

AC Coupled Diode Discovery Conducted Emissions

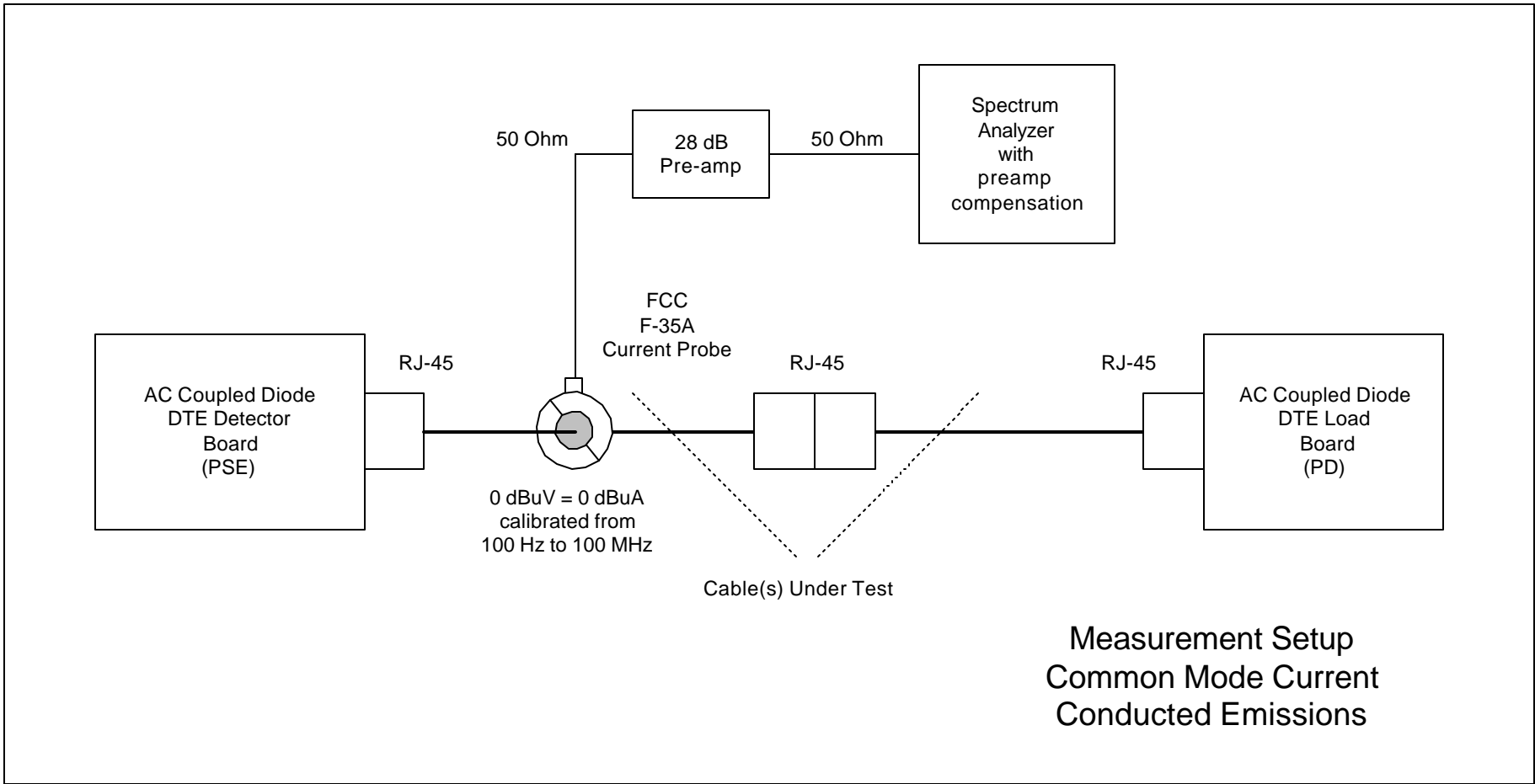
IEEE802.3af Plenary Meeting
November 2000

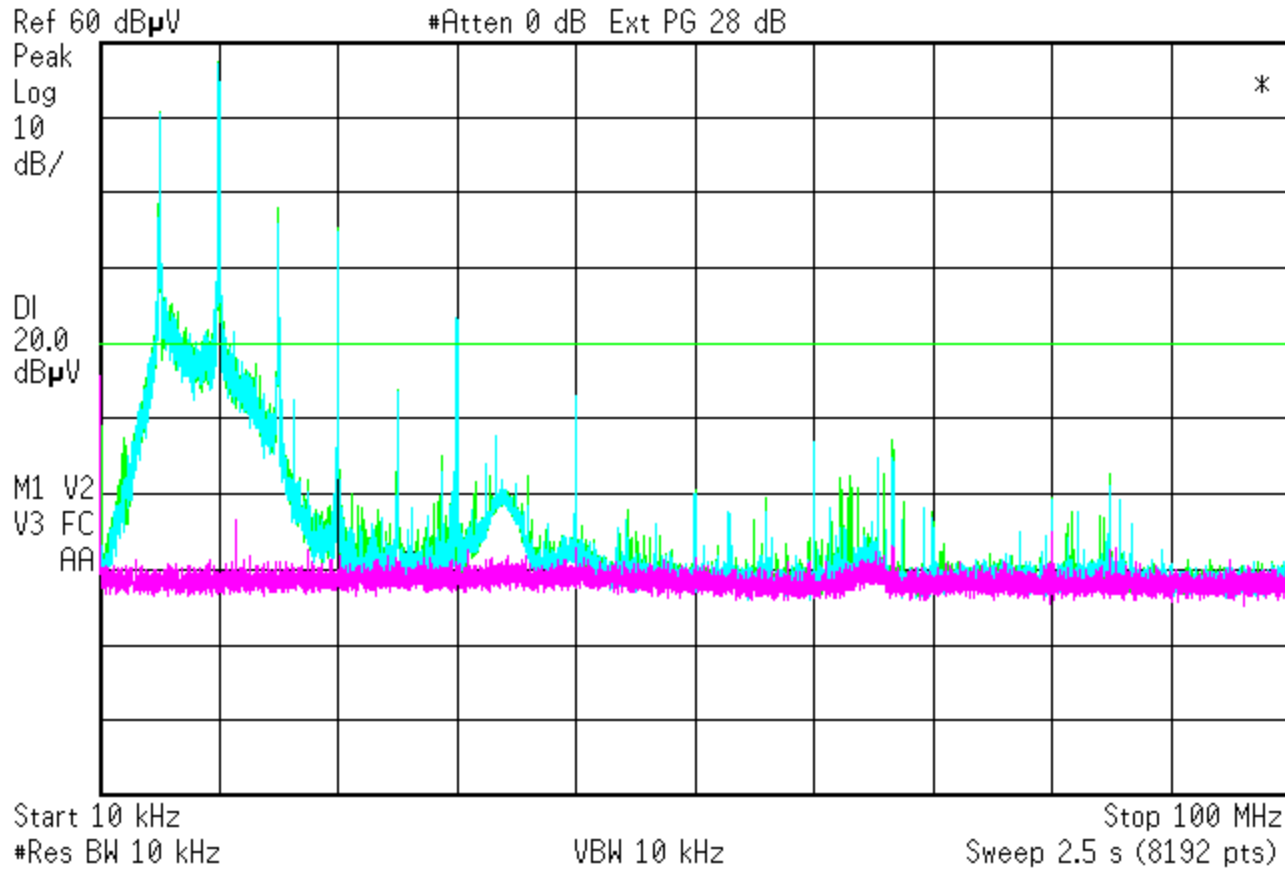
Rick Brooks, ribrooks@nortelnetworks.com

Acknowledgments:
Dave Hess, Berktek for supplying the CAT-6 cable

10Base-T Traffic, with and without discovery:

1	meter CAT-5
12	meter CAT-5
105	meter CAT-5





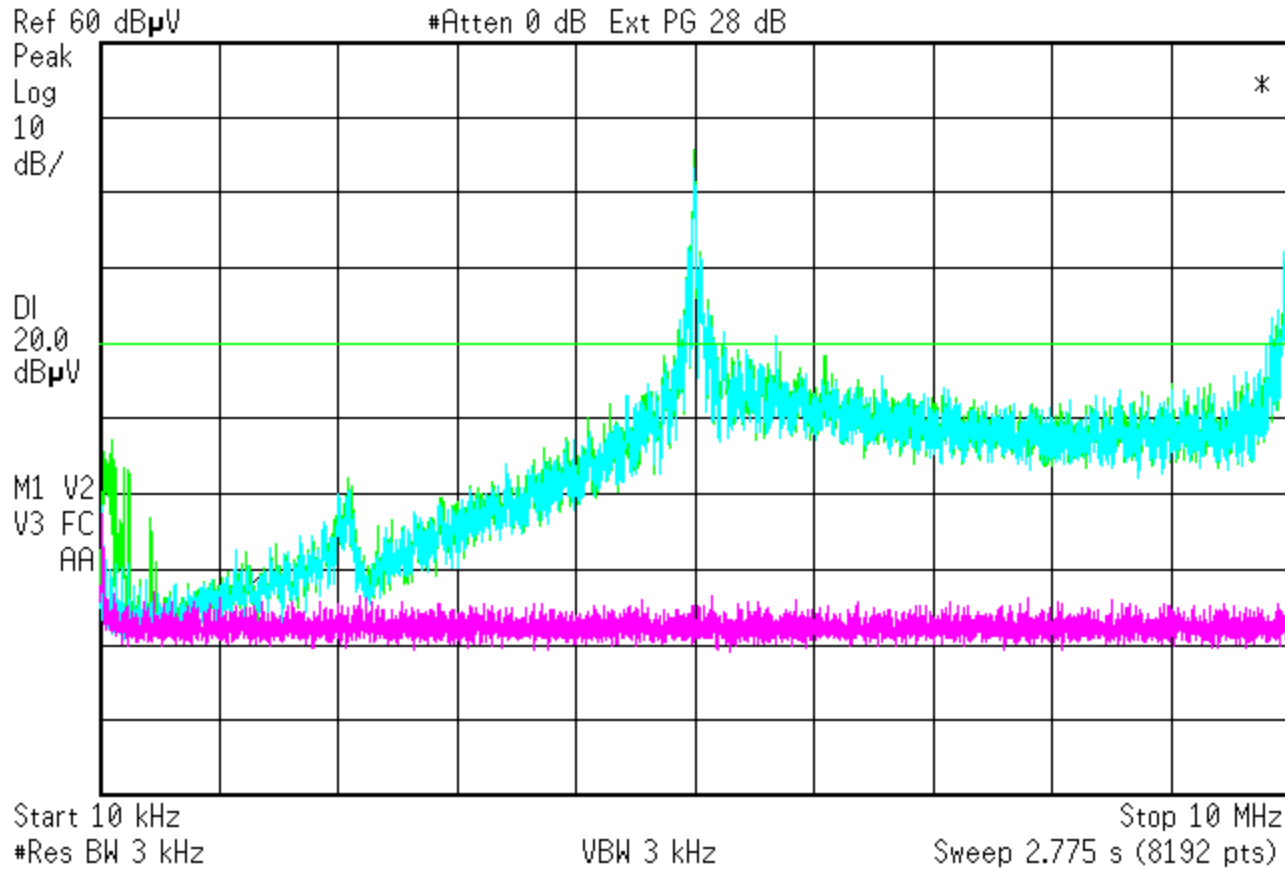
1.2 meter CAT-5, 10 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- 10Base-T only light blue
- 10Base-T and discovery on/off light green
- Baseline magenta
- Display Line, 20 dBuV light green

Common Mode Current

1.2 meter CAT-5, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



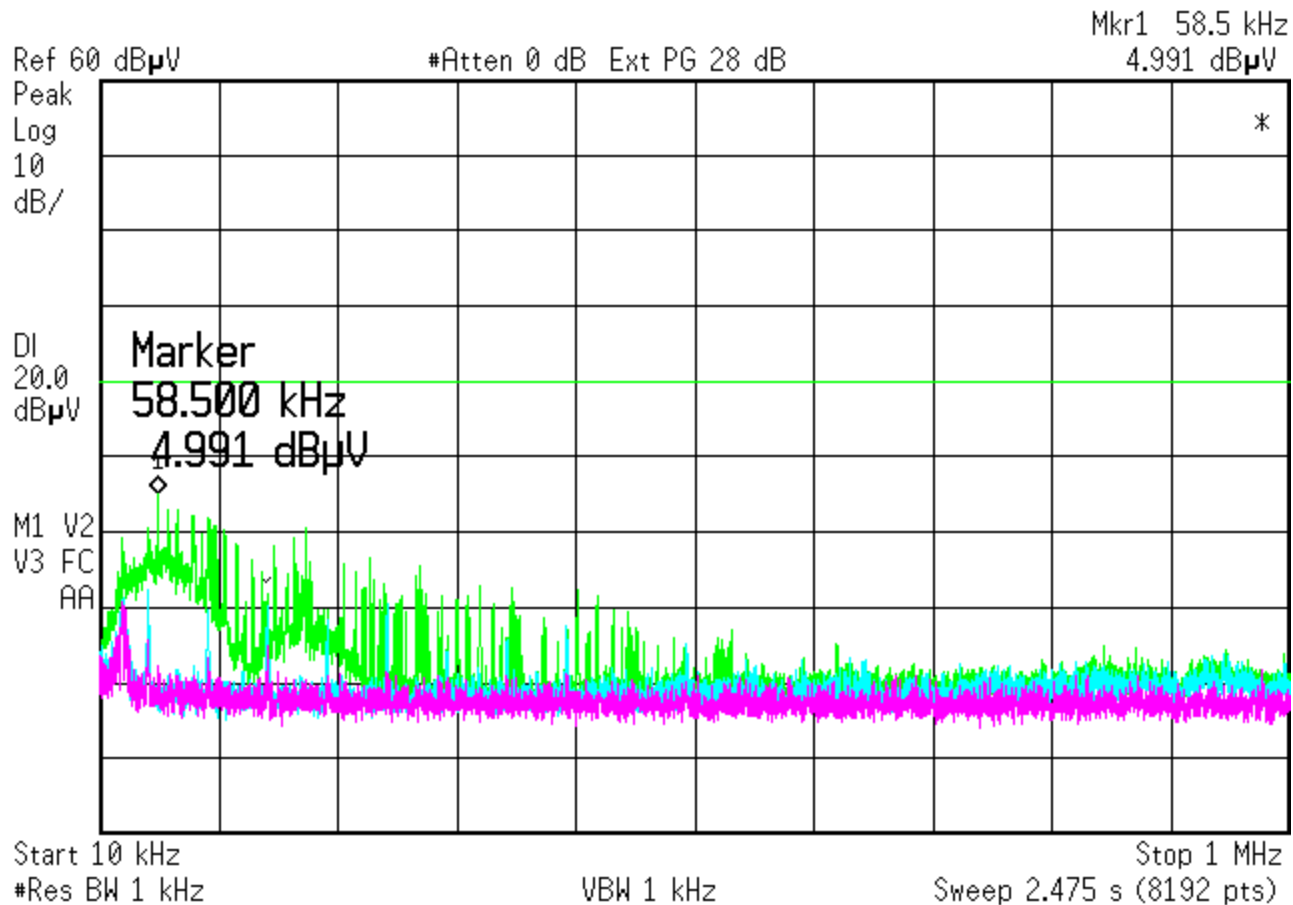
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- | | |
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Common Mode Current

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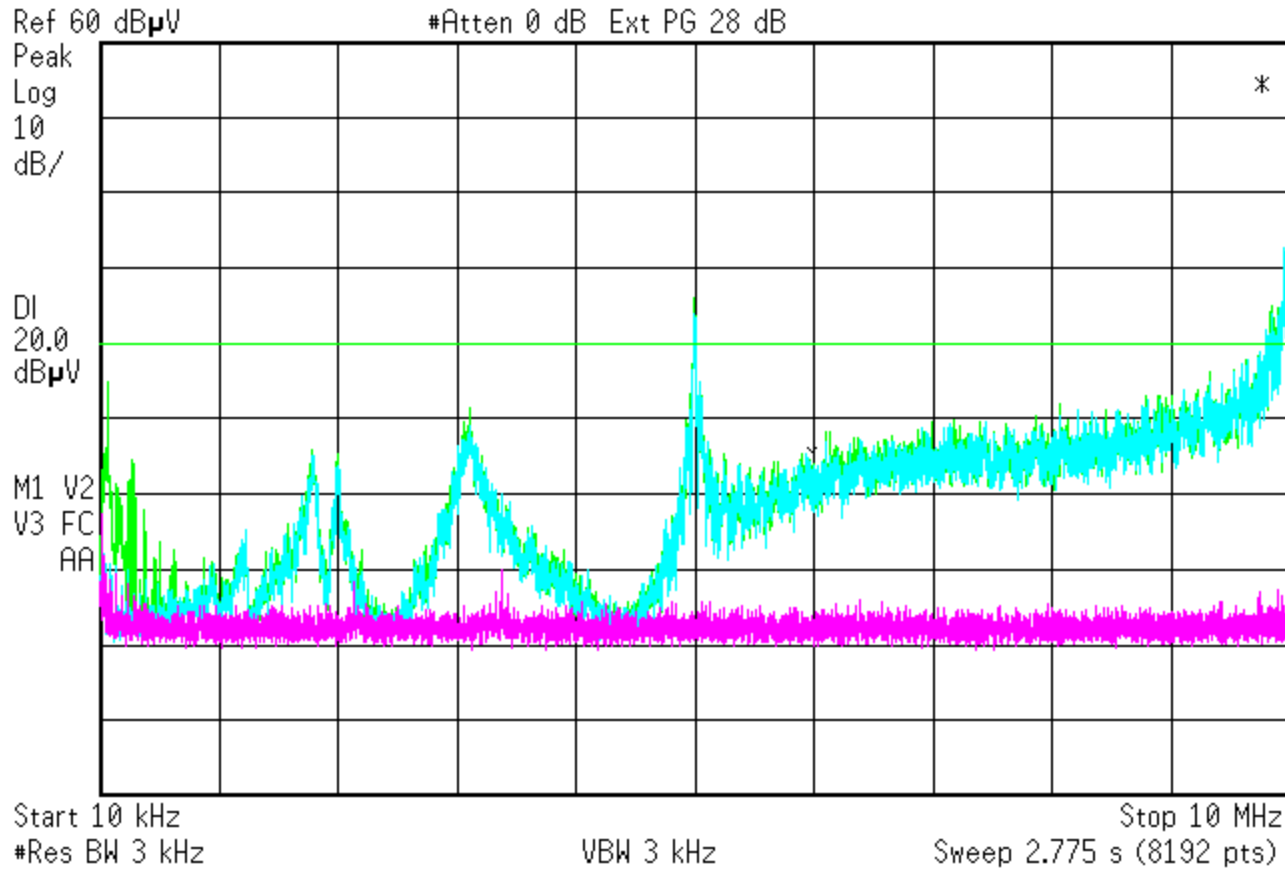
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Common Mode Current

1.2 meter CAT-5, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



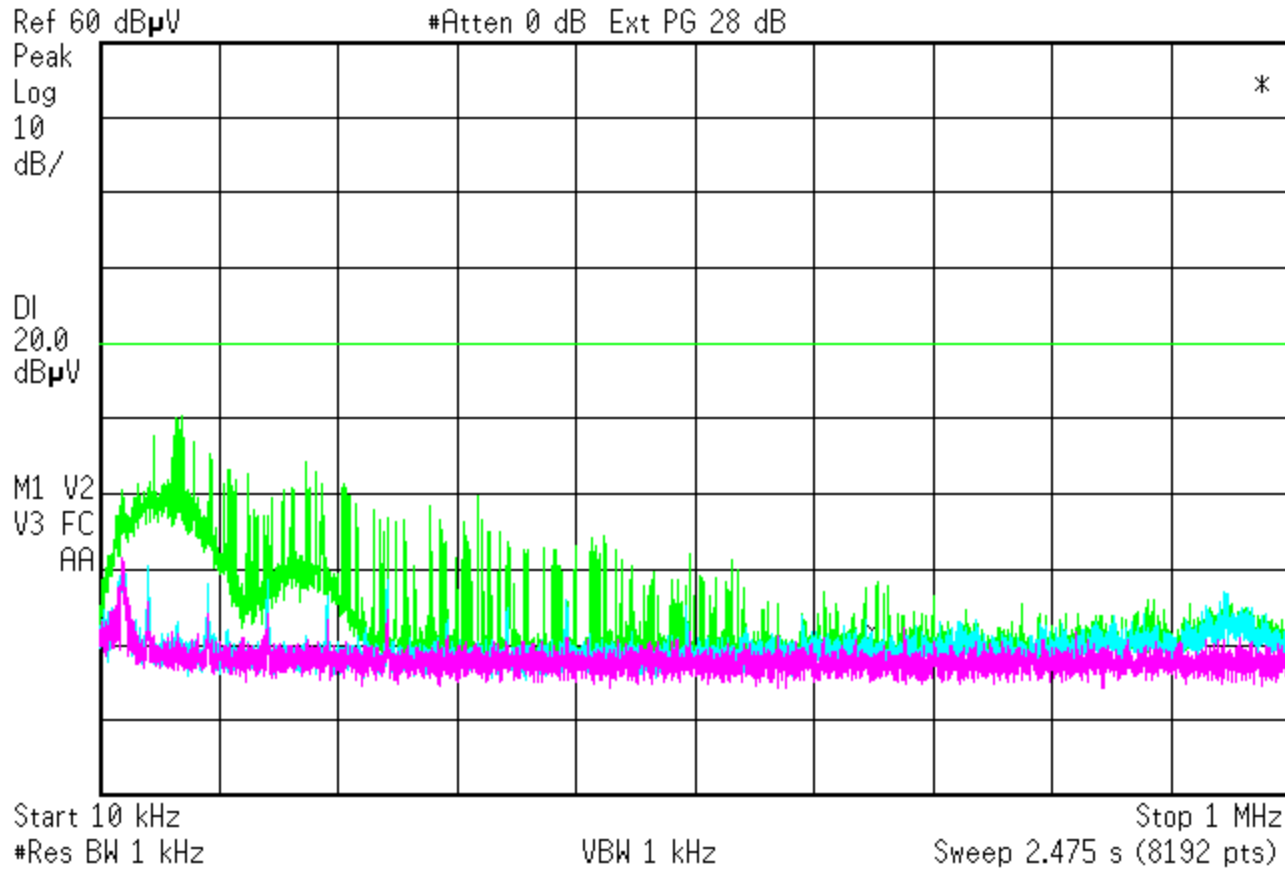
12 meter CAT-5, 10 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- | | |
|-------------------------------|-------------|
| 10Base-T only | light blue |
| 10Base-T and discovery on/off | light green |
| Baseline | magenta |
| Display Line, 20 dBuV | light green |

Common Mode Current

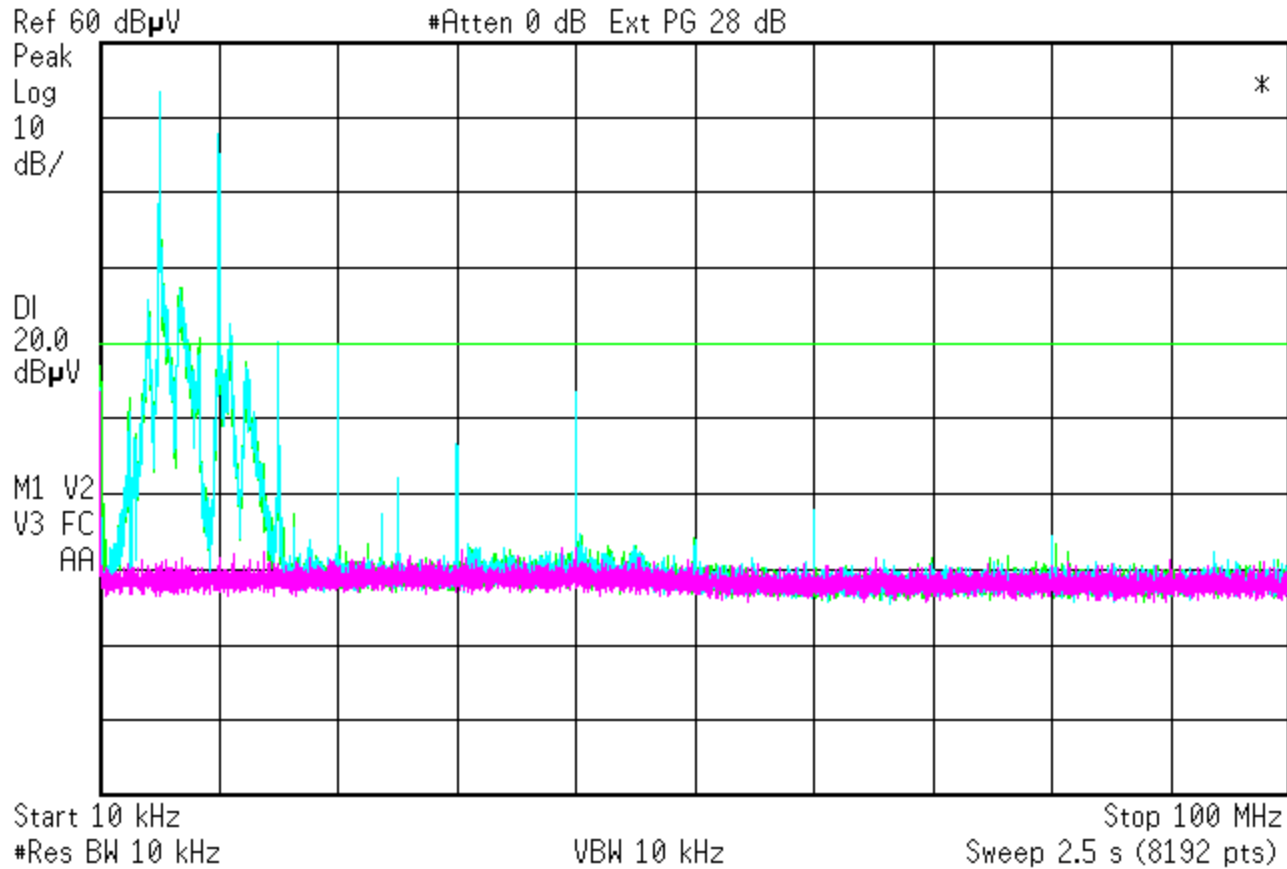
12 meter CAT-5, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
Baseline	magenta
Display Line, 20 dBuV	light green

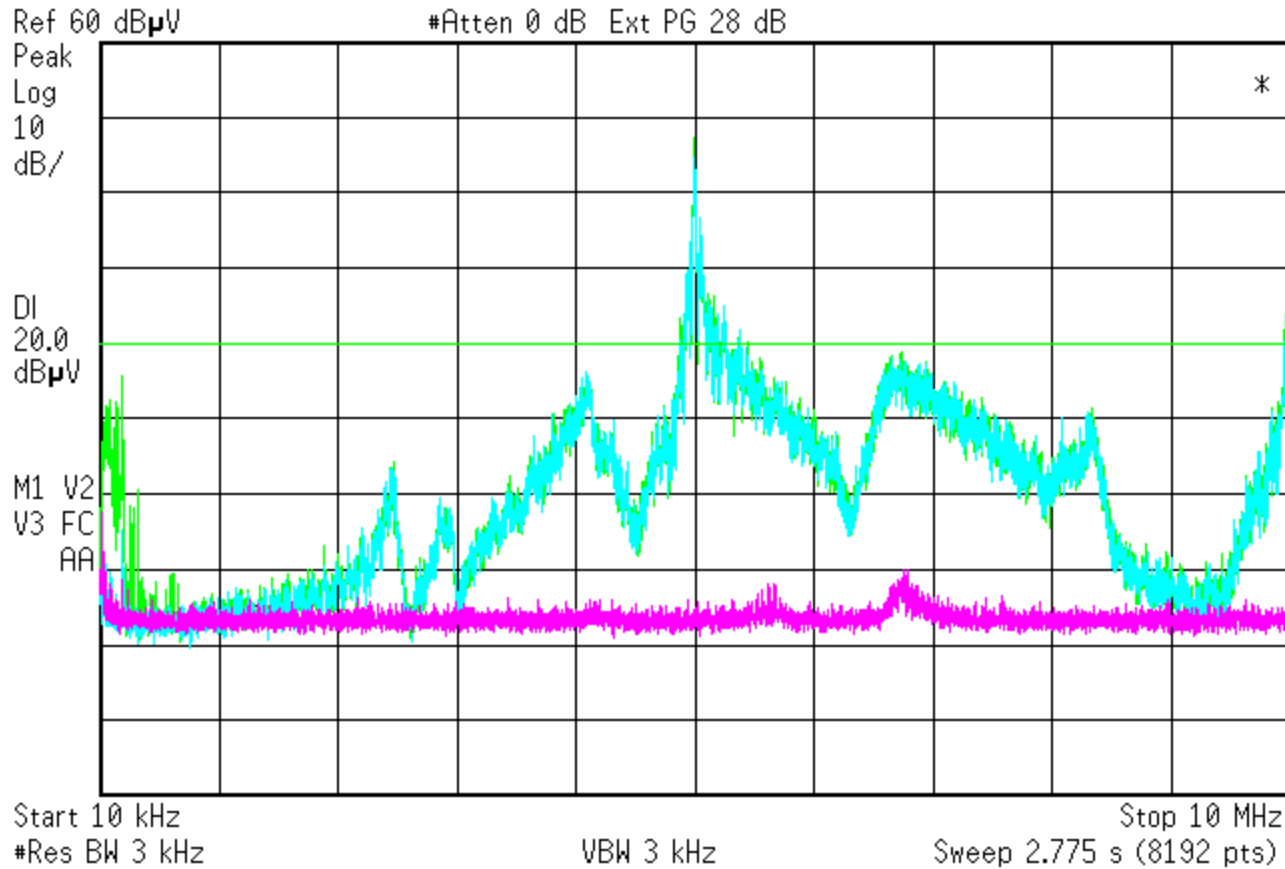
Common Mode Current
12 meter CAT-5, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



105 meter CAT-5, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current
105 meter CAT-5, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



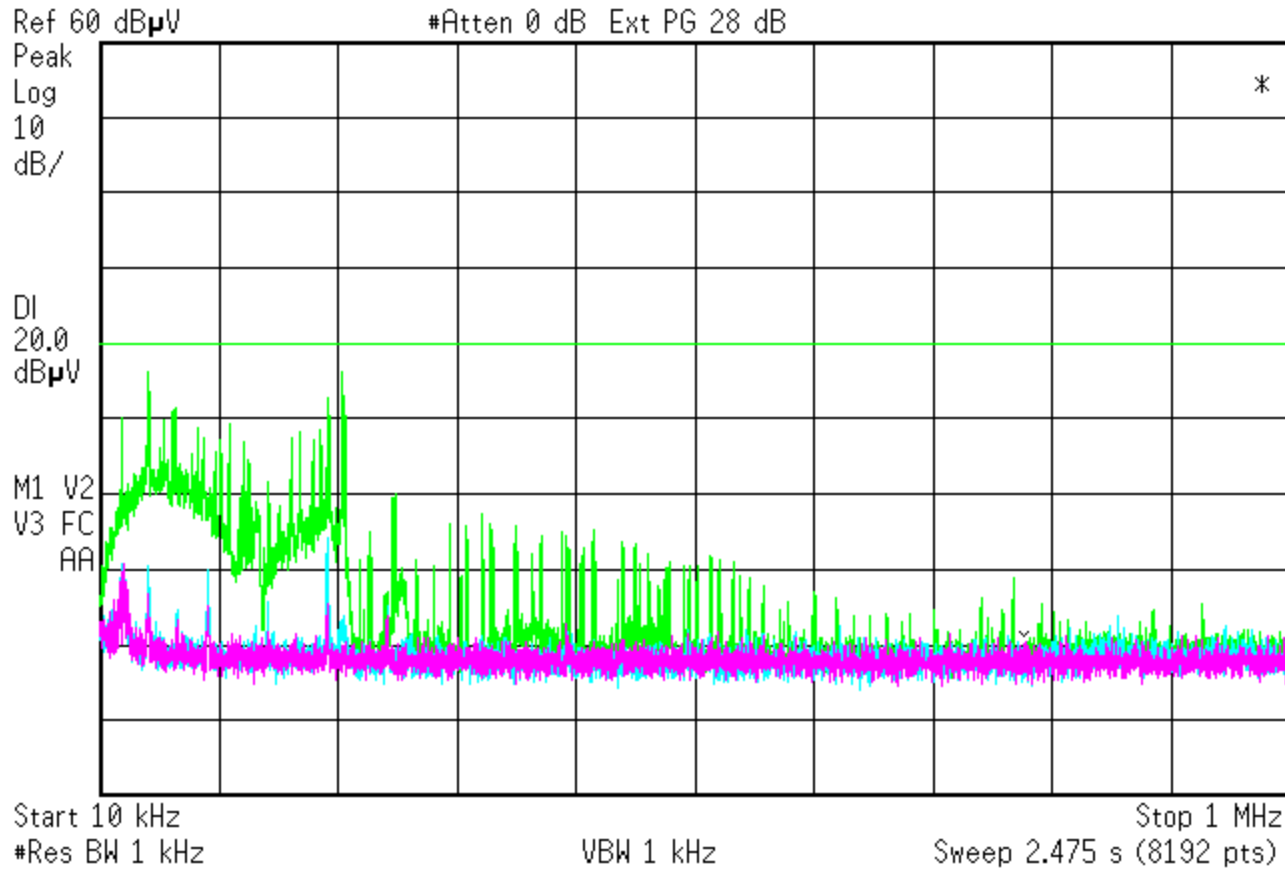
105 meter CAT-5, 10 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- | | |
|-------------------------------|-------------|
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| 10Base-T and discovery on/off | light green |
| Baseline | magenta |
| Display Line, 20 dBuV | light green |

Common Mode Current

105 meter CAT-5, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



105 meter CAT-5, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

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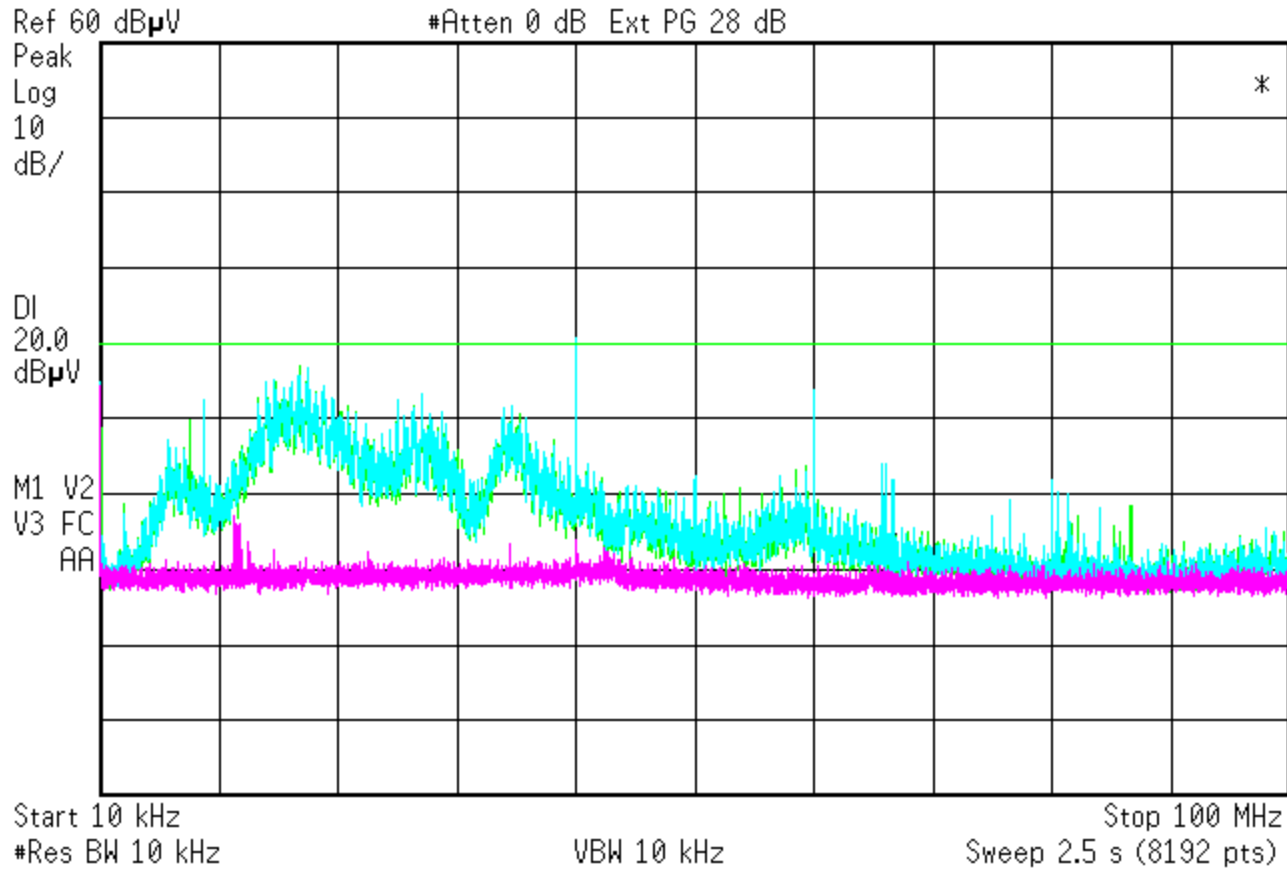
Common Mode Current

105 meter CAT-5, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

CAT-5 Cable Tests (cont.)

100Base-T Traffic,
with and without discovery:

- 1.2 meter CAT-5
- 12 meter CAT-5
- 102 meter CAT-5



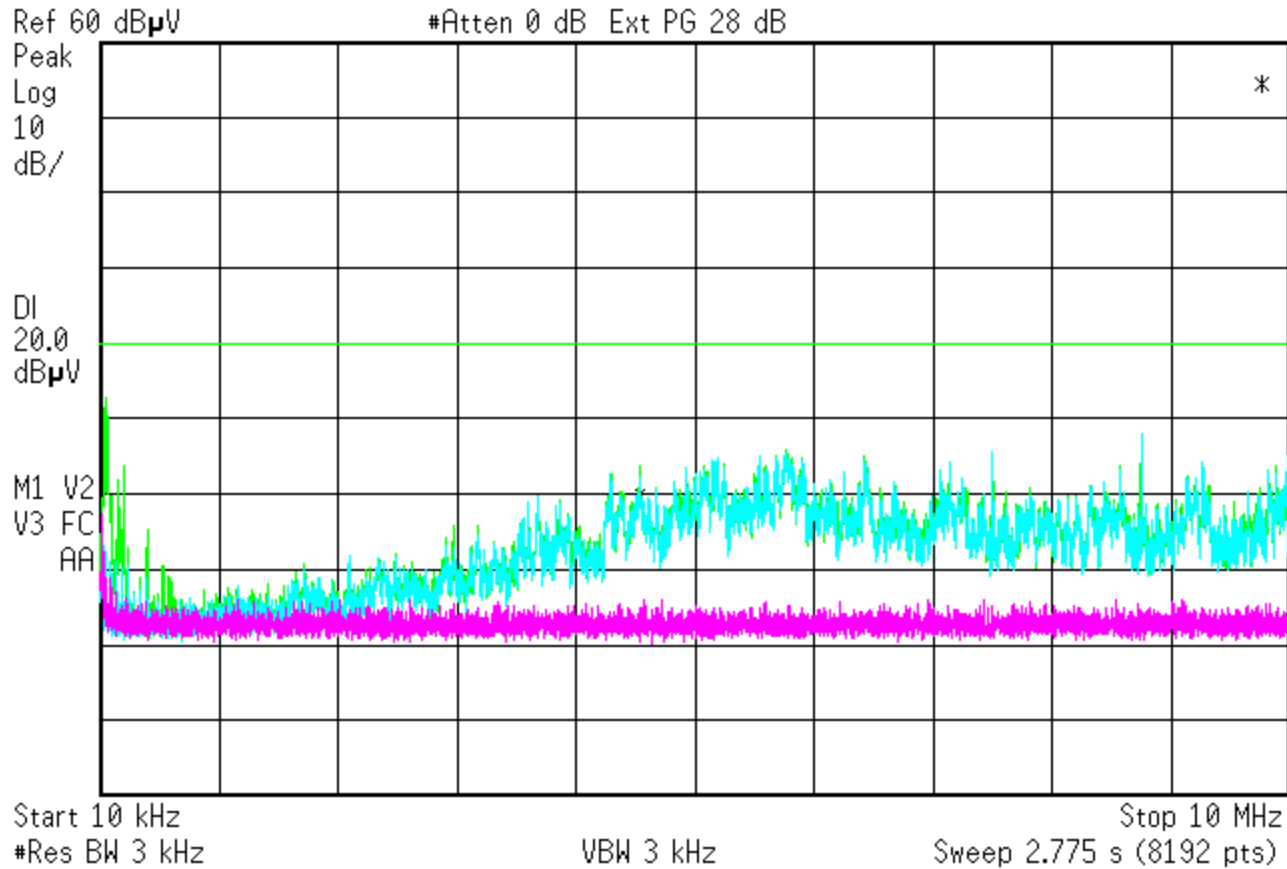
1.2 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- | | |
|--------------------------------|-------------|
| 100Base-T only | light blue |
| 100Base-T and discovery on/off | light green |
| Baseline | magenta |
| Display Line, 20 dBuV | light green |

Common Mode Current

1.2 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



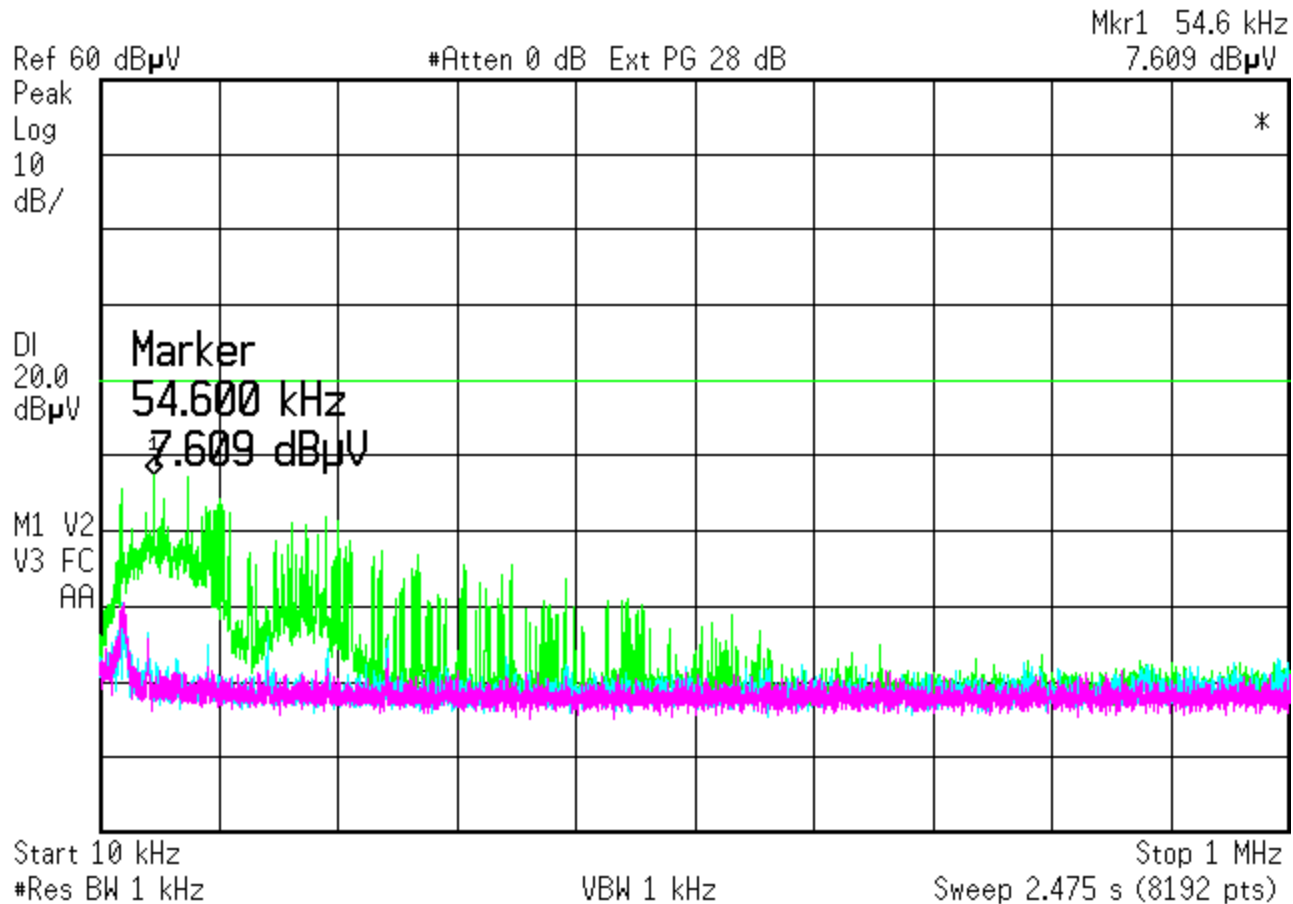
1.2 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

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Common Mode Current

1.2 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



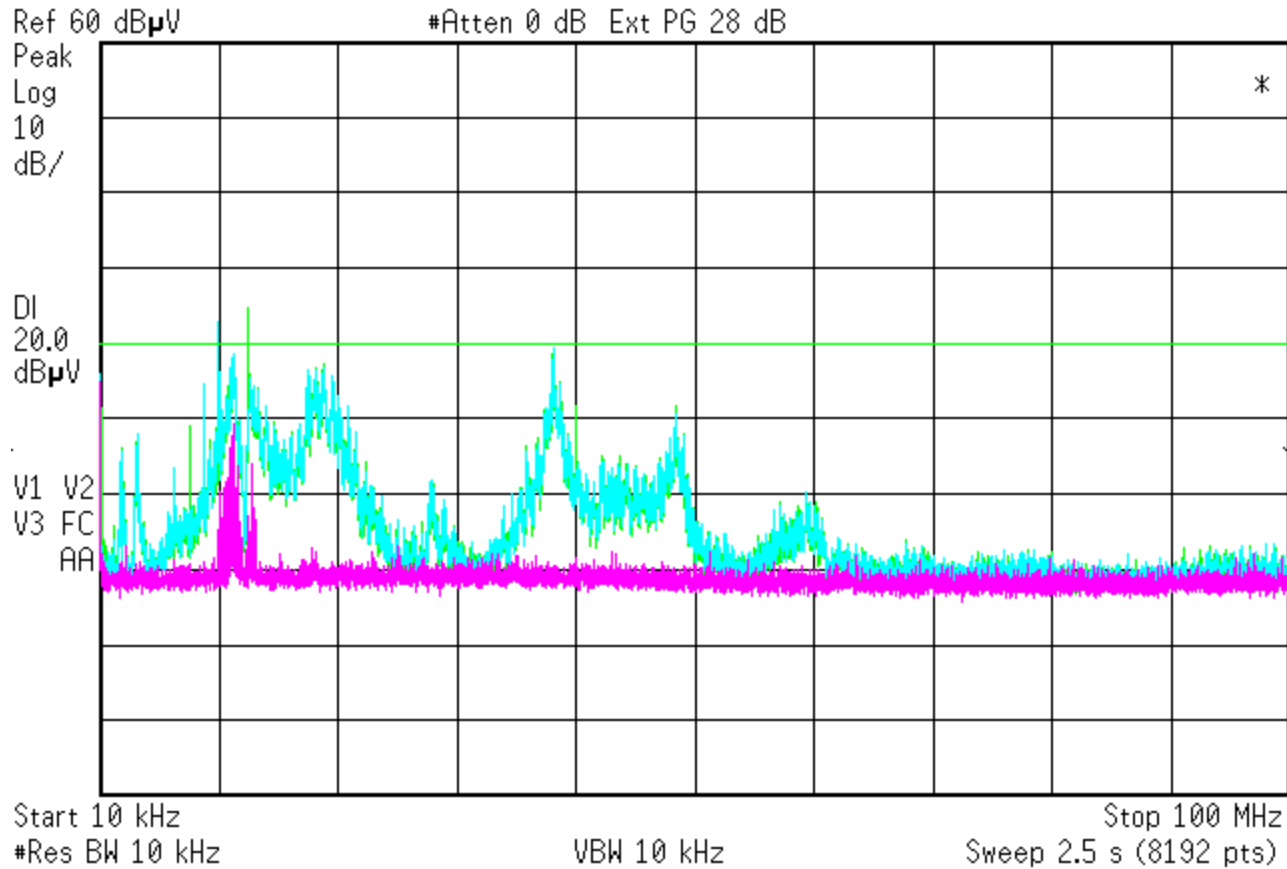
1.2 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

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1.2 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



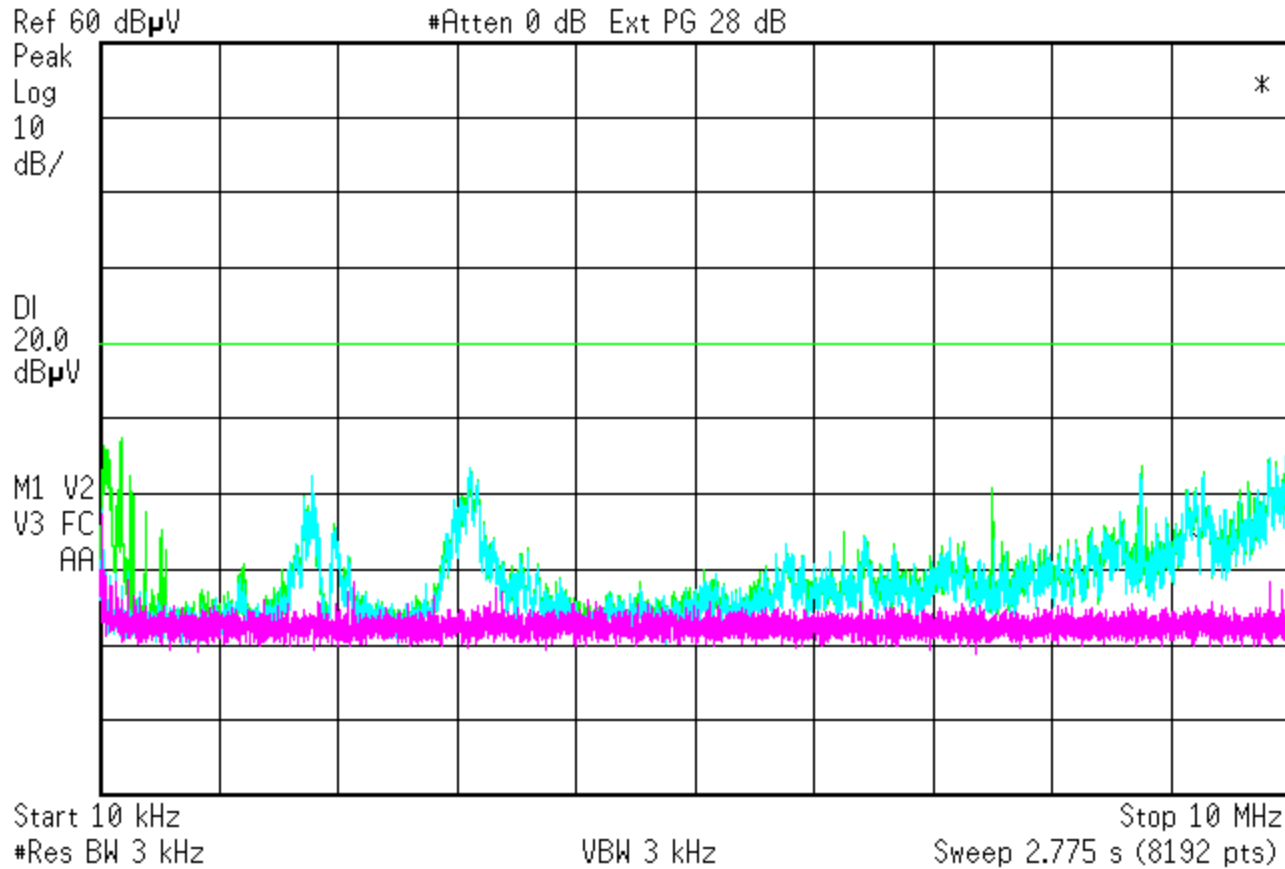
12 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each Trace taken with Max Hold, 5-10 minutes of acquisition)

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| 100Base-T only | light blue |
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| Baseline | magenta |
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Common Mode Current

12 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



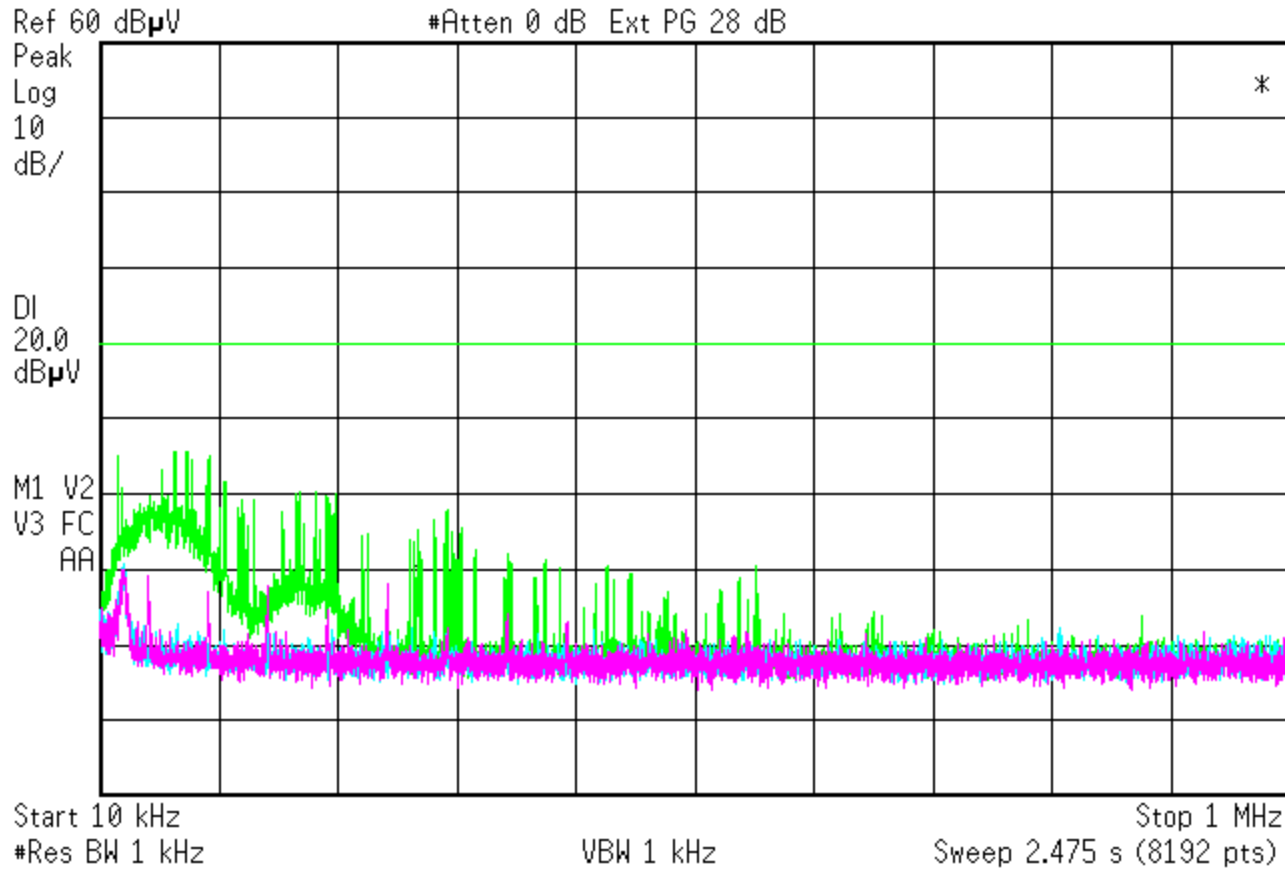
12 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

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Common Mode Current

12 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



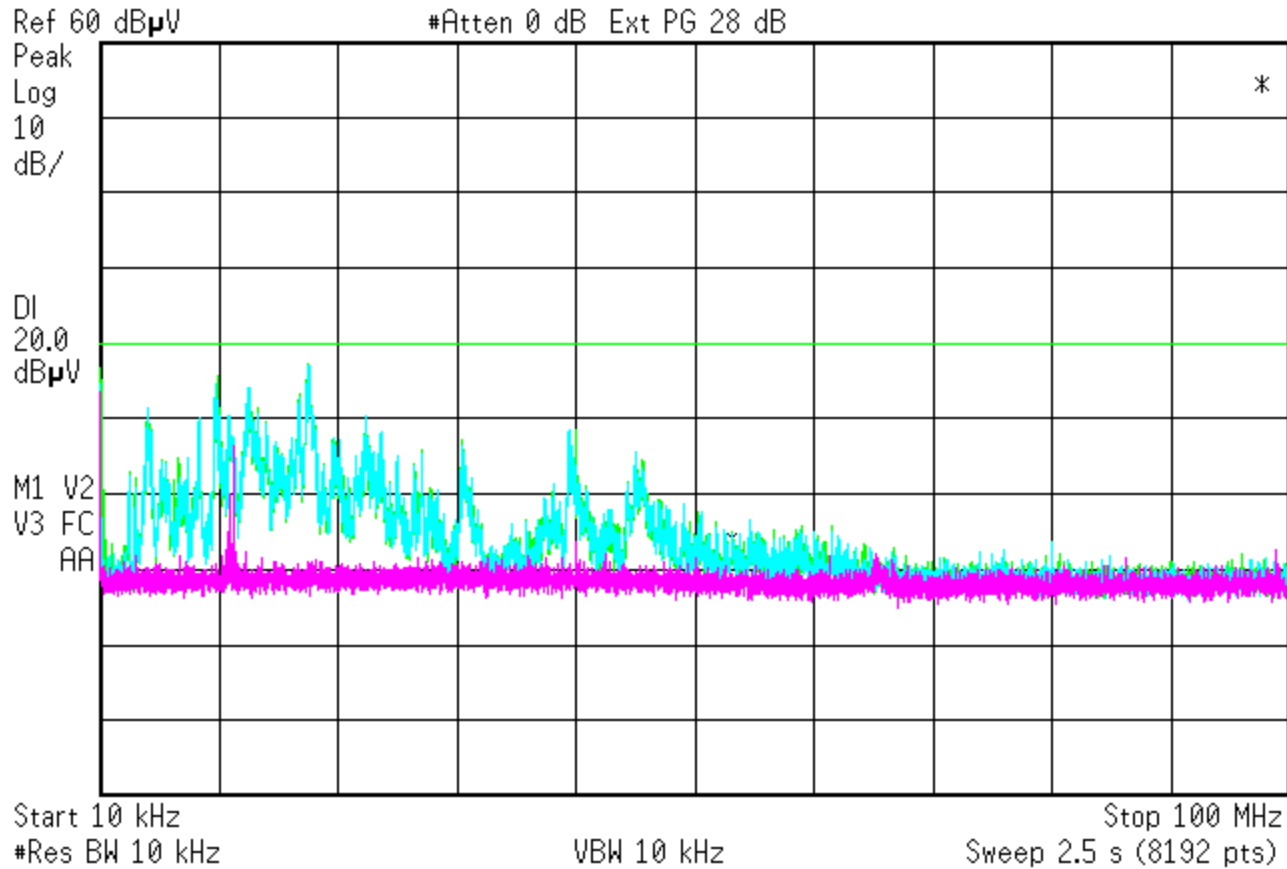
12 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- | | |
|--------------------------------|-------------|
| 100Base-T only | light blue |
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Common Mode Current

