 30160 | 30155 | 30150 | 30145 | 30140 | 30135 | 30130 | 30125 | 30065 |
| 28550 | 24050 | 24060 | 24070 | 24080 | 25250 | 25260 | 25270 | 25280 | 25290 | 25300 | 25310 | 25320 | 25330 | 25340 | 25350 | 25360 | 25370 | 25380 | 25500 |
| | 30800 | 30795 | 30790 | 30785 | 30200 | 30195 | 30190 | 30185 | 30180 | 30175 | 30170 | 30165 | 30160 | 30155 | 30150 | 30145 | 30140 | 30135 | 30075 |
| 28555 | 24045 | 24055 | 24065 | 24075 | 25245 | 25255 | 25265 | 25275 | 25285 | 25295 | 25305 | 25315 | 25325 | 25335 | 25345 | 25355 | 25365 | 25375 | 25495 |
| | 30810 | 30805 | 30800 | 30795 | 30210 | 30205 | 30200 | 30195 | 30190 | 30185 | 30180 | 30175 | 30170 | 30165 | 30160 | 30155 | 30150 | 30145 | 30085 |
| 28560 | 24040 | 24050 | 24060 | 24070 | 25240 | 25250 | 25260 | 25270 | 25280 | 25290 | 25300 | 25310 | 25320 | 25330 | 25340 | 25350 | 25360 | 25370 | 25490 |
| | 30820 | 30815 | 30810 | 30805 | 30220 | 30215 | 30210 | 30205 | 30200 | 30195 | 30190 | 30185 | 30180 | 30175 | 30170 | 30165 | 30160 | 30155 | 30095 |
| 28565 | 24035 | 24045 | 24055 | 24065 | 25235 | 25245 | 25255 | 25265 | 25275 | 25285 | 25295 | 25305 | 25315 | 25325 | 25335 | 25345 | 25355 | 25365 | 25485 |
| | 30830 | 30825 | 30820 | 30815 | 30230 | 30225 | 30220 | 30215 | 30210 | 30205 | 30200 | 30195 | 30190 | 30185 | 30180 | 30175 | 30170 | 30165 | 30105 |
| 28785 | 23815 | 23825 | 23835 | 23845 | 25015 | 25025 | 25035 | 25045 | 25055 | 25065 | 25075 | 25085 | 25095 | 25105 | 25115 | 25125 | 25135 | 25145 | 25265 |
| | 31270 | 31265 | 31260 | 31255 | 30670 | 30665 | 30660 | 30655 | 30650 | 30645 | 30640 | 30635 | 30630 | 30625 | 30620 | 30615 | 30610 | 30605 | 30545 |
| 28790 | 23810 | 23820 | 23830 | 23840 | 25010 | 25020 | 25030 | 25040 | 25050 | 25060 | 25070 | 25080 | 25090 | 25100 | 25110 | 25120 | 25130 | 25140 | 25260 |
| | 31280 | 31275 | 31270 | 31265 | 30680 | 30675 | 30670 | 30665 | 30660 | 30655 | 30650 | 30645 | 30640 | 30635 | 30630 | 30625 | 30620 | 30615 | 30555 |
| 28795 | 23805 | 23815 | 23825 | 23835 | 25005 | 25015 | 25025 | 25035 | 25045 | 25055 | 25065 | 25075 | 25085 | 25095 | 25105 | 25115 | 25125 | 25135 | 25255 |
| | 31290 | 31285 | 31280 | 31275 | 30690 | 30685 | 30680 | 30675 | 30670 | 30665 | 30660 | 30655 | 30650 | 30645 | 30640 | 30635 | 30630 | 30625 | 30565 |
| 29020 | 23580 | 23590 | 23600 | 23610 | 24780 | 24790 | 24800 | 24810 | 24820 | 24830 | 24840 | 24850 | 24860 | 24870 | 24880 | 24890 | 24900 | 24910 | 25030 |
| | 31740 | 31735 | 31730 | 31725 | 31140 | 31135 | 31130 | 31125 | 31120 | 31115 | 31110 | 31105 | 31100 | 31095 | 31090 | 31085 | 31080 | 31075 | 31015 |
| 29025 | 23575 | 23585 | 23595 | 23605 | 24775 | 24785 | 24795 | 24805 | 24815 | 24825 | 24835 | 24845 | 24855 | 24865 | 24875 | 24885 | 24895 | 24905 | 25025 |
| | 31750 | 31745 | 31740 | 31735 | 31150 | 31145 | 31140 | 31135 | 31130 | 31125 | 31120 | 31115 | 31110 | 31105 | 31100 | 31095 | 31090 | 31085 | 31025 |
| 29030 | 23570 | 23580 | 23590 | 23600 | 24770 | 24780 | 24790 | 24800 | 24810 | 24820 | 24830 | 24840 | 24850 | 24860 | 24870 | 24880 | 24890 | 24900 | 25020 |
| | 31760 | 31755 | 31750 | 31745 | 31160 | 31155 | 31150 | 31145 | 31140 | 31135 | 31130 | 31125 | 31120 | 31115 | 31110 | 31105 | 31100 | 31095 | 31035 |
| 29035 | 23565 | 23575 | 23585 | 23595 | 24765 | 24775 | 24785 | 24795 | 24805 | 24815 | 24825 | 24835 | 24845 | 24855 | 24865 | 24875 | 24885 | 24895 | 25015 |
| | 31770 | 31765 | 31760 | 31755 | 31170 | 31165 | 31160 | 31155 | 31150 | 31145 | 31140 | 31135 | 31130 | 31125 | 31120 | 31115 | 31110 | 31105 | 31045 |



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| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FREQ1 | 26300 | 26305 | 26310 | 26315 | 26900 | 26905 | 26910 | 26915 | 26920 | 26925 | 26930 | 26935 | 26940 | 26945 | 26950 | 26955 | 26960 | 26965 | 27025 |
| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 29040 | 23560 | 23570 | 23580 | 23590 | 24760 | 24770 | 24780 | 24790 | 24800 | 24810 | 24820 | 24830 | 24840 | 24850 | 24860 | 24870 | 24880 | 24890 | 25010 |
| | 31780 | 31775 | 31770 | 31765 | 31180 | 31175 | 31170 | 31165 | 31160 | 31155 | 31150 | 31145 | 31140 | 31135 | 31130 | 31125 | 31120 | 31115 | 31055 |
| 29045 | 23555 | 23565 | 23575 | 23585 | 24755 | 24765 | 24775 | 24785 | 24795 | 24805 | 24815 | 24825 | 24835 | 24845 | 24855 | 24865 | 24875 | 24885 | 25005 |
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| 29050 | 23550 | 23560 | 23570 | 23580 | 24750 | 24760 | 24770 | 24780 | 24790 | 24800 | 24810 | 24820 | 24830 | 24840 | 24850 | 24860 | 24870 | 24880 | 25000 |
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| | 31810 | 31805 | 31800 | 31795 | 31210 | 31205 | 31200 | 31195 | 31190 | 31185 | 31180 | 31175 | 31170 | 31165 | 31160 | 31155 | 31150 | 31145 | 31085 |
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| | 32020 | 32015 | 32010 | 32005 | 31420 | 31415 | 31410 | 31405 | 31400 | 31395 | 31390 | 31385 | 31380 | 31375 | 31370 | 31365 | 31360 | 31355 | 31295 |
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| | 32040 | 32035 | 32030 | 32025 | 31440 | 31435 | 31430 | 31425 | 31420 | 31415 | 31410 | 31405 | 31400 | 31395 | 31390 | 31385 | 31380 | 31375 | 31315 |
| 29175 | 23425 | 23435 | 23445 | 23455 | 24625 | 24635 | 24645 | 24655 | 24665 | 24675 | 24685 | 24695 | 24705 | 24715 | 24725 | 24735 | 24745 | 24755 | 24875 |
| | 32050 | 32045 | 32040 | 32035 | 31450 | 31445 | 31440 | 31435 | 31430 | 31425 | 31420 | 31415 | 31410 | 31405 | 31400 | 31395 | 31390 | 31385 | 31325 |
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| | 35090 | 35085 | 35080 | 35075 | 34490 | 34485 | 34480 | 34475 | 34470 | 34465 | 34460 | 34455 | 34450 | 34445 | 34440 | 34435 | 34430 | 34425 | 34365 |
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| 30715 | | | | | 23085 | 23095 | 23105 | 23115 | 23125 | 23135 | 23145 | 23155 | 23165 | 23175 | 23185 | 23195 | 23205 | 23215 | 23335 |
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17

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FREQ1  26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
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       35150 35145 35140 35135 34550 34545 34540 34535 34530 34525 34520 34515 34510 34505 34500 34495 34490 34485 34425

30730                                23070 23080 23090 23100 23110 23120 23130 23140 23150 23160 23170 23180 23190 23200 23320
       35160 35155 35150 35145 34560 34555 34550 34545 34540 34535 34530 34525 34520 34515 34510 34505 34500 34495 34435

30735                                23065 23075 23085 23095 23105 23115 23125 23135 23145 23155 23165 23175 23185 23195 23315
       35170 35165 35160 35155 34570 34565 34560 34555 34550 34545 34540 34535 34530 34525 34520 34515 34510 34505 34445

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       35270 35265 35260 35255 34670 34665 34660 34655 34650 34645 34640 34635 34630 34625 34620 34615 34610 34605 34545

30790                                23010 23020 23030 23040 23050 23060 23070 23080 23090 23100 23110 23120 23130 23140 23260
       35280 35275 35270 35265 34680 34675 34670 34665 34660 34655 34650 34645 34640 34635 34630 34625 34620 34615 34555

30795                                23005 23015 23025 23035 23045 23055 23065 23075 23085 23095 23105 23115 23125 23135 23255
       35290 35285 35280 35275 34690 34685 34680 34675 34670 34665 34660 34655 34650 34645 34640 34635 34630 34625 34565

31605
       36910 36905 36900 36895 36310 36305 36300 36295 36290 36285 36280 36275 36270 36265 36260 36255 36250 36245 36185

18 31610                                                                                                                  18
       36920 36915 36910 36905 36320 36315 36310 36305 36300 36295 36290 36285 36280 36275 36270 36265 36260 36255 36195

31615
       36930 36925 36920 36915 36330 36325 36320 36315 36310 36305 36300 36295 36290 36285 36280 36275 36270 36265 36205

31740
       37180 37175 37170 37165 36580 36575 36570 36565 36560 36555 36550 36545 36540 36535 36530 36525 36520 36515 36455

31745
       37190 37185 37180 37175 36590 36585 36580 36575 36570 36565 36560 36555 36550 36545 36540 36535 36530 36525 36465

31750
       37200 37195 37190 37185 36600 36595 36590 36585 36580 36575 36570 36565 36560 36555 36550 36545 36540 36535 36475

31755
       37210 37205 37200 37195 36610 36605 36600 36595 36590 36585 36580 36575 36570 36565 36560 36555 36550 36545 36485

31760
       37220 37215 37210 37205 36620 36615 36610 36605 36600 36595 36590 36585 36580 36575 36570 36565 36560 36555 36495

31765
       37230 37225 37220 37215 36630 36625 36620 36615 36610 36605 36600 36595 36590 36585 36580 36575 36570 36565 36505

31770
       37240 37235 37230 37225 36640 36635 36630 36625 36620 36615 36610 36605 36600 36595 36590 36585 36580 36575 36515

