

## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.70 |
|-------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.60 |
|-------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.90 |
|-------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.20 |
|-------------------------------------------------------------------------|------|

**Appendix A. Test Result of Conducted Test Items**

|                |                     |                    |       |    |
|----------------|---------------------|--------------------|-------|----|
| Test Engineer: | Allen Lin           | Temperature:       | 21~25 | °C |
| Test Date:     | 2017/4/14~2017/4/24 | Relative Humidity: | 51~54 | %  |

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| 2.4GHz Band |           |     |     |             |                       |       |              |       |                    |           |
|-------------|-----------|-----|-----|-------------|-----------------------|-------|--------------|-------|--------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) |       | 6dB BW (MHz) |       | 6dB BW Limit (MHz) | Pass/Fail |
|             |           |     |     |             | Ant 1                 | Ant 2 | Ant 1        | Ant 2 |                    |           |
| 11b         | 1Mbps     | 2   | 1   | 2412        | 12.85                 | 13.00 | 7.52         | 7.98  | 0.50               | Pass      |
| 11b         | 1Mbps     | 2   | 6   | 2437        | 12.85                 | 12.85 | 8.00         | 7.52  | 0.50               | Pass      |
| 11b         | 1Mbps     | 2   | 11  | 2462        | 12.65                 | 12.75 | 7.54         | 7.06  | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 18.05                 | 17.90 | 16.32        | 16.36 | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 18.05                 | 17.85 | 15.90        | 16.32 | 0.50               | Pass      |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 17.90                 | 17.65 | 16.30        | 16.36 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 1   | 2412        | 19.20                 | 19.05 | 17.54        | 17.54 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 6   | 2437        | 19.00                 | 19.10 | 16.36        | 17.34 | 0.50               | Pass      |
| HT20        | MCS0      | 2   | 11  | 2462        | 19.00                 | 19.00 | 17.18        | 17.54 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 3   | 2422        | 36.70                 | 35.92 | 35.08        | 35.92 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 6   | 2437        | 36.90                 | 35.68 | 35.72        | 35.68 | 0.50               | Pass      |
| HT40        | MCS0      | 2   | 9   | 2452        | 37.10                 | 36.36 | 36.24        | 36.36 | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Peak Output Power**

| 2.4GHz Band |           |     |     |             |                            |       |       |                             |       |          |       |                  |       |                        |       |            |
|-------------|-----------|-----|-----|-------------|----------------------------|-------|-------|-----------------------------|-------|----------|-------|------------------|-------|------------------------|-------|------------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) |       |       | Conducted Power Limit (dBm) |       | DG (dBi) |       | EIRP Power (dBm) |       | EIRP Power Limit (dBm) |       | Pass /Fail |
|             |           |     |     |             | Ant 1                      | Ant 2 | SUM   | Ant 1                       | Ant 2 | Ant 1    | Ant 2 | Ant 1            | Ant 2 | Ant 1                  | Ant 2 |            |
| 11b         | 1Mbps     | 1   | 1   | 2412        | 13.56                      | 13.98 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 13.56            | 13.98 | 36.00                  | 36.00 | Pass       |
| 11b         | 1Mbps     | 1   | 6   | 2437        | 13.82                      | 14.35 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 13.82            | 14.35 | 36.00                  | 36.00 | Pass       |
| 11b         | 1Mbps     | 1   | 11  | 2462        | 13.89                      | 14.10 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 13.89            | 14.10 | 36.00                  | 36.00 | Pass       |
| 11g         | 6Mbps     | 1   | 1   | 2412        | 20.02                      | 20.10 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.02            | 20.10 | 36.00                  | 36.00 | Pass       |
| 11g         | 6Mbps     | 1   | 6   | 2437        | 20.11                      | 20.47 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.11            | 20.47 | 36.00                  | 36.00 | Pass       |
| 11g         | 6Mbps     | 1   | 11  | 2462        | 20.12                      | 20.04 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.12            | 20.04 | 36.00                  | 36.00 | Pass       |
| HT20        | MCS0      | 1   | 1   | 2412        | 20.06                      | 20.22 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.06            | 20.22 | 36.00                  | 36.00 | Pass       |
| HT20        | MCS0      | 1   | 6   | 2437        | 20.02                      | 20.36 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.02            | 20.36 | 36.00                  | 36.00 | Pass       |
| HT20        | MCS0      | 1   | 11  | 2462        | 20.19                      | 20.16 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.19            | 20.16 | 36.00                  | 36.00 | Pass       |
| HT40        | MCS0      | 1   | 3   | 2422        | 20.67                      | 20.63 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.67            | 20.63 | 36.00                  | 36.00 | Pass       |
| HT40        | MCS0      | 1   | 6   | 2437        | 20.35                      | 20.90 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.35            | 20.90 | 36.00                  | 36.00 | Pass       |
| HT40        | MCS0      | 1   | 9   | 2452        | 20.61                      | 21.13 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.61            | 21.13 | 36.00                  | 36.00 | Pass       |
| VHT20       | MCS0      | 1   | 1   | 2412        | 19.90                      | 20.06 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 19.90            | 20.06 | 36.00                  | 36.00 | Pass       |
| VHT20       | MCS0      | 1   | 6   | 2437        | 19.92                      | 20.10 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 19.92            | 20.10 | 36.00                  | 36.00 | Pass       |
| VHT20       | MCS0      | 1   | 11  | 2462        | 20.11                      | 20.00 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.11            | 20.00 | 36.00                  | 36.00 | Pass       |
| VHT40       | MCS0      | 1   | 3   | 2422        | 20.11                      | 20.04 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.11            | 20.04 | 36.00                  | 36.00 | Pass       |
| VHT40       | MCS0      | 1   | 6   | 2437        | 20.20                      | 20.10 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.20            | 20.10 | 36.00                  | 36.00 | Pass       |
| VHT40       | MCS0      | 1   | 9   | 2452        | 20.22                      | 20.12 |       | 30.00                       | 30.00 | 0.00     | 0.00  | 20.22            | 20.12 | 36.00                  | 36.00 | Pass       |
| 11b         | 1Mbps     | 2   | 1   | 2412        | 13.66                      | 14.00 | 16.84 | 30.00                       |       | 0.00     |       | 16.84            |       | 36.00                  |       | Pass       |
| 11b         | 1Mbps     | 2   | 6   | 2437        | 13.85                      | 14.40 | 17.14 | 30.00                       |       | 0.00     |       | 17.14            |       | 36.00                  |       | Pass       |
| 11b         | 1Mbps     | 2   | 11  | 2462        | 13.95                      | 14.22 | 17.10 | 30.00                       |       | 0.00     |       | 17.10            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 20.04                      | 20.22 | 23.14 | 30.00                       |       | 0.00     |       | 23.14            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 20.15                      | 20.50 | 23.34 | 30.00                       |       | 0.00     |       | 23.34            |       | 36.00                  |       | Pass       |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 20.21                      | 20.12 | 23.18 | 30.00                       |       | 0.00     |       | 23.18            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2   | 1   | 2412        | 20.09                      | 19.93 | 23.02 | 30.00                       |       | 0.00     |       | 23.02            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2   | 6   | 2437        | 20.03                      | 20.40 | 23.23 | 30.00                       |       | 0.00     |       | 23.23            |       | 36.00                  |       | Pass       |
| HT20        | MCS0      | 2   | 11  | 2462        | 20.03                      | 20.01 | 23.03 | 30.00                       |       | 0.00     |       | 23.03            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2   | 3   | 2422        | 20.35                      | 20.71 | 23.54 | 30.00                       |       | 0.00     |       | 23.54            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2   | 6   | 2437        | 20.40                      | 20.95 | 23.69 | 30.00                       |       | 0.00     |       | 23.69            |       | 36.00                  |       | Pass       |
| HT40        | MCS0      | 2   | 9   | 2452        | 20.59                      | 20.59 | 23.60 | 30.00                       |       | 0.00     |       | 23.60            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2   | 1   | 2412        | 19.81                      | 19.63 | 22.73 | 30.00                       |       | 0.00     |       | 22.73            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2   | 6   | 2437        | 19.95                      | 19.15 | 22.58 | 30.00                       |       | 0.00     |       | 22.58            |       | 36.00                  |       | Pass       |
| VHT20       | MCS0      | 2   | 11  | 2462        | 20.02                      | 19.64 | 22.84 | 30.00                       |       | 0.00     |       | 22.84            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2   | 3   | 2422        | 19.95                      | 20.03 | 23.00 | 30.00                       |       | 0.00     |       | 23.00            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2   | 6   | 2437        | 20.22                      | 20.15 | 23.20 | 30.00                       |       | 0.00     |       | 23.20            |       | 36.00                  |       | Pass       |
| VHT40       | MCS0      | 2   | 9   | 2452        | 20.31                      | 20.12 | 23.23 | 30.00                       |       | 0.00     |       | 23.23            |       | 36.00                  |       | Pass       |

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Output Power**

| 2.4GHz Band |           |     |     |             |                  |       |                               |       |       |
|-------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       |
|             |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   |
| 11b         | 1Mbps     | 1   | 1   | 2412        | 0.04             | 0.06  | 11.01                         | 11.26 |       |
| 11b         | 1Mbps     | 1   | 6   | 2437        | 0.04             | 0.06  | 11.09                         | 11.59 |       |
| 11b         | 1Mbps     | 1   | 11  | 2462        | 0.04             | 0.06  | 11.17                         | 11.37 |       |
| 11g         | 6Mbps     | 1   | 1   | 2412        | 0.29             | 0.25  | 10.02                         | 10.12 |       |
| 11g         | 6Mbps     | 1   | 6   | 2437        | 0.29             | 0.25  | 10.11                         | 10.57 |       |
| 11g         | 6Mbps     | 1   | 11  | 2462        | 0.29             | 0.25  | 10.18                         | 10.08 |       |
| HT20        | MCS0      | 1   | 1   | 2412        | 0.25             | 0.28  | 10.02                         | 10.17 |       |
| HT20        | MCS0      | 1   | 6   | 2437        | 0.25             | 0.28  | 10.10                         | 10.61 |       |
| HT20        | MCS0      | 1   | 11  | 2462        | 0.25             | 0.28  | 10.14                         | 10.00 |       |
| HT40        | MCS0      | 1   | 3   | 2422        | 0.49             | 0.57  | 10.09                         | 10.40 |       |
| HT40        | MCS0      | 1   | 6   | 2437        | 0.49             | 0.57  | 10.14                         | 10.32 |       |
| HT40        | MCS0      | 1   | 9   | 2452        | 0.49             | 0.57  | 10.19                         | 10.36 |       |
| VHT20       | MCS0      | 1   | 1   | 2412        | 0.27             | 0.31  | 10.01                         | 10.10 |       |
| VHT20       | MCS0      | 1   | 6   | 2437        | 0.27             | 0.31  | 10.02                         | 10.22 |       |
| VHT20       | MCS0      | 1   | 11  | 2462        | 0.27             | 0.31  | 10.18                         | 10.08 |       |
| VHT40       | MCS0      | 1   | 3   | 2422        | 0.56             | 0.57  | 10.06                         | 10.25 |       |
| VHT40       | MCS0      | 1   | 6   | 2437        | 0.56             | 0.57  | 10.11                         | 10.27 |       |
| VHT40       | MCS0      | 1   | 9   | 2452        | 0.56             | 0.57  | 10.23                         | 10.30 |       |
| 11b         | 1Mbps     | 2   | 1   | 2412        | 0.06             | 0.04  | 10.96                         | 11.27 | 14.13 |
| 11b         | 1Mbps     | 2   | 6   | 2437        | 0.06             | 0.04  | 11.04                         | 11.60 | 14.34 |
| 11b         | 1Mbps     | 2   | 11  | 2462        | 0.06             | 0.04  | 11.26                         | 11.39 | 14.34 |
| 11g         | 6Mbps     | 2   | 1   | 2412        | 0.25             | 0.25  | 9.95                          | 10.05 | 13.01 |
| 11g         | 6Mbps     | 2   | 6   | 2437        | 0.25             | 0.25  | 10.12                         | 10.67 | 13.41 |
| 11g         | 6Mbps     | 2   | 11  | 2462        | 0.25             | 0.25  | 10.15                         | 9.95  | 13.06 |
| HT20        | MCS0      | 2   | 1   | 2412        | 0.25             | 0.25  | 9.98                          | 10.02 | 13.01 |
| HT20        | MCS0      | 2   | 6   | 2437        | 0.25             | 0.25  | 10.11                         | 10.63 | 13.39 |
| HT20        | MCS0      | 2   | 11  | 2462        | 0.25             | 0.25  | 10.12                         | 9.89  | 13.02 |
| HT40        | MCS0      | 2   | 3   | 2422        | 0.57             | 0.57  | 10.11                         | 10.31 | 13.22 |
| HT40        | MCS0      | 2   | 6   | 2437        | 0.57             | 0.57  | 10.17                         | 10.34 | 13.26 |
| HT40        | MCS0      | 2   | 9   | 2452        | 0.57             | 0.57  | 10.24                         | 10.25 | 13.25 |
| VHT20       | MCS0      | 2   | 1   | 2412        | 0.31             | 0.31  | 9.96                          | 10.12 | 13.05 |
| VHT20       | MCS0      | 2   | 6   | 2437        | 0.31             | 0.31  | 10.06                         | 10.24 | 13.16 |
| VHT20       | MCS0      | 2   | 11  | 2462        | 0.31             | 0.31  | 10.17                         | 9.95  | 13.07 |
| VHT40       | MCS0      | 2   | 3   | 2422        | 0.53             | 0.61  | 9.95                          | 10.26 | 13.12 |
| VHT40       | MCS0      | 2   | 6   | 2437        | 0.53             | 0.61  | 10.13                         | 10.33 | 13.24 |
| VHT40       | MCS0      | 2   | 9   | 2452        | 0.53             | 0.61  | 10.21                         | 10.29 | 13.26 |

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

| 2.4GHz Band |           |     |     |             |                     |        |              |          |       |                           |       |           |
|-------------|-----------|-----|-----|-------------|---------------------|--------|--------------|----------|-------|---------------------------|-------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm/3kHz) |        |              | DG (dBi) |       | Peak PSD Limit (dBm/3kHz) |       | Pass/Fail |
|             |           |     |     |             | Ant 1               | Ant 2  | Worse + 3.01 | Ant 1    | Ant 2 | Ant 1                     | Ant 2 |           |
| 11b         | 1Mbps     | 2   | 1   | 2412        | -10.82              | -12.12 | -7.81        | 3.01     |       | 8.00                      |       | Pass      |
| 11b         | 1Mbps     | 2   | 6   | 2437        | -10.55              | -10.71 | -7.54        | 3.01     |       | 8.00                      |       | Pass      |
| 11b         | 1Mbps     | 2   | 11  | 2462        | -12.57              | -11.36 | -8.35        | 3.01     |       | 8.00                      |       | Pass      |
| 11g         | 6Mbps     | 2   | 1   | 2412        | -15.03              | -15.22 | -12.02       | 3.01     |       | 8.00                      |       | Pass      |
| 11g         | 6Mbps     | 2   | 6   | 2437        | -14.75              | -13.46 | -10.45       | 3.01     |       | 8.00                      |       | Pass      |
| 11g         | 6Mbps     | 2   | 11  | 2462        | -15.28              | -15.66 | -12.27       | 3.01     |       | 8.00                      |       | Pass      |
| HT20        | MCS0      | 2   | 1   | 2412        | -15.10              | -16.51 | -12.09       | 3.01     |       | 8.00                      |       | Pass      |
| HT20        | MCS0      | 2   | 6   | 2437        | -14.60              | -16.12 | -11.59       | 3.01     |       | 8.00                      |       | Pass      |
| HT20        | MCS0      | 2   | 11  | 2462        | -13.68              | -15.73 | -10.67       | 3.01     |       | 8.00                      |       | Pass      |
| HT40        | MCS0      | 2   | 3   | 2422        | -18.15              | -17.63 | -14.62       | 3.01     |       | 8.00                      |       | Pass      |
| HT40        | MCS0      | 2   | 6   | 2437        | -17.53              | -17.79 | -14.52       | 3.01     |       | 8.00                      |       | Pass      |
| HT40        | MCS0      | 2   | 9   | 2452        | -18.96              | -18.06 | -15.05       | 3.01     |       | 8.00                      |       | Pass      |

Measured power density (dBm) has offset with cable loss.



