

## EMC32 Report for FCC ID:AZ489FT7019

### Motorola FL08 EMC Lab

#### Test Information

|                       |                                |
|-----------------------|--------------------------------|
| EUT Name:             | Racer ic502 ISM                |
| Serial Number:        | 364AGG00BZ                     |
| Test Description:     | Power-line conducted emissions |
| Operating Conditions: | Room temp                      |
| Operator Name:        | Frank Baader                   |
| Comment:              | Charger SSW-0864               |

#### Scan Parameters: Hardware Setup latest FCC class B - 3810 LISN - [EMI conducted]

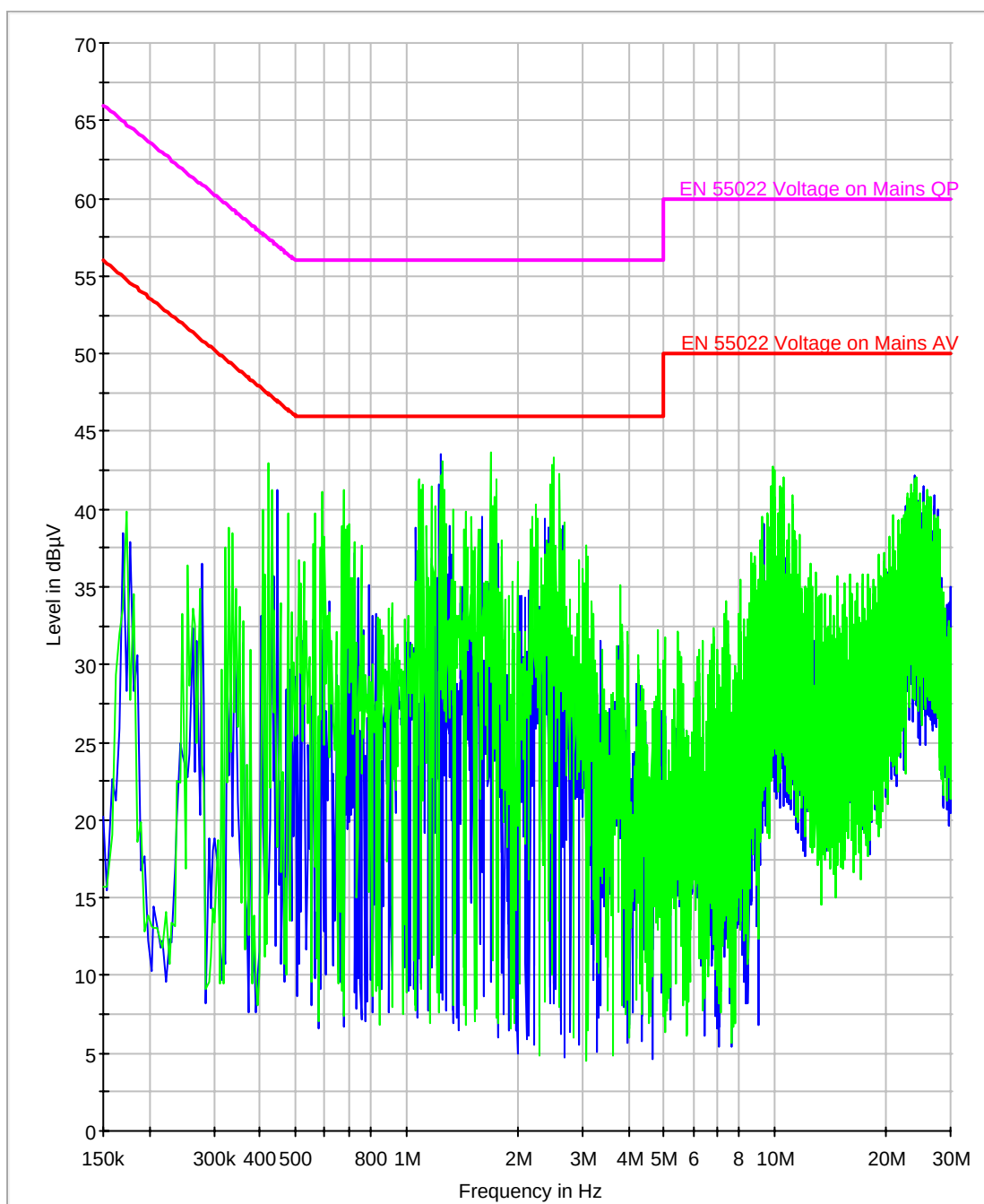
|              |                            |
|--------------|----------------------------|
| Subrange 1   |                            |
| Freq. Range: | 150kHz - 30MHz             |
| Receiver:    | ESMI                       |
| Transducer:  | 3810 LISN / ESMI-3810 LISN |