31775
       37250 37245 37240 37235 36650 36645 36640 36635 36630 36625 36620 36615 36610 36605 36600 36595 36590 36585 36525

31910
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| FREQ1 / FREQ2 | 26300 | 26305 | 26310 | 26315 | 26900 | 26905 | 26910 | 26915 | 26920 | 26925 | 26930 | 26935 | 26940 | 26945 | 26950 | 26955 | 26960 | 26965 | 27025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31915 | 37530 | 37525 | 37520 | 37515 | 36930 | 36925 | 36920 | 36915 | 36910 | 36905 | 36900 | 36895 | 36890 | 36885 | 36880 | 36875 | 36870 | 36865 | 36805 |
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| 31925 | 37550 | 37545 | 37540 | 37535 | 36950 | 36945 | 36940 | 36935 | 36930 | 36925 | 36920 | 36915 | 36910 | 36905 | 36900 | 36895 | 36890 | 36885 | 36825 |
| 31980 | 37660 | 37655 | 37650 | 37645 | 37060 | 37055 | 37050 | 37045 | 37040 | 37035 | 37030 | 37025 | 37020 | 37015 | 37010 | 37005 | 37000 | 36995 | 36935 |
| 31985 | 37670 | 37665 | 37660 | 37655 | 37070 | 37065 | 37060 | 37055 | 37050 | 37045 | 37040 | 37035 | 37030 | 37025 | 37020 | 37015 | 37010 | 37005 | 36945 |
| 31990 | 37680 | 37675 | 37670 | 37665 | 37080 | 37075 | 37070 | 37065 | 37060 | 37055 | 37050 | 37045 | 37040 | 37035 | 37030 | 37025 | 37020 | 37015 | 36955 |
| 31995 | 37690 | 37685 | 37680 | 37675 | 37090 | 37085 | 37080 | 37075 | 37070 | 37065 | 37060 | 37055 | 37050 | 37045 | 37040 | 37035 | 37030 | 37025 | 36965 |
| 32230 | 38160 | 38155 | 38150 | 38145 | 37560 | 37555 | 37550 | 37545 | 37540 | 37535 | 37530 | 37525 | 37520 | 37515 | 37510 | 37505 | 37500 | 37495 | 37435 |
| 32235 | 38170 | 38165 | 38160 | 38155 | 37570 | 37565 | 37560 | 37555 | 37550 | 37545 | 37540 | 37535 | 37530 | 37525 | 37520 | 37515 | 37510 | 37505 | 37445 |
| 32240 | 38180 | 38175 | 38170 | 38165 | 37580 | 37575 | 37570 | 37565 | 37560 | 37555 | 37550 | 37545 | 37540 | 37535 | 37530 | 37525 | 37520 | 37515 | 37455 |
| 32245 | 38190 | 38185 | 38180 | 38175 | 37590 | 37585 | 37580 | 37575 | 37570 | 37565 | 37560 | 37555 | 37550 | 37545 | 37540 | 37535 | 37530 | 37525 | 37465 |
| 32250 | 38200 | 38195 | 38190 | 38185 | 37600 | 37595 | 37590 | 37585 | 37580 | 37575 | 37570 | 37565 | 37560 | 37555 | 37550 | 37545 | 37540 | 37535 | 37475 |
| 32255 | 38210 | 38205 | 38200 | 38195 | 37610 | 37605 | 37600 | 37595 | 37590 | 37585 | 37580 | 37575 | 37570 | 37565 | 37560 | 37555 | 37550 | 37545 | 37485 |
| 32300 | 38300 | 38295 | 38290 | 38285 | 37700 | 37695 | 37690 | 37685 | 37680 | 37675 | 37670 | 37665 | 37660 | 37655 | 37650 | 37645 | 37640 | 37635 | 37575 |
| 32305 | 38310 | 38305 | 38300 | 38295 | 37710 | 37705 | 37700 | 37695 | 37690 | 37685 | 37680 | 37675 | 37670 | 37665 | 37660 | 37655 | 37650 | 37645 | 37585 |
| 32310 | 38320 | 38315 | 38310 | 38305 | 37720 | 37715 | 37710 | 37705 | 37700 | 37695 | 37690 | 37685 | 37680 | 37675 | 37670 | 37665 | 37660 | 37655 | 37595 |
| 32315 | 38330 | 38325 | 38320 | 38315 | 37730 | 37725 | 37720 | 37715 | 37710 | 37705 | 37700 | 37695 | 37690 | 37685 | 37680 | 37675 | 37670 | 37665 | 37605 |
| 32320 | 38340 | 38335 | 38330 | 38325 | 37740 | 37735 | 37730 | 37725 | 37720 | 37715 | 37710 | 37705 | 37700 | 37695 | 37690 | 37685 | 37680 | 37675 | 37615 |
| 32325 | 38350 | 38345 | 38340 | 38335 | 37750 | 37745 | 37740 | 37735 | 37730 | 37725 | 37720 | 37715 | 37710 | 37705 | 37700 | 37695 | 37690 | 37685 | 37625 |


19

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FREQ1  26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
32700
       39100 39095 39090 39085 38500 38495 38490 38485 38480 38475 38470 38465 38460 38455 38450 38445 38440 38435 38375
32705
       39110 39105 39100 39095 38510 38505 38500 38495 38490 38485 38480 38475 38470 38465 38460 38455 38450 38445 38385
32710
       39120 39115 39110 39105 38520 38515 38510 38505 38500 38495 38490 38485 38480 38475 38470 38465 38460 38455 38395
32715
       39130 39125 39120 39115 38530 38525 38520 38515 38510 38505 38500 38495 38490 38485 38480 38475 38470 38465 38405
33550
33555
33560
33565
33820
20 33825                                                                                                              20
33830
33835
34360
34365
34370
34375
34380
34385
34390
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FREQ1 26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
34395

34625

34630

34635

34860

34865

34870

34875

21 35020

35025

35030

35035

35180

35185

35190

35195

35200

35205

36350

21

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FREQ1  26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
35355

35360

35365

35370

35375

35380

35385

35390

35395

22 35400                                                                                                                22

35405

35410

35415

36060

36065

36070

36075

36080

36085
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| FREQ1 | 26300 | 26305 | 26310 | 26315 | 26900 | 26905 | 26910 | 26915 | 26920 | 26925 | 26930 | 26935 | 26940 | 26945 | 26950 | 26955 | 26960 | 26965 | 27025 |
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| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 36230 | | | | | | | | | | | | | | | | | | | |
| 36235 | | | | | | | | | | | | | | | | | | | |
| 36300 | | | | | | | | | | | | | | | | | | | |
| 36305 | | | | | | | | | | | | | | | | | | | |
| 36310 | | | | | | | | | | | | | | | | | | | |
| 36315 | | | | | | | | | | | | | | | | | | | |
| 36320 | | | | | | | | | | | | | | | | | | | |
| 36325 | | | | | | | | | | | | | | | | | | | |
| 37085 | | | | | | | | | | | | | | | | | | | |
| 37090 | | | | | | | | | | | | | | | | | | | |
| 37095 | | | | | | | | | | | | | | | | | | | |
| 37185 | | | | | | | | | | | | | | | | | | | |
| 37190 | | | | | | | | | | | | | | | | | | | |
| 37195 | | | | | | | | | | | | | | | | | | | |
| 37705 | | | | | | | | | | | | | | | | | | | |
| 37710 | | | | | | | | | | | | | | | | | | | |
| 37715 | | | | | | | | | | | | | | | | | | | |
| 37910 | | | | | | | | | | | | | | | | | | | |
| 37915 | | | | | | | | | | | | | | | | | | | |



23

FREQ1 26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
37920

37925

37990

37995

38000

38005

38010

38015

38020

24

38025

38030

38035

38140

38145

38150

38155

38160

38165

38540

24

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FREQ1  26300 26305 26310 26315 26900 26905 26910 26915 26920 26925 26930 26935 26940 26945 26950 26955 26960 26965 27025
FREQ2
38545

38550

38555

38560

38565

38705

38710

38715

39785  12815 12825 12835 12845

39790  12810 12820 12830 12840

39795  12805 12815 12825 12835

39885  12715 12725 12735 12745

39890  12710 12720 12730 12740

39895  12705 12715 12725 12735
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FREQ1  27030 27035 27270 27275 27345 27355 27505 27515 27830 27835 27845 27955 27960 27965 28140 28145 28150 28155 28225
FREQ2
27030


27035  27025
       27040

27270  26790 26800
       27510 27505

27275  26785 26795 27265
       27520 27515 27280

27345  26715 26725 27195 27205
       27640 27655 27420 27415

27355  26705 26715 27185 27195 27335
       27680 27675 27440 27435 27365

27505  26555 26565 27035 27045 27185 27205
       27980 27975 27740 27735 27665 27655

27515  26545 26555 27025 27035 27175 27195 27495
       28000 27995 27760 27755 27685 27675 27525

27830  26230 26240 26710 26720 26860 26880 27180 27200
       28630 28625 28390 28385 28315 28305 28155 28145

27835  26225 26235 26705 26715 26855 26875 27175 27195 27825
       28640 28635 28400 28395 28325 28315 28165 28155 27840

27845  26215 26225 26695 26705 26845 26865 27165 27185 27815 27825
       28660 28655 28420 28415 28345 28335 28185 28175 27860 27855

27955  26105 26115 26585 26595 26735 26755 27055 27075 27705 27715 27735
       28880 28875 28640 28635 28565 28555 28405 28395 28080 28075 28065

27960  26100 26110 26580 26590 26730 26750 27050 27070 27700 27710 27730 27950
       28890 28885 28650 28645 28575 28565 28415 28405 28090 28085 28075 27965

27965  26095 26105 26575 26585 26725 26745 27045 27065 27695 27705 27725 27945 27955
       28900 28895 28660 28655 28585 28575 28425 28415 28100 28095 28085 27975 27970

28140  25920 25930 26400 26410 26550 26570 26870 26890 27520 27530 27550 27770 27780 27790
       29250 29245 29010 29005 28935 28925 28775 28765 28450 28445 28435 28325 28320 28315

28145  25915 25925 26395 26405 26545 26565 26865 26885 27515 27525 27545 27765 27775 27785 28135
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28150  25910 25920 26390 26400 26540 26560 26860 26880 27510 27520 27540 27760 27770 27780 28130 28140
       29270 29265 29030 29025 28955 28945 28795 28785 28470 28465 28455 28345 28340 28335 28160 28155

28155  25905 25915 26385 26395 26535 26555 26855 26875 27505 27515 27535 27755 27765 27775 28125 28135 28145
       29280 29275 29040 29035 28965 28955 28805 28795 28480 28475 28465 28355 28350 28345 28170 28165 28160

