

# ZIPPY EMC LAB

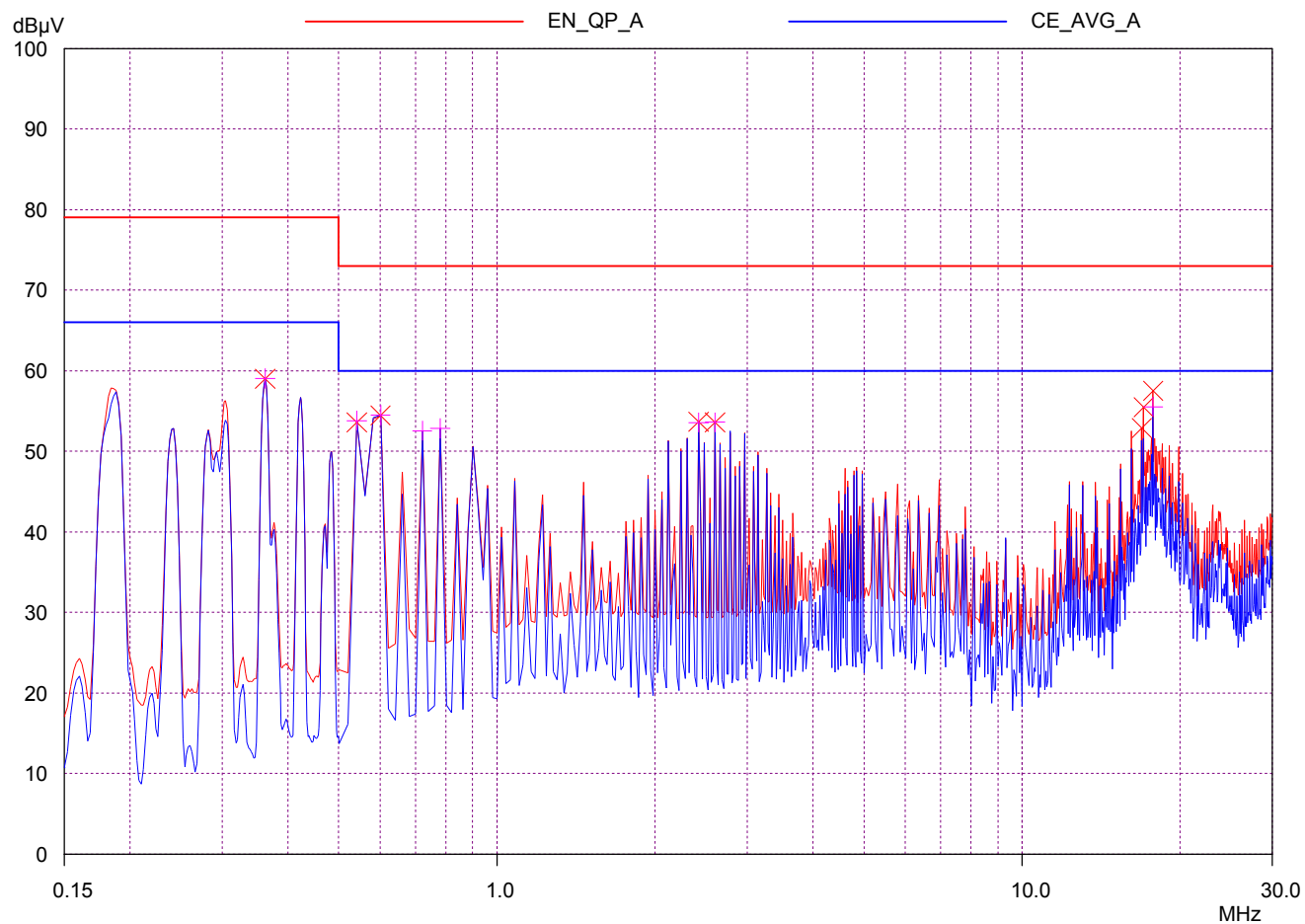
## conduction test

EUT: DR1S2-5380V4H SPS  
Manuf: ZIPPY TECH CO..LTD  
Op Cond: FULL LOAD  
Operator:  
Test Spec: FCC Part 15-- Class A  
Comment: Load Condition (20 15 0.5 14 2.5)  
LDC 48V

| Scan Settings |        |       | (3 Ranges) |          |        | Receiver Settings |        |       |  |
|---------------|--------|-------|------------|----------|--------|-------------------|--------|-------|--|
| Frequencies   |        |       |            |          |        |                   |        |       |  |
| Start         | Stop   | Step  | IF BW      | Detector | M-Time | Atten             | Preamp | OpRge |  |
| 150kHz        | 500kHz | 2kHz  | 10kHz      | QP+AV    | 50msec | Auto              | OFF    | 60dB  |  |
| 500kHz        | 5MHz   | 20kHz | 10kHz      | QP+AV    | 1msec  | Auto              | OFF    | 60dB  |  |
| 5MHz          | 30MHz  | 50kHz | 10kHz      | QP+AV    | 1msec  | Auto              | OFF    | 60dB  |  |

| Transducer | No. | Start | Stop  | Name |
|------------|-----|-------|-------|------|
|            | 1   | 9kHz  | 30MHz | CEB  |