#### Scan Setup: EMI Conducted Scan latest FCC Peak det - 3810 LISN [EMI conducted]

|                 |                                               |
|-----------------|-----------------------------------------------|
| Hardware Setup: | Hardware Setup latest FCC class B - 3810 LISN |
| Level Unit:     | dB $\mu$ V                                    |

|                     |                |
|---------------------|----------------|
| Subrange 1:         |                |
| Frequency Subrange: | 150kHz - 30MHz |
| Comment:            |                |
| Probe:              | 3810 LISN      |
| Signal Path:        | ESMI-3810 LISN |
| Receiver:           | ESMI           |
| RF Input:           | 1 DC           |
| Detectors:          | MaxPeak        |
| IF Bandwidth:       | 9kHz           |
| Step Size:          | 4kHz           |
| Meas. Time:         | 0.001s         |
| Preamp:             | 0dB            |

**EMI Conducted Scan latest FCC Peak det - 3810 LISN**  
**Phone Rx ISM 902.625MHz Auto Merge Results N (Green) L1 (Blue)**



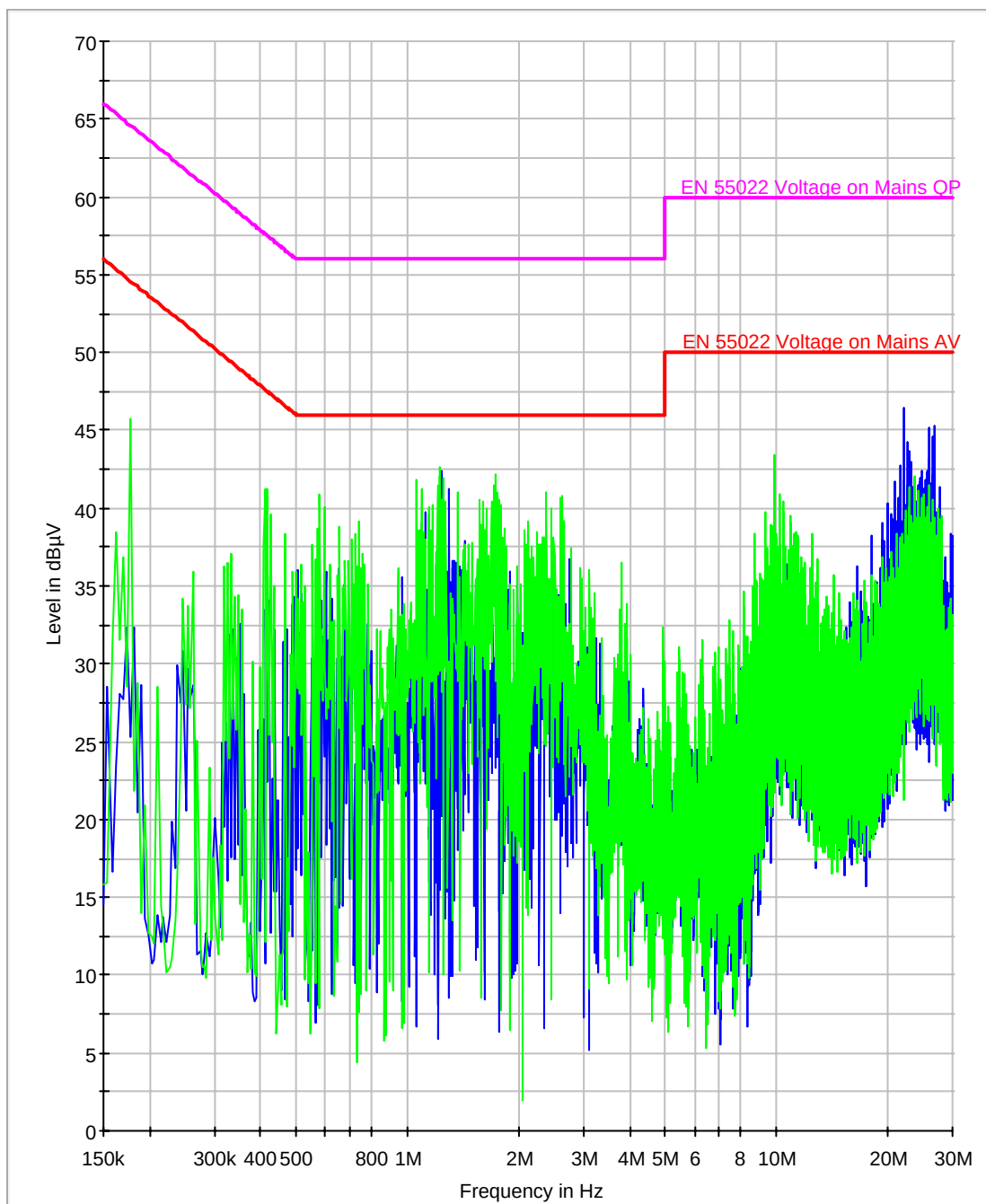
**Phone Rx ISM 902.625MHz Result Table\_Single**

| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Bandwidth (Hz) | PE  | Line |
|-----------------|------------------|----------------|----------------|-----|------|
| 0.422000        | 33.2             | 19.8           | 9000.000       | GND | L1   |
| 0.446000        | 36.6             | 20.7           | 9000.000       | GND | L1   |
| 1.086000        | 28.8             | 14.9           | 9000.000       | GND | L1   |
| 1.242000        | 33.4             | 19.4           | 9000.000       | GND | L1   |
| 1.686000        | 31.2             | 19.8           | 9000.000       | GND | L1   |
| 2.510000        | 30.8             | 15.8           | 9000.000       | GND | L1   |
| 0.422000        | 40.0             | 24.9           | 9000.000       | GND | N    |
| 0.446000        | 36.9             | 23.7           | 9000.000       | GND | N    |
| 1.086000        | 35.2             | 10.3           | 9000.000       | GND | N    |
| 1.242000        | 33.9             | 20.0           | 9000.000       | GND | N    |
| 1.686000        | 35.8             | 19.4           | 9000.000       | GND | N    |
| 2.510000        | 35.7             | 23.6           | 9000.000       | GND | N    |

**Phone Rx ISM 902.625MHz Limits**

| Frequency            |          |          |           |           |           |            |    |
|----------------------|----------|----------|-----------|-----------|-----------|------------|----|
| <= 500kHz            | QP value | QP Limit | QP Margin | Avr Value | Avr Limit | Avr Margin | Ph |
| 422000               | 33.20    | 58.18    | 24.98     | 19.80     | 48.18     | 28.38      | L1 |
| 446000               | 36.60    | 57.49    | 20.89     | 20.70     | 47.49     | 26.79      | L1 |
|                      |          |          |           |           |           |            |    |
| 422000               | 40.00    | 58.18    | 18.18     | 24.90     | 48.18     | 23.28      | N  |
| 446000               | 36.90    | 57.49    | 20.59     | 23.70     | 47.49     | 23.79      | N  |
|                      |          |          |           |           |           |            |    |
| <b>500kHz - 5MHz</b> |          |          |           |           |           |            |    |
| 1086000              | 28.80    | 56.00    | 27.20     | 14.90     | 46.00     | 31.10      | L1 |
| 1242000              | 33.40    | 56.00    | 22.60     | 19.40     | 46.00     | 26.60      | L1 |
| 1686000              | 31.20    | 56.00    | 24.80     | 19.80     | 46.00     | 26.20      | L1 |
| 2510000              | 30.80    | 56.00    | 25.20     | 15.80     | 46.00     | 30.20      | L1 |
|                      |          |          |           |           |           |            |    |
| 1086000              | 35.20    | 56.00    | 20.80     | 10.30     | 46.00     | 35.70      | N  |
| 1242000              | 33.90    | 56.00    | 22.10     | 20.00     | 46.00     | 26.00      | N  |
| 1686000              | 35.80    | 56.00    | 20.20     | 19.40     | 46.00     | 26.60      | N  |
| 2510000              | 35.70    | 56.00    | 20.30     | 23.60     | 46.00     | 22.40      | N  |