28225  25835 25845 26315 26325 26465 26485 26785 26805 27435 27445 27465 27685 27695 27705 28055 28065 28075 28085
       29420 29415 29180 29175 29105 29095 28945 28935 28620 28615 28605 28495 28490 28485 28310 28305 28300 28295
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26

| FREQ1 | 27030 | 27035 | 27270 | 27275 | 27345 | 27355 | 27505 | 27515 | 27830 | 27835 | 27845 | 27955 | 27960 | 27965 | 28140 | 28145 | 28150 | 28155 | 28225 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 28230 | 25830 | 25840 | 26310 | 26320 | 26460 | 26480 | 26780 | 26800 | 27430 | 27440 | 27460 | 27680 | 27690 | 27700 | 28050 | 28060 | 28070 | 28080 | 28220 |
| | 29430 | 29425 | 29190 | 29185 | 29115 | 29105 | 28955 | 28945 | 28630 | 28625 | 28615 | 28505 | 28500 | 28495 | 28320 | 28315 | 28310 | 28305 | 28235 |
| 28235 | 25825 | 25835 | 26305 | 26315 | 26455 | 26475 | 26775 | 26795 | 27425 | 27435 | 27455 | 27675 | 27685 | 27695 | 28045 | 28055 | 28065 | 28075 | 28215 |
| | 29440 | 29435 | 29200 | 29195 | 29125 | 29115 | 28965 | 28955 | 28640 | 28635 | 28625 | 28515 | 28510 | 28505 | 28330 | 28325 | 28320 | 28315 | 28245 |
| 28460 | 25600 | 25610 | 26080 | 26090 | 26230 | 26250 | 26550 | 26570 | 27200 | 27210 | 27230 | 27450 | 27460 | 27470 | 27820 | 27830 | 27840 | 27850 | 27990 |
| | 29890 | 29885 | 29650 | 29645 | 29575 | 29565 | 29415 | 29405 | 29090 | 29085 | 29075 | 28965 | 28960 | 28955 | 28780 | 28775 | 28770 | 28765 | 28695 |
| 28465 | 25595 | 25605 | 26075 | 26085 | 26225 | 26245 | 26545 | 26565 | 27195 | 27205 | 27225 | 27445 | 27455 | 27465 | 27815 | 27825 | 27835 | 27845 | 27985 |
| | 29900 | 29895 | 29660 | 29655 | 29585 | 29575 | 29425 | 29415 | 29100 | 29095 | 29085 | 28975 | 28970 | 28965 | 28790 | 28785 | 28780 | 28776 | 28705 |
| 28470 | 25590 | 25600 | 26070 | 26080 | 26220 | 26240 | 26540 | 26560 | 27190 | 27200 | 27220 | 27440 | 27450 | 27460 | 27810 | 27820 | 27830 | 27840 | 27980 |
| | 29910 | 29905 | 29670 | 29665 | 29595 | 29585 | 29435 | 29425 | 29110 | 29105 | 29095 | 28985 | 28980 | 28975 | 28800 | 28795 | 28790 | 28785 | 28715 |
| 28475 | 25585 | 25595 | 26065 | 26075 | 26215 | 26235 | 26535 | 26555 | 27185 | 27195 | 27215 | 27435 | 27445 | 27455 | 27805 | 27815 | 27825 | 27835 | 27975 |
| | 29920 | 29915 | 29680 | 29675 | 29605 | 29595 | 29445 | 29435 | 29120 | 29115 | 29105 | 28995 | 28990 | 28985 | 28810 | 28805 | 28800 | 28795 | 28725 |
| 28540 | 25520 | 25530 | 26000 | 26010 | 26150 | 26170 | 26470 | 26490 | 27120 | 27130 | 27150 | 27370 | 27380 | 27390 | 27740 | 27750 | 27760 | 27770 | 27910 |
| | 30050 | 30045 | 29810 | 29805 | 29735 | 29725 | 29575 | 29565 | 29250 | 29245 | 29235 | 29125 | 29120 | 29115 | 28940 | 28935 | 28930 | 28925 | 28855 |
| 28545 | 25515 | 25525 | 25995 | 26005 | 26145 | 26165 | 26465 | 26485 | 27115 | 27125 | 27145 | 27365 | 27375 | 27385 | 27735 | 27745 | 27755 | 27765 | 27905 |
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| | | | 39830 | 39825 | 39755 | 39745 | 39595 | 39585 | 39270 | 39265 | 39255 | 39145 | 39140 | 39135 | 38960 | 38955 | 38950 | 38945 | 38875 |
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| 33825 | | | | | | | | | | | | | | | | | | | 22625 |
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| 33830 | | | | | | | | | | | | | | | | | | | 22620 |
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| 33835 | | | | | | | | | | | | | | | | | | | 22615 |
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| 34360 | | | | | | | | | | | | | | | | | | | |
| 34365 | | | | | | | | | | | | | | | | | | | |
| 34370 | | | | | | | | | | | | | | | | | | | |
| 34375 | | | | | | | | | | | | | | | | | | | |
| 34380 | | | | | | | | | | | | | | | | | | | |
| 34385 | | | | | | | | | | | | | | | | | | | |
| 34390 | | | | | | | | | | | | | | | | | | | |



31

FREQ1 27030 27035 27270 27275 27345 27355 27505 27515 27830 27835 27845 27955 27960 27965 28140 28145 28150 28155 28225

FREQ2

34395

34625

34630

34635

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32 35025 32

35030

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35185

35190

35195

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35350

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FREQ1  27030 27035 27270 27275 27345 27355 27505 27515 27830 27835 27845 27955 27960 27965 28140 28145 28150 28155 28225
FREQ2
35355

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35370

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35380

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35390

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36075

36080

36085
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33

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FREQ1  27030 27035 27270 27275 27345 27355 27505 27515 27830 27835 27845 27955 27960 27965 28140 28145 28150 28155 28225
FREQ2
36230

36235

36300

36305

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36315

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37910

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34

34

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FREQ1  27030 27035 27270 27275 27345 27355 27505 27515 27830 27835 27845 27955 27960 27965 28140 28145 28150 28155 28225
FREQ2
37920

37925

37990

37995

38000

38005

38010

38015

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38030

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38145

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38165

38540
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FREQ1 27030 27035 27270 27275 27345 27355 27505 27515 27830 27835 27845 27955 27960 27965 28140 28145 28150 28155 28225

FREQ2

38545

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38565

38705

38710

38715

39785



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39795

39885

39890

39895

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FREQ2
28230

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       28240

28460  28000 28010
       28690 28685

28465  27995 28005 28455
       28700 28695 28470

28470  27990 28000 28450 28460
       28710 28705 28480 28475

28475  27985 27995 28445 28455 28465
       28720 28715 28490 28485 28480

28540  27920 27930 28380 28390 28400 28410
       28850 28845 28620 28615 28610 28605

28545  27915 27925 28375 28385 28395 28405 28535
       28860 28855 28630 28625 28620 28615 28550

28550  27910 27920 28370 28380 28390 28400 28530 28540
       28870 28865 28640 28635 28630 28625 28560 28555

28555  27905 27915 28365 28375 28385 28395 28525 28535 28545
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28560  27900 27910 28360 28370 28380 28390 28520 28530 28540 28550
       28890 28885 28660 28655 28650 28645 28580 28575 28570 28565

28565  27895 27905 28355 28365 28375 28385 28515 28525 28535 28545 28555
       28900 28895 28670 28665 28660 28655 28590 28585 28580 28575 28570

28785  27675 27685 28135 28145 28155 28165 28295 28305 28315 28325 28335 28345
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29035  27425 27435 27885 27895 27905 27915 28045 28055 28065 28075 28085 28095 28535 28545 28555 29005 29015 29025
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37