12 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



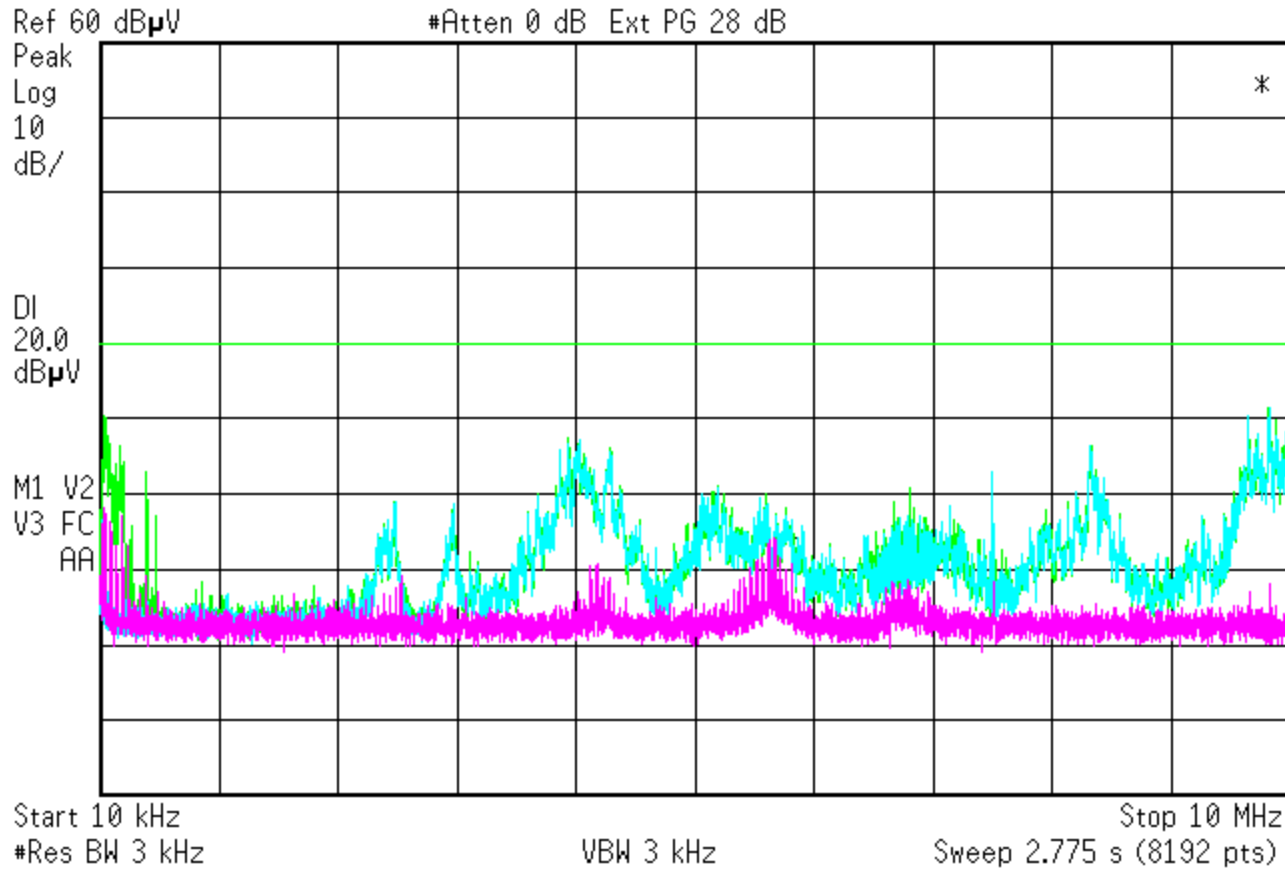
105 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- | | |
|--------------------------------|-------------|
| 100Base-T only | light blue |
| 100Base-T and discovery on/off | light green |
| Baseline | magenta |
| Display Line, 20 dBuV | light green |

Common Mode Current

105 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



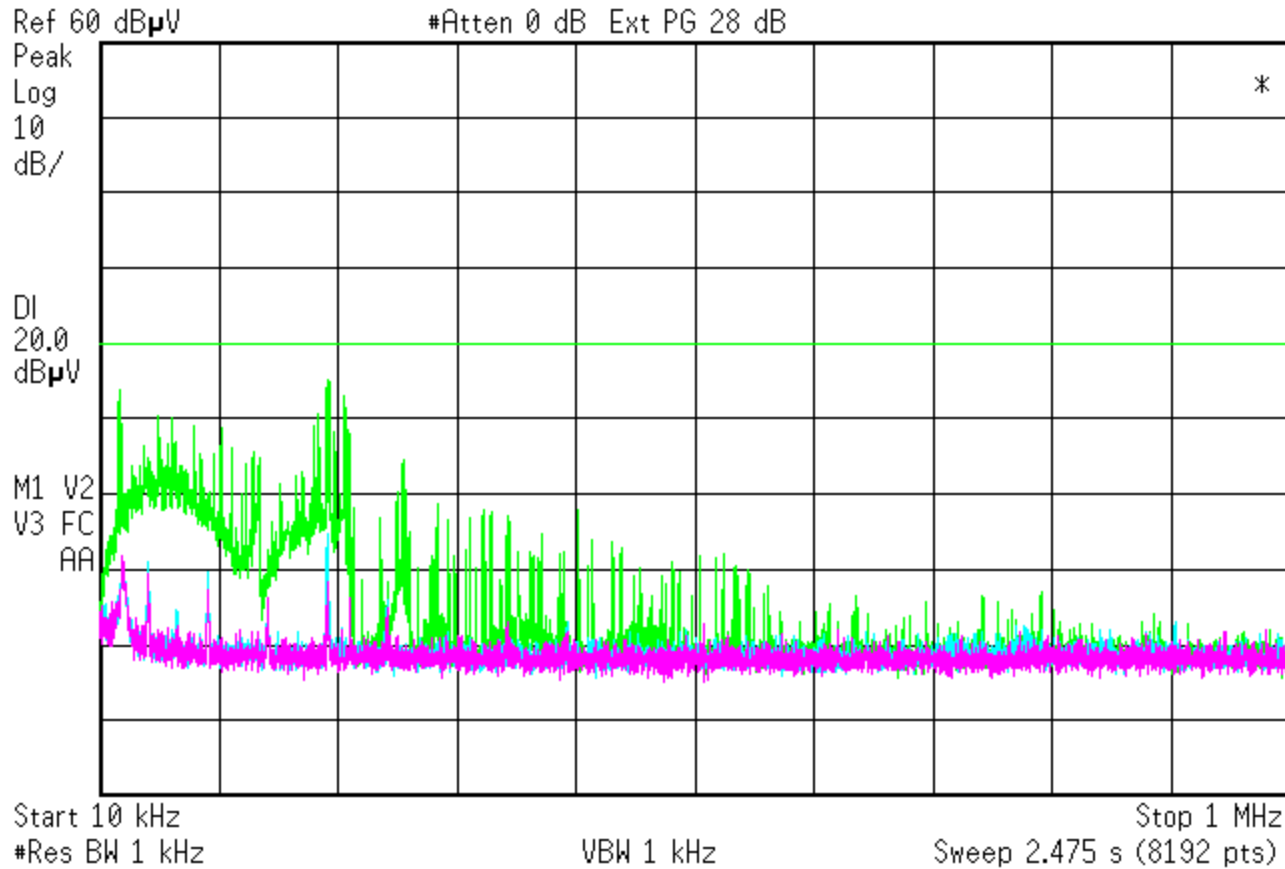
105 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- | | |
|--------------------------------|-------------|
| 100Base-T only | light blue |
| 100Base-T and discovery on/off | light green |
| Baseline | magenta |
| Display Line, 20 dBuV | light green |

Common Mode Current

105 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



105 meter CAT-5, 100 Mbps, full duplex, with and without on/off discovery

(each trace taken with Max Hold, 5-10 minutes of acquisition)

- | | |
|--------------------------------|-------------|
| 100Base-T only | light blue |
| 100Base-T and discovery on/off | light green |
| Baseline | magenta |
| Display Line, 20 dBuV | light green |

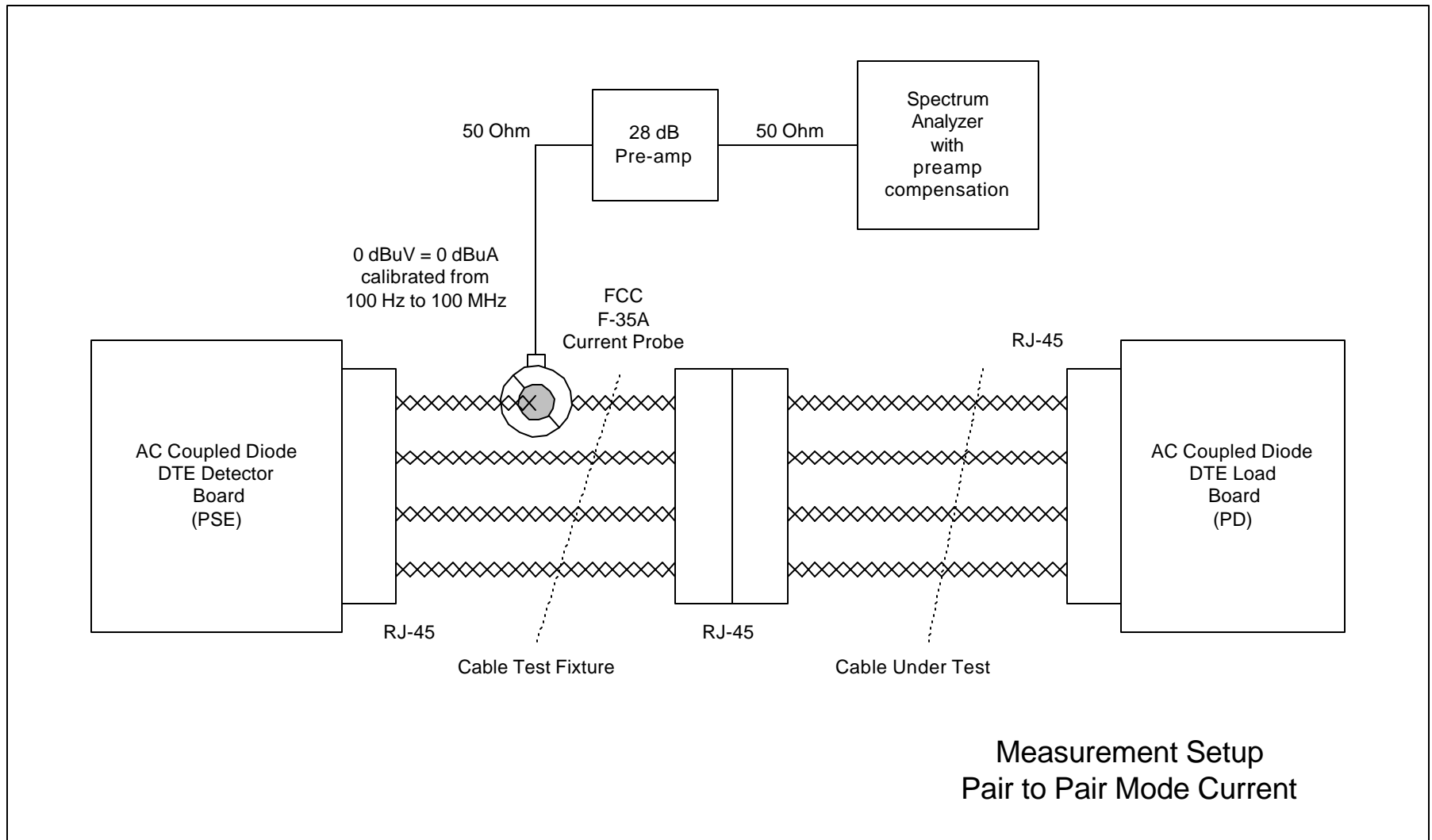
Common Mode Current

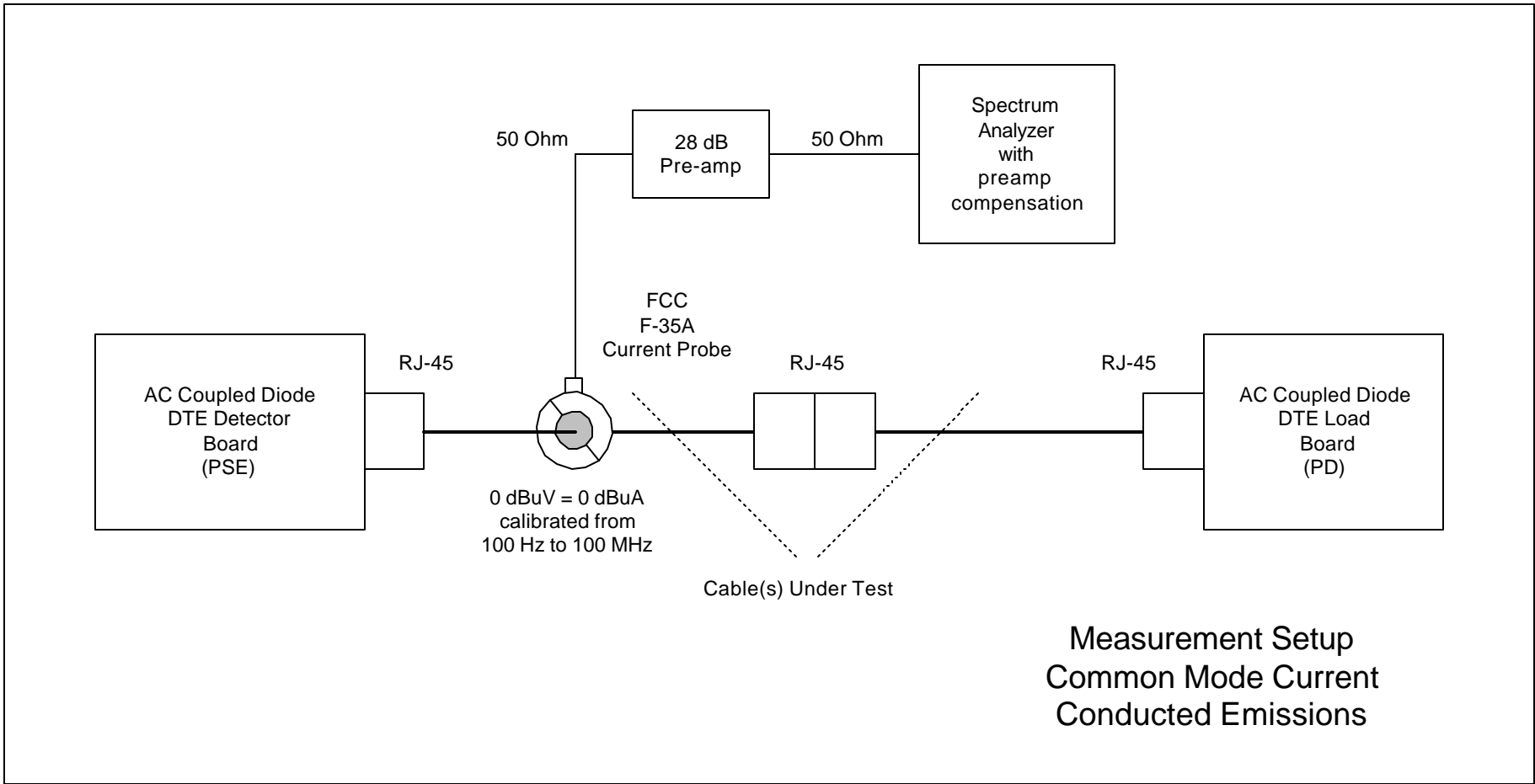
105 meter CAT-5, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

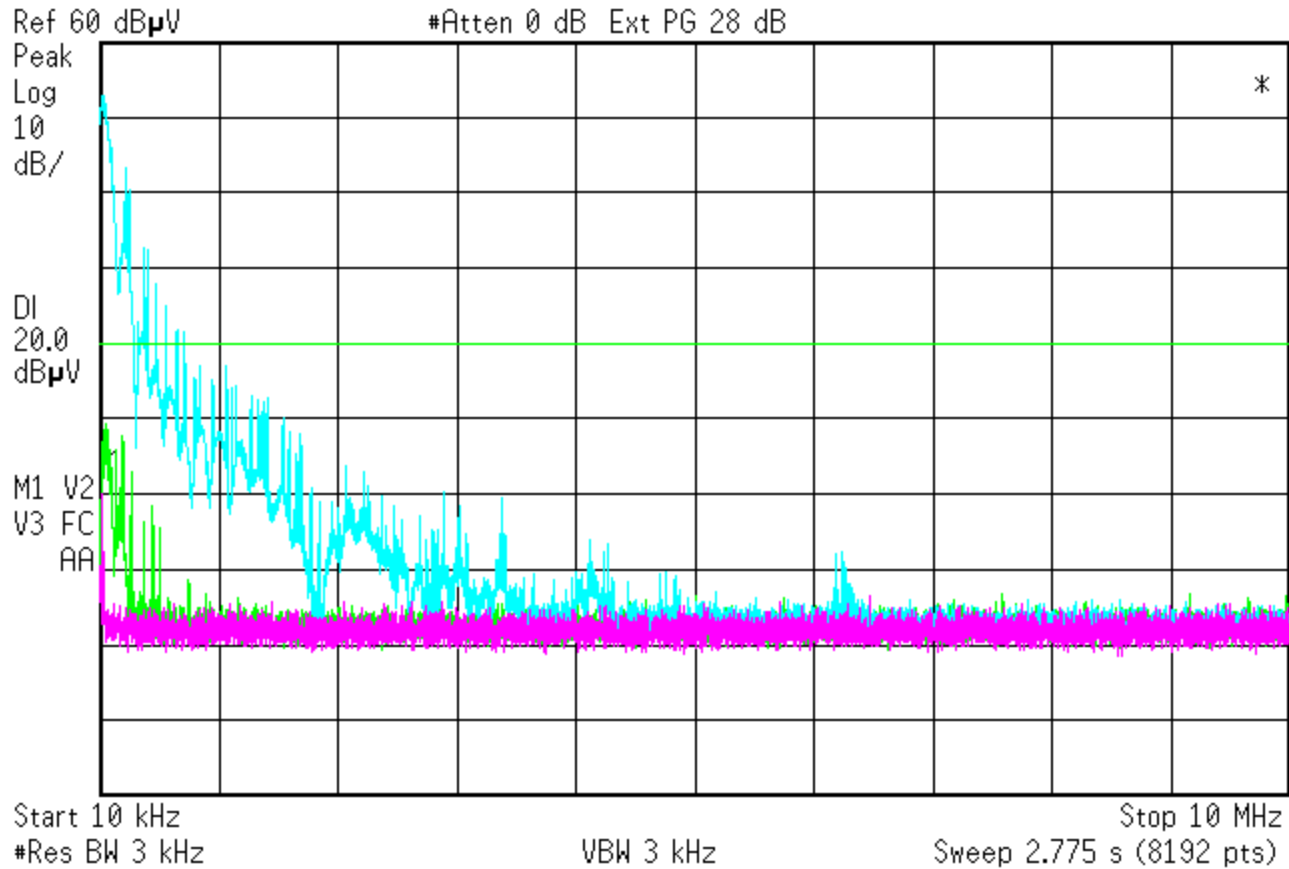
CAT-5 Cable Tests (Cont.)

1.2 meter CAT-5, Discovery only:

- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



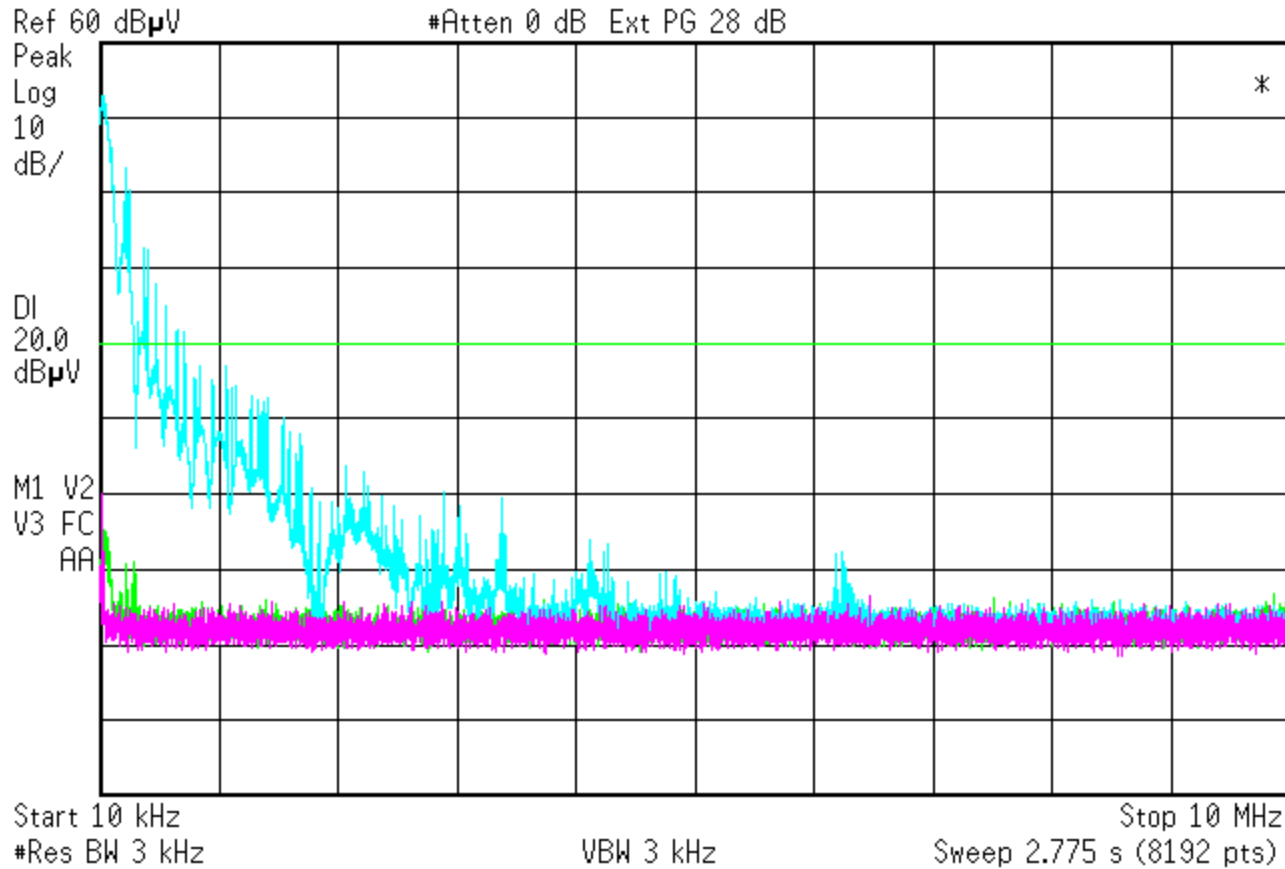




1.2 meter CAT-5, one proto, on/off disc
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

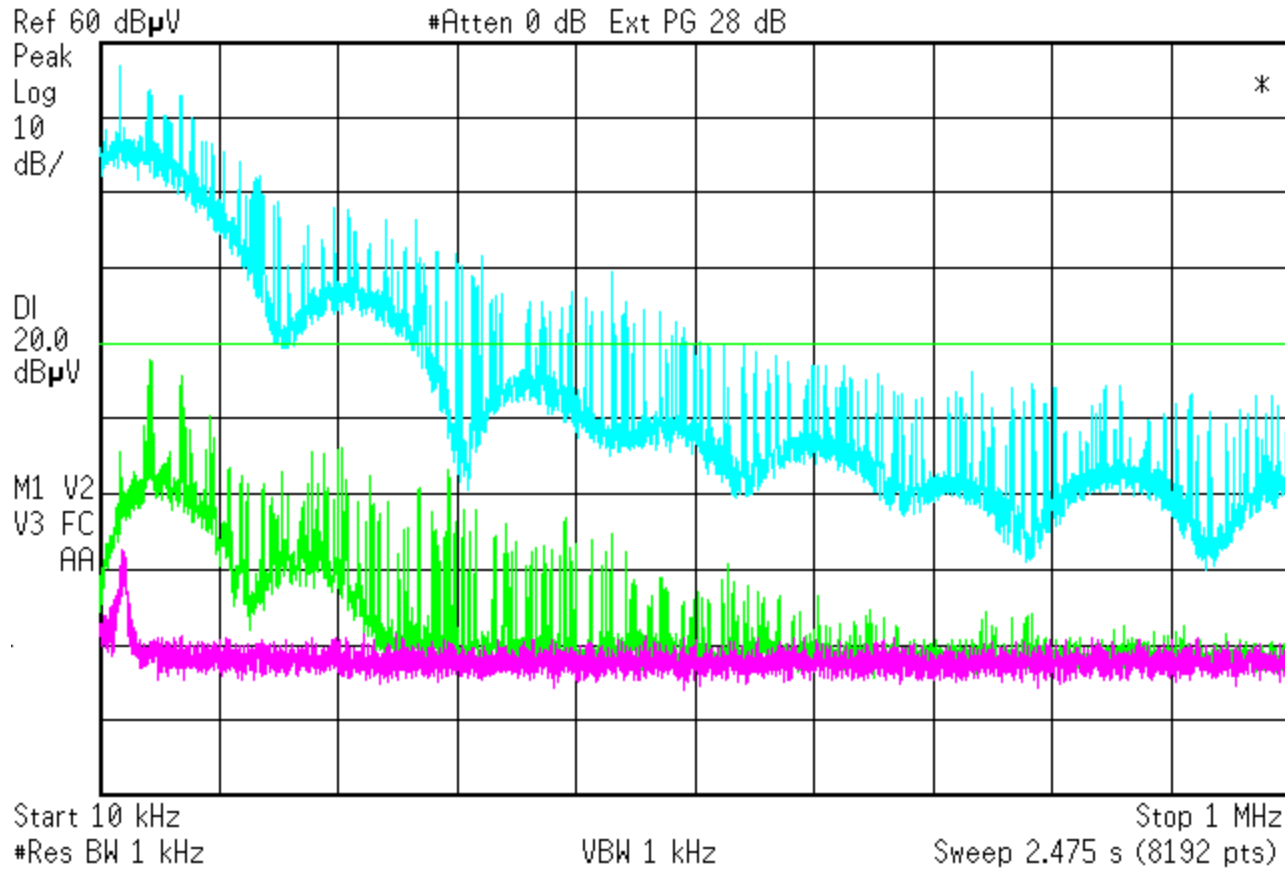
Driven and Unused "Pair to Pair" Mode Current 1.2 meter CAT-5, diode on/off discovery, (0 dBuA = 0 dBuV)



1.2 meter CAT-5, one proto, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

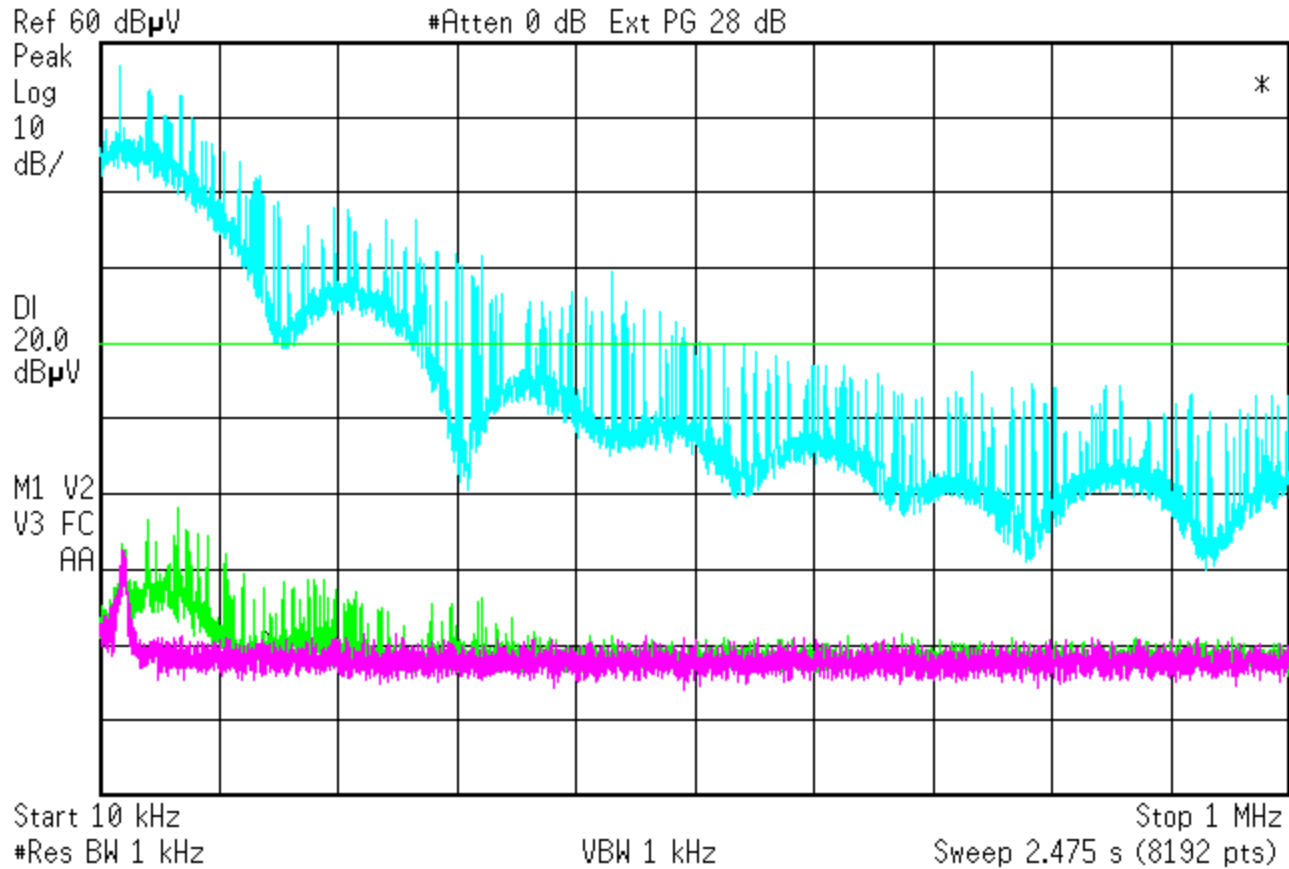
Common Mode Current and Driven "Pair to Pair" Mode Current 1.2 meter CAT-5, diode on/off discovery, (0 dBuA = 0 dBuV)



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baseline	magenta
Display Line, 20 dBuV	light green

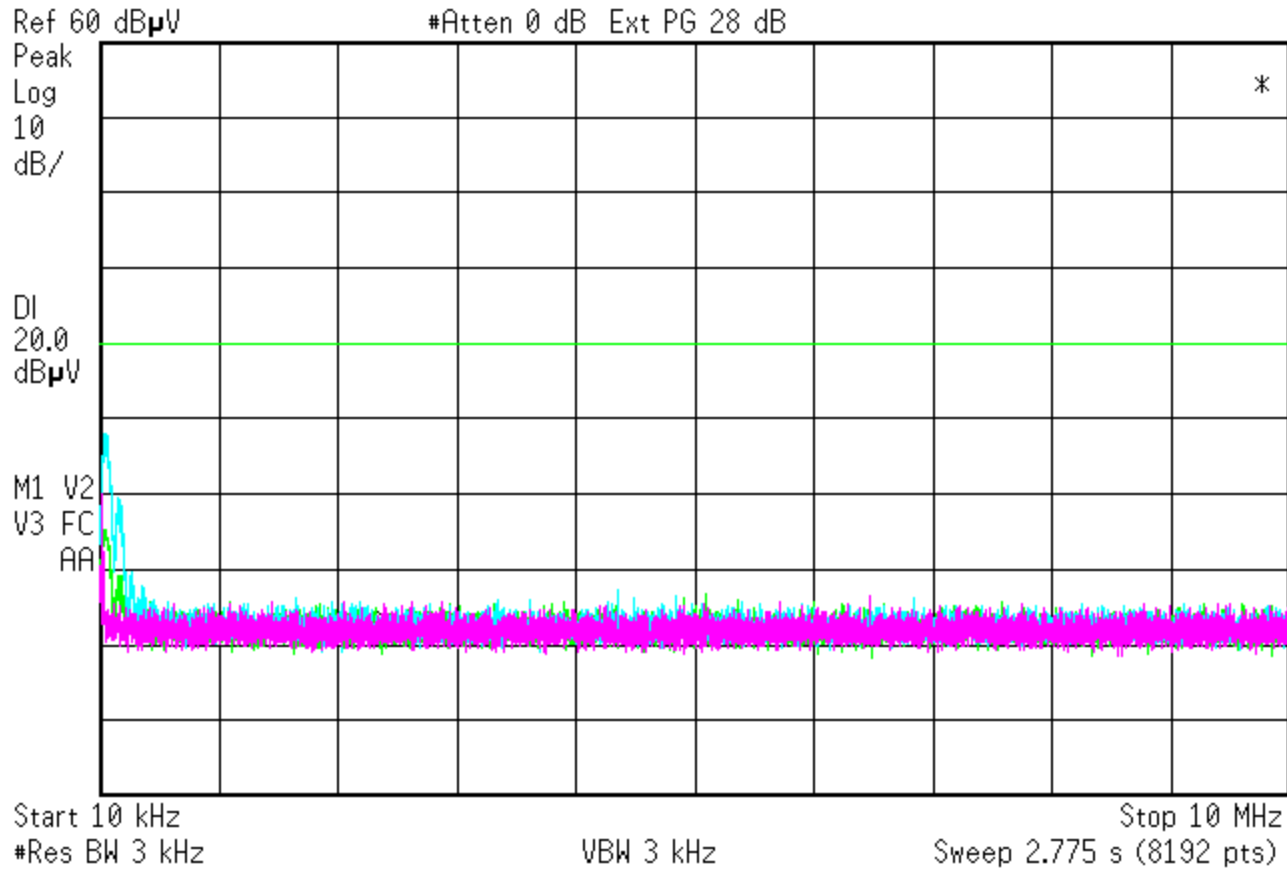
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1.2 meter CAT-5, one proto, on/off disc
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Primary driving pair to pair mode	light blue
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baseline	magenta
Display Line, 20 dBuV	light green

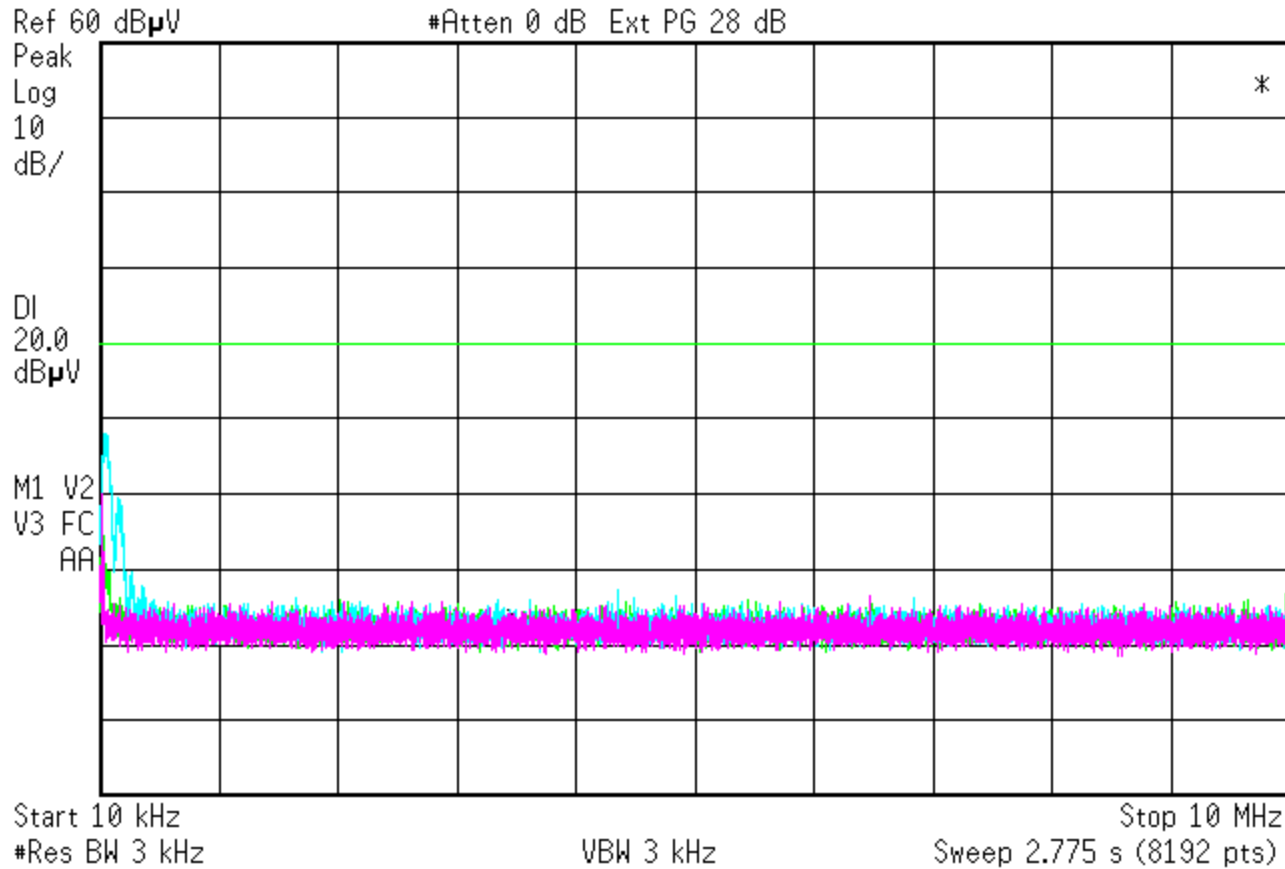
Common Mode Current and Driven "Pair to Pair" Mode Current 1.2 meter CAT-5, diode on/off discovery, (0 dBuA = 0 dBuV)



1.2 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

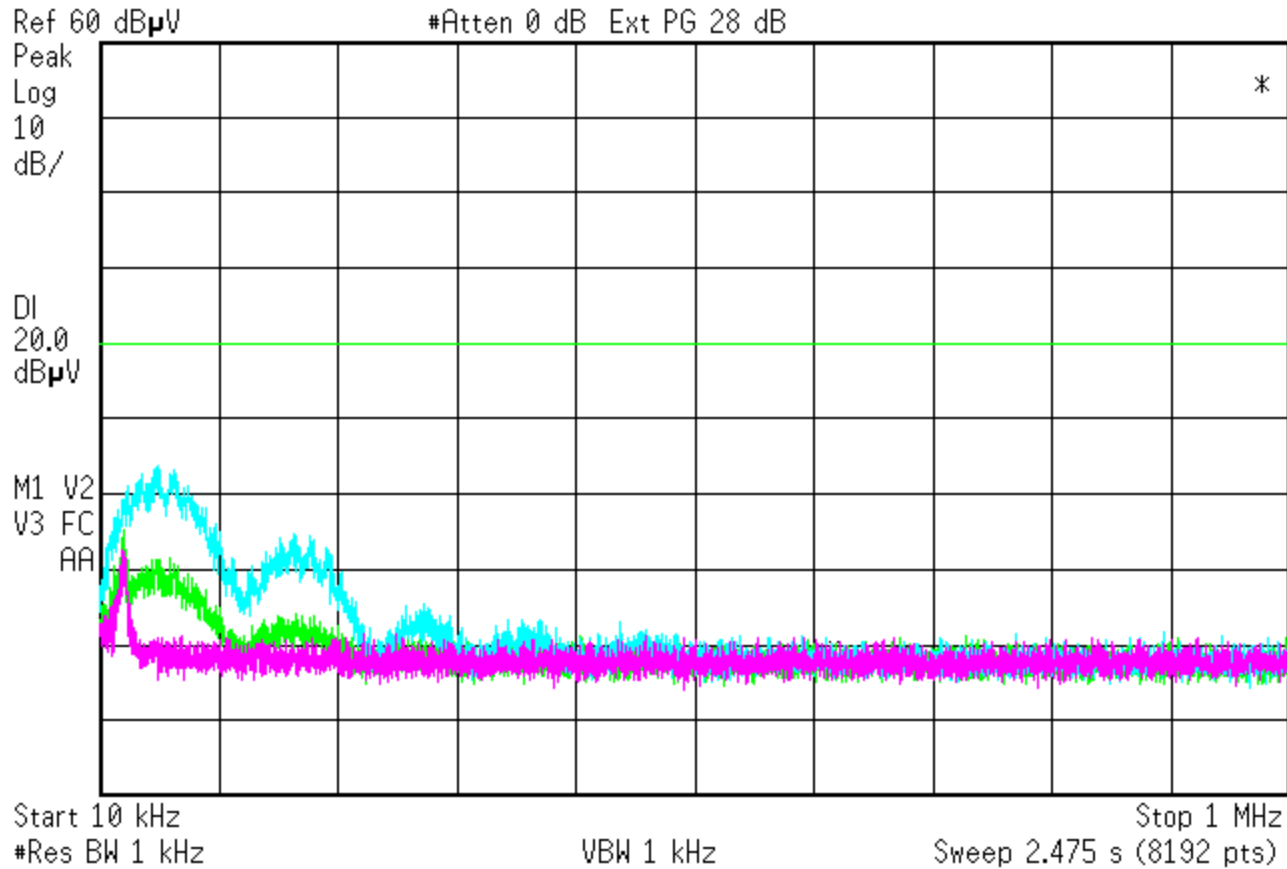
Driven and Unused "Pair to Pair" Mode Current 1.2 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



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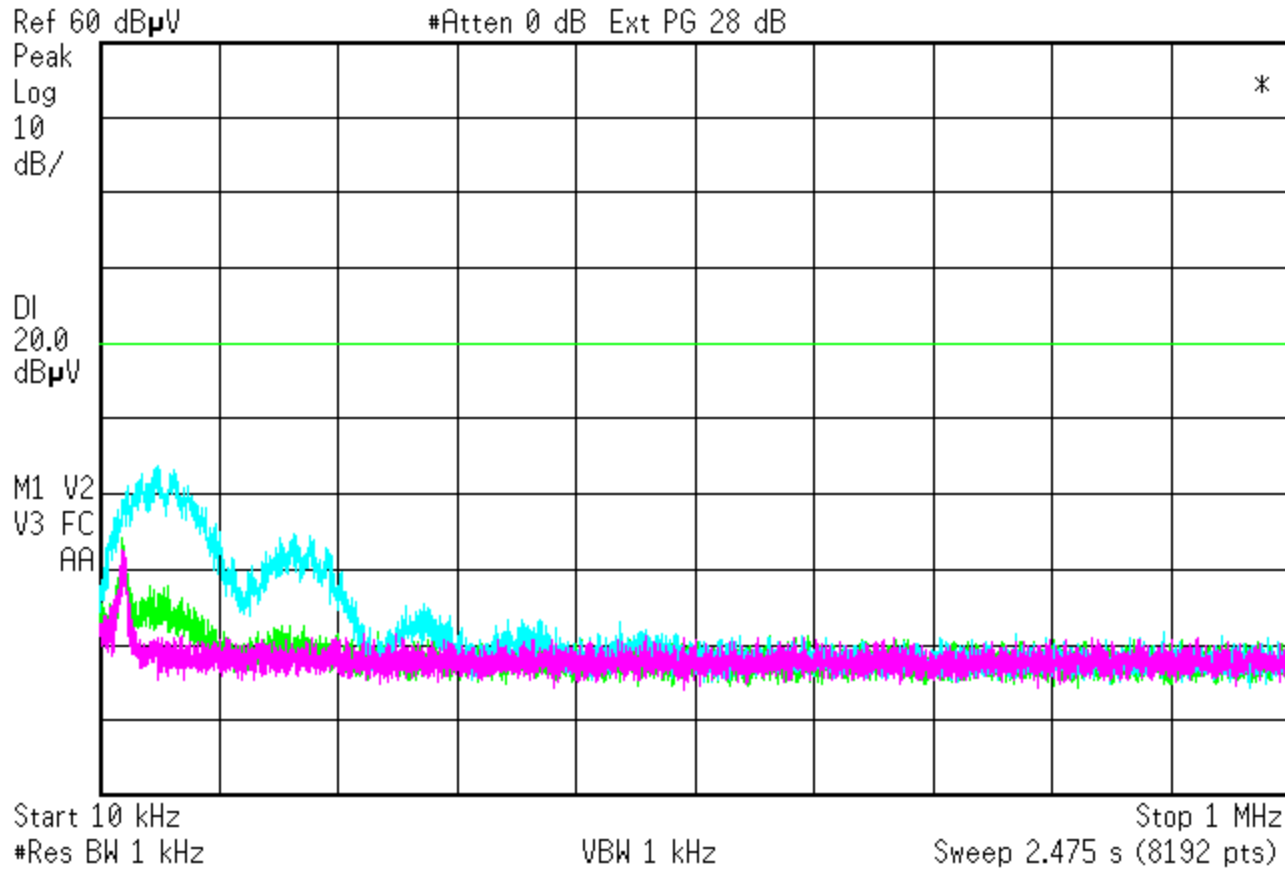
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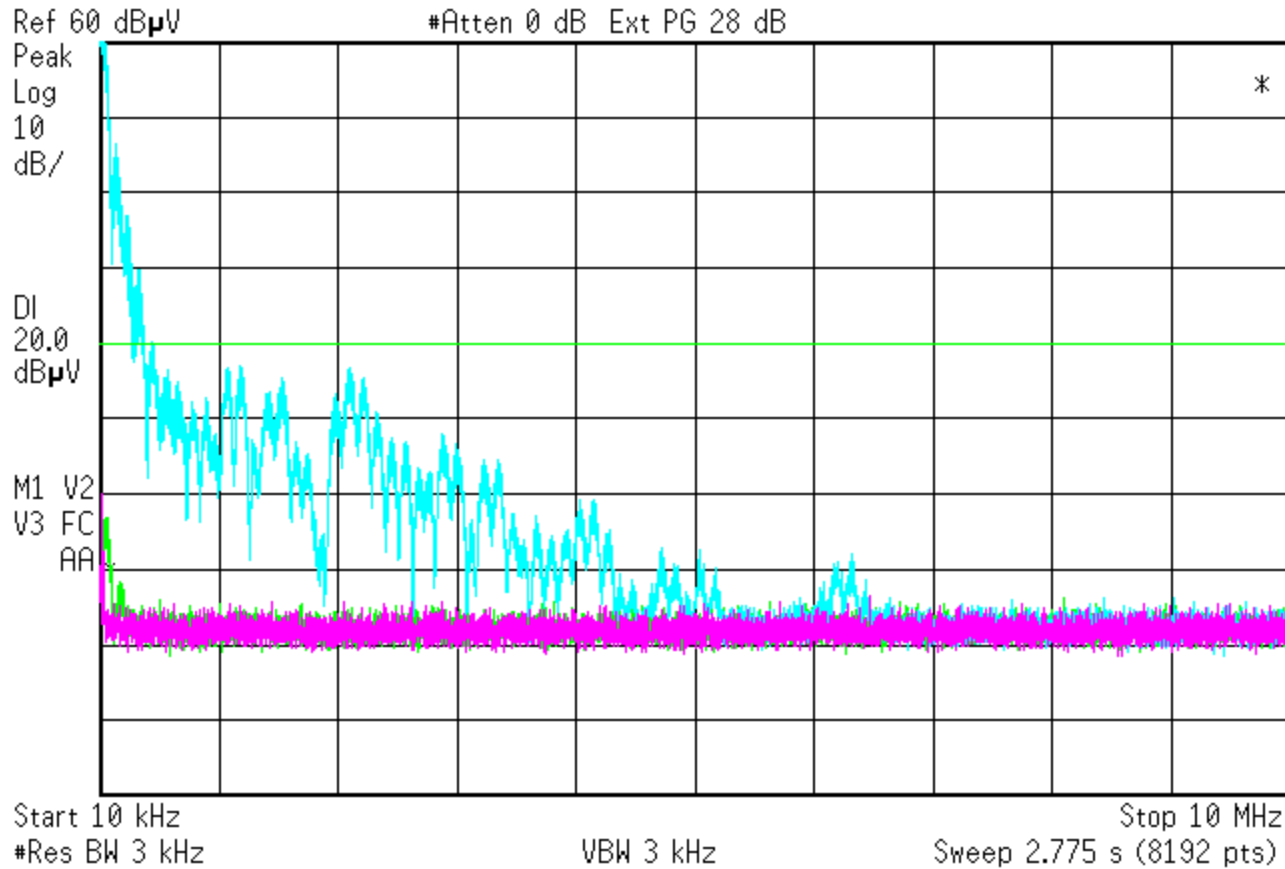
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1.2 meter CAT-5, one proto, open load
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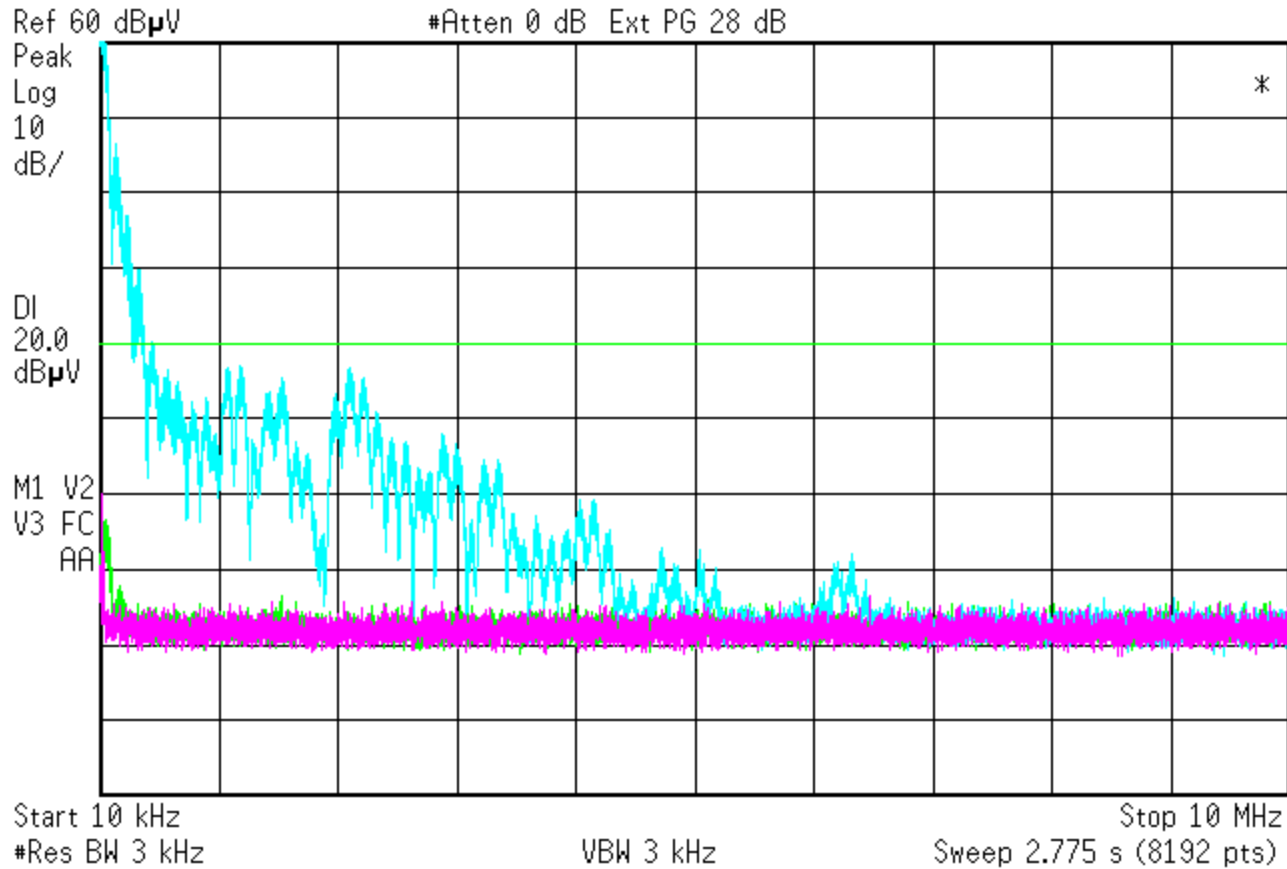
Common Mode Current and Driven "Pair to Pair" Mode Current 1.2 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



1.2 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

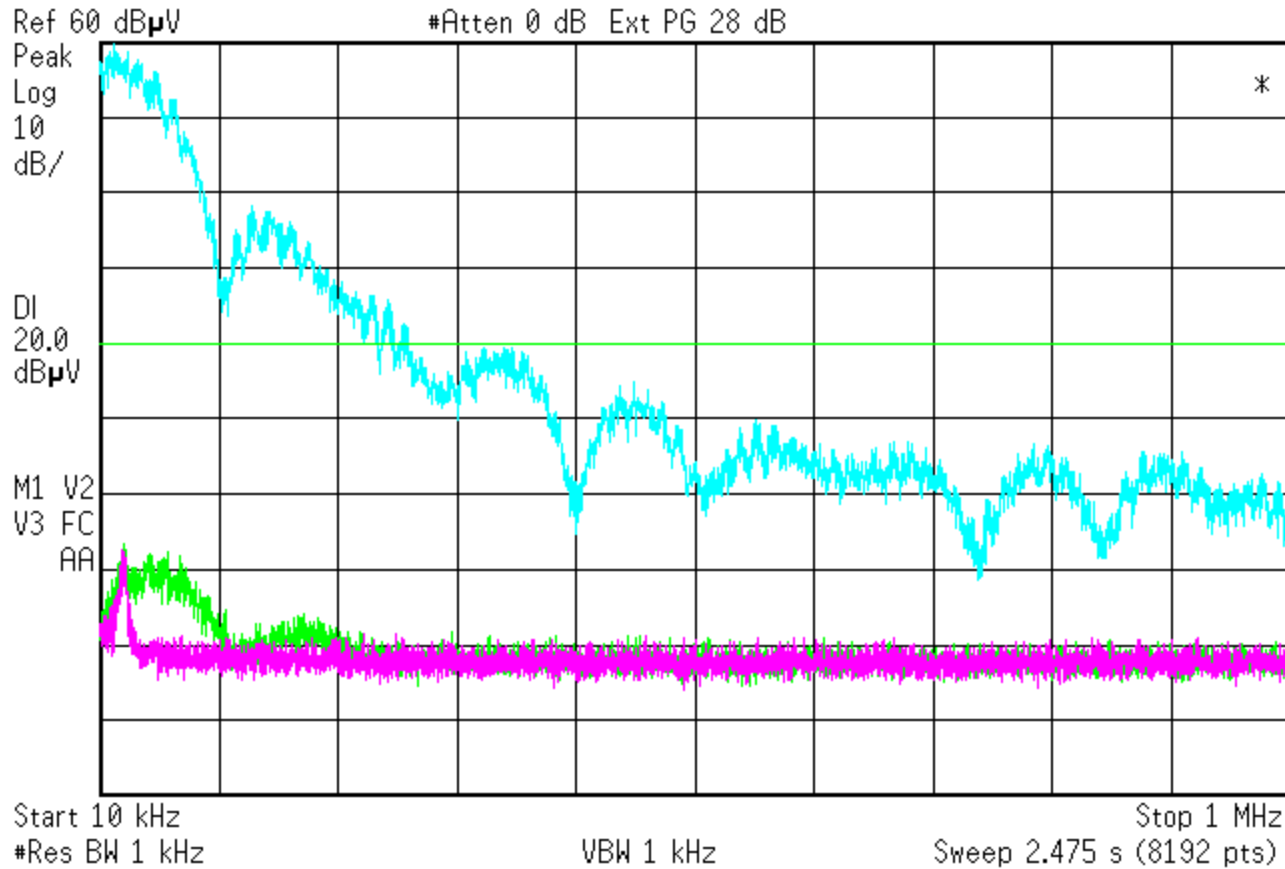
Driven and Unused "Pair to Pair" Mode Current 1.2 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



1.2 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

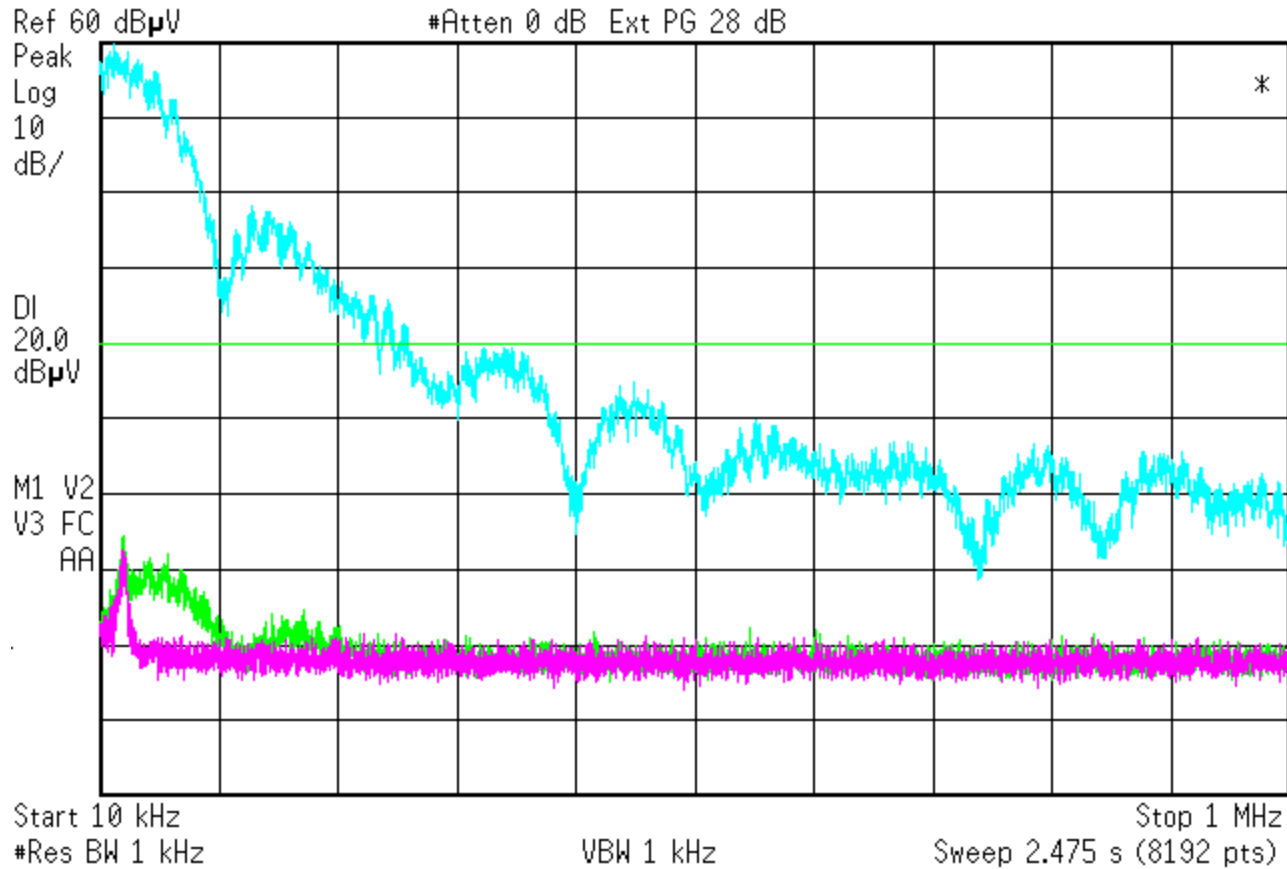
Common Mode Current and Driven "Pair to Pair" Mode Current 1.2 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



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Driven and Unused "Pair to Pair" Mode Current 1.2 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



1.2 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

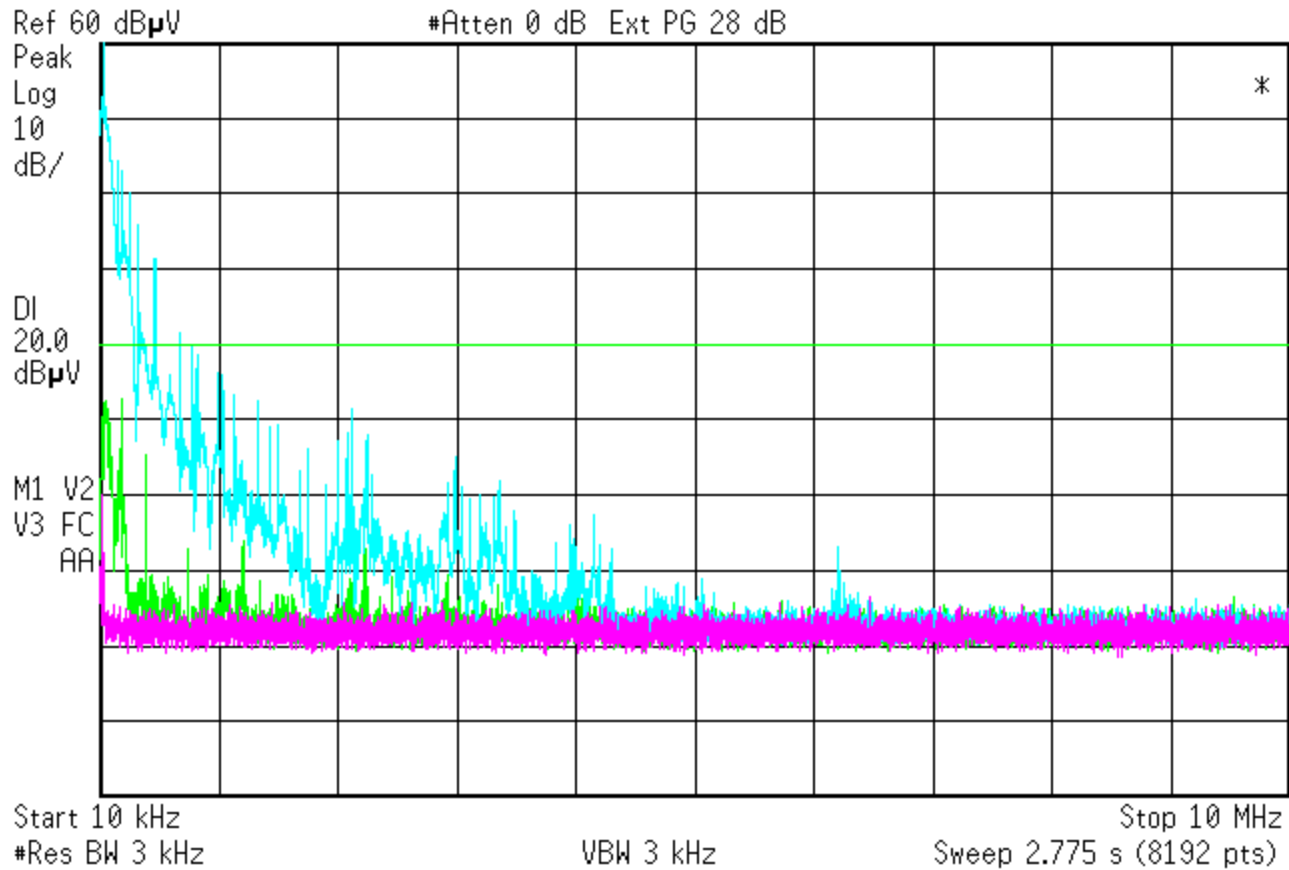
Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 1.2 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)

CAT-5 Cable Tests, (Cont.)

