



LAMPIRAN – LAMPIRAN

Lampiran 1. Capture Data Iperf3 dan Ping

Lampiran Pengujian 20 MHz Ch 11 pg 6

```

1.20mhz ch11 pg6 - Notepad
File Edit Format View Help
[ 4] 18.00-18.57 sec 3.01 MBytes 44.6 Mbits/sec
-----
[ ID] Interval      Transfer      Bandwidth
[ 4] 0.00-18.57 sec 100 MBytes 45.2 Mbits/sec      sender
[ 4] 0.00-18.57 sec 100 MBytes 45.2 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=48ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=40ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=33ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=35ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=68ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=62ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=73ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 30ms, Maximum = 73ms, Average = 45ms
  
```

Lampiran Pengujian 20 MHz Ch 11 pg 7

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1.20mhz ch11 pg7 - Notepad
File Edit Format View Help
[ 4] 18.00-18.49 sec 2.65 MBytes 45.9 Mbits/sec
-----
[ ID] Interval      Transfer      Bandwidth
[ 4] 0.00-18.49 sec 100 MBytes 45.4 Mbits/sec      sender
[ 4] 0.00-18.49 sec 100 MBytes 45.4 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=34ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=44ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=43ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=44ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=44ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=34ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=33ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 30ms, Maximum = 44ms, Average = 36ms
  
```

Lampiran Pengujian 20 MHz Ch 11 pg 8

```

1.20mhz ch11 pg8 - Notepad
File Edit Format View Help
[ 4] 18.01-19.00 sec 4.92 MBytes 41.6 Mbits/sec
[ 4] 19.00-19.85 sec 4.31 MBytes 42.5 Mbits/sec
-----
[ ID] Interval      Transfer      Bandwidth
[ 4] 0.00-19.85 sec 100 MBytes 42.3 Mbits/sec      sender
[ 4] 0.00-19.85 sec 100 MBytes 42.2 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=37ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=35ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=29ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=45ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=38ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=31ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=31ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 27ms, Maximum = 45ms, Average = 32ms
  
```

Lampiran Pengujian 20 MHz Ch 11 pg 9

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1.20mhz ch11 pg9 - Notepad
File Edit Format View Help
[ 4 ] 25.01-25.73 sec 2.46 MBytes 28.4 Mbits/sec
-----
[ ID] Interval      Transfer  Bandwidth
[ 4 ] 0.00-25.73 sec 100 MBytes 32.6 Mbits/sec
[ 4 ] 0.00-25.73 sec 100 MBytes 32.6 Mbits/sec
iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=33ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=49ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=31ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=38ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 27ms, Maximum = 49ms, Average = 33ms

```

Lampiran Pengujian 20 MHz Ch 11 pg 10

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1.20mhz ch11 pg10 - Notepad
File Edit Format View Help
[ 4 ] 23.00-24.01 sec 3.94 MBytes 32.7 Mbits/sec
[ 4 ] 24.01-25.01 sec 4.31 MBytes 36.3 Mbits/sec
[ 4 ] 25.01-26.01 sec 4.12 MBytes 34.5 Mbits/sec
[ 4 ] 26.01-26.58 sec 2.71 MBytes 48.0 Mbits/sec
-----
[ ID] Interval      Transfer  Bandwidth
[ 4 ] 0.00-26.58 sec 100 MBytes 31.6 Mbits/sec
[ 4 ] 0.00-26.58 sec 100 MBytes 31.5 Mbits/sec
iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=35ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=36ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=44ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=77ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=39ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=29ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:

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Lampiran Pengujian 40 MHz Ch 3 pg 5

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1.40mhz ch3 pg5 - Notepad
File Edit Format View Help
[ 4 ] 9.00-10.00 sec 8.37 MBytes 70.3 Mbits/sec
[ 4 ] 10.00-11.00 sec 7.44 MBytes 62.4 Mbits/sec
[ 4 ] 11.00-12.00 sec 8.55 MBytes 71.6 Mbits/sec
[ 4 ] 12.00-12.85 sec 6.83 MBytes 68.2 Mbits/sec
-----
[ ID] Interval      Transfer  Bandwidth
[ 4 ] 0.00-12.85 sec 100 MBytes 65.3 Mbits/sec
[ 4 ] 0.00-12.85 sec 100 MBytes 65.3 Mbits/sec
iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=202ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=34ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 202ms, Average = 41ms

```

Lampiran Pengujian 40 MHz Ch 3 pg 6

```

1.40mhz ch3 pg6 - Notepad
File Edit Format View Help
[ 4 ] 175.01-176.01 sec 567 KBytes 4.64 Mbits/sec
[ 4 ] 176.01-177.01 sec 630 KBytes 5.19 Mbits/sec
[ 4 ] 177.01-178.01 sec 504 KBytes 4.11 Mbits/sec
[ 4 ] 178.01-178.54 sec 378 KBytes 5.85 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4 ] 0.00-178.54 sec 100 MBytes 4.70 Mbits/sec      sender
[ 4 ] 0.00-178.54 sec 100 MBytes 4.70 Mbits/sec      receiver

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=461ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=314ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=177ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=118ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=108ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=119ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=138ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=138ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=114ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=109ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 108ms, Maximum = 461ms, Average = 179ms

```

Lampiran Pengujian 40 MHz Ch 3 pg 7

```

1.40mhz ch3 pg7 - Notepad
File Edit Format View Help
[ 4 ] 196.00-197.00 sec 504 KBytes 4.13 Mbits/sec
[ 4 ] 197.00-198.00 sec 567 KBytes 4.64 Mbits/sec
[ 4 ] 198.00-198.81 sec 441 KBytes 4.51 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4 ] 0.00-198.81 sec 100 MBytes 4.22 Mbits/sec      sender
[ 4 ] 0.00-198.81 sec 100 MBytes 4.22 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=116ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=126ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=133ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=115ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=95ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=94ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=151ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=106ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=135ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=144ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 94ms, Maximum = 151ms, Average = 121ms

```

Lampiran Pengujian 40 MHz Ch 3 pg 8

```

1.40mhz ch3 pg8 - Notepad
File Edit Format View Help
[ 4 ] 197.00-198.00 sec 504 KBytes 4.12 Mbits/sec
[ 4 ] 198.00-198.79 sec 441 KBytes 4.58 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4 ] 0.00-198.79 sec 100 MBytes 4.22 Mbits/sec      sender
[ 4 ] 0.00-198.79 sec 100 MBytes 4.22 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=427ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=564ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=123ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=116ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=107ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=106ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=113ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=104ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=112ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=112ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 104ms, Maximum = 564ms, Average = 188ms

```

Lampiran Pengujian 40 MHz Ch 3 pg 9

```

1.40mhz ch3 pg9 - Notepad
File Edit Format View Help
[ 4 ] 198.01-199.01 sec 567 KBytes 4.64 Mbits/sec
[ 4 ] 199.01-199.45 sec 252 KBytes 4.71 Mbits/sec
-----
[ ID] Interval      Transfer      Bandwidth
[ 4 ] 0.00-199.45 sec 100 MBytes 4.21 Mbits/sec
[ 4 ] 0.00-199.45 sec 100 MBytes 4.21 Mbits/sec

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=547ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=204ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=315ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=146ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=96ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=107ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=104ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=143ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=147ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=118ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 96ms, Maximum = 547ms, Average = 192ms

```

Lampiran Pengujian 40 MHz Ch 3 pg 10

```

1.40mhz ch3 pg10 - Notepad
File Edit Format View Help
[ 4 ] 171.00-172.00 sec 567 KBytes 4.64 Mbits/sec
[ 4 ] 172.00-172.29 sec 189 KBytes 5.47 Mbits/sec
-----
[ ID] Interval      Transfer      Bandwidth
[ 4 ] 0.00-172.29 sec 100 MBytes 4.87 Mbits/sec
[ 4 ] 0.00-172.29 sec 100 MBytes 4.87 Mbits/sec

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=653ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=167ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=107ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=109ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=100ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=100ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=101ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=101ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=101ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=98ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 98ms, Maximum = 653ms, Average = 163ms

```

Lampiran Pengujian 40 MHz Ch 3 pg 11

```

1.40mhz ch3 pg11 - Notepad
File Edit Format View Help
[ 4 ] 198.01-198.48 sec 252 KBytes 4.39 Mbits/sec
-----
[ ID] Interval      Transfer      Bandwidth
[ 4 ] 0.00-198.48 sec 100 MBytes 4.23 Mbits/sec
[ 4 ] 0.00-198.48 sec 100 MBytes 4.23 Mbits/sec

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=626ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=420ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=96ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=96ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=107ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=129ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=99ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=104ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=101ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=105ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 96ms, Maximum = 626ms, Average = 188ms

```

Lampiran Pengujian 40 MHz Ch 11 pg 3


```

1.40mhz.ch11.pg3 - Notepad
File Edit Format View Help
[ 4 ] 12.00-12.72 sec 7.01 MBytes 81.9 Mbits/sec
-----
[ ID ] Interval      Transfer      Bandwidth
[ 4 ] 0.00-12.72 sec 100 MBytes 66.0 Mbits/sec      sender
[ 4 ] 0.00-12.72 sec 100 MBytes 65.9 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=17ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=17ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=17ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=17ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=17ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=17ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 17ms, Maximum = 19ms, Average = 17ms

```

Lampiran Pengujian 40 MHz Ch 11 pg 4

```

1.40mhz.ch11.pg4 - Notepad
File Edit Format View Help
[ 4 ] 11.00-12.00 sec 7.38 MBytes 62.0 Mbits/sec
[ 4 ] 12.00-13.01 sec 7.69 MBytes 64.3 Mbits/sec
[ 4 ] 13.01-13.14 sec 945 KBytes 56.2 Mbits/sec
-----
[ ID ] Interval      Transfer      Bandwidth
[ 4 ] 0.00-13.14 sec 100 MBytes 63.8 Mbits/sec      sender
[ 4 ] 0.00-13.14 sec 100 MBytes 63.8 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=22ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=29ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=22ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=23ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=31ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 19ms, Maximum = 31ms, Average = 23ms

```

Lampiran Pengujian 40 MHz Ch 11 pg 5