| | | | | | | | | | | | | | | | | | | |
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| 29045 | 27415 | 27425 | 27875 | 27885 | 27895 | 27905 | 28035 | 28045 | 28055 | 28065 | 28075 | 28085 | 28525 | 28535 | 28545 | 28995 | 29005 | 29015 | 29025 |
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| 30780 | 25680 | 25690 | 26140 | 26150 | 26160 | 26170 | 26300 | 26310 | 26320 | 26330 | 26340 | 26350 | 26790 | 26800 | 26810 | 27260 | 27270 | 27280 | 27290 |
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| | 35620 | 35615 | 35390 | 35385 | 35380 | 35375 | 35310 | 35305 | 35300 | 35295 | 35290 | 35285 | 35065 | 35060 | 35055 | 34830 | 34825 | 34820 | 34815 |
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| | 35730 | 35725 | 35500 | 35495 | 35490 | 35485 | 35420 | 35415 | 35410 | 35405 | 35400 | 35395 | 35175 | 35170 | 35165 | 34940 | 34935 | 34930 | 34925 |
| 31985 | 24475 | 24485 | 24935 | 24945 | 24955 | 24965 | 25095 | 25105 | 25115 | 25125 | 25135 | 25145 | 25585 | 25595 | 25605 | 26055 | 26065 | 26075 | 26085 |
| | 35740 | 35735 | 35510 | 35505 | 35500 | 35495 | 35430 | 35425 | 35420 | 35415 | 35410 | 35405 | 35185 | 35180 | 35175 | 34950 | 34945 | 34940 | 34935 |
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| | 35760 | 35755 | 35530 | 35525 | 35520 | 35515 | 35450 | 35445 | 35440 | 35435 | 35430 | 35425 | 35205 | 35200 | 35195 | 34970 | 34965 | 34960 | 34955 |
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| | 36230 | 36225 | 36000 | 35995 | 35990 | 35985 | 35920 | 35915 | 35910 | 35905 | 35900 | 35895 | 35675 | 35670 | 35665 | 35440 | 35435 | 35430 | 35425 |
| 32235 | 24225 | 24235 | 24685 | 24695 | 24705 | 24715 | 24845 | 24855 | 24865 | 24875 | 24885 | 24895 | 25335 | 25345 | 25355 | 25805 | 25815 | 25825 | 25835 |
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| 32255 | 24205 | 24215 | 24665 | 24675 | 24685 | 24695 | 24825 | 24835 | 24845 | 24855 | 24865 | 24875 | 25315 | 25325 | 25335 | 25785 | 25795 | 25805 | 25815 |
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| | 36380 | 36375 | 36150 | 36145 | 36140 | 36135 | 36070 | 36065 | 36060 | 36055 | 36050 | 36045 | 35825 | 35820 | 35815 | 35590 | 35585 | 35580 | 35575 |
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| | 36400 | 36395 | 36170 | 36165 | 36160 | 36155 | 36090 | 36085 | 36080 | 36075 | 36070 | 36065 | 35845 | 35840 | 35835 | 35610 | 35605 | 35600 | 35595 |
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| | 36410 | 36405 | 36180 | 36175 | 36170 | 36165 | 36100 | 36095 | 36090 | 36085 | 36080 | 36075 | 35855 | 35850 | 35845 | 35620 | 35615 | 35610 | 35605 |
| 32325 | 24135 | 24145 | 24595 | 24605 | 24615 | 24625 | 24755 | 24765 | 24775 | 24785 | 24795 | 24805 | 25245 | 25255 | 25265 | 25715 | 25725 | 25735 | 25745 |
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| FREQ1 | 28230 | 28235 | 28460 | 28465 | 28470 | 28475 | 28540 | 28545 | 28550 | 28555 | 28560 | 28565 | 28785 | 28790 | 28795 | 29020 | 29025 | 29030 | 29035 |
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| | 37170 | 37165 | 36940 | 36935 | 36930 | 36925 | 36860 | 36855 | 36850 | 36845 | 36840 | 36835 | 36615 | 36610 | 36605 | 36380 | 36375 | 36370 | 36365 |
| 32705 | 23755 | 23765 | 24215 | 24225 | 24235 | 24245 | 24375 | 24385 | 24395 | 24405 | 24415 | 24425 | 24865 | 24875 | 24885 | 25335 | 25345 | 25355 | 25365 |
| | 37180 | 37175 | 36950 | 36945 | 36940 | 36935 | 36870 | 36865 | 36860 | 36855 | 36850 | 36845 | 36625 | 36620 | 36615 | 36390 | 36385 | 36380 | 36375 |
| 32710 | 23750 | 23760 | 24210 | 24220 | 24230 | 24240 | 24370 | 24380 | 24390 | 24400 | 24410 | 24420 | 24860 | 24870 | 24880 | 25330 | 25340 | 25350 | 25360 |
| | 37190 | 37185 | 36960 | 36955 | 36950 | 36945 | 36880 | 36875 | 36870 | 36865 | 36860 | 36855 | 36635 | 36630 | 36625 | 36400 | 36395 | 36390 | 36385 |
| 32715 | 23745 | 23755 | 24205 | 24215 | 24225 | 24235 | 24365 | 24375 | 24385 | 24395 | 24405 | 24415 | 24855 | 24865 | 24875 | 25325 | 25335 | 25345 | 25355 |
| | 37200 | 37195 | 36970 | 36965 | 36960 | 36955 | 36890 | 36885 | 36880 | 36875 | 36870 | 36865 | 36645 | 36640 | 36635 | 36410 | 36405 | 36400 | 36395 |
| 32550 | 22910 | 22920 | 23370 | 23380 | 23390 | 23400 | 23530 | 23540 | 23550 | 23560 | 23570 | 23580 | 24020 | 24030 | 24040 | 24490 | 24500 | 24510 | 24520 |
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| | 38880 | 38875 | 38650 | 38645 | 38640 | 38635 | 38570 | 38565 | 38560 | 38555 | 38550 | 38545 | 38325 | 38320 | 38315 | 38090 | 38085 | 38080 | 38075 |
| 32560 | 22900 | 22910 | 23360 | 23370 | 23380 | 23390 | 23520 | 23530 | 23540 | 23550 | 23560 | 23570 | 24010 | 24020 | 24030 | 24480 | 24490 | 24500 | 24510 |
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| | 39410 | 39405 | 39180 | 39175 | 39170 | 39165 | 39100 | 39095 | 39090 | 39085 | 39080 | 39075 | 38855 | 38850 | 38845 | 38620 | 38615 | 38610 | 38605 |
| 32825 | 22635 | 22645 | 23095 | 23105 | 23115 | 23125 | 23255 | 23265 | 23275 | 23285 | 23295 | 23305 | 23745 | 23755 | 23765 | 24215 | 24225 | 24235 | 24245 |
| | 39420 | 39415 | 39190 | 39185 | 39180 | 39175 | 39110 | 39105 | 39100 | 39095 | 39090 | 39085 | 38865 | 38860 | 38855 | 38630 | 38625 | 38620 | 38615 |
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| | 39430 | 39425 | 39200 | 39195 | 39190 | 39185 | 39120 | 39115 | 39110 | 39105 | 39100 | 39095 | 38875 | 38870 | 38865 | 38640 | 38635 | 38630 | 38625 |
| 32835 | 22625 | 22635 | 23085 | 23095 | 23105 | 23115 | 23245 | 23255 | 23265 | 23275 | 23285 | 23295 | 23735 | 23745 | 23755 | 24205 | 24215 | 24225 | 24235 |
| | 39440 | 39435 | 39210 | 39205 | 39200 | 39195 | 39130 | 39125 | 39120 | 39115 | 39110 | 39105 | 38885 | 38880 | 38875 | 38650 | 38645 | 38640 | 38635 |
| 34360 | | | 22560 | 22570 | 22580 | 22590 | 22720 | 22730 | 22740 | 22750 | 22760 | 22770 | 23210 | 23220 | 23230 | 23680 | 23690 | 23700 | 23710 |
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| | | | | | | | | | | | | | 39965 | 39960 | 39955 | 39730 | 39725 | 39720 | 39715 |
| 34380 | | | 22540 | 22550 | 22560 | 22570 | 22700 | 22710 | 22720 | 22730 | 22740 | 22750 | 23190 | 23200 | 23210 | 23660 | 23670 | 23680 | 23690 |
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| 34385 | | | 22535 | 22545 | 22555 | 22565 | 22695 | 22705 | 22715 | 22725 | 22735 | 22745 | 23185 | 23195 | 23205 | 23655 | 23665 | 23675 | 23685 |
| | | | | | | | | | | | | | 39985 | 39980 | 39975 | 39750 | 39745 | 39740 | 39735 |
| 34390 | | | 22530 | 22540 | 22550 | 22560 | 22690 | 22700 | 22710 | 22720 | 22730 | 22740 | 23180 | 23190 | 23200 | 23650 | 23660 | 23670 | 23680 |
| | | | | | | | | | | | | | 39995 | 39990 | 39985 | 39760 | 39755 | 39750 | 39745 |

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| FREQ1 | 28230 | 28215 | 28460 | 28465 | 28470 | 28475 | 28540 | 28545 | 28550 | 28555 | 28560 | 28565 | 28785 | 28790 | 28795 | 29020 | 29025 | 29030 | 29035 |
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| 34625 | | | | | | | | | | | | 22505 | 22945 | 22955 | 22965 | 23415 | 23425 | 23435 | 23445 |
| 34630 | | | | | | | | | | | | 22500 | 22940 | 22950 | 22960 | 23410 | 23420 | 23430 | 23440 |
| 34635 | | | | | | | | | | | | | 22935 | 22945 | 22955 | 23405 | 23415 | 23425 | 23435 |
| 34860 | | | | | | | | | | | | | 22710 | 22720 | 22730 | 23180 | 23190 | 23200 | 23210 |
| 34865 | | | | | | | | | | | | | 22705 | 22715 | 22725 | 23175 | 23185 | 23195 | 23205 |
| 34870 | | | | | | | | | | | | | 22700 | 22710 | 22720 | 23170 | 23180 | 23190 | 23200 |
| 34875 | | | | | | | | | | | | | 22695 | 22705 | 22715 | 23165 | 23175 | 23185 | 23195 |
| 35020 | | | | | | | | | | | | | 22550 | 22560 | 22570 | 23020 | 23030 | 23040 | 23050 |
| 35025 | | | | | | | | | | | | | 22545 | 22555 | 22565 | 23015 | 23025 | 23035 | 23045 |
| 35030 | | | | | | | | | | | | | 22540 | 22550 | 22560 | 23010 | 23020 | 23030 | 23040 |
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| 35180 | | | | | | | | | | | | | | | | 22860 | 22870 | 22880 | 22890 |
| 35185 | | | | | | | | | | | | | | | | 22855 | 22865 | 22875 | 22885 |
| 35190 | | | | | | | | | | | | | | | | 22850 | 22860 | 22870 | 22880 |
| 35195 | | | | | | | | | | | | | | | | 22845 | 22855 | 22865 | 22875 |
| 35200 | | | | | | | | | | | | | | | | 22840 | 22850 | 22860 | 22870 |
| 35205 | | | | | | | | | | | | | | | | 22835 | 22845 | 22855 | 22865 |
| 35350 | | | | | | | | | | | | | | | | 22690 | 22700 | 22710 | 22720 |


42

| FREQ1 | 28230 | 28235 | 28460 | 28465 | 28470 | 28475 | 28540 | 28545 | 28550 | 28555 | 28560 | 28565 | 28785 | 28790 | 28795 | 29020 | 29025 | 29030 | 29035 |
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| FREQ2 | | | | | | | | | | | | | | | | | | | |
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| 35360 | | | | | | | | | | | | | | | | 22680 | 22690 | 22700 | 22710 |
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| 35370 | | | | | | | | | | | | | | | | 22670 | 22680 | 22690 | 22700 |
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| 35380 | | | | | | | | | | | | | | | | 22660 | 22670 | 22680 | 22690 |
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| 35390 | | | | | | | | | | | | | | | | 22650 | 22660 | 22670 | 22680 |
| 35395 | | | | | | | | | | | | | | | | 22645 | 22655 | 22665 | 22675 |
| 35400 | | | | | | | | | | | | | | | | 22640 | 22650 | 22660 | 22670 |
| 35405 | | | | | | | | | | | | | | | | 22635 | 22645 | 22655 | 22665 |
| 35410 | | | | | | | | | | | | | | | | 22630 | 22640 | 22650 | 22660 |
| 35415 | | | | | | | | | | | | | | | | 22625 | 22635 | 22645 | 22655 |
| 36060 | | | | | | | | | | | | | | | | | | | |
| 36065 | | | | | | | | | | | | | | | | | | | |
| 36070 | | | | | | | | | | | | | | | | | | | |
| 36075 | | | | | | | | | | | | | | | | | | | |
| 36080 | | | | | | | | | | | | | | | | | | | |
| 36085 | | | | | | | | | | | | | | | | | | | |


43

| FREQ1 | 28230 | 28235 | 28460 | 28465 | 28470 | 28475 | 28540 | 28545 | 28550 | 28555 | 28560 | 28565 | 28785 | 28790 | 28795 | 29020 | 29025 | 29030 | 29035 |
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| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 36230 | | | | | | | | | | | | | | | | | | | |
| 36235 | | | | | | | | | | | | | | | | | | | |
| 36300 | | | | | | | | | | | | | | | | | | | |
| 36305 | | | | | | | | | | | | | | | | | | | |
| 36310 | | | | | | | | | | | | | | | | | | | |
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| 36320 | | | | | | | | | | | | | | | | | | | |
| 36325 | | | | | | | | | | | | | | | | | | | |
| 37085 | | | | | | | | | | | | | | | | | | | |
| 37090 | | | | | | | | | | | | | | | | | | | |
| 37095 | | | | | | | | | | | | | | | | | | | |
| 37185 | | | | | | | | | | | | | | | | | | | |
| 37190 | | | | | | | | | | | | | | | | | | | |
| 37195 | | | | | | | | | | | | | | | | | | | |
| 37705 | | | | | | | | | | | | | | | | | | | |
| 37710 | | | | | | | | | | | | | | | | | | | |
| 37715 | | | | | | | | | | | | | | | | | | | |
| 37910 | | | | | | | | | | | | | | | | | | | |
| 37915 | | | | | | | | | | | | | | | | | | | |



44

FREQ1 28230 28235 28460 28465 28470 28475 28540 28545 28550 28555 28560 28565 28785 28790 28795 29020 29025 29030 29035
FREQ2
37920

37925

37990

37995

38000

38005

38010

38015

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38145

38150

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38540

FREQ1 28230 28215 28460 28465 28470 28475 28540 28545 28550 28555 28560 28565 28785 28790 28795 29020 29025 29030 29035
FREQ2
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38555

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39785



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39895

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FREQ2
29040


29045  29035
       29050

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       29060 29055

29055  29025 29035 29045
       29070 29065 29060

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       29280 29275 29270 29265

29165  28915 28925 28935 28945 29155
       29290 29285 29280 29275 29170

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       29300 29295 29290 29285 29180 29175

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       29310 29305 29300 29295 29190 29185 29180

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30625  27455 27465 27475 27485 27695 27705 27715 27725 30415
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30630  27450 27460 27470 27480 27690 27700 27710 27720 30610 30620
       32220 32215 32210 32205 32100 32095 32090 32085 30640 30635

30635  27445 27455 27465 27475 27685 27695 27705 27715 30605 30615 30625
       32230 32225 32220 32215 32110 32105 32100 32095 30650 30645 30640