Prescan Measurement: Detectors: X QP / + AV  
Meas Time: see scan settings  
Peaks: 8  
Acc Margin: 25 dB



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| 150kHz        | 500kHz | 2kHz        | 10kHz | QP+AV    | 50msec            | Auto  | OFF    | 60dB  |
| 500kHz        | 5MHz   | 20kHz       | 10kHz | QP+AV    | 1msec             | Auto  | OFF    | 60dB  |
| 5MHz          | 30MHz  | 50kHz       | 10kHz | QP+AV    | 1msec             | Auto  | OFF    | 60dB  |

| Transducer | No. | Start | Stop  | Name |
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### Peak Search Results

| Frequency<br>MHz | QP Level<br>dBµV | QP Limit<br>dBµV | QP Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.362            | 58.95            | 79.00            | 20.05          | N          | gnd     |
| 0.54             | 53.60            | 73.00            | 19.40          | N          | gnd     |
| 0.6              | 54.42            | 73.00            | 18.58          | N          | gnd     |
| 2.42             | 53.67            | 73.00            | 19.33          | N          | gnd     |
| 2.6              | 53.56            | 73.00            | 19.44          | N          | gnd     |
| 16.9             | 52.88            | 73.00            | 20.12          | N          | gnd     |
| 17.0             | 55.45            | 73.00            | 17.55          | N          | gnd     |
| 17.75            | 57.48            | 73.00            | 15.52          | N          | gnd     |

| Frequency<br>MHz | AV Level<br>dBµV | AV Limit<br>dBµV | AV Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.362            | 59.02            | 66.00            | 6.98           | N          | gnd     |
| 0.54             | 53.79            | 60.00            | 6.21           | N          | gnd     |
| 0.6              | 54.48            | 60.00            | 5.52           | N          | gnd     |
| 0.72             | 52.54            | 60.00            | 7.46           | N          | gnd     |
| 0.78             | 52.83            | 60.00            | 7.17           | N          | gnd     |
| 2.42             | 53.57            | 60.00            | 6.43           | N          | gnd     |
| 2.6              | 53.60            | 60.00            | 6.40           | N          | gnd     |
| 17.75            | 55.52            | 60.00            | 4.48           | N          | gnd     |

\* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

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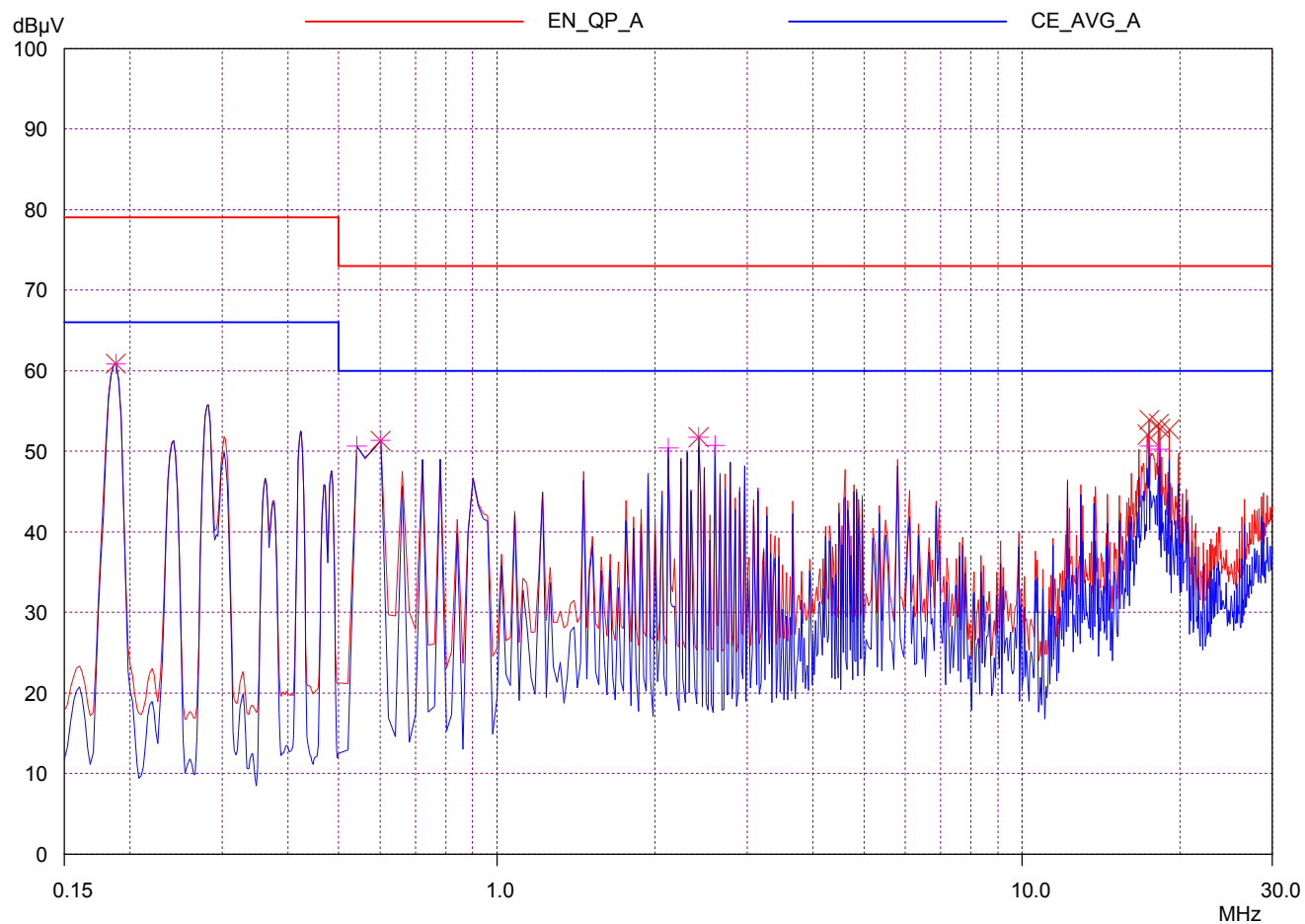
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Manuf: ZIPPY TECH CO..LTD  
Op Cond: FULL LOAD  
Operator:  
Test Spec: FCC Part 15-- Class A  
Comment: Load Condition (20 15 0.5 14 2.5)  
N DC48V