```

1.40mhz.ch11.pg5 - Notepad
File Edit Format View Help
[ 4 ] 16.02-16.54 sec 3.75 MBytes 60.2 Mbits/sec
-----
[ ID ] Interval      Transfer      Bandwidth
[ 4 ] 0.00-16.54 sec 100 MBytes 50.7 Mbits/sec      sender
[ 4 ] 0.00-16.54 sec 100 MBytes 50.7 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=715ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=200ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=210ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 715ms, Average = 129ms

```

Lampiran Pengujian 40 MHz Ch 11 pg 6

```

1.40mhz ch11 pg6 - Notepad
File Edit Format View Help
[ 4] 14.01-15.00 sec 7.26 MBytes 61.4 Mbits/sec
[ 4] 15.00-15.29 sec 2.28 MBytes 67.1 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-15.29 sec 100 MBytes 54.9 Mbits/sec      sender
[ 4] 0.00-15.29 sec 100 MBytes 54.9 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=573ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=29ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=22ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=52ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=34ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 573ms, Average = 81ms

```

Lampiran Pengujian 40 MHz Ch 11 pg 7

```

1.40mhz ch11 pg7 - Notepad
File Edit Format View Help
[ 4] 17.01-17.21 sec 1.29 MBytes 53.4 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-17.21 sec 100 MBytes 48.8 Mbits/sec      sender
[ 4] 0.00-17.21 sec 100 MBytes 48.7 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=128ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=232ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=237ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=23ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=22ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=33ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=23ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 237ms, Average = 75ms

```

Lampiran Pengujian 40 MHz Ch 11 pg 8

```

1.40mhz ch11 pg8 - Notepad
File Edit Format View Help
[ 4] 16.01-16.97 sec 4.98 MBytes 43.6 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-16.97 sec 100 MBytes 49.5 Mbits/sec      sender
[ 4] 0.00-16.97 sec 100 MBytes 49.4 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=47ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=243ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=255ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=18ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=41ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 18ms, Maximum = 255ms, Average = 71ms

```

Lampiran Pengujian 40 MHz Ch 11 pg 9

```

1.40mhz.ch11.pg9 - Notepad
File Edit Format View Help
[ 4 ] 14.01-15.00 sec 6.28 MBytes 52.8 Mbits/sec
[ 4 ] 15.00-15.87 sec 6.09 MBytes 58.8 Mbits/sec
-----
[ ID ] Interval      Transfer      Bandwidth
[ 4 ] 0.00-15.87 sec 100 MBytes 52.9 Mbits/sec          sender
[ 4 ] 0.00-15.87 sec 100 MBytes 52.8 Mbits/sec          receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=118ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=129ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=32ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=21ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=33ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=20ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=19ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 19ms, Maximum = 129ms, Average = 44ms

```

Lampiran Pengujian 40 MHz Ch 10 pg 10

```

1.40mhz.ch11.pg10 - Notepad
File Edit Format View Help
[ 4 ] 257.01-258.01 sec 504 KBytes 4.13 Mbits/sec
[ 4 ] 258.01-258.24 sec 189 KBytes 6.75 Mbits/sec
-----
[ ID ] Interval      Transfer      Bandwidth
[ 4 ] 0.00-258.24 sec 100 MBytes 3.25 Mbits/sec          sender
[ 4 ] 0.00-258.24 sec 100 MBytes 3.25 Mbits/sec          receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=110ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=630ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=203ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=126ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=152ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=144ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=108ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=112ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=144ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=132ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 108ms, Maximum = 630ms, Average = 186ms

```

Lampiran Pengujian 20 MHz Ch 1 pg 2

```

2.20mhz.ch1.pg2 - Notepad
File Edit Format View Help
[ 4 ] 18.01-19.01 sec 4.74 MBytes 39.7 Mbits/sec
[ 4 ] 19.01-19.53 sec 1.97 MBytes 31.9 Mbits/sec
-----
[ ID ] Interval      Transfer      Bandwidth
[ 4 ] 0.00-19.53 sec 100 MBytes 43.0 Mbits/sec          sender
[ 4 ] 0.00-19.53 sec 100 MBytes 43.0 Mbits/sec          receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=46ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=23ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=29ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=46ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 23ms, Maximum = 46ms, Average = 29ms

```

Lampiran Pengujian 20 MHz Ch 1 pg 3


```

2.20mhz ch1 pg3 - Notepad
File Edit Format View Help
[ 4] 17.01-18.01 sec 4.98 MBytes 41.7 Mbits/sec
[ 4] 18.01-19.01 sec 4.00 MBytes 33.6 Mbits/sec
[ 4] 19.01-20.01 sec 4.37 MBytes 36.6 Mbits/sec
[ 4] 20.01-20.86 sec 4.80 MBytes 47.2 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-20.86 sec 100 MBytes 40.2 Mbits/sec      sender
[ 4] 0.00-20.86 sec 100 MBytes 40.2 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=43ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=37ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 43ms, Average = 28ms

```

Lampiran Pengujian 20 MHz Ch 1 pg 4

```

2.20mhz ch1 pg4 - Notepad
File Edit Format View Help
[ 4] 14.01-15.01 sec 5.72 MBytes 48.2 Mbits/sec
[ 4] 15.01-16.00 sec 5.66 MBytes 47.7 Mbits/sec
[ 4] 16.00-17.00 sec 5.29 MBytes 44.3 Mbits/sec
[ 4] 17.00-17.97 sec 5.04 MBytes 43.8 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-17.97 sec 100 MBytes 46.7 Mbits/sec      sender
[ 4] 0.00-17.97 sec 100 MBytes 46.7 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=29ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 30ms, Average = 26ms

```

Lampiran Pengujian 20 MHz Ch 1 pg 5

```

2.20mhz ch1 pg5 - Notepad
File Edit Format View Help
[ 4] 16.01-17.00 sec 5.97 MBytes 50.4 Mbits/sec
[ 4] 17.00-17.65 sec 3.94 MBytes 50.7 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-17.65 sec 100 MBytes 47.5 Mbits/sec      sender
[ 4] 0.00-17.65 sec 100 MBytes 47.5 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=42ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=42ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=31ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 42ms, Average = 29ms

```

Lampiran Pengujian 20 MHz Ch 1 pg 6

```

2.20mhz ch1 pg6 - Notepad
File Edit Format View Help
[ 4] 16.00-17.00 sec 6.09 MBytes 51.3 Mbits/sec
[ 4] 17.00-17.50 sec 2.95 MBytes 49.8 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-17.50 sec 100 MBytes 48.0 Mbits/sec      sender
[ 4] 0.00-17.50 sec 100 MBytes 47.9 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=46ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 46ms, Average = 27ms

```

Lampiran Pengujian 20 MHz Ch 6 pg 7

```

2.20mhz ch6 pg7 - Notepad
File Edit Format View Help
[ 4] 39.01-39.36 sec 882 KBytes 21.1 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-39.36 sec 100 MBytes 21.3 Mbits/sec      sender
[ 4] 0.00-39.36 sec 100 MBytes 21.3 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=123ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=126ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=66ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=30ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 126ms, Average = 50ms

```

Lampiran Pengujian 20 MHz Ch 6 pg 8

```

2.20mhz ch6 pg8 - Notepad
File Edit Format View Help
[ 4] 22.01-23.01 sec 4.06 MBytes 34.1 Mbits/sec
[ 4] 23.01-24.00 sec 4.00 MBytes 33.7 Mbits/sec
[ 4] 24.00-25.01 sec 4.25 MBytes 35.5 Mbits/sec
[ 4] 25.01-25.06 sec 252 KBytes 40.3 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-25.06 sec 100 MBytes 33.5 Mbits/sec      sender
[ 4] 0.00-25.06 sec 100 MBytes 33.5 Mbits/sec      receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=31ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=34ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=29ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 34ms, Average = 27ms

```

Lampiran Pengujian 20 MHz Ch 6 pg 9

```

2.20mhz ch6 pg9 - Notepad
File Edit Format View Help
[ 4] 16.01-17.00 sec 5.11 MBytes 43.0 Mbits/sec
[ 4] 17.00-18.00 sec 5.11 MBytes 42.7 Mbits/sec
[ 4] 18.00-19.00 sec 5.23 MBytes 44.0 Mbits/sec
[ 4] 19.00-19.37 sec 1.78 MBytes 41.1 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-19.37 sec 100 MBytes 43.3 Mbits/sec
[ 4] 0.00-19.37 sec 100 MBytes 43.3 Mbits/sec
sender
receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=62ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=61ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=27ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 62ms, Average = 33ms

```

Lampiran Pengujian 20 MHz Ch 6 pg 10

```

2.20mhz ch6 pg10 - Notepad
File Edit Format View Help
[ 4] 15.00-16.01 sec 5.29 MBytes 44.0 Mbits/sec
[ 4] 16.01-17.01 sec 5.11 MBytes 43.0 Mbits/sec
[ 4] 17.01-18.01 sec 5.29 MBytes 44.4 Mbits/sec
[ 4] 18.01-18.43 sec 2.34 MBytes 46.7 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-18.43 sec 100 MBytes 45.5 Mbits/sec
[ 4] 0.00-18.43 sec 100 MBytes 45.5 Mbits/sec
sender
receiver

iperf Done.

C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=50ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=52ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=28ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 52ms, Average = 30ms

```

Lampiran Pengujian 20 MHz Ch 6 pg 11

```

2.20mhz ch6 pg11 - Notepad
File Edit Format View Help
[ 4] 15.00-16.01 sec 5.97 MBytes 49.5 Mbits/sec
[ 4] 16.01-17.01 sec 5.66 MBytes 47.4 Mbits/sec
[ 4] 17.01-17.71 sec 3.88 MBytes 46.5 Mbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-17.71 sec 100 MBytes 47.4 Mbits/sec
[ 4] 0.00-17.71 sec 100 MBytes 47.3 Mbits/sec
sender
receiver

iperf Done.