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| 34625 | 23455 | 23465 | 23475 | 23485 | 23695 | 23705 | 23715 | 23725 | 26615 | 26625 | 26635 | 26645 | 26755 | 26765 | 26775 | 26785 | 26795 | 26805 | 26815 |
| | | | | | | | | | 38630 | 38625 | 38620 | 38615 | 38560 | 38555 | 38550 | 38545 | 38540 | 38535 | 38530 |
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| 34635 | 23445 | 23455 | 23465 | 23475 | 23685 | 23695 | 23705 | 23715 | 26605 | 26615 | 26625 | 26635 | 26745 | 26755 | 26765 | 26775 | 26785 | 26795 | 26805 |
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| | | | | | | | | | 39110 | 39105 | 39100 | 39095 | 39040 | 39035 | 39030 | 39025 | 39020 | 39015 | 39010 |
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| | | | | | | | | | 39120 | 39115 | 39110 | 39105 | 39050 | 39045 | 39040 | 39035 | 39030 | 39025 | 39020 |
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| 35020 | 23060 | 23070 | 23080 | 23090 | 23300 | 23310 | 23320 | 23330 | 26220 | 26230 | 26240 | 26250 | 26360 | 26370 | 26380 | 26390 | 26400 | 26410 | 26420 |
| | | | | | | | | | 39420 | 39415 | 39410 | 39405 | 39350 | 39345 | 39340 | 39335 | 39330 | 39325 | 39320 |
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| | | | | | | | | | 39740 | 39735 | 39730 | 39725 | 39670 | 39665 | 39660 | 39655 | 39650 | 39645 | 39640 |
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| | | | | | | | | | 39750 | 39745 | 39740 | 39735 | 39680 | 39675 | 39670 | 39665 | 39660 | 39655 | 39650 |
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| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 35400 | 22680 | 22690 | 22700 | 22710 | 22920 | 22930 | 22940 | 22950 | 25840 | 25850 | 25860 | 25870 | 25980 | 25990 | 26000 | 26010 | 26020 | 26030 | 26040 | 52 |
| 52 | | | | | | | | | | | | | | | | | | | | |
| 35405 | 22675 | 22685 | 22695 | 22705 | 22915 | 22925 | 22935 | 22945 | 25835 | 25845 | 25855 | 25865 | 25975 | 25985 | 25995 | 26005 | 26015 | 26025 | 26035 | |
| 35410 | 22670 | 22680 | 22690 | 22700 | 22910 | 22920 | 22930 | 22940 | 25830 | 25840 | 25850 | 25860 | 25970 | 25980 | 25990 | 26000 | 26010 | 26020 | 26030 | |
| 35415 | 22665 | 22675 | 22685 | 22695 | 22905 | 22915 | 22925 | 22935 | 25825 | 25835 | 25845 | 25855 | 25965 | 25975 | 25985 | 25995 | 26005 | 26015 | 26025 | |
| 36040 | | | | | | | | | 25180 | 25190 | 25200 | 25210 | 25320 | 25330 | 25340 | 25350 | 25360 | 25370 | 25380 | |
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| 36070 | | | | | | | | | 25170 | 25180 | 25190 | 25200 | 25310 | 25320 | 25330 | 25340 | 25350 | 25360 | 25370 | |
| 36075 | | | | | | | | | 25165 | 25175 | 25185 | 25195 | 25305 | 25315 | 25325 | 25335 | 25345 | 25355 | 25365 | |
| 36080 | | | | | | | | | 25160 | 25170 | 25180 | 25190 | 25300 | 25310 | 25320 | 25330 | 25340 | 25350 | 25360 | |
| 36085 | | | | | | | | | 25155 | 25165 | 25175 | 25185 | 25295 | 25305 | 25315 | 25325 | 25335 | 25345 | 25355 | |

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| 36320 | | | | | | | | | 24920 | 24930 | 24940 | 24950 | 25060 | 25070 | 25080 | 25090 | 25100 | 25110 | 25120 |
| 36325 | | | | | | | | | 24915 | 24925 | 24935 | 24945 | 25055 | 25065 | 25075 | 25085 | 25095 | 25105 | 25115 |
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| 37090 | | | | | | | | | 24150 | 24160 | 24170 | 24180 | 24290 | 24300 | 24310 | 24320 | 24330 | 24340 | 24350 |
| 37095 | | | | | | | | | 24145 | 24155 | 24165 | 24175 | 24285 | 24295 | 24305 | 24315 | 24325 | 24335 | 24345 |
| 37185 | | | | | | | | | 24055 | 24065 | 24075 | 24085 | 24195 | 24205 | 24215 | 24225 | 24235 | 24245 | 24255 |
| 37190 | | | | | | | | | 24050 | 24060 | 24070 | 24080 | 24190 | 24200 | 24210 | 24220 | 24230 | 24240 | 24250 |
| 37195 | | | | | | | | | 24045 | 24055 | 24065 | 24075 | 24185 | 24195 | 24205 | 24215 | 24225 | 24235 | 24245 |
| 37705 | | | | | | | | | 23535 | 23545 | 23555 | 23565 | 23675 | 23685 | 23695 | 23705 | 23715 | 23725 | 23735 |
| 37710 | | | | | | | | | 23530 | 23540 | 23550 | 23560 | 23670 | 23680 | 23690 | 23700 | 23710 | 23720 | 23730 |
| 37715 | | | | | | | | | 23525 | 23535 | 23545 | 23555 | 23665 | 23675 | 23685 | 23695 | 23705 | 23715 | 23725 |
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| 37915 | | | | | | | | | 23325 | 23335 | 23345 | 23355 | 23465 | 23475 | 23485 | 23495 | 23505 | 23515 | 23525 |


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| FREQ1 | 29040 | 29045 | 29050 | 29055 | 29160 | 29165 | 29170 | 29175 | 30620 | 30625 | 30630 | 30635 | 30690 | 30695 | 30700 | 30705 | 30710 | 30715 | 30720 |
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| FREQ2 | | | | | | | | | | | | | | | | | | | |
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| 37925 | | | | | | | | | 23315 | 23325 | 23335 | 23345 | 23455 | 23465 | 23475 | 23485 | 23495 | 23505 | 23515 |
| 37990 | | | | | | | | | 23250 | 23260 | 23270 | 23280 | 23390 | 23400 | 23410 | 23420 | 23430 | 23440 | 23450 |
| 37995 | | | | | | | | | 23245 | 23255 | 23265 | 23275 | 23385 | 23395 | 23405 | 23415 | 23425 | 23435 | 23445 |
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| 38015 | | | | | | | | | 23225 | 23235 | 23245 | 23255 | 23365 | 23375 | 23385 | 23395 | 23405 | 23415 | 23425 |
| 38020 | | | | | | | | | 23220 | 23230 | 23240 | 23250 | 23360 | 23370 | 23380 | 23390 | 23400 | 23410 | 23420 |
| 38025 | | | | | | | | | 23215 | 23225 | 23235 | 23245 | 23355 | 23365 | 23375 | 23385 | 23395 | 23405 | 23415 |
| 38030 | | | | | | | | | 23210 | 23220 | 23230 | 23240 | 23350 | 23360 | 23370 | 23380 | 23390 | 23400 | 23410 |
| 38035 | | | | | | | | | 23205 | 23215 | 23225 | 23235 | 23345 | 23355 | 23365 | 23375 | 23385 | 23395 | 23405 |
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| 38150 | | | | | | | | | 23090 | 23100 | 23110 | 23120 | 23230 | 23240 | 23250 | 23260 | 23270 | 23280 | 23290 |
| 38155 | | | | | | | | | 23085 | 23095 | 23105 | 23115 | 23225 | 23235 | 23245 | 23255 | 23265 | 23275 | 23285 |
| 38160 | | | | | | | | | 23080 | 23090 | 23100 | 23110 | 23220 | 23230 | 23240 | 23250 | 23260 | 23270 | 23280 |
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| FREQ1 | 29040 | 29045 | 29050 | 29055 | 29160 | 29165 | 29170 | 29175 | 30620 | 30625 | 30630 | 30635 | 30690 | 30695 | 30700 | 30705 | 30710 | 30715 | 30720 |
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| 38555 | | | | | | | | | 22685 | 22695 | 22705 | 22715 | 22825 | 22835 | 22845 | 22855 | 22865 | 22875 | 22885 |
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| 38710 | | | | | | | | | 22530 | 22540 | 22550 | 22560 | 22670 | 22680 | 22690 | 22700 | 22710 | 22720 | 22730 |
| 38715 | | | | | | | | | 22525 | 22535 | 22545 | 22555 | 22665 | 22675 | 22685 | 22695 | 22705 | 22715 | 22725 |
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| 39790 | | | | | | | | | | | | | | | | | | | |
| 39795 | | | | | | | | | | | | | | | | | | | |
| 39885 | | | | | | | | | | | | | | | | | | | |
| 39890 | | | | | | | | | | | | | | | | | | | |
| 39895 | | | | | | | | | | | | | | | | | | | |


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FREQ1  30725 30730 30735 30780 30785 30790 30795 31605 31610 31615 31740 31745 31750 31755 31760 31765 31770 31775 31910
FREQ2
30725


30730  30720
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       30745 30740

30780  30670 30680 30690
       30835 30830 30825

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       30845 30840 30835 30790

30790  30660 30670 30680 30770 30780
       30855 30850 30845 30800 30795

30795  30655 30665 30675 30765 30775 30785
       30865 30860 30855 30810 30805 30800

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56 31615  29835 29845 29855 29945 29955 29965 29975 31595 31605
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| | 37815 | 37810 | 37805 | 37750 | 37745 | 37740 | 37735 | 37500 | 37495 | 37490 | 37485 | 37480 | 37475 | 37430 | 37425 | 37420 | 37415 | 37410 | 37405 |
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| 34875 | 28955 | 28965 | 28975 | 29085 | 29095 | 29105 | 29115 | 29585 | 29595 | 29605 | 29615 | 29625 | 29635 | 29725 | 29735 | 29745 | 29755 | 29765 | 29775 |
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| | 38125 | 38120 | 38115 | 38060 | 38055 | 38050 | 38045 | 37810 | 37805 | 37800 | 37795 | 37790 | 37785 | 37740 | 37735 | 37730 | 37725 | 37720 | 37715 |
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| | 38155 | 38150 | 38145 | 38090 | 38085 | 38080 | 38075 | 37840 | 37835 | 37830 | 37825 | 37820 | 37815 | 37770 | 37765 | 37760 | 37755 | 37750 | 37745 |
| 35180 | 28650 | 28660 | 28670 | 28780 | 28790 | 28800 | 28810 | 29280 | 29290 | 29300 | 29310 | 29320 | 29330 | 29420 | 29430 | 29440 | 29450 | 29460 | 29470 |
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| | 38455 | 38450 | 38445 | 38390 | 38385 | 38380 | 38375 | 38140 | 38135 | 38130 | 38125 | 38120 | 38115 | 38070 | 38065 | 38060 | 38055 | 38050 | 38045 |
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| | 38465 | 38460 | 38455 | 38400 | 38395 | 38390 | 38385 | 38150 | 38145 | 38140 | 38135 | 38130 | 38125 | 38080 | 38075 | 38070 | 38065 | 38060 | 38055 |
| 35195 | 28635 | 28645 | 28655 | 28765 | 28775 | 28785 | 28795 | 29265 | 29275 | 29285 | 29295 | 29305 | 29315 | 29405 | 29415 | 29425 | 29435 | 29445 | 29455 |
| | 38475 | 38470 | 38465 | 38410 | 38405 | 38400 | 38395 | 38160 | 38155 | 38150 | 38145 | 38140 | 38135 | 38090 | 38085 | 38080 | 38075 | 38070 | 38065 |
| 35200 | 28630 | 28640 | 28650 | 28760 | 28770 | 28780 | 28790 | 29260 | 29270 | 29280 | 29290 | 29300 | 29310 | 29400 | 29410 | 29420 | 29430 | 29440 | 29450 |
| | 38485 | 38480 | 38475 | 38420 | 38415 | 38410 | 38405 | 38170 | 38165 | 38160 | 38155 | 38150 | 38145 | 38100 | 38095 | 38090 | 38085 | 38080 | 38075 |
| 35205 | 28625 | 28635 | 28645 | 28755 | 28765 | 28775 | 28785 | 29255 | 29265 | 29275 | 29285 | 29295 | 29305 | 29395 | 29405 | 29415 | 29425 | 29435 | 29445 |
| | 38495 | 38490 | 38485 | 38430 | 38425 | 38420 | 38415 | 38180 | 38175 | 38170 | 38165 | 38160 | 38155 | 38110 | 38105 | 38100 | 38095 | 38090 | 38085 |
| 35350 | 28480 | 28490 | 28500 | 28610 | 28620 | 28630 | 28640 | 29110 | 29120 | 29130 | 29140 | 29150 | 29160 | 29250 | 29260 | 29270 | 29280 | 29290 | 29300 |
| | 38785 | 38780 | 38775 | 38720 | 38715 | 38710 | 38705 | 38470 | 38465 | 38460 | 38455 | 38450 | 38445 | 38400 | 38395 | 38390 | 38385 | 38380 | 38375 |