12 meter CAT-5, Discovery only:

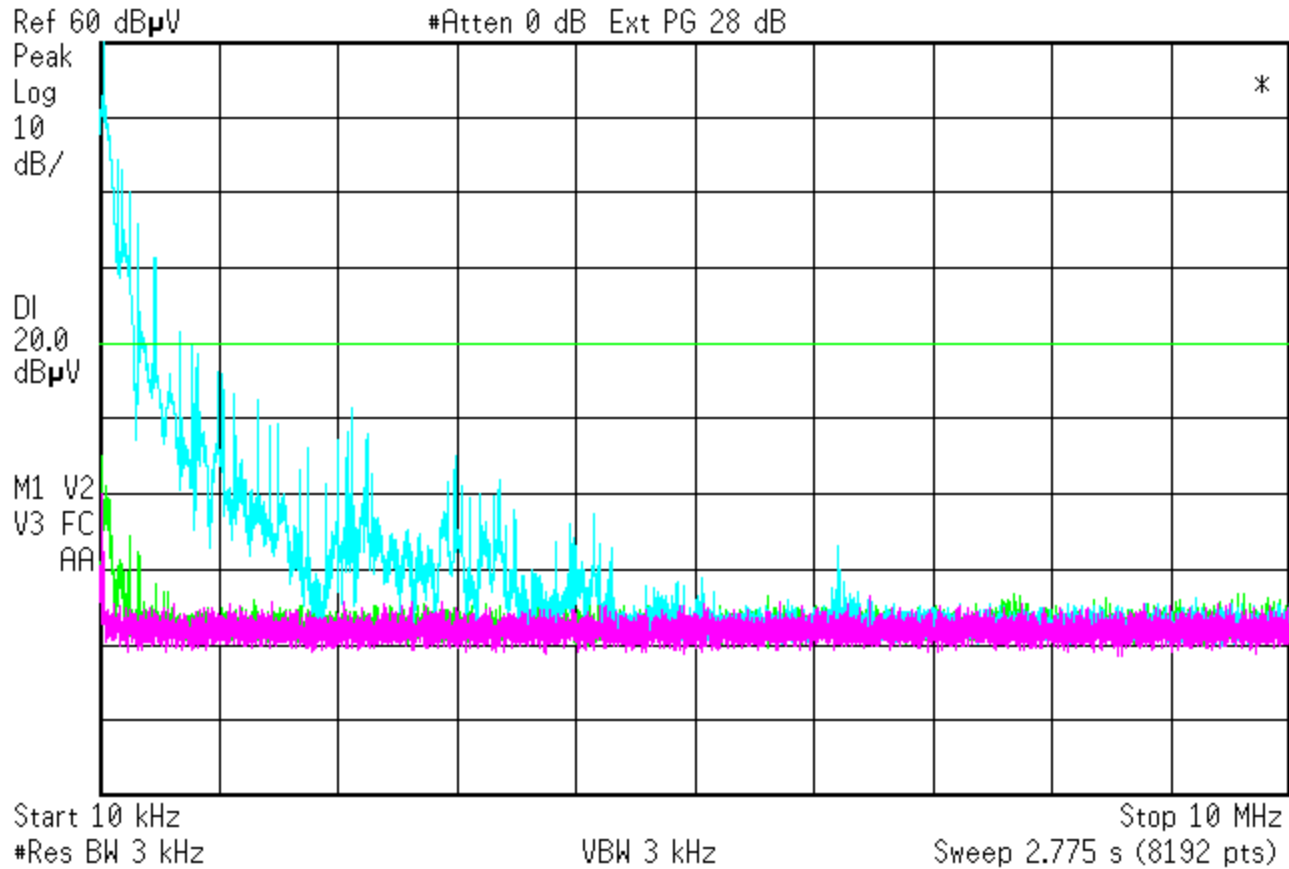
- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



12 meter CAT-5, one proto, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

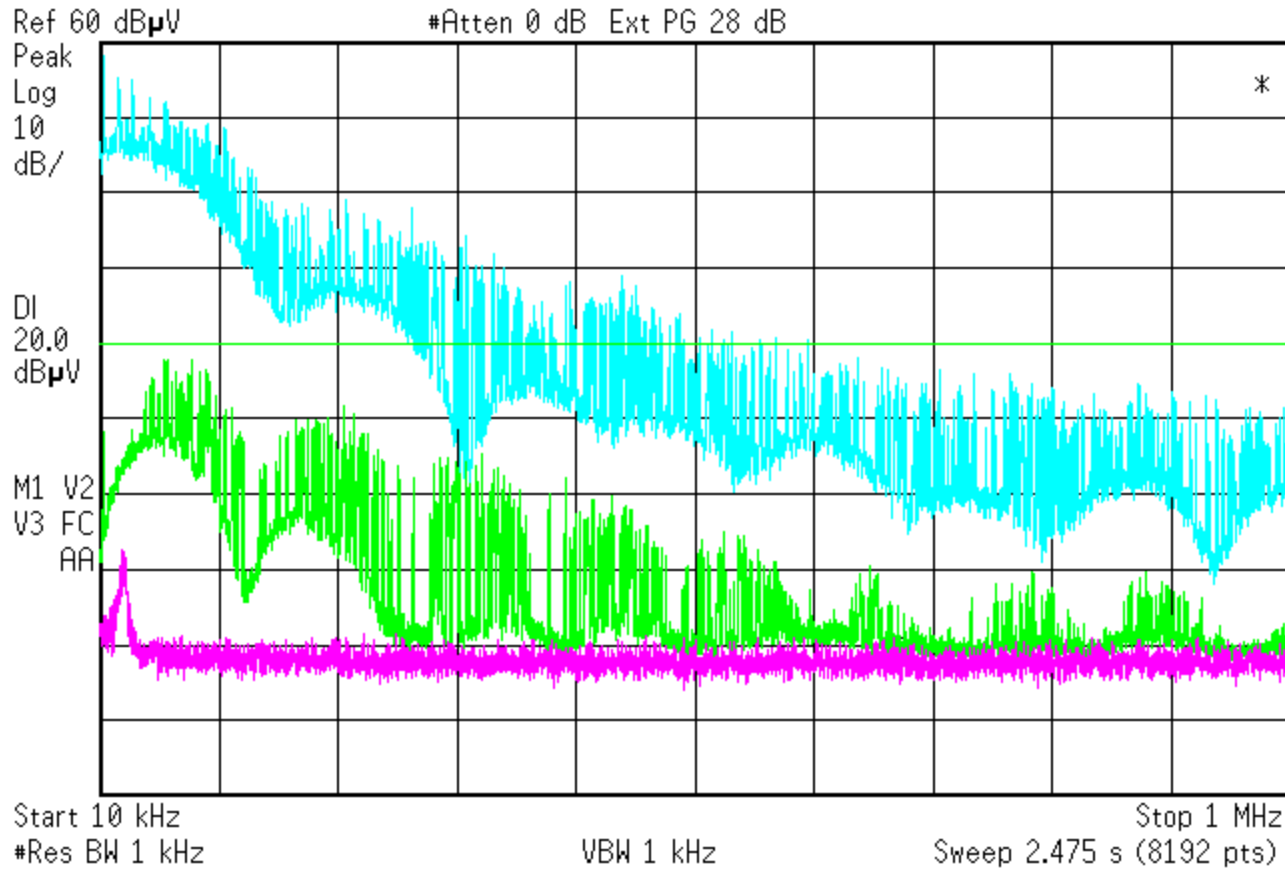
Driven and Unused "Pair to Pair" Mode Current 12 meter CAT-5, diode on/off discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, on/off disc
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Primary driving pair to pair mode	light blue
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Display Line, 20 dBuV	light green

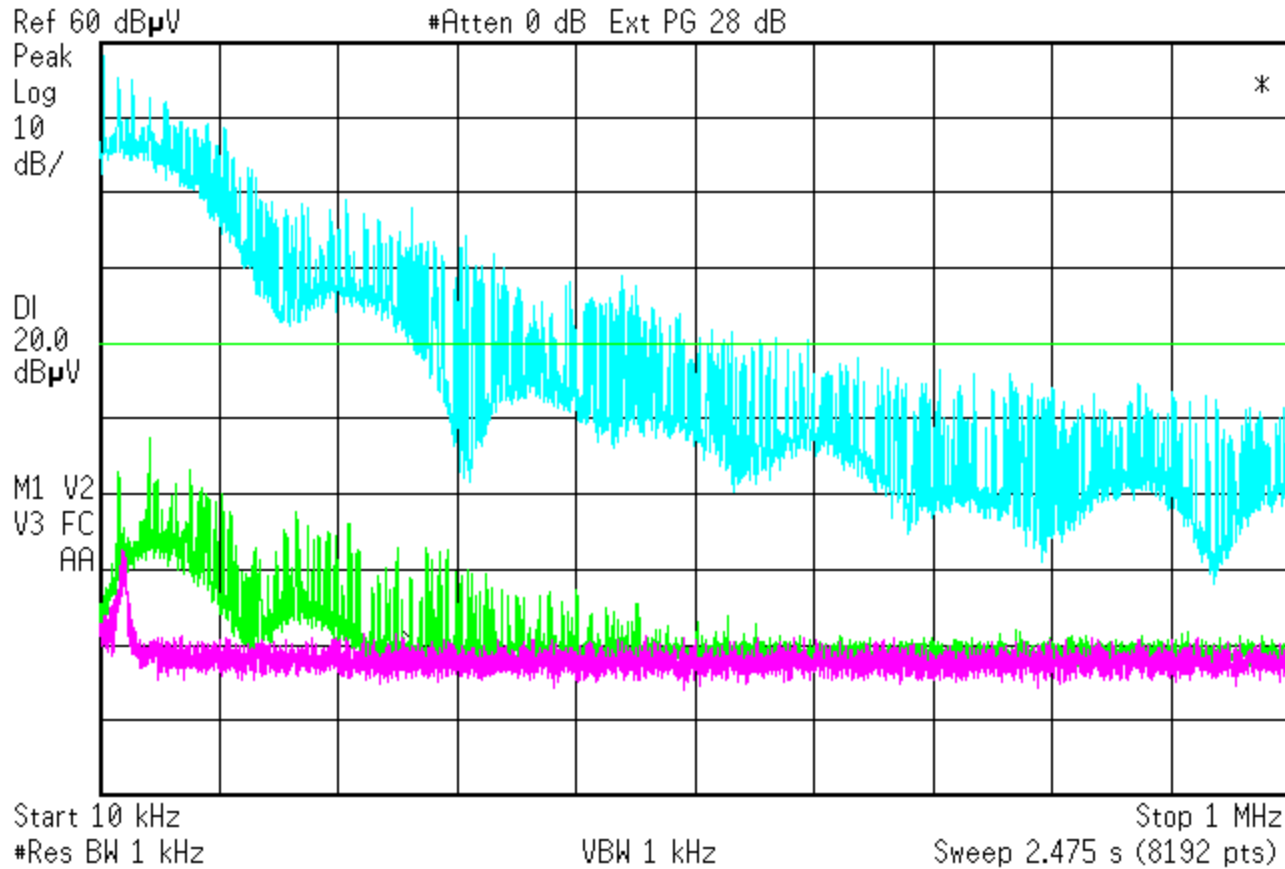
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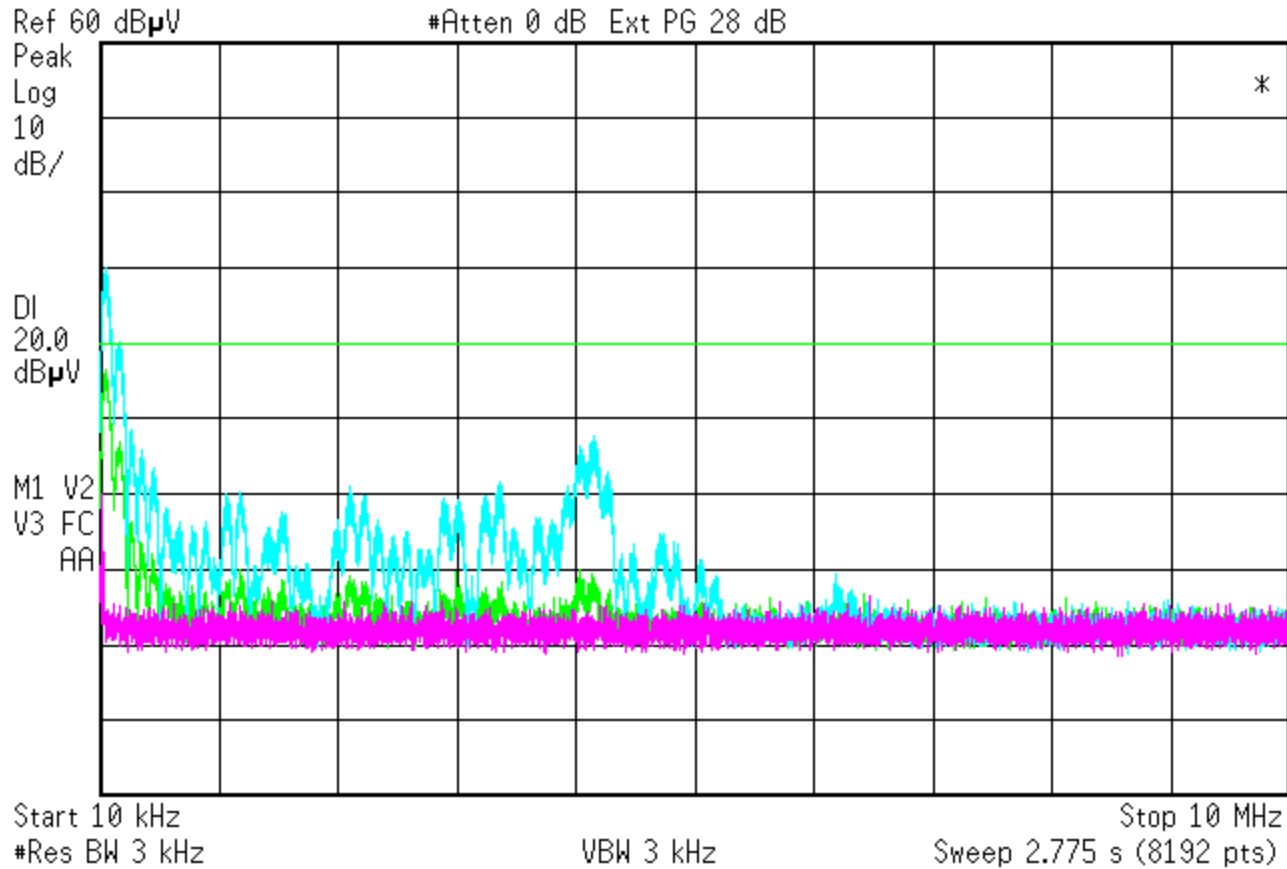
Driven and Unused "Pair to Pair" Mode Current 12 meter CAT-5, diode on/off discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, on/off disc
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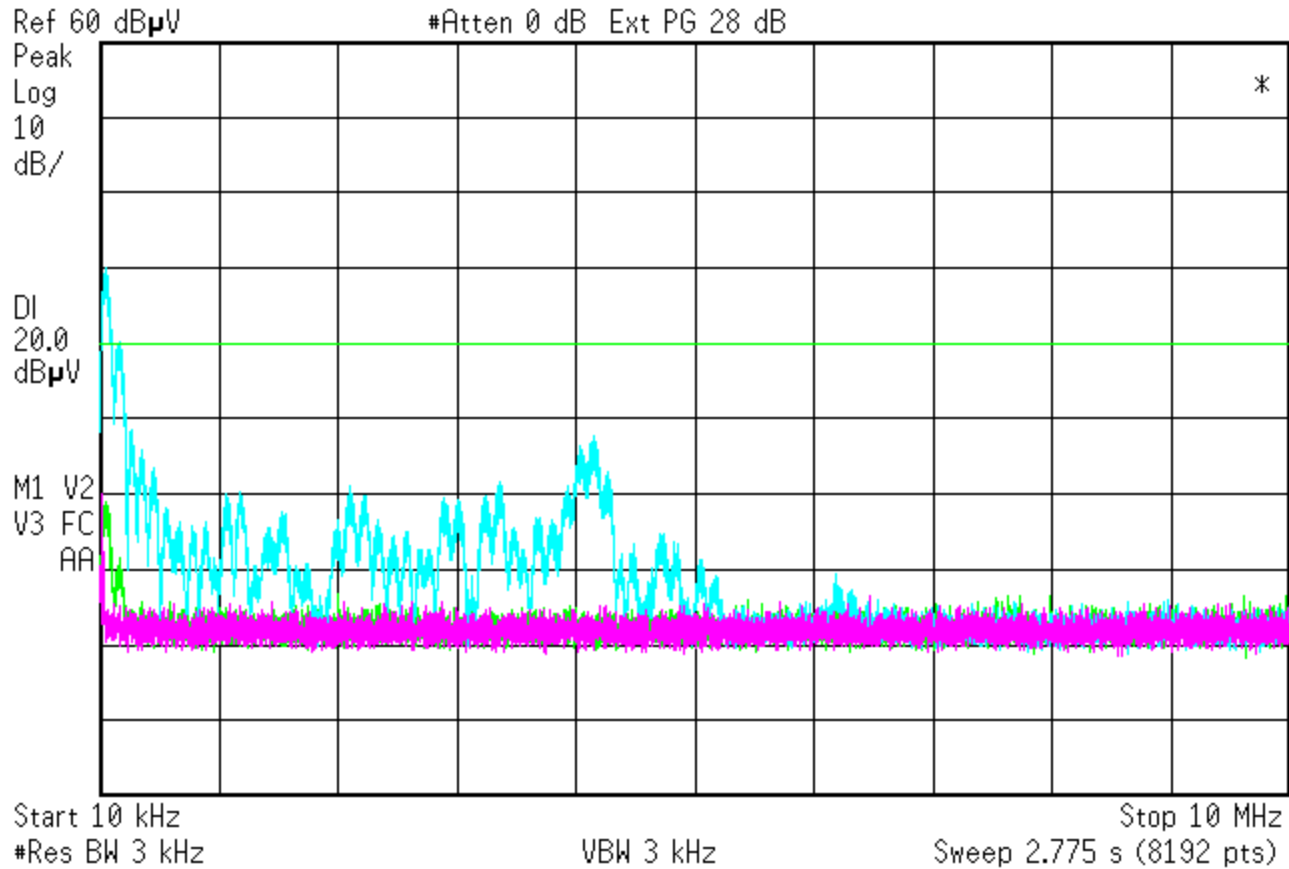
Common Mode Current and Driven "Pair to Pair" Mode Current 12 meter CAT-5, diode on/off discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

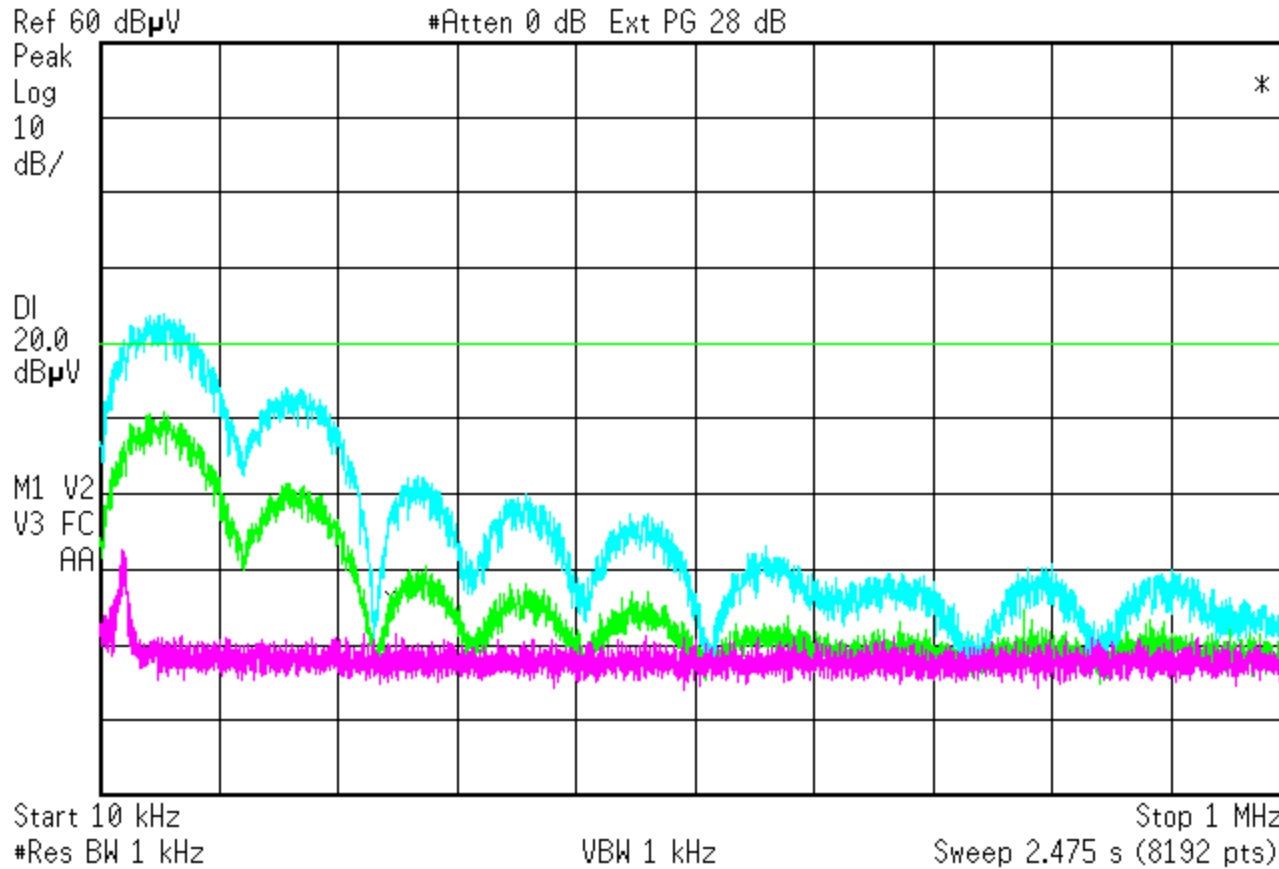
Driven and Unused "Pair to Pair" Mode Current 12 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dB μ V	light green

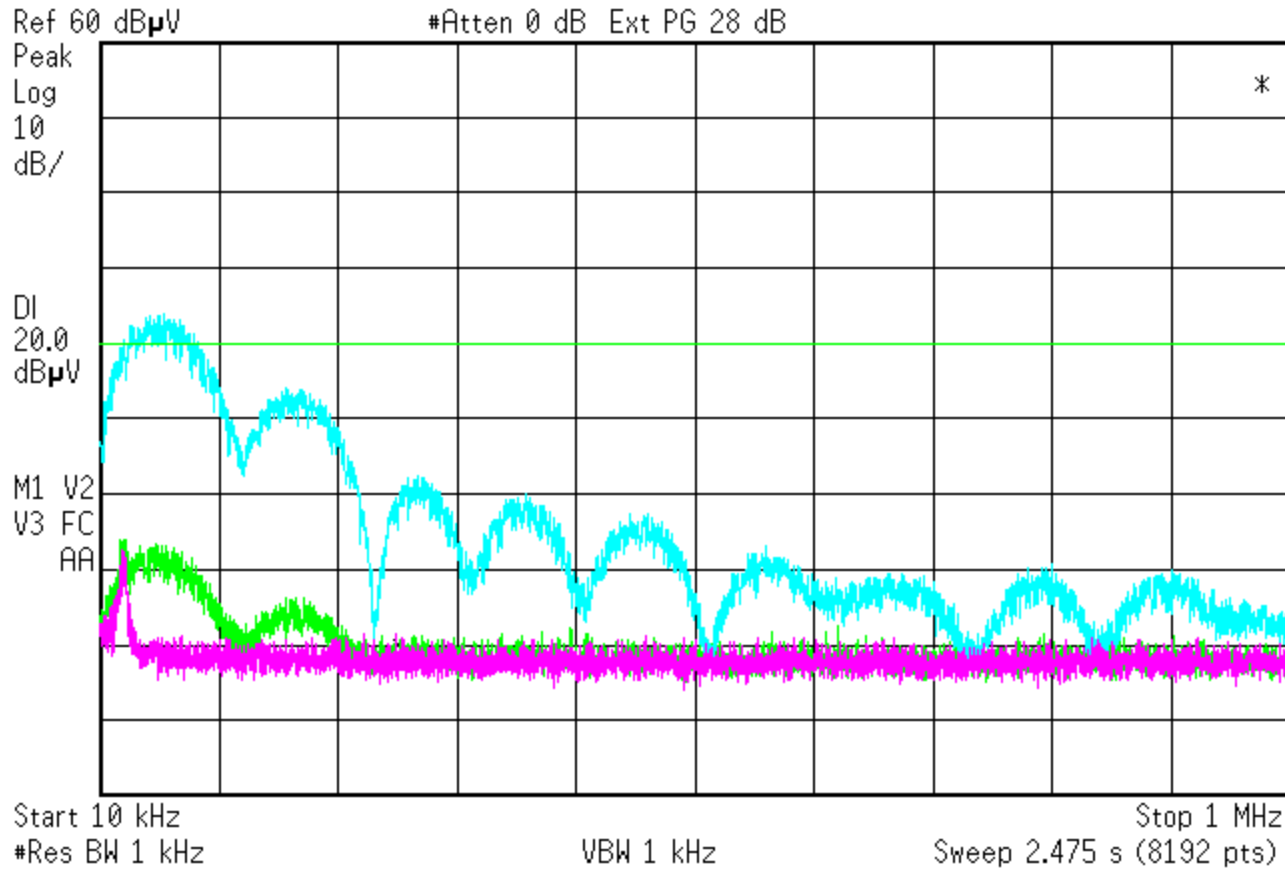
Common Mode Current and Driven "Pair to Pair" Mode Current 12 meter CAT-5, Open Load discovery, (0 dB μ A = 0 dB μ V)



12 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
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baseline	magenta
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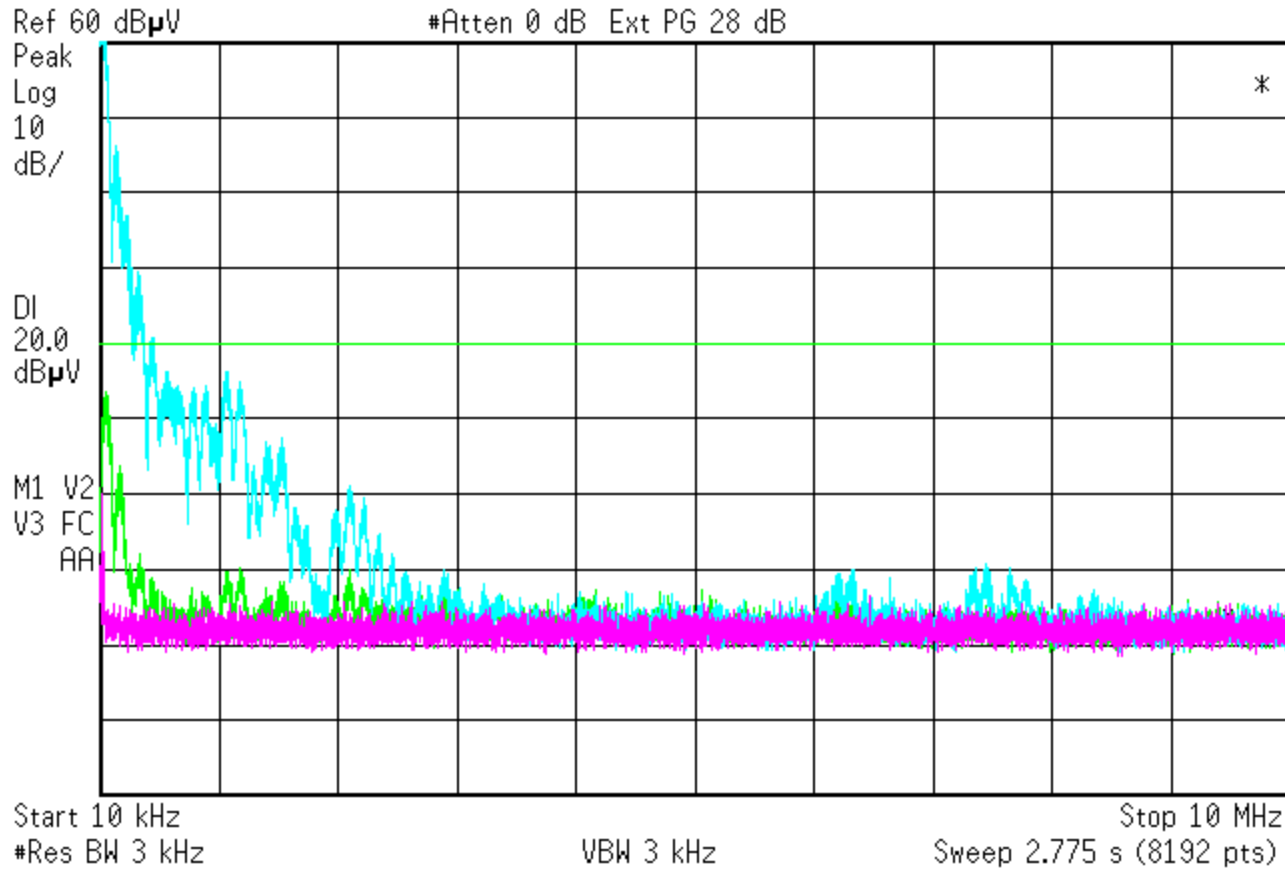
Driven and Unused "Pair to Pair" Mode Current 12 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, open load
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common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

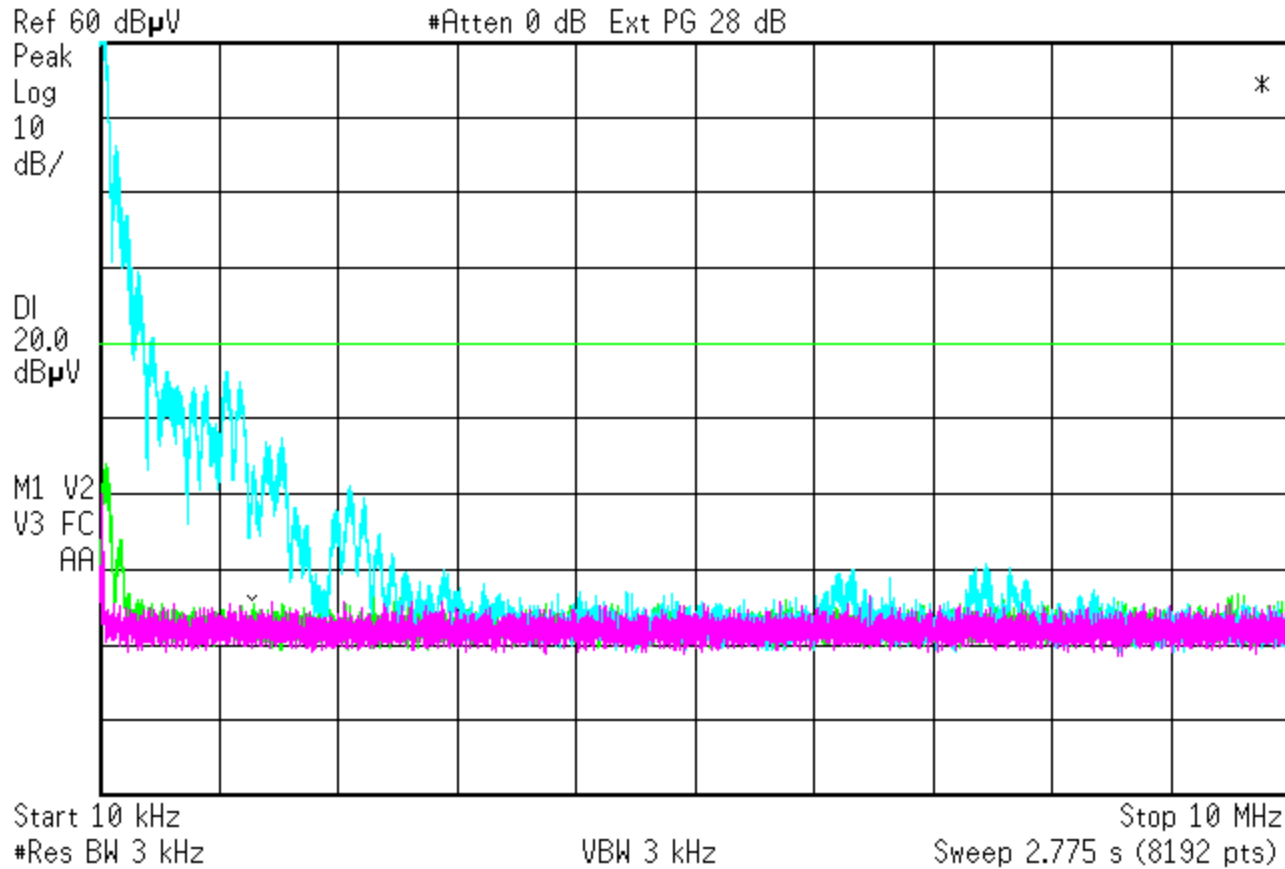
Common Mode Current and Driven "Pair to Pair" Mode Current 12 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

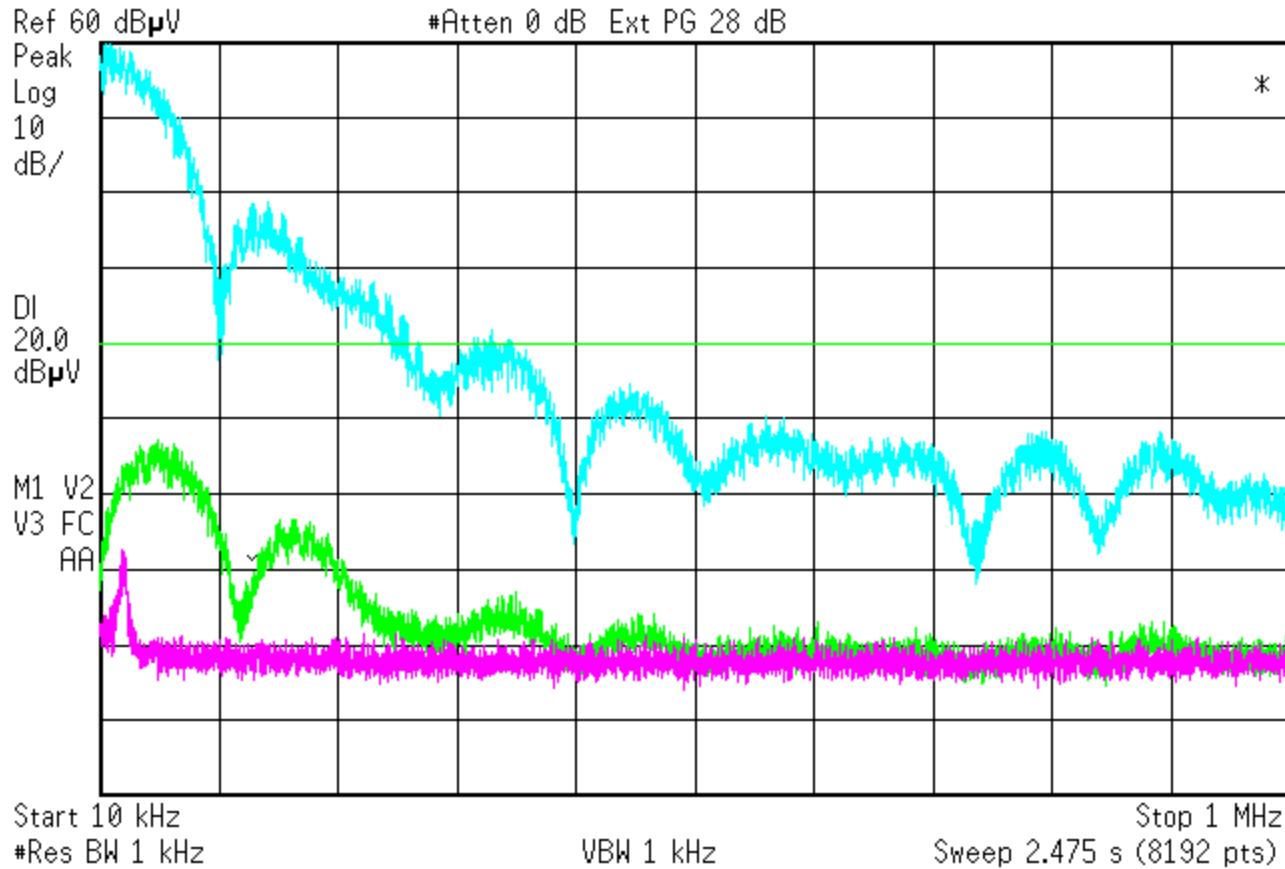
Driven and Unused "Pair to Pair" Mode Current 12 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, shorted load
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

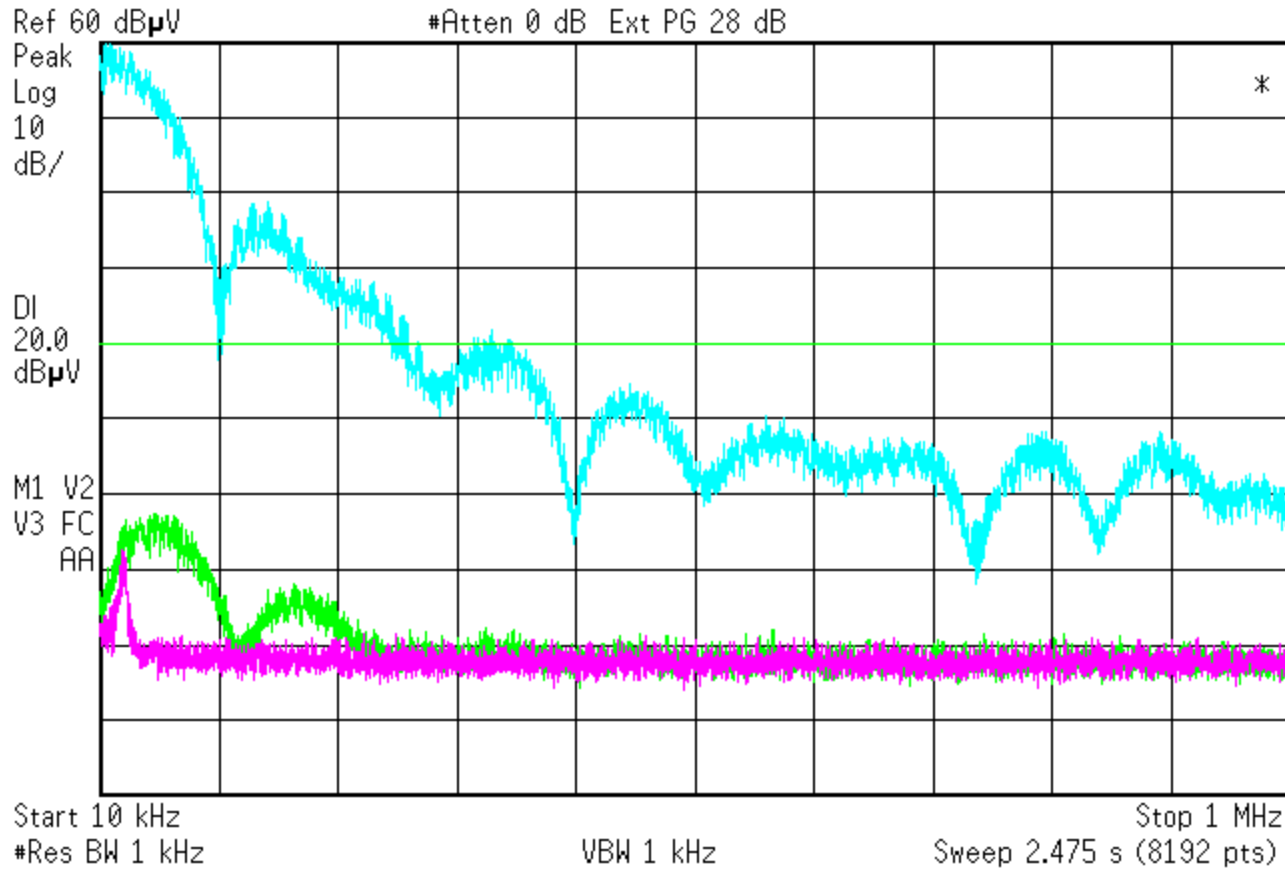
Common Mode Current and Driven "Pair to Pair" Mode Current 12 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Driven and Unused "Pair to Pair" Mode Current 12 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



12 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

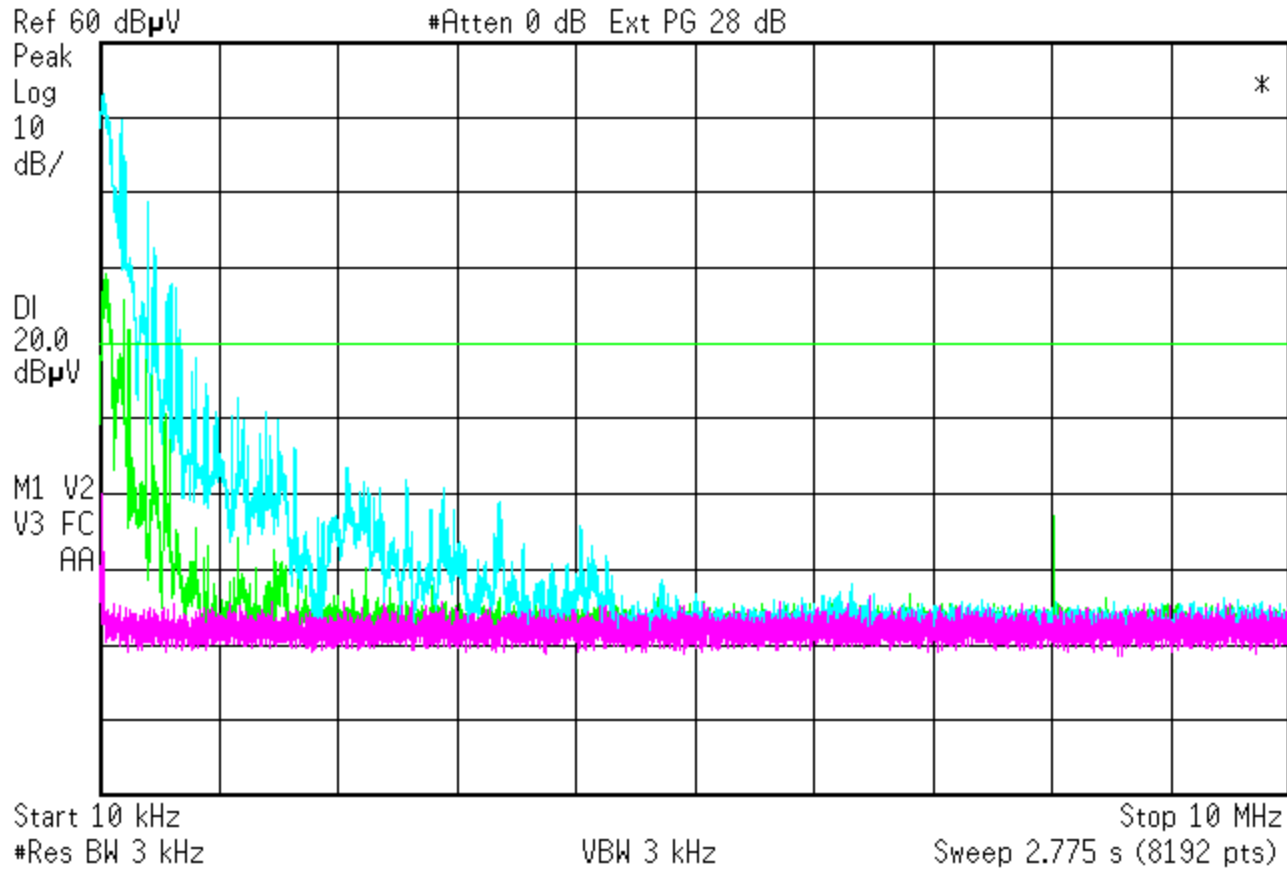
Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 12 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)

CAT-5 Cable Tests, (Cont.)

102 meter CAT-5, Discovery only:

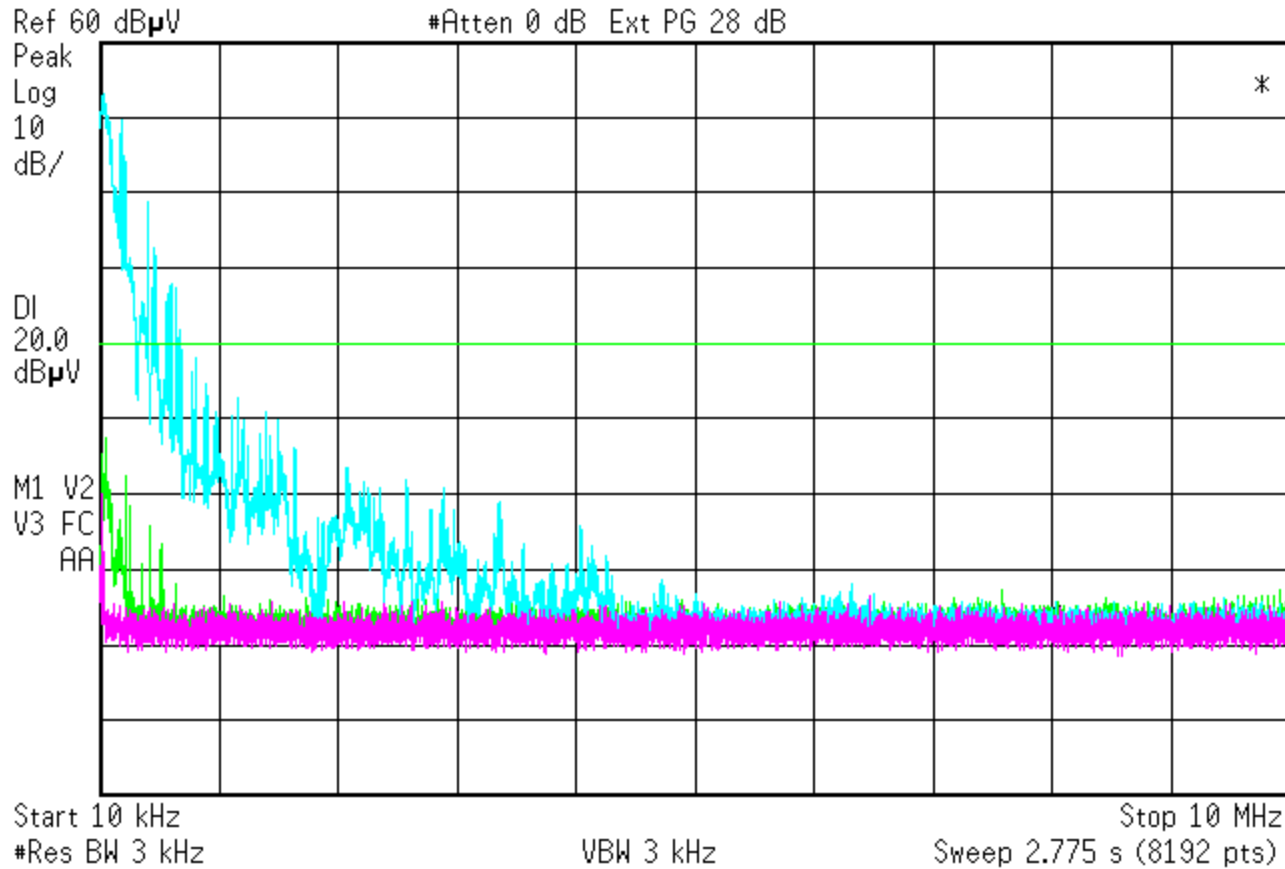
- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



102 meter CAT-5, one proto, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

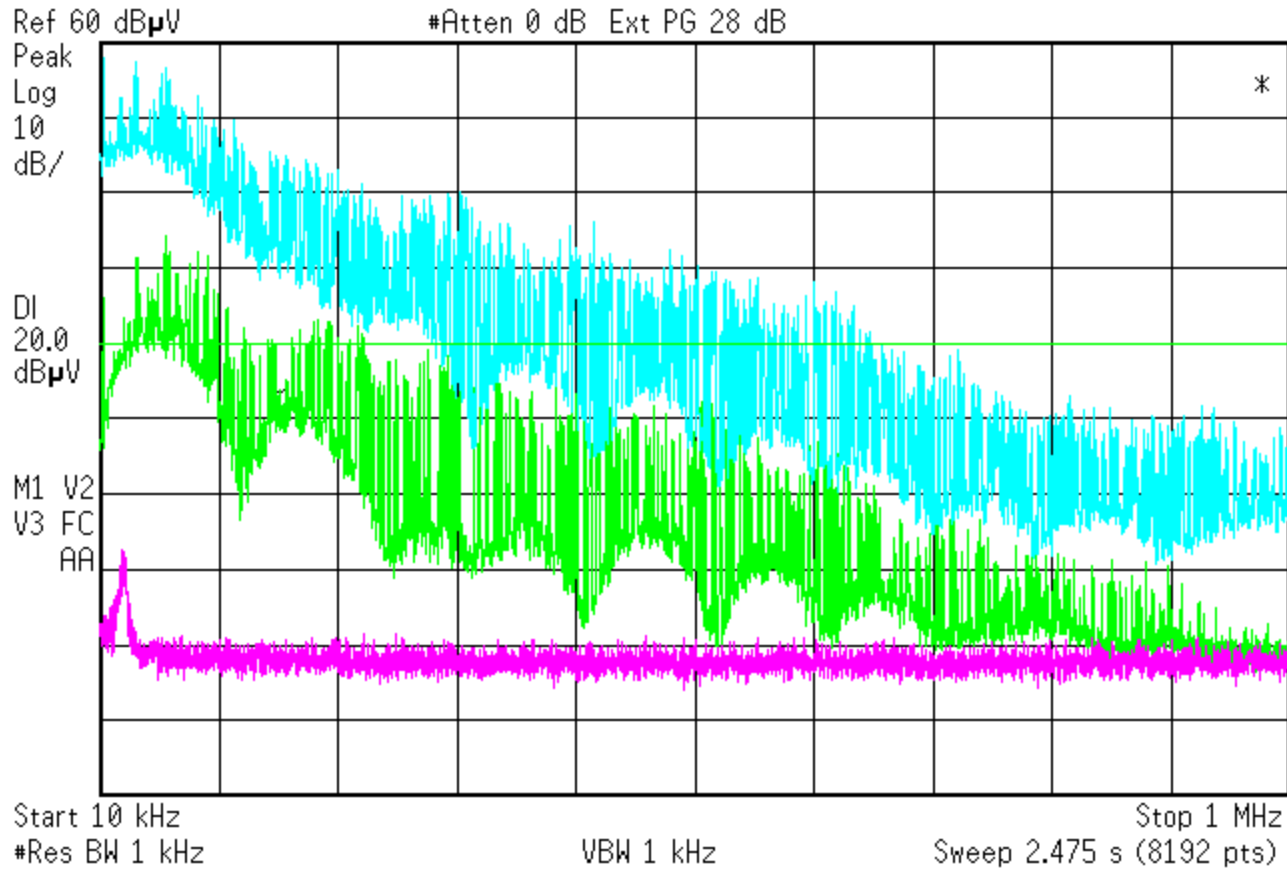
Driven and Unused "Pair to Pair" Mode Current 102 meter CAT-5, On/Off discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, on/off disc
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

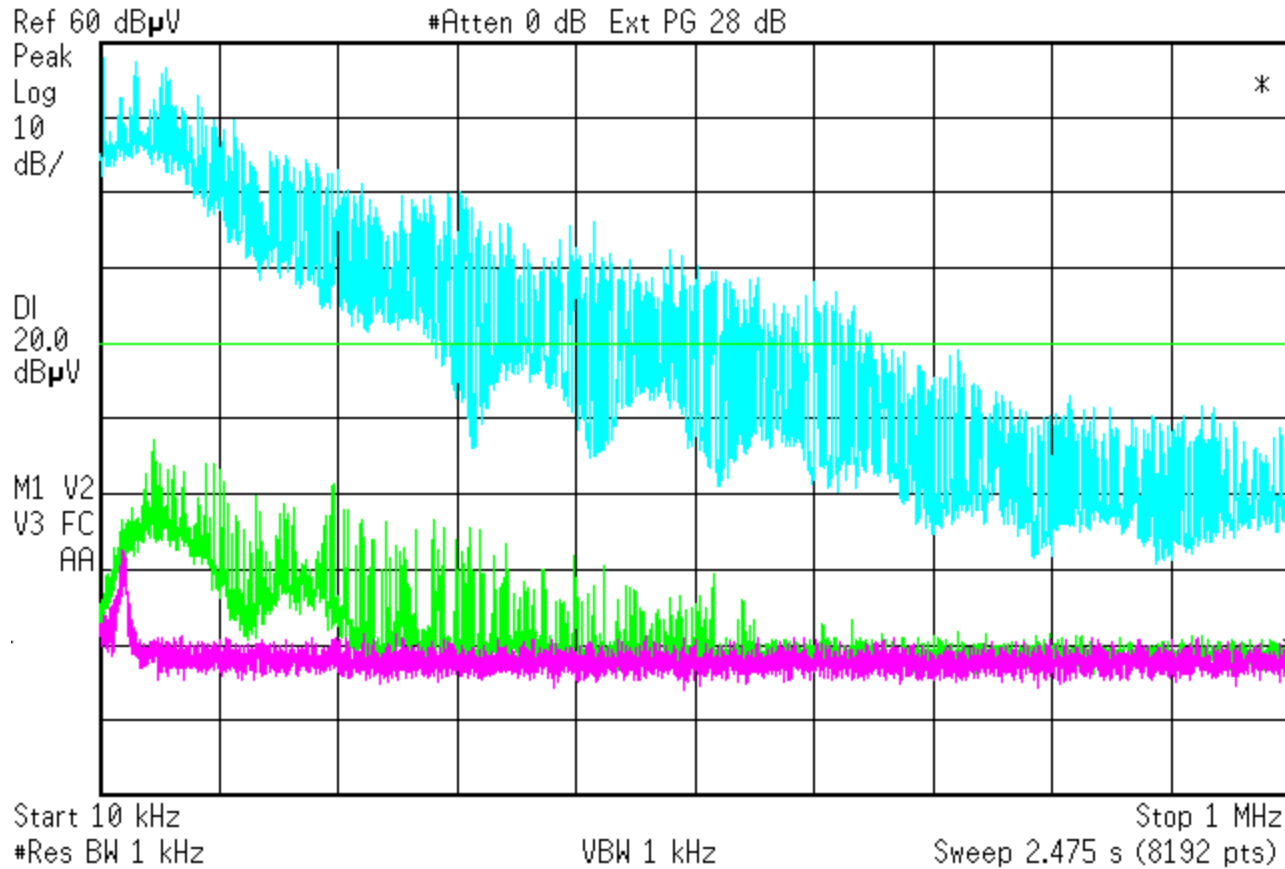
Common Mode Current and Driven "Pair to Pair" Mode Current 102 meter CAT-5, On/Off discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

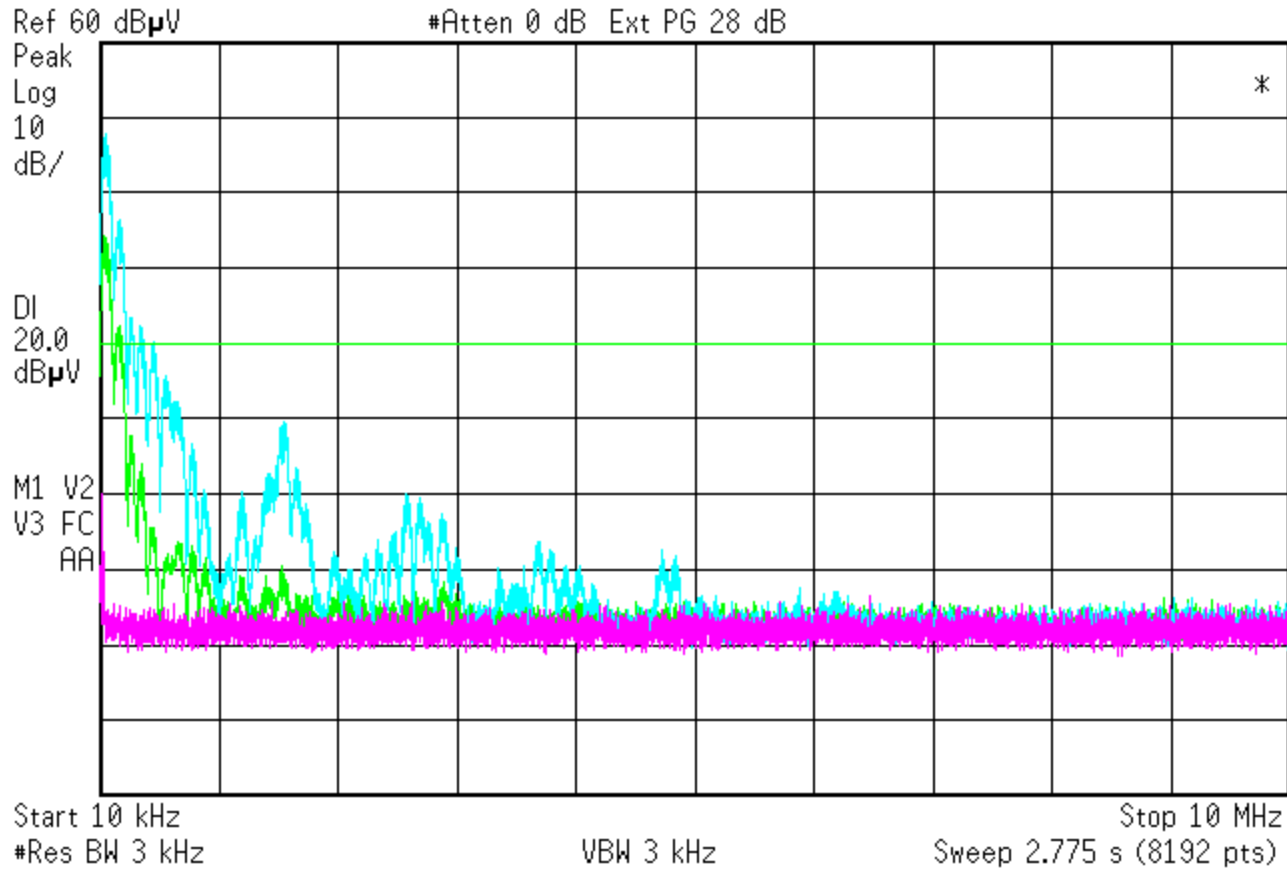
Driven and Unused "Pair to Pair" Mode Current 102 meter CAT-5, On/Off discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