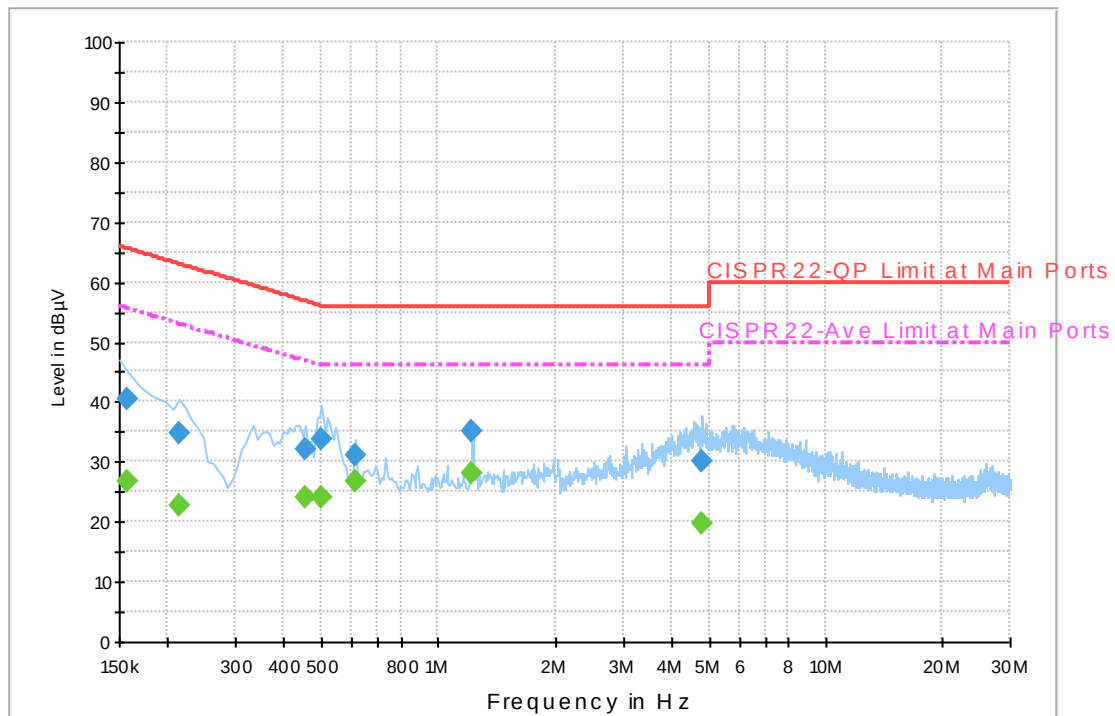
## Appendix B. AC Conducted Emission Test Results

|                 |           |                     |         |
|-----------------|-----------|---------------------|---------|
| Test Engineer : | Eric Jeng | Temperature :       | 21~23°C |
|                 |           | Relative Humidity : | 52~55%  |

## EUT Information

Report NO : 740120  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

ENV216 Auto Test FCC Power Bar - L



## Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.158000        | 40.6             | Off    | L1   | 19.6       | 25.0        | 65.6         |
| 0.214000        | 34.7             | Off    | L1   | 19.6       | 28.3        | 63.0         |
| 0.454000        | 32.0             | Off    | L1   | 19.6       | 24.8        | 56.8         |
| 0.502000        | 33.8             | Off    | L1   | 19.6       | 22.2        | 56.0         |
| 0.614000        | 31.2             | Off    | L1   | 19.6       | 24.8        | 56.0         |
| 1.222000        | 35.0             | Off    | L1   | 19.6       | 21.0        | 56.0         |
| 4.822000        | 30.1             | Off    | L1   | 19.8       | 25.9        | 56.0         |

## Final Result 2

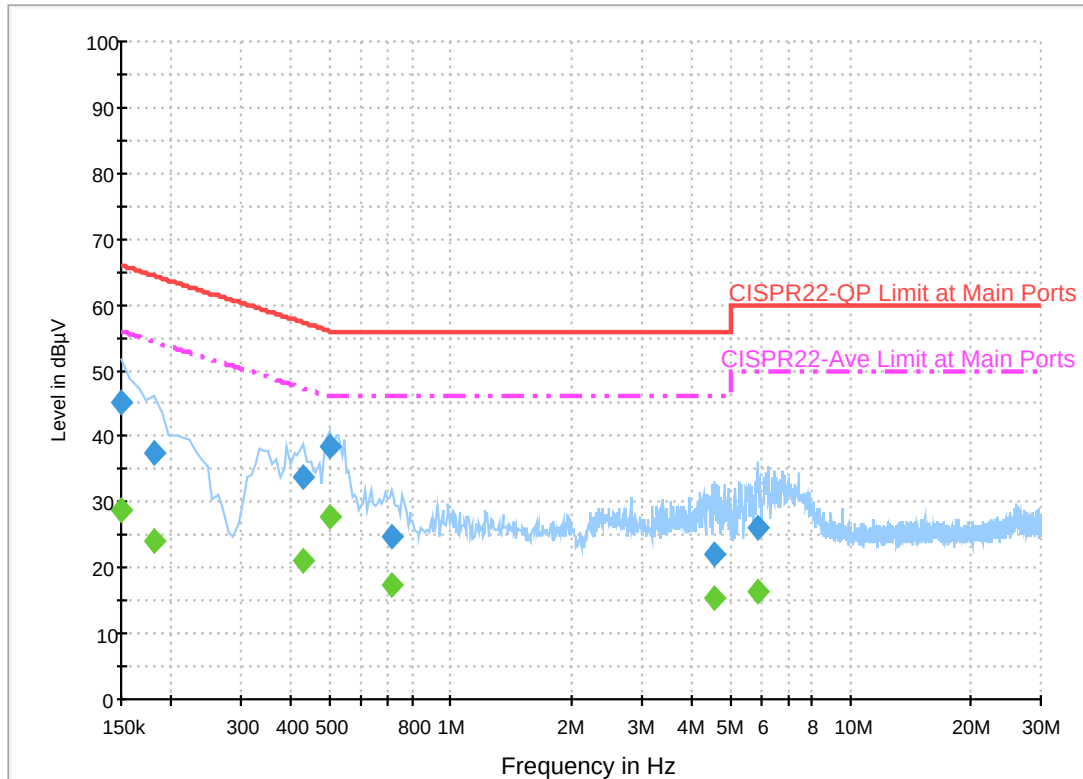
| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.158000        | 26.7           | Off    | L1   | 19.6       | 28.9        | 55.6         |
| 0.214000        | 22.8           | Off    | L1   | 19.6       | 30.2        | 53.0         |
| 0.454000        | 24.0           | Off    | L1   | 19.6       | 22.8        | 46.8         |
| 0.502000        | 23.9           | Off    | L1   | 19.6       | 22.1        | 46.0         |
| 0.614000        | 26.6           | Off    | L1   | 19.6       | 19.4        | 46.0         |
| 1.222000        | 28.0           | Off    | L1   | 19.6       | 18.0        | 46.0         |
| 4.822000        | 19.8           | Off    | L1   | 19.8       | 26.2        | 46.0         |



## EUT Information

Report NO : 740120  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



## Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000        | 45.0             | Off    | N    | 19.5       | 21.0        | 66.0         |
| 0.182000        | 37.5             | Off    | N    | 19.5       | 26.9        | 64.4         |
| 0.430000        | 33.7             | Off    | N    | 19.5       | 23.6        | 57.3         |
| 0.502000        | 38.6             | Off    | N    | 19.5       | 17.4        | 56.0         |
| 0.710000        | 24.9             | Off    | N    | 19.5       | 31.1        | 56.0         |
| 4.590000        | 22.0             | Off    | N    | 19.7       | 34.0        | 56.0         |
| 5.886000        | 25.9             | Off    | N    | 19.8       | 34.1        | 60.0         |

## Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000        | 28.6           | Off    | N    | 19.5       | 27.4        | 56.0         |
| 0.182000        | 24.0           | Off    | N    | 19.5       | 30.4        | 54.4         |
| 0.430000        | 21.0           | Off    | N    | 19.5       | 26.3        | 47.3         |
| 0.502000        | 27.7           | Off    | N    | 19.5       | 18.3        | 46.0         |
| 0.710000        | 17.4           | Off    | N    | 19.5       | 28.6        | 46.0         |
| 4.590000        | 15.5           | Off    | N    | 19.7       | 30.5        | 46.0         |
| 5.886000        | 16.3           | Off    | N    | 19.8       | 33.7        | 50.0         |



## Appendix C. Radiated Spurious Emission

|                 |                            |                     |         |
|-----------------|----------------------------|---------------------|---------|
| Test Engineer : | Stan Hsieh and Kyle Chuang | Temperature :       | 22~24°C |
|                 |                            | Relative Humidity : | 43~44%  |

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|-----------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b<br>CH 01<br>2412MHz |      | 2347.38   | 50.49      | -23.51 | 74         | 42.6     | 26.74    | 4.4    | 33.23  | 299    | 138     | P       | H       |
|                             |      | 2390      | 39.6       | -14.4  | 54         | 31.47    | 26.93    | 4.43   | 33.21  | 299    | 138     | A       | H       |
|                             | *    | 2412      | 96.86      | -      | -          | 88.63    | 26.99    | 4.47   | 33.21  | 299    | 138     | P       | H       |
|                             | *    | 2412      | 93.72      | -      | -          | 85.49    | 26.99    | 4.47   | 33.21  | 299    | 138     | A       | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | H       |
|                             |      | 2386.86   | 50.55      | -23.45 | 74         | 42.43    | 26.93    | 4.43   | 33.22  | 193    | 250     | P       | V       |
|                             |      | 2389.065  | 39.77      | -14.23 | 54         | 31.65    | 26.93    | 4.43   | 33.22  | 193    | 250     | A       | V       |
|                             | *    | 2412      | 99.83      | -      | -          | 91.6     | 26.99    | 4.47   | 33.21  | 193    | 250     | P       | V       |
|                             | *    | 2412      | 96.76      | -      | -          | 88.53    | 26.99    | 4.47   | 33.21  | 193    | 250     | A       | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
|                             |      |           |            |        |            |          |          |        |        |        |         |         | V       |
| 802.11b<br>CH 06<br>2437MHz |      | 2355.36   | 50.73      | -23.27 | 74         | 42.78    | 26.8     | 4.4    | 33.23  | 328    | 134     | P       | H       |
|                             |      | 2384.06   | 39.58      | -14.42 | 54         | 31.52    | 26.87    | 4.43   | 33.22  | 328    | 134     | A       | H       |
|                             | *    | 2437      | 96.9       | -      | -          | 88.52    | 27.11    | 4.48   | 33.19  | 328    | 134     | P       | H       |
|                             | *    | 2437      | 93.67      | -      | -          | 85.29    | 27.11    | 4.48   | 33.19  | 328    | 134     | A       | H       |
|                             |      | 2493.56   | 51.28      | -22.72 | 74         | 42.63    | 27.3     | 4.53   | 33.16  | 328    | 134     | P       | H       |
|                             |      | 2496.5    | 40.06      | -13.94 | 54         | 31.41    | 27.3     | 4.53   | 33.16  | 328    | 134     | A       | H       |
|                             |      | 2360.68   | 50.23      | -23.77 | 74         | 42.26    | 26.8     | 4.42   | 33.23  | 224    | 247     | P       | V       |
|                             |      | 2389.94   | 39.7       | -14.3  | 54         | 31.57    | 26.93    | 4.43   | 33.21  | 224    | 247     | A       | V       |
|                             | *    | 2437      | 99.78      | -      | -          | 91.4     | 27.11    | 4.48   | 33.19  | 224    | 247     | P       | V       |
|                             | *    | 2437      | 96.55      | -      | -          | 88.17    | 27.11    | 4.48   | 33.19  | 224    | 247     | A       | V       |
|                             |      | 2496.15   | 51.38      | -22.62 | 74         | 42.73    | 27.3     | 4.53   | 33.16  | 224    | 247     | P       | V       |
|                             |      | 2484.95   | 40.1       | -13.9  | 54         | 31.52    | 27.24    | 4.53   | 33.17  | 224    | 247     | A       | V       |



|                                                  |                                                                                             |         |       |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------|-------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11b</b><br><b>CH 11</b><br><b>2462MHz</b> | *                                                                                           | 2462    | 94.82 | -      | -  | 86.34 | 27.18 | 4.5  | 33.18 | 196 | 185 | P | H |
|                                                  | *                                                                                           | 2462    | 91.71 | -      | -  | 83.23 | 27.18 | 4.5  | 33.18 | 196 | 185 | A | H |
|                                                  |                                                                                             | 2495.32 | 50.75 | -23.25 | 74 | 42.1  | 27.3  | 4.53 | 33.16 | 196 | 185 | P | H |
|                                                  |                                                                                             | 2484    | 40.02 | -13.98 | 54 | 31.44 | 27.24 | 4.53 | 33.17 | 196 | 185 | A | H |
|                                                  |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | H |
|                                                  |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | H |
|                                                  | *                                                                                           | 2462    | 98.51 | -      | -  | 90.03 | 27.18 | 4.5  | 33.18 | 288 | 226 | P | V |
|                                                  | *                                                                                           | 2462    | 95.55 | -      | -  | 87.07 | 27.18 | 4.5  | 33.18 | 288 | 226 | A | V |
|                                                  |                                                                                             | 2495.12 | 51.2  | -22.8  | 74 | 42.55 | 27.3  | 4.53 | 33.16 | 288 | 226 | P | V |
|                                                  |                                                                                             | 2484.44 | 40.06 | -13.94 | 54 | 31.48 | 27.24 | 4.53 | 33.17 | 288 | 226 | A | V |
|                                                  |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | V |
|                                                  |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |       |        |    |       |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11b<br>CH 01<br>2412MHz |                                                                                             | 4824                 | 44.66               | -29.34                  | 74                          | 67.62                     | 32.09                         | 6.36                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4824                 | 44.41               | -29.59                  | 74                          | 67.37                     | 32.09                         | 6.36                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11b<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 45.15               | -28.85                  | 74                          | 67.95                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7311                 | 49.31               | -24.69                  | 74                          | 66.15                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4874                 | 44.96               | -29.04                  | 74                          | 67.76                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7311                 | 49.89               | -24.11                  | 74                          | 66.73                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11b<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 46.12               | -27.88                  | 74                          | 68.79                     | 32.33                         | 6.43                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7386                 | 49.05               | -24.95                  | 74                          | 65.61                     | 37.15                         | 8.02                    | 62.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4924                 | 44.96               | -29.04                  | 74                          | 67.63                     | 32.33                         | 6.43                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7386                 | 49.91               | -24.09                  | 74                          | 66.47                     | 37.15                         | 8.02                    | 62.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2         | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11g<br>CH 01<br>2412MHz |      | 2385.075             | 50.3                | -23.7                   | 74                          | 42.24                     | 26.87                         | 4.43                    | 33.22                      | 303                  | 121                     | P                       | H               |
|                             |      | 2388.33              | 40.73               | -13.27                  | 54                          | 32.61                     | 26.93                         | 4.43                    | 33.22                      | 303                  | 121                     | A                       | H               |
|                             | *    | 2412                 | 96.78               | -                       | -                           | 88.55                     | 26.99                         | 4.47                    | 33.21                      | 303                  | 121                     | P                       | H               |
|                             | *    | 2412                 | 89.26               | -                       | -                           | 81.03                     | 26.99                         | 4.47                    | 33.21                      | 303                  | 121                     | A                       | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |      | 2387.595             | 53.55               | -20.45                  | 74                          | 45.43                     | 26.93                         | 4.43                    | 33.22                      | 195                  | 246                     | P                       | V               |
|                             |      | 2389.905             | 41.3                | -12.7                   | 54                          | 33.17                     | 26.93                         | 4.43                    | 33.21                      | 195                  | 246                     | A                       | V               |
|                             | *    | 2412                 | 101.03              | -                       | -                           | 92.8                      | 26.99                         | 4.47                    | 33.21                      | 195                  | 246                     | P                       | V               |
|                             | *    | 2412                 | 93.44               | -                       | -                           | 85.21                     | 26.99                         | 4.47                    | 33.21                      | 195                  | 246                     | A                       | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 06<br>2437MHz |      | 2370.48              | 50.25               | -23.75                  | 74                          | 42.2                      | 26.87                         | 4.42                    | 33.22                      | 326                  | 119                     | P                       | H               |
|                             |      | 2382.38              | 40.55               | -13.45                  | 54                          | 32.49                     | 26.87                         | 4.43                    | 33.22                      | 326                  | 119                     | A                       | H               |
|                             | *    | 2437                 | 98.21               | -                       | -                           | 89.83                     | 27.11                         | 4.48                    | 33.19                      | 326                  | 119                     | P                       | H               |
|                             | *    | 2437                 | 90.44               | -                       | -                           | 82.06                     | 27.11                         | 4.48                    | 33.19                      | 326                  | 119                     | A                       | H               |
|                             |      | 2499.65              | 51.62               | -22.38                  | 74                          | 42.97                     | 27.3                          | 4.53                    | 33.16                      | 326                  | 119                     | P                       | H               |
|                             |      | 2494.47              | 40.94               | -13.06                  | 54                          | 32.29                     | 27.3                          | 4.53                    | 33.16                      | 326                  | 119                     | A                       | H               |
|                             |      | 2372.86              | 51.28               | -22.72                  | 74                          | 43.23                     | 26.87                         | 4.42                    | 33.22                      | 253                  | 239                     | P                       | V               |
|                             |      | 2388.96              | 40.74               | -13.26                  | 54                          | 32.62                     | 26.93                         | 4.43                    | 33.22                      | 253                  | 239                     | A                       | V               |
|                             | *    | 2437                 | 101.81              | -                       | -                           | 93.43                     | 27.11                         | 4.48                    | 33.19                      | 253                  | 239                     | P                       | V               |
|                             | *    | 2437                 | 94.23               | -                       | -                           | 85.85                     | 27.11                         | 4.48                    | 33.19                      | 253                  | 239                     | A                       | V               |
|                             |      | 2485.72              | 50.73               | -23.27                  | 74                          | 42.15                     | 27.24                         | 4.53                    | 33.17                      | 253                  | 239                     | P                       | V               |
|                             |      | 2483.5               | 41.01               | -12.99                  | 54                          | 32.43                     | 27.24                         | 4.53                    | 33.17                      | 253                  | 239                     | A                       | V               |