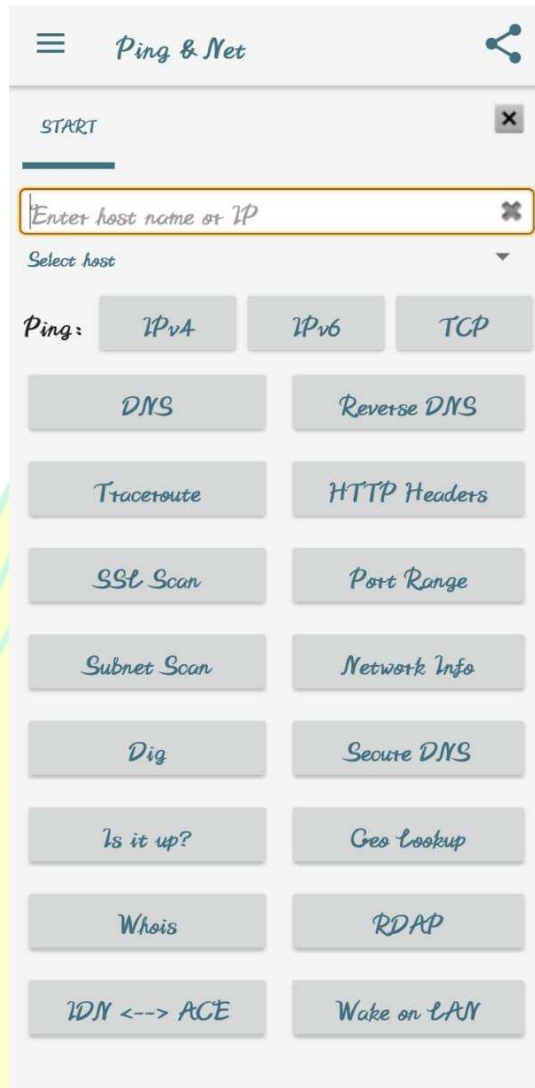
C:\Users\user>ping 192.168.0.103 -l 50000 -n 10

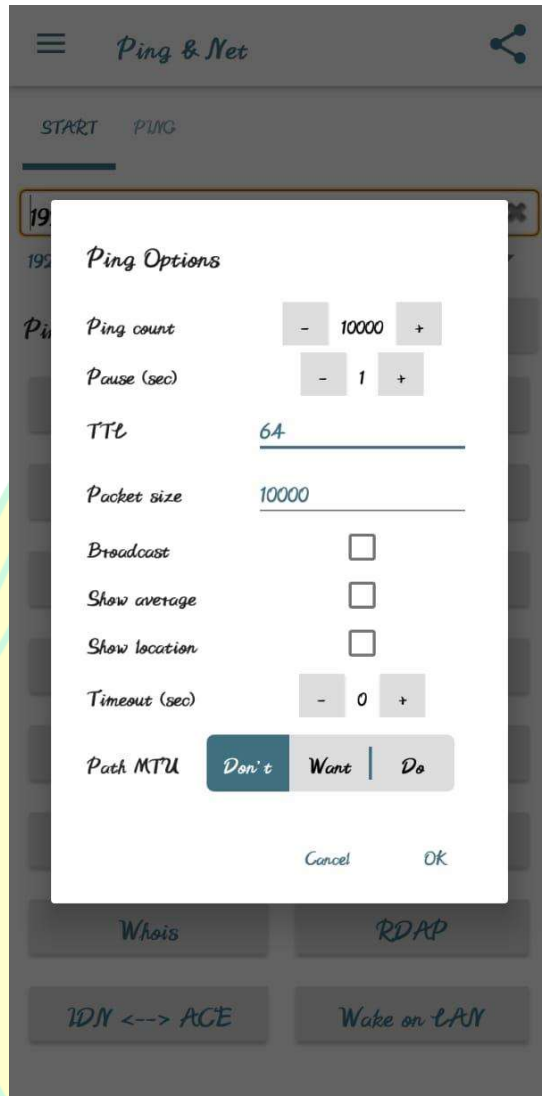
Pinging 192.168.0.103 with 50000 bytes of data:
Reply from 192.168.0.103: bytes=50000 time=41ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=61ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=25ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=24ms TTL=128
Reply from 192.168.0.103: bytes=50000 time=26ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 10, Received = 10, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 61ms, Average = 29ms

```

Tampilan Ping & Net



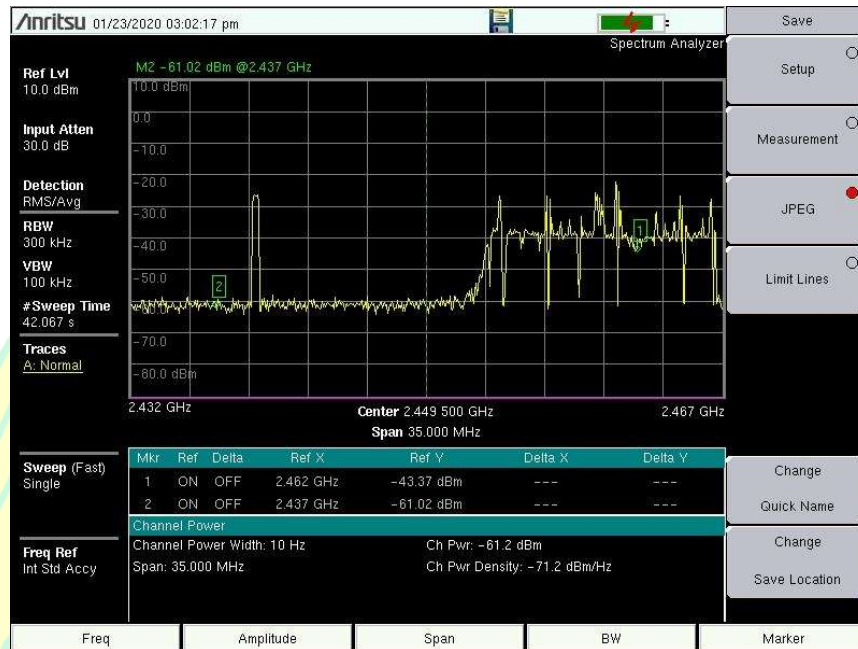


```
☰ Ping & Net 🔗  
START PING ✕  
--- 23 Jan 2020 12:39:58 AM  
--- IP (wlan0) 192.168.0.100  
--- Connection: WIFI  
  