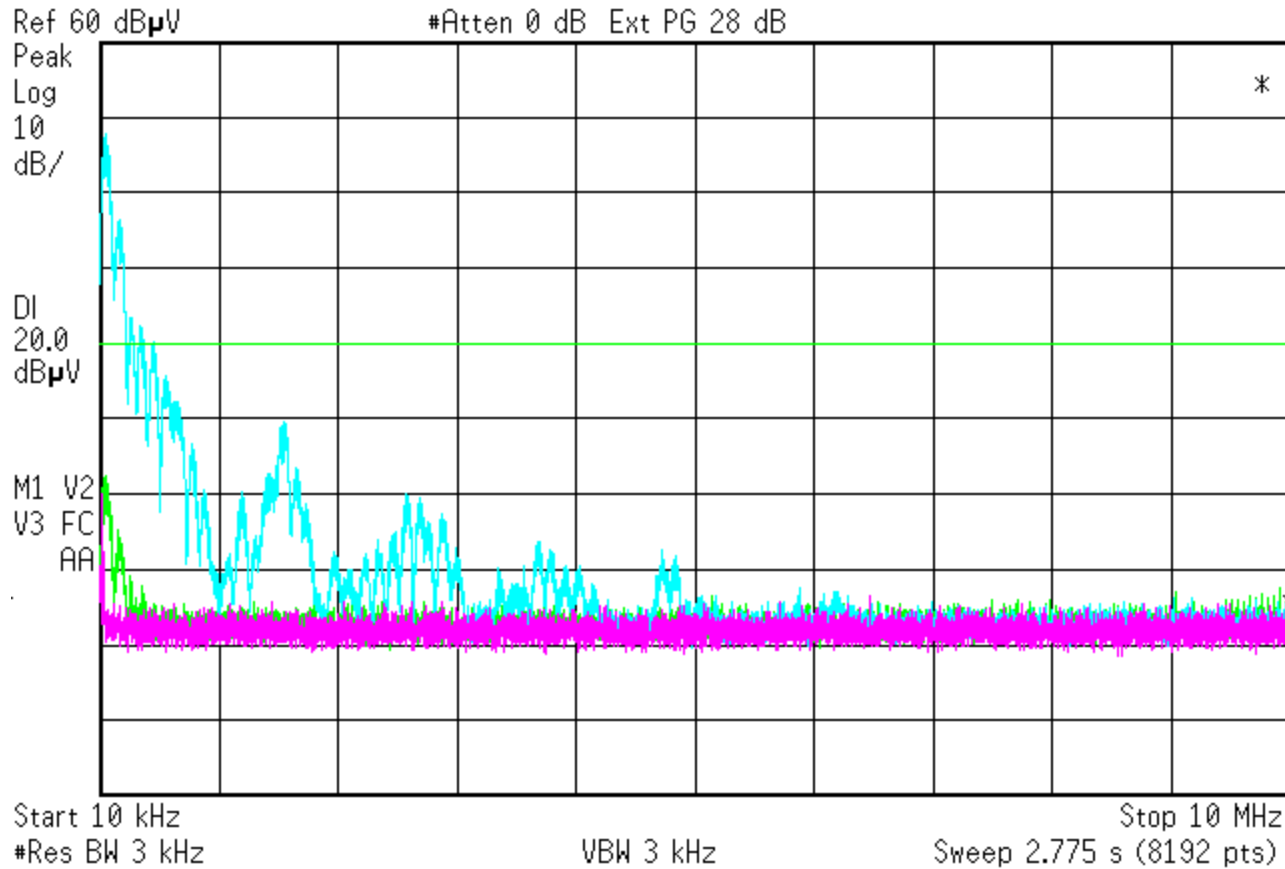
Common Mode Current and Driven "Pair to Pair" Mode Current 102 meter CAT-5, On/Off discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

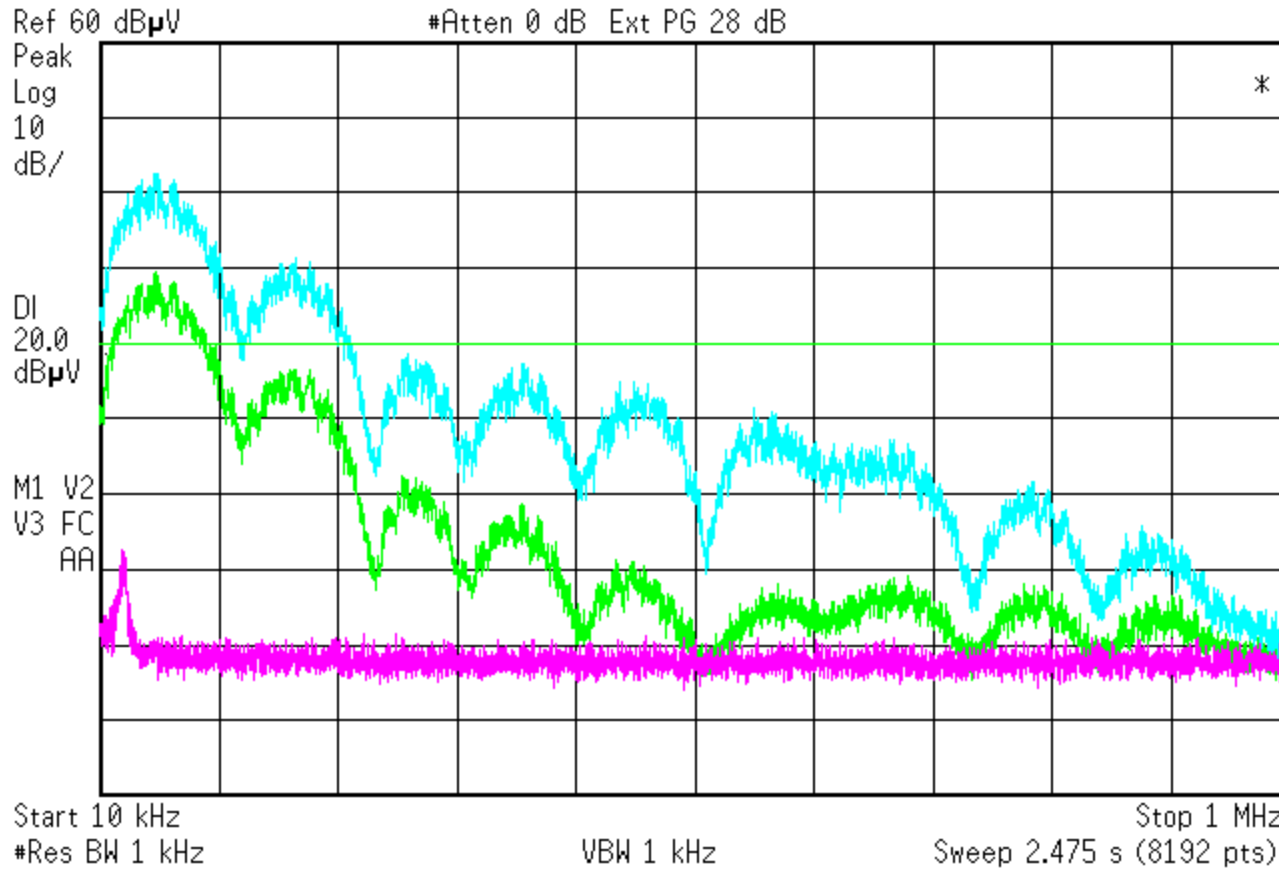
Driven and Unused "Pair to Pair" Mode Current 102 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

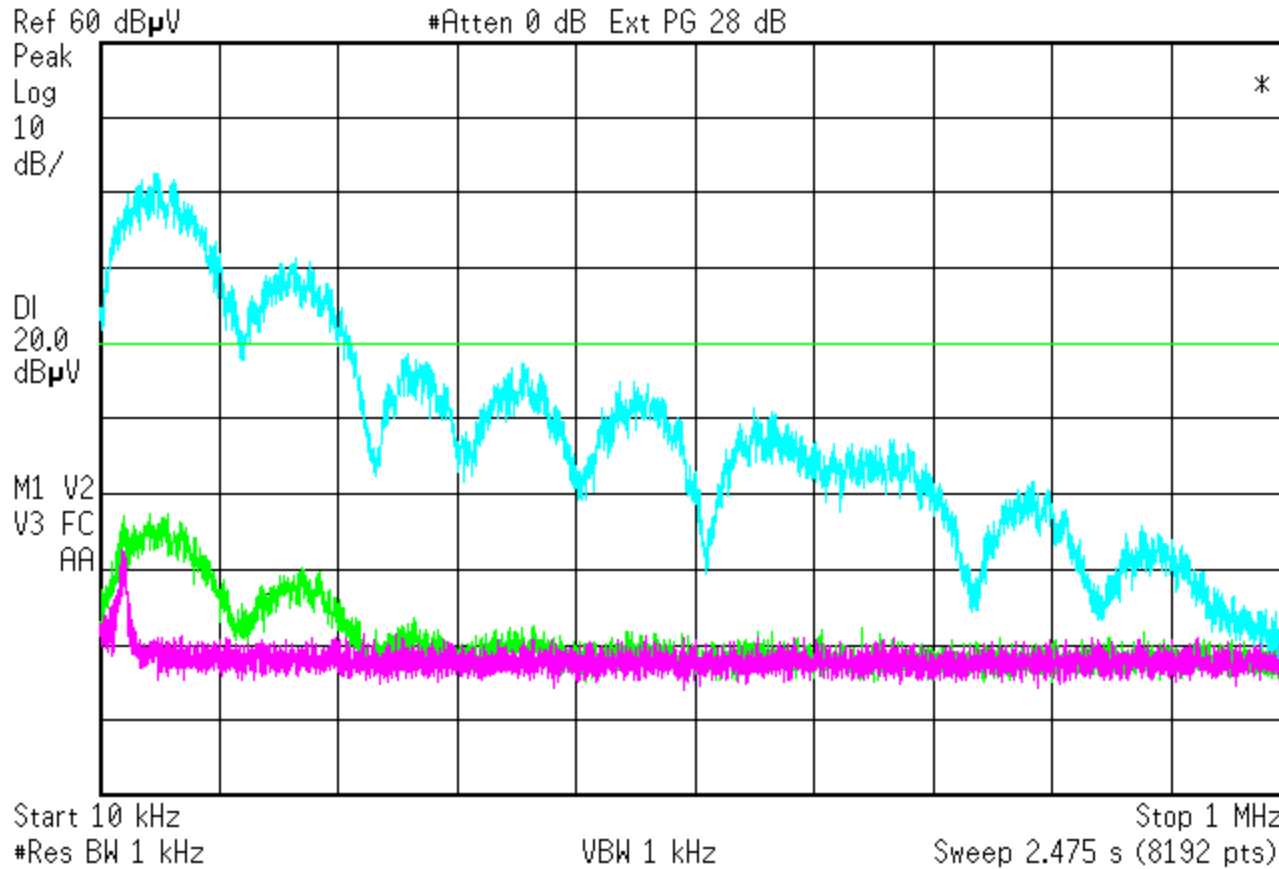
Common Mode Current and Driven "Pair to Pair" Mode Current 102 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

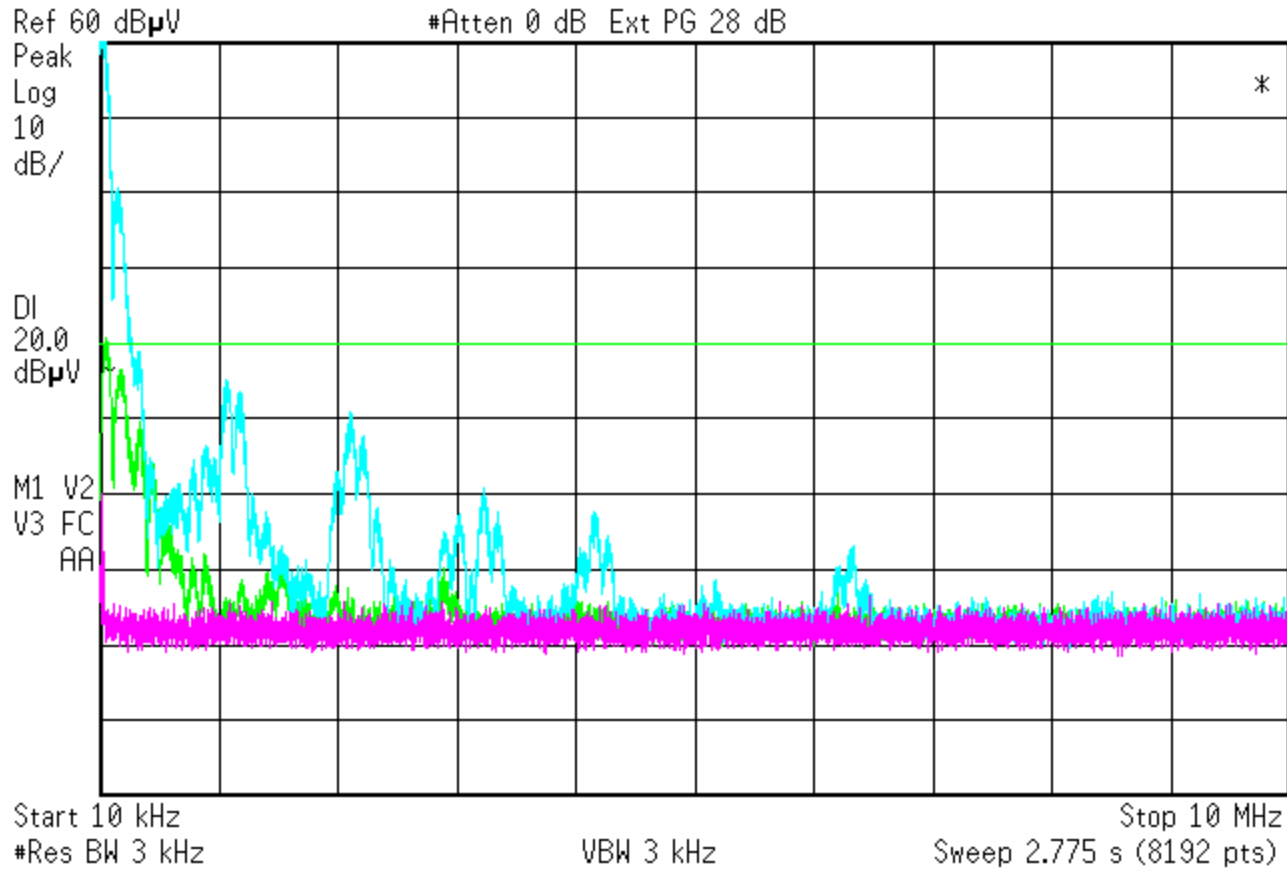
Driven and Unused "Pair to Pair" Mode Current 102 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

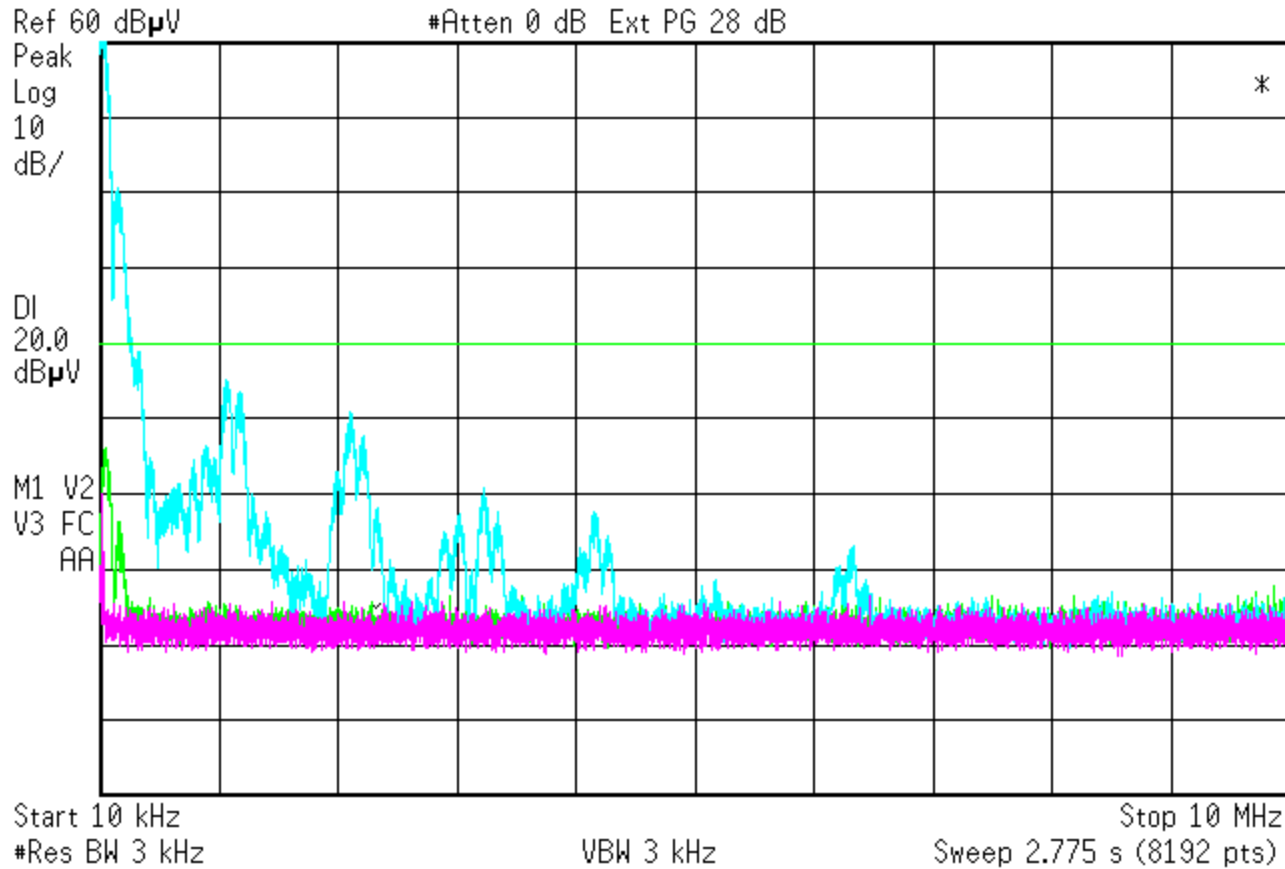
Common Mode Current and Driven "Pair to Pair" Mode Current 102 meter CAT-5, Open Load discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

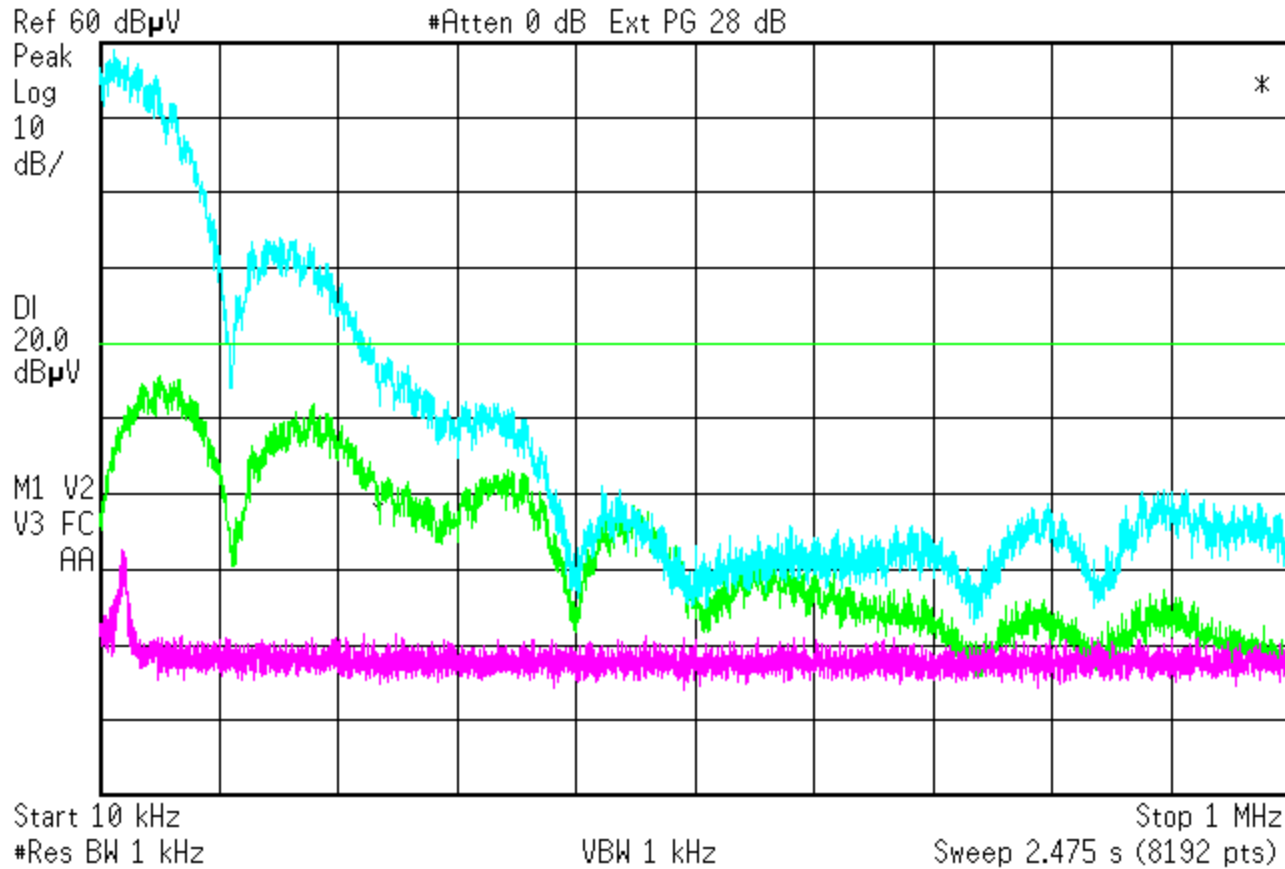
Driven and Unused "Pair to Pair" Mode Current 102 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

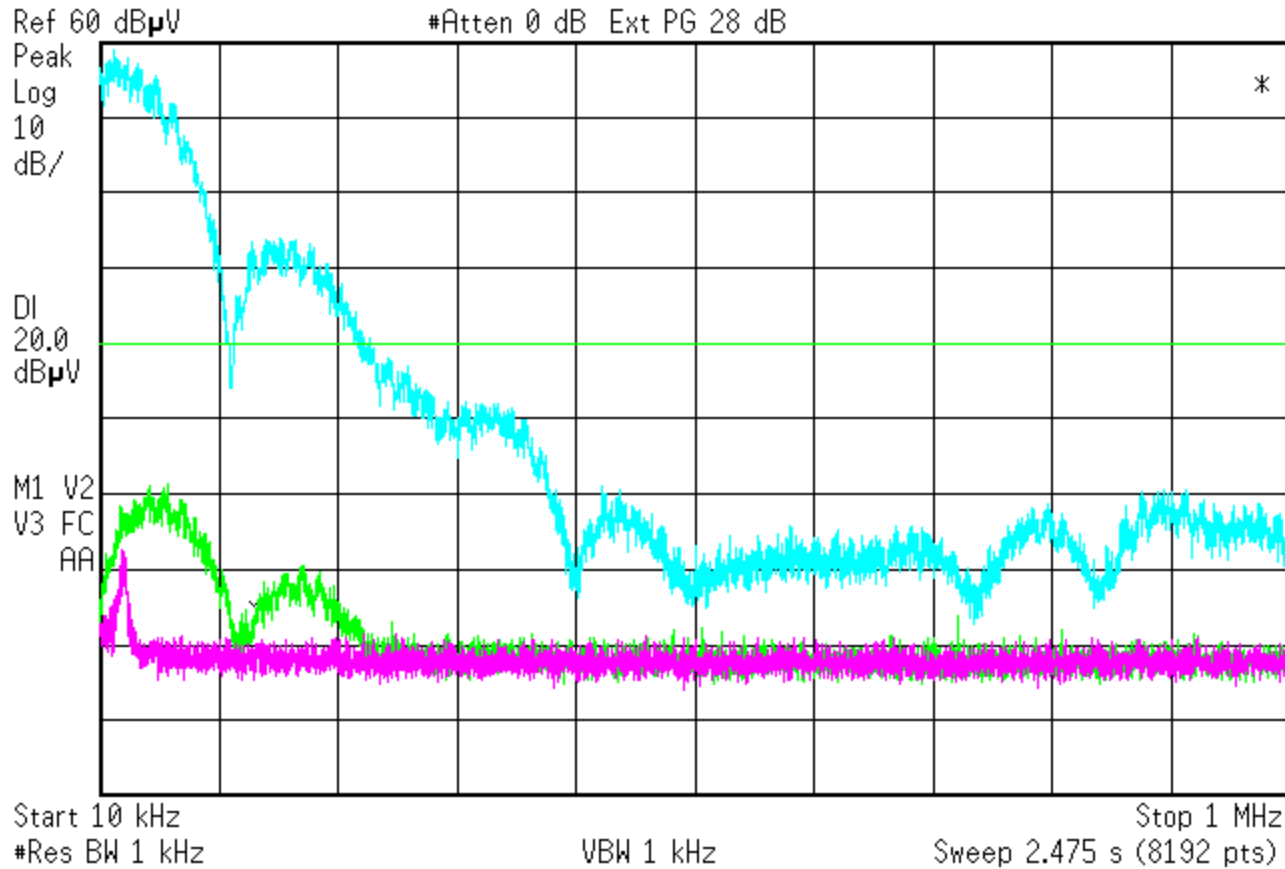
Common Mode Current and Driven "Pair to Pair" Mode Current 102 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
unused pair to pair mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Driven and Unused "Pair to Pair" Mode Current 102 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)



102 meter CAT-5, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

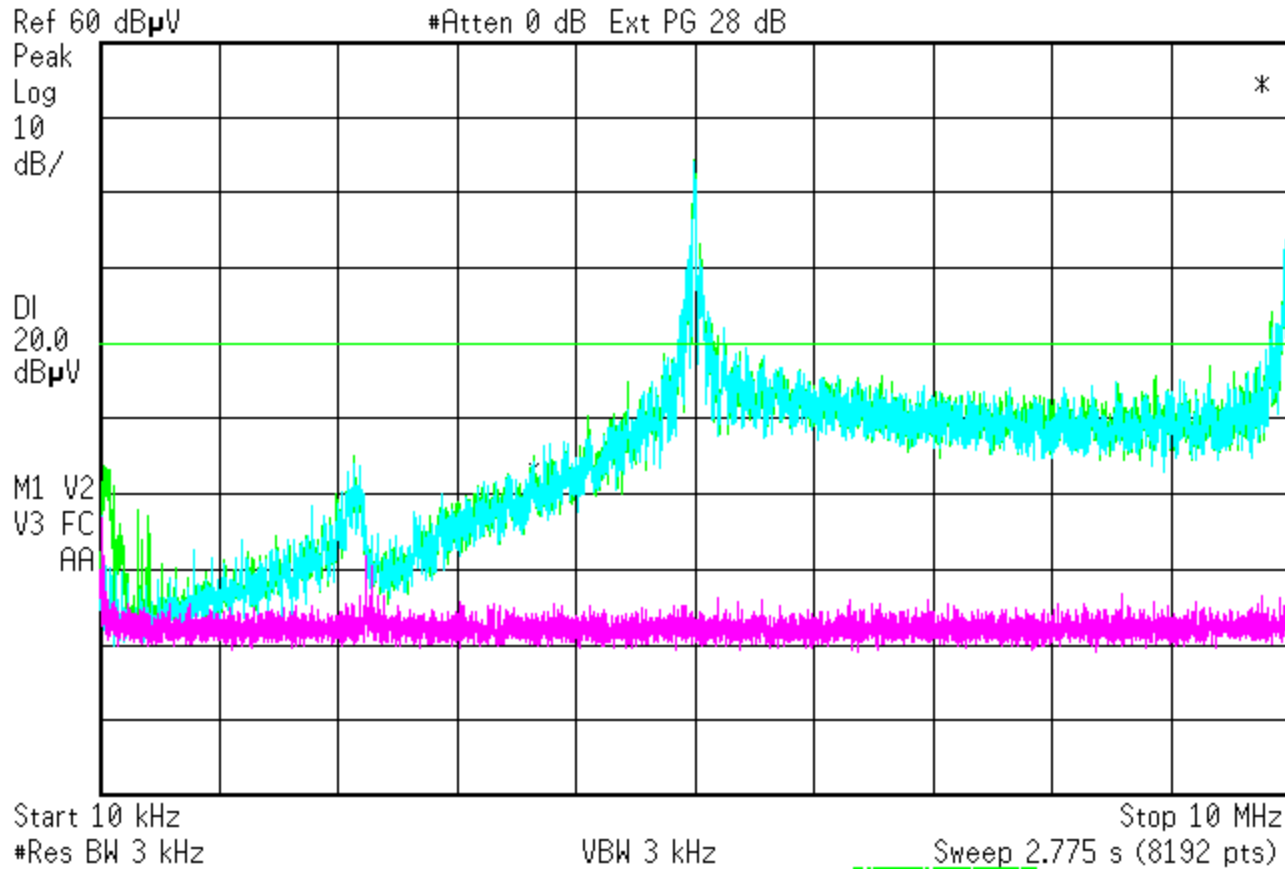
Primary driving pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 102 meter CAT-5, Shorted Load discovery, (0 dBuA = 0 dBuV)

CAT-3 Cable Tests

10Base-T Traffic,
with and without discovery:

- 1 meter CAT-3
- 10 meter CAT-3
- 100 meter CAT-3

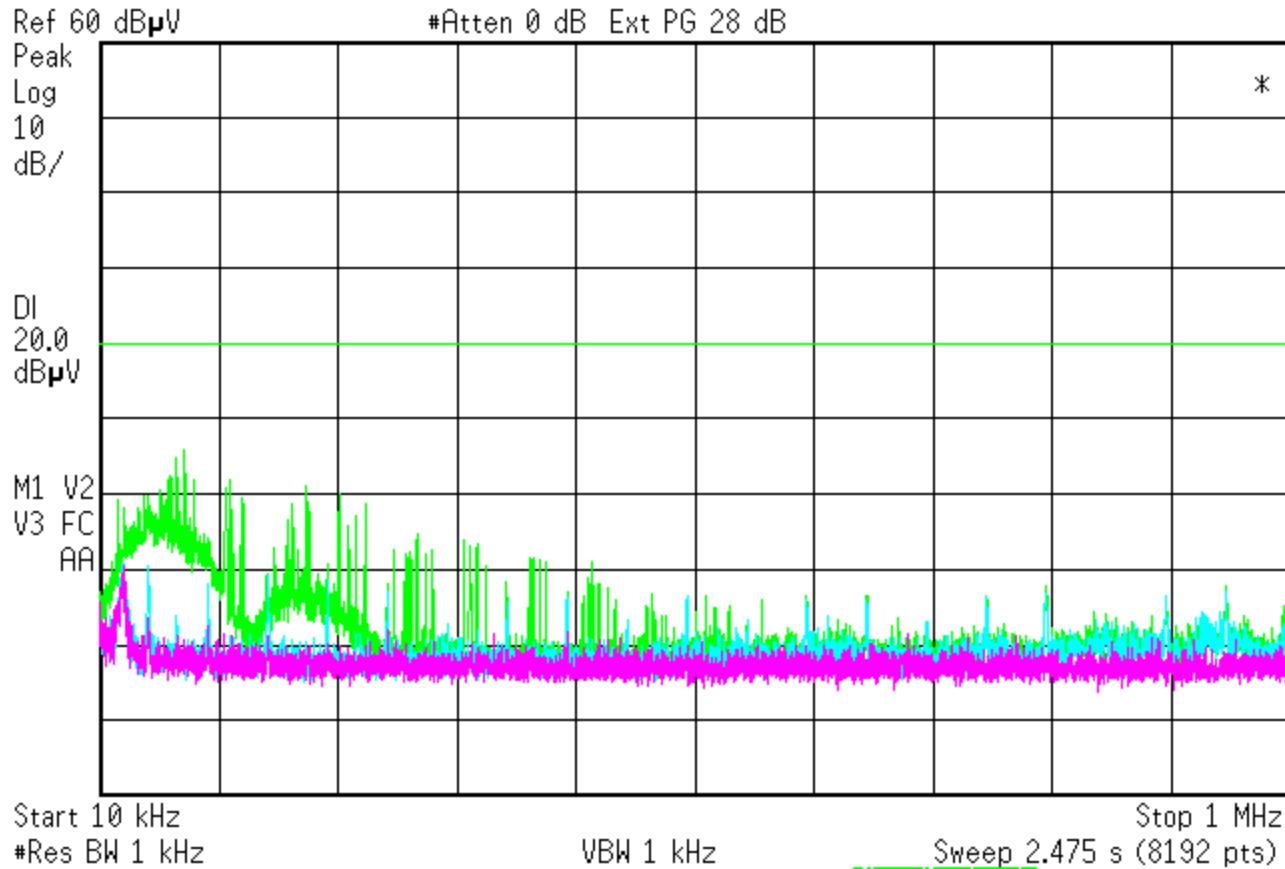


1 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

1 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

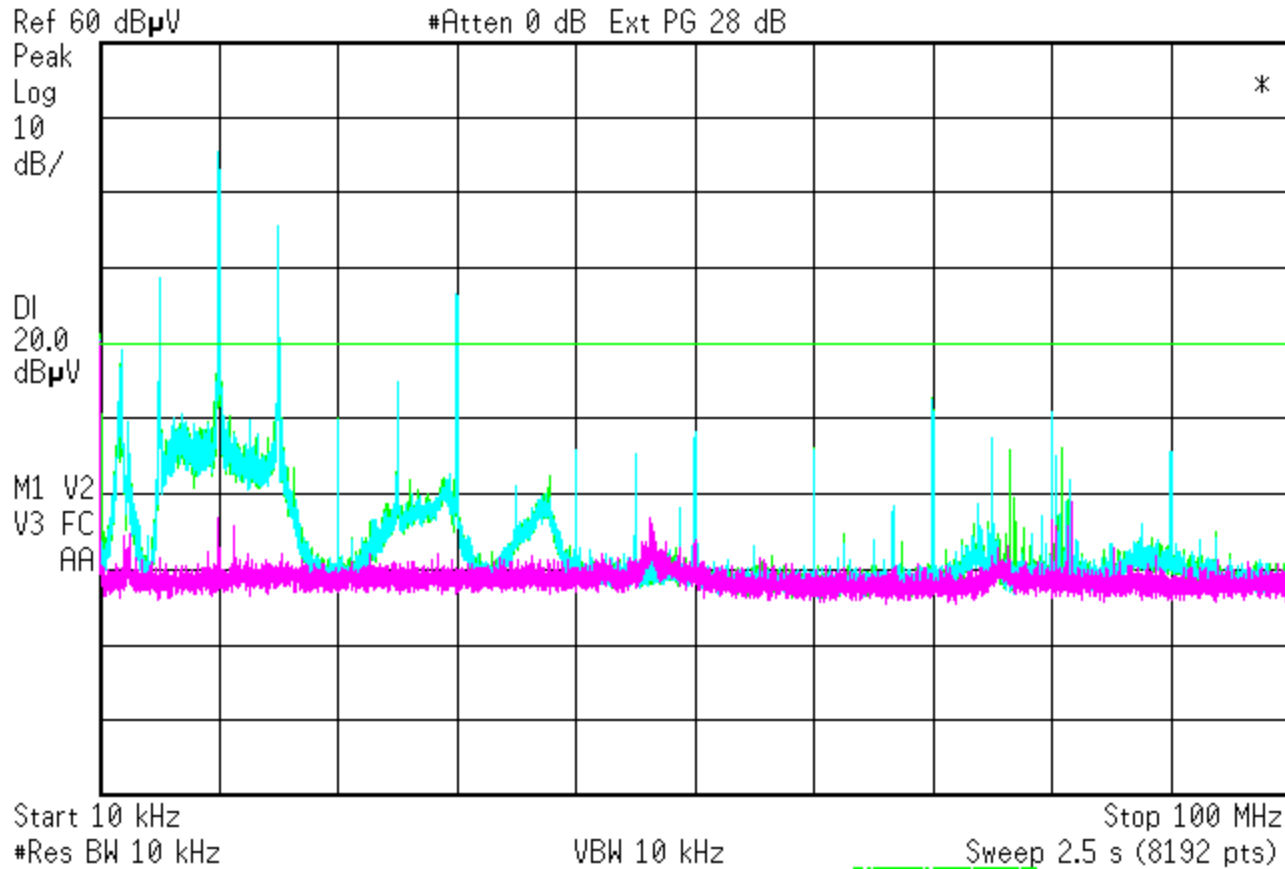


1 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

1 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

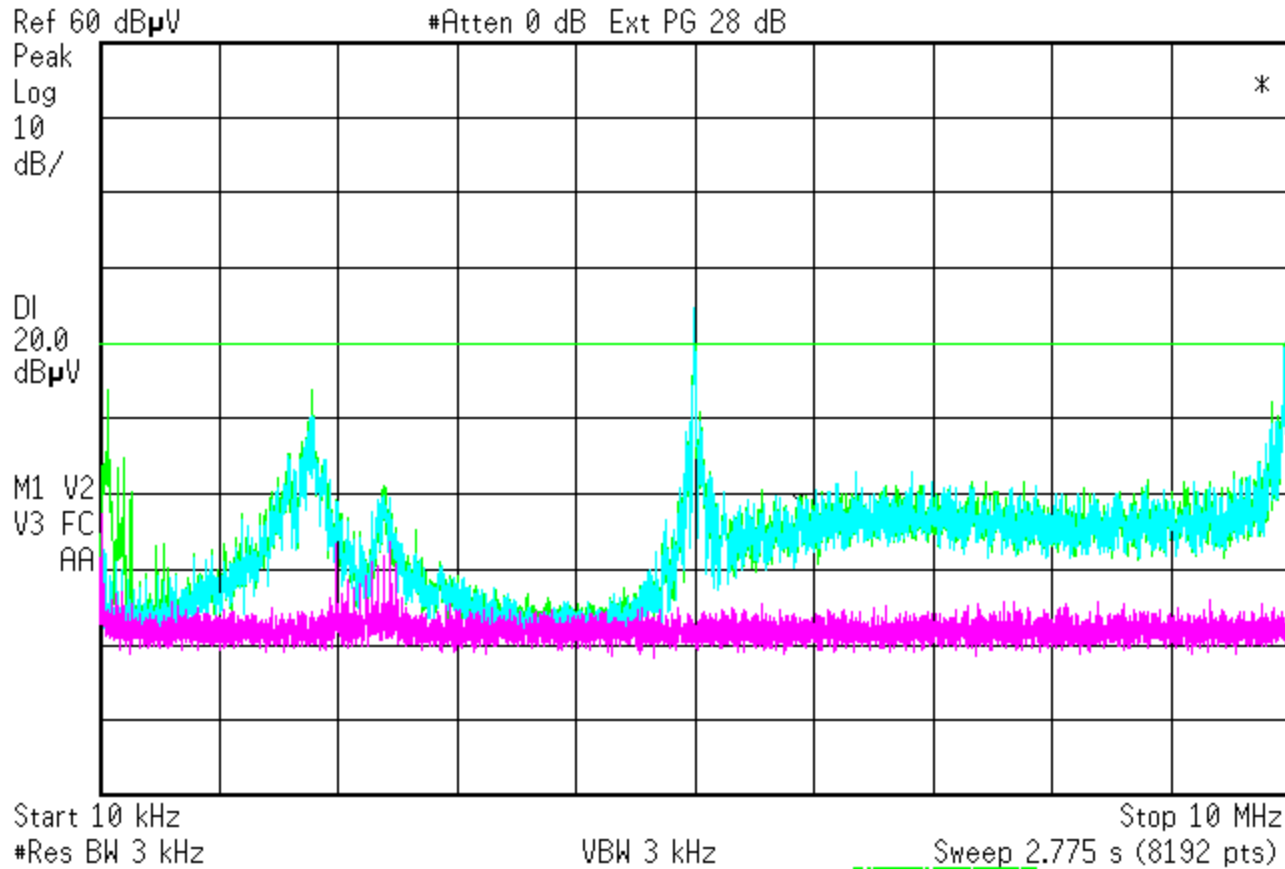


10 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

10 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

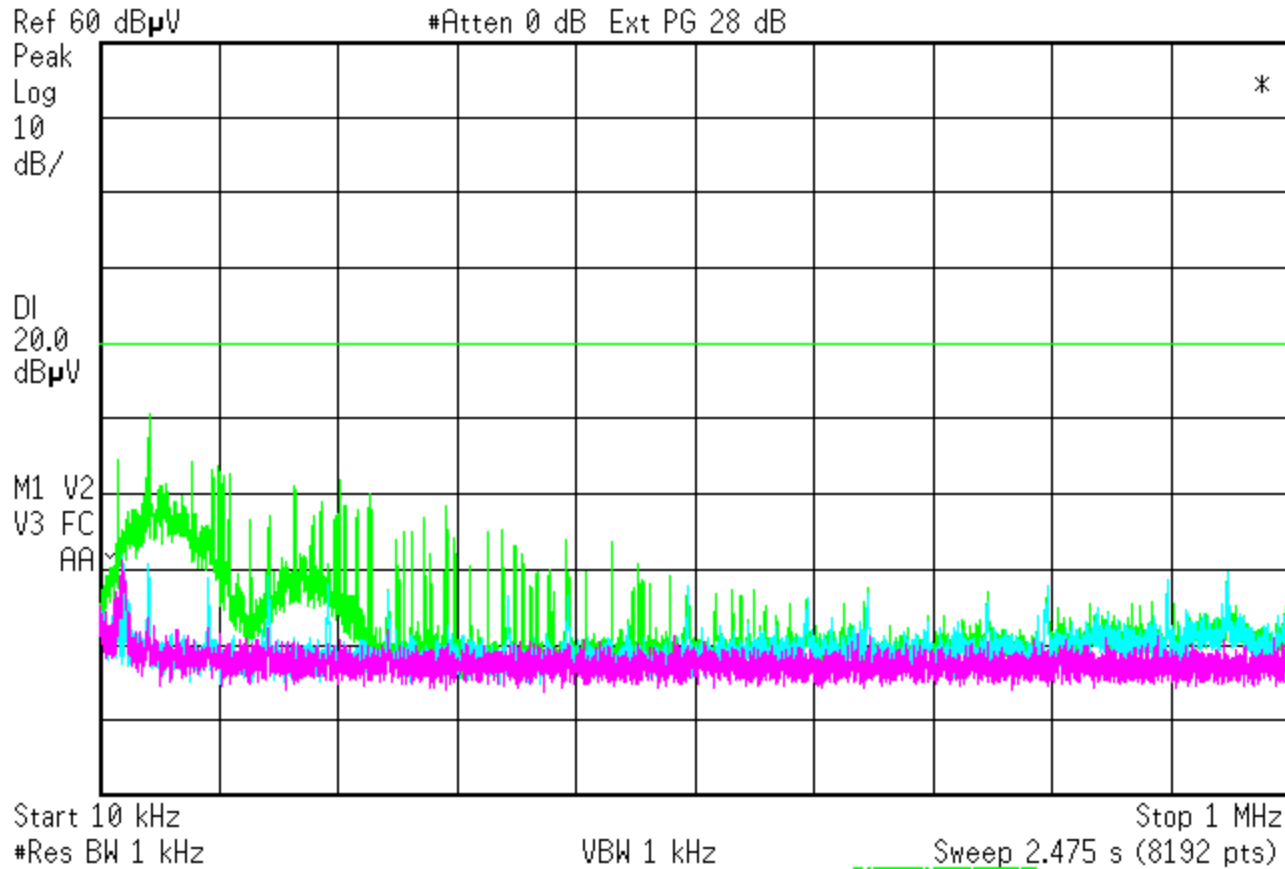


10 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

10 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

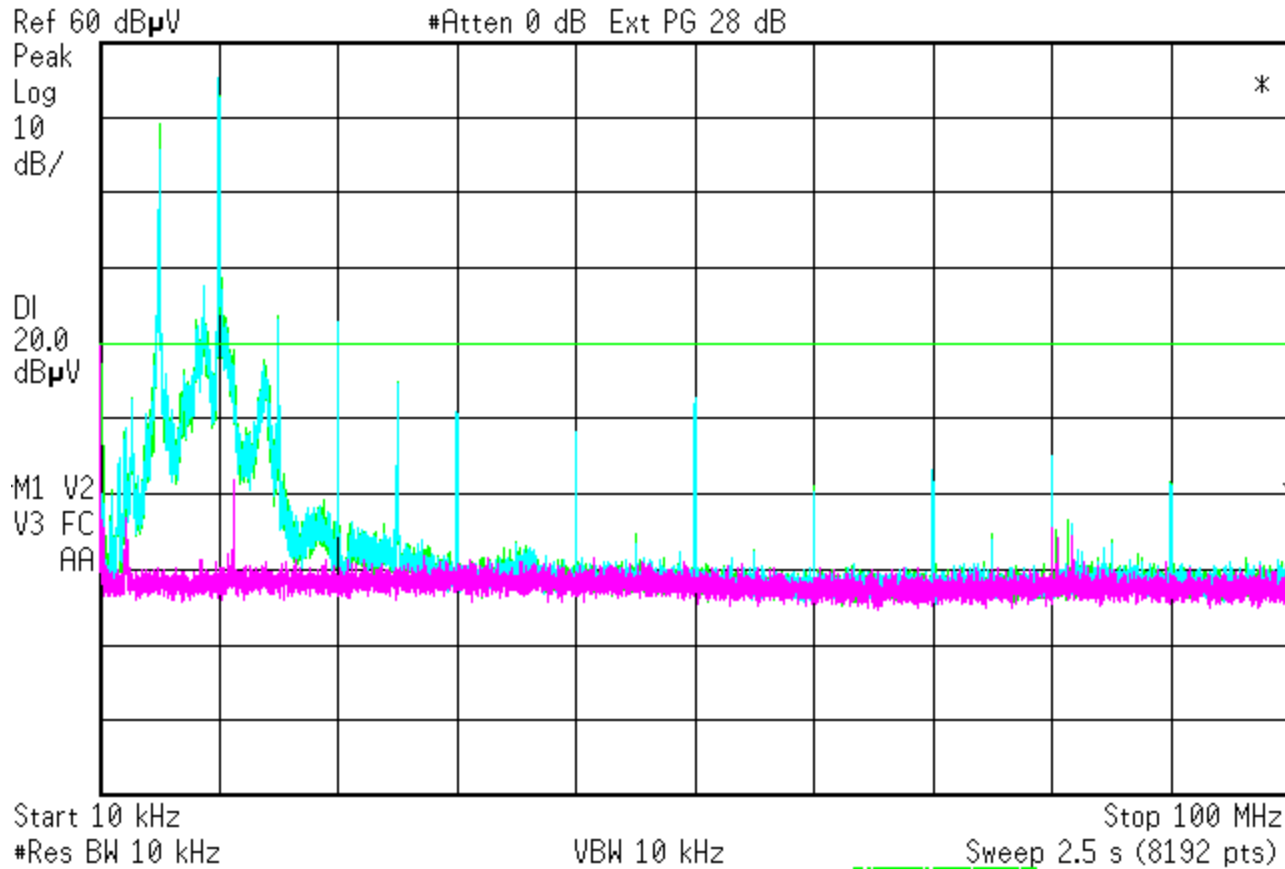


10 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

10 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

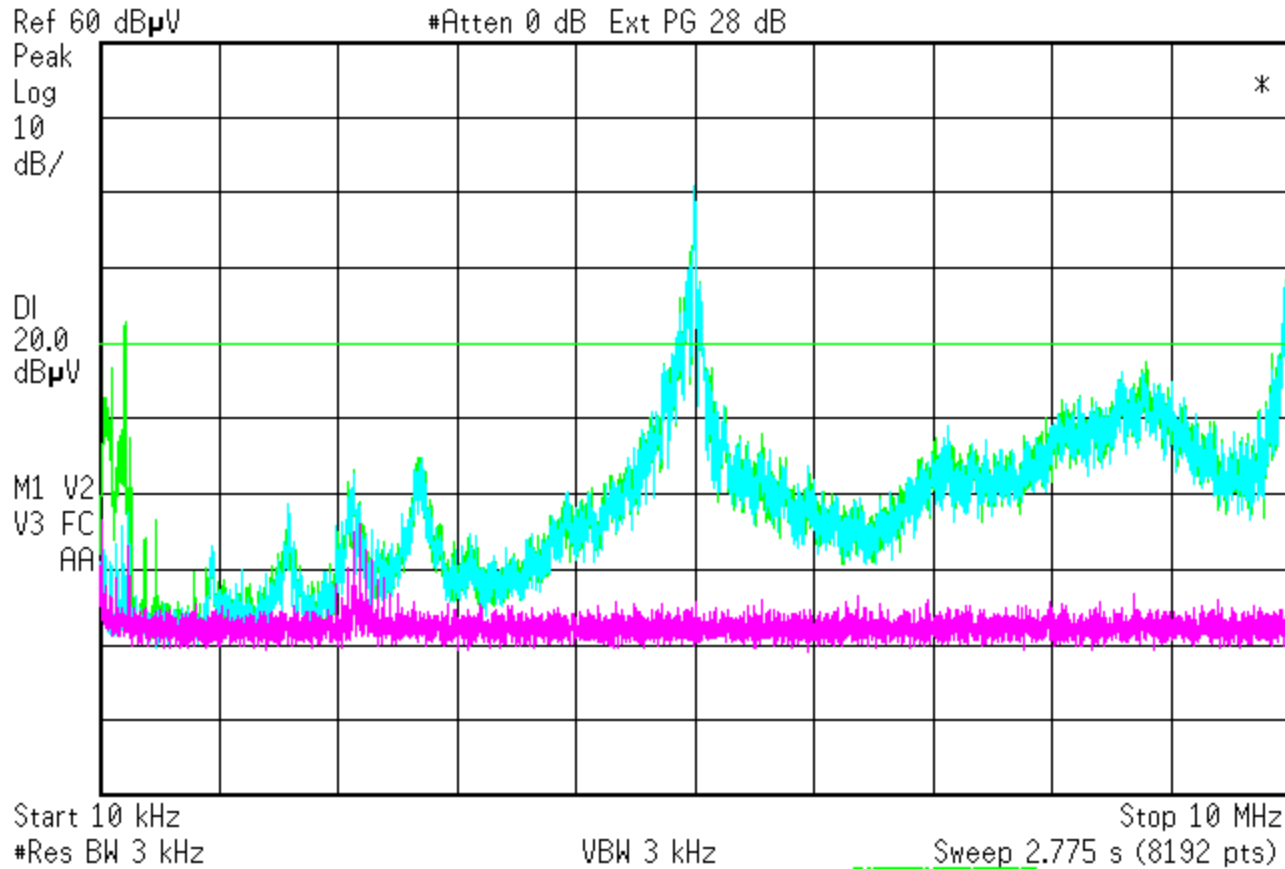


100 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

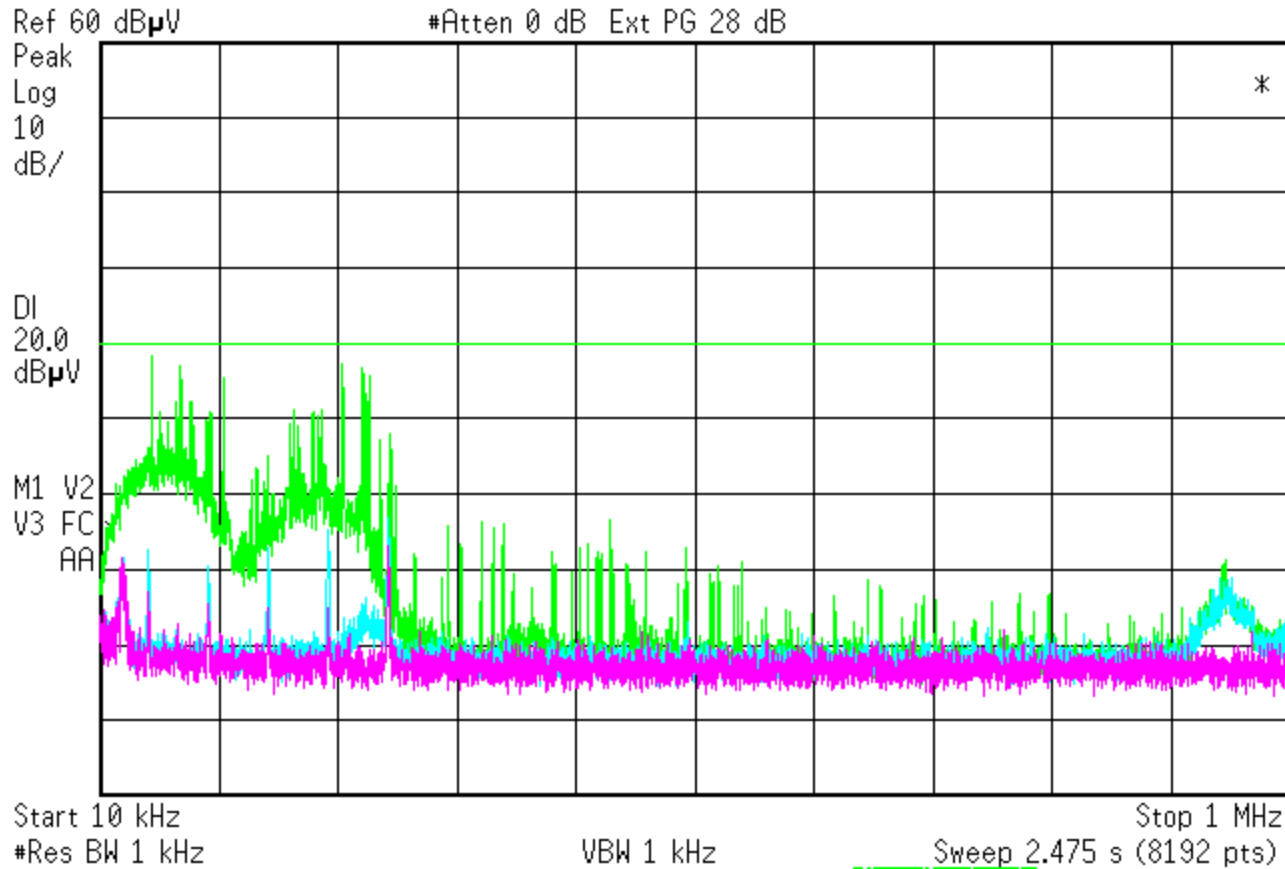


100 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

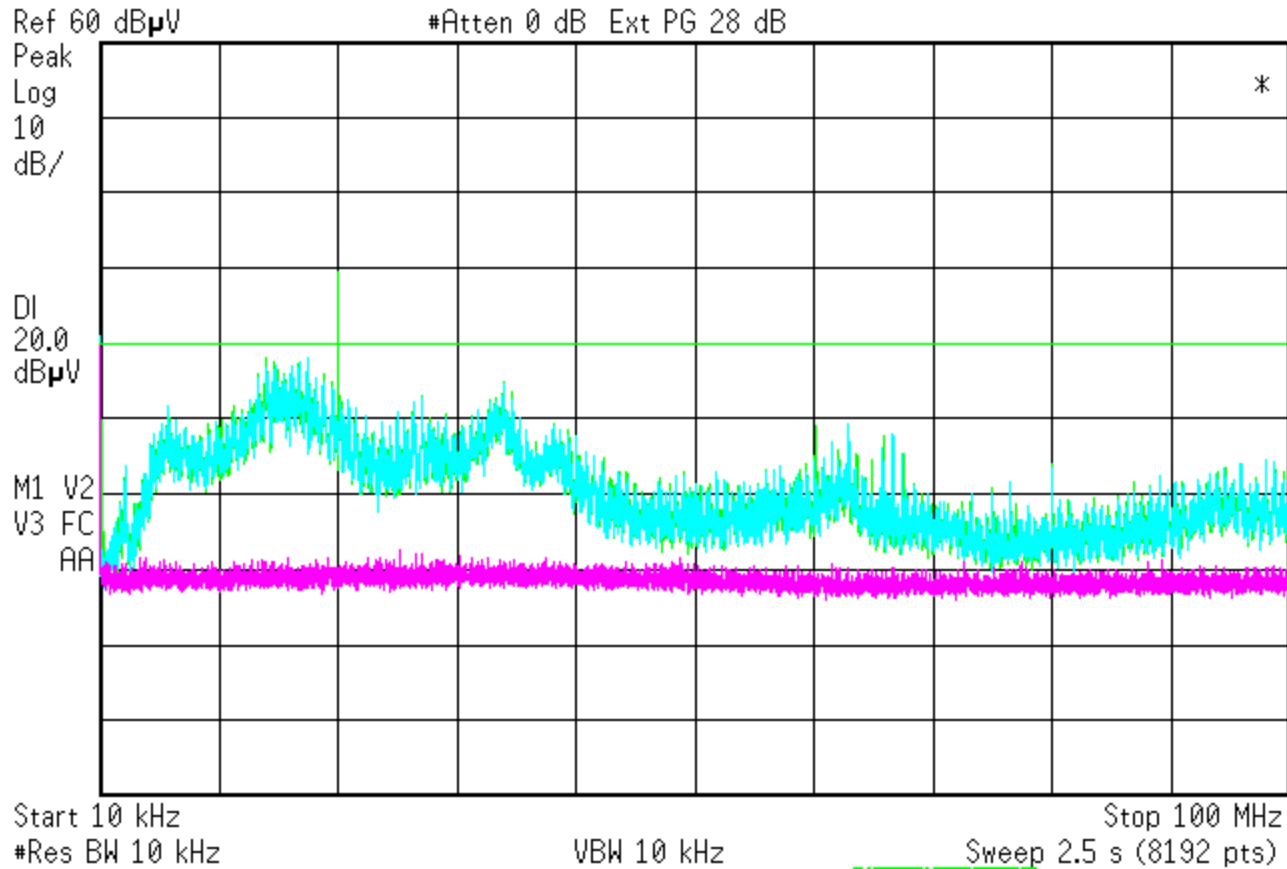
Common Mode Current

100 meter CAT-3, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

CAT-3 Cable Tests (cont)

100Base-T Traffic,
with and without discovery:

- 1 meter CAT-3
- 10 meter CAT-3
- 100 meter CAT-3

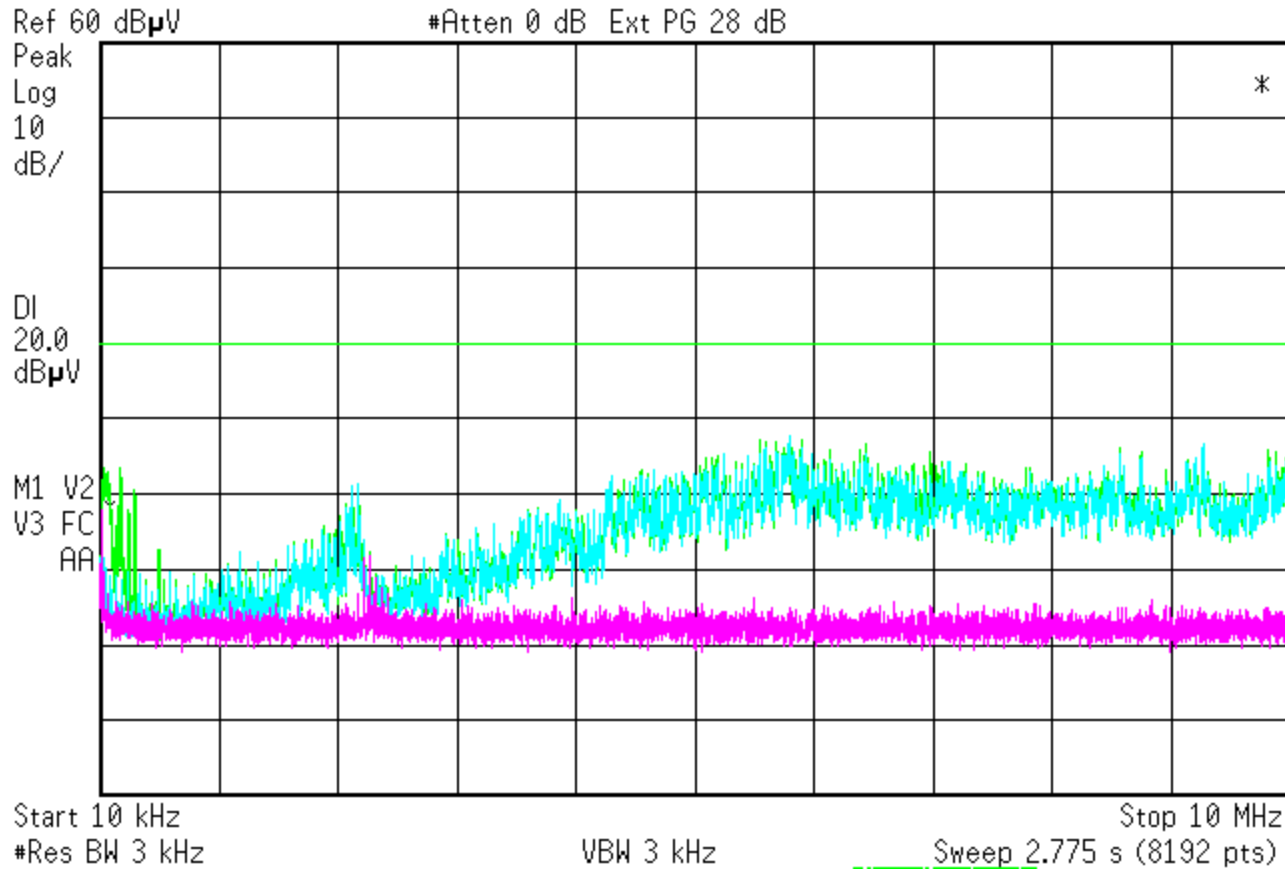


1 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

1 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

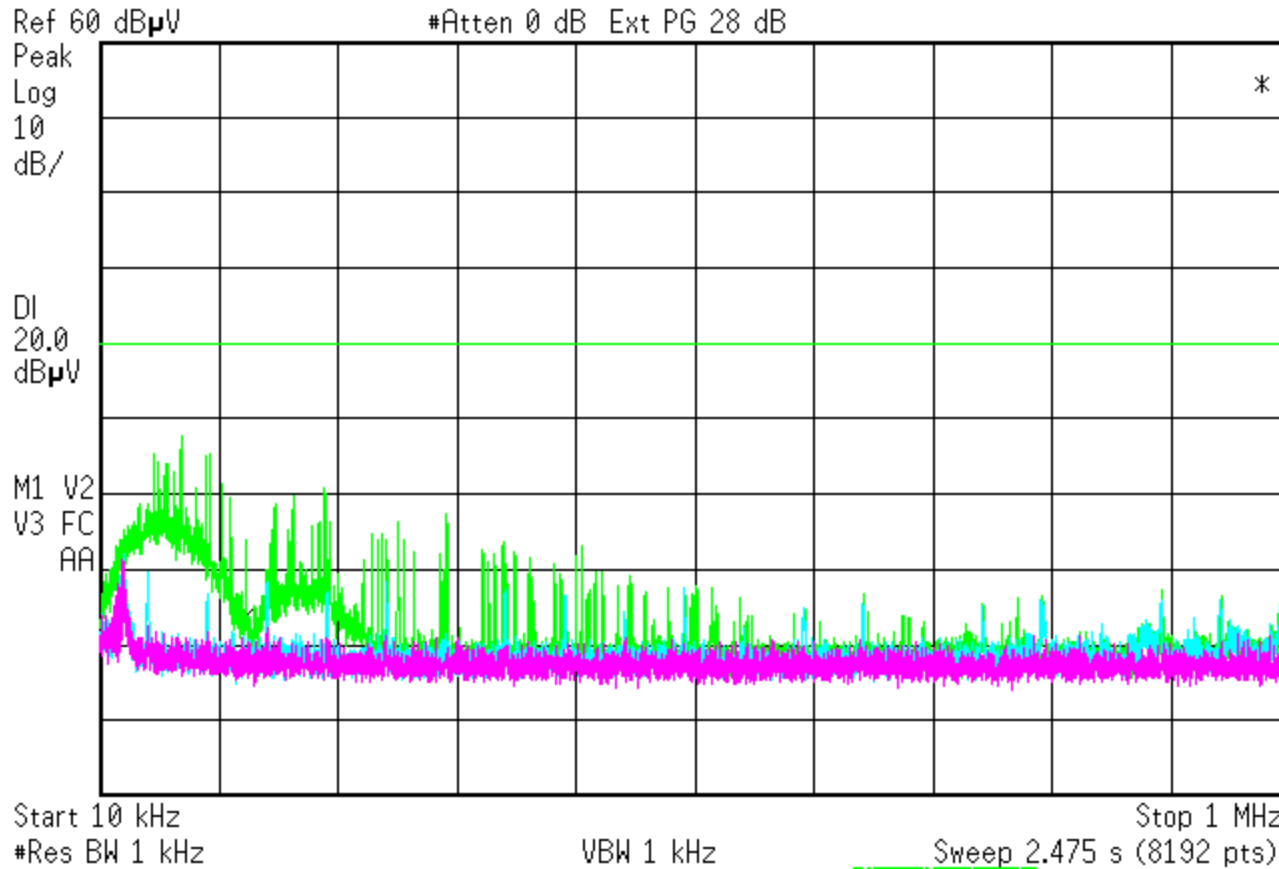


1 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

1 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

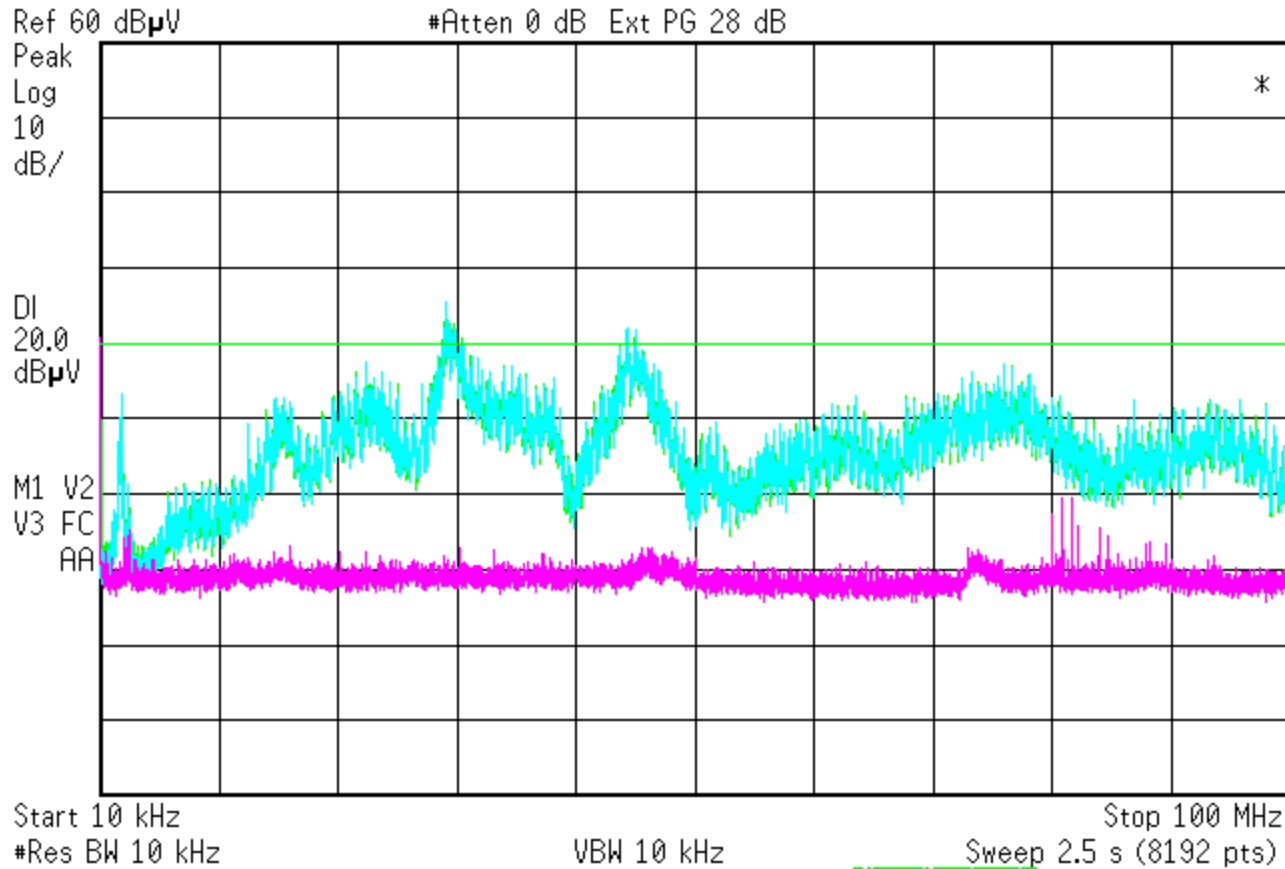


1 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

1 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

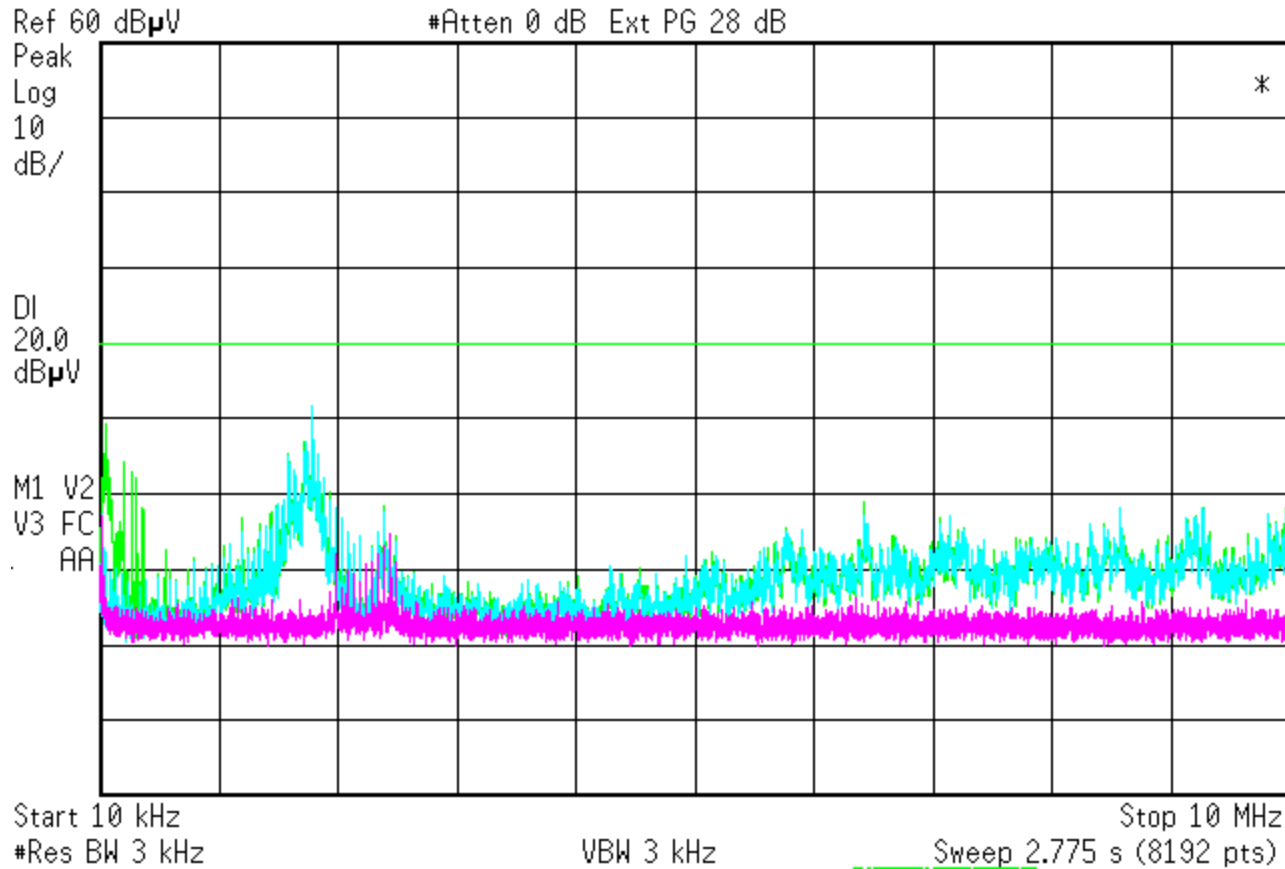


10 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

10 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

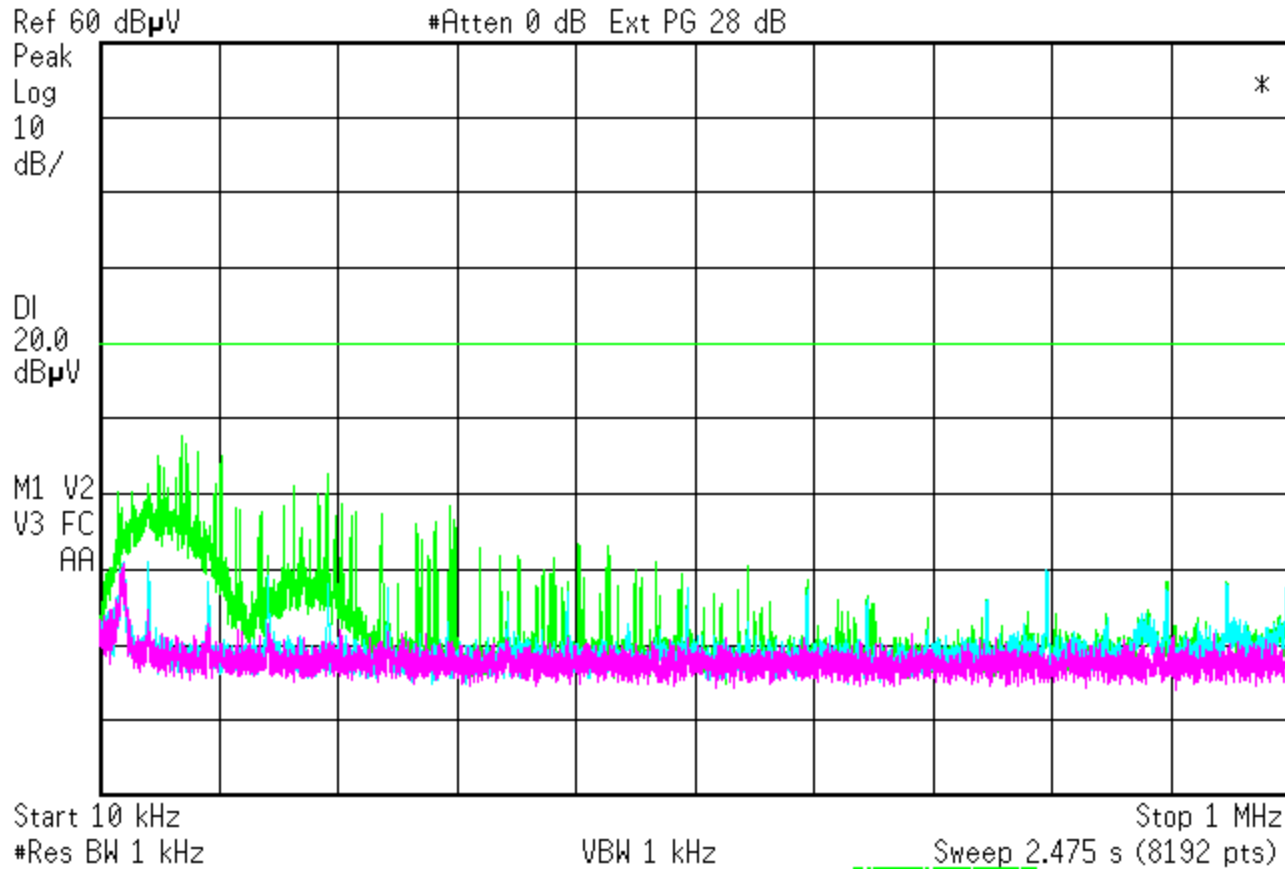


10 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

10 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

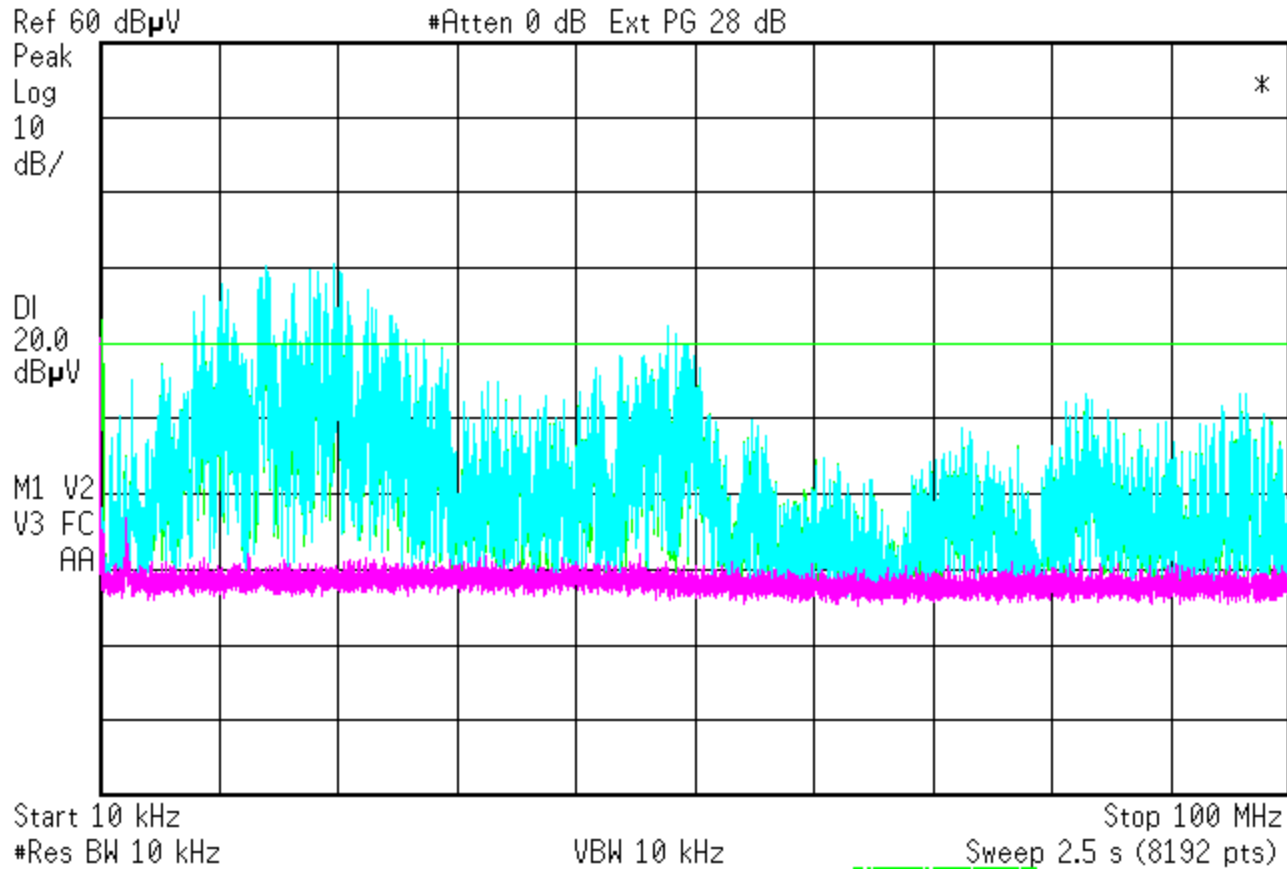


10 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

10 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

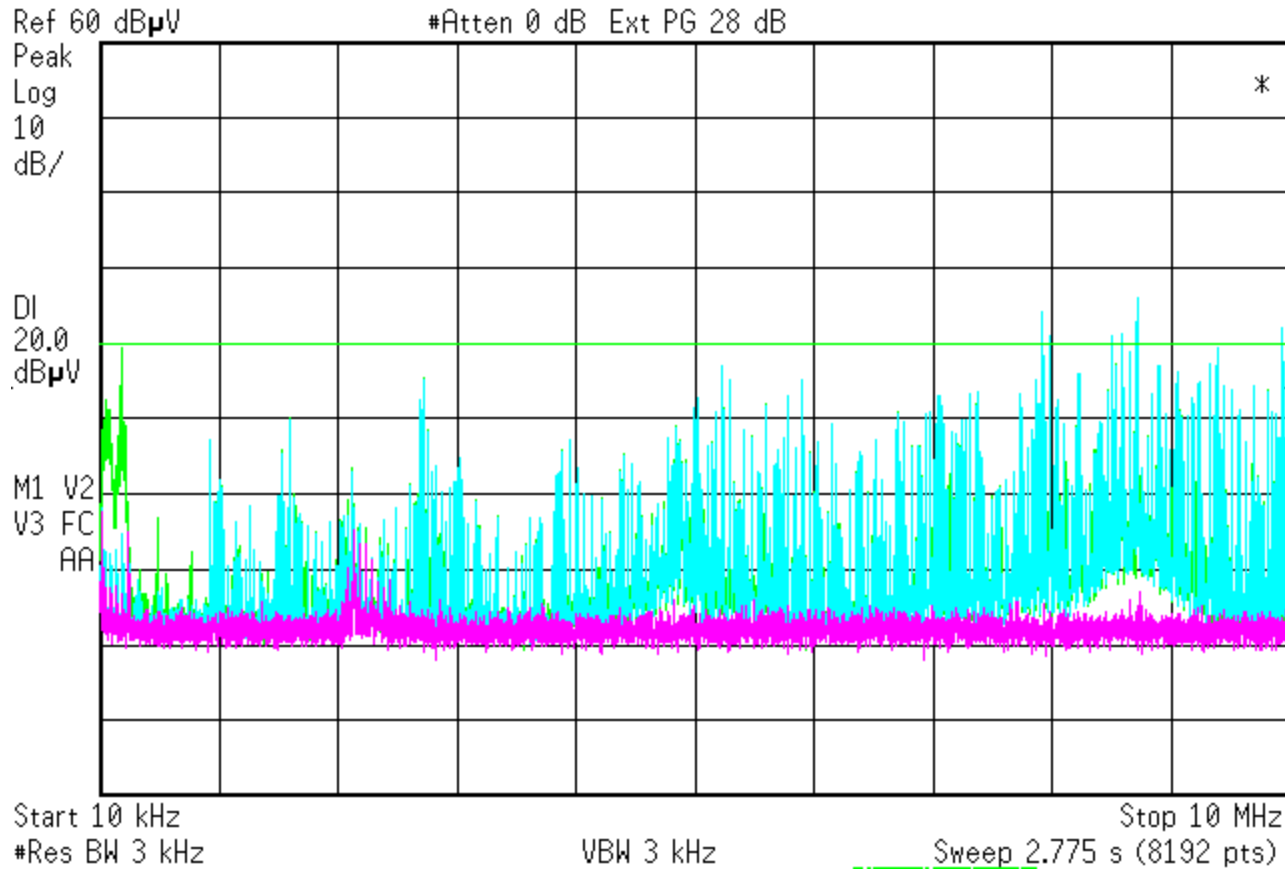


100 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery, No data ever got through the cable...
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

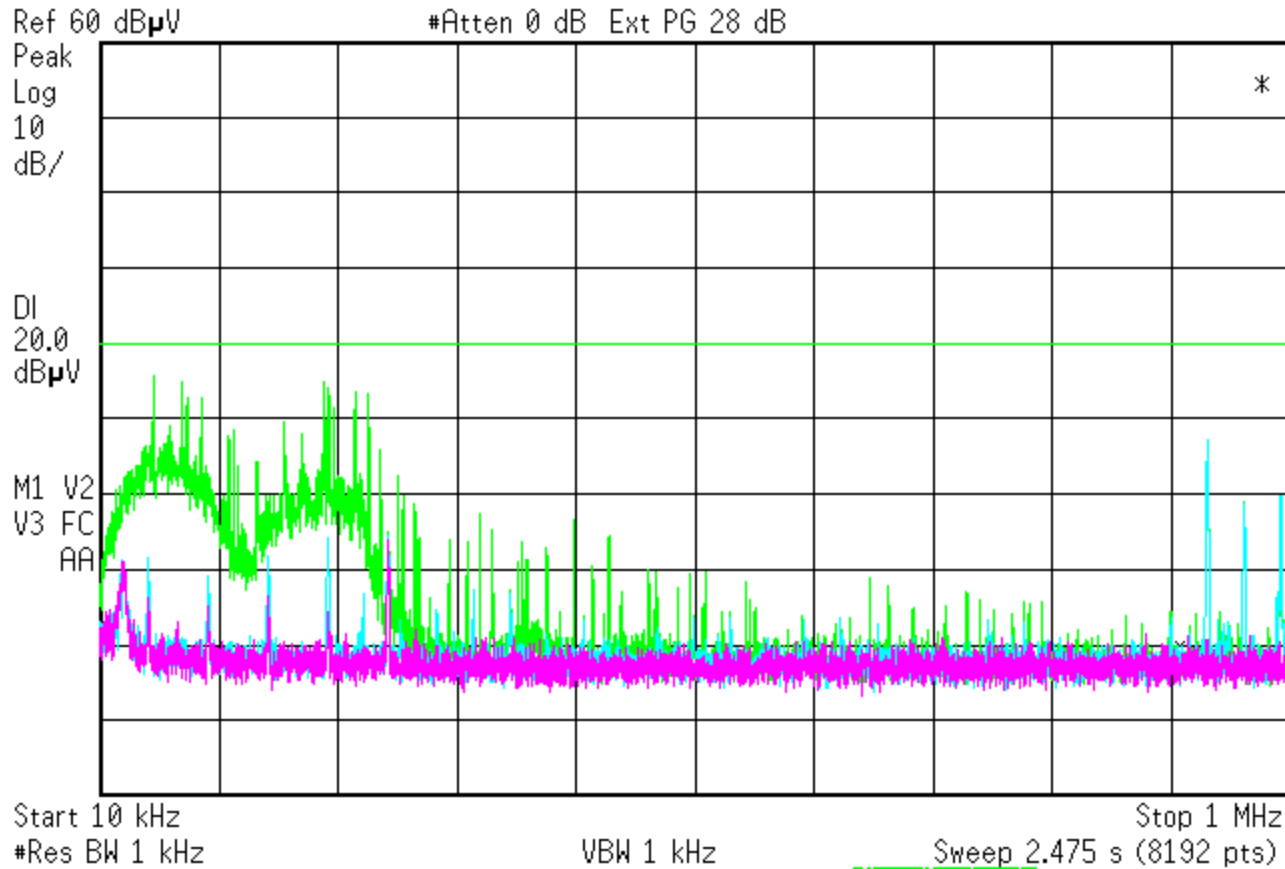


100 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery, No data ever got through the cable...
(each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, 100 Mbps, full duplex, with and without on/off discovery, No data ever got through the cable...
(each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

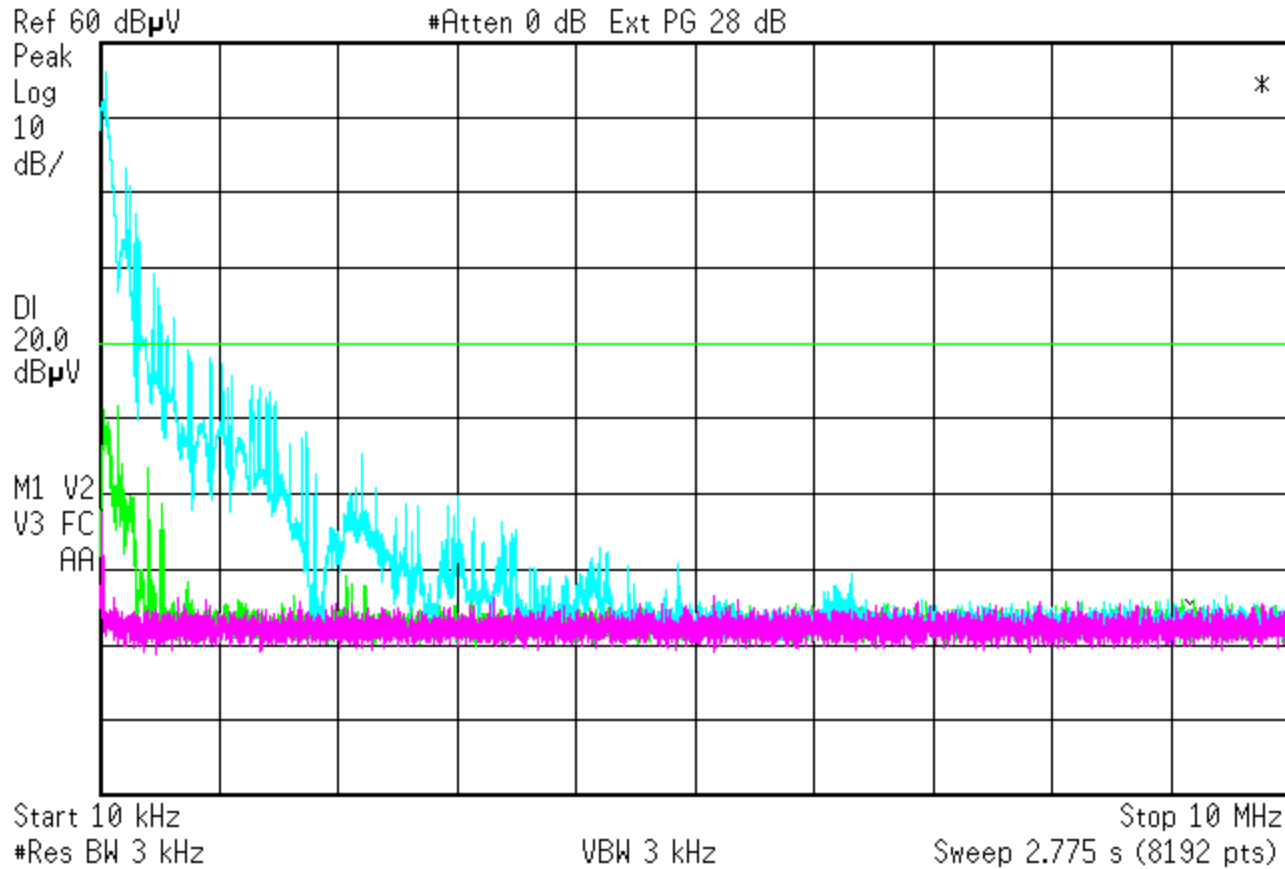
Common Mode Current

100 meter CAT-3, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

CAT-3 Cable Tests, (Cont.)

1 meter CAT-3, Discovery only:

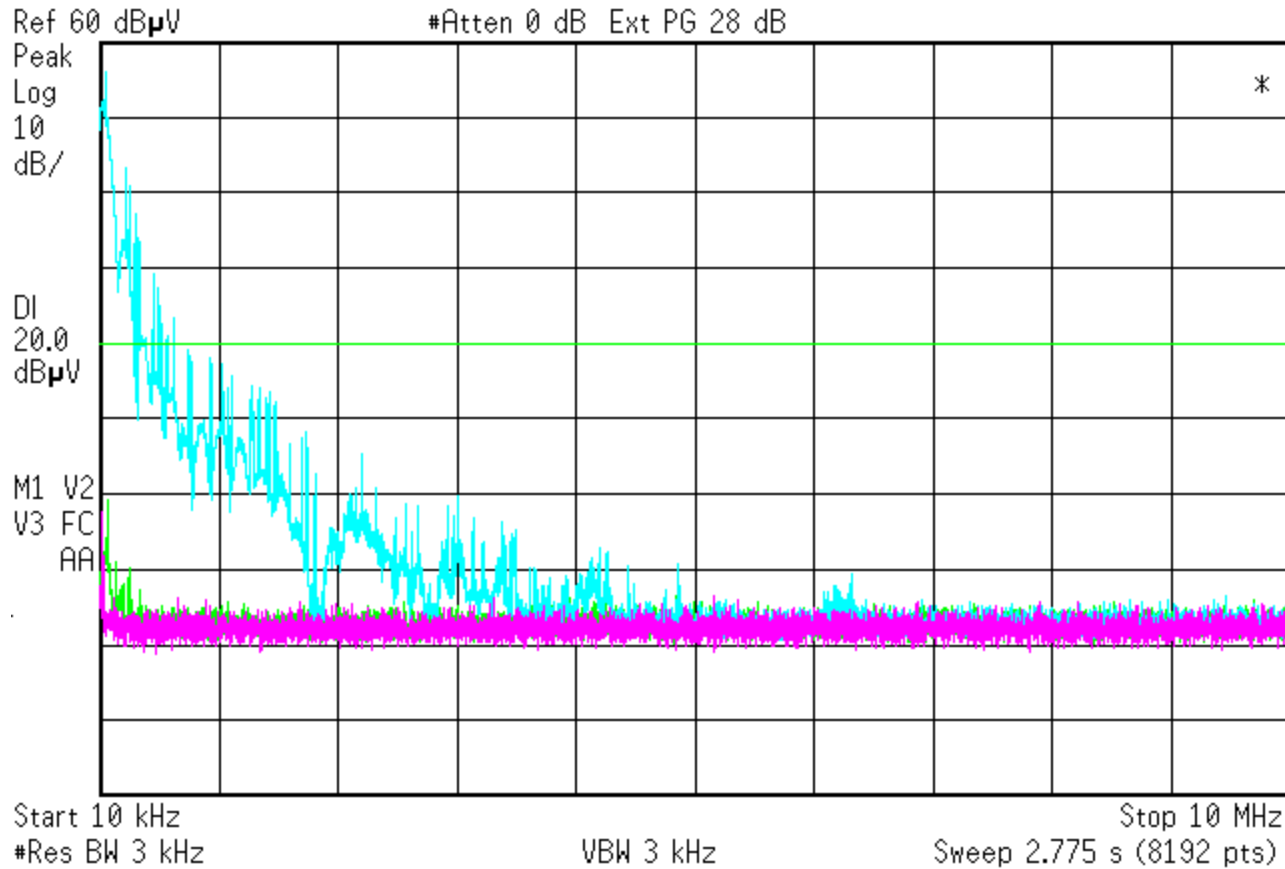
- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



1 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

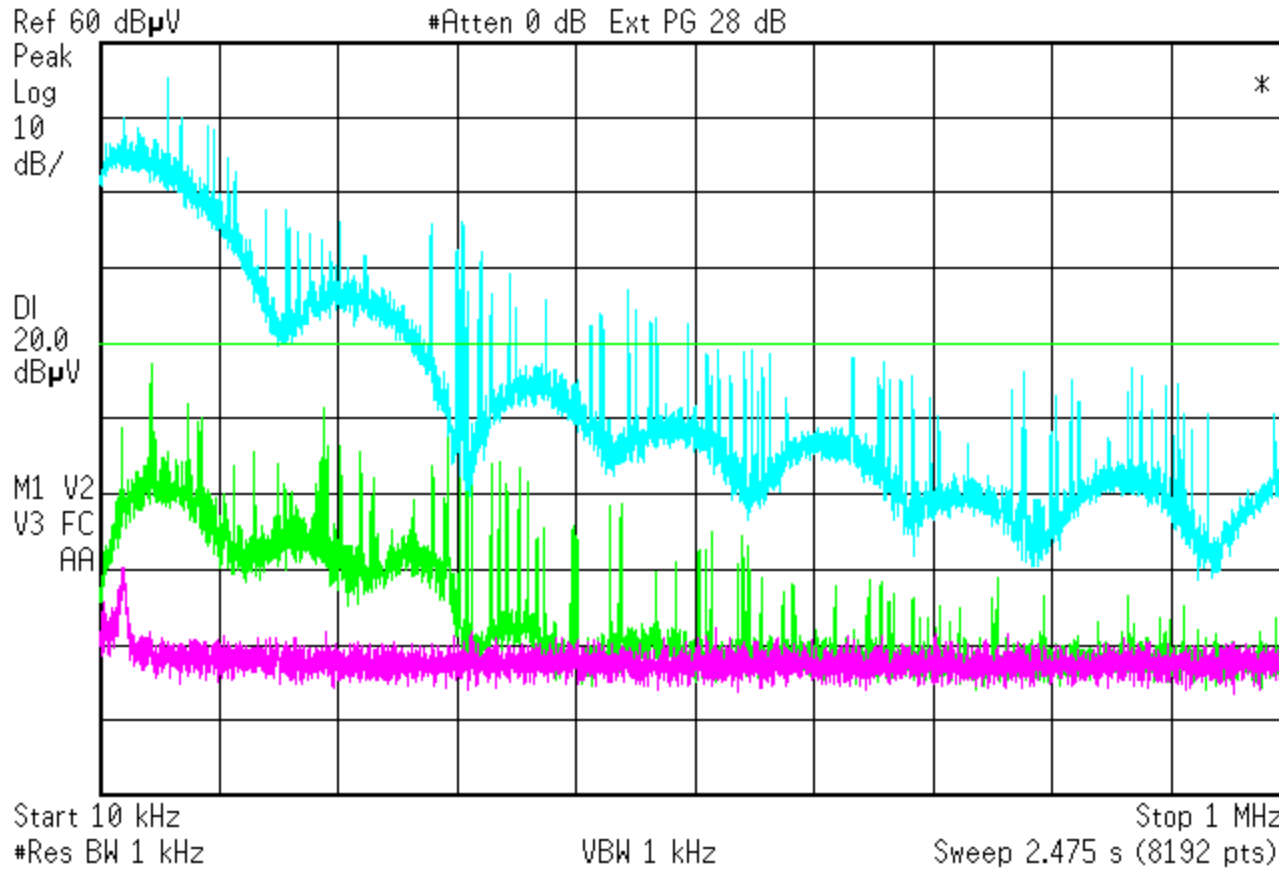
Driven and Unused "Pair to Pair" Mode Current 1 meter CAT-3, diode on/off discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

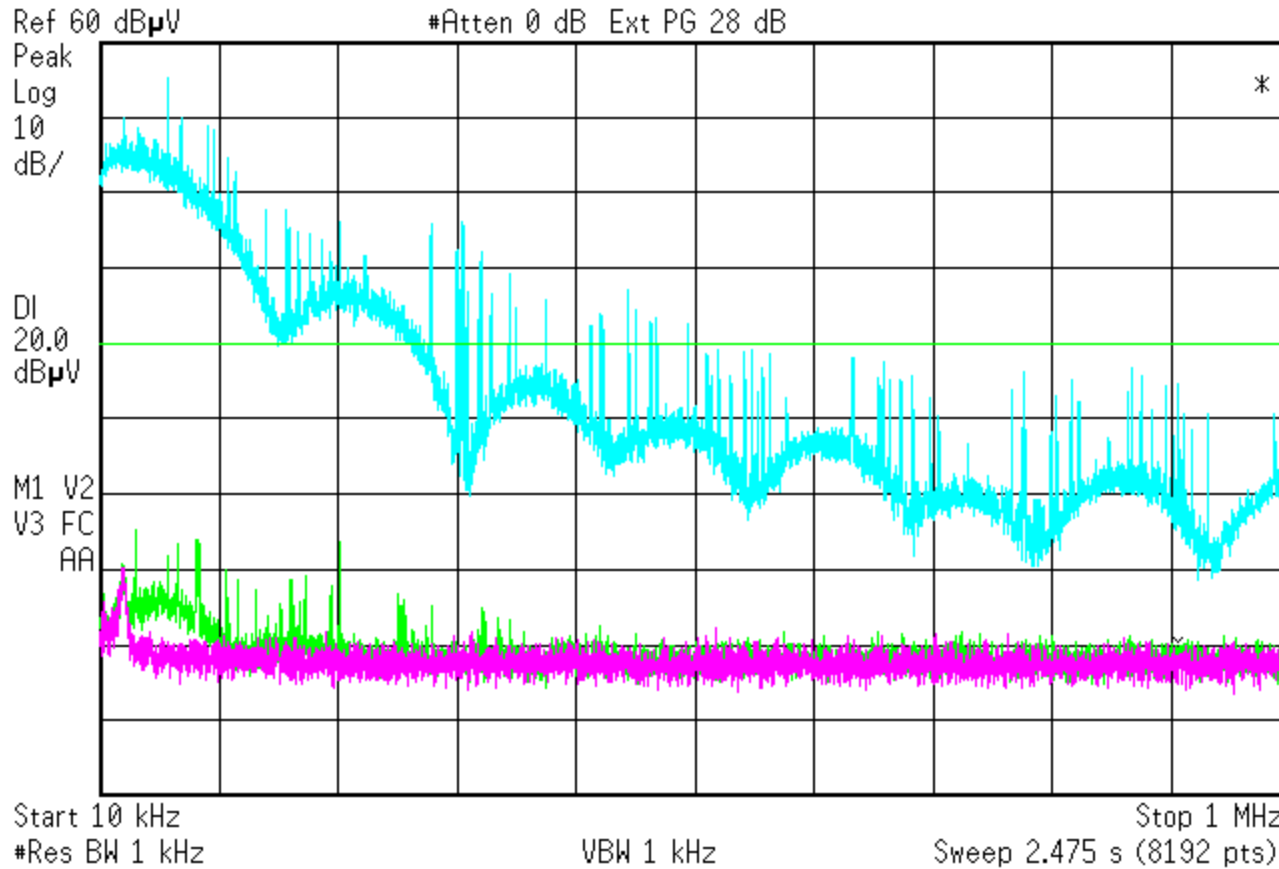
Common Mode Current and Driven "Pair to Pair" Mode Current 1 meter CAT-3, diode on/off discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

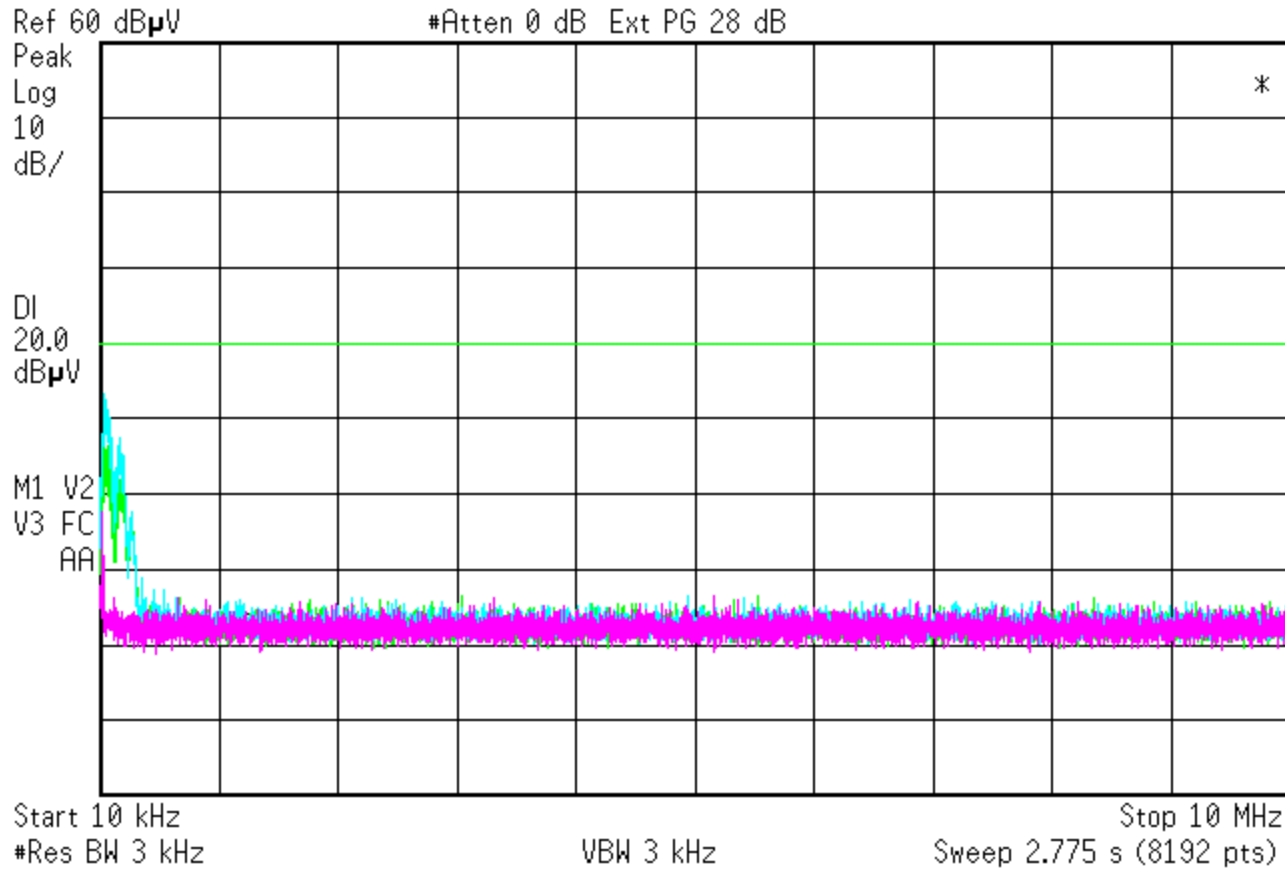
Driven and Unused "Pair to Pair" Mode Current 1 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dB μ V	light green

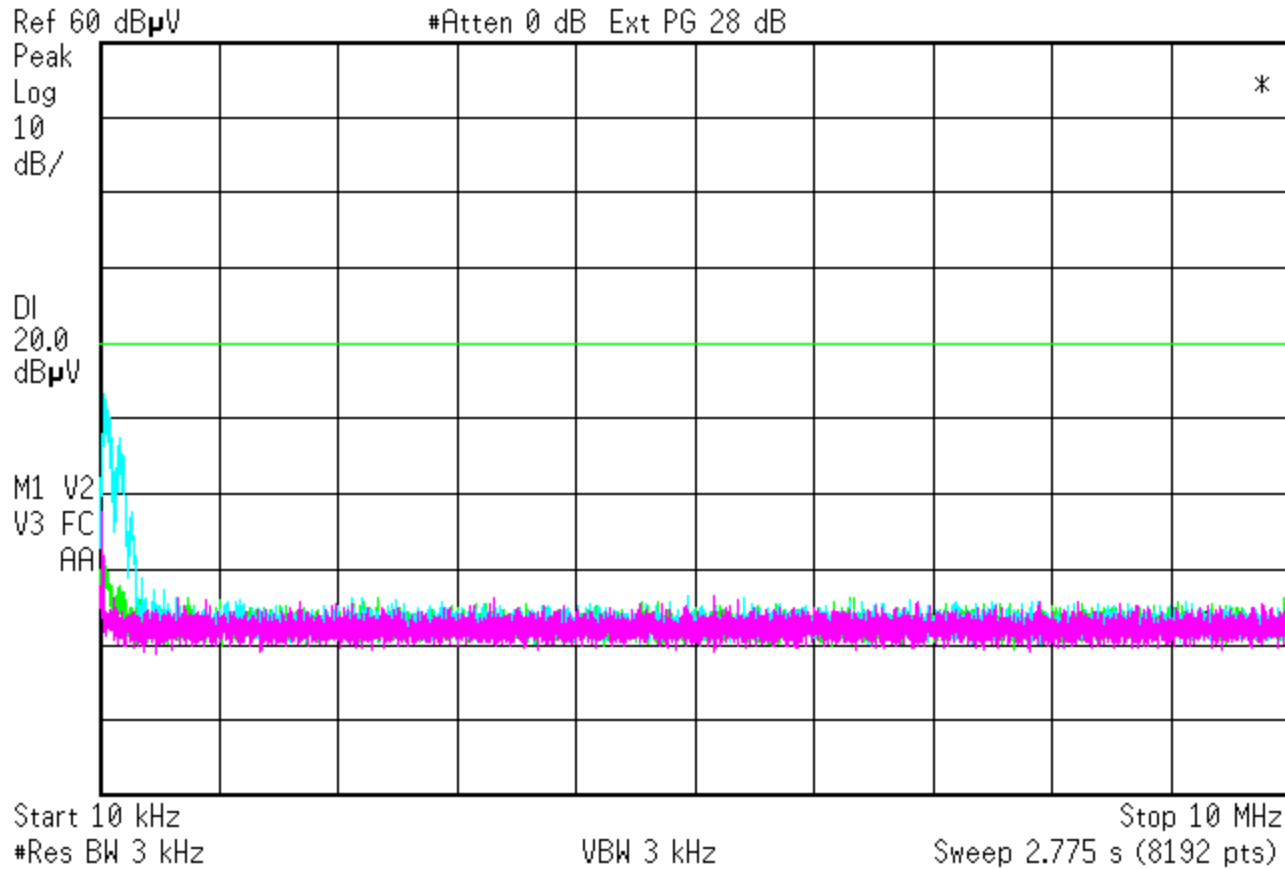
Common Mode Current and Driven "Pair to Pair" Mode Current 1 meter CAT-3, diode on/off discovery, (0 dB μ A = 0 dB μ V)



1 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

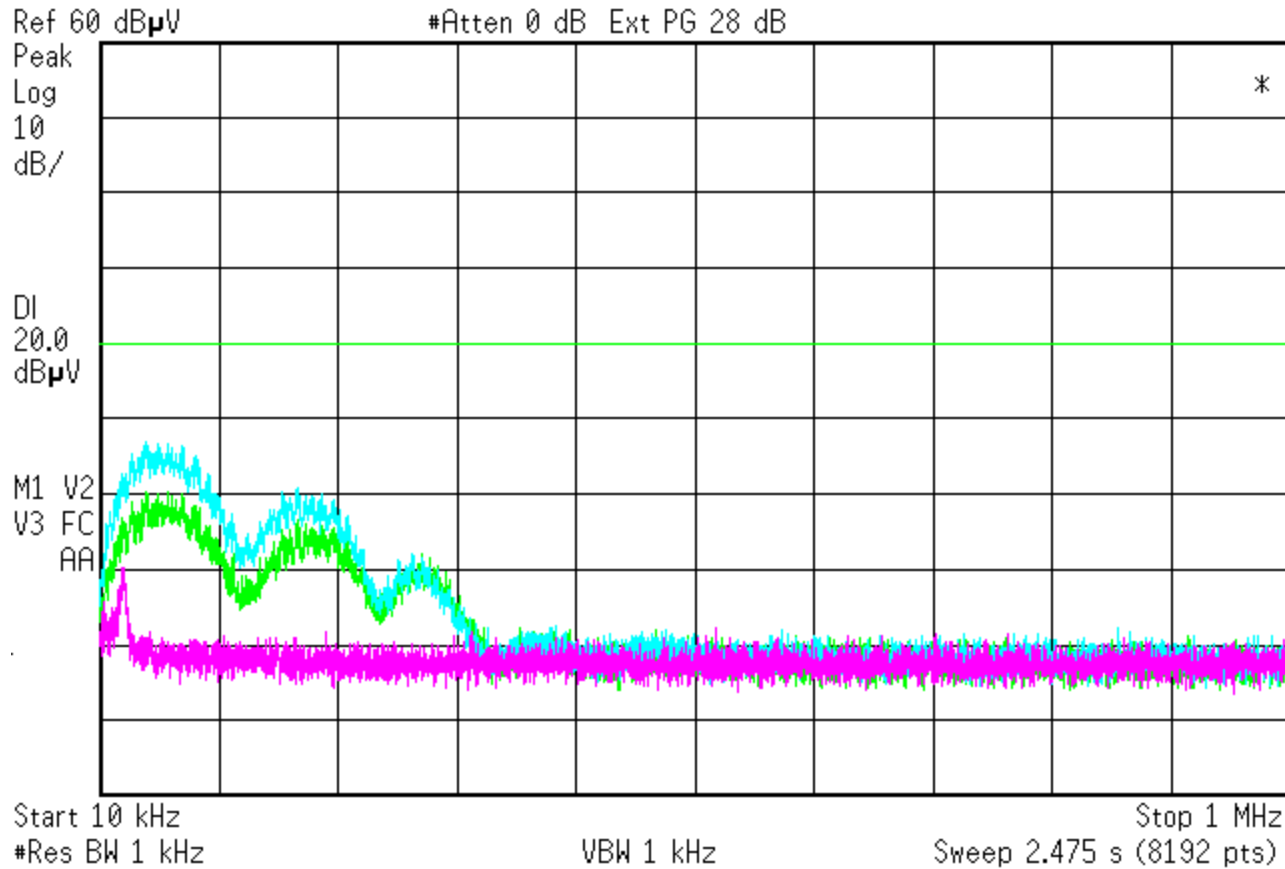
Driven and Unused "Pair to Pair" Mode Current 1 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

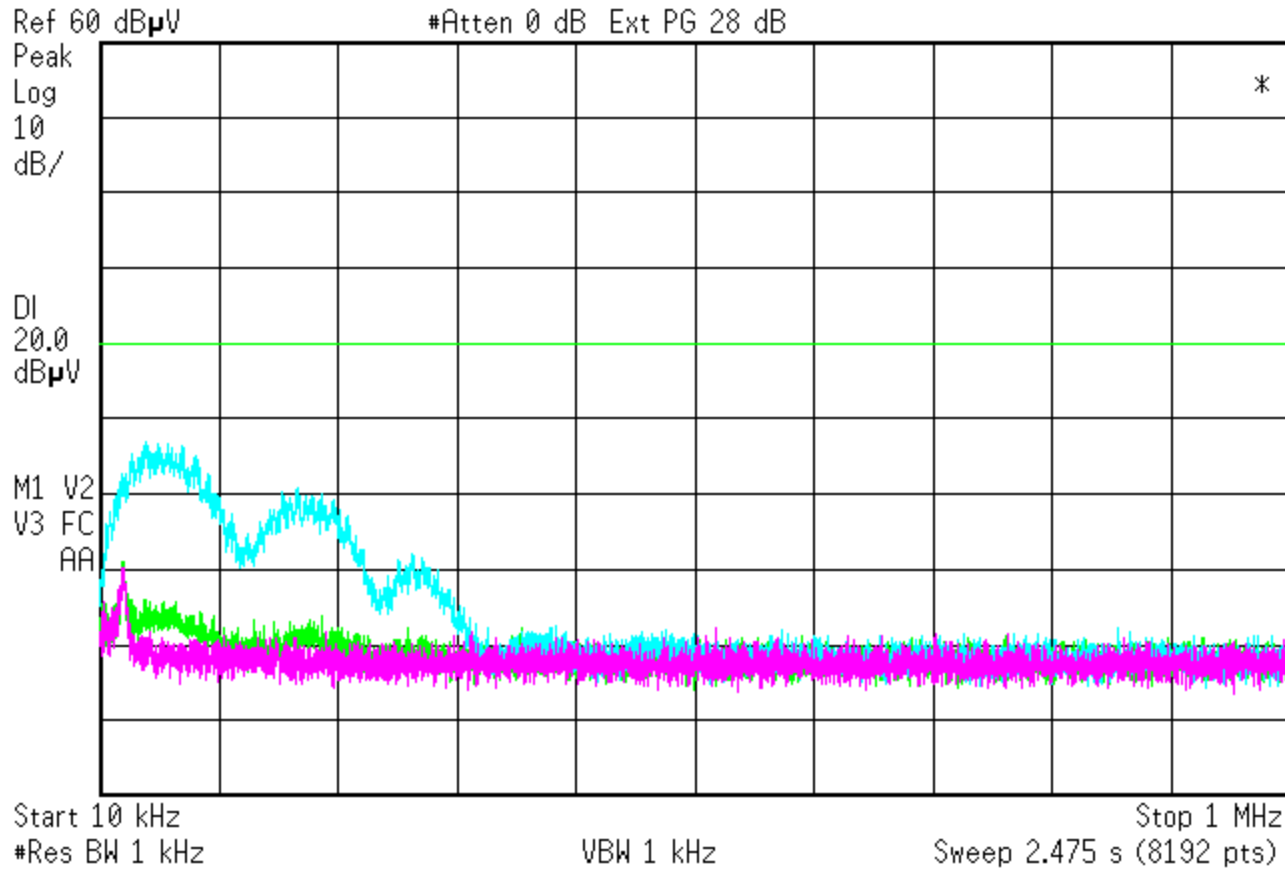
Common Mode Current and Driven "Pair to Pair" Mode Current 1 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

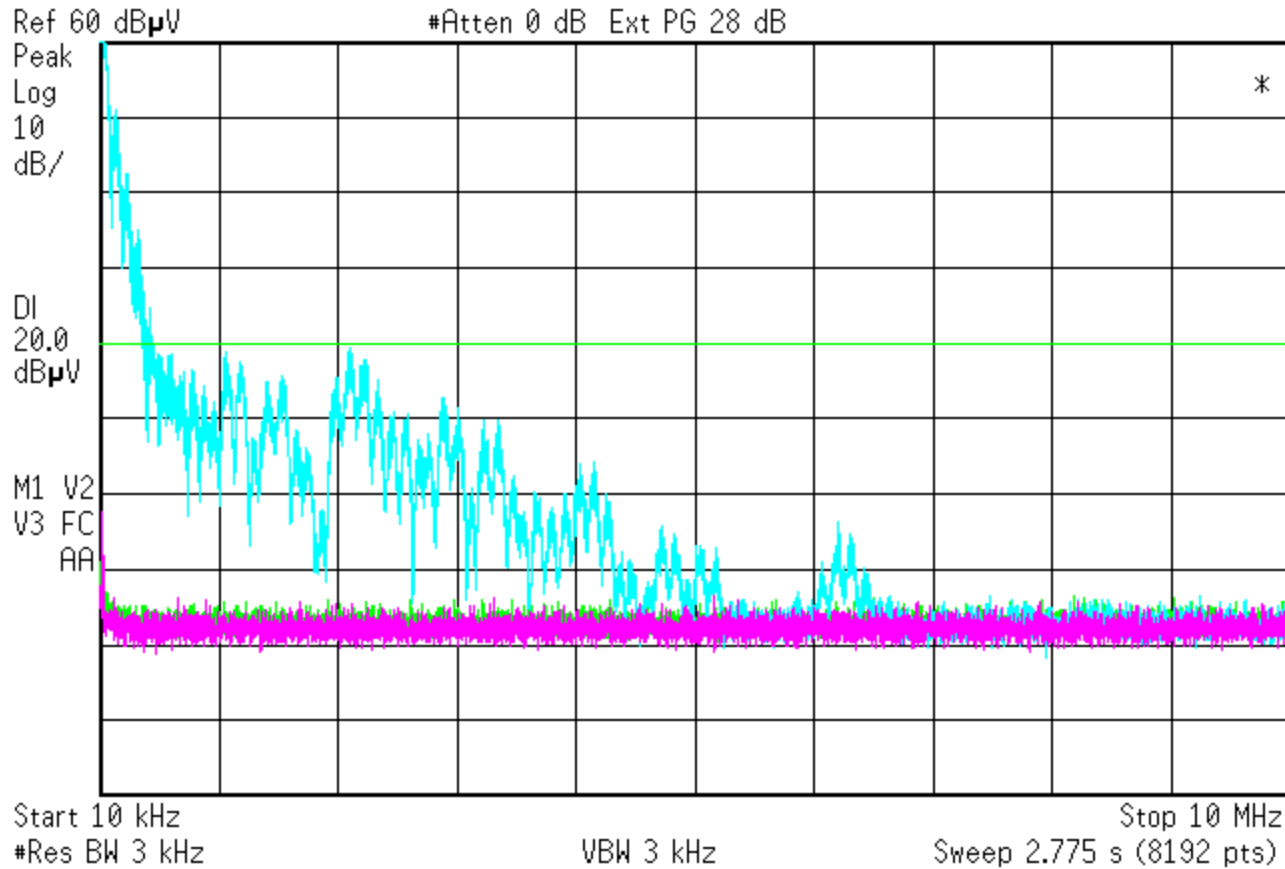
Driven and Unused "Pair to Pair" Mode Current 1 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