|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   |   |
|--------------------------------------|---------------------------------------------------------------------------------------------|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11g<br/>CH 11<br/>2462MHz</b> | *                                                                                           | 2462    | 95.97  | -      | -  | 87.49 | 27.18 | 4.5  | 33.18 | 285 | 183 | P | H |
|                                      | *                                                                                           | 2462    | 88.81  | -      | -  | 80.33 | 27.18 | 4.5  | 33.18 | 285 | 183 | A | H |
|                                      |                                                                                             | 2484.2  | 51.82  | -22.18 | 74 | 43.24 | 27.24 | 4.53 | 33.17 | 285 | 183 | P | H |
|                                      |                                                                                             | 2483.88 | 41.47  | -12.53 | 54 | 32.89 | 27.24 | 4.53 | 33.17 | 285 | 183 | A | H |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | H |
|                                      | *                                                                                           | 2462    | 100.61 | -      | -  | 92.13 | 27.18 | 4.5  | 33.18 | 282 | 232 | P | V |
|                                      | *                                                                                           | 2462    | 93.23  | -      | -  | 84.75 | 27.18 | 4.5  | 33.18 | 282 | 232 | A | V |
|                                      |                                                                                             | 2483.56 | 56.65  | -17.35 | 74 | 48.07 | 27.24 | 4.53 | 33.17 | 282 | 232 | P | V |
|                                      |                                                                                             | 2483.6  | 42.97  | -11.03 | 54 | 34.39 | 27.24 | 4.53 | 33.17 | 282 | 232 | A | V |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
|                                      |                                                                                             |         |        |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2         | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-----------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11g<br>CH 01<br>2412MHz |                                                                                             | 4824                 | 45.18               | -28.82                  | 74                          | 68.14                     | 32.09                         | 6.36                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4824                 | 46.44               | -27.56                  | 74                          | 69.4                      | 32.09                         | 6.36                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 43.81               | -30.19                  | 74                          | 66.61                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7311                 | 49.49               | -24.51                  | 74                          | 66.33                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4874                 | 44.15               | -29.85                  | 74                          | 66.95                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7311                 | 49.18               | -24.82                  | 74                          | 66.02                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11g<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 44.4                | -29.6                   | 74                          | 67.07                     | 32.33                         | 6.43                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                             |                                                                                             | 7386                 | 49.52               | -24.48                  | 74                          | 66.08                     | 37.15                         | 8.02                    | 62.08                      | 100                  | 0                       | P                       | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                             |                                                                                             | 4924                 | 45.21               | -28.79                  | 74                          | 67.88                     | 32.33                         | 6.43                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                             |                                                                                             | 7386                 | 49.4                | -24.6                   | 74                          | 65.96                     | 37.15                         | 8.02                    | 62.08                      | 100                  | 0                       | P                       | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                             |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |      | 2360.295             | 50.23               | -23.77                  | 74                          | 42.26                     | 26.8                          | 4.42                    | 33.23                      | 302                  | 40                      | P                       | H               |
|                                     |      | 2389.485             | 40.56               | -13.44                  | 54                          | 32.44                     | 26.93                         | 4.43                    | 33.22                      | 302                  | 40                      | A                       | H               |
|                                     | *    | 2412                 | 96.36               | -                       | -                           | 88.13                     | 26.99                         | 4.47                    | 33.21                      | 302                  | 40                      | P                       | H               |
|                                     | *    | 2412                 | 89.22               | -                       | -                           | 80.99                     | 26.99                         | 4.47                    | 33.21                      | 302                  | 40                      | A                       | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |      | 2389.275             | 51.76               | -22.24                  | 74                          | 43.64                     | 26.93                         | 4.43                    | 33.22                      | 148                  | 303                     | P                       | V               |
|                                     |      | 2390                 | 42.23               | -11.77                  | 54                          | 34.1                      | 26.93                         | 4.43                    | 33.21                      | 148                  | 303                     | A                       | V               |
|                                     | *    | 2412                 | 100.68              | -                       | -                           | 92.45                     | 26.99                         | 4.47                    | 33.21                      | 148                  | 303                     | P                       | V               |
|                                     | *    | 2412                 | 93.23               | -                       | -                           | 85                        | 26.99                         | 4.47                    | 33.21                      | 148                  | 303                     | A                       | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |      |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |      | 2379.3               | 50.47               | -23.53                  | 74                          | 42.41                     | 26.87                         | 4.43                    | 33.22                      | 155                  | 333                     | P                       | H               |
|                                     |      | 2387.7               | 40.5                | -13.5                   | 54                          | 32.38                     | 26.93                         | 4.43                    | 33.22                      | 155                  | 333                     | A                       | H               |
|                                     | *    | 2437                 | 95.35               | -                       | -                           | 86.97                     | 27.11                         | 4.48                    | 33.19                      | 155                  | 333                     | P                       | H               |
|                                     | *    | 2437                 | 88.11               | -                       | -                           | 79.73                     | 27.11                         | 4.48                    | 33.19                      | 155                  | 333                     | A                       | H               |
|                                     |      | 2497.69              | 50.86               | -23.14                  | 74                          | 42.21                     | 27.3                          | 4.53                    | 33.16                      | 155                  | 333                     | P                       | H               |
|                                     |      | 2487.4               | 41.1                | -12.9                   | 54                          | 32.52                     | 27.24                         | 4.53                    | 33.17                      | 155                  | 333                     | A                       | H               |
|                                     |      | 2318.96              | 50.02               | -23.98                  | 74                          | 42.24                     | 26.68                         | 4.36                    | 33.24                      | 135                  | 301                     | P                       | V               |
|                                     |      | 2389.1               | 40.51               | -13.49                  | 54                          | 32.39                     | 26.93                         | 4.43                    | 33.22                      | 135                  | 301                     | A                       | V               |
|                                     | *    | 2437                 | 100.42              | -                       | -                           | 92.04                     | 27.11                         | 4.48                    | 33.19                      | 135                  | 301                     | P                       | V               |
|                                     | *    | 2437                 | 92.66               | -                       | -                           | 84.28                     | 27.11                         | 4.48                    | 33.19                      | 135                  | 301                     | A                       | V               |
|                                     |      | 2484.67              | 50.62               | -23.38                  | 74                          | 42.04                     | 27.24                         | 4.53                    | 33.17                      | 135                  | 301                     | P                       | V               |
|                                     |      | 2483.83              | 41.05               | -12.95                  | 54                          | 32.47                     | 27.24                         | 4.53                    | 33.17                      | 135                  | 301                     | A                       | V               |





|                                               |                                                                                             |         |       |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|---------|-------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n<br/>HT20<br/>CH 11<br/>2462MHz</b> | *                                                                                           | 2462    | 95.63 | -      | -  | 87.15 | 27.18 | 4.5  | 33.18 | 235 | 359 | P | H |
|                                               | *                                                                                           | 2462    | 88.28 | -      | -  | 79.8  | 27.18 | 4.5  | 33.18 | 235 | 359 | A | H |
|                                               |                                                                                             | 2483.56 | 51.09 | -22.91 | 74 | 42.51 | 27.24 | 4.53 | 33.17 | 235 | 359 | P | H |
|                                               |                                                                                             | 2483.64 | 41.14 | -12.86 | 54 | 32.56 | 27.24 | 4.53 | 33.17 | 235 | 359 | A | H |
|                                               |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | H |
|                                               |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | H |
|                                               | *                                                                                           | 2462    | 99.67 | -      | -  | 91.19 | 27.18 | 4.5  | 33.18 | 100 | 302 | P | V |
|                                               | *                                                                                           | 2462    | 92.25 | -      | -  | 83.77 | 27.18 | 4.5  | 33.18 | 100 | 302 | A | V |
|                                               |                                                                                             | 2484    | 55.35 | -18.65 | 74 | 46.77 | 27.24 | 4.53 | 33.17 | 100 | 302 | P | V |
|                                               |                                                                                             | 2484.24 | 42.35 | -11.65 | 54 | 33.77 | 27.24 | 4.53 | 33.17 | 100 | 302 | A | V |
|                                               |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | V |
|                                               |                                                                                             |         |       |        |    |       |       |      |       |     |     |   | V |
| <b>Remark</b>                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |       |        |    |       |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT20<br>CH 01<br>2412MHz |                                                                                             | 4824                 | 45.25               | -28.75                  | 74                          | 68.21                     | 32.09                         | 6.36                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4824                 | 43.96               | -30.04                  | 74                          | 66.92                     | 32.09                         | 6.36                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 43.69               | -30.31                  | 74                          | 66.49                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7311                 | 49.29               | -24.71                  | 74                          | 66.13                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4874                 | 44.02               | -29.98                  | 74                          | 66.82                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7311                 | 50.35               | -23.65                  | 74                          | 67.19                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT20<br>CH 11<br>2462MHz |                                                                                             | 4924                 | 44.89               | -29.11                  | 74                          | 67.56                     | 32.33                         | 6.43                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7386                 | 50.06               | -23.94                  | 74                          | 66.62                     | 37.15                         | 8.02                    | 62.08                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4924                 | 44.73               | -29.27                  | 74                          | 67.4                      | 32.33                         | 6.43                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7386                 | 49.9                | -24.1                   | 74                          | 66.46                     | 37.15                         | 8.02                    | 62.08                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |      | 2385.74              | 52.88               | -21.12                  | 74                          | 44.76                     | 26.93                         | 4.43                    | 33.22                      | 211                  | 342                     | P                       | H               |
|                                     |      | 2389.38              | 42.8                | -11.2                   | 54                          | 34.68                     | 26.93                         | 4.43                    | 33.22                      | 211                  | 342                     | A                       | H               |
|                                     | *    | 2422                 | 93.33               | -                       | -                           | 85.02                     | 27.05                         | 4.47                    | 33.19                      | 211                  | 342                     | P                       | H               |
|                                     | *    | 2422                 | 85.75               | -                       | -                           | 77.44                     | 27.05                         | 4.47                    | 33.19                      | 211                  | 342                     | A                       | H               |
|                                     |      | 2491.95              | 50.88               | -23.12                  | 74                          | 42.23                     | 27.3                          | 4.53                    | 33.16                      | 211                  | 342                     | P                       | H               |
|                                     |      | 2498.25              | 41.57               | -12.43                  | 54                          | 32.92                     | 27.3                          | 4.53                    | 33.16                      | 211                  | 342                     | A                       | H               |
|                                     |      | 2389.38              | 56.84               | -17.16                  | 74                          | 48.72                     | 26.93                         | 4.43                    | 33.22                      | 132                  | 300                     | P                       | V               |
|                                     |      | 2389.52              | 45.24               | -8.76                   | 54                          | 37.12                     | 26.93                         | 4.43                    | 33.22                      | 132                  | 300                     | A                       | V               |
|                                     | *    | 2422                 | 97.94               | -                       | -                           | 89.63                     | 27.05                         | 4.47                    | 33.19                      | 132                  | 300                     | P                       | V               |
|                                     | *    | 2422                 | 90.36               | -                       | -                           | 82.05                     | 27.05                         | 4.47                    | 33.19                      | 132                  | 300                     | A                       | V               |
|                                     |      | 2488.45              | 50.93               | -23.07                  | 74                          | 42.29                     | 27.3                          | 4.53                    | 33.17                      | 132                  | 300                     | P                       | V               |
|                                     |      | 2489.29              | 41.78               | -12.22                  | 54                          | 33.14                     | 27.3                          | 4.53                    | 33.17                      | 132                  | 300                     | A                       | V               |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |      | 2372.44              | 50.04               | -23.96                  | 74                          | 41.99                     | 26.87                         | 4.42                    | 33.22                      | 151                  | 337                     | P                       | H               |
|                                     |      | 2388.12              | 41.15               | -12.85                  | 54                          | 33.03                     | 26.93                         | 4.43                    | 33.22                      | 151                  | 337                     | A                       | H               |
|                                     | *    | 2437                 | 93.58               | -                       | -                           | 85.2                      | 27.11                         | 4.48                    | 33.19                      | 151                  | 337                     | P                       | H               |
|                                     | *    | 2437                 | 86.03               | -                       | -                           | 77.65                     | 27.11                         | 4.48                    | 33.19                      | 151                  | 337                     | A                       | H               |
|                                     |      | 2499.93              | 51.51               | -22.49                  | 74                          | 42.86                     | 27.3                          | 4.53                    | 33.16                      | 151                  | 337                     | P                       | H               |
|                                     |      | 2487.75              | 41.85               | -12.15                  | 54                          | 33.21                     | 27.3                          | 4.53                    | 33.17                      | 151                  | 337                     | A                       | H               |
|                                     |      | 2389.94              | 50.99               | -23.01                  | 74                          | 42.86                     | 26.93                         | 4.43                    | 33.21                      | 227                  | 239                     | P                       | V               |
|                                     |      | 2389.52              | 41.9                | -12.1                   | 54                          | 33.78                     | 26.93                         | 4.43                    | 33.22                      | 227                  | 239                     | A                       | V               |
|                                     | *    | 2437                 | 98.46               | -                       | -                           | 90.08                     | 27.11                         | 4.48                    | 33.19                      | 227                  | 239                     | P                       | V               |
|                                     | *    | 2437                 | 90.98               | -                       | -                           | 82.6                      | 27.11                         | 4.48                    | 33.19                      | 227                  | 239                     | A                       | V               |
|                                     |      | 2483.9               | 50.76               | -23.24                  | 74                          | 42.18                     | 27.24                         | 4.53                    | 33.17                      | 227                  | 239                     | P                       | V               |
|                                     |      | 2494.05              | 42.03               | -11.97                  | 54                          | 33.38                     | 27.3                          | 4.53                    | 33.16                      | 227                  | 239                     | A                       | V               |



|                                                                 |                                                                                             |         |       |        |    |       |       |      |       |     |     |   |   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|-------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| <b>802.11n</b><br><b>HT40</b><br><b>CH 09</b><br><b>2452MHz</b> |                                                                                             | 2386.44 | 50.75 | -23.25 | 74 | 42.63 | 26.93 | 4.43 | 33.22 | 131 | 332 | P | H |
|                                                                 |                                                                                             | 2385.88 | 41.33 | -12.67 | 54 | 33.21 | 26.93 | 4.43 | 33.22 | 131 | 332 | A | H |
|                                                                 | *                                                                                           | 2452    | 93.79 | -      | -  | 85.38 | 27.11 | 4.5  | 33.18 | 131 | 332 | P | H |
|                                                                 | *                                                                                           | 2452    | 86.72 | -      | -  | 78.31 | 27.11 | 4.5  | 33.18 | 131 | 332 | A | H |
|                                                                 |                                                                                             | 2484.53 | 50.37 | -23.63 | 74 | 41.79 | 27.24 | 4.53 | 33.17 | 131 | 332 | P | H |
|                                                                 |                                                                                             | 2484.32 | 41.98 | -12.02 | 54 | 33.4  | 27.24 | 4.53 | 33.17 | 131 | 332 | A | H |
|                                                                 |                                                                                             | 2389.1  | 51.04 | -22.96 | 74 | 42.92 | 26.93 | 4.43 | 33.22 | 262 | 238 | P | V |
|                                                                 |                                                                                             | 2389.8  | 41.57 | -12.43 | 54 | 33.44 | 26.93 | 4.43 | 33.21 | 262 | 238 | A | V |
|                                                                 | *                                                                                           | 2452    | 97.48 | -      | -  | 89.07 | 27.11 | 4.5  | 33.18 | 262 | 238 | P | V |
|                                                                 | *                                                                                           | 2452    | 90.34 | -      | -  | 81.93 | 27.11 | 4.5  | 33.18 | 262 | 238 | A | V |
|                                                                 |                                                                                             | 2483.76 | 53.98 | -20.02 | 74 | 45.4  | 27.24 | 4.53 | 33.17 | 262 | 238 | P | V |
|                                                                 |                                                                                             | 2483.5  | 44.57 | -9.43  | 54 | 35.99 | 27.24 | 4.53 | 33.17 | 262 | 238 | A | V |
| <b>Remark</b>                                                   | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |       |        |    |       |       |      |       |     |     |   |   |



## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                 | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|-------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| 802.11n<br>HT40<br>CH 03<br>2422MHz |                                                                                             | 4844                 | 43.74               | -30.26                  | 74                          | 66.64                     | 32.13                         | 6.38                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7266                 | 49.62               | -24.38                  | 74                          | 66.58                     | 36.74                         | 7.93                    | 62.06                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4844                 | 43.74               | -30.26                  | 74                          | 66.64                     | 32.13                         | 6.38                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7266                 | 49.82               | -24.18                  | 74                          | 66.78                     | 36.74                         | 7.93                    | 62.06                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 06<br>2437MHz |                                                                                             | 4874                 | 43.33               | -30.67                  | 74                          | 66.13                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7311                 | 49.43               | -24.57                  | 74                          | 66.27                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4874                 | 44.43               | -29.57                  | 74                          | 67.23                     | 32.21                         | 6.41                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7311                 | 49.35               | -24.65                  | 74                          | 66.19                     | 36.86                         | 7.96                    | 62.06                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| 802.11n<br>HT40<br>CH 09<br>2452MHz |                                                                                             | 4904                 | 44.13               | -29.87                  | 74                          | 66.85                     | 32.29                         | 6.42                    | 61.9                       | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             | 7356                 | 49.24               | -24.76                  | 74                          | 65.9                      | 37.03                         | 8.01                    | 62.07                      | 100                  | 0                       | P                       | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | H               |
|                                     |                                                                                             | 4904                 | 44.79               | -29.21                  | 74                          | 67.51                     | 32.29                         | 6.42                    | 61.9                       | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             | 7356                 | 49.84               | -24.16                  | 74                          | 66.5                      | 37.03                         | 8.01                    | 62.07                      | 100                  | 0                       | P                       | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
|                                     |                                                                                             |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         | V               |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                         |                             |                           |                               |                         |                            |                      |                         |                         |                 |



## 2.4GHz 2400~2483.5MHz

## Emission below 1GHz

## 2.4GHz WIFI 802.11n HT40 (LF)

| WIFI Ant.                       | Note                                                                       | Frequency | Level      | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|---------------------------------|----------------------------------------------------------------------------|-----------|------------|------------|------------|------------|----------------|------------|---------------|---------|-----------|-----------|-------|
| 1+2                             |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB )     | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )     | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 2.4GHz<br>802.11n<br>HT40<br>LF |                                                                            | 31.35     | 22.32      | -17.68     | 40         | 30.68      | 23.78          | 0.53       | 32.75         | -       | -         | P         | H     |
|                                 |                                                                            | 38.64     | 18.49      | -21.51     | 40         | 30.65      | 19.95          | 0.53       | 32.75         | -       | -         | P         | H     |
|                                 |                                                                            | 102.36    | 23.44      | -20.06     | 43.5       | 38.66      | 16.34          | 0.97       | 32.77         | -       | -         | P         | H     |
|                                 |                                                                            | 489.7     | 24.18      | -21.82     | 46         | 30.73      | 23.76          | 2.08       | 32.87         | -       | -         | P         | H     |
|                                 |                                                                            | 859.3     | 31.05      | -14.95     | 46         | 30.95      | 29.3           | 2.67       | 32.54         | -       | -         | P         | H     |
|                                 |                                                                            | 944       | 32.8       | -13.2      | 46         | 30.53      | 30.5           | 2.78       | 31.81         | 100     | 0         | P         | H     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | H     |
|                                 |                                                                            | 31.35     | 24.8       | -15.2      | 40         | 33.16      | 23.78          | 0.53       | 32.75         | -       | -         | P         | V     |
|                                 |                                                                            | 39.99     | 24.13      | -15.87     | 40         | 36.65      | 19.43          | 0.69       | 32.75         | -       | -         | P         | V     |
|                                 |                                                                            | 78.33     | 24.43      | -15.57     | 40         | 43         | 13.15          | 0.86       | 32.76         | -       | -         | P         | V     |
|                                 |                                                                            | 563.9     | 26.57      | -19.43     | 46         | 30.65      | 26.09          | 2.21       | 32.96         | -       | -         | P         | V     |
|                                 |                                                                            | 790.7     | 30.48      | -15.52     | 46         | 31.96      | 28.22          | 2.58       | 32.91         | -       | -         | P         | V     |
|                                 |                                                                            | 951.7     | 32.8       | -13.2      | 46         | 30.15      | 30.79          | 2.78       | 31.73         | 100     | 0         | P         | V     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
|                                 |                                                                            |           |            |            |            |            |                |            |               |         |           |           | V     |
| Remark                          | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |            |            |            |                |            |               |         |           |           |       |



**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.                                                                                                                   |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |



A calculation example for radiated spurious emission is shown as below:

| WIFI    | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Cable  | Preamp | Ant    | Table   | Peak    | Pol.    |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant.    |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
| 1+2     |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| 802.11b |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
| CH 01   |      |           |            |        |            |          |          |        |        |        |         |         |         |
| 2412MHz |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**





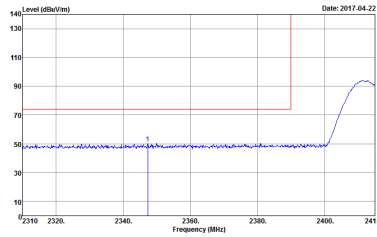
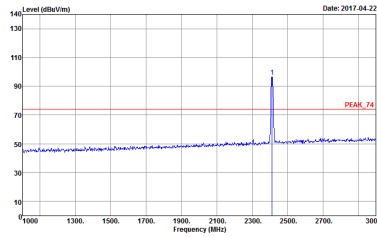
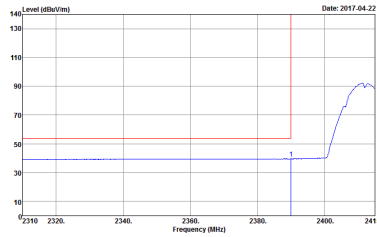
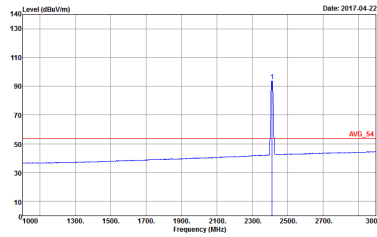
## Appendix D. Radiated Spurious Emission Plots

|                        |                            |                            |         |
|------------------------|----------------------------|----------------------------|---------|
| <b>Test Engineer :</b> | Stan Hsieh and Kyle Chuang | <b>Temperature :</b>       | 22~24°C |
|                        |                            | <b>Relative Humidity :</b> | 43~44%  |