PING 192.168.0.1 (192.168.0.1) 10000(10028)  
bytes of data.  
10008 bytes from 192.168.0.1: icmp_seq=1  
ttl=64 time=49.1 ms  
10008 bytes from 192.168.0.1: icmp_seq=2  
ttl=64 time=35.3 ms  
10008 bytes from 192.168.0.1: icmp_seq=3  
ttl=64 time=18.6 ms  
10008 bytes from 192.168.0.1: icmp_seq=4  
ttl=64 time=26.1 ms  
10008 bytes from 192.168.0.1: icmp_seq=5  
ttl=64 time=24.5 ms  
10008 bytes from 192.168.0.1: icmp_seq=6  
ttl=64 time=17.5 ms  
10008 bytes from 192.168.0.1: icmp_seq=7  
ttl=64 time=35.8 ms  
10008 bytes from 192.168.0.1: icmp_seq=8  
ttl=64 time=14.8 ms  
10008 bytes from 192.168.0.1: icmp_seq=9  
ttl=64 time=29.7 ms  
10008 bytes from 192.168.0.1: icmp_seq=10  
ttl=64 time=13.2 ms  
10008 bytes from 192.168.0.1: icmp_seq=11  
ttl=64 time=9.48 ms
```

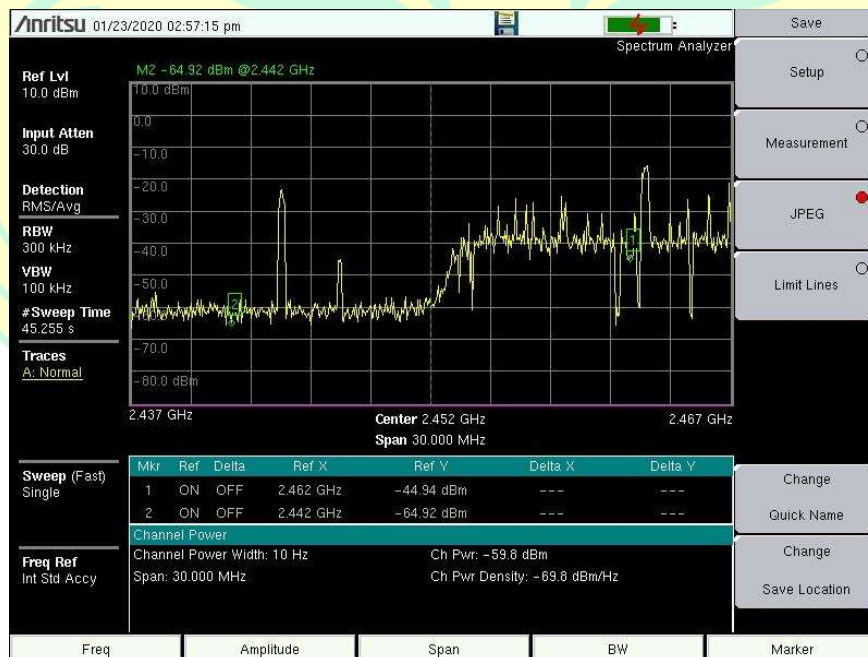
SITAS NEGERI JAKARTA

Lampiran 2. Spectrum Analyzer

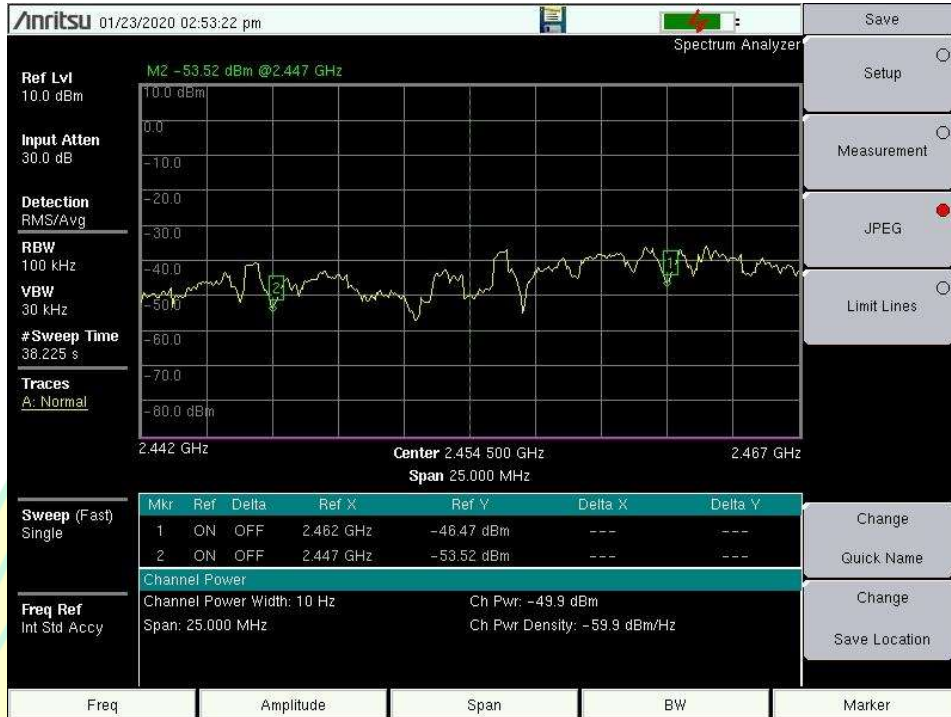
Tampilan 20 MHz Channel 11 Penganggu Ch 6



Tampilan 20 MHz Channel 11 Penganggu Ch 7



Tampilan 20 MHz Channel 11 Penganggu Ch 8



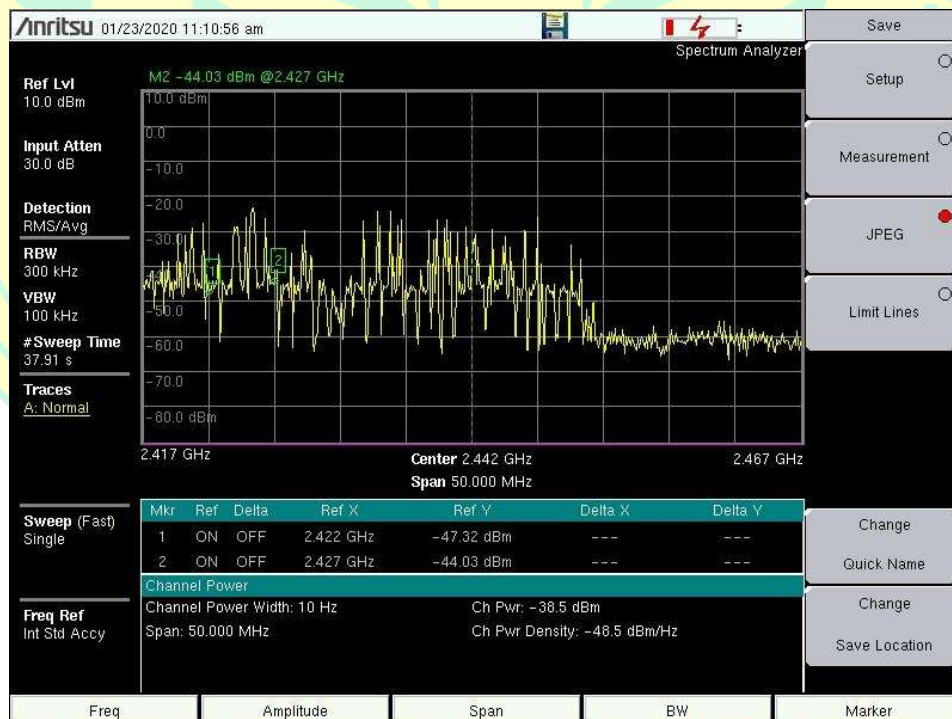
Tampilan 20 MHz Channel 11 Pengganggu Ch 9



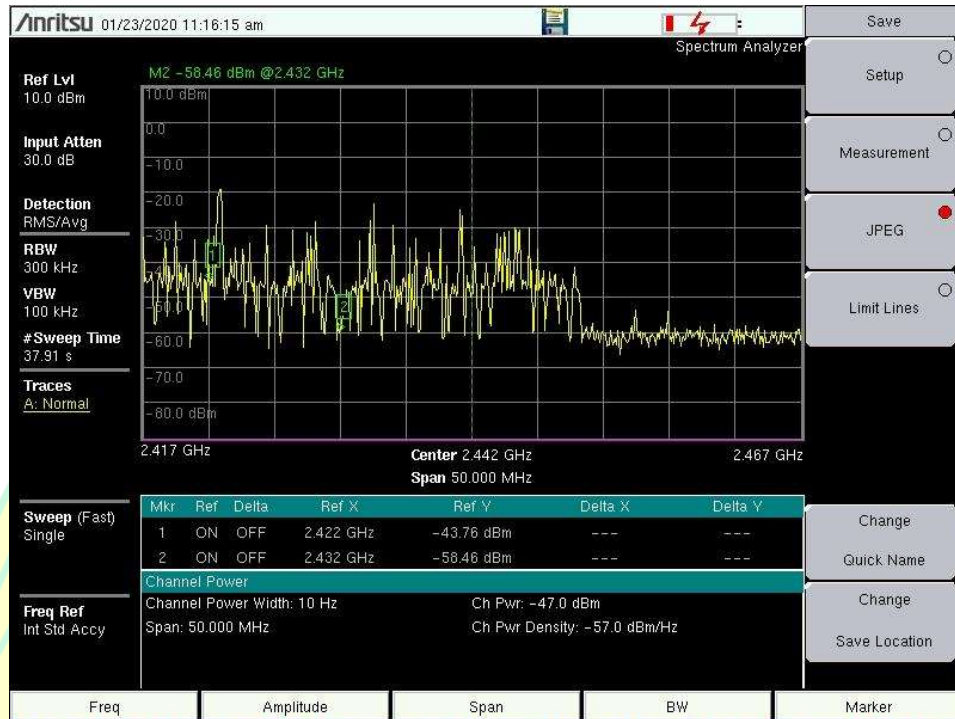
Tampilan 20 MHz Channel 11 Pengganggu Ch 10



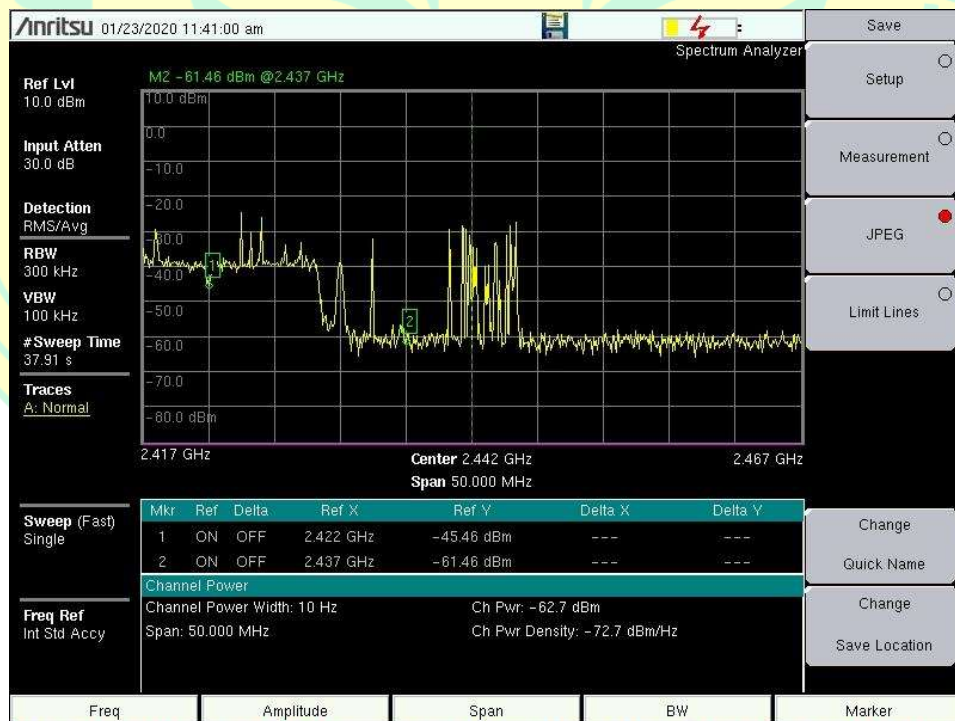
Tampilan 40 MHz Channel 3 Pengganggu Ch 4



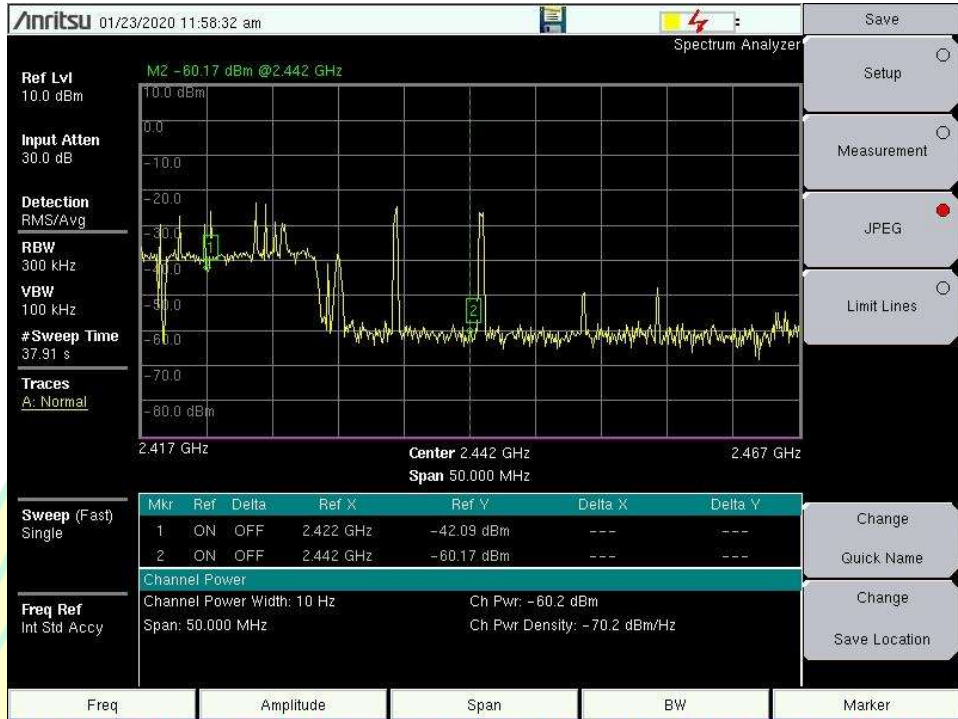
Tampilan 40 MHz Channel 3 Pengganggu Ch 5



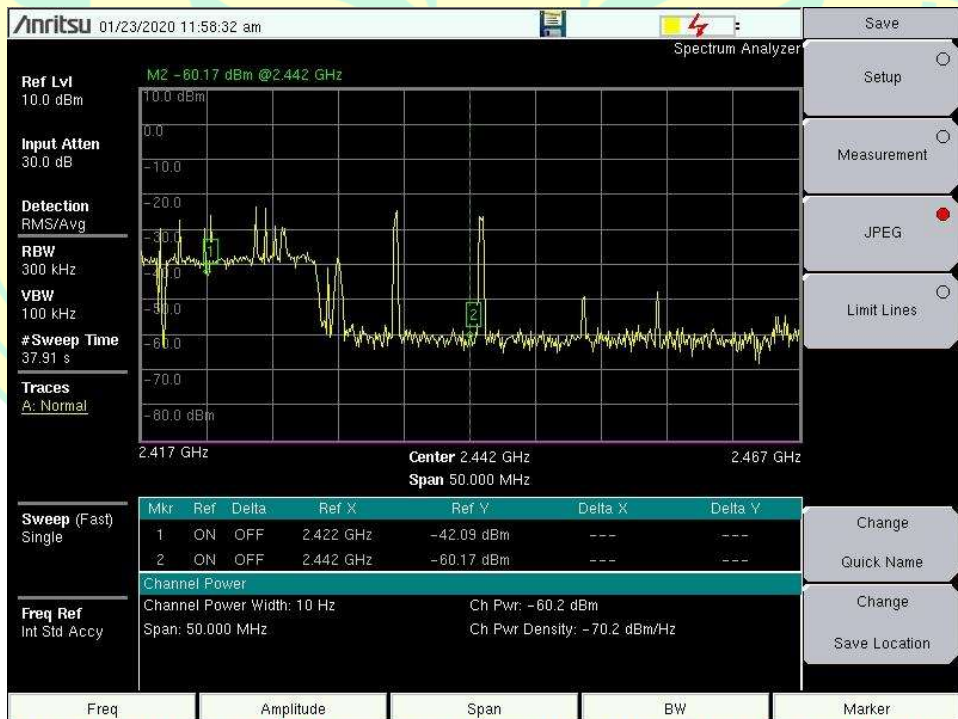
Tampilan 40 MHz Channel 3 Pengganggu Ch 6



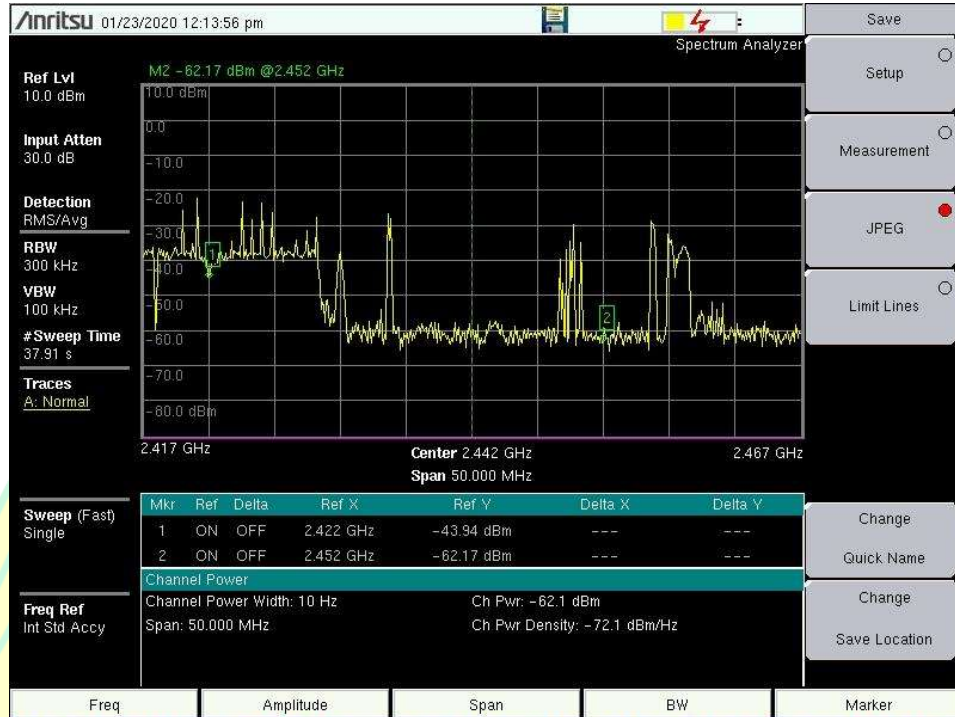
Tampilan 40 MHz Channel 3 Pengganggu Ch 7



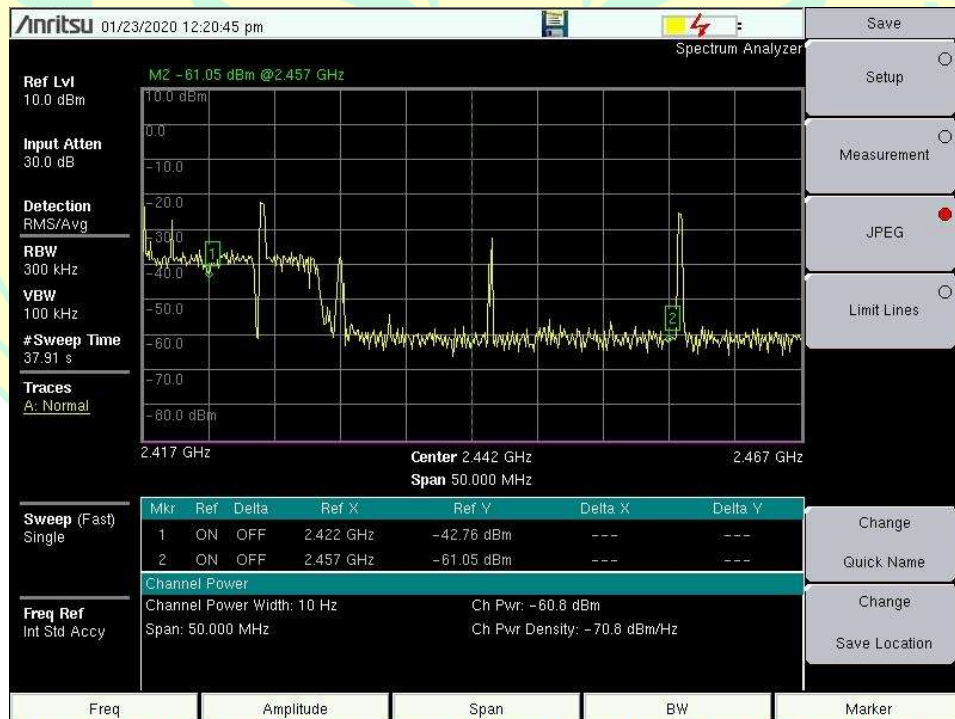
Tampilan 40 MHz Channel 3 Pengganggu Ch 8



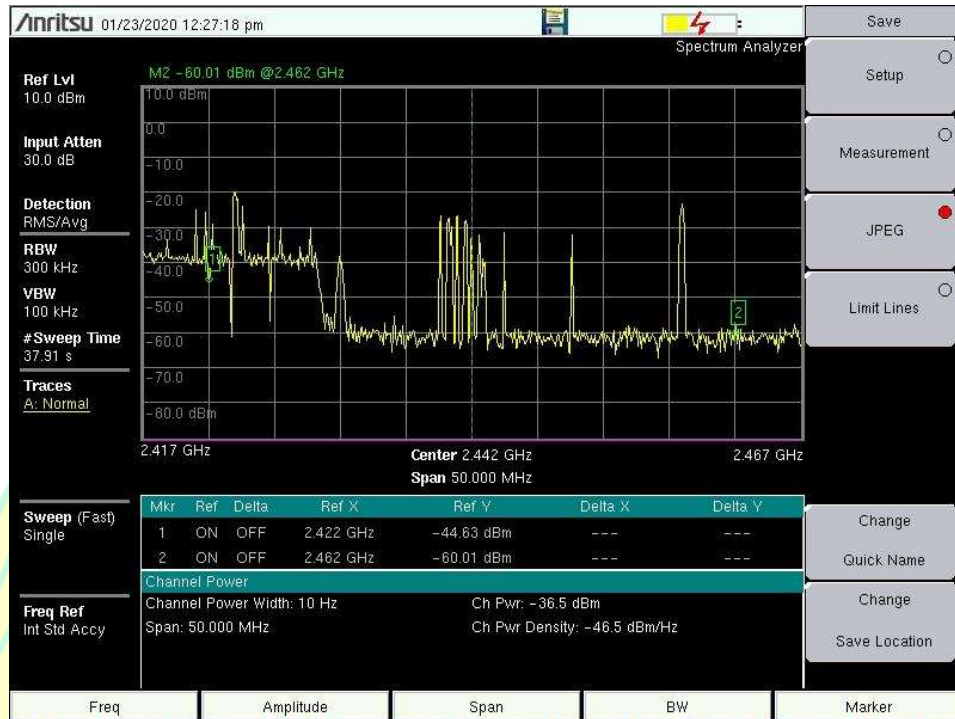
Tampilan 40 MHz Channel 3 Pengganggu Ch 9



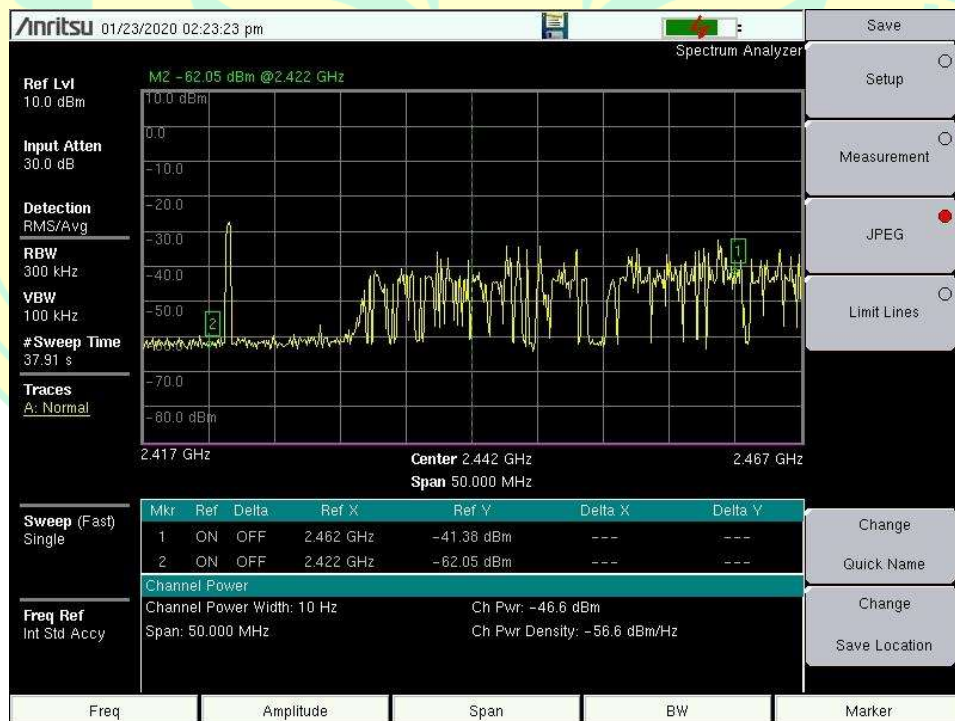
Tampilan 40 MHz Channel 3 Pengganggu Ch 10



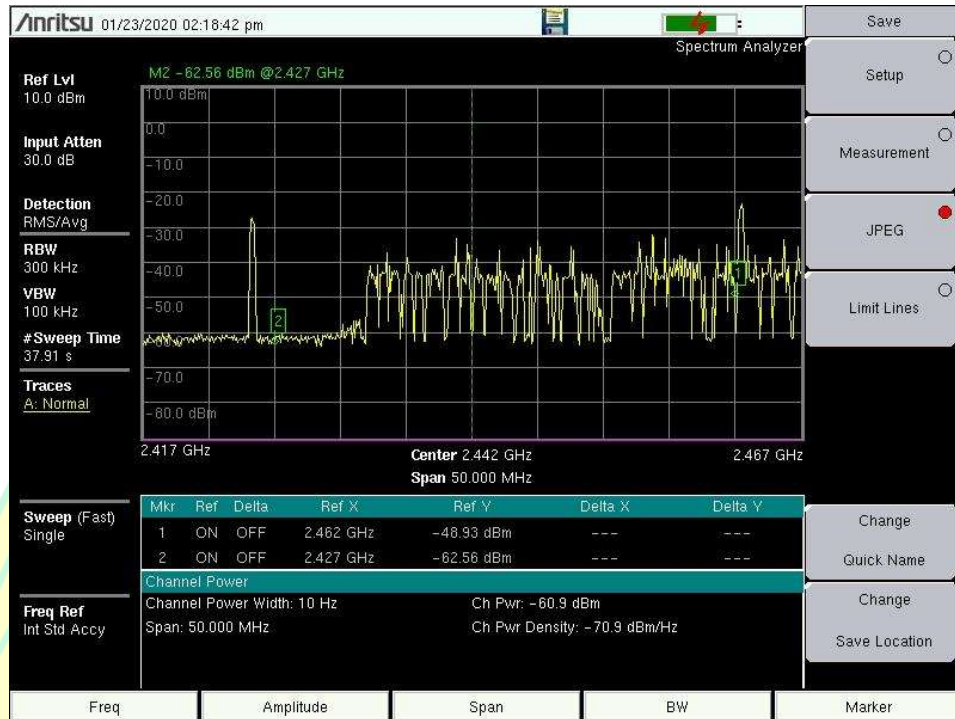
Tampilan 40 MHz Channel 3 Pengganggu Ch 11



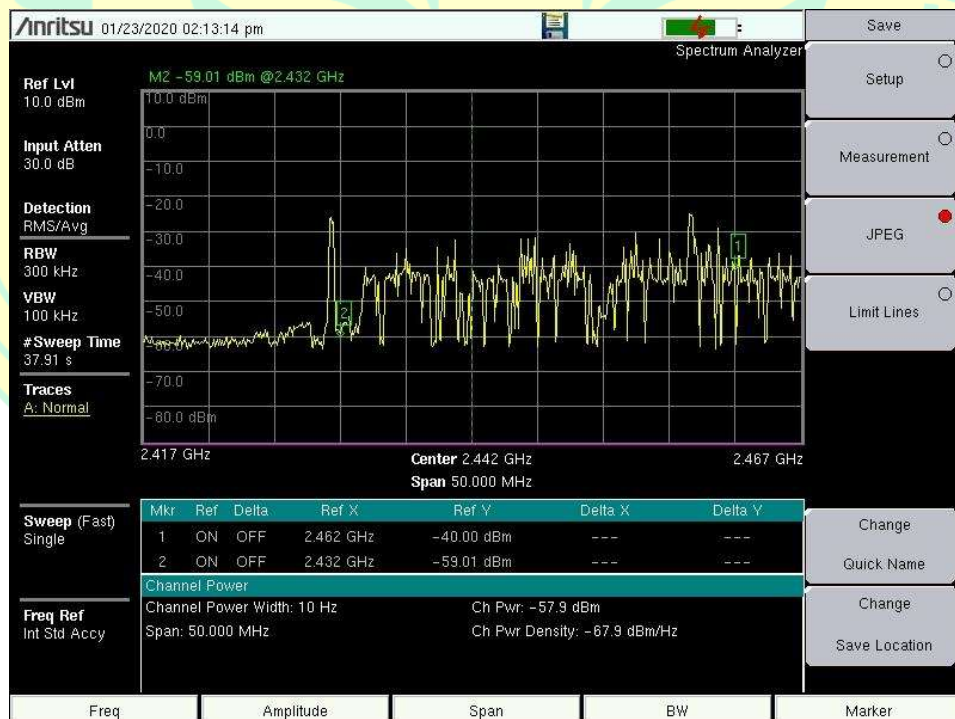
Tampilan 40 MHz Channel 11 Pengganggu Ch 3



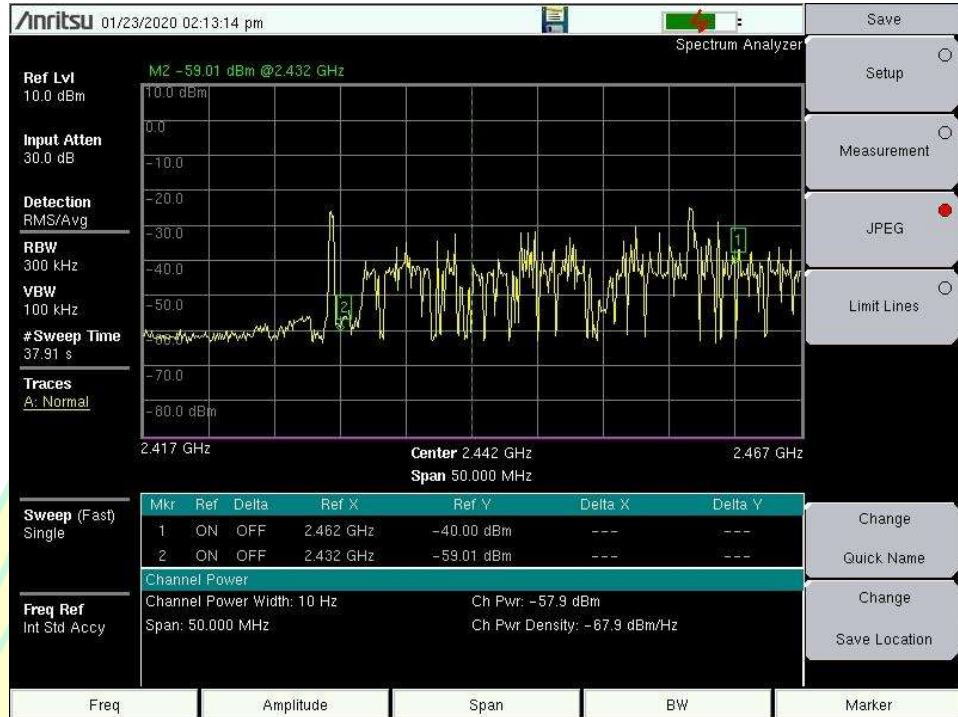
Tampilan 40 MHz Channel 11 Pengganggu Ch 4



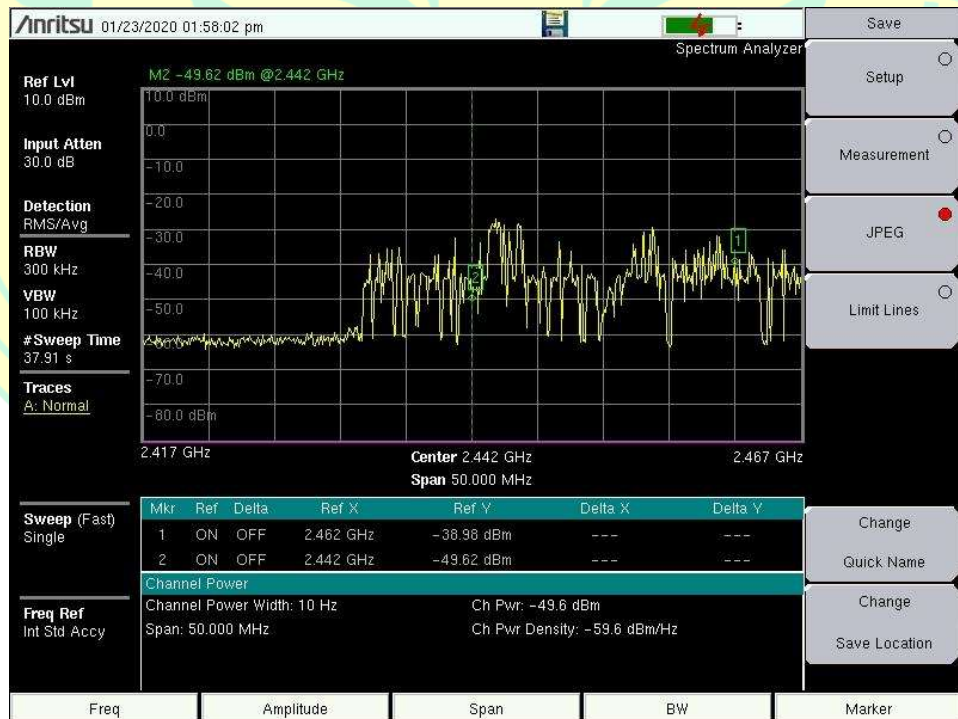
Tampilan 40 MHz Channel 11 Pengganggu Ch 5



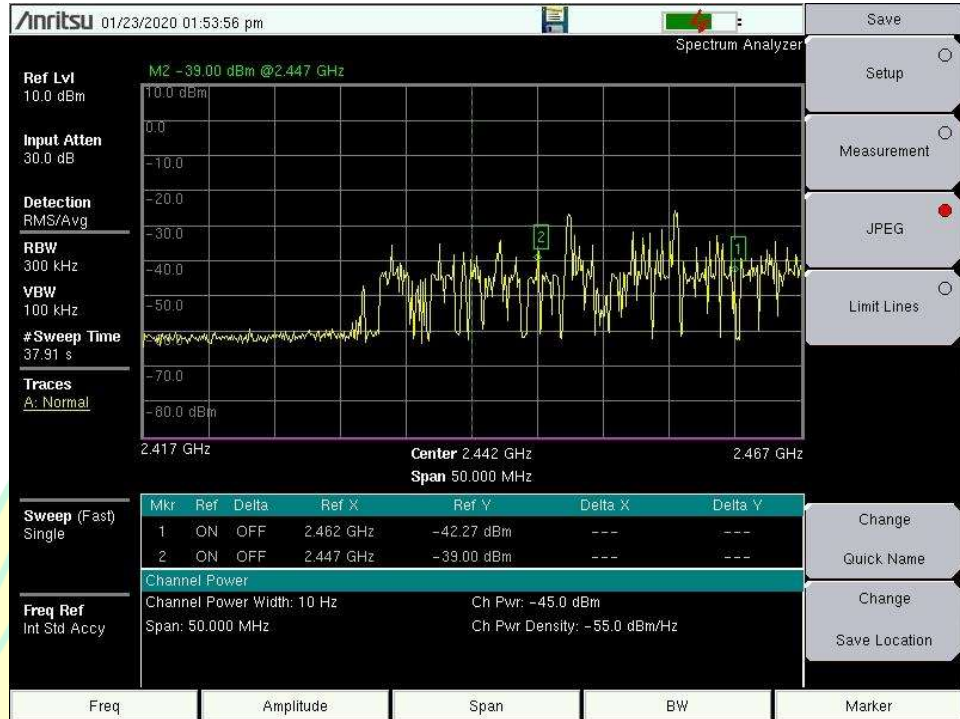
Tampilan 40 MHz Channel 11 Pengganggu Ch 6



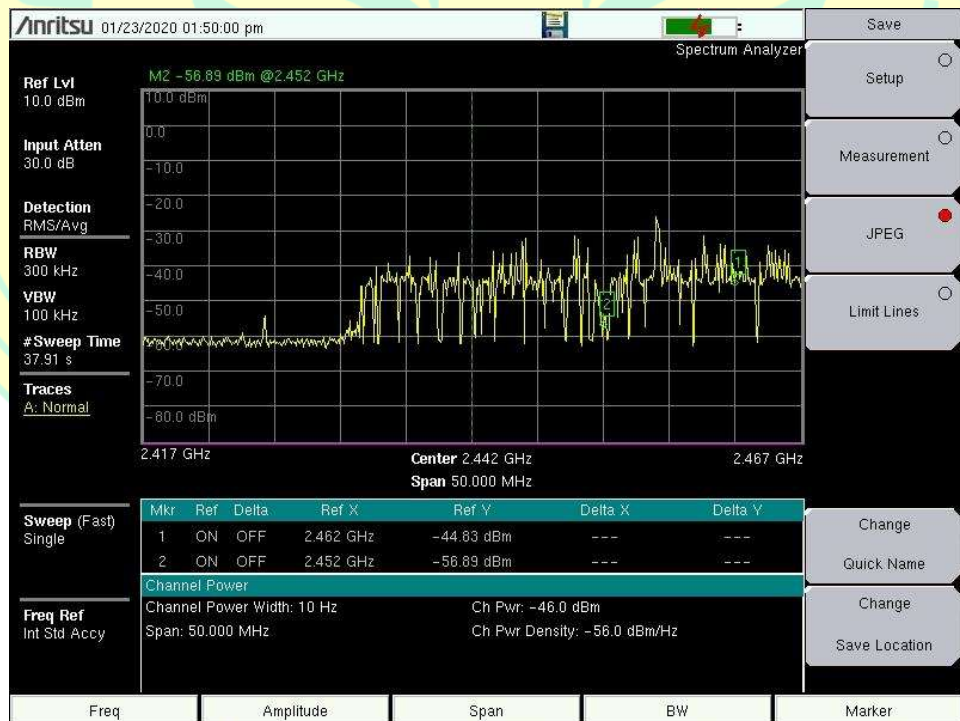
Tampilan 40 MHz Channel 11 Pengganggu Ch 7



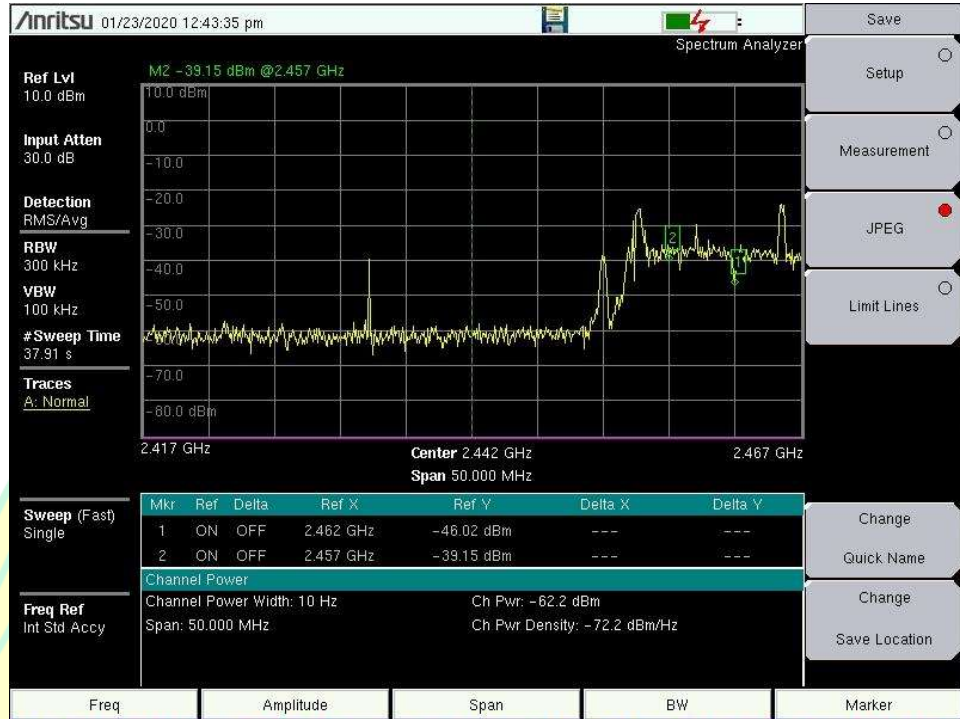
Tampilan 40 MHz Channel 11 Pengganggu Ch 8