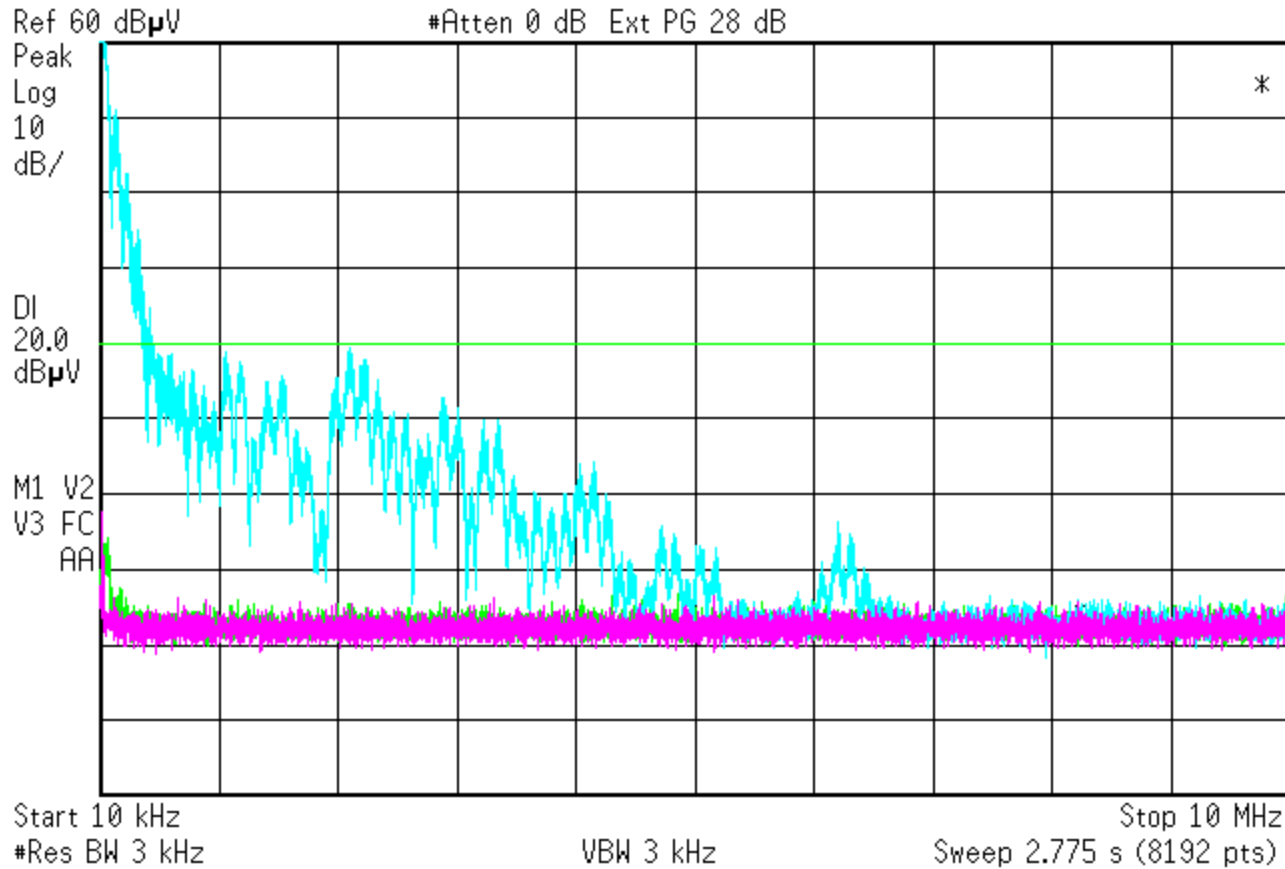
Common Mode Current and Driven "Pair to Pair" Mode Current 1 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

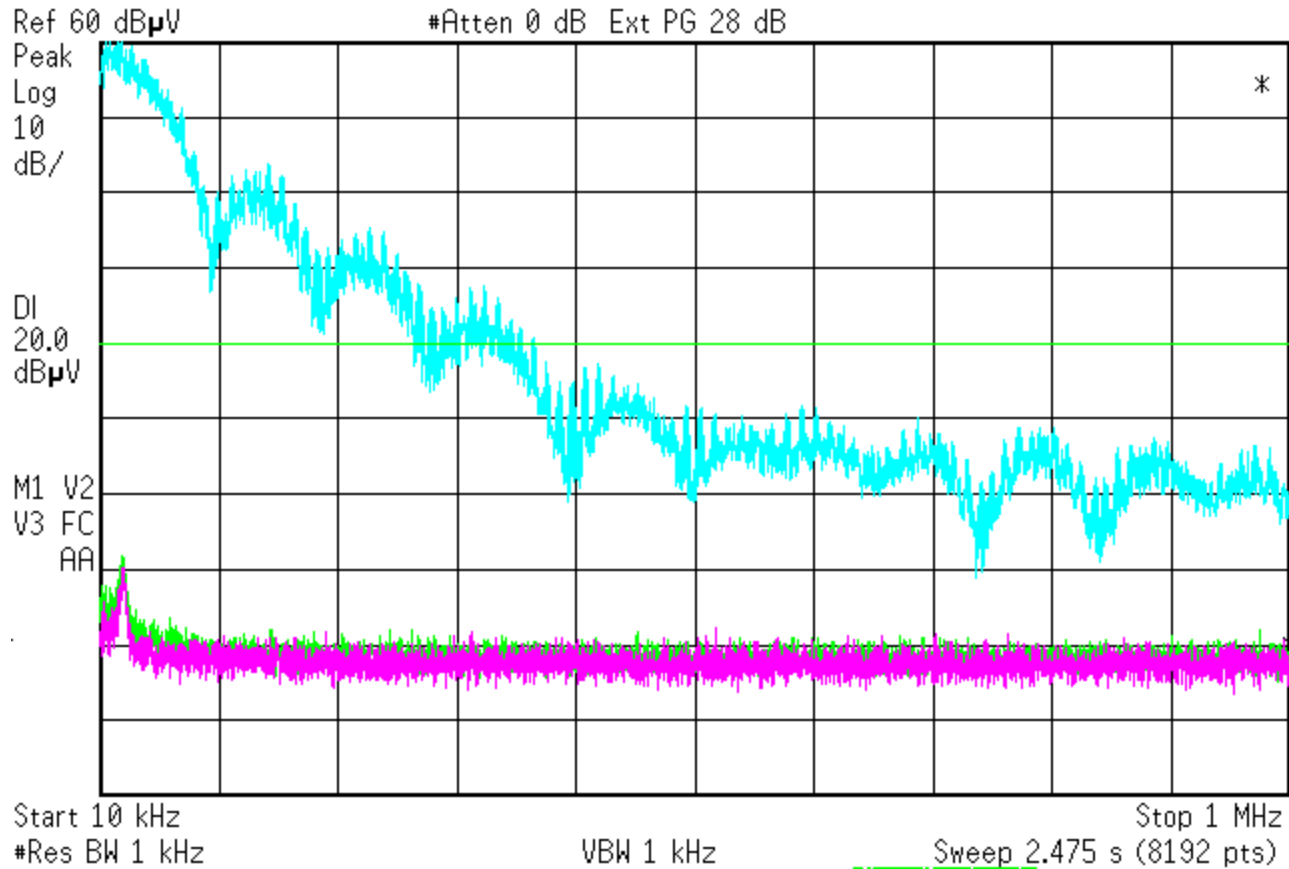
Driven and Unused "Pair to Pair" Mode Current 1 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

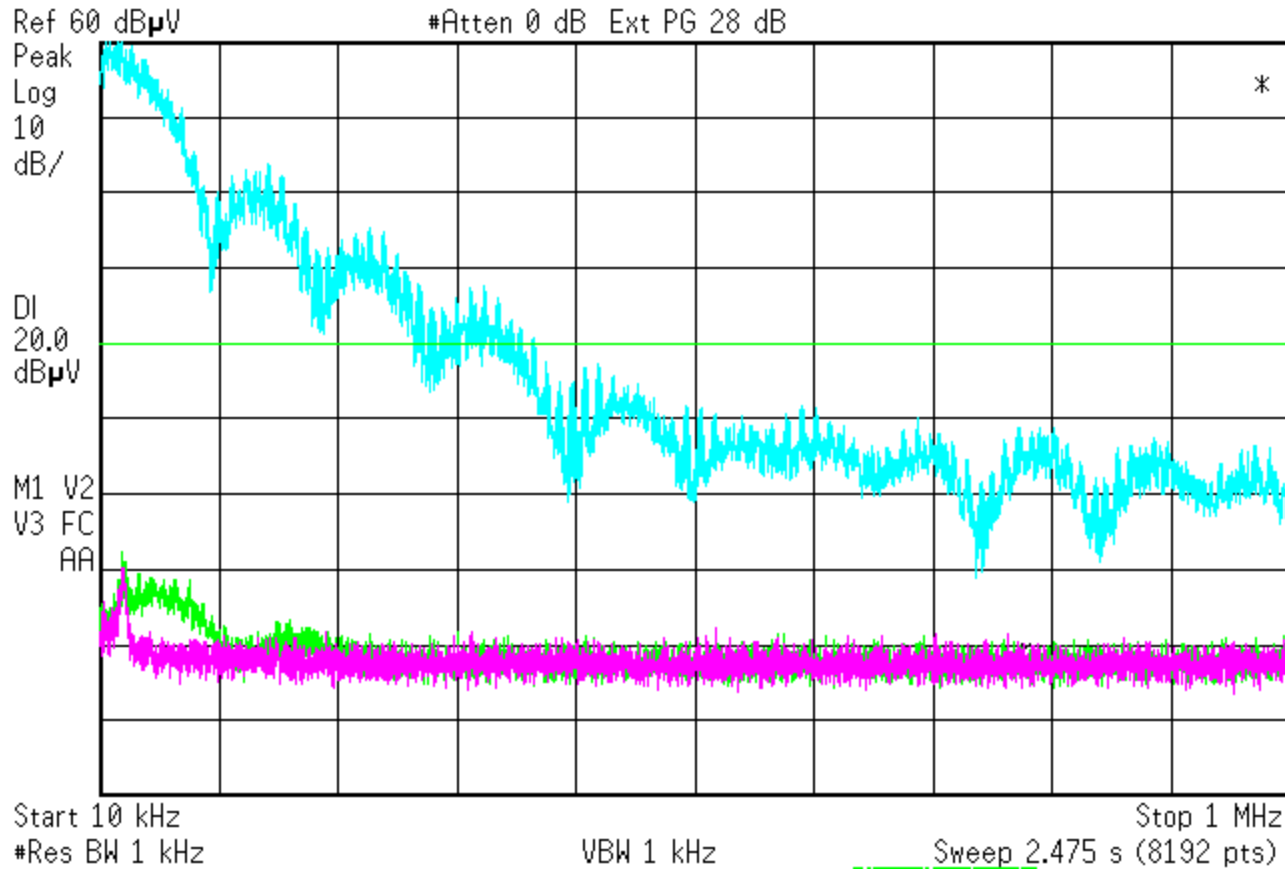
Common Mode Current and Driven "Pair to Pair" Mode Current 1 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Driven and Unused "Pair to Pair" Mode Current 1 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



1 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

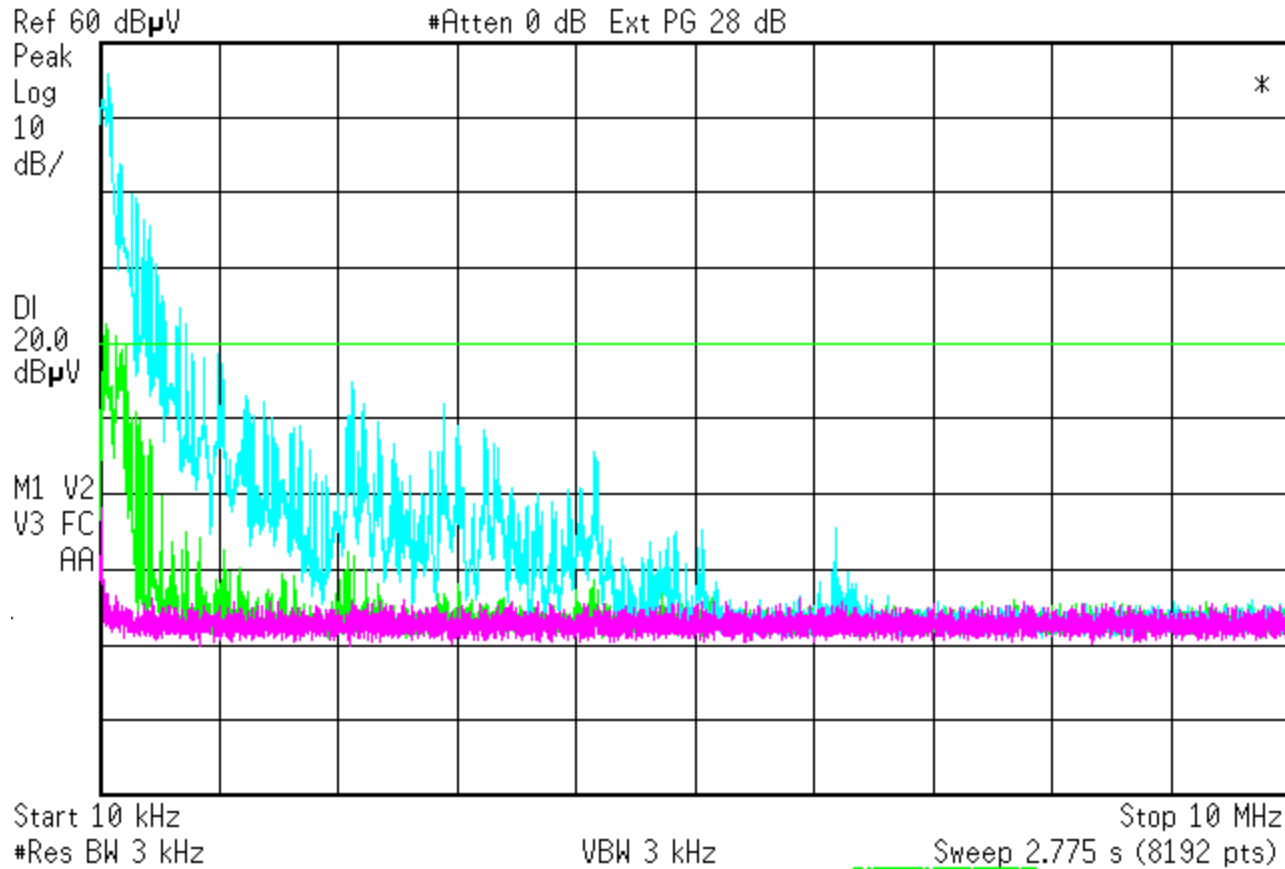
Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dB μ V	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 1 meter CAT-3, Shorted Load discovery, (0 dB μ A = 0 dB μ V)

CAT-3 Cable Tests, (Cont.)

10 meter CAT-3, Discovery only:

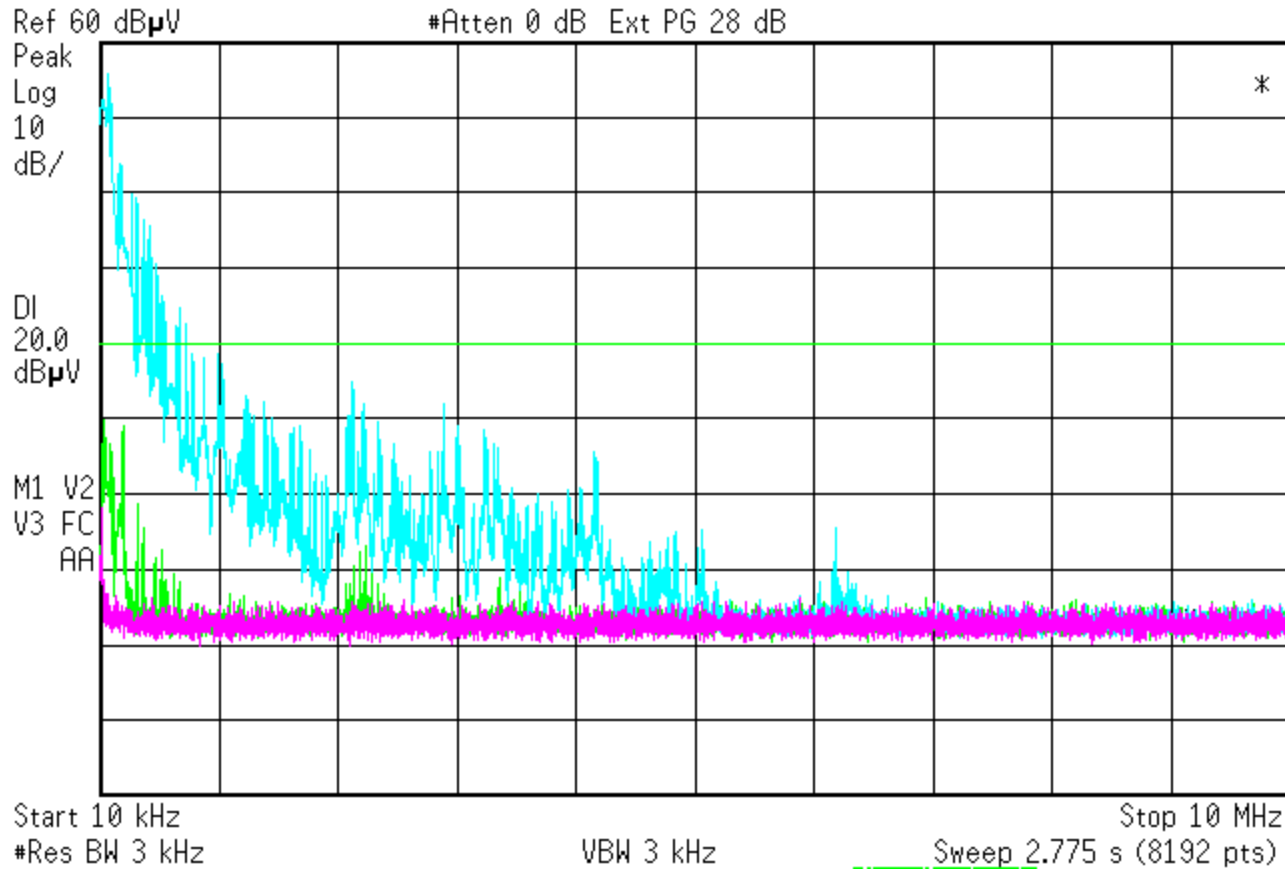
- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



10 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

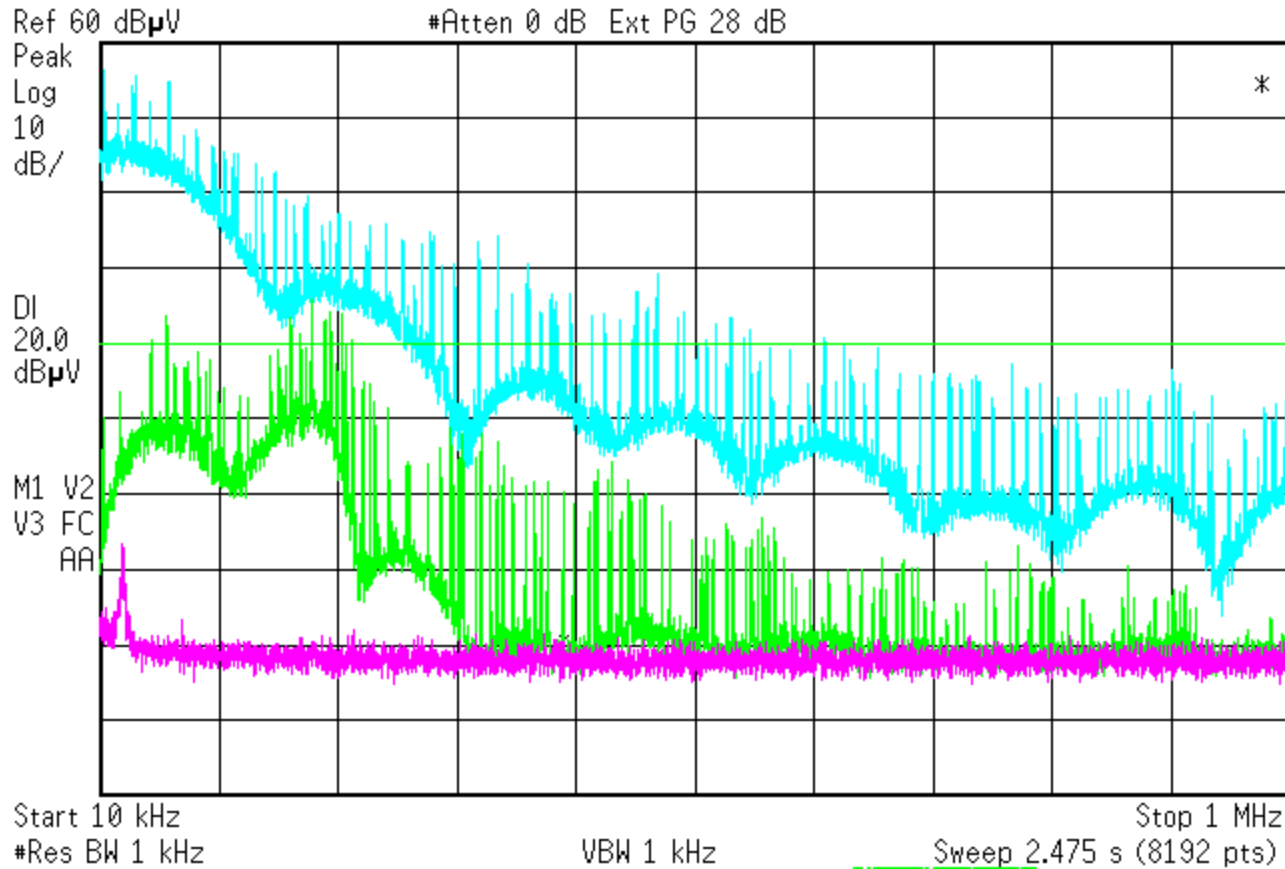
Driven and Unused "Pair to Pair" Mode Current 10 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

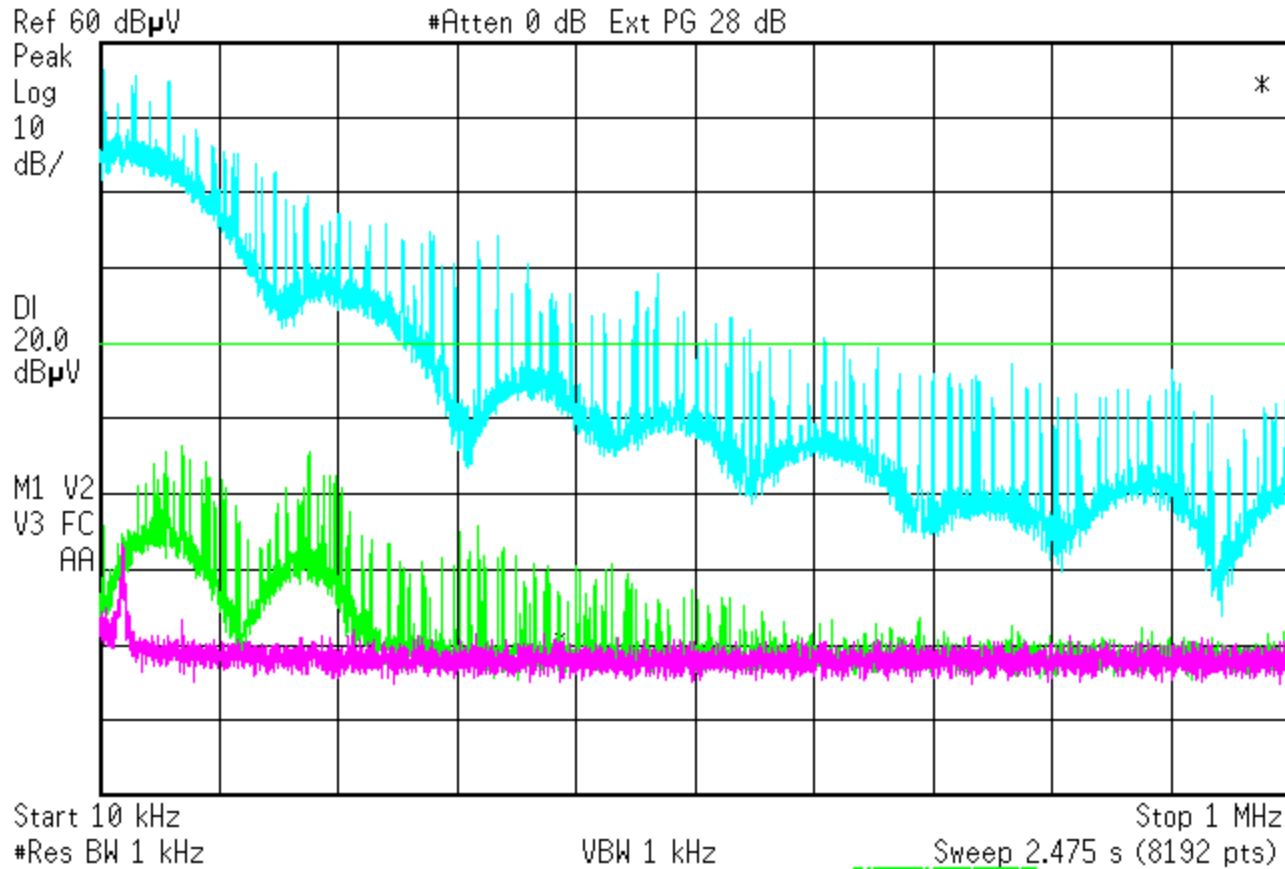
Common Mode Current and Driven "Pair to Pair" Mode Current 10 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

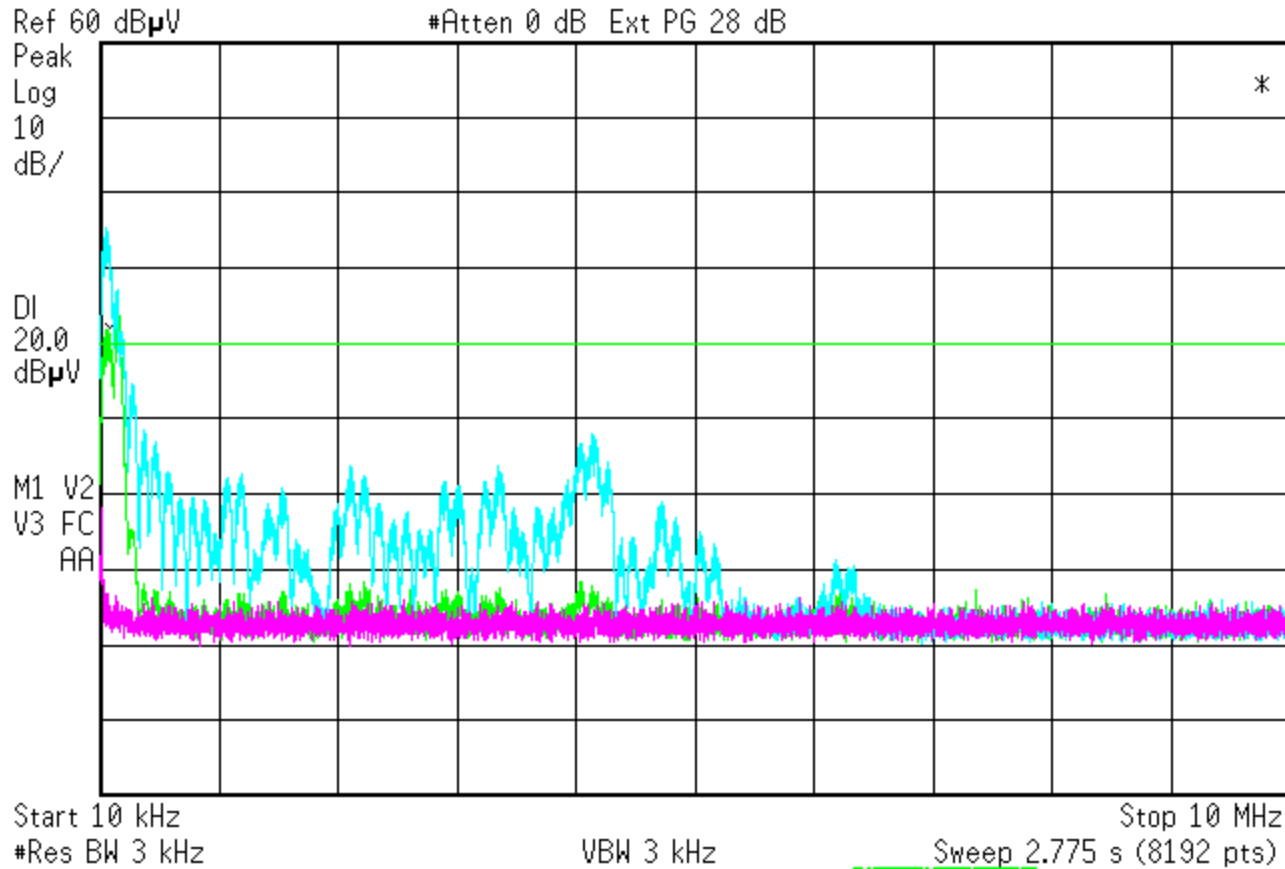
Driven and Unused "Pair to Pair" Mode Current 10 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

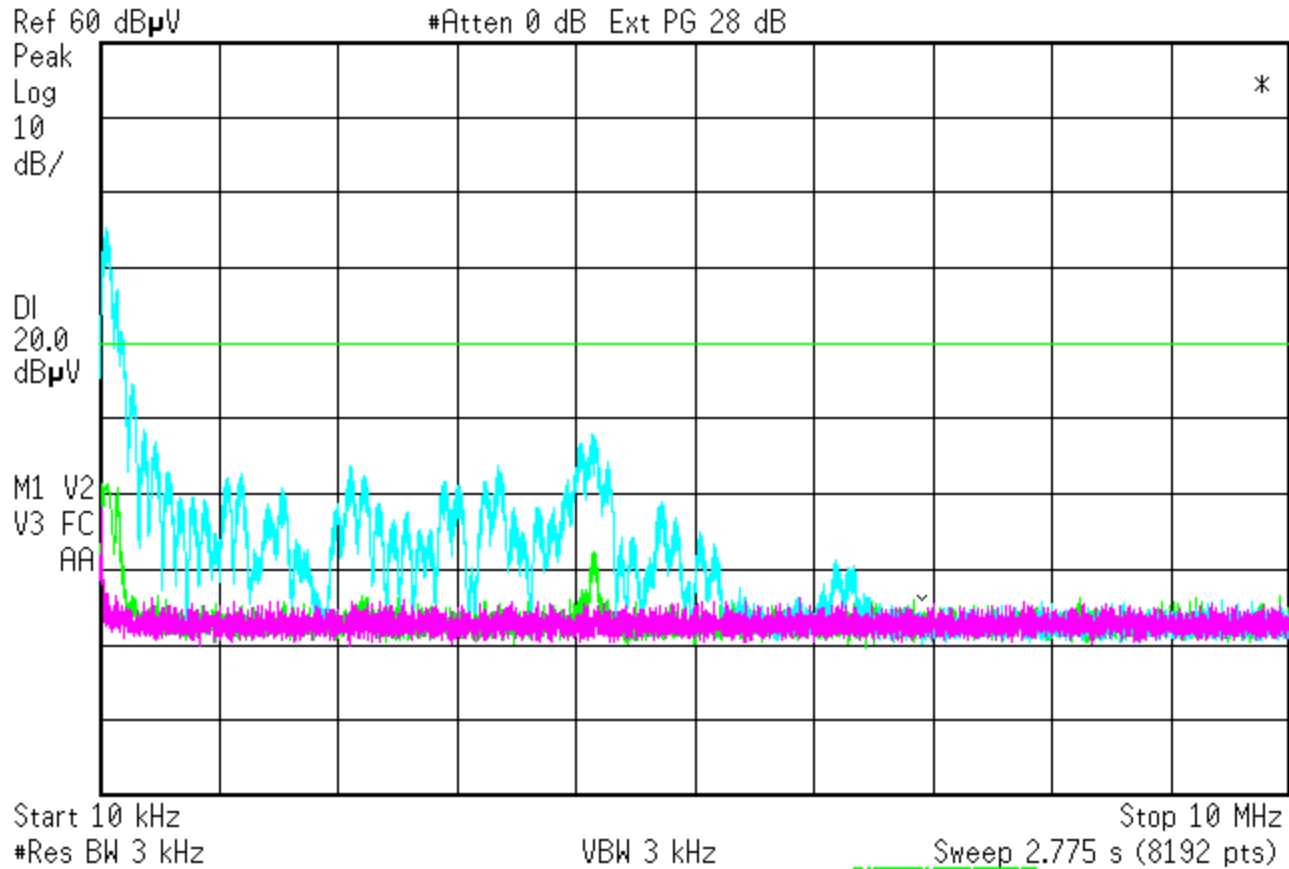
Common Mode Current and Driven "Pair to Pair" Mode Current 10 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

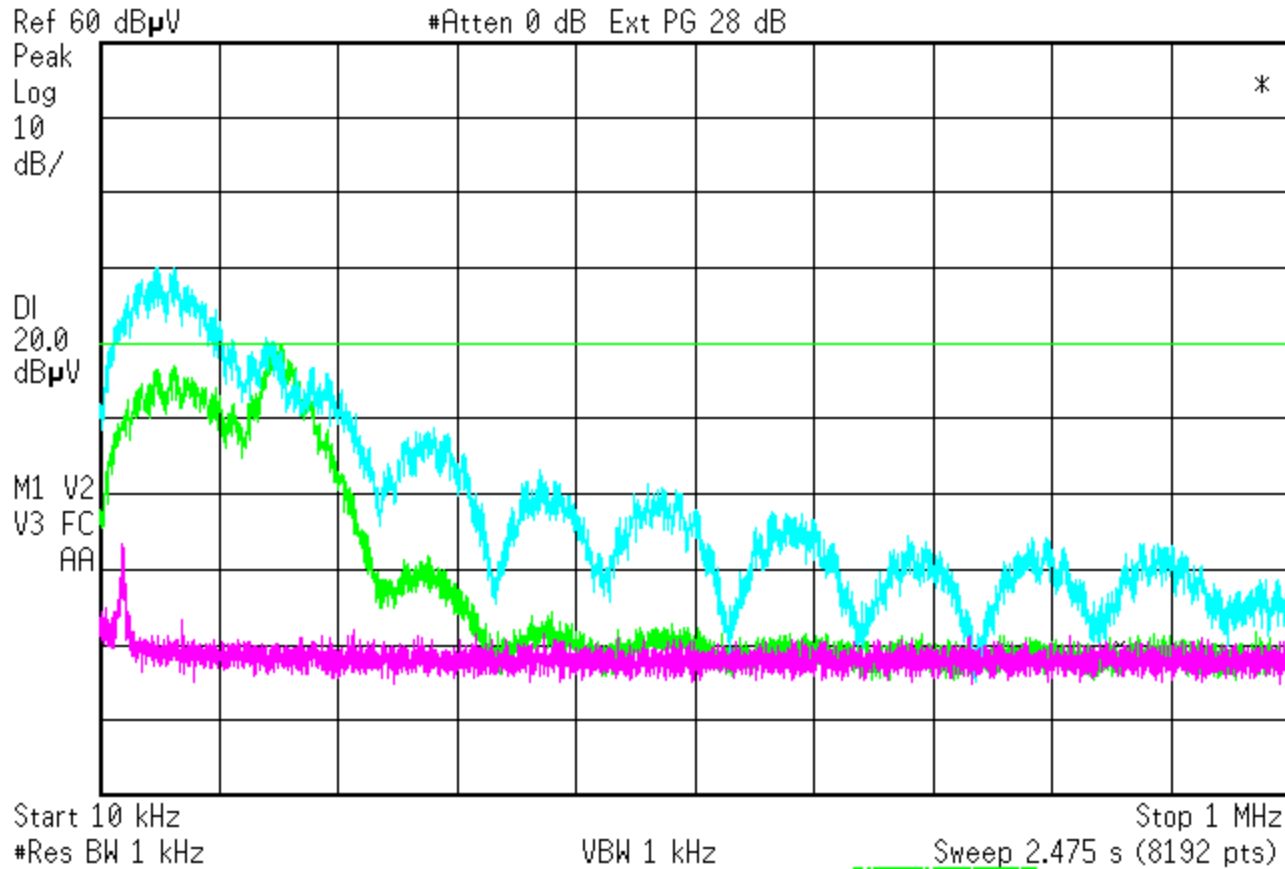
Driven and Unused "Pair to Pair" Mode Current 10 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

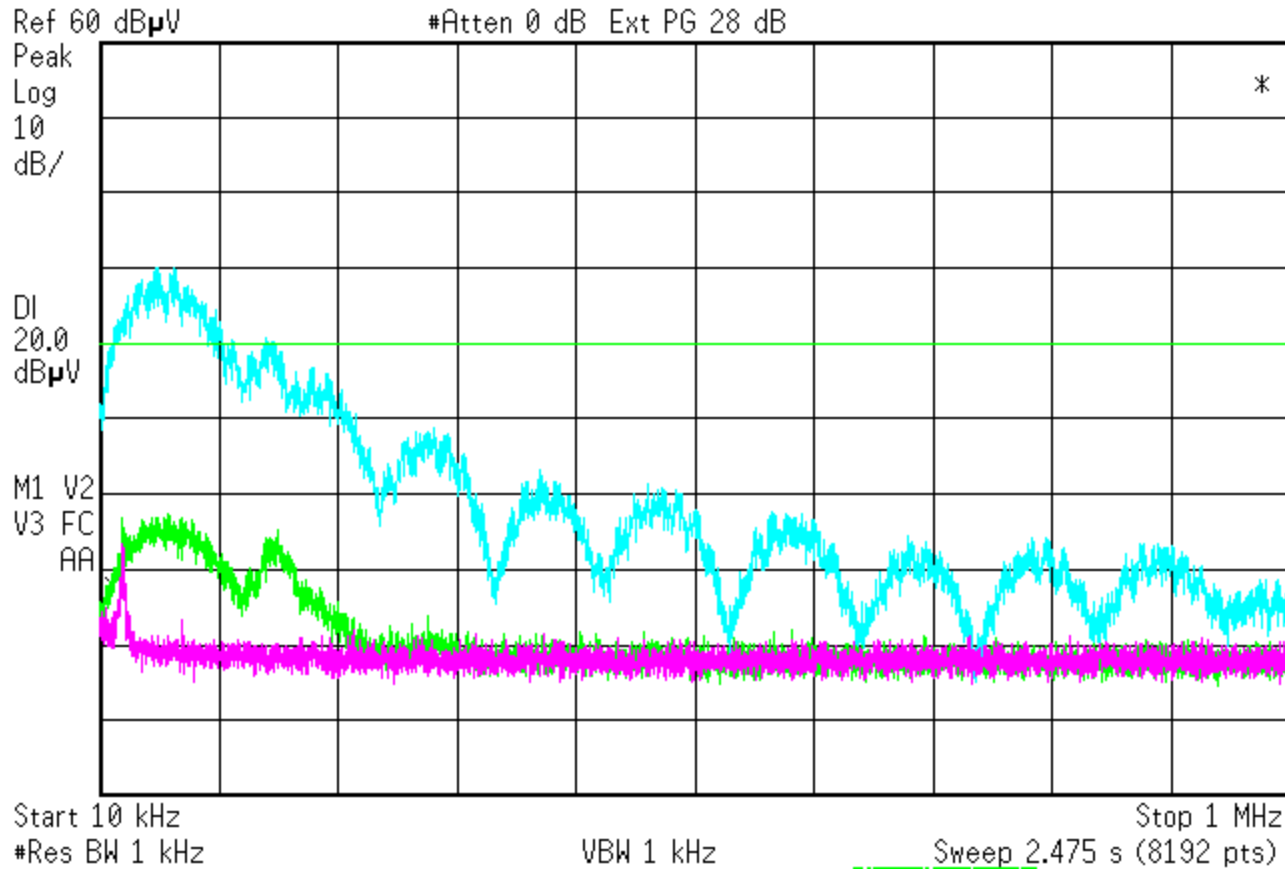
Common Mode Current and Driven "Pair to Pair" Mode Current 10 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

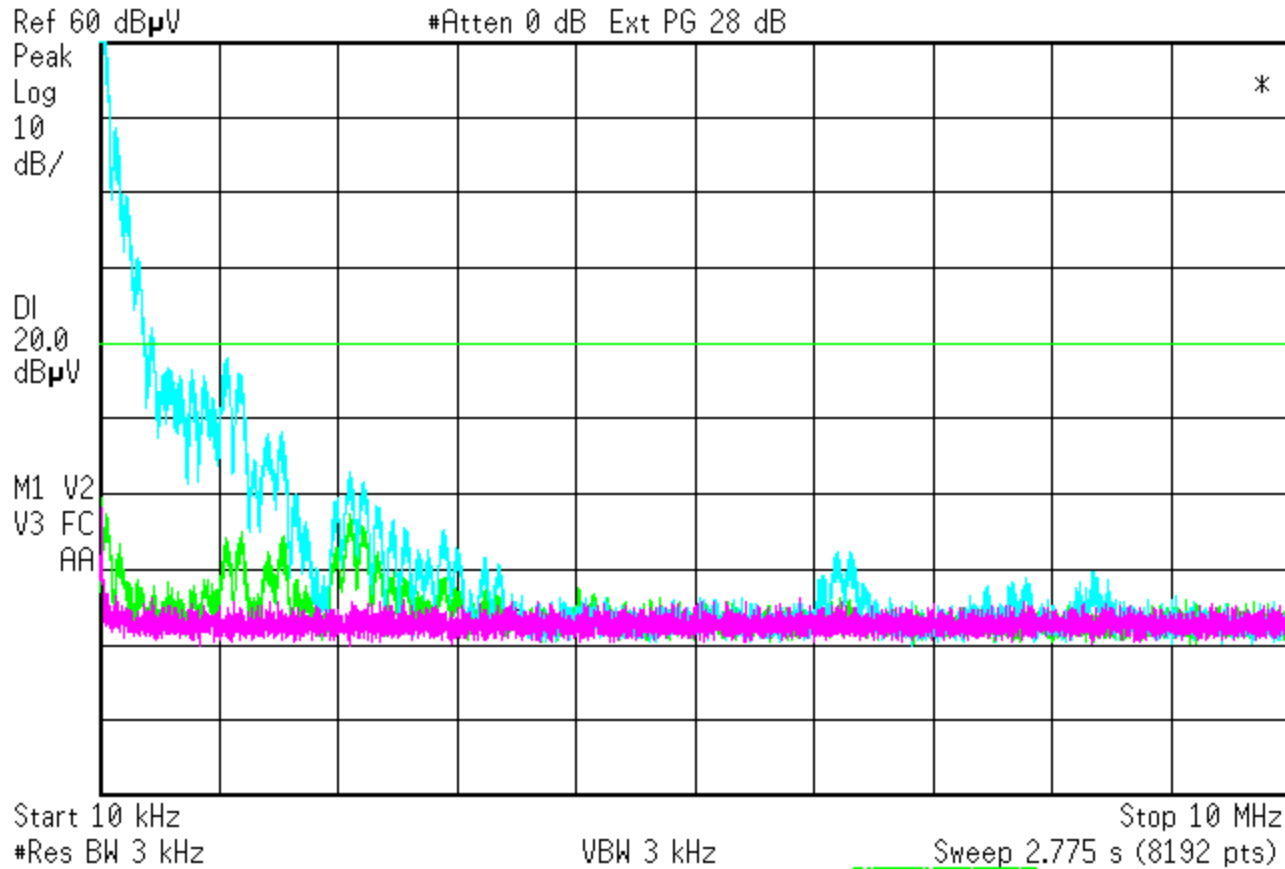
Driven and Unused "Pair to Pair" Mode Current 10 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

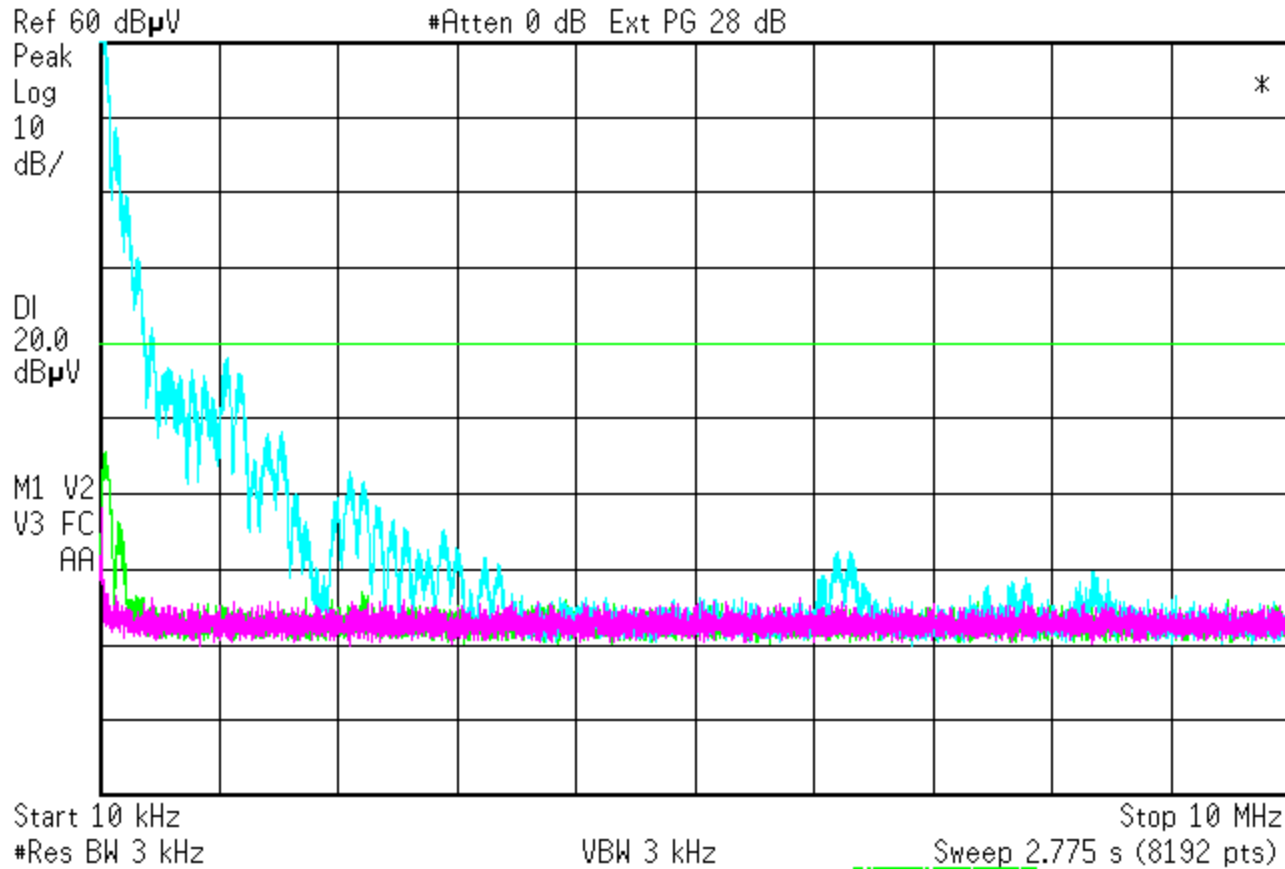
Common Mode Current and Driven "Pair to Pair" Mode Current 10 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

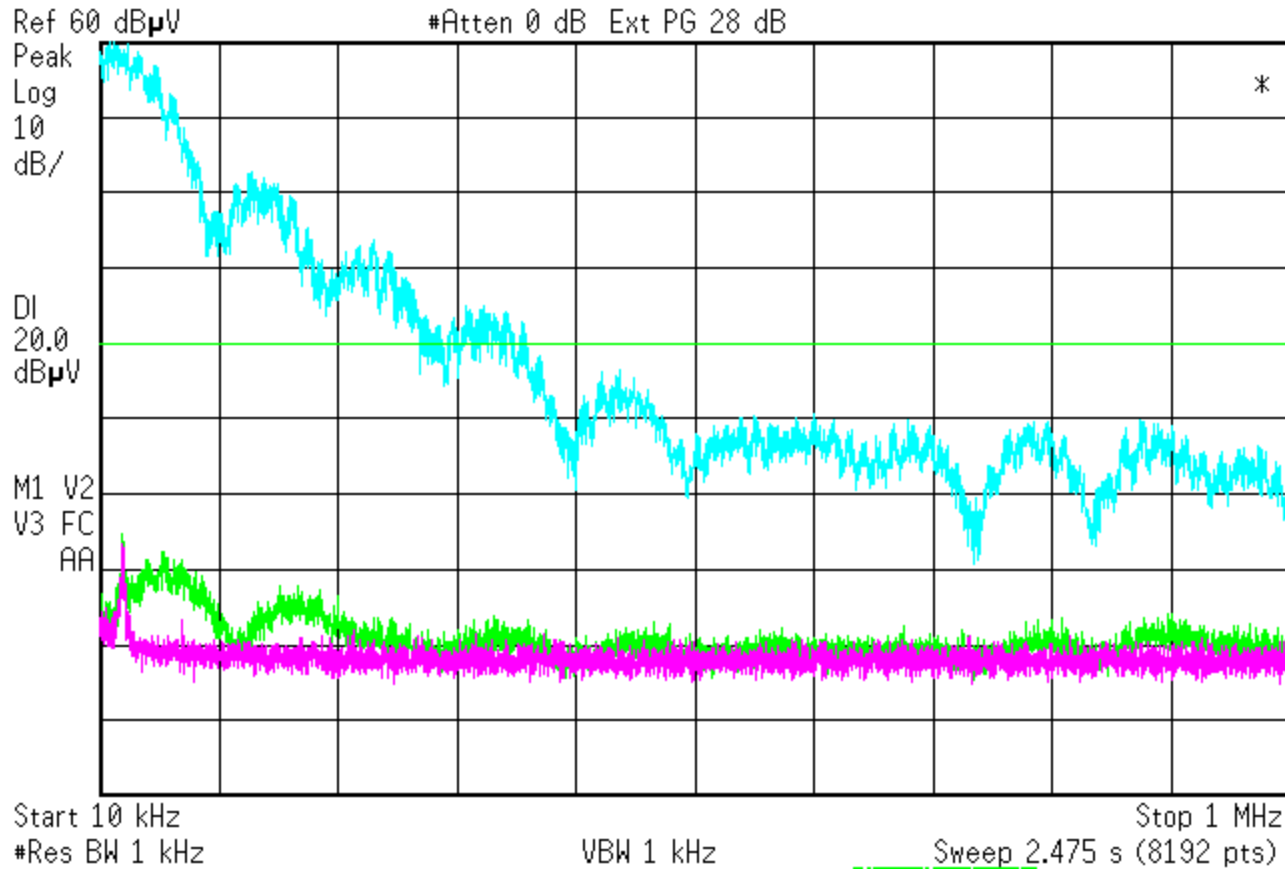
Driven and Unused "Pair to Pair" Mode Current 10 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

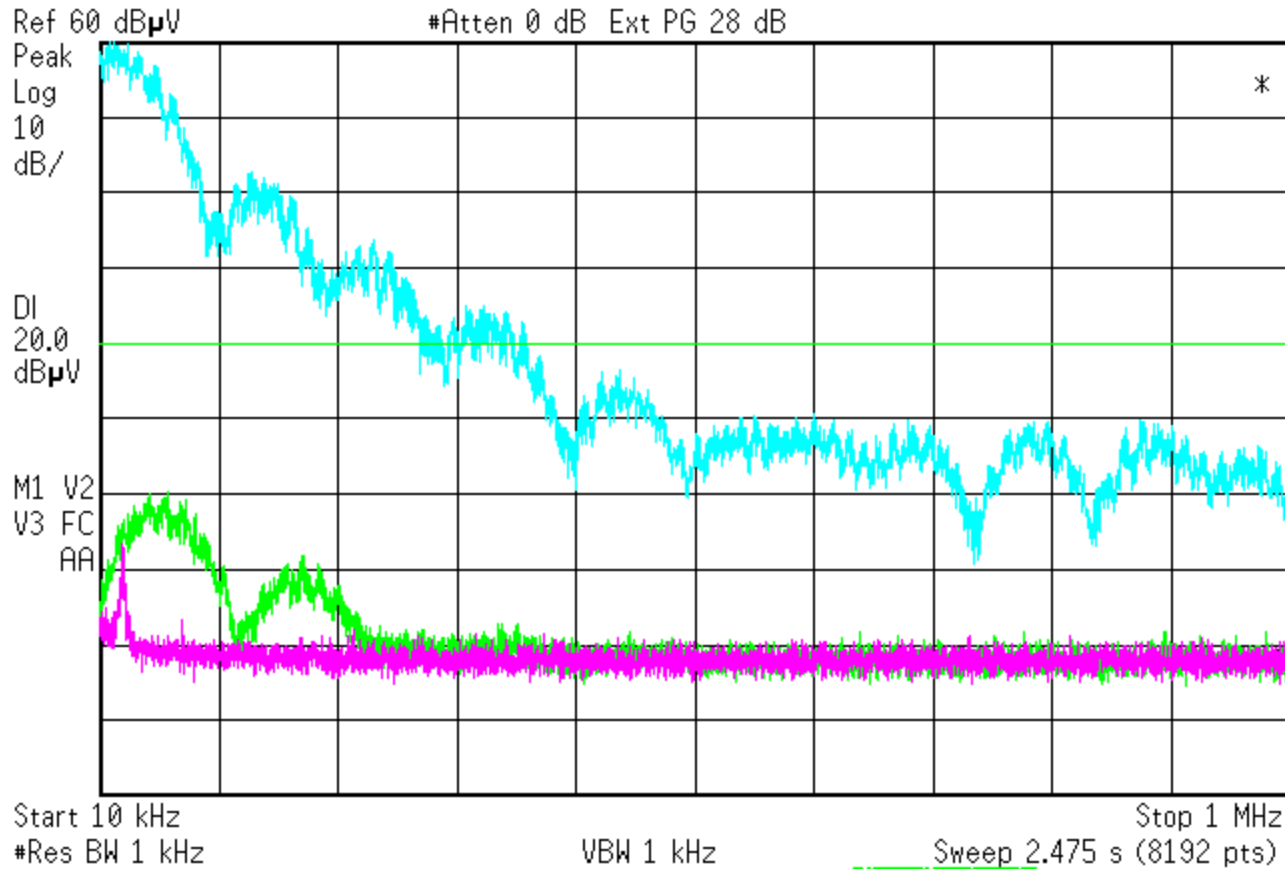
Common Mode Current and Driven "Pair to Pair" Mode Current 10 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Driven and Unused "Pair to Pair" Mode Current 10 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



10 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

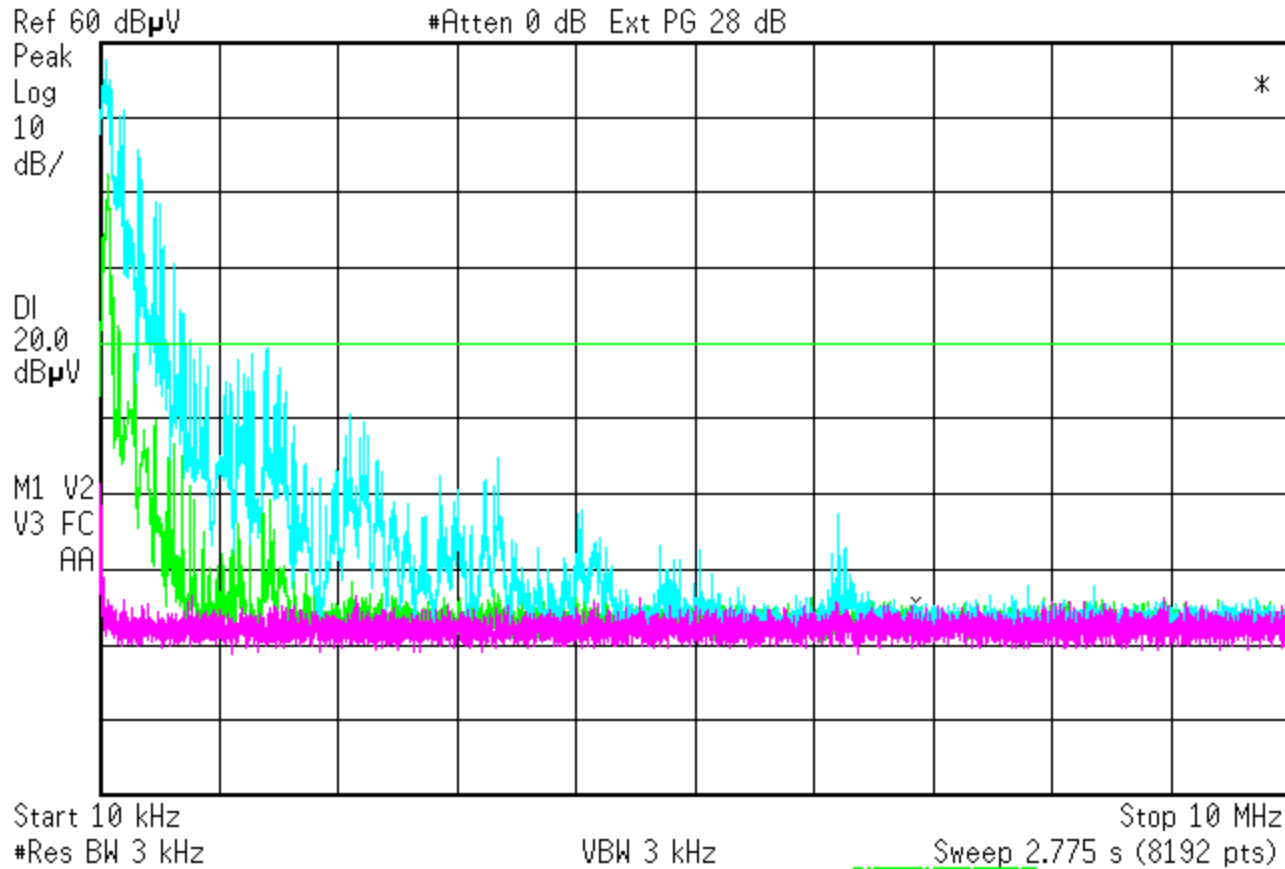
Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 10 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)

CAT-3 Cable Tests, (Cont.)