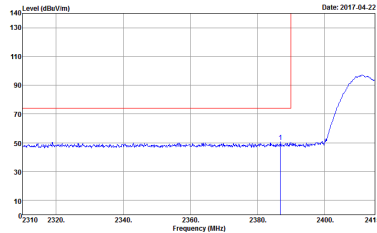
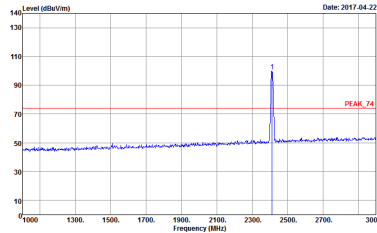
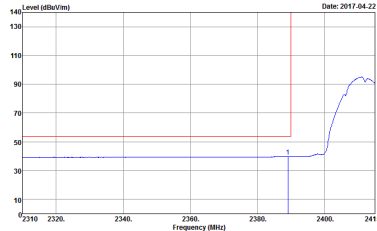
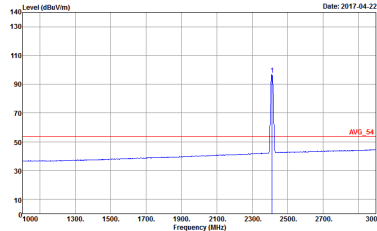
**Note symbol**

|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |

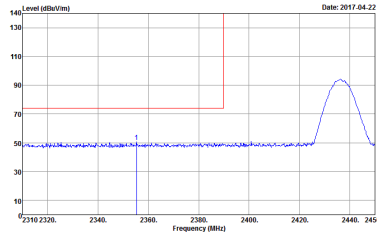
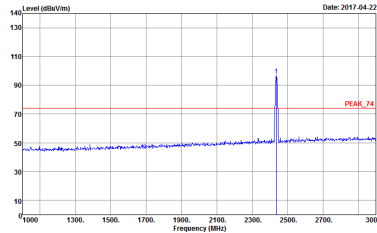
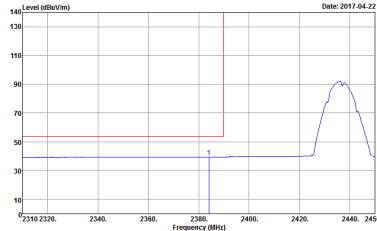
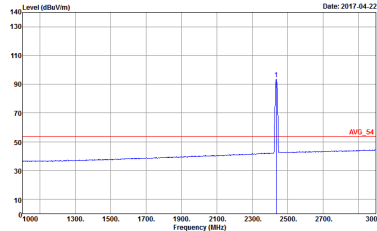
**2.4GHz 2400~2483.5MHz**
**WIFI 802.11b (Band Edge @ 3m)**

| WIFI        | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11b CH01 2412MHz                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                   |
| 1+2         | Horizontal                                                                                                                                                                                                                                                          | Fundamental                                                                                                                                                                                                                                                       |
| <b>Peak</b> |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p> |  <p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p> |
|             |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p>   |  <p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:0.010KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p>   |

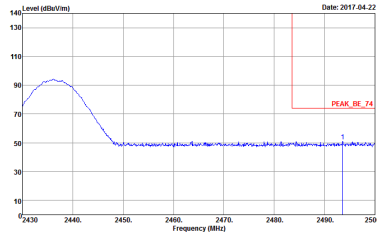
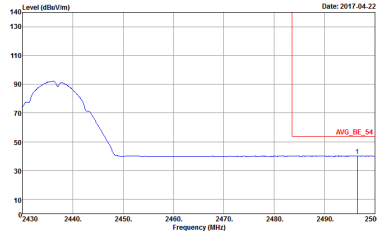


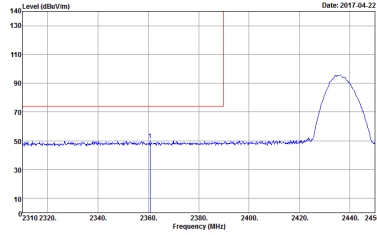
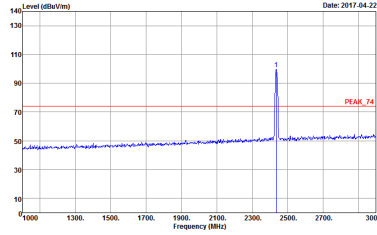
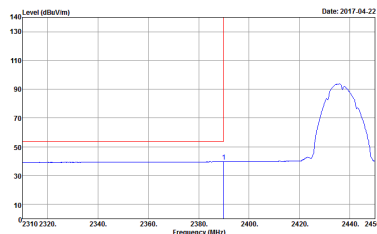
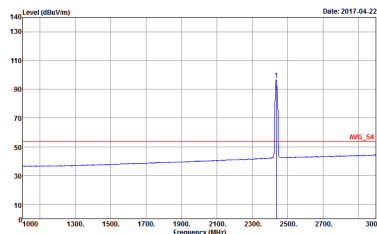
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH01 2412MHz                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p></div>  | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p></div>  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p></div> |

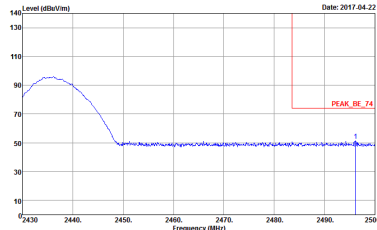
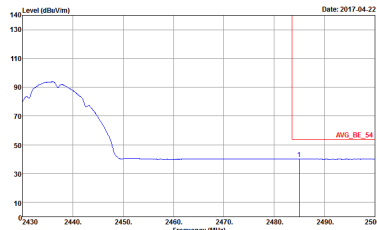


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                              |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p></div>  | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p></div>  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p></div> |

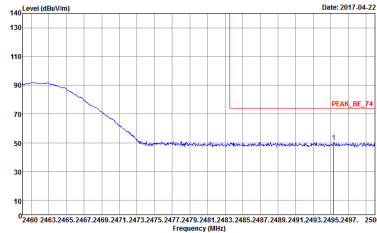
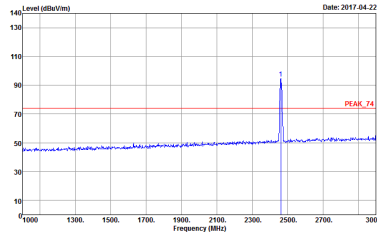
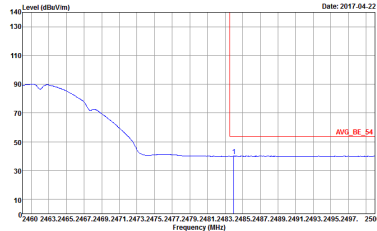
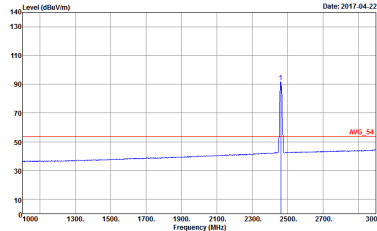


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                                                                                       |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 8</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 8</p></div> | Left blank  |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH06 2437MHz - L                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                  |
| 1+2  | Vertical                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                      |
| Peak |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p>  |  <p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p>  |
| Avg. |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p> |  <p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : B</p> |

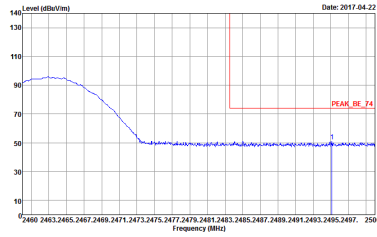
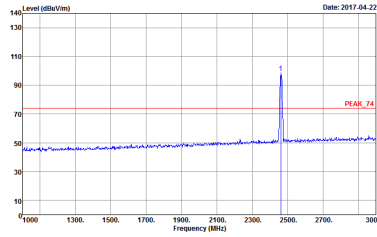
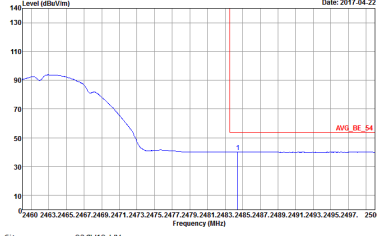
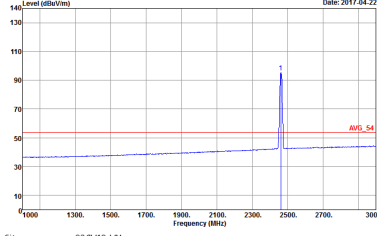
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                          |             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11b CH06 2437MHz - R                                                                                                                                                                                                                                                                                                                      |             |
| 1+2  | Vertical                                                                                                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH10-HY<br/>           Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : B         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH10-HY<br/>           Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : B         </p> | Left blank  |



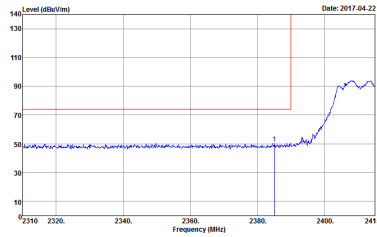
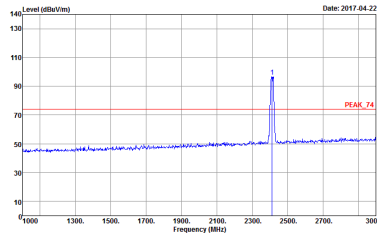
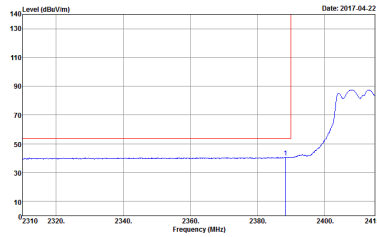
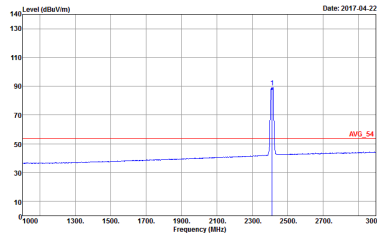
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Peak | <div><p>Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Horizontal. The plot shows a signal level starting around 90 dBm/100kHz at 2400 MHz, dropping to about 50 dBm/100kHz by 2462 MHz, and then remaining flat. A red line indicates the peak level at 2462 MHz, labeled 'PEAK_BE_74'.</p><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div>   | <div><p>Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal level starting around 90 dBm/100kHz at 2400 MHz, dropping to about 50 dBm/100kHz by 2462 MHz, and then remaining flat. A red line indicates the peak level at 2462 MHz, labeled 'PEAK_74'.</p><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div>   |
| Avg. | <div><p>Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Horizontal. The plot shows a signal level starting around 90 dBm/100kHz at 2400 MHz, dropping to about 50 dBm/100kHz by 2462 MHz, and then remaining flat. A red line indicates the average level at 2462 MHz, labeled 'AVG_BE_54'.</p><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div> | <div><p>Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a signal level starting around 90 dBm/100kHz at 2400 MHz, dropping to about 50 dBm/100kHz by 2462 MHz, and then remaining flat. A red line indicates the average level at 2462 MHz, labeled 'AVG_54'.</p><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div> |



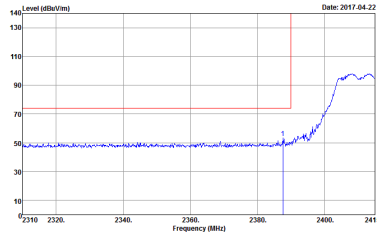
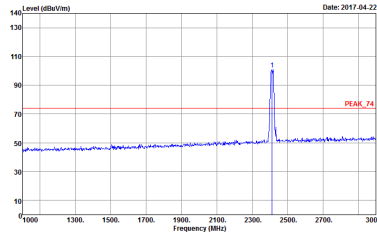
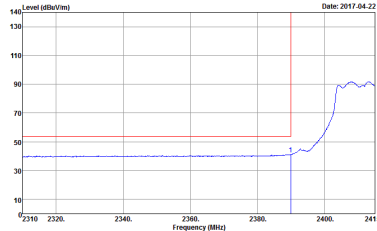
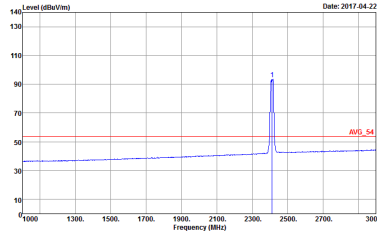


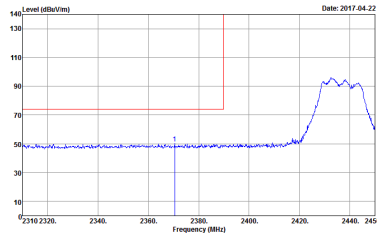
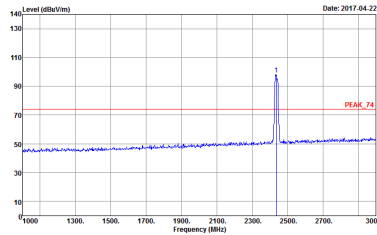
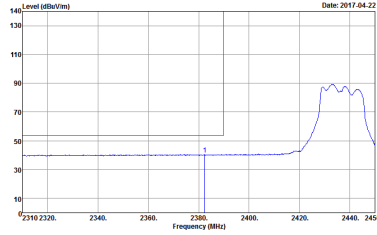
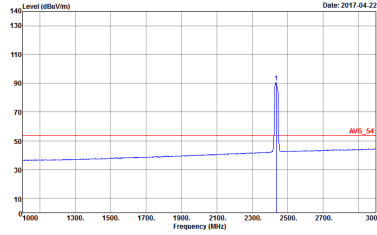
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11b CH11 2462MHz                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div>  | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div>  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div> |

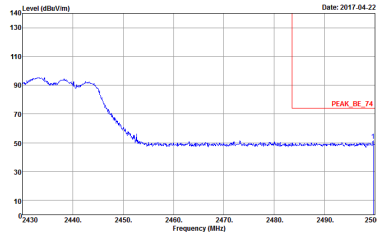
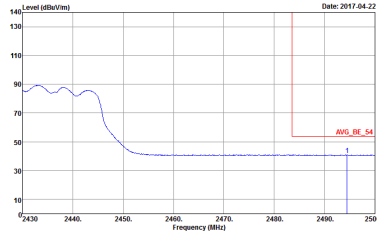
**2.4GHz 2400~2483.5MHz**
**WIFI 802.11g (Band Edge @ 3m)**

| WIFI        | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT         | 802.11g CH01 2412MHz                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                    |
| 1+2         | Horizontal                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                        |
| <b>Peak</b> |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p> |  <p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p> |
|             |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p>    |  <p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p>    |

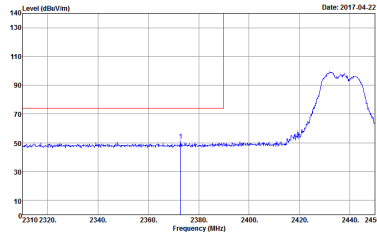
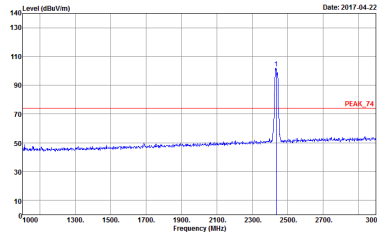
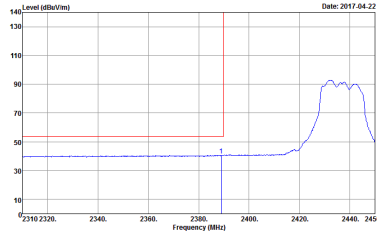
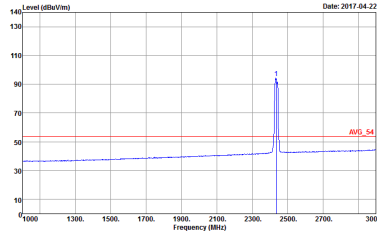


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH01 2412MHz                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p></div>   |

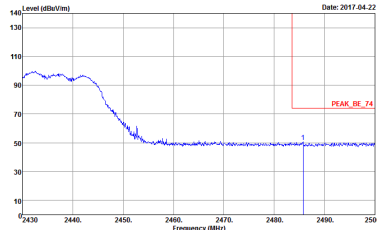
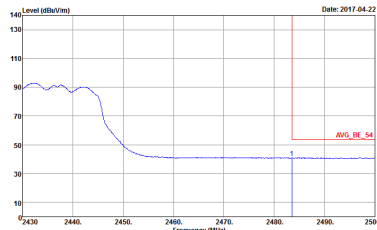
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                     |                                                                                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                                                                 |                                                                                                                                                                                                                        |
| 1+2  | Horizontal                                                                                                                                                                                                               | Fundamental                                                                                                                                                                                                            |
| Peak |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p>  |  <p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p>  |
| Avg. |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p> |  <p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p> |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                            |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                                                                                                                                                        |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                      | Fundamental |
| Peak |  <p>           Site : 03CH10-HY<br/>           Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 11         </p> | Left blank  |
| Avg. |  <p>           Site : 03CH10-HY<br/>           Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 11         </p>   | Left blank  |

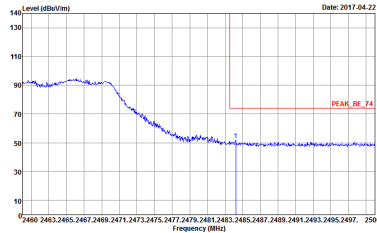
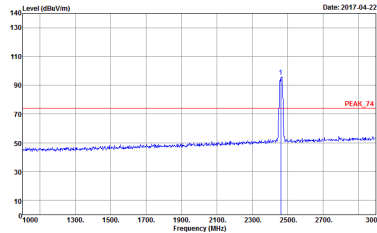
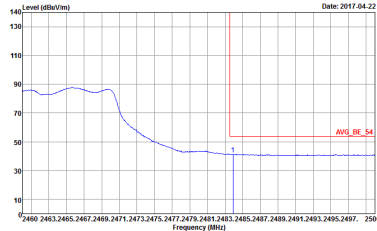
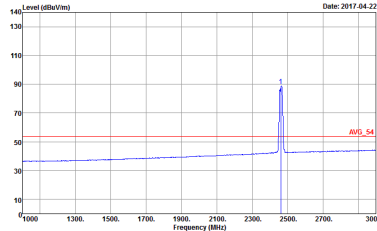