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| FREQ1 | 31915 | 31920 | 31925 | 31980 | 31985 | 31990 | 31995 | 32230 | 32235 | 32240 | 32245 | 32250 | 32255 | 32300 | 32305 | 32310 | 32315 | 32320 | 32325 |
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| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 35355 | 28475 | 28485 | 28495 | 28605 | 28615 | 28625 | 28635 | 29105 | 29115 | 29125 | 29135 | 29145 | 29155 | 29245 | 29255 | 29265 | 29275 | 29285 | 29295 |
| | 38795 | 38790 | 38785 | 38730 | 38725 | 38720 | 38715 | 38480 | 38475 | 38470 | 38465 | 38460 | 38455 | 38410 | 38405 | 38400 | 38395 | 38390 | 38385 |
| 35360 | 28470 | 28480 | 28490 | 28600 | 28610 | 28620 | 28630 | 29100 | 29110 | 29120 | 29130 | 29140 | 29150 | 29240 | 29250 | 29260 | 29270 | 29280 | 29290 |
| | 38805 | 38800 | 38795 | 38740 | 38735 | 38730 | 38725 | 38490 | 38485 | 38480 | 38475 | 38470 | 38465 | 38420 | 38415 | 38410 | 38405 | 38400 | 38395 |
| 35365 | 28465 | 28475 | 28485 | 28595 | 28605 | 28615 | 28625 | 29095 | 29105 | 29115 | 29125 | 29135 | 29145 | 29235 | 29245 | 29255 | 29265 | 29275 | 29285 |
| | 38815 | 38810 | 38805 | 38750 | 38745 | 38740 | 38735 | 38500 | 38495 | 38490 | 38485 | 38480 | 38475 | 38430 | 38425 | 38420 | 38415 | 38410 | 38405 |
| 35370 | 28460 | 28470 | 28480 | 28590 | 28600 | 28610 | 28620 | 29090 | 29100 | 29110 | 29120 | 29130 | 29140 | 29230 | 29240 | 29250 | 29260 | 29270 | 29280 |
| | 38825 | 38820 | 38815 | 38760 | 38755 | 38750 | 38745 | 38510 | 38505 | 38500 | 38495 | 38490 | 38485 | 38440 | 38435 | 38430 | 38425 | 38420 | 38415 |
| 35375 | 28455 | 28465 | 28475 | 28585 | 28595 | 28605 | 28615 | 29085 | 29095 | 29105 | 29115 | 29125 | 29135 | 29225 | 29235 | 29245 | 29255 | 29265 | 29275 |
| | 38835 | 38830 | 38825 | 38770 | 38765 | 38760 | 38755 | 38520 | 38515 | 38510 | 38505 | 38500 | 38495 | 38450 | 38445 | 38440 | 38435 | 38430 | 38425 |
| 35380 | 28450 | 28460 | 28470 | 28580 | 28590 | 28600 | 28610 | 29080 | 29090 | 29100 | 29110 | 29120 | 29130 | 29220 | 29230 | 29240 | 29250 | 29260 | 29270 |
| | 38845 | 38840 | 38835 | 38780 | 38775 | 38770 | 38765 | 38530 | 38525 | 38520 | 38515 | 38510 | 38505 | 38460 | 38455 | 38450 | 38445 | 38440 | 38435 |
| 35385 | 28445 | 28455 | 28465 | 28575 | 28585 | 28595 | 28605 | 29075 | 29085 | 29095 | 29105 | 29115 | 29125 | 29215 | 29225 | 29235 | 29245 | 29255 | 29265 |
| | 38855 | 38850 | 38845 | 38790 | 38785 | 38780 | 38775 | 38540 | 38535 | 38530 | 38525 | 38520 | 38515 | 38470 | 38465 | 38460 | 38455 | 38450 | 38445 |
| 35390 | 28440 | 28450 | 28460 | 28570 | 28580 | 28590 | 28600 | 29070 | 29080 | 29090 | 29100 | 29110 | 29120 | 29210 | 29220 | 29230 | 29240 | 29250 | 29260 |
| | 38865 | 38860 | 38855 | 38800 | 38795 | 38790 | 38785 | 38550 | 38545 | 38540 | 38535 | 38530 | 38525 | 38480 | 38475 | 38470 | 38465 | 38460 | 38455 |
| 35395 | 28435 | 28445 | 28455 | 28565 | 28575 | 28585 | 28595 | 29065 | 29075 | 29085 | 29095 | 29105 | 29115 | 29205 | 29215 | 29225 | 29235 | 29245 | 29255 |
| | 38875 | 38870 | 38865 | 38810 | 38805 | 38800 | 38795 | 38560 | 38555 | 38550 | 38545 | 38540 | 38535 | 38490 | 38485 | 38480 | 38475 | 38470 | 38465 |
| 35400 | 28430 | 28440 | 28450 | 28560 | 28570 | 28580 | 28590 | 29060 | 29070 | 29080 | 29090 | 29100 | 29110 | 29200 | 29210 | 29220 | 29230 | 29240 | 29250 |
| | 38885 | 38880 | 38875 | 38820 | 38815 | 38810 | 38805 | 38570 | 38565 | 38560 | 38555 | 38550 | 38545 | 38500 | 38495 | 38490 | 38485 | 38480 | 38475 |
| 35405 | 28425 | 28435 | 28445 | 28555 | 28565 | 28575 | 28585 | 29055 | 29065 | 29075 | 29085 | 29095 | 29105 | 29195 | 29205 | 29215 | 29225 | 29235 | 29245 |
| | 38895 | 38890 | 38885 | 38830 | 38825 | 38820 | 38815 | 38580 | 38575 | 38570 | 38565 | 38560 | 38555 | 38510 | 38505 | 38500 | 38495 | 38490 | 38485 |
| 35410 | 28420 | 28430 | 28440 | 28550 | 28560 | 28570 | 28580 | 29050 | 29060 | 29070 | 29080 | 29090 | 29100 | 29190 | 29200 | 29210 | 29220 | 29230 | 29240 |
| | 38905 | 38900 | 38895 | 38840 | 38835 | 38830 | 38825 | 38590 | 38585 | 38580 | 38575 | 38570 | 38565 | 38520 | 38515 | 38510 | 38505 | 38500 | 38495 |
| 35415 | 28415 | 28425 | 28435 | 28545 | 28555 | 28565 | 28575 | 29045 | 29055 | 29065 | 29075 | 29085 | 29095 | 29185 | 29195 | 29205 | 29215 | 29225 | 29235 |
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| 36060 | 27770 | 27780 | 27790 | 27900 | 27910 | 27920 | 27930 | 28400 | 28410 | 28420 | 28430 | 28440 | 28450 | 28540 | 28550 | 28560 | 28570 | 28580 | 28590 |
| | | | | | | | | 39890 | 39885 | 39880 | 39875 | 39870 | 39865 | 39820 | 39815 | 39810 | 39805 | 39800 | 39795 |
| 36065 | 27765 | 27775 | 27785 | 27895 | 27905 | 27915 | 27925 | 28395 | 28405 | 28415 | 28425 | 28435 | 28445 | 28535 | 28545 | 28555 | 28565 | 28575 | 28585 |
| | | | | | | | | 39900 | 39895 | 39890 | 39885 | 39880 | 39875 | 39830 | 39825 | 39820 | 39815 | 39810 | 39805 |
| 36070 | 27760 | 27770 | 27780 | 27890 | 27900 | 27910 | 27920 | 28390 | 28400 | 28410 | 28420 | 28430 | 28440 | 28530 | 28540 | 28550 | 28560 | 28570 | 28580 |
| | | | | | | | | 39910 | 39905 | 39900 | 39895 | 39890 | 39885 | 39840 | 39835 | 39830 | 39825 | 39820 | 39815 |
| 36075 | 27755 | 27765 | 27775 | 27885 | 27895 | 27905 | 27915 | 28385 | 28395 | 28405 | 28415 | 28425 | 28435 | 28525 | 28535 | 28545 | 28555 | 28565 | 28575 |
| | | | | | | | | 39920 | 39915 | 39910 | 39905 | 39900 | 39895 | 39850 | 39845 | 39840 | 39835 | 39830 | 39825 |
| 36080 | 27750 | 27760 | 27770 | 27880 | 27890 | 27900 | 27910 | 28380 | 28390 | 28400 | 28410 | 28420 | 28430 | 28520 | 28530 | 28540 | 28550 | 28560 | 28570 |
| | | | | | | | | 39930 | 39925 | 39920 | 39915 | 39910 | 39905 | 39860 | 39855 | 39850 | 39845 | 39840 | 39835 |
| 36085 | 27745 | 27755 | 27765 | 27875 | 27885 | 27895 | 27905 | 28375 | 28385 | 28395 | 28405 | 28415 | 28425 | 28515 | 28525 | 28535 | 28545 | 28555 | 28565 |
| | | | | | | | | 39940 | 39935 | 39930 | 39925 | 39920 | 39915 | 39870 | 39865 | 39860 | 39855 | 39850 | 39845 |