Tampilan 40 MHz Channel 11 Pengganggu Ch 9



Tampilan 40 MHz Channel 11 Pengganggu Ch 10



Dokumentasi



Lampiran 3. Data Sheet

Data Sheet TP-LINK AC750



AC750 Wireless Dual Band Router

Upgrade to AC Wi-Fi for Fast Connections



Archer C20



300Mbps + 433Mbps
Dual Band Wi-Fi



Easy Setup



Superior Coverage

Specifications

Hardware

- ▶ Ethernet Ports: 4*10/100Mbps LAN Ports, 1*10/100Mbps WAN Port
- ▶ Buttons: Reset Button, Power On/Off Button, Wi-Fi/WPS Button
- ▶ Antennas: 3 fixed Omni Directional Antennas
- ▶ External Power Supply: 9VDC/0.6A(CE), 9VDC/0.85A(FCC)
- ▶ Dimensions (W x D x H): 9.1 x 5.7 x 1.4 in. (230 x 144 x 35mm)



Wireless

- ▶ Wireless Standards: IEEE 802.11ac/n/a 5GHz, IEEE 802.11b/g/n 2.4GHz
- ▶ Frequency: 2.4GHz and 5GHz
- ▶ Signal Rate:
 - 5GHz: Up to 433Mbps
 - 2.4GHz: Up to 300Mbps
- ▶ Reception Sensitivity:
 - 5GHz:
 - 11a 54M: -76dBm; 11ac VHT20 MCS8: -70dBm
 - 11ac VHT40 MCS9: -65.5dBm; 11ac VHT80 MCS9: -61.5dBm
 - 2.4GHz:
 - 11g 54M: -76dBm; 11n HT20 MCS7: -74dBm
 - 11n HT40 MCS7: -71dBm
- ▶ Wireless Function: Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics
- ▶ Wireless Security: 64/128-bit WEP, WPA / WPA2, WPA-PSK / WPA2-PSK encryption

Specifications

Software

- WAN Type: Dynamic IP, Static IP, PPPoE, PPTP(Dual Access), L2TP(Dual Access), Bigpond
- DHCP: Server, DHCP Client List, Address Reservation
- Quality of Service: WMM, Bandwidth Control
- Port Forwarding: Virtual Server, Port Triggering, UPnP, DMZ
- Dynamic DNS: DynDNS, NO-IP
- Access Control: Parental Control, Local Management Control, Host list, Access Schedule, Rule Management
- Firewall Security: DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter, IP and MAC Address Binding
- Protocols: IPv4, IPv6
- Management: Access Control, Local Management, Remote Management
- Guest Network: 2.4GHz guest network, 5GHz guest network

Others

- Certification: CE, FCC, RoHS, Wi-Fi
- System Requirements: Microsoft Windows 10/8.1/8/7/Vista/XP/2000/NT/98SE, MAC OS, NetWare, UNIX or Linux
Internet Explorer 11, Firefox 12.0, Chrome 20.0, Safari 4.0, or other Java-enabled browser
- Cable or DSL Modem
Subscription with an Internet Service Provider (for internet access)
- Environment: Operating Temperature: 0°C~40°C (32°F~104°F)
Storage Temperature: -40°C~70°C (-40°F~158°F)
Operating Humidity: 10%~90% non-condensing
Storage Humidity: 5%~90% non-condensing
- Package Contents: Wireless Router Archer C20
Power Adapter