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH06 2437MHz - L                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p></div>   |



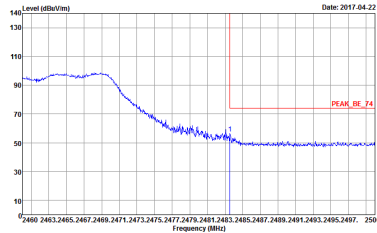
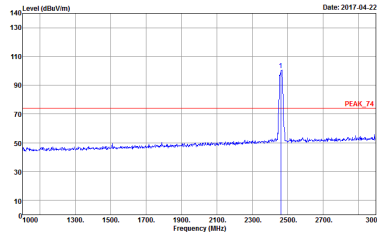
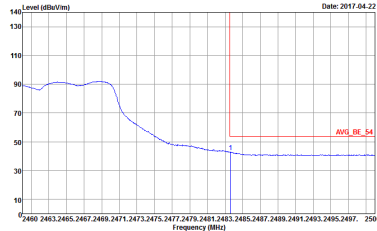
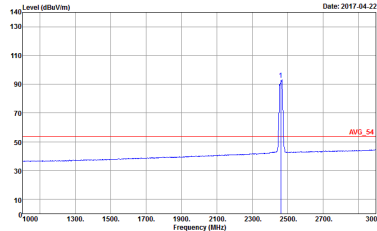
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11g CH06 2437MHz - R                                                                                                                                                                                                                                                     |             |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p></div> | Left Blank  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p></div>   | Left Blank  |



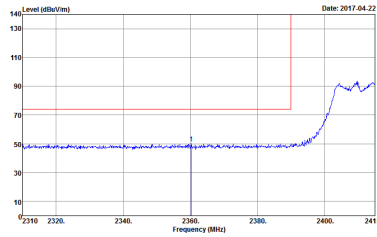
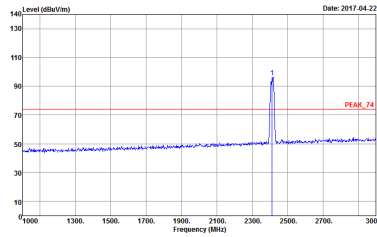
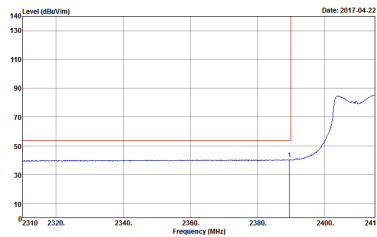
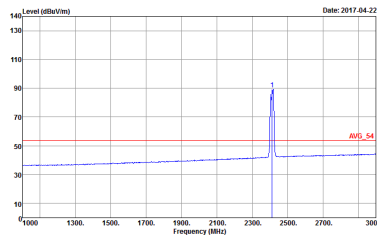
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div>   |



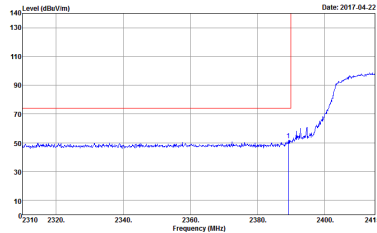
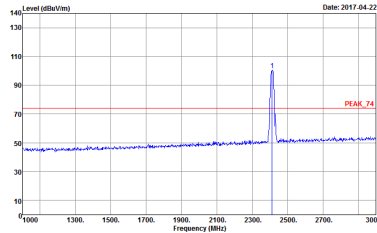
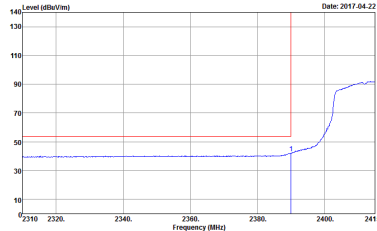
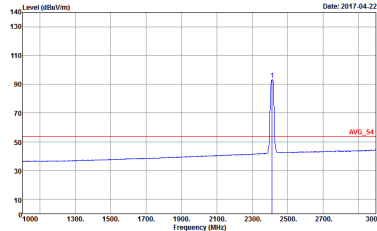


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11g CH11 2462MHz                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p></div>   |

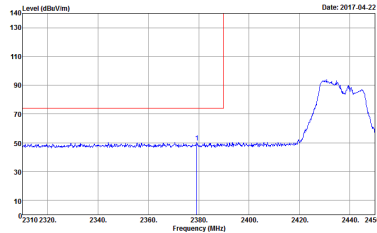
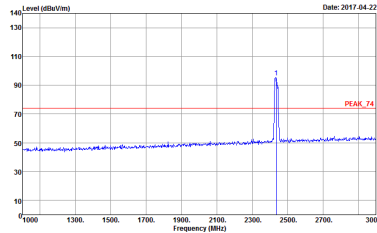
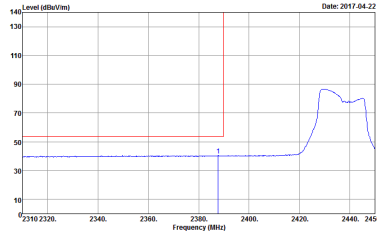
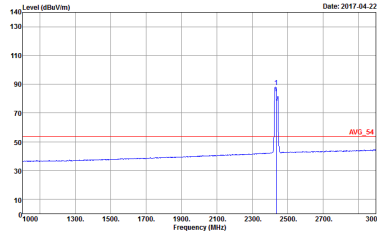
**2.4GHz 2400~2483.5MHz**
**WIFI 802.11n HT20 (Band Edge @ 3m)**

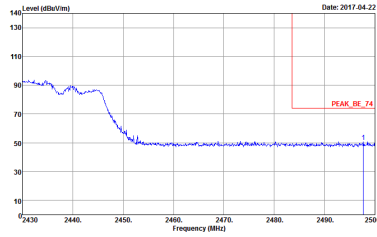
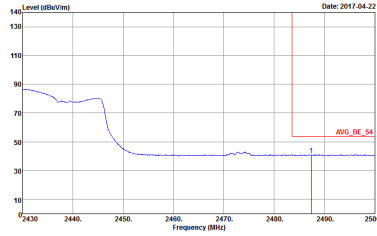
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH01 2412MHz                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                    |
| 1+2  | Horizontal                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p> |  <p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p> |
| Avg. |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p>    |  <p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p>    |



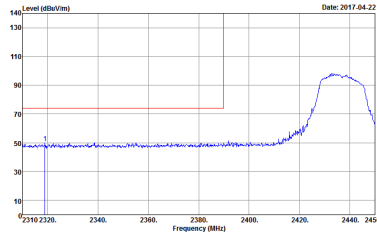
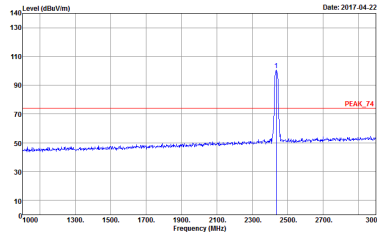
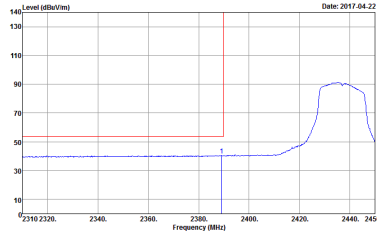
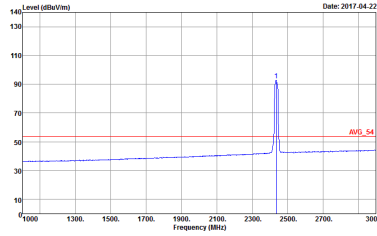
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH01 2412MHz                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 13</p></div>   |



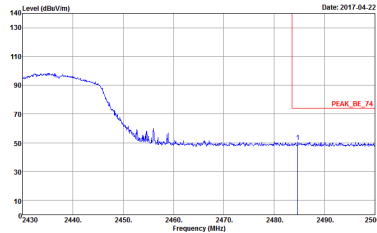
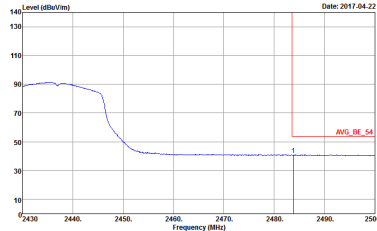
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH06 2437MHz - L                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                              |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div>    | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div>    |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                 |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH06 2437MHz - R                                                                                                                                                                                                                                        |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                                           | Fundamental |
| Peak |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p> | Left blank  |
| Avg. |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p>   | Left blank  |

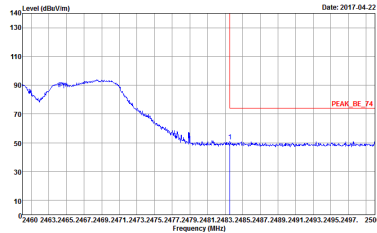
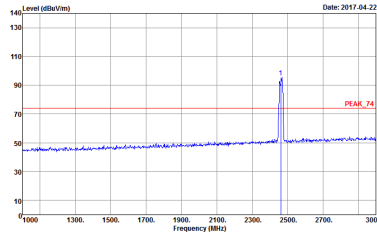
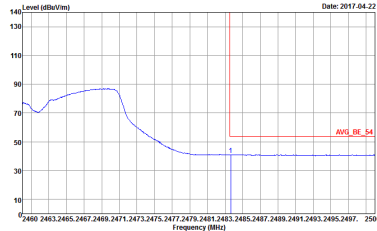
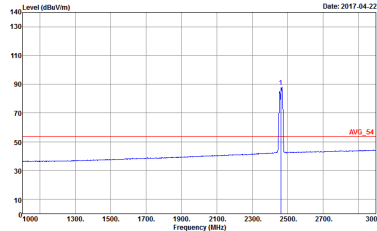


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH06 2437MHz - L                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div>   |



| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT20 CH06 2437MHz - R                                                                                                                                                                                                                                                |             |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div> | Left Blank  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p></div>   | Left Blank  |



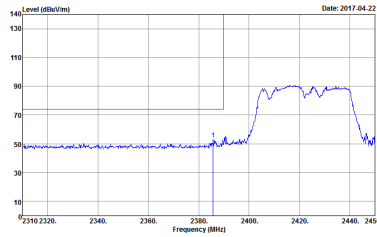
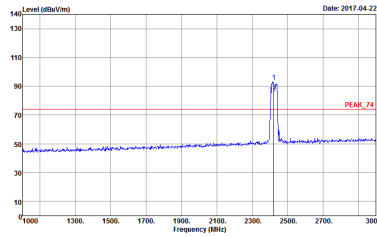
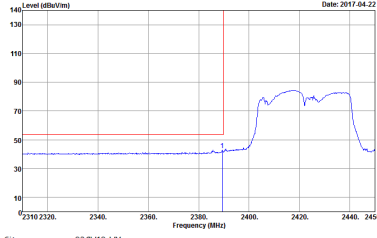
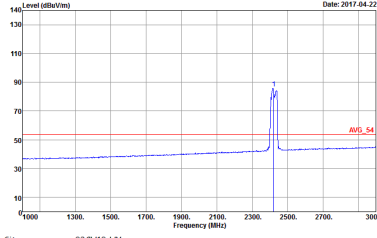
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH11 2462MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fundamental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Peak | <div><p>Level (dBm/Vm) vs Frequency (MHz) plot for Peak Horizontal. The plot shows a blue line representing the spectrum with a sharp peak at 2462 MHz. A red horizontal line indicates the peak level at approximately 100 dBm/Vm. The x-axis ranges from 2460 to 2500 MHz, and the y-axis ranges from 10 to 140 dBm/Vm.</p><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div> | <div><p>Level (dBm/Vm) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a blue line representing the spectrum with a sharp peak at 2462 MHz. A red horizontal line indicates the peak level at approximately 100 dBm/Vm. The x-axis ranges from 2400 to 3000 MHz, and the y-axis ranges from 10 to 140 dBm/Vm.</p><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div> |
| Avg. | <div><p>Level (dBm/Vm) vs Frequency (MHz) plot for Avg Horizontal. The plot shows a blue line representing the spectrum with a sharp peak at 2462 MHz. A red horizontal line indicates the average level at approximately 50 dBm/Vm. The x-axis ranges from 2460 to 2500 MHz, and the y-axis ranges from 10 to 140 dBm/Vm.</p><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div>  | <div><p>Level (dBm/Vm) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a blue line representing the spectrum with a sharp peak at 2462 MHz. A red horizontal line indicates the average level at approximately 50 dBm/Vm. The x-axis ranges from 2400 to 3000 MHz, and the y-axis ranges from 10 to 140 dBm/Vm.</p><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div>  |



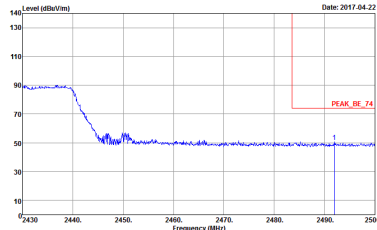
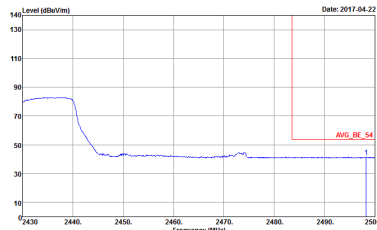


| WIFI | 2.4GHz 2400~2483.5MHz Fundamental @ 3m                                                                                                                                                      |                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT20 CH11 2462MHz                                                                                                                                                                   |                                                                                                                                                                                          |
| 1+2  | Vertical                                                                                                                                                                                    | Fundamental                                                                                                                                                                              |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div>     | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p></div>     |

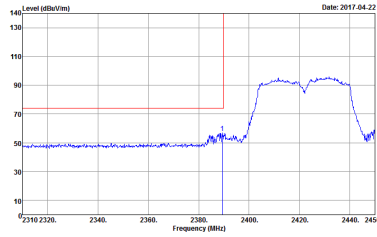
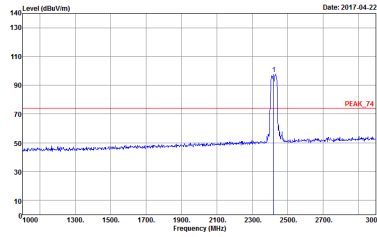
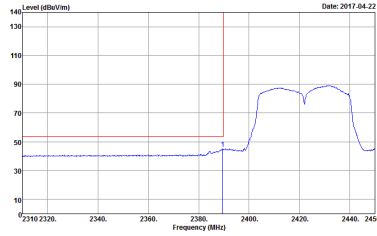
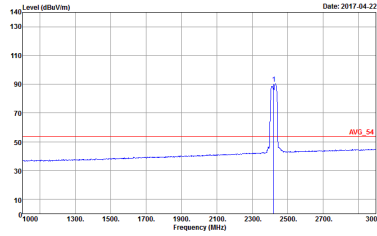
**2.4GHz 2400~2483.5MHz**
**WIFI 802.11n HT40 (Band Edge @ 3m)**

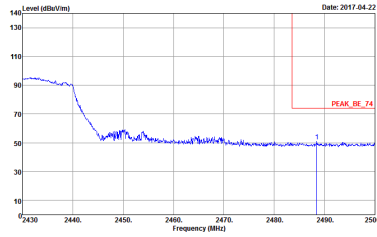
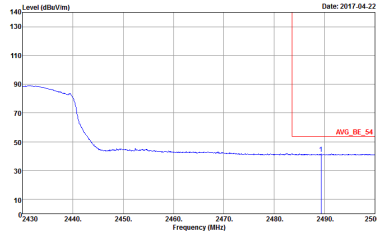
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH03 2422MHz - L                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |
| 1+2  | Horizontal                                                                                                                                                                                                                                                           | Fundamental                                                                                                                                                                                                                                                        |
| Peak |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p> |  <p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p> |
| Avg. |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000kHz VBW:3.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p>   |  <p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL<br/>RBW:1000.000kHz VBW:3.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p>   |



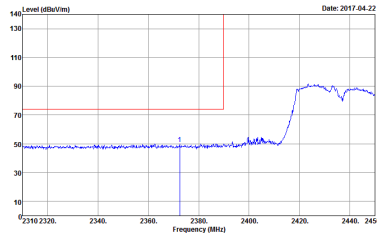
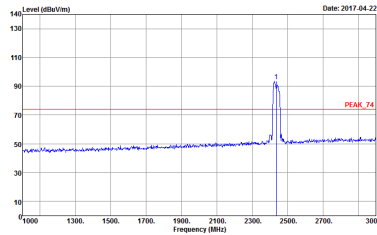
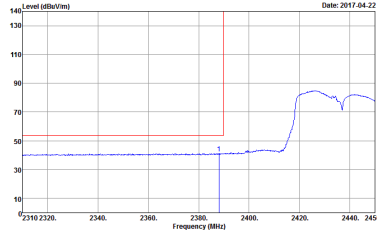
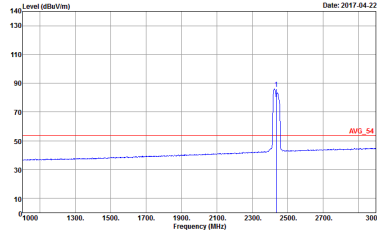
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                            |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH03 2422MHz - R                                                                                                                                                                                                                                                   |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                      | Fundamental |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p></div>  | Left Blank  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p></div> | Left Blank  |



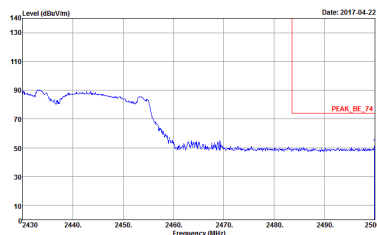
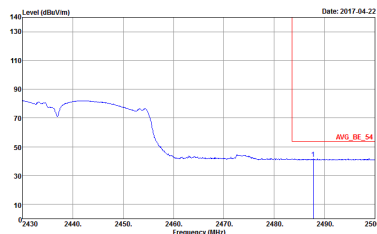
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH03 2422MHz - L                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p></div>   |

| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                |             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH03 2422MHz - R                                                                                                                                                                                                                                       |             |
| 1+2  | Vertical                                                                                                                                                                                                                                                            | Fundamental |
| Peak |  <p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p>  | Left blank  |
| Avg. |  <p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 16</p> | Left blank  |