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| FREQ1 | 31915 | 31920 | 31925 | 31980 | 31985 | 31990 | 31995 | 32230 | 32235 | 32240 | 32245 | 32250 | 32255 | 32300 | 32305 | 32310 | 32315 | 32320 | 32325 |
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| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 36230 | 27600 | 27610 | 27620 | 27730 | 27740 | 27750 | 27760 | 28230 | 28240 | 28250 | 28260 | 28270 | 28280 | 28370 | 28380 | 28390 | 28400 | 28410 | 28420 |
| 36235 | 27595 | 27605 | 27615 | 27725 | 27735 | 27745 | 27755 | 28225 | 28235 | 28245 | 28255 | 28265 | 28275 | 28365 | 28375 | 28385 | 28395 | 28405 | 28415 |
| 36300 | 27530 | 27540 | 27550 | 27660 | 27670 | 27680 | 27690 | 28160 | 28170 | 28180 | 28190 | 28200 | 28210 | 28300 | 28310 | 28320 | 28330 | 28340 | 28350 |
| 36305 | 27525 | 27535 | 27545 | 27655 | 27665 | 27675 | 27685 | 28155 | 28165 | 28175 | 28185 | 28195 | 28205 | 28295 | 28305 | 28315 | 28325 | 28335 | 28345 |
| 36310 | 27520 | 27530 | 27540 | 27650 | 27660 | 27670 | 27680 | 28150 | 28160 | 28170 | 28180 | 28190 | 28200 | 28290 | 28300 | 28310 | 28320 | 28330 | 28340 |
| 36315 | 27515 | 27525 | 27535 | 27645 | 27655 | 27665 | 27675 | 28145 | 28155 | 28165 | 28175 | 28185 | 28195 | 28285 | 28295 | 28305 | 28315 | 28325 | 28335 |
| 36320 | 27510 | 27520 | 27530 | 27640 | 27650 | 27660 | 27670 | 28140 | 28150 | 28160 | 28170 | 28180 | 28190 | 28280 | 28290 | 28300 | 28310 | 28320 | 28330 |
| 36325 | 27505 | 27515 | 27525 | 27635 | 27645 | 27655 | 27665 | 28135 | 28145 | 28155 | 28165 | 28175 | 28185 | 28275 | 28285 | 28295 | 28305 | 28315 | 28325 |
| 37085 | 26745 | 26755 | 26765 | 26875 | 26885 | 26895 | 26905 | 27375 | 27385 | 27395 | 27405 | 27415 | 27425 | 27515 | 27525 | 27535 | 27545 | 27555 | 27565 |
| 37090 | 26740 | 26750 | 26760 | 26870 | 26880 | 26890 | 26900 | 27370 | 27380 | 27390 | 27400 | 27410 | 27420 | 27510 | 27520 | 27530 | 27540 | 27550 | 27560 |
| 37095 | 26735 | 26745 | 26755 | 26865 | 26875 | 26885 | 26895 | 27365 | 27375 | 27385 | 27395 | 27405 | 27415 | 27505 | 27515 | 27525 | 27535 | 27545 | 27555 |
| 37185 | 26645 | 26655 | 26665 | 26775 | 26785 | 26795 | 26805 | 27275 | 27285 | 27295 | 27305 | 27315 | 27325 | 27415 | 27425 | 27435 | 27445 | 27455 | 27465 |
| 37190 | 26640 | 26650 | 26660 | 26770 | 26780 | 26790 | 26800 | 27270 | 27280 | 27290 | 27300 | 27310 | 27320 | 27410 | 27420 | 27430 | 27440 | 27450 | 27460 |
| 37195 | 26635 | 26645 | 26655 | 26765 | 26775 | 26785 | 26795 | 27265 | 27275 | 27285 | 27295 | 27305 | 27315 | 27405 | 27415 | 27425 | 27435 | 27445 | 27455 |
| 37705 | 26125 | 26135 | 26145 | 26255 | 26265 | 26275 | 26285 | 26755 | 26765 | 26775 | 26785 | 26795 | 26805 | 26895 | 26905 | 26915 | 26925 | 26935 | 26945 |
| 37710 | 26120 | 26130 | 26140 | 26250 | 26260 | 26270 | 26280 | 26750 | 26760 | 26770 | 26780 | 26790 | 26800 | 26890 | 26900 | 26910 | 26920 | 26930 | 26940 |
| 37715 | 26115 | 26125 | 26135 | 26245 | 26255 | 26265 | 26275 | 26745 | 26755 | 26765 | 26775 | 26785 | 26795 | 26885 | 26895 | 26905 | 26915 | 26925 | 26935 |
| 37910 | 25920 | 25930 | 25940 | 26050 | 26060 | 26070 | 26080 | 26550 | 26560 | 26570 | 26580 | 26590 | 26600 | 26690 | 26700 | 26710 | 26720 | 26730 | 26740 |
| 37915 | 25915 | 25925 | 25935 | 26045 | 26055 | 26065 | 26075 | 26545 | 26555 | 26565 | 26575 | 26585 | 26595 | 26685 | 26695 | 26705 | 26715 | 26725 | 26735 |



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| FREQ1 / FREQ2 | 31915 | 31920 | 31925 | 31980 | 31985 | 31990 | 31995 | 32230 | 32235 | 32240 | 32245 | 32250 | 32255 | 32300 | 32305 | 32310 | 32315 | 32320 | 32325 |
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| 37920 | 25910 | 25920 | 25930 | 26040 | 26050 | 26060 | 26070 | 26540 | 26550 | 26560 | 26570 | 26580 | 26590 | 26680 | 26690 | 26700 | 26710 | 26720 | 26730 |
| 37925 | 25905 | 25915 | 25925 | 26035 | 26045 | 26055 | 26065 | 26535 | 26545 | 26555 | 26565 | 26575 | 26585 | 26675 | 26685 | 26695 | 26705 | 26715 | 26725 |
| 37990 | 25840 | 25850 | 25860 | 25970 | 25980 | 25990 | 26000 | 26470 | 26480 | 26490 | 26500 | 26510 | 26520 | 26610 | 26620 | 26630 | 26640 | 26650 | 26660 |
| 37995 | 25835 | 25845 | 25855 | 25965 | 25975 | 25985 | 25995 | 26465 | 26475 | 26485 | 26495 | 26505 | 26515 | 26605 | 26615 | 26625 | 26635 | 26645 | 26655 |
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| 38005 | 25825 | 25835 | 25845 | 25955 | 25965 | 25975 | 25985 | 26455 | 26465 | 26475 | 26485 | 26495 | 26505 | 26595 | 26605 | 26615 | 26625 | 26635 | 26645 |
| 38010 | 25820 | 25830 | 25840 | 25950 | 25960 | 25970 | 25980 | 26450 | 26460 | 26470 | 26480 | 26490 | 26500 | 26590 | 26600 | 26610 | 26620 | 26630 | 26640 |
| 38015 | 25815 | 25825 | 25835 | 25945 | 25955 | 25965 | 25975 | 26445 | 26455 | 26465 | 26475 | 26485 | 26495 | 26585 | 26595 | 26605 | 26615 | 26625 | 26635 |
| 38020 | 25810 | 25820 | 25830 | 25940 | 25950 | 25960 | 25970 | 26440 | 26450 | 26460 | 26470 | 26480 | 26490 | 26580 | 26590 | 26600 | 26610 | 26620 | 26630 |
| 38025 | 25805 | 25815 | 25825 | 25935 | 25945 | 25955 | 25965 | 26435 | 26445 | 26455 | 26465 | 26475 | 26485 | 26575 | 26585 | 26595 | 26605 | 26615 | 26625 |
| 38030 | 25800 | 25810 | 25820 | 25930 | 25940 | 25950 | 25960 | 26430 | 26440 | 26450 | 26460 | 26470 | 26480 | 26570 | 26580 | 26590 | 26600 | 26610 | 26620 |
| 38035 | 25795 | 25805 | 25815 | 25925 | 25935 | 25945 | 25955 | 26425 | 26435 | 26445 | 26455 | 26465 | 26475 | 26565 | 26575 | 26585 | 26595 | 26605 | 26615 |
| 38140 | 25690 | 25700 | 25710 | 25820 | 25830 | 25840 | 25850 | 26320 | 26330 | 26340 | 26350 | 26360 | 26370 | 26460 | 26470 | 26480 | 26490 | 26500 | 26510 |
| 38145 | 25685 | 25695 | 25705 | 25815 | 25825 | 25835 | 25845 | 26315 | 26325 | 26335 | 26345 | 26355 | 26365 | 26455 | 26465 | 26475 | 26485 | 26495 | 26505 |
| 38150 | 25680 | 25690 | 25700 | 25810 | 25820 | 25830 | 25840 | 26310 | 26320 | 26330 | 26340 | 26350 | 26360 | 26450 | 26460 | 26470 | 26480 | 26490 | 26500 |
| 38155 | 25675 | 25685 | 25695 | 25805 | 25815 | 25825 | 25835 | 26305 | 26315 | 26325 | 26335 | 26345 | 26355 | 26445 | 26455 | 26465 | 26475 | 26485 | 26495 |
| 38160 | 25670 | 25680 | 25690 | 25800 | 25810 | 25820 | 25830 | 26300 | 26310 | 26320 | 26330 | 26340 | 26350 | 26440 | 26450 | 26460 | 26470 | 26480 | 26490 |
| 38165 | 25665 | 25675 | 25685 | 25795 | 25805 | 25815 | 25825 | 26295 | 26305 | 26315 | 26325 | 26335 | 26345 | 26435 | 26445 | 26455 | 26465 | 26475 | 26485 |
| 38540 | 25290 | 25300 | 25310 | 25420 | 25430 | 25440 | 25450 | 25920 | 25930 | 25940 | 25950 | 25960 | 25970 | 26060 | 26070 | 26080 | 26090 | 26100 | 26110 |


69

| FREQ1 | 31915 | 31920 | 31925 | 31980 | 31985 | 31990 | 31995 | 32230 | 32235 | 32240 | 32245 | 32250 | 32255 | 32300 | 32305 | 32310 | 32315 | 32320 | 32325 |
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| FREQ2 | | | | | | | | | | | | | | | | | | | |
| 38545 | 25285 | 25295 | 25305 | 25415 | 25425 | 25435 | 25445 | 25915 | 25925 | 25935 | 25945 | 25955 | 25965 | 26055 | 26065 | 26075 | 26085 | 26095 | 26105 |
| 38550 | 25280 | 25290 | 25300 | 25410 | 25420 | 25430 | 25440 | 25910 | 25920 | 25930 | 25940 | 25950 | 25960 | 26050 | 26060 | 26070 | 26080 | 26090 | 26100 |
| 38555 | 25275 | 25285 | 25295 | 25405 | 25415 | 25425 | 25435 | 25905 | 25915 | 25925 | 25935 | 25945 | 25955 | 26045 | 26055 | 26065 | 26075 | 26085 | 26095 |
| 38560 | 25270 | 25280 | 25290 | 25400 | 25410 | 25420 | 25430 | 25900 | 25910 | 25920 | 25930 | 25940 | 25950 | 26040 | 26050 | 26060 | 26070 | 26080 | 26090 |
| 38565 | 25265 | 25275 | 25285 | 25395 | 25405 | 25415 | 25425 | 25895 | 25905 | 25915 | 25925 | 25935 | 25945 | 26035 | 26045 | 26055 | 26065 | 26075 | 26085 |
| 38705 | 25125 | 25135 | 25145 | 25255 | 25265 | 25275 | 25285 | 25755 | 25765 | 25775 | 25785 | 25795 | 25805 | 25895 | 25905 | 25915 | 25925 | 25935 | 25945 |
| 38710 | 25120 | 25130 | 25140 | 25250 | 25260 | 25270 | 25280 | 25750 | 25760 | 25770 | 25780 | 25790 | 25800 | 25890 | 25900 | 25910 | 25920 | 25930 | 25940 |
| 38715 | 25115 | 25125 | 25135 | 25245 | 25255 | 25265 | 25275 | 25745 | 25755 | 25765 | 25775 | 25785 | 25795 | 25885 | 25895 | 25905 | 25915 | 25925 | 25935 |
| 39785 | 24045 | 24055 | 24065 | 24175 | 24185 | 24195 | 24205 | 24675 | 24685 | 24695 | 24705 | 24715 | 24725 | 24815 | 24825 | 24835 | 24845 | 24855 | 24865 |
| 39790 | 24040 | 24050 | 24060 | 24170 | 24180 | 24190 | 24200 | 24670 | 24680 | 24690 | 24700 | 24710 | 24720 | 24810 | 24820 | 24830 | 24840 | 24850 | 24860 |
| 39795 | 24035 | 24045 | 24055 | 24165 | 24175 | 24185 | 24195 | 24665 | 24675 | 24685 | 24695 | 24705 | 24715 | 24805 | 24815 | 24825 | 24835 | 24845 | 24855 |
| 39885 | 23945 | 23955 | 23965 | 24075 | 24085 | 24095 | 24105 | 24575 | 24585 | 24595 | 24605 | 24615 | 24625 | 24715 | 24725 | 24735 | 24745 | 24755 | 24765 |
| 39890 | 23940 | 23950 | 23960 | 24070 | 24080 | 24090 | 24100 | 24570 | 24580 | 24590 | 24600 | 24610 | 24620 | 24710 | 24720 | 24730 | 24740 | 24750 | 24760 |
| 39895 | 23935 | 23945 | 23955 | 24065 | 24075 | 24085 | 24095 | 24565 | 24575 | 24585 | 24595 | 24605 | 24615 | 24705 | 24715 | 24725 | 24735 | 24745 | 24755 |