RJ-45 Ethernet Cable
Quick Installation Guide



For more information, please visit
<http://www.tp-link.com/en/products/details/Archer-C20.html>
 or scan the QR code left

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 Maximum wireless speed up to 800Mbps in the theoretical data rate derived from IEEE 802.11n specifications. Actual data throughput and wireless coverage will vary due to network conditions and environmental factors including volume of wireless traffic, building materials and construction, network overhead, actual data throughput rate, and wireless coverage.

www.tp-link.com

TP-Link AC750 Wireless Dual Band Router Archer C20

Data Sheet Antena Penerima



kbt@kenbotong.com

中文版 English

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Product Keyword [Advance Search](#)

- New Products
- WLAN,WIFI Antennas
- WIMAX,Wireless Access Antennas
- Base Station Antennas
(GSM,CDMA,3G)
- LTE/4G Antennas
- MIMO Antennas
- Repeater Antennas
- RFID Antennas
- Distributed antenna
- VHF/UHF Antennas
- Mobile Antennas
- Terminal Antennas
- HF Antennas,Ultra Wideband
- Antenna and GPS Antennas
- Other Special Antennas
- Decorative and Disguised Antennas
- Passive Components
- Boosters
- Wifi Products

800-2500MHZ WALL MOUNT ANTENNAS



TDJ-0825BKM-L 800-2500MHz wall mount antenna
 Model:TDJ-0825BKM-L
 Product Type:800-2500MHz Wall Mount Antennas
 Place of origin:China
 Unit Price:\$
 MOQ:
 Brand Name:Kenbotong/KBT

[Order Online](#)

Applications:

- * CDMA800/GSM900/3G/WLAN
- * 800 to 960/1710 to 2500MHz band
- * Indoor coverage system
- * Distributed antenna system (DAS)

Features:

- * Broad band, Cover 800 to 2500MHz common system
- * Light weight, Small size
- * UV stable ABS radome



Electrical Specifications		
Model	TDJ-0825BKM-L	
Frequency Range-MHz	800-960	1710-2500
Vertical Beamwidth-°	55	45
Horizontal Beamwidth-°	70	60
Gain-dBi	7	10
VSWR	≤1.5	
Impedance-Ω	50	
Polarization	Vertical	
Maximum Power-W	50	
Connector	N Female or customized	
Dimensions-mm	210×180×44	
Weight-kg	0.4	
Color	white	

www.kenbotong.com/wireless-antenna/Distributed-antennas/800-2500MHz-Wall-Mount-Antennas/TDJ-0825BKM-L.html

1/2

Data Sheet Spectrum Analyzer

Product Brochure

Anritsu

Site Master™

Compact Handheld Cable & Antenna Analyzer
with Spectrum Analyzer

S331E

2 MHz to 4 GHz

S332E

2 MHz to 4 GHz
100 kHz to 4 GHz

S361E

2 MHz to 6 GHz

S362E

2 MHz to 6 GHz
100 kHz to 6 GHzCable & Antenna Analyzer