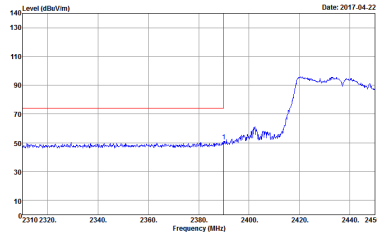
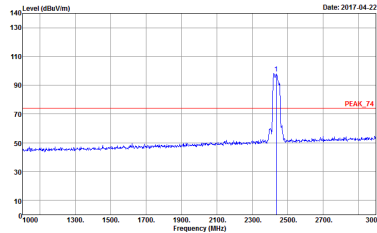
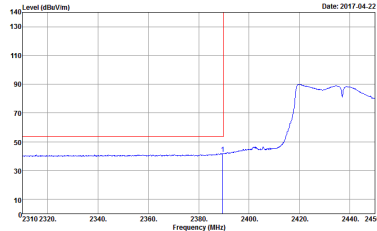
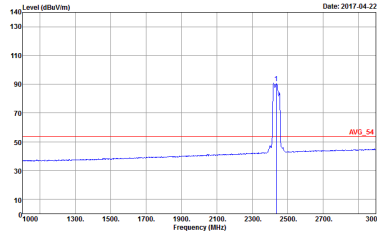


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH06 2437MHz - L                                                                                                                                                                                                      |                                                                                                                                                                                                                                  |
| 1+2  | Horizontal                                                                                                                                                                                                                         | Fundamental                                                                                                                                                                                                                      |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div>  | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div>  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 91200-HF HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div> |



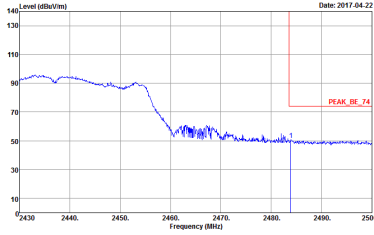
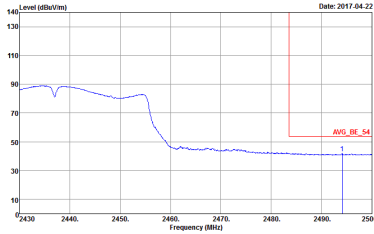
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                               |             |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH06 2437MHz - R                                                                                                                                                                                                                                                                                                                      |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                         | Fundamental |
| Peak |  <p>           Site : 03CH10-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 17         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH10-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 17         </p> | Left blank  |



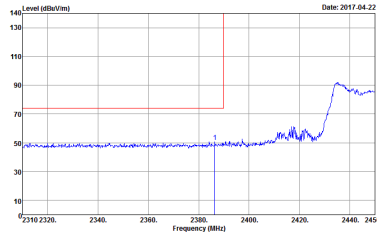
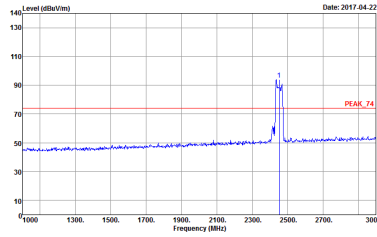
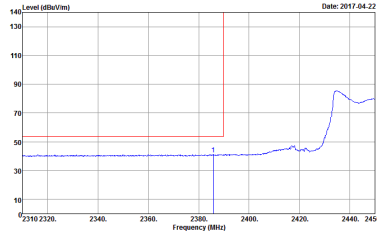
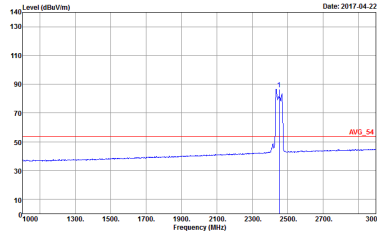
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH06 2437MHz - L                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                             |
| 1+2  | Vertical                                                                                                                                                                                                                                                                      | Fundamental                                                                                                                                                                                                                                                                 |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div>  | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div>  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 9120D-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div> |

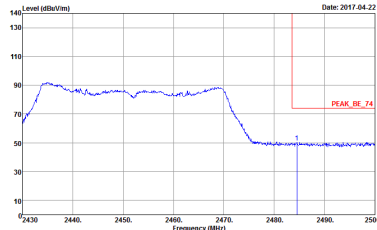
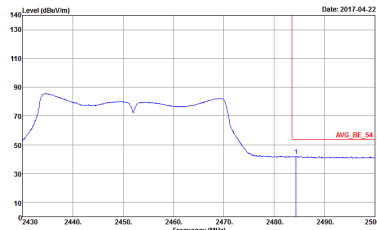




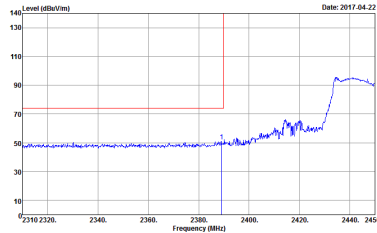
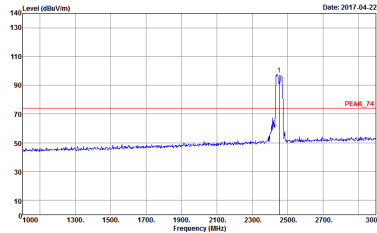
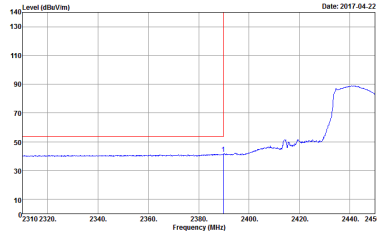
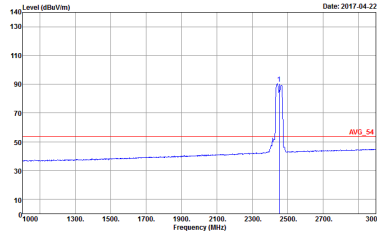
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                          |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH06 2437MHz - R                                                                                                                                                                                                                                                 |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                    | Fundamental |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div>  | Left blank  |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p></div> | Left blank  |

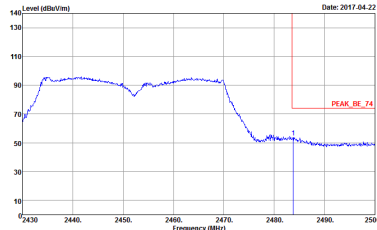
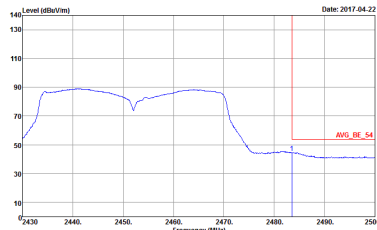


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH09 2452MHz - L                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                              |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                  |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 91200-HF HORIZONTAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div>   |

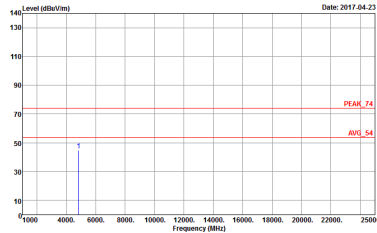
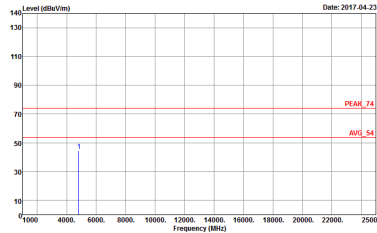
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                             |             |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH09 2452MHz - R                                                                                                                                                                                                                                                                                                                    |             |
| 1+2  | Horizontal                                                                                                                                                                                                                                                                                                                                       | Fundamental |
| Peak |  <p>           Site : 03CH10-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 1B         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH10-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL<br/>           RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 1B         </p> | Left blank  |

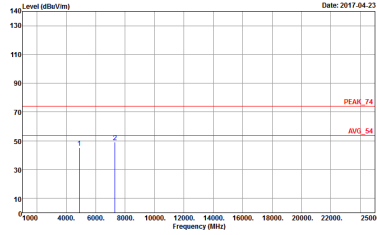
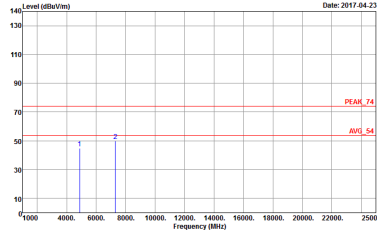


| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT  | 802.11n HT40 CH09 2452MHz - L                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |
| 1+2  | Vertical                                                                                                                                                                                                                                                                     | Fundamental                                                                                                                                                                                                                                                                |
| Peak | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div> | <div><p>Site : 03CH10-HY<br/>Condition : PEAK_74 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div> |
| Avg. | <div><p>Site : 03CH10-HY<br/>Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div>   | <div><p>Site : 03CH10-HY<br/>Condition : AVG_54 3m HORN 91200-HF VERTICAL<br/>RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 1B</p></div>   |

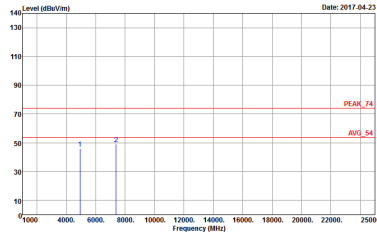
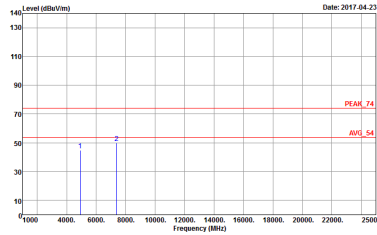
| WIFI | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                           |             |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ANT  | 802.11n HT40 CH09 2452MHz - R                                                                                                                                                                                                                                                                                                                  |             |
| 1+2  | Vertical                                                                                                                                                                                                                                                                                                                                       | Fundamental |
| Peak |  <p>           Site : 03CH10-HY<br/>           Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL<br/>           RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 1B         </p>  | Left blank  |
| Avg. |  <p>           Site : 03CH10-HY<br/>           Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL<br/>           RBW:1000.000kHz VBW:3000.000kHz SWT:Auto<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 1B         </p> | Left blank  |

**2.4GHz 2400~2483.5MHz**
**WIFI 802.11b (Harmonic @ 3m)**

| WIFI                           | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                          |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11b CH01 2412MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                          |
| 1+2                            | Horizontal                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                 |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH10-14Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p> |  <p>Site : 03CH10-14Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 7</p> |

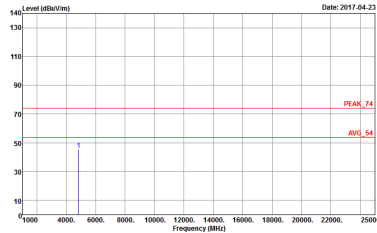
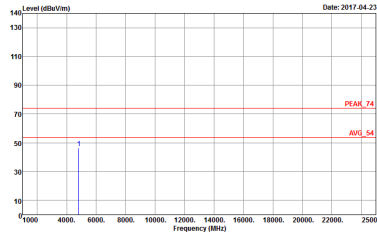
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                       |                                                                                                                                                                                                                          |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11b CH06 2437MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                          |
| 1+2          | Horizontal                                                                                                                                                                                                                | Vertical                                                                                                                                                                                                                 |
| Peak<br>Avg. |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 8</p> |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 8</p> |
|              |                                                                                                                                                                                                                           |                                                                                                                                                                                                                          |

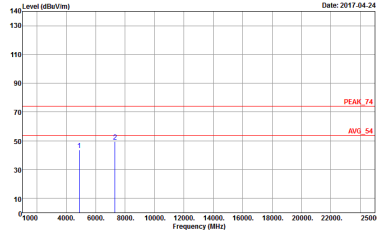
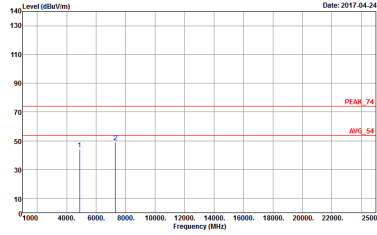


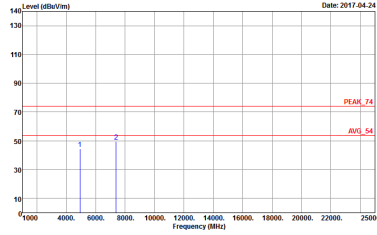
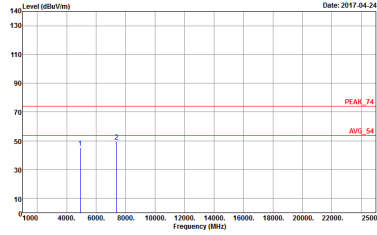
|              |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                    |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                 |                                                                                                                                                                                                                                    |
| ANT          | 802.11b CH11 2462MHz                                                                                                                                                                                                                |                                                                                                                                                                                                                                    |
| 1+2          | Horizontal                                                                                                                                                                                                                          | Vertical                                                                                                                                                                                                                           |
| Peak<br>Avg. | <div><p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div> | <div><p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 9</p></div> |



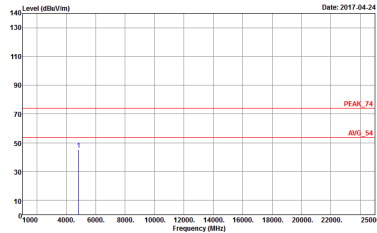
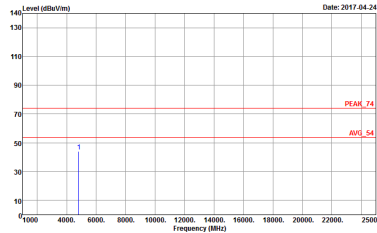
**2.4GHz 2400~2483.5MHz**
**WIFI 802.11g (Harmonic @ 3m)**

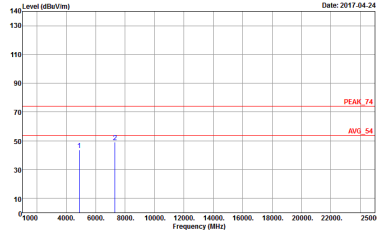
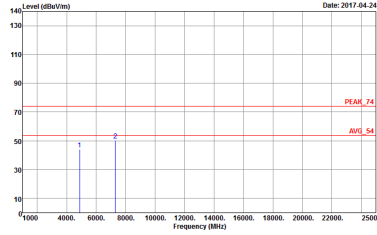
| WIFI                           | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11g CH01 2412MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                           |
| 1+2                            | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                  |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH10-14Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p> |  <p>Site : 03CH10-14Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 10</p> |

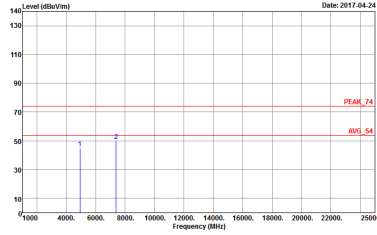
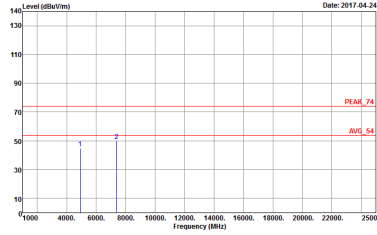
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g CH06 2437MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                           |
| 1+2          | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                  |
| Peak<br>Avg. |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p> |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 11</p> |
|              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11g CH11 2462MHz                                                                                                                                                                                                       |                                                                                                                                                                                                                           |
| 1+2          | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                  |
| Peak<br>Avg. |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p> |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 12</p> |
|              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |

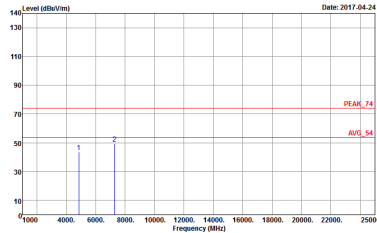
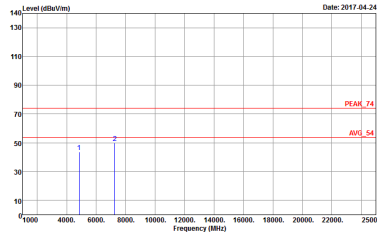
**2.4GHz 2400~2483.5MHz**
**WIFI 802.11n HT20 (Harmonic @ 3m)**

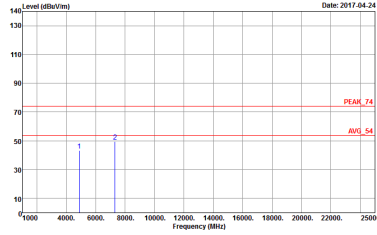
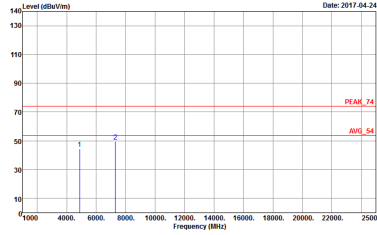
| WIFI                           | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                              |                                                                                                                                                                                                                                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11n HT20 CH01 2412MHz                                                                                                                                                                                                        |                                                                                                                                                                                                                                 |
| 1+2                            | Horizontal                                                                                                                                                                                                                       | Vertical                                                                                                                                                                                                                        |
| <b>Peak</b><br><br><b>Avg.</b> |  <p> Site : 03CH10-14Y<br/> Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/> Detector : Peak<br/> Project : 740120<br/> Mode : 13 </p> |  <p> Site : 03CH10-14Y<br/> Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/> Detector : Peak<br/> Project : 740120<br/> Mode : 13 </p> |

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH06 2437MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                           |
| 1+2          | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                  |
| Peak<br>Avg. |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p> |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 14</p> |
|              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |

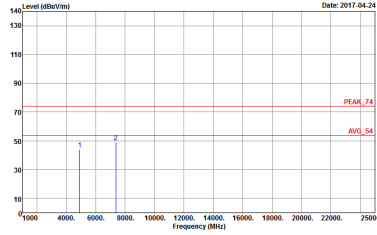
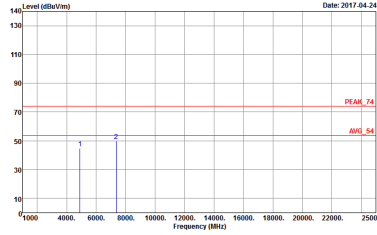
| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT20 CH11 2462MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                           |
| 1+2          | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                  |
| Peak<br>Avg. |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p> |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 15</p> |
|              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |

**2.4GHz 2400~2483.5MHz**
**WIFI 802.11n HT40 (Harmonic @ 3m)**

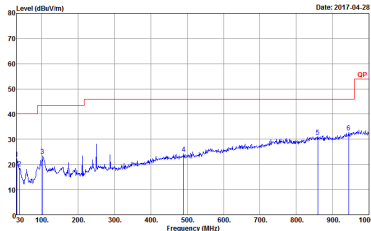
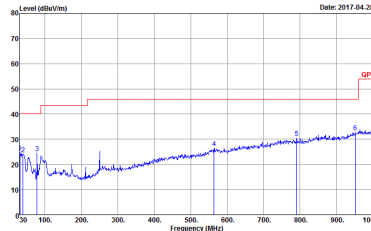
| WIFI                           | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                            |                                                                                                                                                                                                                               |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                            | 802.11n HT40 CH03 2422MHz                                                                                                                                                                                                      |                                                                                                                                                                                                                               |
| 1+2                            | Horizontal                                                                                                                                                                                                                     | Vertical                                                                                                                                                                                                                      |
| <b>Peak</b><br><br><b>Avg.</b> |  <p>Site : 03CH10-14Y<br/> Condition : PEAK_74 3m HORN_9170_40G_0584 HORIZONTAL<br/> Detector : Peak<br/> Project : 740120<br/> Mode : 16</p> |  <p>Site : 03CH10-14Y<br/> Condition : PEAK_74 3m HORN_9170_40G_0584 VERTICAL<br/> Detector : Peak<br/> Project : 740120<br/> Mode : 16</p> |

| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH06 2437MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                           |
| 1+2          | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                  |
| Peak<br>Avg. |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p> |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 17</p> |
|              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |



| WIFI         | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                        |                                                                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT          | 802.11n HT40 CH09 2452MHz                                                                                                                                                                                                  |                                                                                                                                                                                                                           |
| 1+2          | Horizontal                                                                                                                                                                                                                 | Vertical                                                                                                                                                                                                                  |
| Peak<br>Avg. |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 18</p> |  <p>Site : 03CH10-11Y<br/>Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL<br/>Detector : Peak<br/>Project : 740120<br/>Mode : 18</p> |
|              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |

**Emission below 1GHz**
**2.4GHz WIFI 802.11n HT40 (LF)**

| WIFI                 | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                   |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANT                  | 802.11n HT40 LF                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                   |
| 1+2                  | Horizontal                                                                                                                                                                                                                                                                         | Vertical                                                                                                                                                                                                                                                                          |
| <b>QP /<br/>Peak</b> |  <p>           Site : 03CH10-14V<br/>           Condition : QP 3m BE-LOG 6111D-LF HORIZONTAL<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 21         </p> |  <p>           Site : 03CH10-14V<br/>           Condition : QP 3m BE-LOG 6111D-LF VERTICAL<br/>           Detector : Peak<br/>           Project : 740120<br/>           Mode : 21         </p> |
|                      |                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                   |

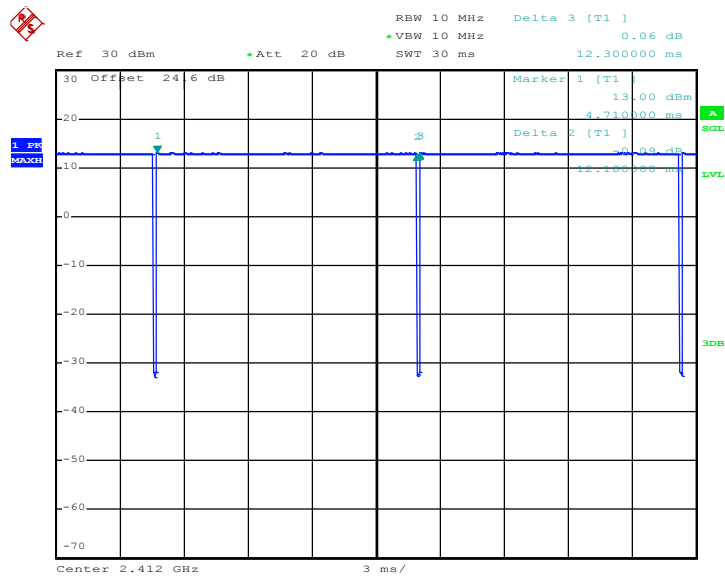
## Appendix E. Duty Cycle Plots

| Antenna | Band                            | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------|---------------------------------|---------------|-------|----------|-------------|
| 1       | 802.11b                         | 99.024        | -     | -        | 10Hz        |
| 1       | 802.11g                         | 93.578        | 2040  | 0.49     | 1kHz        |
| 1       | 2.4GHz 802.11n HT20             | 94.4          | 1888  | 0.53     | 1kHz        |
| 1       | 2.4GHz 802.11n HT40             | 89.423        | 930   | 1.08     | 3kHz        |
| 1       | 2.4GHz 802.11n VHT20            | 94.059        | 1900  | 0.53     | 1kHz        |
| 1       | 2.4GHz 802.11n VHT40            | 87.85         | 940   | 1.06     | 3kHz        |
| 2       | 802.11b                         | 98.701        | -     | -        | 10Hz        |
| 2       | 802.11g                         | 94.393        | 2020  | 0.50     | 1kHz        |
| 2       | 2.4GHz 802.11n HT20             | 93.651        | 1888  | 0.53     | 1kHz        |
| 2       | 2.4GHz 802.11n HT40             | 87.736        | 930   | 1.08     | 3kHz        |
| 2       | 2.4GHz 802.11n VHT20            | 93.137        | 1900  | 0.53     | 1kHz        |
| 2       | 2.4GHz 802.11n VHT40            | 87.736        | 930   | 1.08     | 3kHz        |
| 1+2     | 802.11b for Ant. 1              | 98.544        | -     | -        | 10Hz        |
| 1+2     | 802.11b for Ant. 2              | 99.024        | -     | -        | 10Hz        |
| 1+2     | 802.11g for Ant. 1              | 94.393        | 2020  | 0.50     | 1kHz        |
| 1+2     | 802.11g for Ant. 2              | 94.44         | 2040  | 0.49     | 1kHz        |
| 1+2     | 2.4GHz 802.11n HT20 for Ant. 1  | 94.4          | 1888  | 0.53     | 1kHz        |
| 1+2     | 2.4GHz 802.11n HT20 for Ant. 2  | 94.4          | 1888  | 0.53     | 1kHz        |
| 1+2     | 2.4GHz 802.11n HT40 for Ant. 1  | 87.736        | 930   | 1.08     | 3kHz        |
| 1+2     | 2.4GHz 802.11n HT40 for Ant. 2  | 87.736        | 930   | 1.08     | 3kHz        |
| 1+2     | 2.4GHz 802.11n VHT20 for Ant. 1 | 93.069        | 1880  | 0.53     | 1kHz        |
| 1+2     | 2.4GHz 802.11n VHT20 for Ant. 2 | 93.137        | 1900  | 0.53     | 1kHz        |
| 1+2     | 2.4GHz 802.11n VHT40 for Ant. 1 | 88.571        | 930   | 1.08     | 3kHz        |
| 1+2     | 2.4GHz 802.11n VHT40 for Ant. 2 | 86.916        | 930   | 1.08     | 3kHz        |



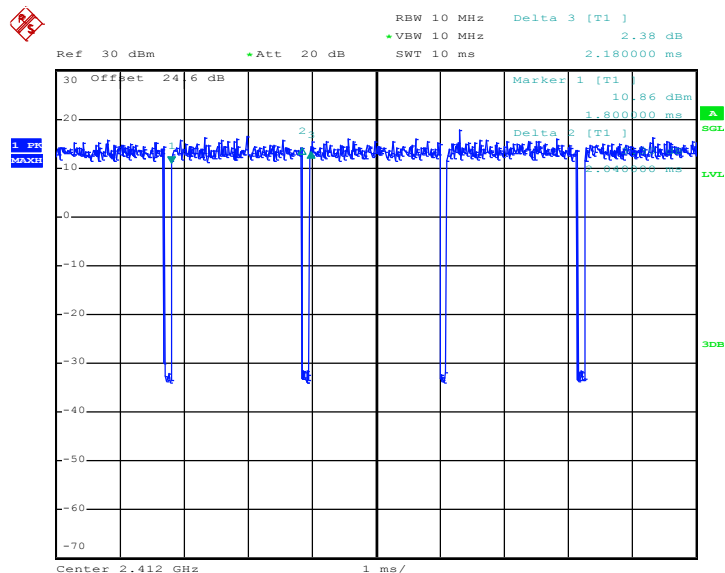
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802.11b



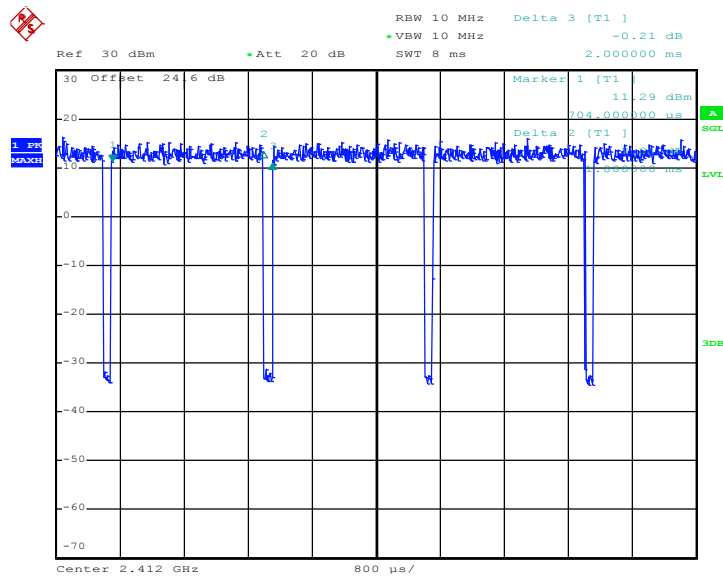
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802.11g



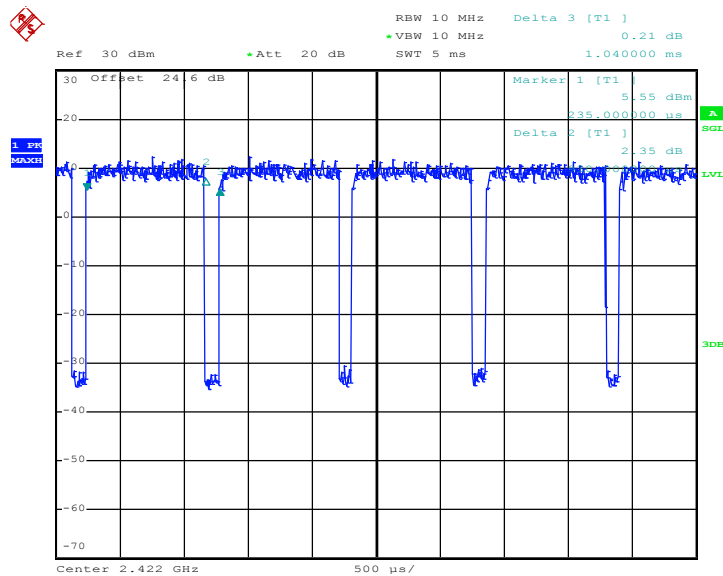
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## 802.11n HT20

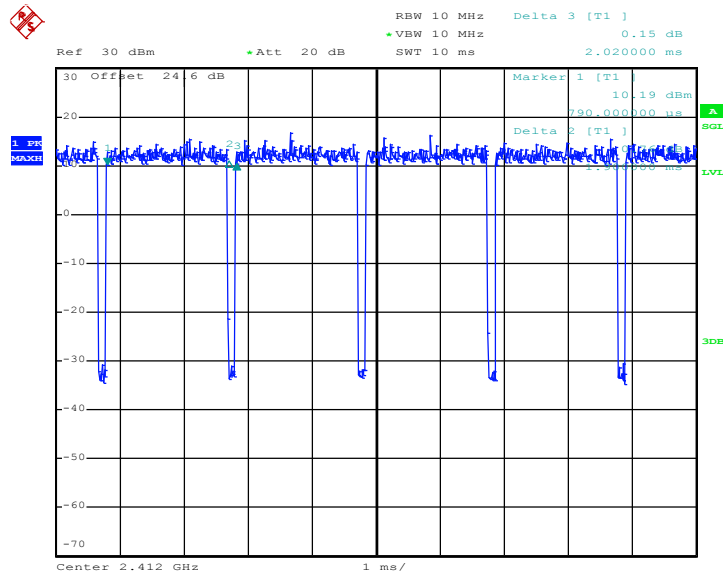


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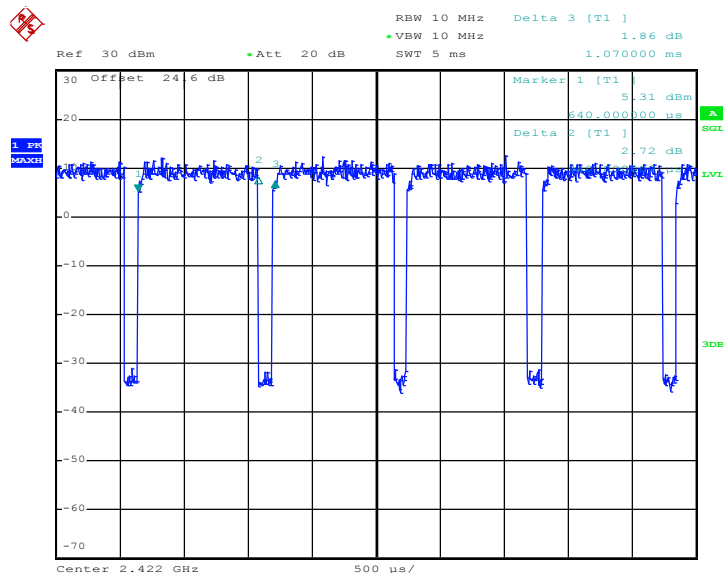
## 802.11n HT40



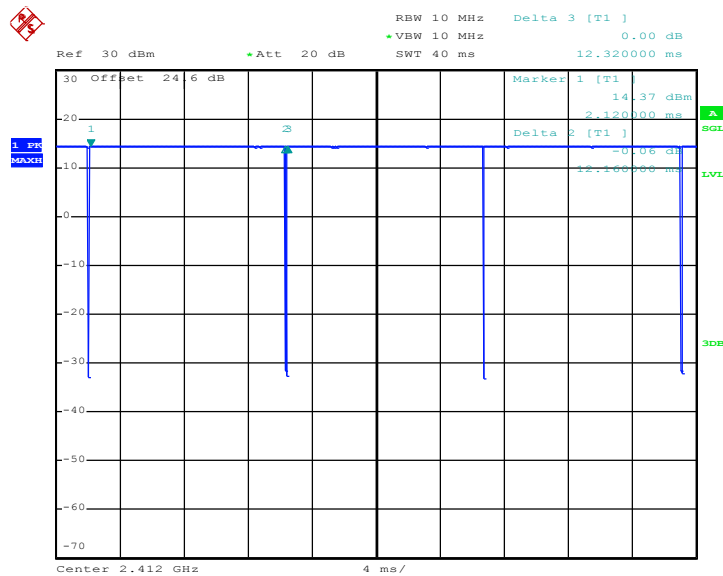
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**802.11ac VHT20**


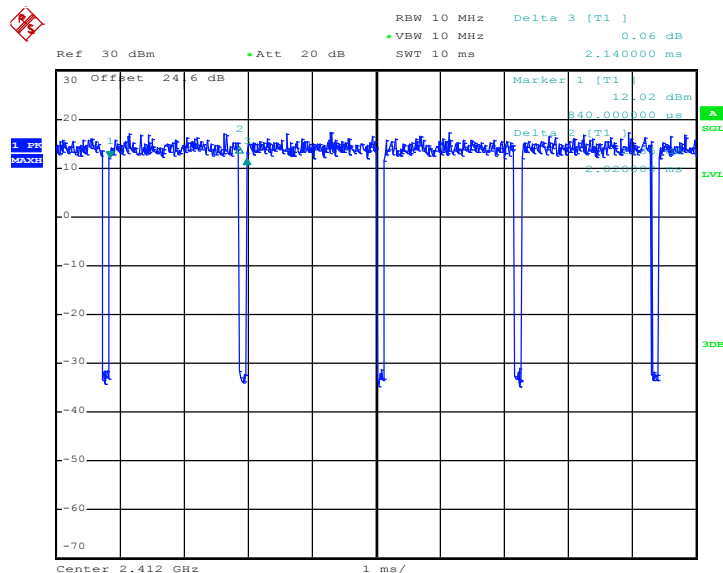
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**802.11ac VHT40**


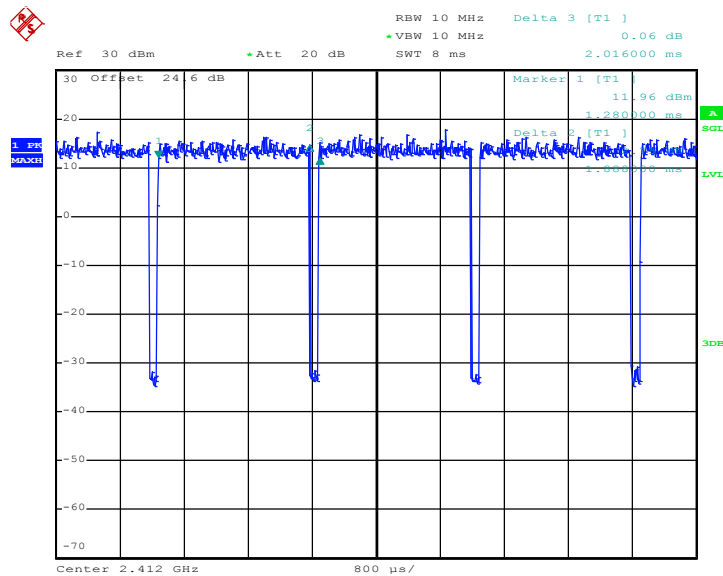
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**SISO <Ant. 2>**
**802.11b**


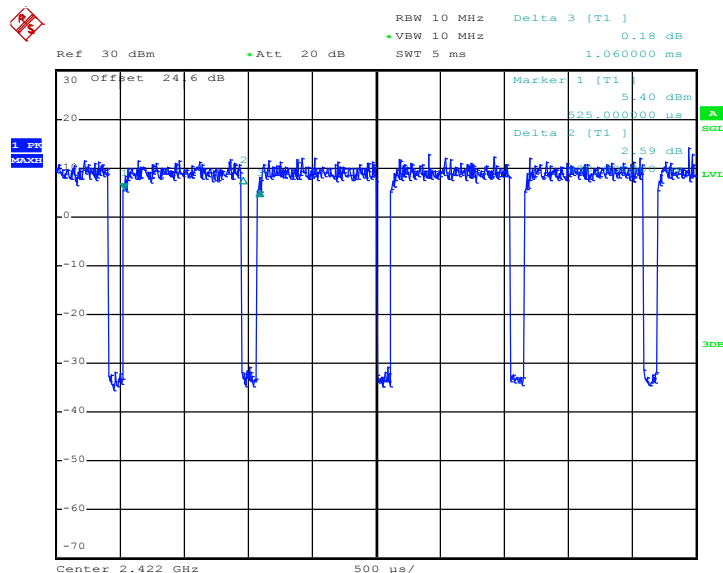
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**802.11g**