100 meter CAT-3, Discovery only:

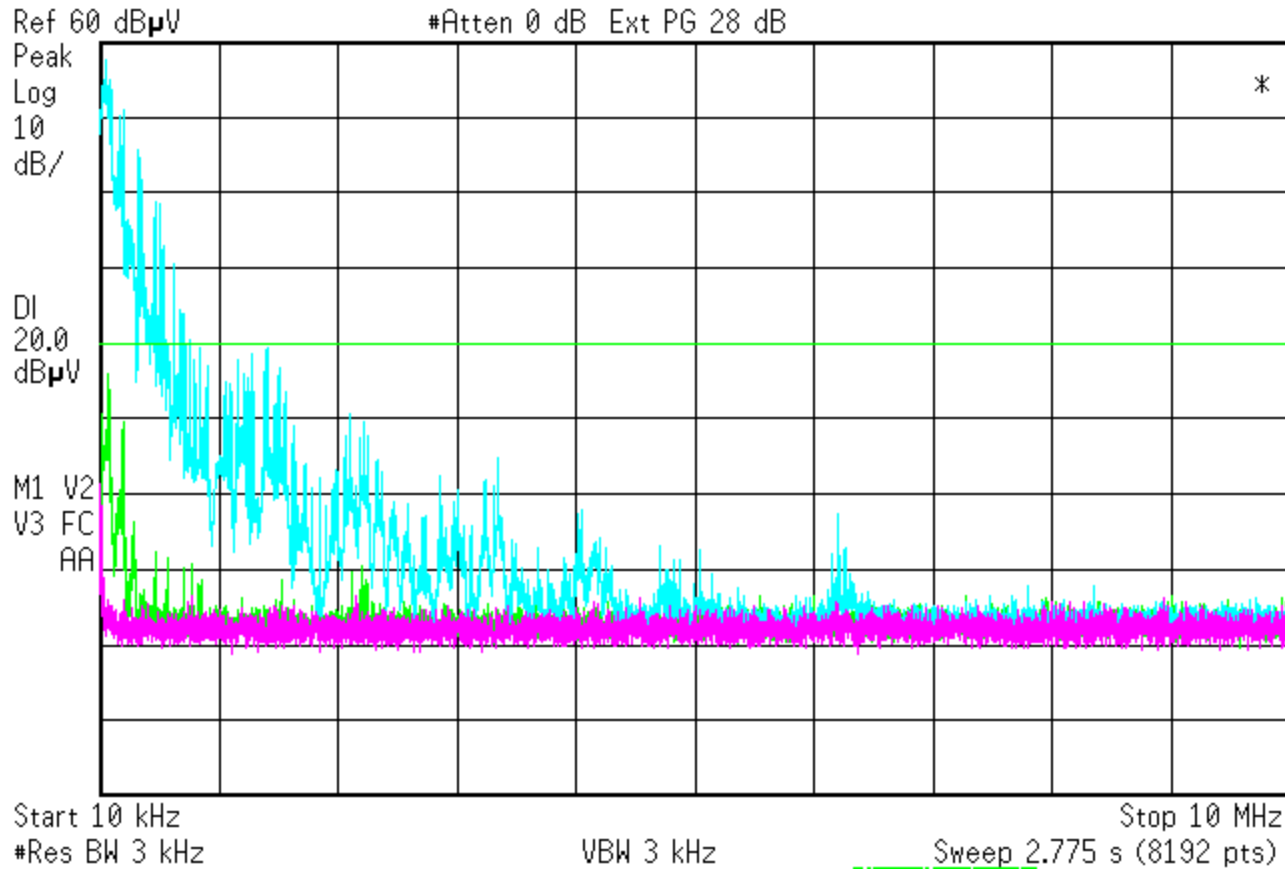
- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



100 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

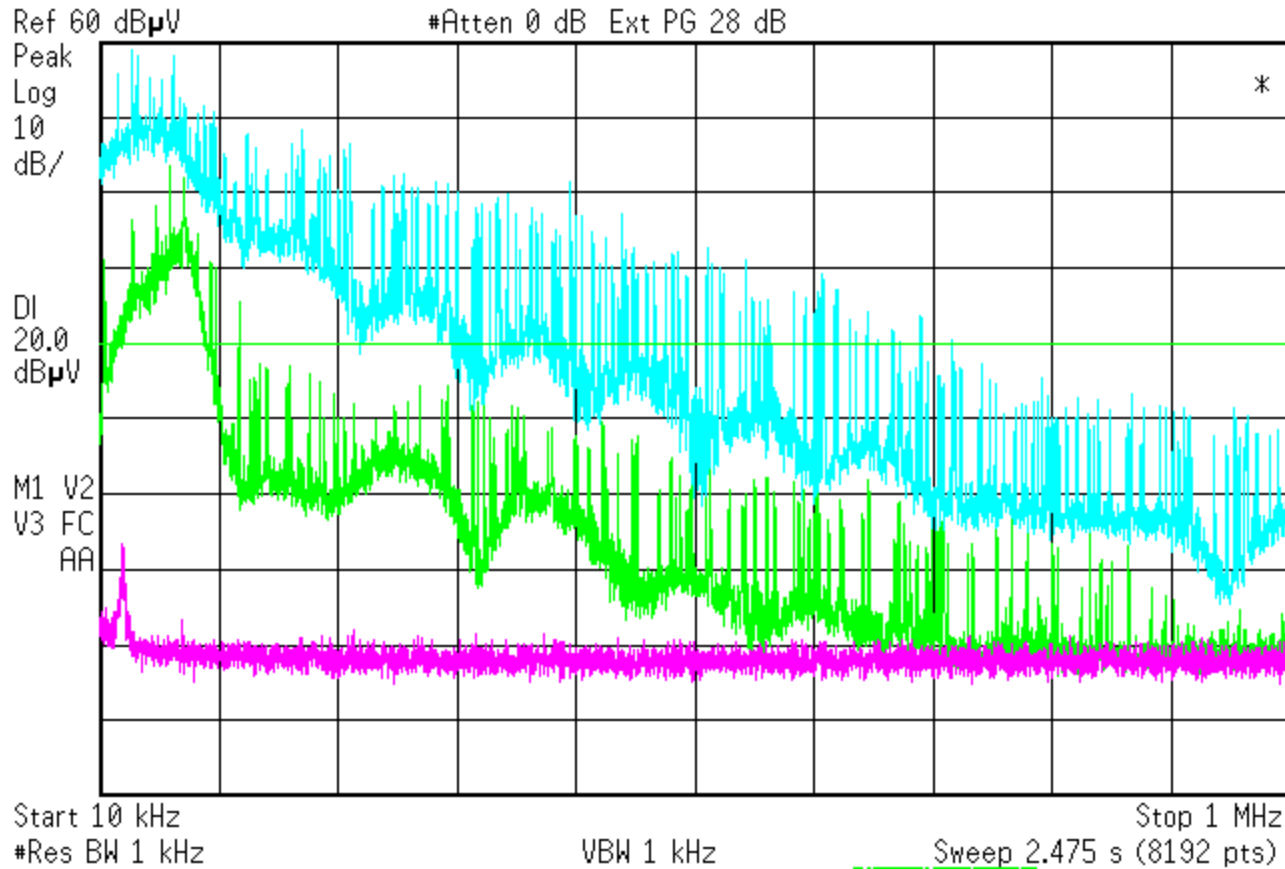
Driven and Unused "Pair to Pair" Mode Current 100 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

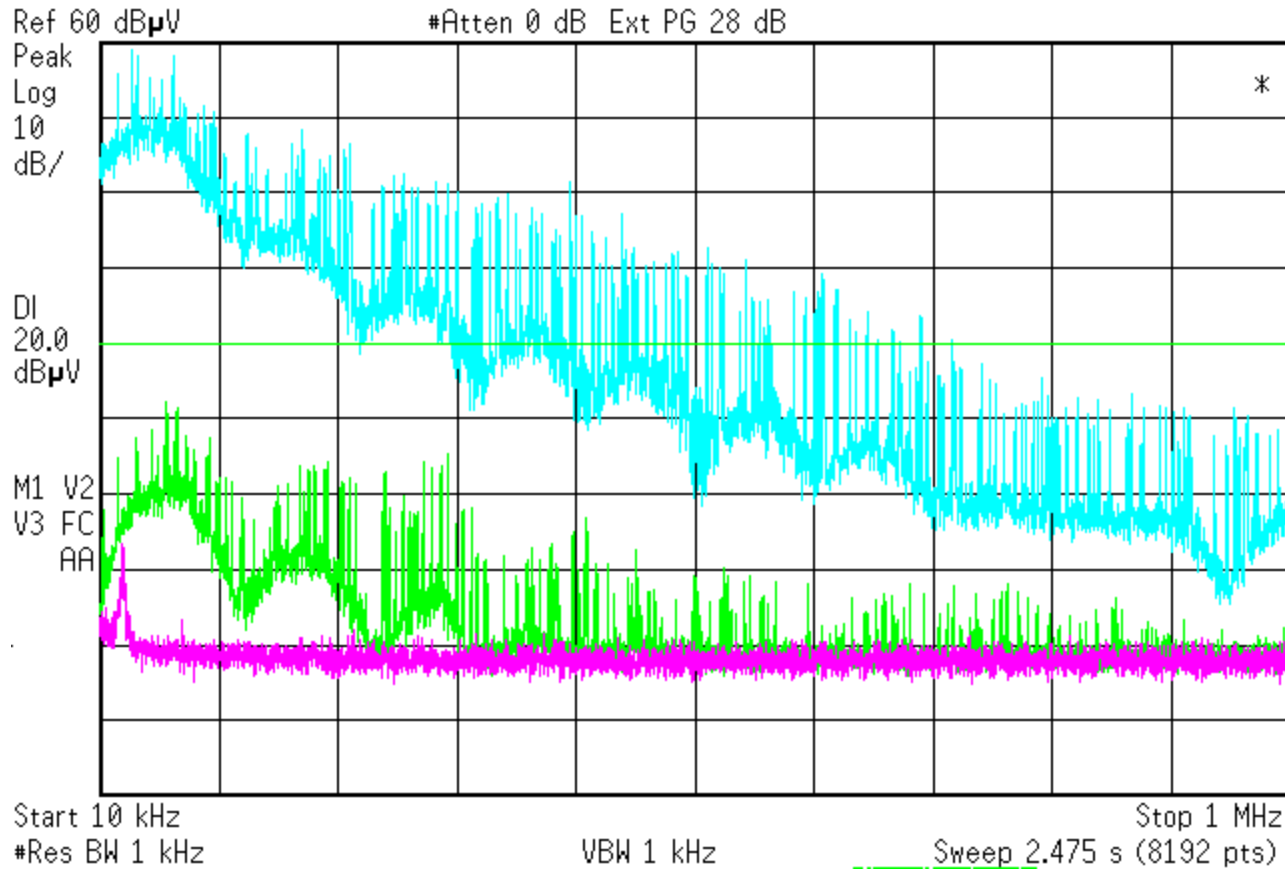
Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

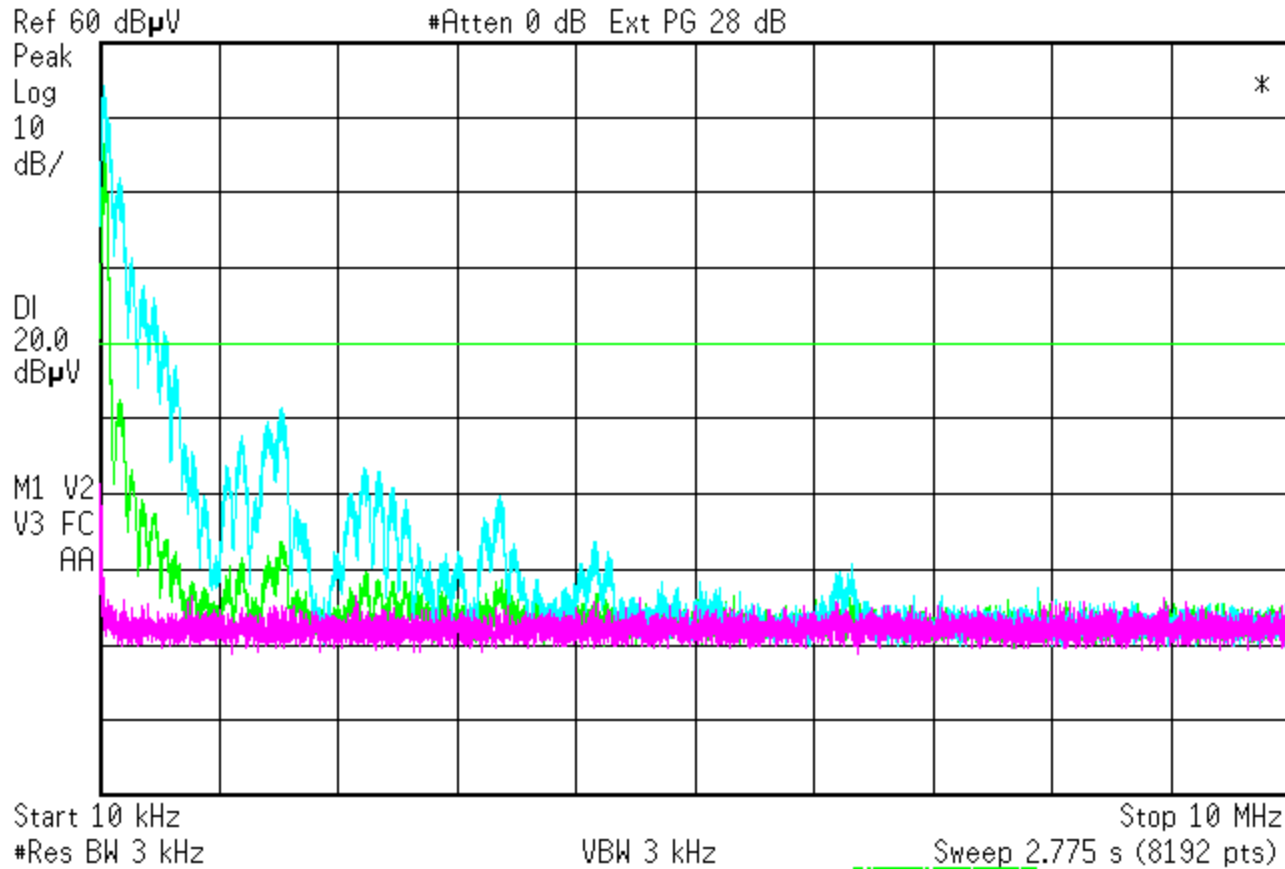
Driven and Unused "Pair to Pair" Mode Current 100 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

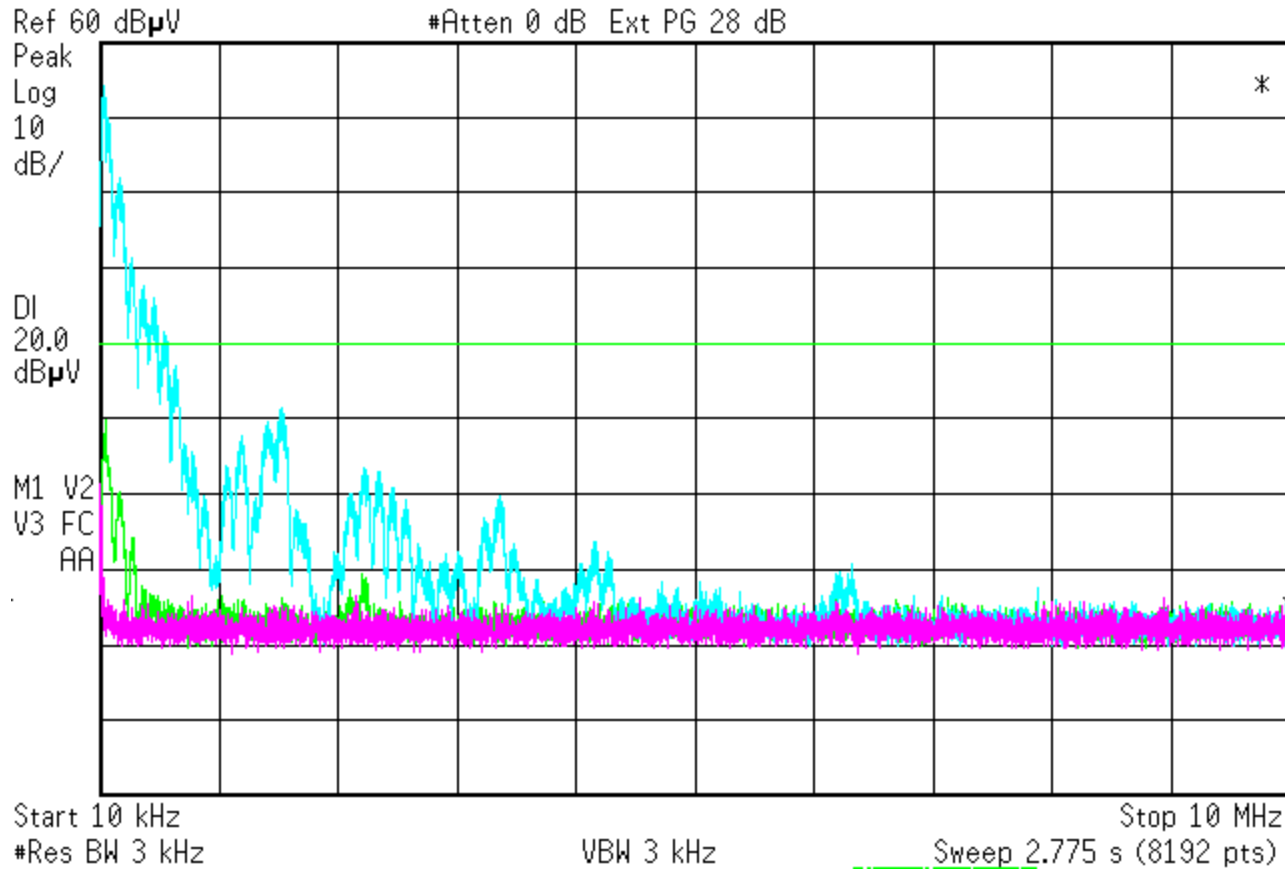
Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-3, On/Off discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

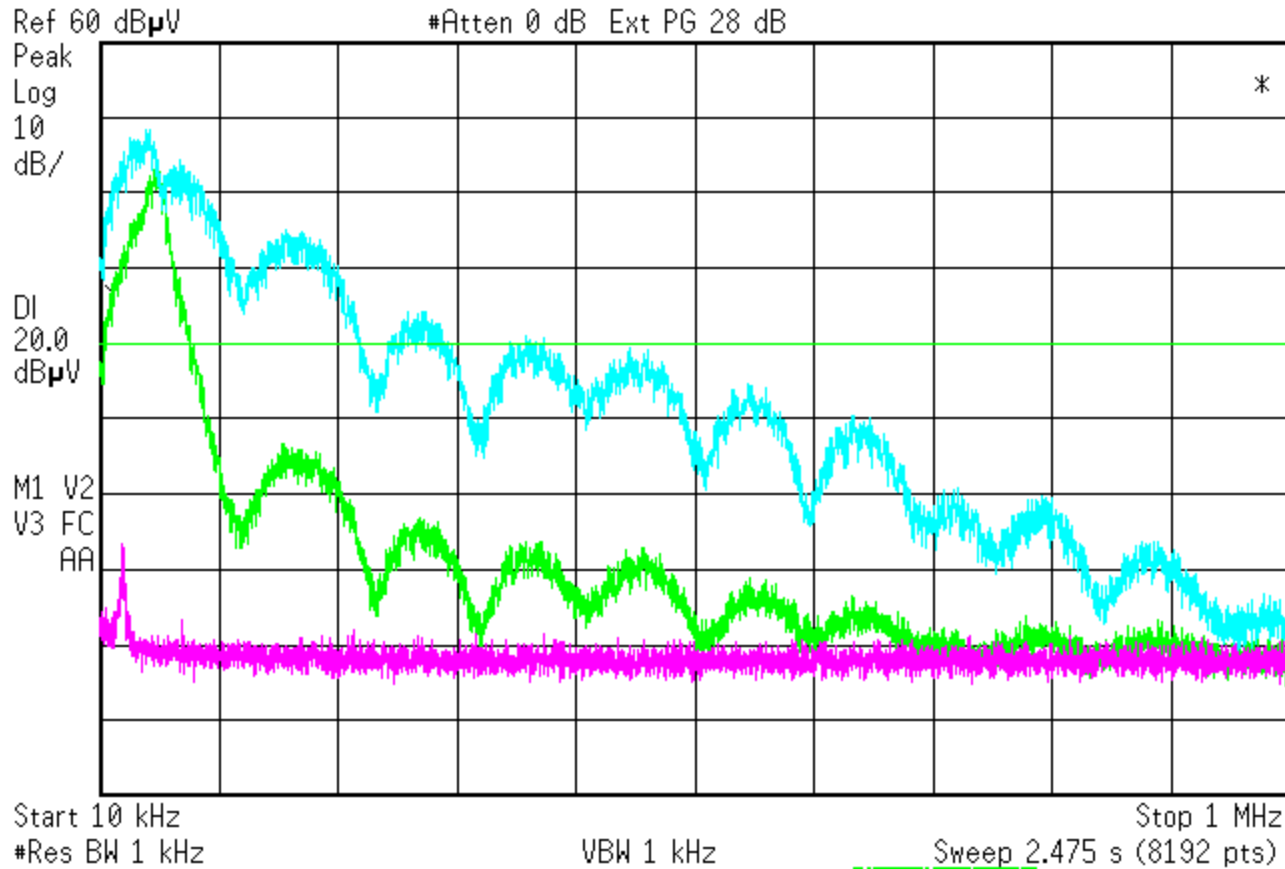
Driven and Unused "Pair to Pair" Mode Current 100 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

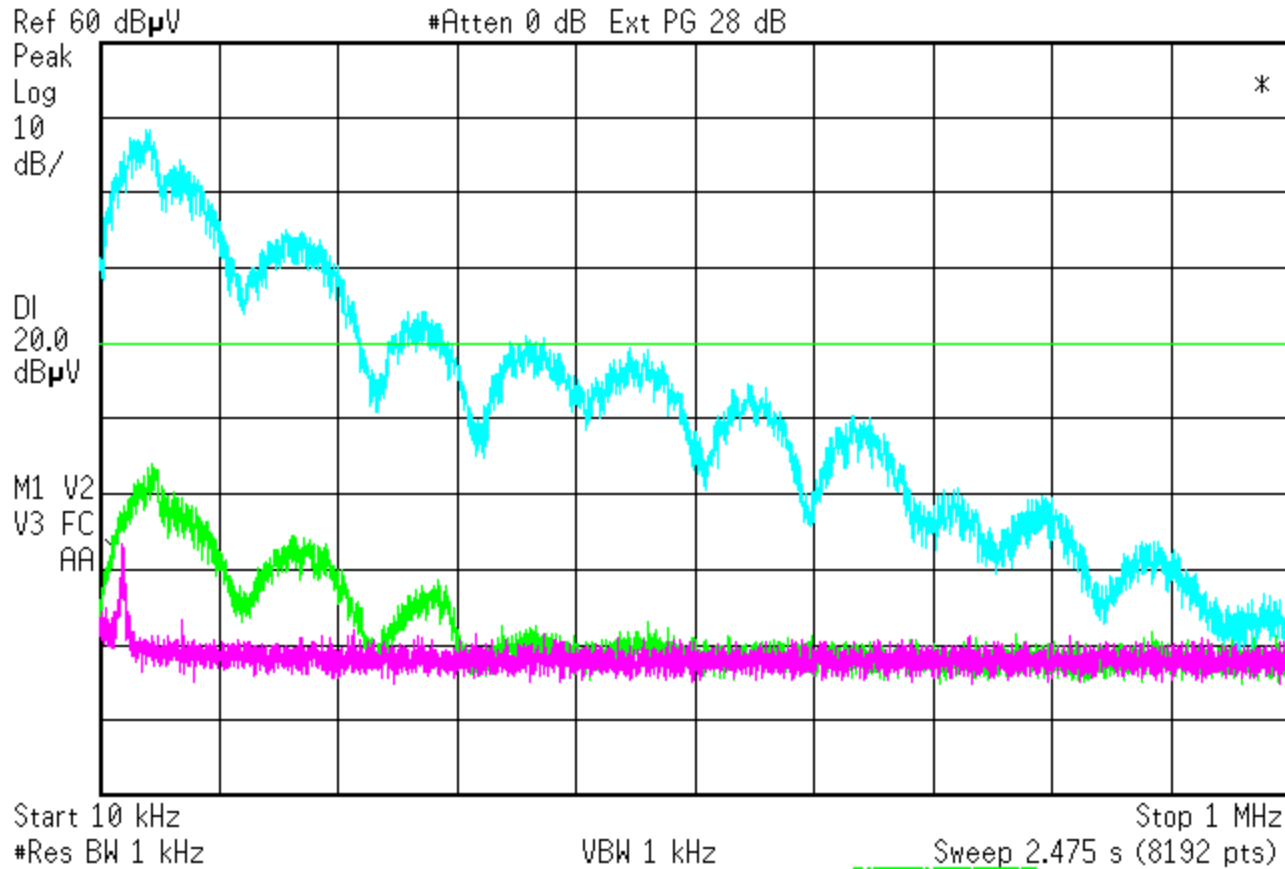
Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

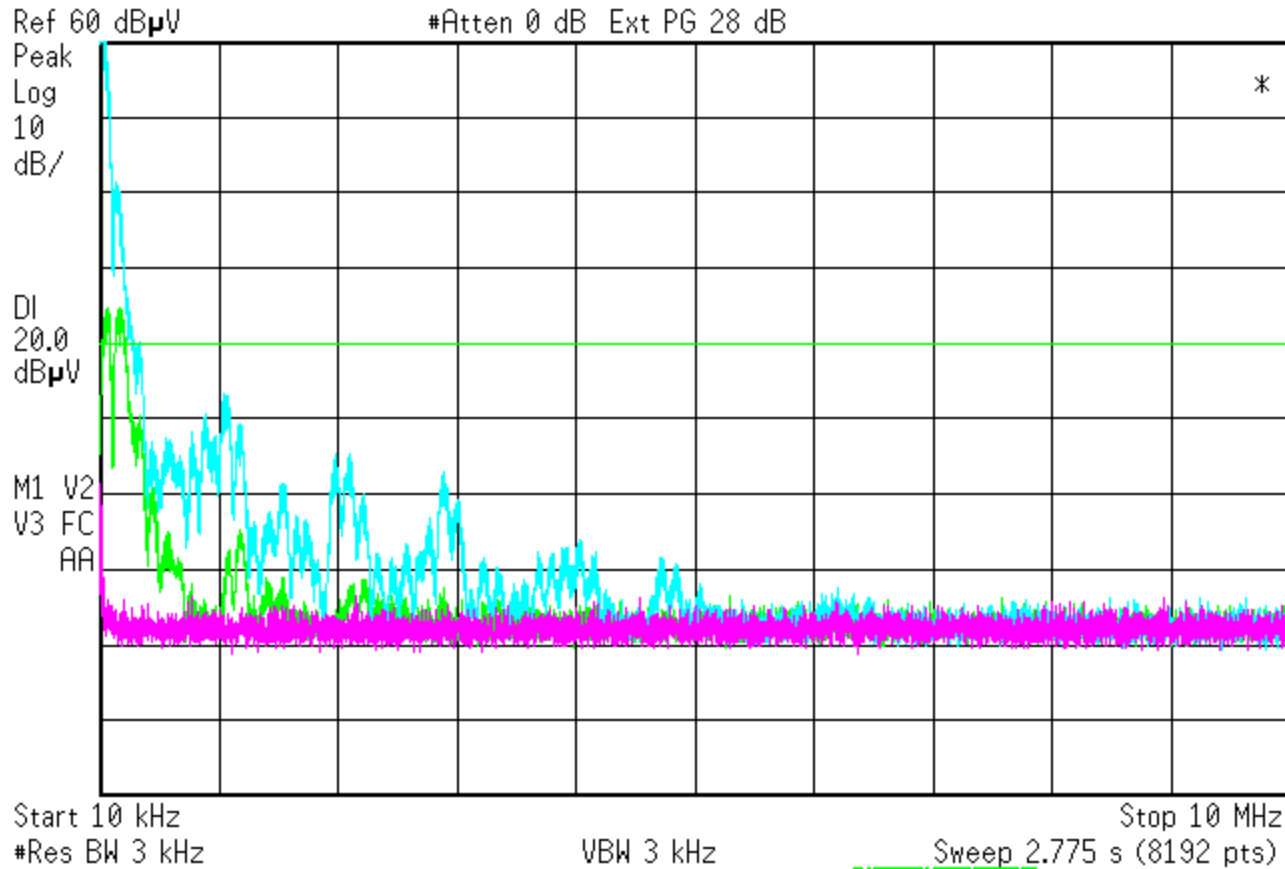
Driven and Unused "Pair to Pair" Mode Current 100 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

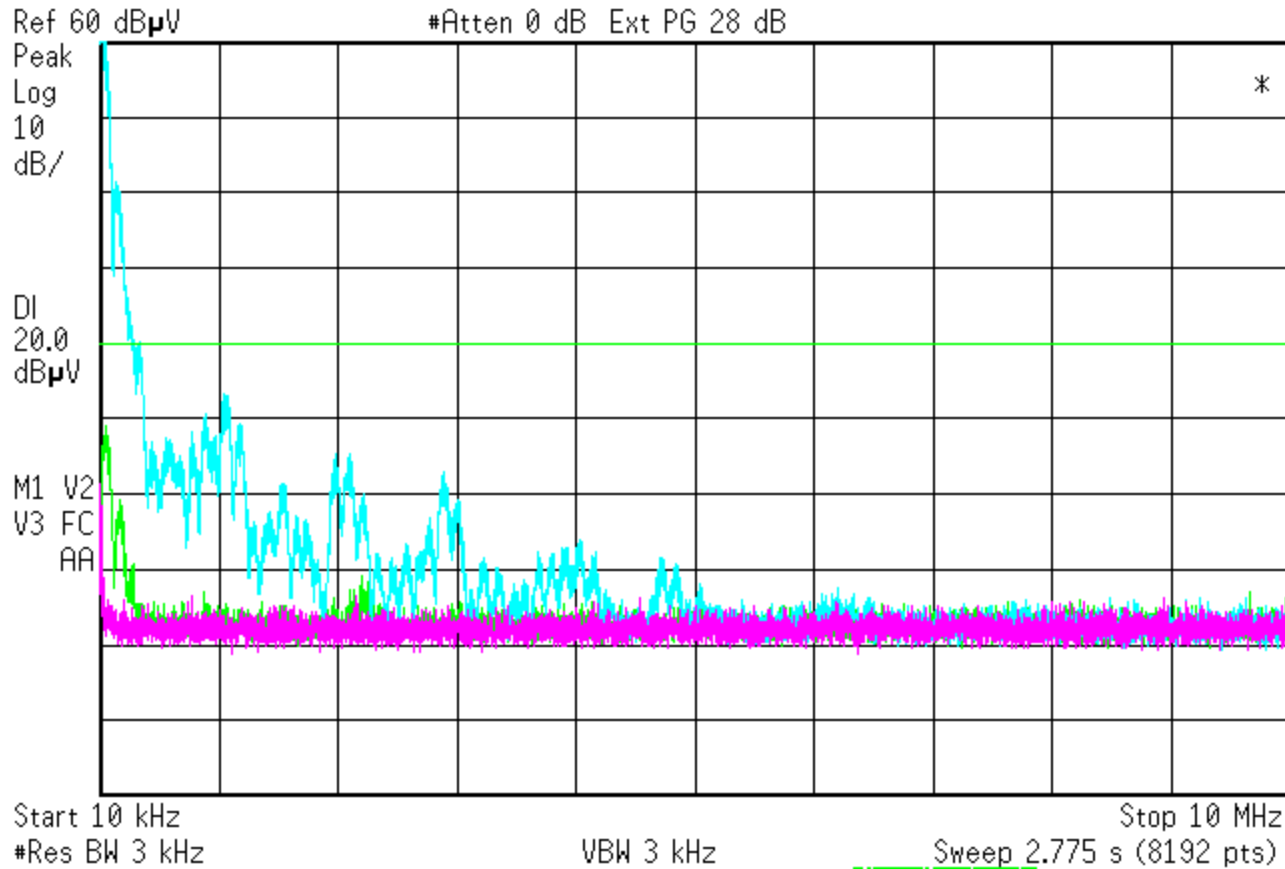
Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-3, Open Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

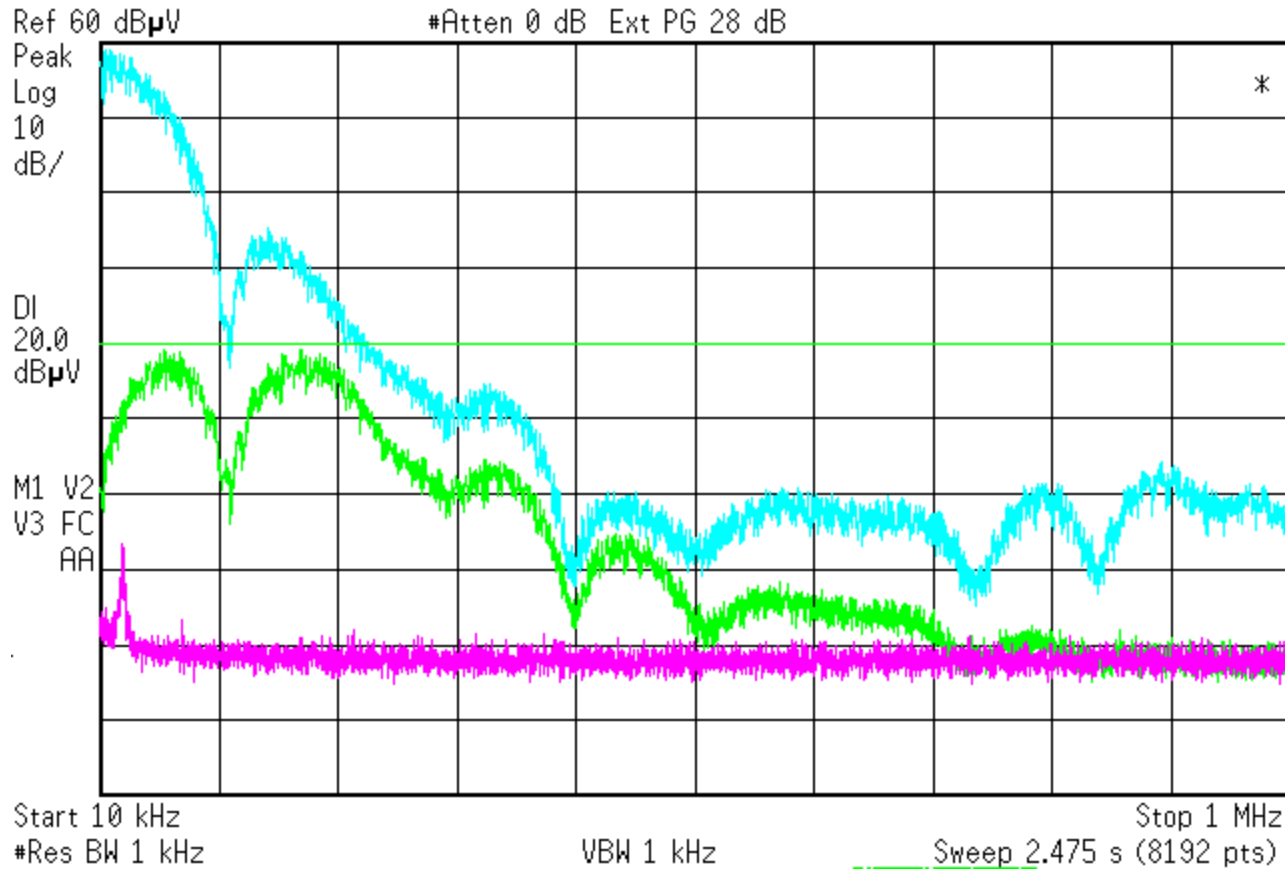
Driven and Unused "Pair to Pair" Mode Current 100 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

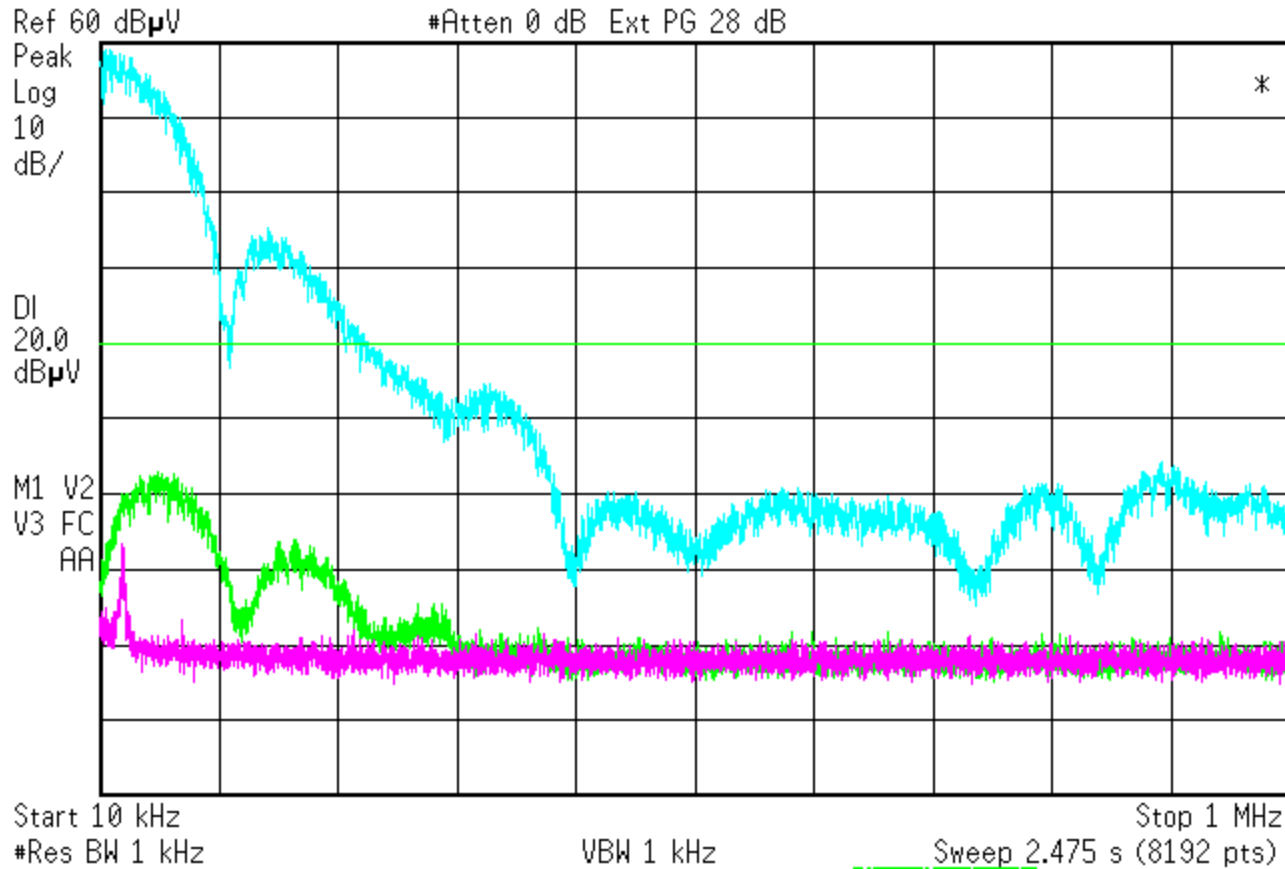
Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

Primary driving pair to pair mode	light blue
Unused pair to pair mode	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Driven and Unused "Pair to Pair" Mode Current 100 meter CAT-3, Shorted Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-3, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

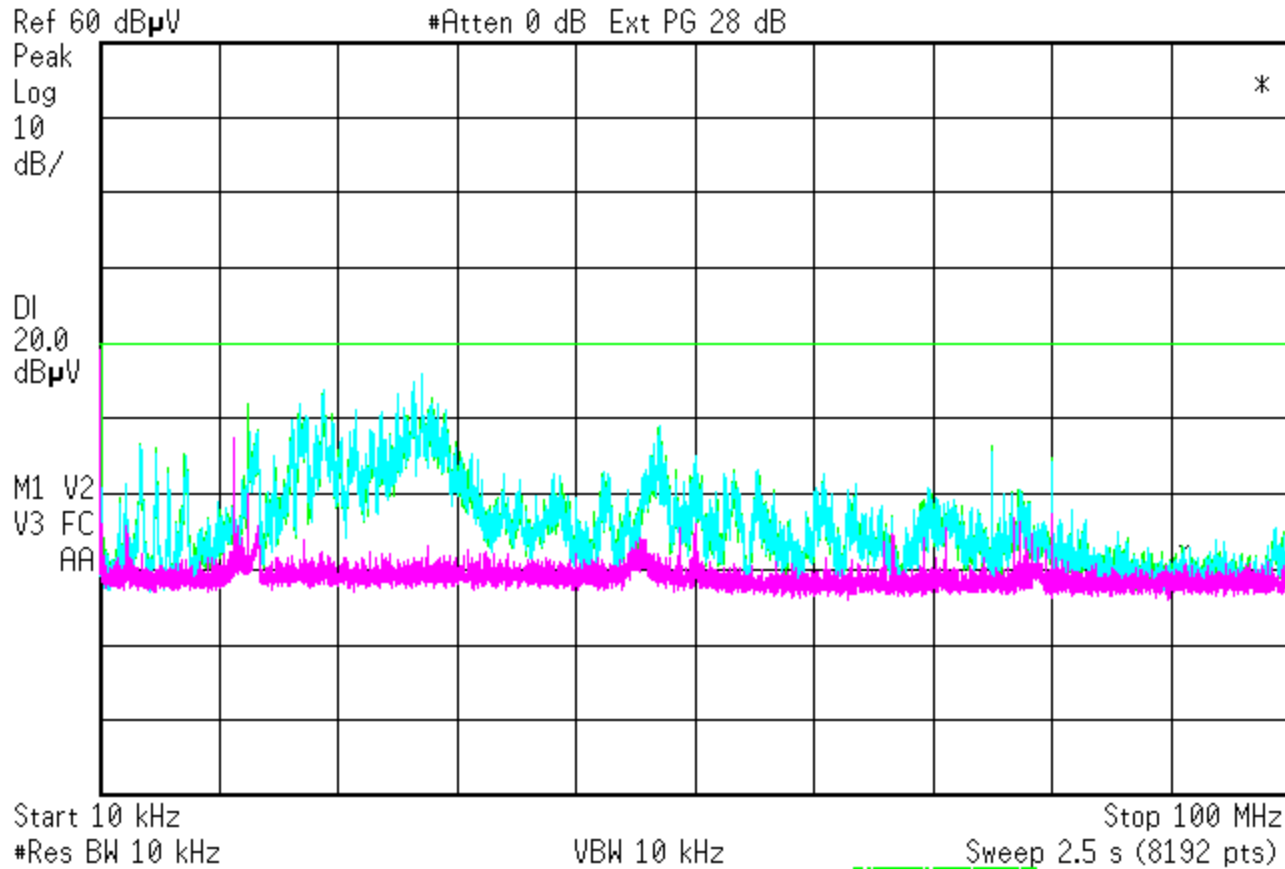
Primary driving pair to pair mode	light blue
Common mode	light green
Baseline	magenta
Display Line, 20 dB μ V	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-3, Shorted Load discovery, (0 dB μ A = 0 dB μ V)

CAT-6 Cable Tests

100Base-T Traffic,
with and without discovery:

100 meter CAT-6

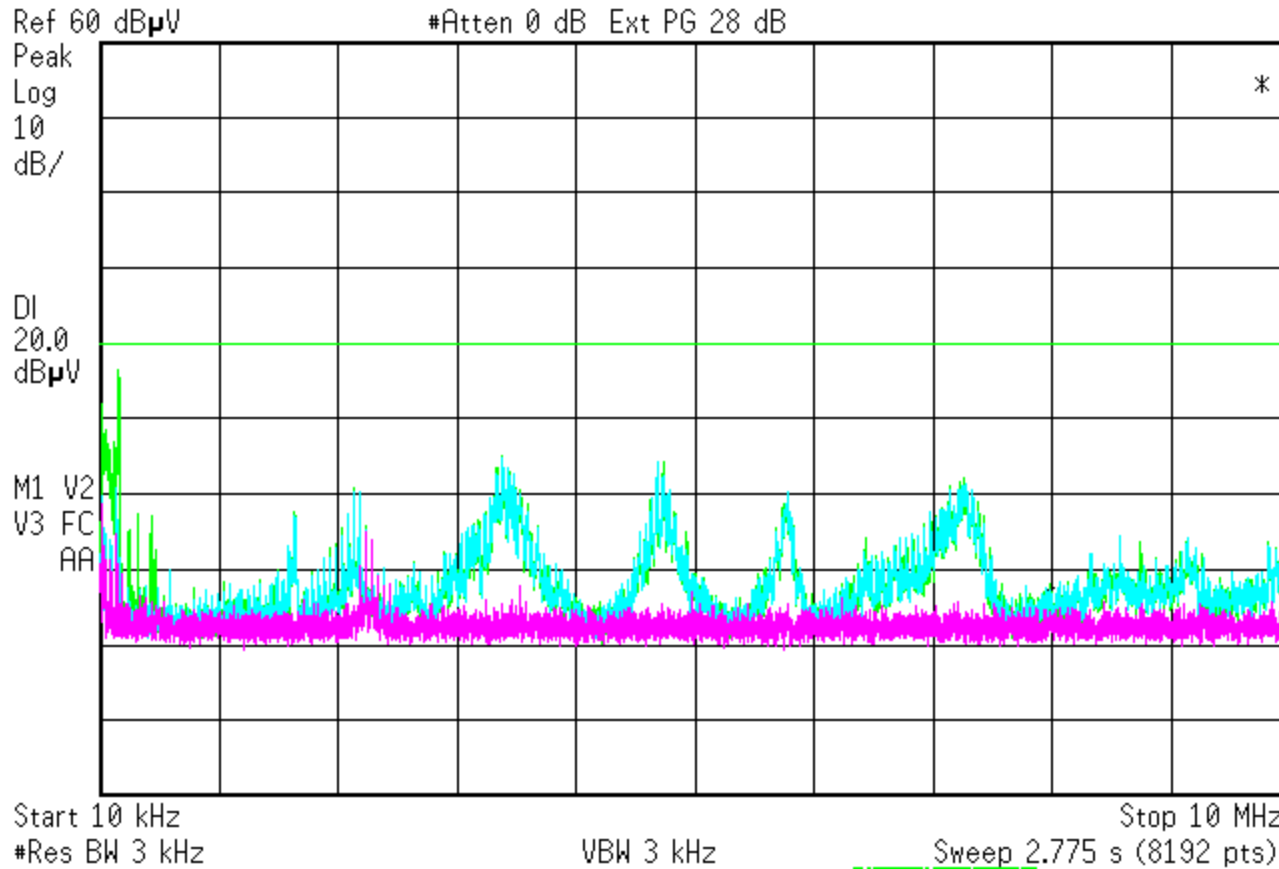


100 meter CAT-6, 100 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-6, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

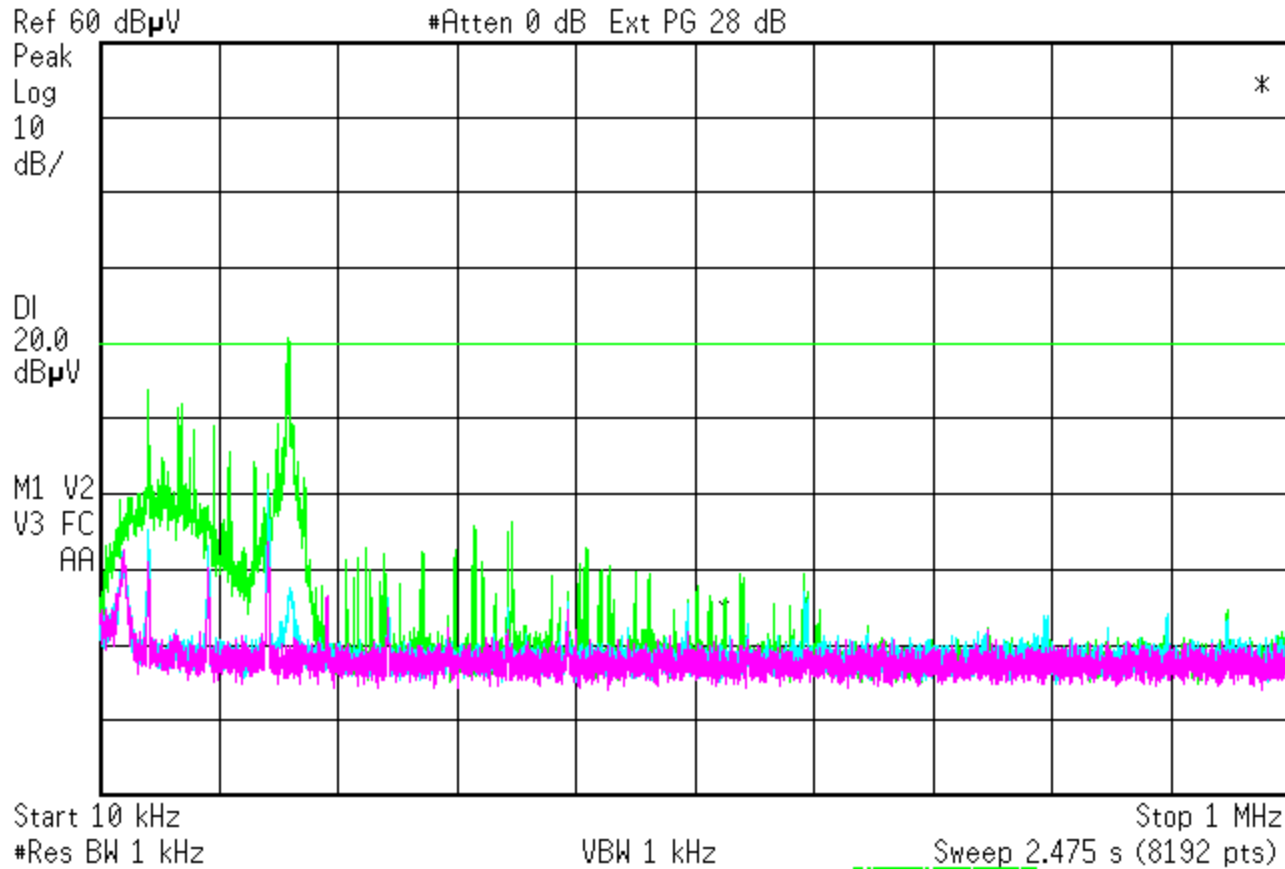


100 meter CAT-6, 100 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-6, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)



100 meter CAT-6, 100 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

100Base-T only	light blue
100Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

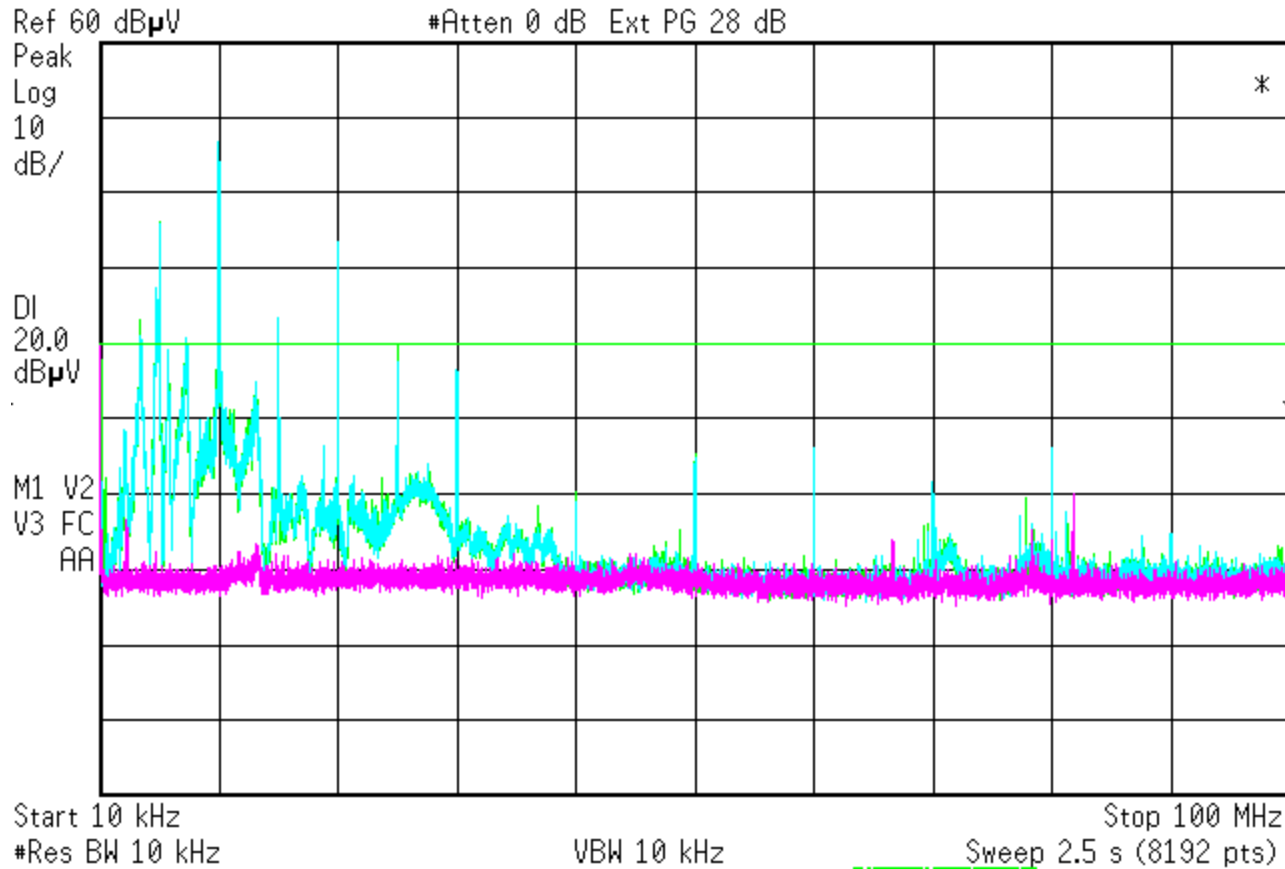
Common Mode Current

100 meter CAT-6, 100Base-T, diode discovery, (0 dBuA = 0 dBuV)

CAT-6 Cable Tests (Cont.)

10Base-T, with and without discovery:

100 meter CAT-6

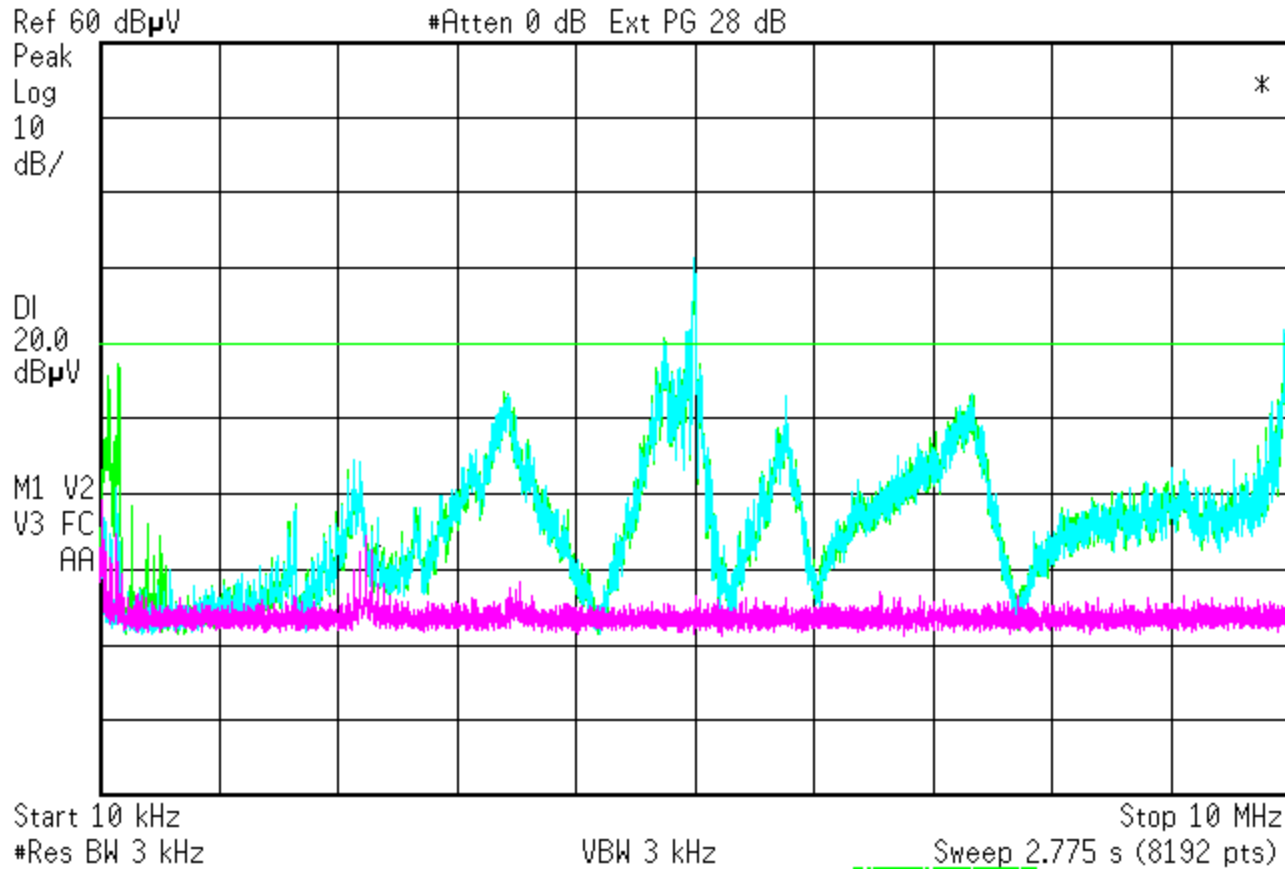


100 meter CAT-6, 10 Mbps, full duplex, with and without on/off discovery
(each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-6, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

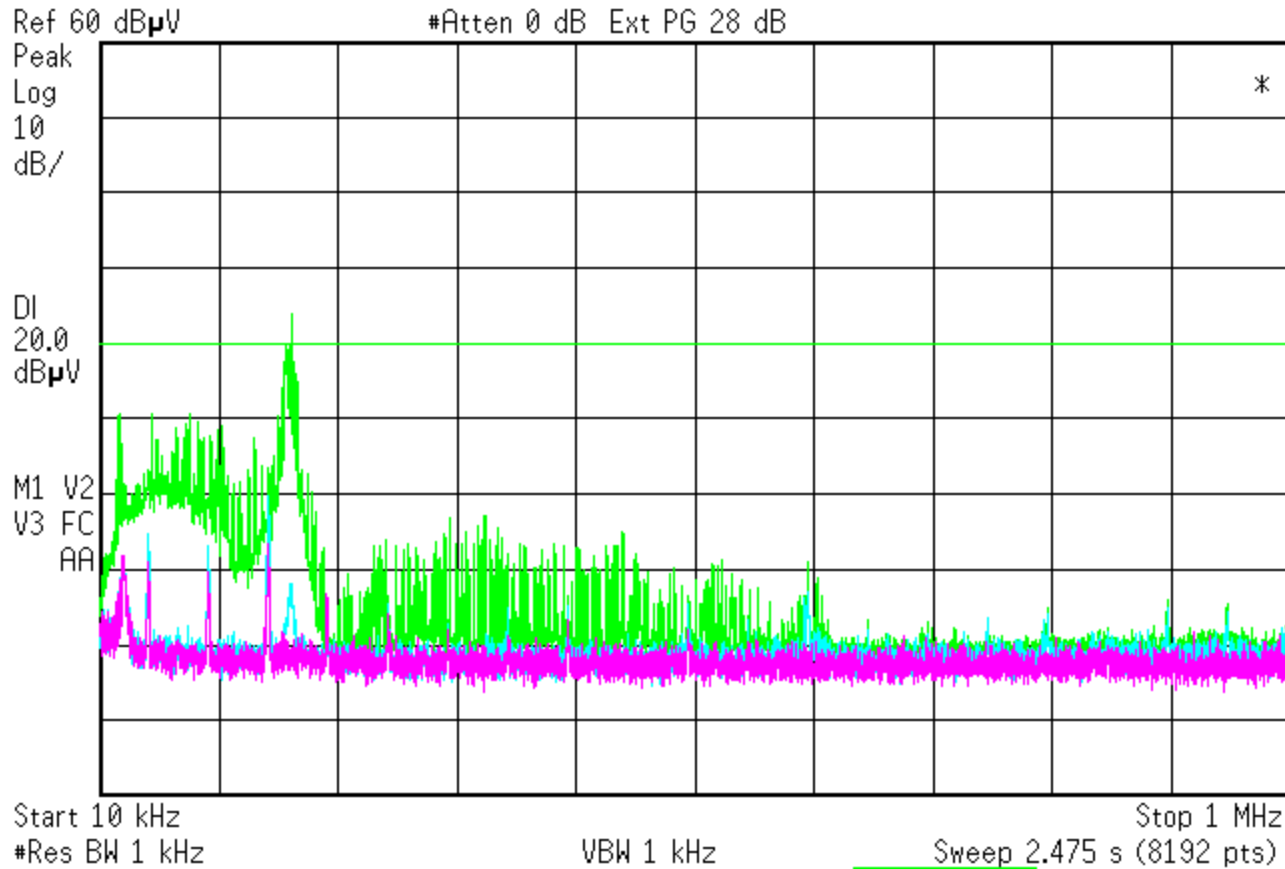


100 meter CAT-6, 10 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

10Base-T only	light blue
10Base-T and discovery on/off	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current

100 meter CAT-6, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)



100 meter CAT-6, 10 Mbps, full duplex, with and without on/off discovery
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

- 10Base-T only light blue
- 10Base-T and discovery on/off light green
- baseline magenta
- Display Line, 20 dBuV light green

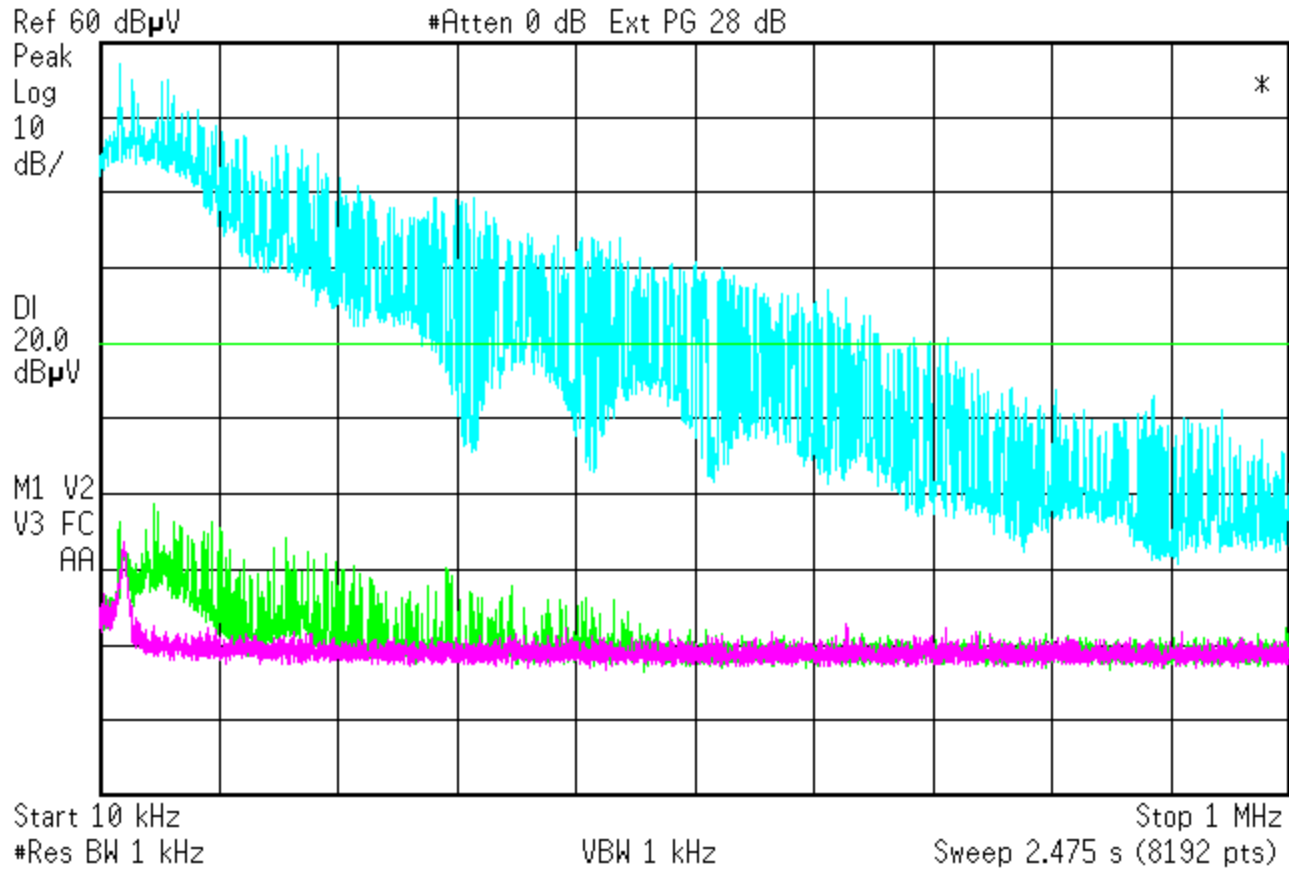
Common Mode Current

100 meter CAT-6, 10Base-T, diode discovery, (0 dBuA = 0 dBuV)

CAT-6 Cable Tests, (Cont.)