Spectrum Analyzer

SITE MASTER IS THE PREFERRED CABLE AND ANTENNA ANALYZER OF WIRELESS SERVICE PROVIDERS, CONTRACTORS AND INSTALLERS

INTEGRATED MEASUREMENT CAPABILITIES



CONFIGURATION OVERVIEW

FUNCTION	DESCRIPTION
Cable and Antenna Analyzer, 2 MHz to 4/6 GHz	Characterizes cable and antenna systems with return loss, cable loss, VSWR, distance-to-fault measurements. Also includes 1-port phase and Smith chart displays. Offers faster than 1 ms/data point sweep speed and a dual display.
Spectrum Analyzer, 100 kHz to 4/6 GHz	Locates and identifies various signals over a wide frequency range. Detect signals as low as -152 dBm with phase noise better than -100 dBc/Hz.
2-port Transmission Measurement (Option 21)	Provides high and low power settings for both TMA gain and antenna-antenna isolation measurements. Offers better than 80 dB dynamic range.
Bias Tee (Option 10)	Provides built-in 32 V bias tee that can be turned on as needed, and which eliminates the need to carry an external supply.
High Accuracy Power Meter (Option 19)	Connects high accuracy 6-, 8-, and 18 GHz USB power sensors with better than 0.16 dB accuracy.
Power Meter (Option 29)	Makes channelized transmitter power measurements.
Interference Analyzer (Option 25)	Includes the popular spectrogram display for monitoring intermittent signals over time.
Channel Scanner (Option 27)	Measures the power of multiple transmitted signals.
CW Signal Generator (Option 28)	Includes CW source to test low noise amplifiers, repeaters. (This requires an external CW generator kit.)
GPS Receiver (Option 31)	Provides location and UTC time information. Also improves the accuracy of the reference oscillator.
Gated Sweep (Option 90)	Views pulsed or burst signals such as WIMAX, GSM, and TD-SCDMA only when they are on.

DESIGNED FOR THE FIELD



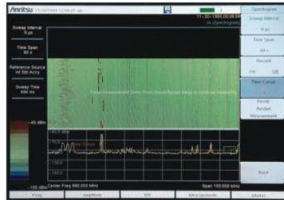
ALL CONNECTORS ARE CONVENIENTLY LOCATED ON THE TOP PANEL, LEAVING THE ORDER CLEAR FOR HANDHELD USE.



MASTER THE LOCATION OF INTERFERENCE

As the wireless industry continues to expand, more diverse uses for the radio spectrum emerge and the number of signals that may potentially cause interference is constantly increasing.

Compounding the problem are the many sources that can generate interference including intentional radiators, un-intentional radiators, and self interference. Interference causes Carrier-to-Interference degradation robbing the network of capacity. The goal of these measurements is to resolve interference issues as quickly as possible.