**EMI Conducted Scan latest FCC Peak det - 3810 LISN**  
**Phone Tx ISM 902.525MHz Auto Merge Results N (Green) L1 (Blue)**



**Phone Tx ISM 902.525MHz Result Table\_Single**

| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Bandwidth (Hz) | PE  | Line |
|-----------------|------------------|----------------|----------------|-----|------|
| 0.178000        | 30.8             | 21.6           | 9000.000       | GND | L1   |
| 1.058000        | 35.6             | 18.0           | 9000.000       | GND | L1   |
| 1.222000        | 30.8             | 19.3           | 9000.000       | GND | L1   |
| 1.738000        | 33.6             | 19.2           | 9000.000       | GND | L1   |
| 2.370000        | 34.0             | 20.5           | 9000.000       | GND | L1   |
| 22.262000       | 37.1             | 24.1           | 9000.000       | GND | L1   |
| 0.178000        | 34.0             | 19.3           | 9000.000       | GND | N    |
| 1.058000        | 37.0             | 23.8           | 9000.000       | GND | N    |
| 1.222000        | 38.4             | 24.8           | 9000.000       | GND | N    |
| 1.738000        | 36.8             | 23.4           | 9000.000       | GND | N    |
| 2.370000        | 37.9             | 23.1           | 9000.000       | GND | N    |
| 22.262000       | 37.2             | 25.8           | 9000.000       | GND | N    |

**Phone Tx ISM 902.525MHz Limits**

| Frequency            |          |          |           |           |           |            |    |
|----------------------|----------|----------|-----------|-----------|-----------|------------|----|
| <= 500kHz            | QP value | QP Limit | QP Margin | Avr Value | Avr Limit | Avr Margin | Ph |
| 178000               | 30.80    | 65.20    | 34.40     | 21.60     | 55.20     | 33.60      | L1 |
| 178000               | 34.00    | 65.20    | 31.20     | 19.30     | 55.20     | 35.90      | N  |
| <b>500kHz - 5MHz</b> |          |          |           |           |           |            |    |
| 1058000              | 35.60    | 56.00    | 20.40     | 18.00     | 46.00     | 28.00      | L1 |
| 1222000              | 30.80    | 56.00    | 25.20     | 19.30     | 46.00     | 26.70      | L1 |
| 1738000              | 33.60    | 56.00    | 22.40     | 19.20     | 46.00     | 26.80      | L1 |
| 2370000              | 34.00    | 56.00    | 22.00     | 20.50     | 46.00     | 25.50      | L1 |
| 1058000              | 37.00    | 56.00    | 19.00     | 23.80     | 46.00     | 22.20      | N  |
| 1222000              | 38.40    | 56.00    | 17.60     | 24.80     | 46.00     | 21.20      | N  |
| 1738000              | 36.80    | 56.00    | 19.20     | 23.40     | 46.00     | 22.60      | N  |
| 2370000              | 37.90    | 56.00    | 18.10     | 23.10     | 46.00     | 22.90      | N  |
| <b>5MHz - 30MHz</b>  |          |          |           |           |           |            |    |
| 22262000             | 37.1000  | 60.0000  | 22.9000   | 24.1000   | 50.0000   | 25.9000    | L1 |
| 22262000             | 37.2000  | 60.0000  | 22.8000   | 25.8000   | 50.0000   | 24.2000    | N  |