100 meter CAT-6, Discovery only:

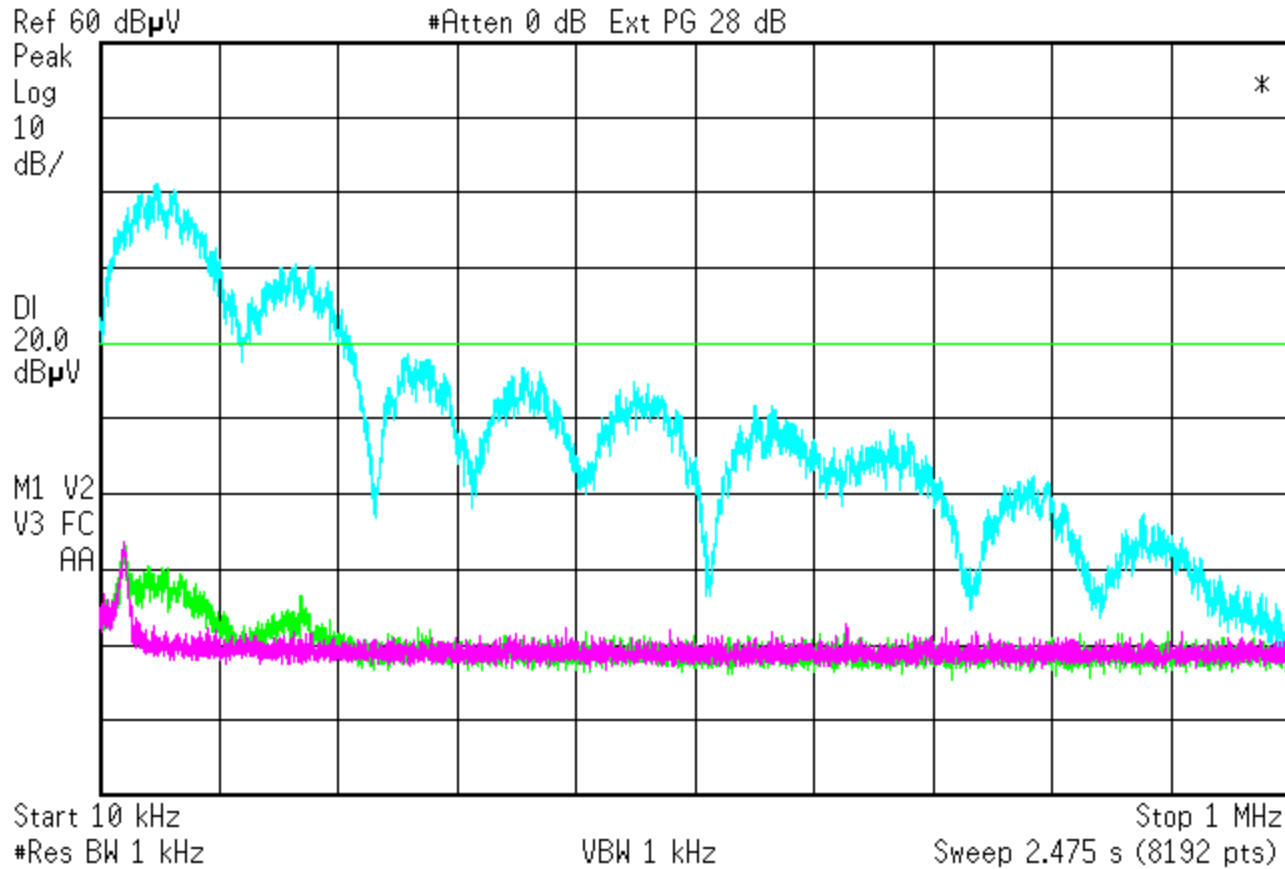
- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



100 meter CAT-6, one proto, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

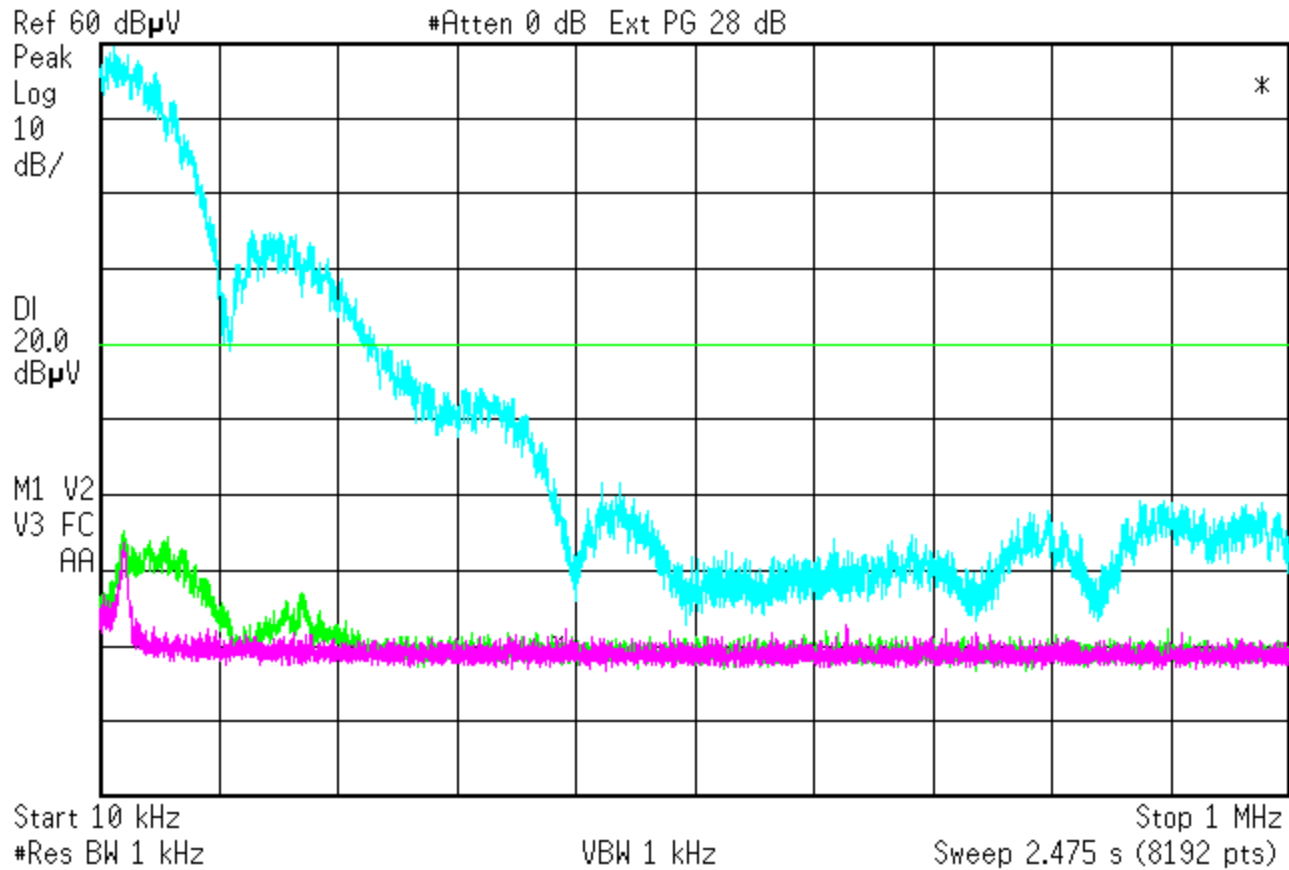
Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-6, On/Off discovery, (0 dBuA = 0 dBuV)



100 meter CAT-6, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-6, Open Load discovery, (0 dBuA = 0 dBuV)



100 meter CAT-6, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

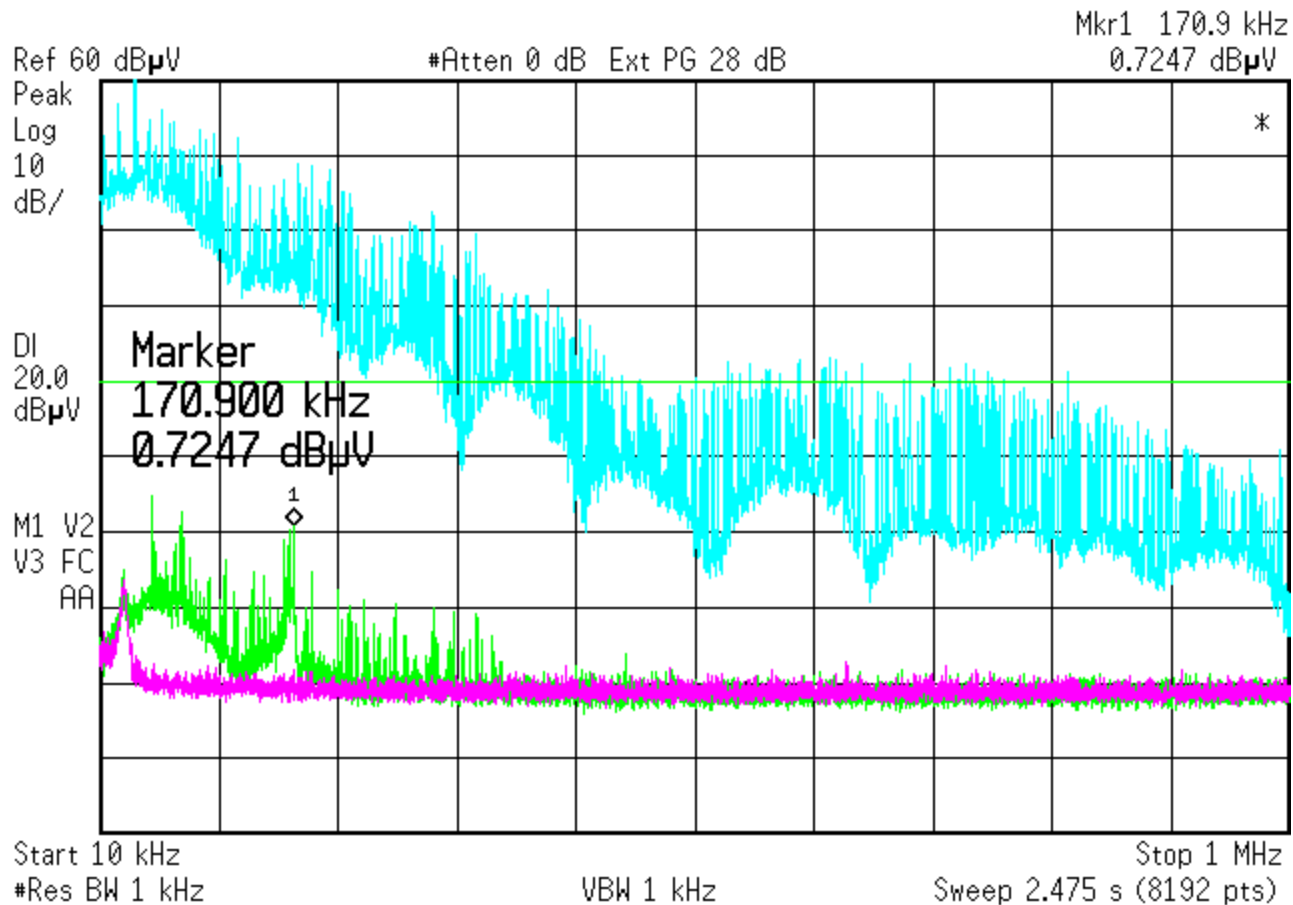
pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 100 meter CAT-6, Shorted Load discovery, (0 dBuA = 0 dBuV)

CAT-6 Cable Tests, (Cont.)

200 meter CAT-6, Discovery only:

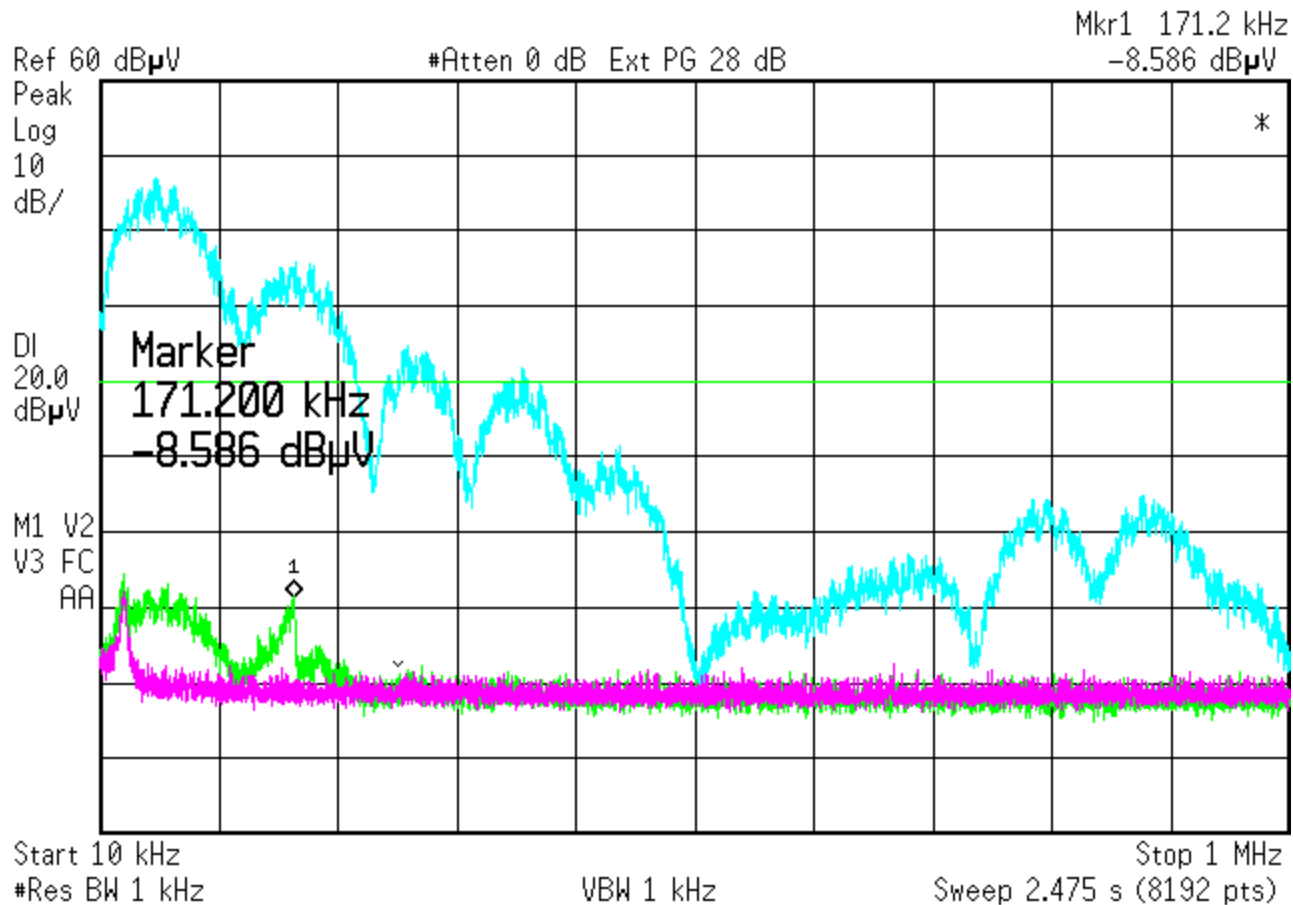
- Repeating On/Off Discovery Process
- Open Load
- Shorted Load



200 meter CAT-6, one proto, on/off disc
(each trace taken with Max Hold, 5-10 minutes of acquisition)

pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

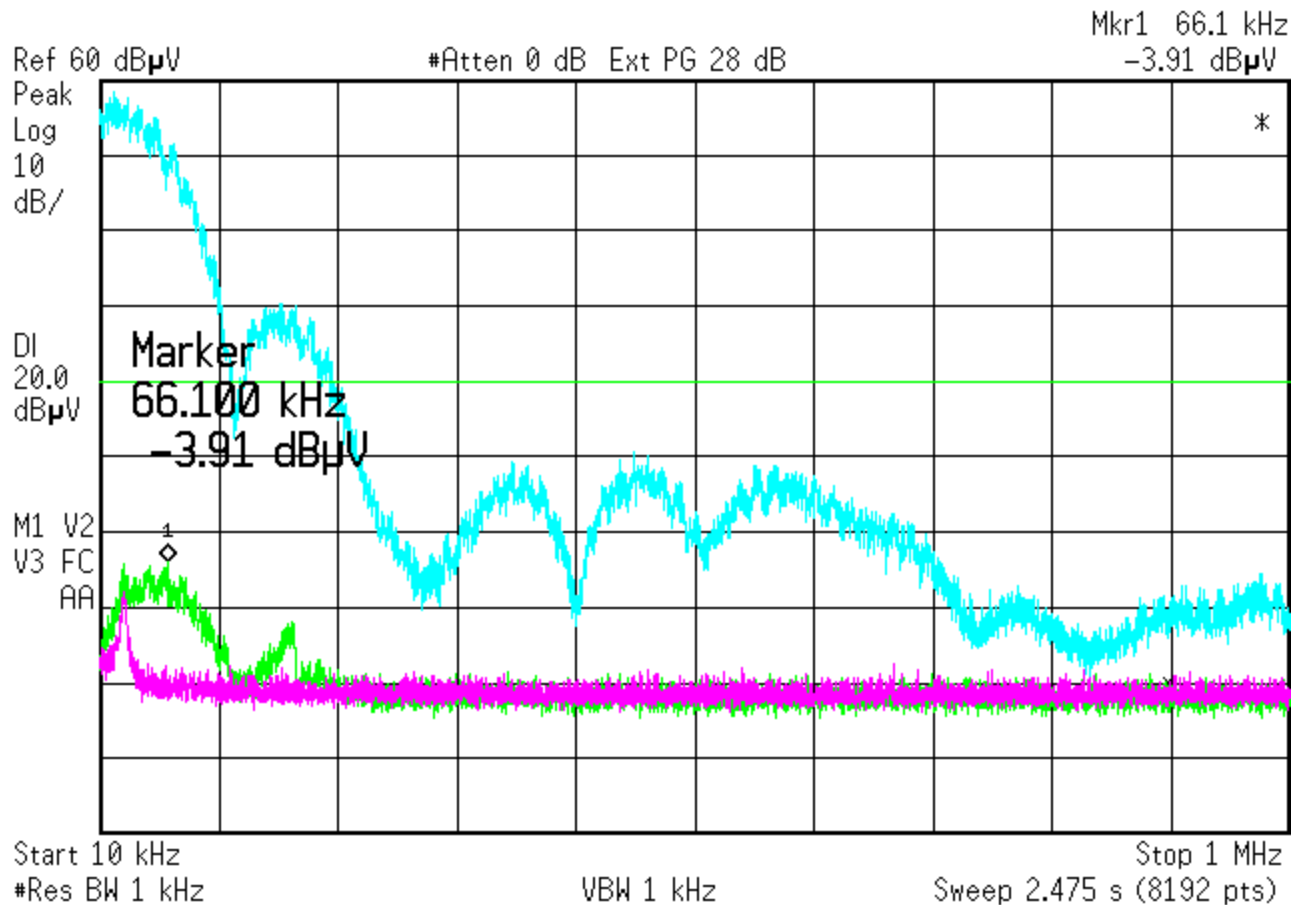
Common Mode Current and Driven "Pair to Pair" Mode Current 200 meter CAT-6, On/Off discovery, (0 dBuA = 0 dBuV)



200 meter CAT-6, one proto, open load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 200 meter CAT-6, Open Load discovery, (0 dBuA = 0 dBuV)



200 meter CAT-6, one proto, shorted load
(each trace taken with Max Hold, 5-10 minutes of acquisition)

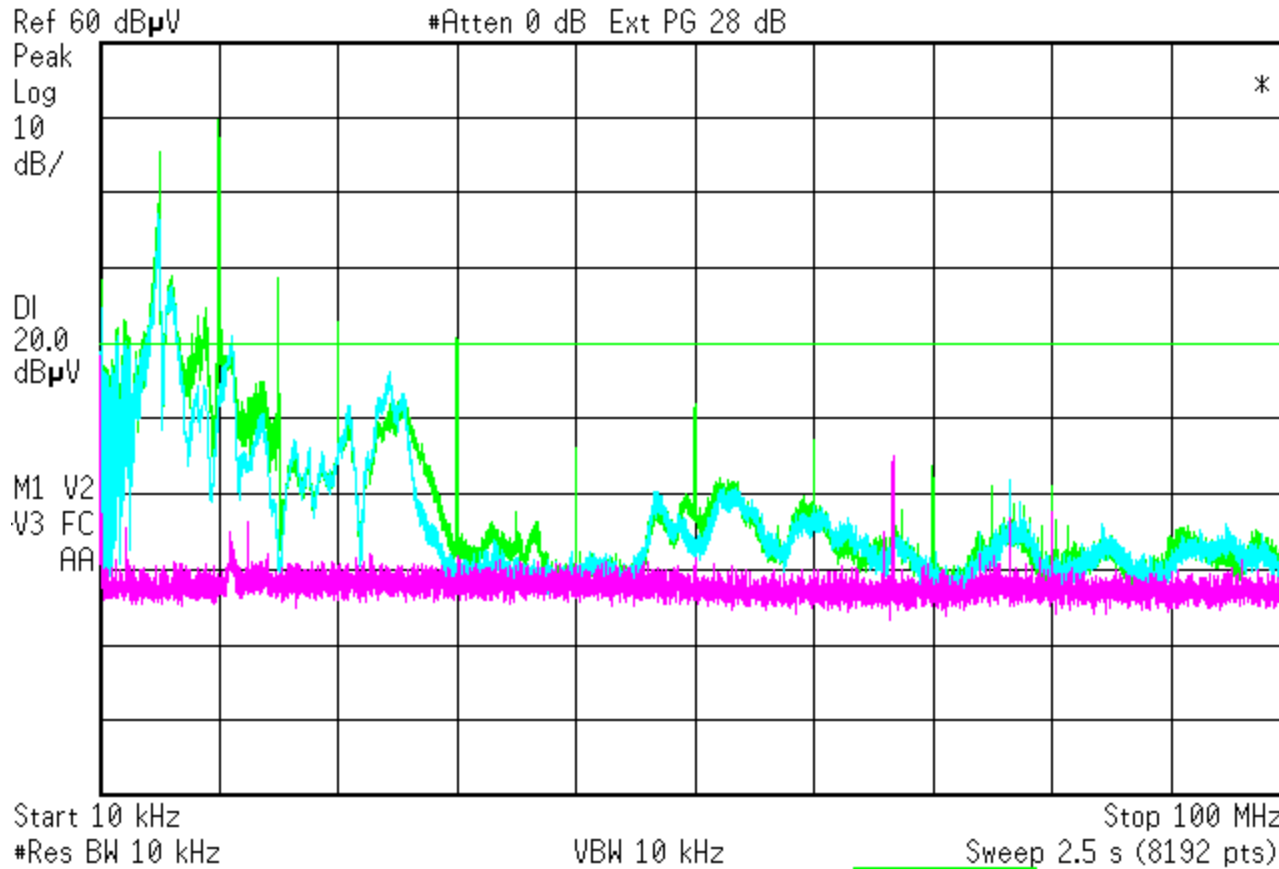
pair to pair mode	light blue
common mode	light green
baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current and Driven "Pair to Pair" Mode Current 200 meter CAT-6, Shorted Load discovery, (0 dBuA = 0 dBuV)

DTE Power and Data Together

100 meter CAT-3:

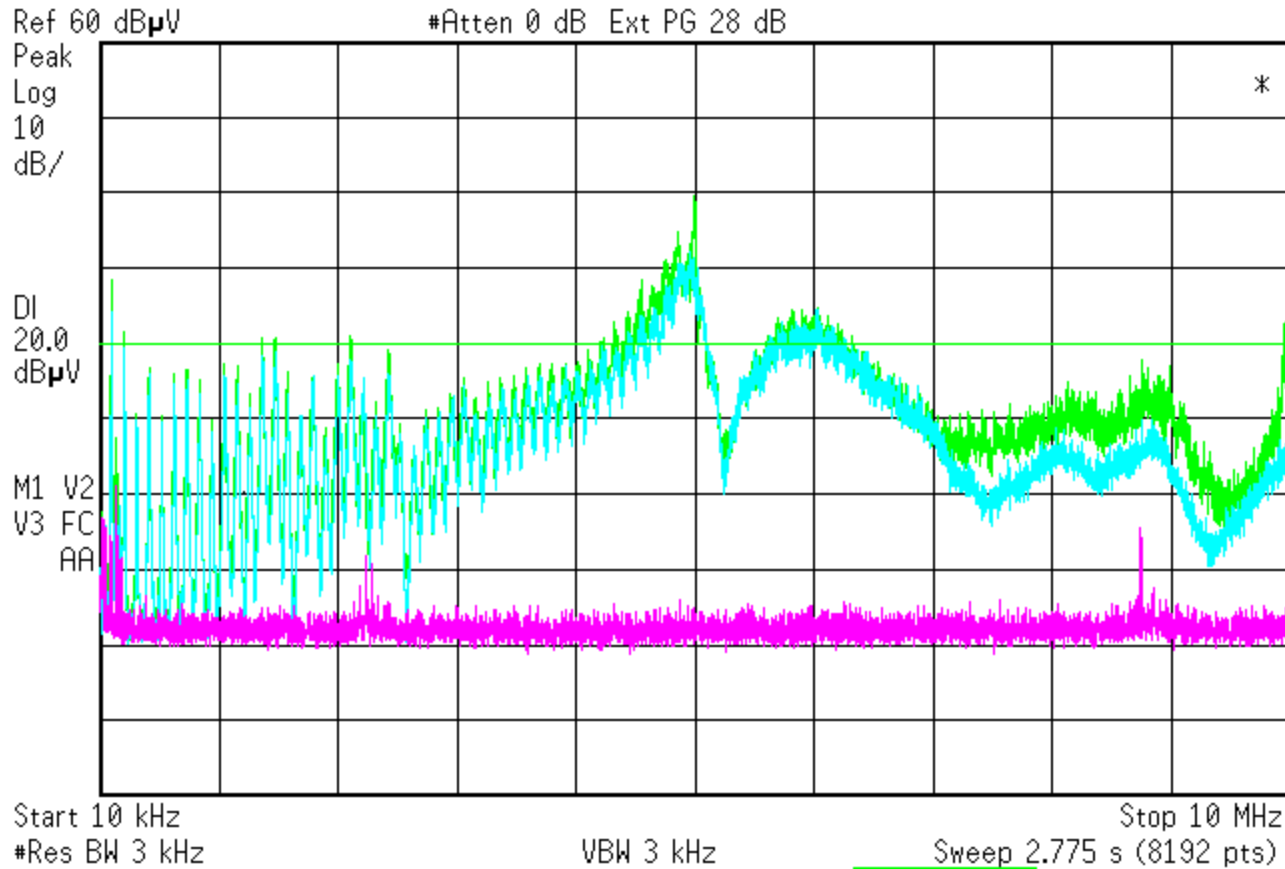
- DTE Power Only
- DTE Power with 10Base-T



Signal Pair Prototype 100 meter CAT-3, DTE Power, with and without 10Base-T
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

DTE power only	light blue
10Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

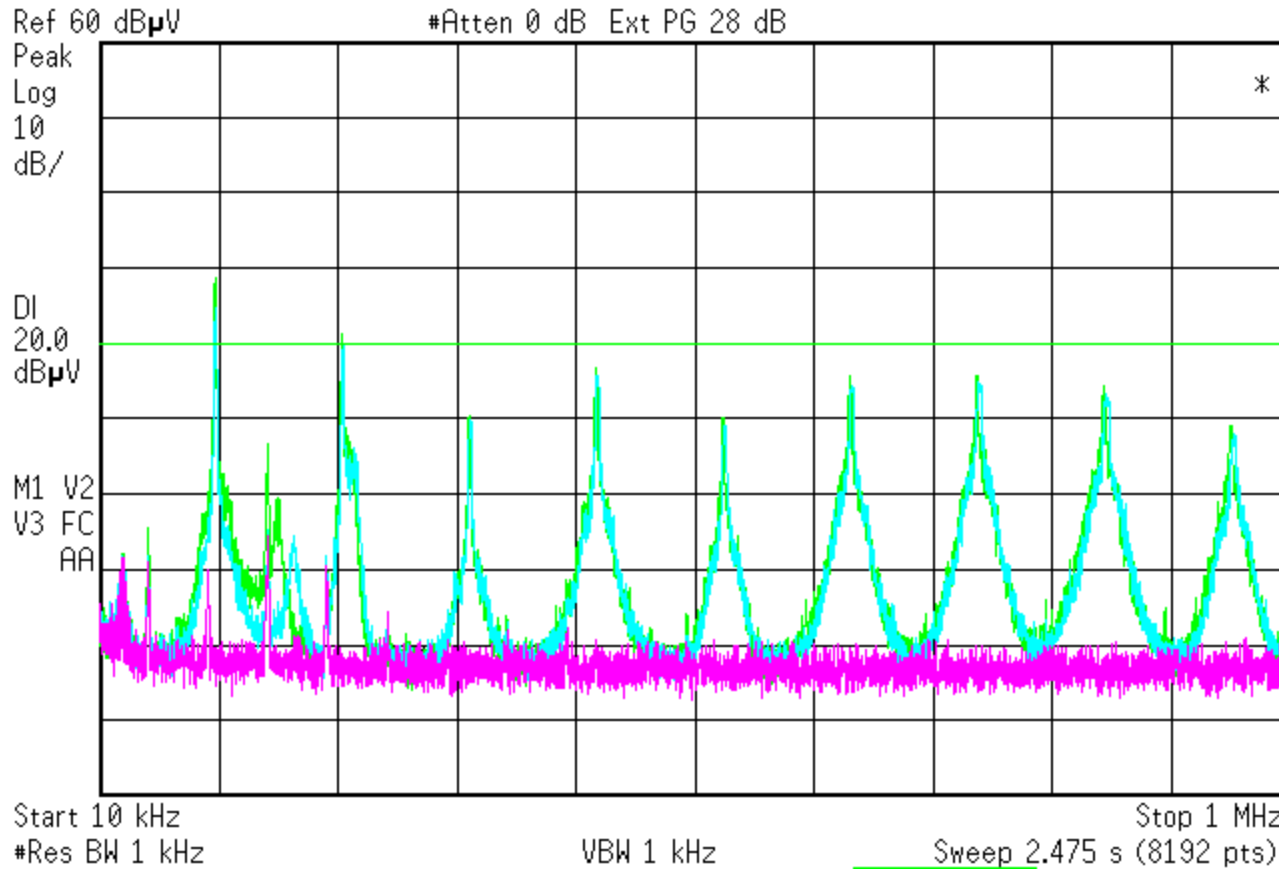
Common Mode Current
 100 meter CAT-3, DTE Power, with and without 10Base-T, (0 dBuA = 0 dBuV)



Signal Pair Prototype 100 meter CAT-3, DTE Power, with and without 10Base-T
(each trace taken with Max Hold, 5-10 minutes of acquisition)

DTE power only	light blue
10Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current
100 meter CAT-3, DTE Power, with and without 10Base-T, (0 dBuA = 0 dBuV)



Signal Pair Prototype 100 meter CAT-3, DTE Power, with and without 10Base-T
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

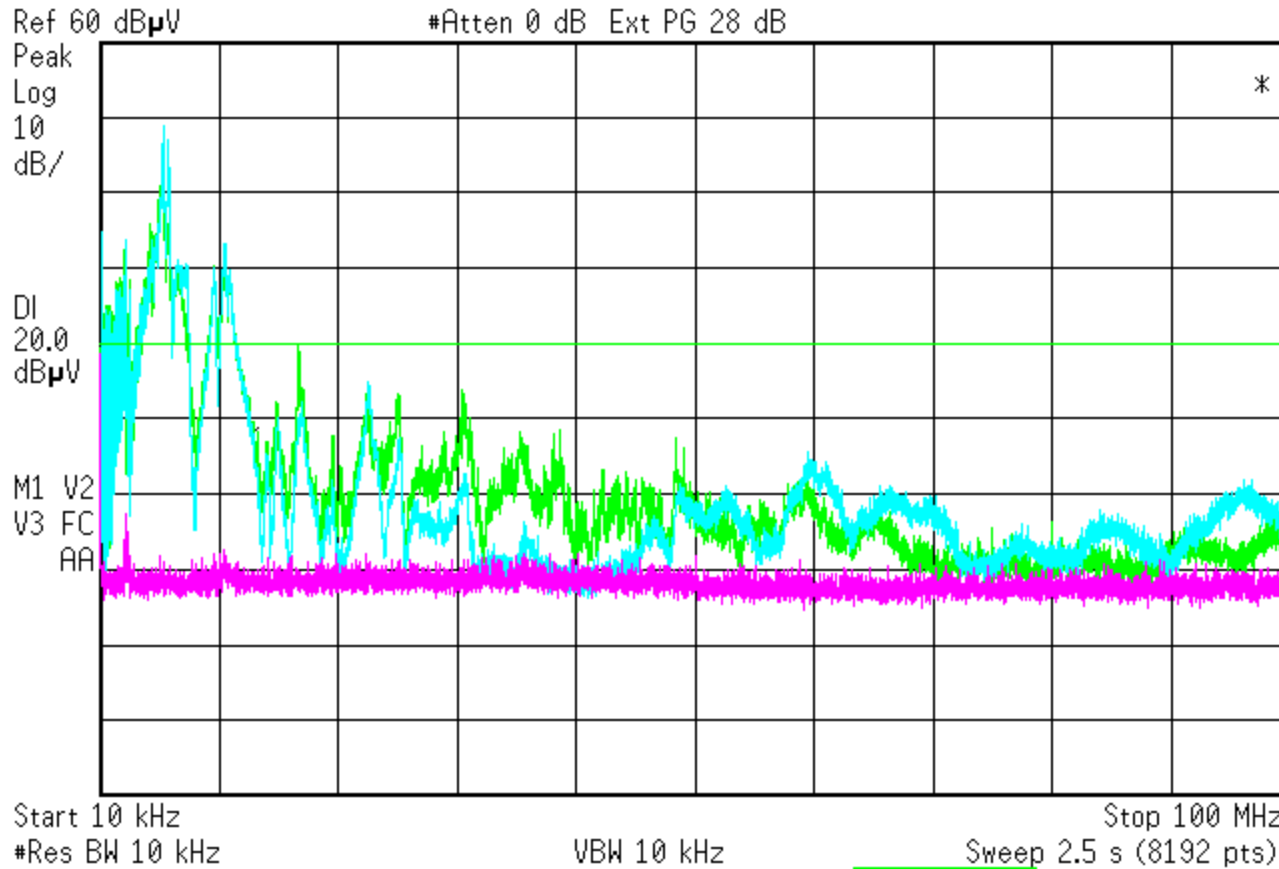
DTE power only	light blue
10Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current
 100 meter CAT-3, DTE Power, with and without 10Base-T, (0 dBuA = 0 dBuV)

DTE Power and Data Together (cont.)

100 meter CAT-5:

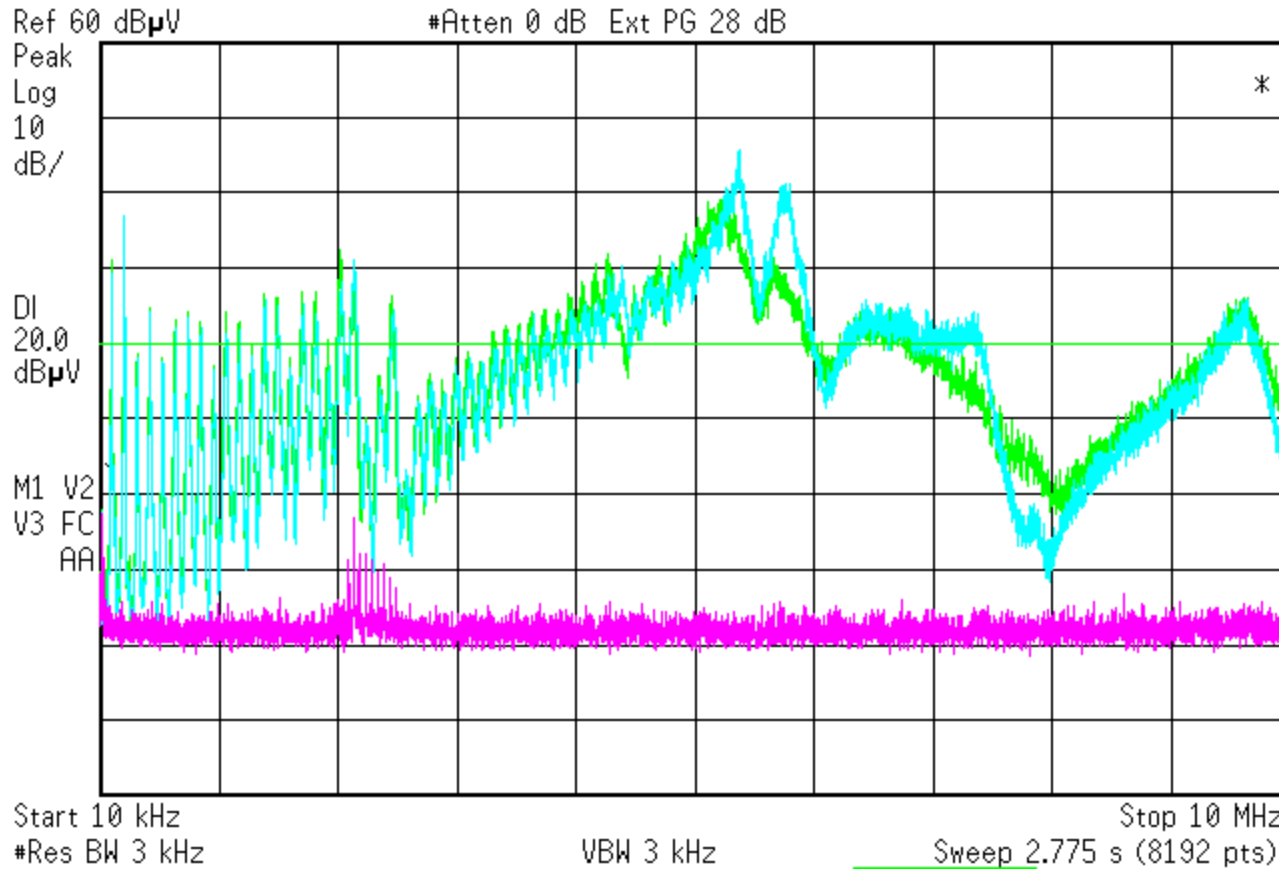
- DTE Power Only
- DTE Power with 100Base-T



Signal Pair Prototype 105 meter CAT-5, DTE Power, with and without 100Base-T
(each trace taken with Max Hold, 5-10 minutes of acquisition)

DTE power only	light blue
100Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

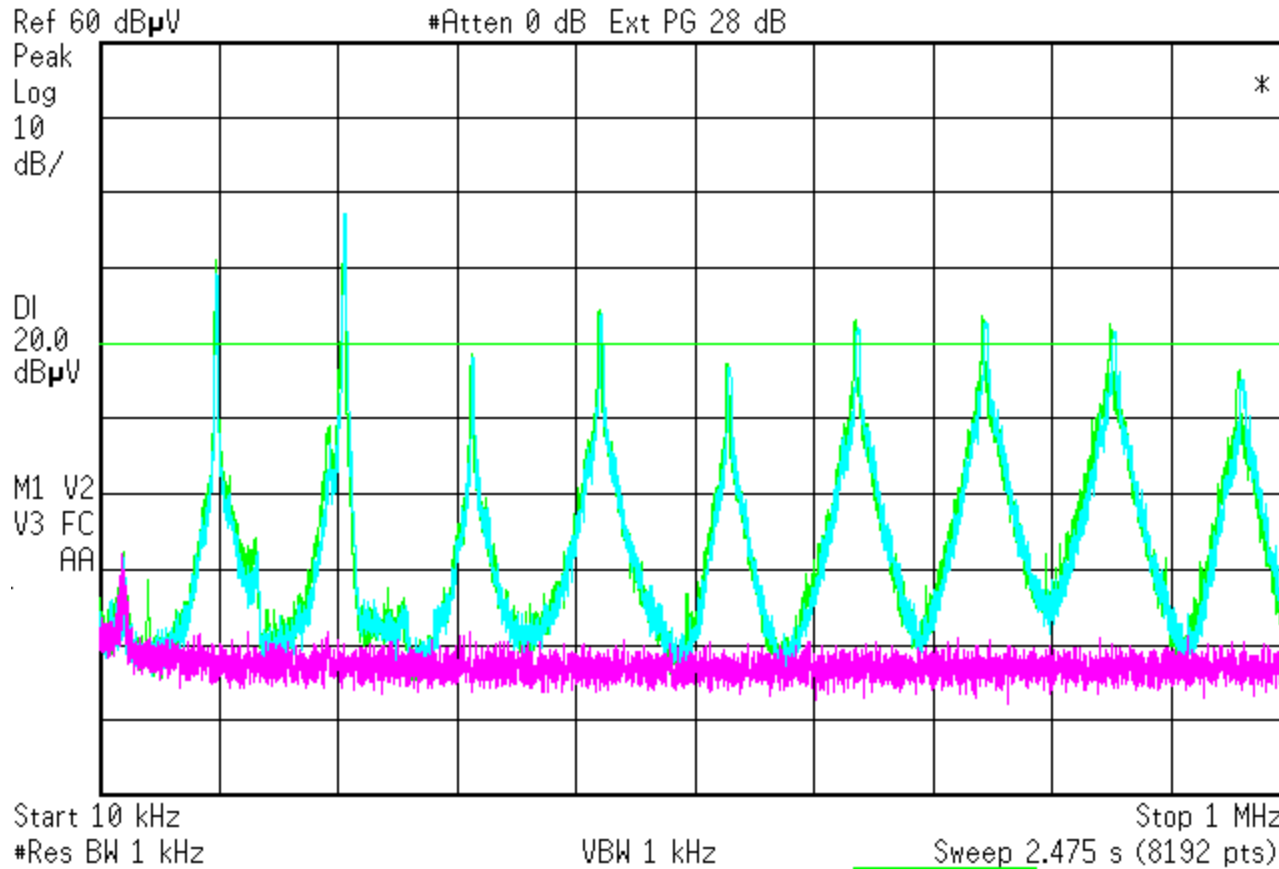
Common Mode Current
100 meter CAT-5, DTE Power, with and without 100Base-T, (0 dBuA = 0 dBuV)



Signal Pair Prototype 105 meter CAT-5, DTE Power, with and without 100Base-T
(each trace taken with Max Hold, 5-10 minutes of acquisition)

DTE power only	light blue
100Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current
100 meter CAT-5, DTE Power, with and without 100Base-T, (0 dBuA = 0 dBuV)



Signal Pair Prototype 105 meter CAT-5, DTE Power, with and without 100Base-T
(each trace taken with Max Hold, 5-10 minutes of acquisition)

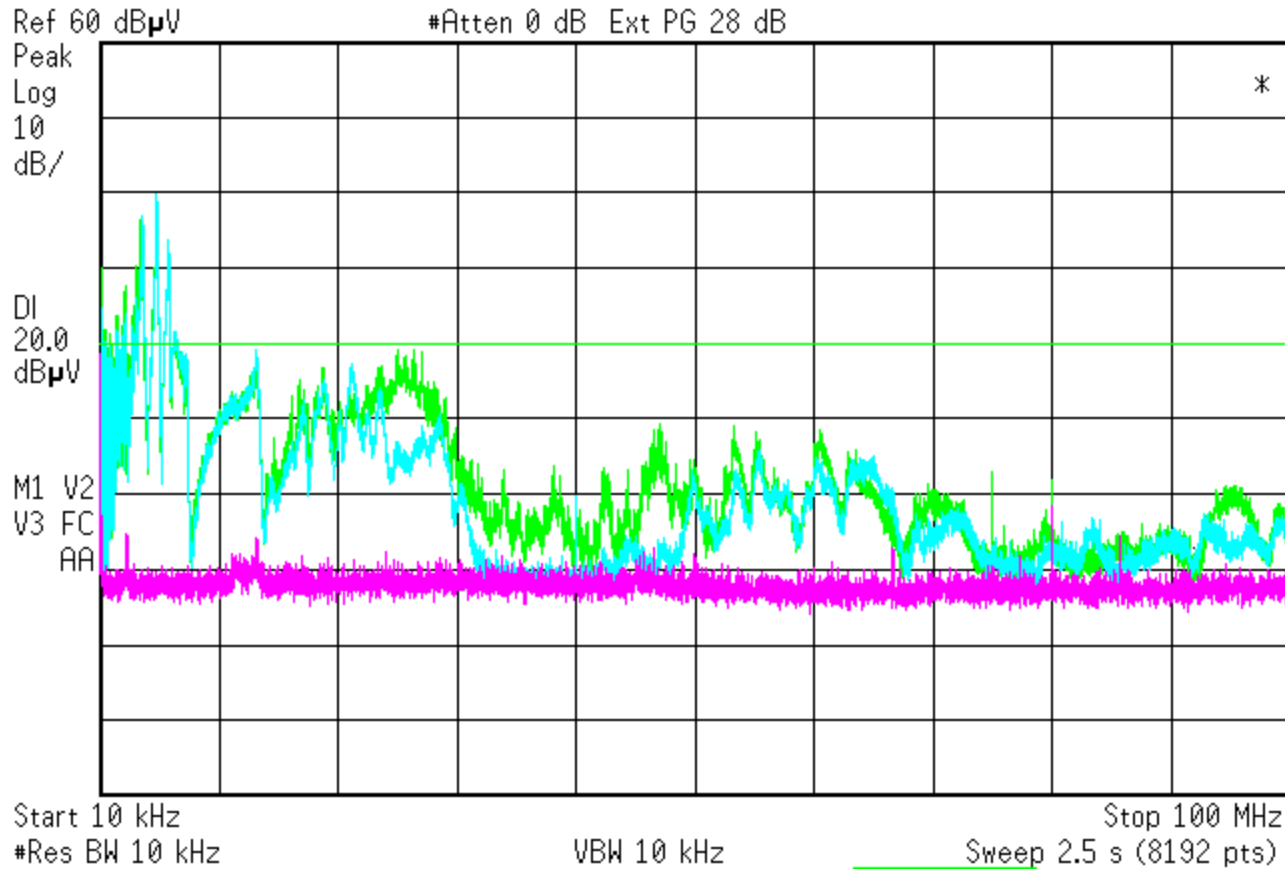
DTE power only	light blue
100Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current
100 meter CAT-5, DTE Power, with and without 100Base-T, (0 dBuA = 0 dBuV)

DTE Power and Data Together (cont.)

100 meter CAT-6:

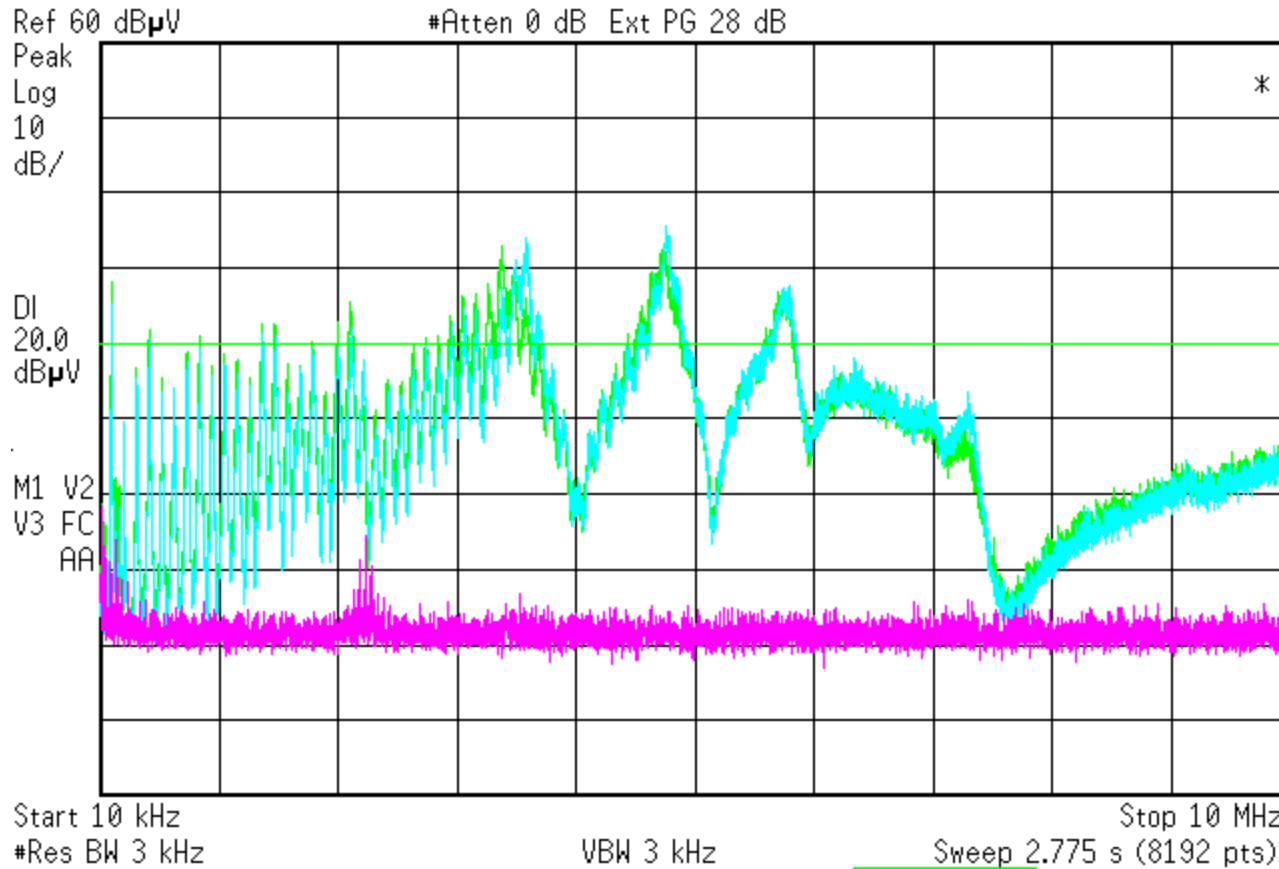
- DTE Power Only
- DTE Power with 100Base-T



Signal Pair Prototype 105 meter CAT-6, DTE Power, with and without 100Base-T
(each trace taken with Max Hold, 5-10 minutes of acquisition)

DTE power only	light blue
100Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

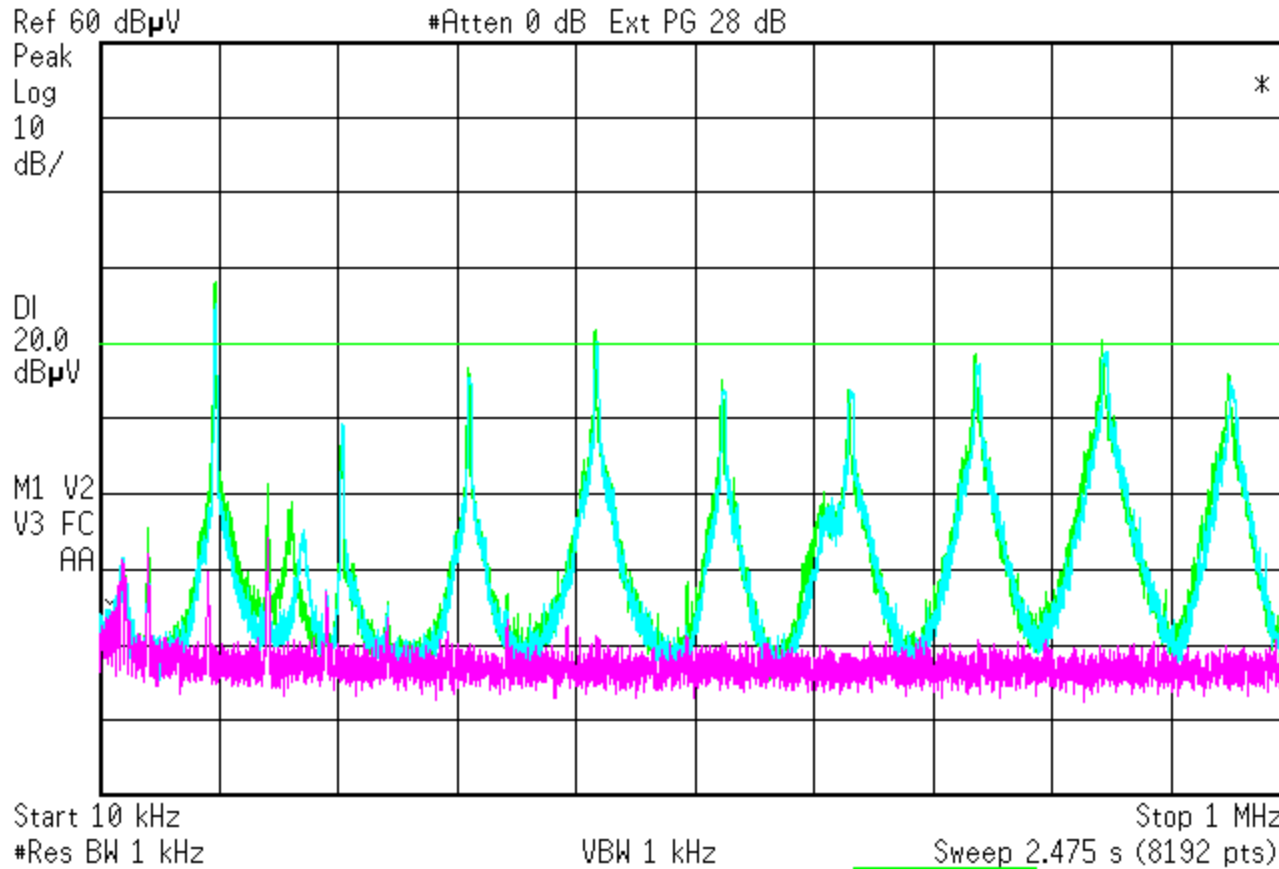
Common Mode Current
100 meter CAT-6, DTE Power, with and without 100Base-T, (0 dBuA = 0 dBuV)



Signal Pair Prototype 105 meter CAT-6, DTE Power, with and without 100Base-T
 (each trace taken with Max Hold, 5-10 minutes of acquisition)

DTE power only	light blue
100Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current
 100 meter CAT-6, DTE Power, with and without 100Base-T, (0 dBuA = 0 dBuV)



Signal Pair Prototype 105 meter CAT-6, DTE Power, with and without 100Base-T
(each trace taken with Max Hold, 5-10 minutes of acquisition)

DTE power only	light blue
100Base-T and DTE power	light green
Baseline	magenta
Display Line, 20 dBuV	light green

Common Mode Current
100 meter CAT-6, DTE Power, with and without 100Base-T, (0 dBuA = 0 dBuV)