Spectrogram Display

INTERFERENCE ANALYSIS (OPTION 25)

The interference analyzer option provides you with a spectrogram display, RSSI, signal strength meter, and signal ID. Site Master's integrated spectrum analyzer can detect signals as low as -152 dBm.

SPECTROGRAM DISPLAY

This option provides you with a three-dimensional display of frequency, power, and time of the spectrum activity to identify intermittent interference and track signal levels over time. The Site Master allows you to save a history up to 72 hours.



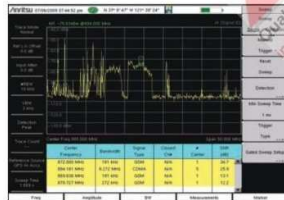
Signal Strength Meter

RECEIVED SINGLE STRENGTH INDICATOR (RSSI)

You can use the Site Master's RSSI measurement to observe the signal strength of a single frequency over time, and collect data for up to 72 hours.

SIGNAL STRENGTH METER

The Site Master's signal strength meter can locate an interfering signal by using a directional antenna and measuring the signal strength. It displays power in Watts, dBm, in the graphical analog meter display, and by an audible beep proportional to its strength.



Signal ID

SIGNAL ID

Site Master's signal ID feature in the interference analyzer can help you quickly identify the type of the interfering signal. You can configure this measurement to identify all signals in the selected band or to simply monitor one single interfering frequency. The Site Master then displays results that include center frequency, signal bandwidth, and signal type (FM, GSM/GPRS/EDGE, W-CDMA/HSDPA, CDMA/EV-DO, Wi-Fi).

AM/FM/SSB DEMODULATION

A built-in demodulator for AM, narrowband FM, wideband FM and single sideband allows you to easily identify the interfering signal.

SPECTRUM ANALYZER HIGHLIGHTS

- Measurements: Occupied bandwidth, channel power, ACPR, C/I, AM/FM demod, field strength
- Interference analyzer: spectrogram, signal strength, RSSI, signal ID
- Dynamic range: > 95 dB
- DANL: -162 dBm typical (normalized to 1 Hz)
- Phase noise: -100 dBc/Hz @ 10 kHz offset
- Frequency accuracy: < +/- 50 ppb with GPS on
- Advanced marker functions: noise marker, frequency counter, fixed, tracking
- Advanced limit line functions: one-button envelope creation
- Detection methods: peak, RMS, negative, sample, quasi-peak
- Save-on-event: automatically saves a sweep when crossing a limit line
- Gated sweep: view pulsed or burst signals only when they are on, or off