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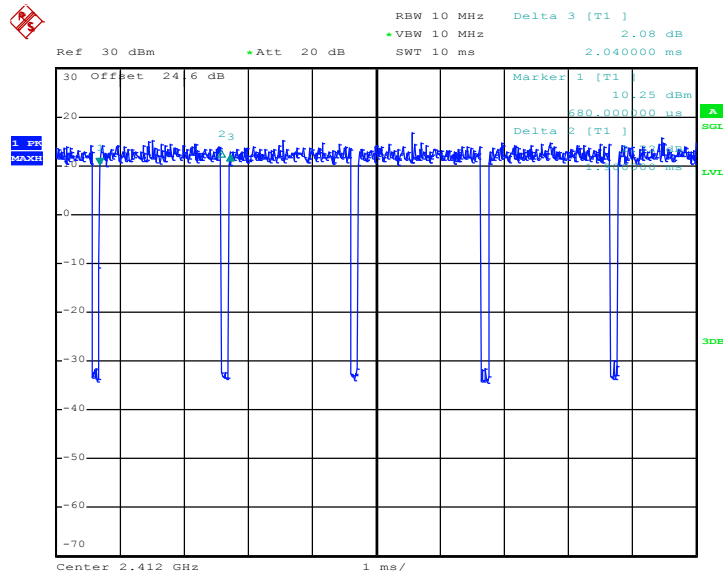
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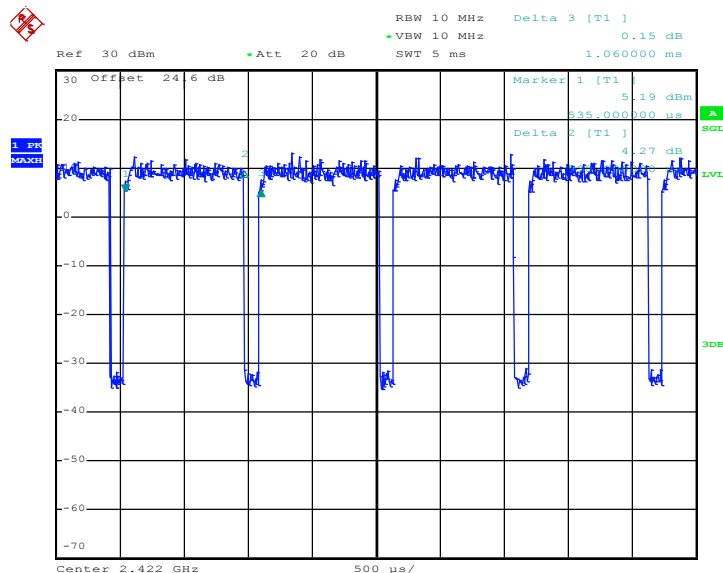
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Date: 15.APR.2017 00:31:51



**802.11ac VHT20**


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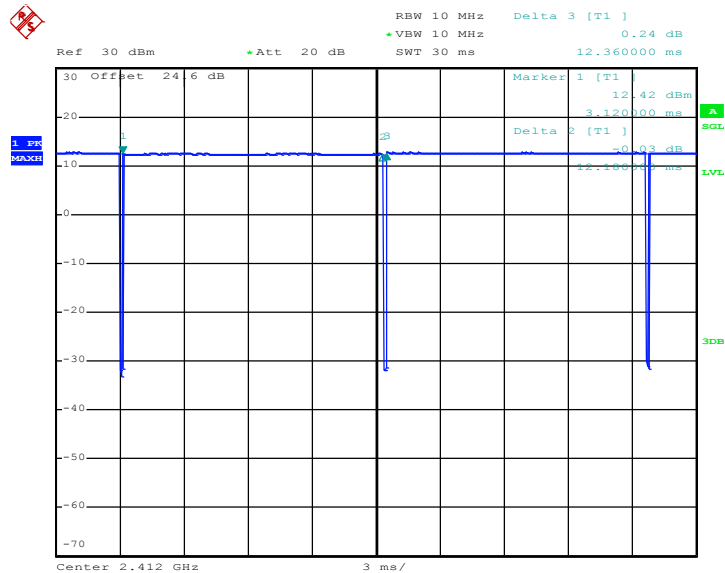
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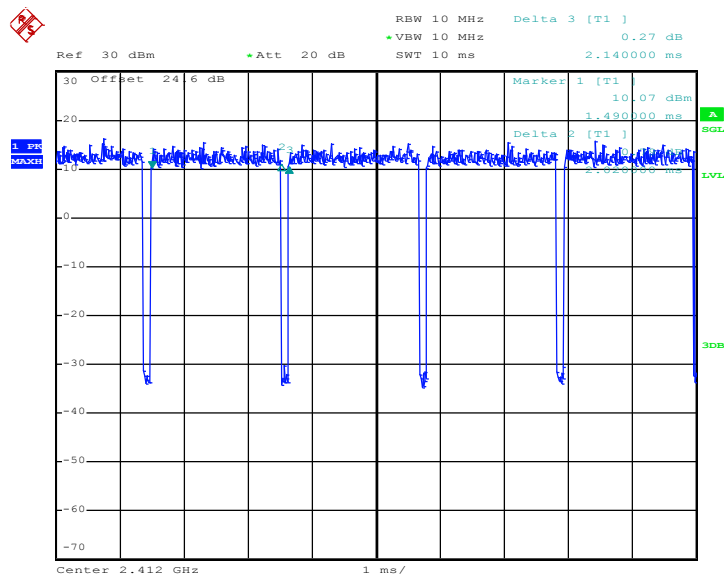
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### 802.11b

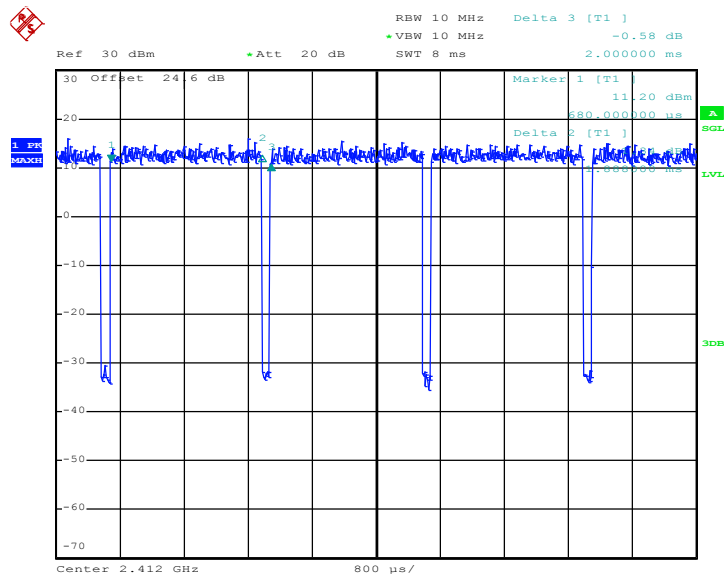


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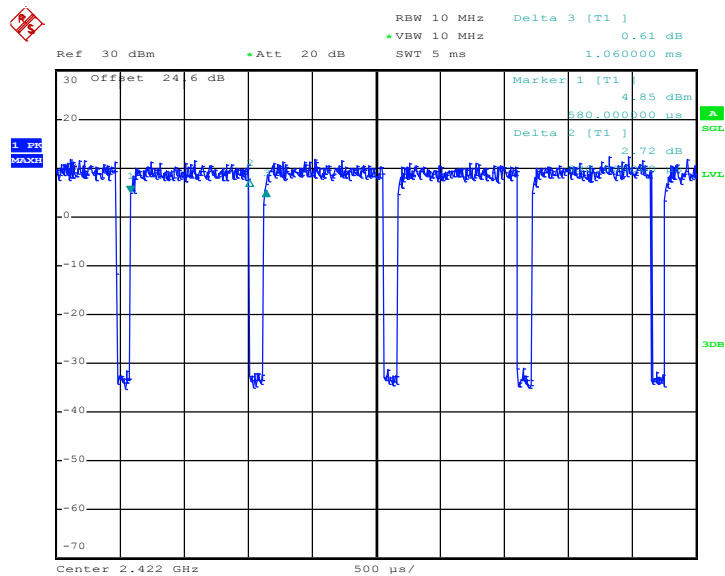
### 802.11g



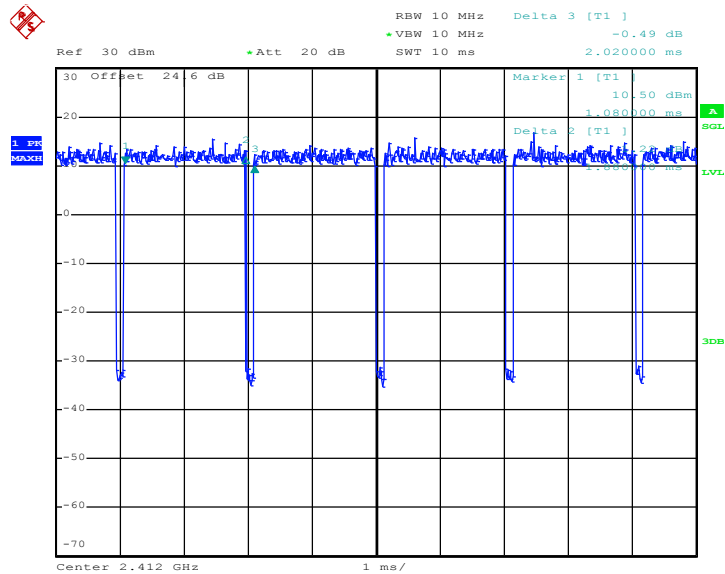
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**802.11n HT20**


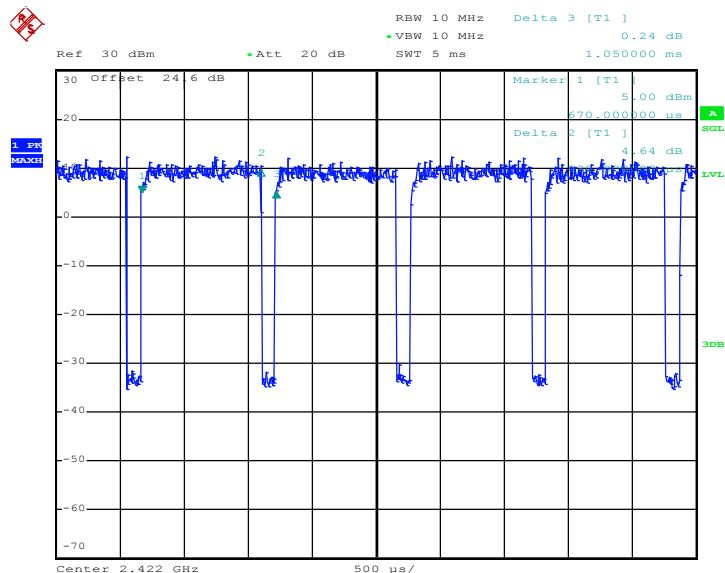
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**802.11n HT40**


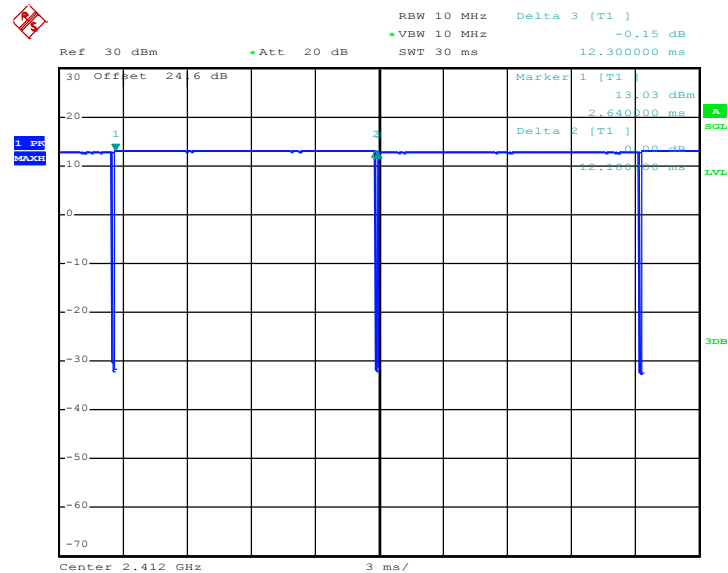
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**802.11ac VHT20**


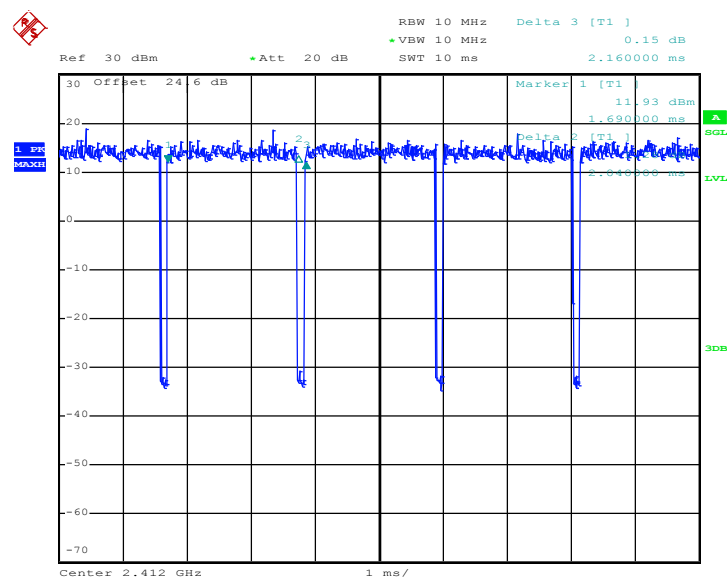
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**802.11ac VHT40**


Date: 15.APR.2017 00:39:24

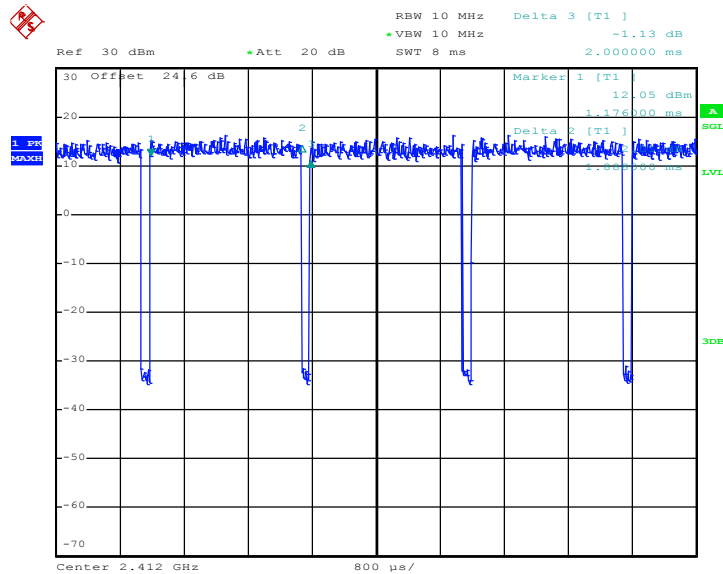
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**802.11b**


Date: 14.APR.2017 23:30:37

**802.11g**


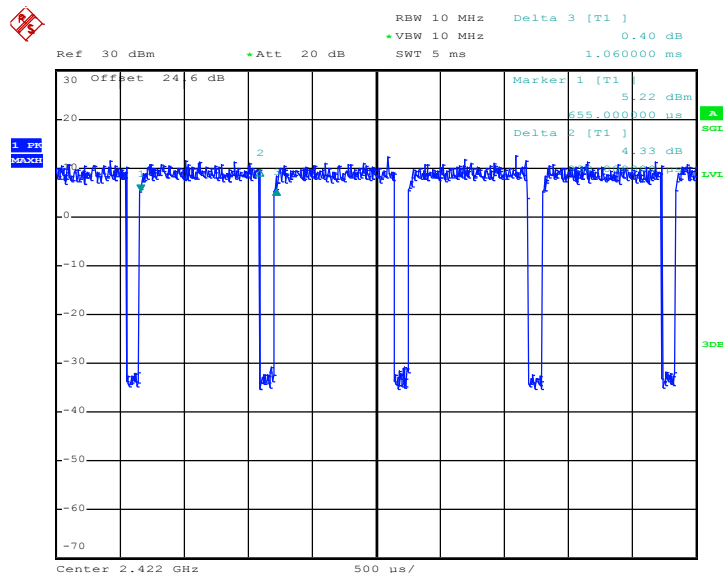
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## 802.11n HT20

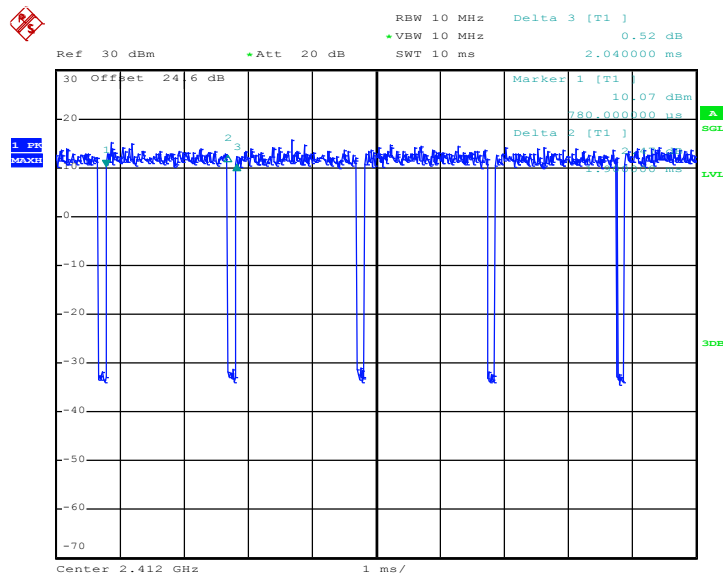


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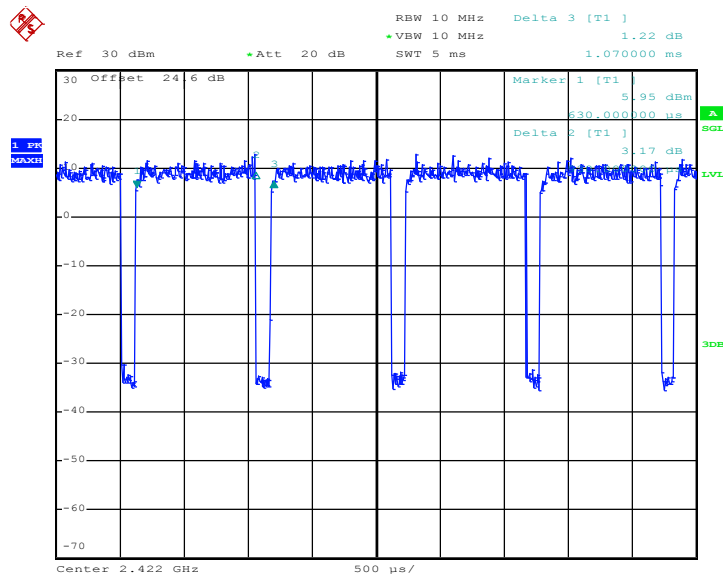
## 802.11n HT40



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**802.11ac VHT20**


Date: 15.APR.2017 00:36:28

**802.11ac VHT40**


Date: 15.APR.2017 00:39:59