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```
FREQ1       32700 32705 32710 32715 33550 33555 33560 33565 33820 33825 33830 33835 34360 34365 34370 34375 34380 34385
FREQ2
32700

32705

32710       32690
            32720

32715       32685 32695
            32730 32725

33550       31850 31860 31870
            34400 34395 34390

33555       31845 31855 31865 31875
            34410 34405 34400 34395

33560       31840 31850 31860 31870 33540
            34420 34415 34410 34405 33570

33565       31835 31845 31855 31865 33535 33545
            34430 34425 34420 34415 33580 33575

33820       31580 31590 31600 31610 33280 33290 33300
            34440 34435 34430 34425 34090 34085 34080

33825       31575 31585 31595 31605 33275 33285 33295 33305
            34450 34445 34440 34435 34100 34095 34090 34085

33830       31570 31580 31590 31600 33270 33280 33290 33300 33810
            34460 34455 34450 34445 34110 34105 34100 34095 33840

33835       31565 31575 31585 31595 33265 33275 33285 33295 33805 33815
            34470 34465 34460 34455 34120 34115 34110 34105 33850 33845

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| FREQ1 | 32700 | 32705 | 32710 | 32715 | 33550 | 33555 | 33560 | 33565 | 33820 | 33825 | 33830 | 33835 | 34360 | 34365 | 34370 | 34375 | 34380 | 34385 |
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| 39790 | 25610 | 25620 | 25630 | 25640 | 27310 | 27320 | 27330 | 27340 | 27850 | 27860 | 27870 | 27880 | 28930 | 28940 | 28950 | 28960 | 28970 | 28980 |
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| 39890 | 25510 | 25520 | 25530 | 25540 | 27210 | 27220 | 27230 | 27240 | 27750 | 27760 | 27770 | 27780 | 28830 | 28840 | 28850 | 28860 | 28870 | 28880 |
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FREQ1   34395 34625 34630 34635 34860 34865 34870 34875 35020 35025 35030 35035 35180 35185 35190 35195 35200 35205 35350
FREQ2
34395


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        34855

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        34875 34645 34640

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35025   33765 34225 34235 34245 34695 34705 34715 34725 35015
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| FREQ1 | 34395 | 34625 | 34630 | 34635 | 34860 | 34865 | 34870 | 34875 | 35020 | 35025 | 35030 | 35035 | 35180 | 35185 | 35190 | 35195 | 35200 | 35205 | 35350 |
| FREQ2 | | | | | | | | | | | | | | | | | | | |
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| | 36315 | 36085 | 36080 | 36075 | 35850 | 35845 | 35840 | 35835 | 35690 | 35685 | 35680 | 35675 | 35530 | 35525 | 35520 | 35515 | 35510 | 35505 | 35360 |
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| 35375 | 33415 | 33875 | 33885 | 33895 | 34345 | 34355 | 34365 | 34375 | 34665 | 34675 | 34685 | 34695 | 34985 | 34995 | 35005 | 35015 | 35025 | 35035 | 35325 |
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| | 37755 | 37525 | 37520 | 37515 | 37290 | 37285 | 37280 | 37275 | 37130 | 37125 | 37120 | 37115 | 36970 | 36965 | 36960 | 36955 | 36950 | 36945 | 36800 |
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| | 37765 | 37535 | 37530 | 37525 | 37300 | 37295 | 37290 | 37285 | 37140 | 37135 | 37130 | 37125 | 36980 | 36975 | 36970 | 36965 | 36960 | 36955 | 36810 |
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| FREQ1 | 34395 | 34625 | 34630 | 34635 | 34860 | 34865 | 34870 | 34875 | 35020 | 35025 | 35030 | 35035 | 35180 | 35185 | 35190 | 35195 | 35200 | 35205 | 35350 |
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| 36235 | 32555 | 33015 | 33025 | 33035 | 33485 | 33495 | 33505 | 33515 | 33805 | 33815 | 33825 | 33835 | 34125 | 34135 | 34145 | 34155 | 34165 | 34175 | 34465 |
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| 36305 | 32485 | 32945 | 32955 | 32965 | 33415 | 33425 | 33435 | 33445 | 33735 | 33745 | 33755 | 33765 | 34055 | 34065 | 34075 | 34085 | 34095 | 34105 | 34395 |
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| | 38225 | 37995 | 37990 | 37985 | 37760 | 37755 | 37750 | 37745 | 37600 | 37595 | 37590 | 37585 | 37440 | 37435 | 37430 | 37425 | 37420 | 37415 | 37270 |
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| 37095 | 31695 | 32155 | 32165 | 32175 | 32625 | 32635 | 32645 | 32655 | 32945 | 32955 | 32965 | 32975 | 33265 | 33275 | 33285 | 33295 | 33305 | 33315 | 33605 |
| | 39795 | 39565 | 39560 | 39555 | 39330 | 39325 | 39320 | 39315 | 39170 | 39165 | 39160 | 39155 | 39010 | 39005 | 39000 | 38995 | 38990 | 38985 | 38840 |
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| 37710 | 31080 | 31540 | 31550 | 31560 | 32010 | 32020 | 32030 | 32040 | 32330 | 32340 | 32350 | 32360 | 32650 | 32660 | 32670 | 32680 | 32690 | 32700 | 32990 |
| 37715 | 31075 | 31535 | 31545 | 31555 | 32005 | 32015 | 32025 | 32035 | 32325 | 32335 | 32345 | 32355 | 32645 | 32655 | 32665 | 32675 | 32685 | 32695 | 32985 |
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FREQ1  34395 34625 34630 34635 34860 34865 34870 34875 35020 35025 35030 35035 35180 35185 35190 35195 35200 35205 35350
FREQ2
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| FREQ1 / FREQ2 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 38555 | 30235 | 30695 | 30705 | 30715 | 31165 | 31175 | 31185 | 31195 | 31485 | 31495 | 31505 | 31515 | 31805 | 31815 | 31825 | 31835 | 31845 | 31855 | 32145 |
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| 38565 | 30225 | 30685 | 30695 | 30705 | 31155 | 31165 | 31175 | 31185 | 31475 | 31485 | 31495 | 31505 | 31795 | 31805 | 31815 | 31825 | 31835 | 31845 | 32135 |
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| FREQ1 | 35355 | 35360 | 35365 | 35370 | 35375 | 35380 | 35385 | 35390 | 35395 | 35400 | 35405 | 35410 | 35415 | 36060 | 36065 | 36070 | 36075 | 36080 | 36085 |
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84

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| 38565 | 32145 | 32155 | 32165 | 32175 | 32185 | 32195 | 32205 | 32215 | 32225 | 32235 | 32245 | 32255 | 32265 | 33555 | 33565 | 33575 | 33585 | 33595 | 33605 |
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85

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FREQ2
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36240

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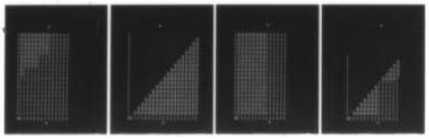
AD-A054 175 ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER ANNAPO--ETC F/G 9/3
THIRD ORDER-TWO SIGNAL INTERMODULATION PRODUCTS FOR 242 FREQUEN--ETC(U)
NOV 70 J M MORROW
F19628-70-C-0291
UNCLASSIFIED ECAC-PR-70-018
NL

2 OF 2
AD A054175



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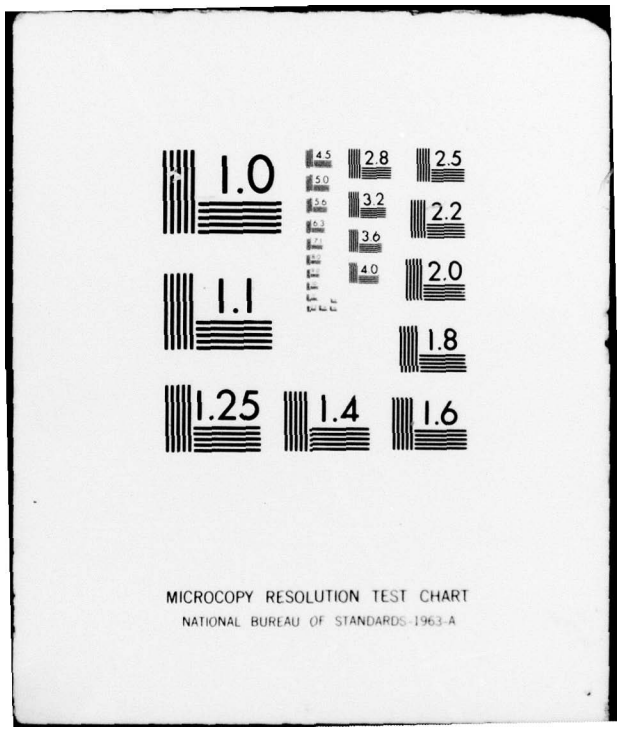
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4.5
5.0
5.6
6.3
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

| | | | | | | | | | | | | | | | | | | | | |
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| FREQ2 | | | | | | | | | | | | | | | | | | | | |
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| 38560 | 33900 | 33910 | 34040 | 34050 | 34060 | 34070 | 34080 | 34090 | 35610 | 35620 | 35630 | 35810 | 35820 | 35830 | 36850 | 36860 | 36870 | 37260 | 37270 | |
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| | | | | | | | | | | | | 39945 | 39940 | 39935 | 39425 | 39420 | 39415 | 39220 | 39215 | |
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| | | | | | | | | | | | | | | | 39715 | 39710 | 39705 | 39510 | 39505 | |
| 38715 | 33745 | 33755 | 33885 | 33895 | 33905 | 33915 | 33925 | 33935 | 35455 | 35465 | 35475 | 35655 | 35665 | 35675 | 36695 | 36705 | 36715 | 37105 | 37115 | |
| | | | | | | | | | | | | | | | 39725 | 39720 | 39715 | 39520 | 39515 | |
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FREQ2
37920


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       37930

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       38060 38055

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       38070 38065 38000

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       38080 38075 38010 38005

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       38090 38085 38020 38015 38010

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