### Scan Settings (3 Ranges)

| Frequencies |        |       | Receiver Settings |          |        |       |        |       |
|-------------|--------|-------|-------------------|----------|--------|-------|--------|-------|
| Start       | Stop   | Step  | IF BW             | Detector | M-Time | Atten | Preamp | OpRge |
| 150kHz      | 500kHz | 2kHz  | 10kHz             | QP+AV    | 50msec | Auto  | OFF    | 60dB  |
| 500kHz      | 5MHz   | 20kHz | 10kHz             | QP+AV    | 1msec  | Auto  | OFF    | 60dB  |
| 5MHz        | 30MHz  | 50kHz | 10kHz             | QP+AV    | 1msec  | Auto  | OFF    | 60dB  |

| Transducer | No. | Start | Stop  | Name |
|------------|-----|-------|-------|------|
|            | 1   | 9kHz  | 30MHz | CEB  |

Prescan Measurement: Detectors: X QP / + AV  
Meas Time: see scan settings  
Peaks: 8  
Acc Margin: 25 dB



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| Scan Settings |        | (3 Ranges)  |       |          | Receiver Settings |       |        |       |
|---------------|--------|-------------|-------|----------|-------------------|-------|--------|-------|
|               |        | Frequencies |       |          |                   |       |        |       |
| Start         | Stop   | Step        | IF BW | Detector | M-Time            | Atten | Preamp | OpRge |
| 150kHz        | 500kHz | 2kHz        | 10kHz | QP+AV    | 50msec            | Auto  | OFF    | 60dB  |
| 500kHz        | 5MHz   | 20kHz       | 10kHz | QP+AV    | 1msec             | Auto  | OFF    | 60dB  |
| 5MHz          | 30MHz  | 50kHz       | 10kHz | QP+AV    | 1msec             | Auto  | OFF    | 60dB  |

| Transducer | No. | Start | Stop  | Name |
|------------|-----|-------|-------|------|
|            | 1   | 9kHz  | 30MHz | CEB  |

Prescan Measurement: Detectors: X QP / + AV  
 Meas Time: see scan settings  
 Peaks: 8  
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### Peak Search Results

| Frequency<br>MHz | QP Level<br>dBµV | QP Limit<br>dBµV | QP Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.188            | 60.85            | 79.00            | 18.15          | N          | gnd     |
| 0.6              | 51.32            | 73.00            | 21.68          | N          | gnd     |
| 2.42             | 51.74            | 73.00            | 21.26          | N          | gnd     |
| 17.3             | 52.04            | 73.00            | 20.96          | N          | gnd     |
| 17.45            | 53.91            | 73.00            | 19.09          | N          | gnd     |
| 18.2             | 53.41            | 73.00            | 19.59          | N          | gnd     |
| 18.3             | 52.80            | 73.00            | 20.20          | N          | gnd     |
| 19.05            | 52.66            | 73.00            | 20.34          | N          | gnd     |

| Frequency<br>MHz | AV Level<br>dBµV | AV Limit<br>dBµV | AV Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.188            | 60.83            | 66.00            | 5.17           | N          | gnd     |
| 0.54             | 50.62            | 60.00            | 9.38           | N          | gnd     |
| 0.6              | 51.35            | 60.00            | 8.65           | N          | gnd     |
| 2.12             | 50.41            | 60.00            | 9.59           | N          | gnd     |
| 2.42             | 51.76            | 60.00            | 8.24           | N          | gnd     |
| 2.6              | 50.71            | 60.00            | 9.29           | N          | gnd     |
| 17.45            | 50.60            | 60.00            | 9.40           | N          | gnd     |
| 18.3             | 50.22            | 60.00            | 9.78           | N          | gnd     |

\* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission