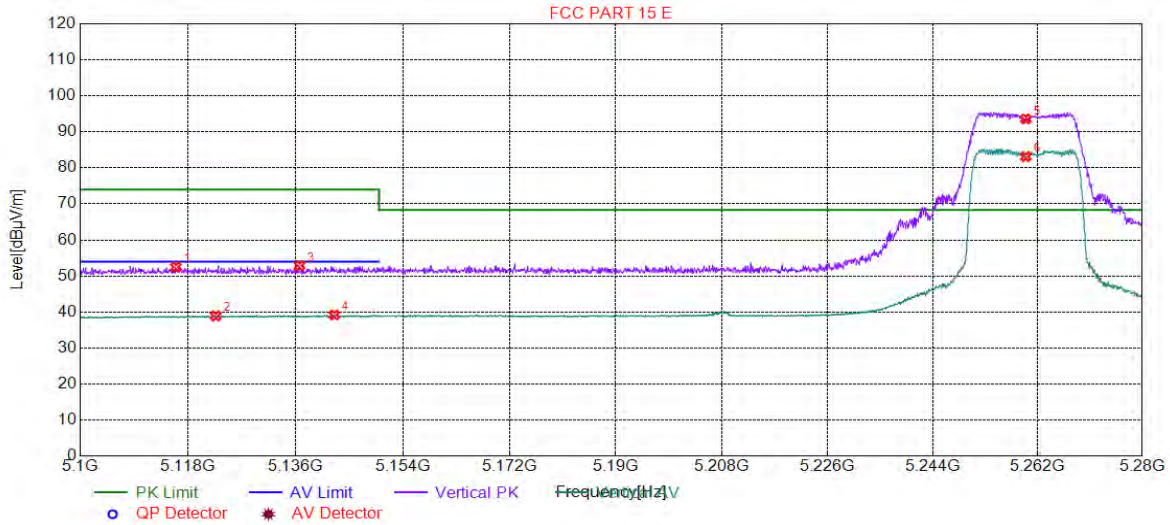




4.10.1.59 11AC20\_52 ANT 1\_Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5115.9380   | 52.48          | 15.23       | 74.00          | 21.52       | 150         | 56        | Vertical |
| 2   | 5122.6013   | 38.92          | 15.28       | 54.00          | 15.08       | 150         | 49        | Vertical |
| 3   | 5136.6483   | 52.86          | 15.41       | 74.00          | 21.14       | 150         | 235       | Vertical |
| 4   | 5142.5013   | 39.18          | 15.46       | 54.00          | 14.82       | 150         | 146       | Vertical |
| 5   | 5260.0000   | 93.60          | 15.51       | 68.30          | -25.30      | 150         | 36        | Vertical |
| 6   | 5260.0000   | 83.13          | 15.51       | 0.00           | -83.13      | 150         | 36        | Vertical |



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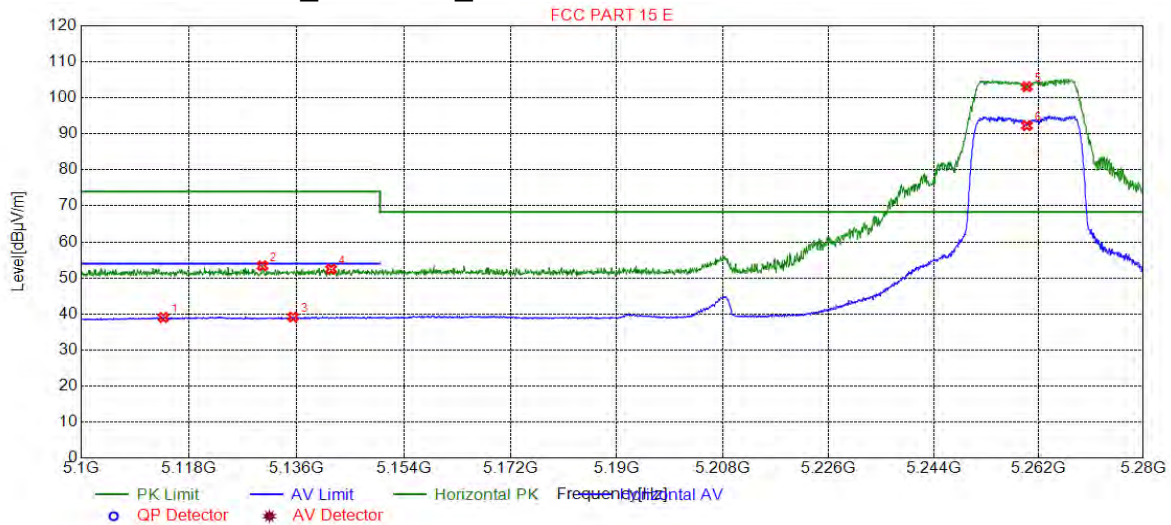
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4.10.1.60 11AC20\_52 ANT 1\_ Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5113.6868   | 39.02          | 15.21       | 54.00          | 14.98       | 150         | 345       | Horizontal |
| 2   | 5130.2551   | 53.39          | 15.35       | 74.00          | 20.61       | 150         | 187       | Horizontal |
| 3   | 5135.3877   | 39.17          | 15.39       | 54.00          | 14.83       | 150         | 152       | Horizontal |
| 4   | 5141.7809   | 52.44          | 15.45       | 74.00          | 21.56       | 150         | 152       | Horizontal |
| 5   | 5260.0000   | 103.08         | 15.51       | 68.30          | -34.78      | 150         | 358       | Horizontal |
| 6   | 5260.0000   | 92.29          | 15.51       | 0.00           | -92.29      | 150         | 352       | Horizontal |



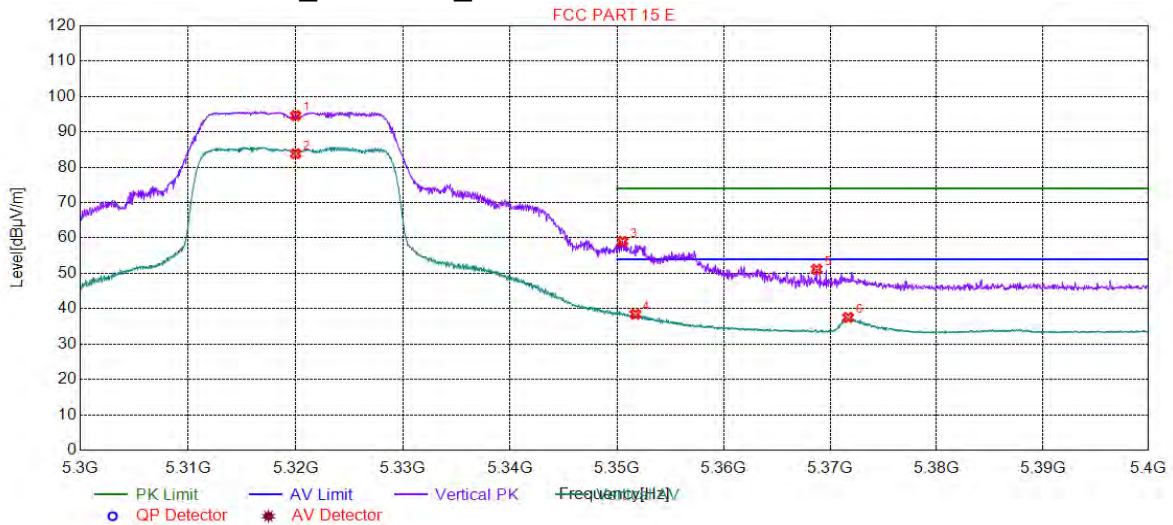
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4.10.1.61 11AC20\_64 ANT 1\_Vertical



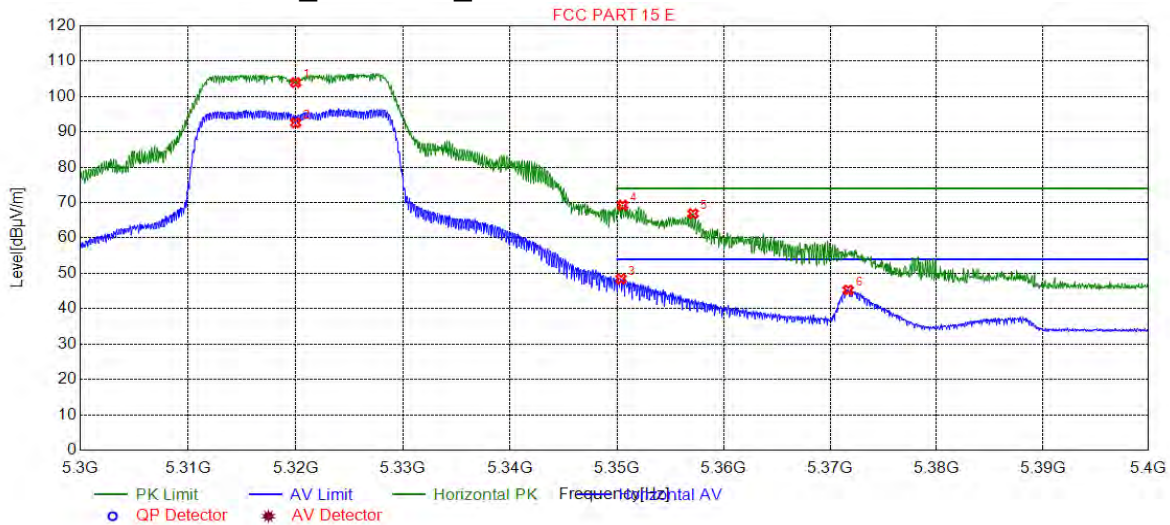
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5320.0000   | 94.59          | 15.80       | 0.00           | -94.59      | 150         | 228       | Vertical |
| 2   | 5320.0000   | 83.84          | 15.80       | 0.00           | -83.84      | 150         | 228       | Vertical |
| 3   | 5350.5253   | 59.05          | 15.94       | 74.00          | 14.95       | 150         | 208       | Vertical |
| 4   | 5351.7259   | 38.45          | 15.95       | 54.00          | 15.55       | 150         | 242       | Vertical |
| 5   | 5368.7344   | 51.16          | 16.06       | 74.00          | 22.84       | 150         | 344       | Vertical |
| 6   | 5371.6858   | 37.54          | 16.07       | 54.00          | 16.46       | 150         | 344       | Vertical |





4.10.1.62 11AC20\_64 ANT 1\_ Horizontal



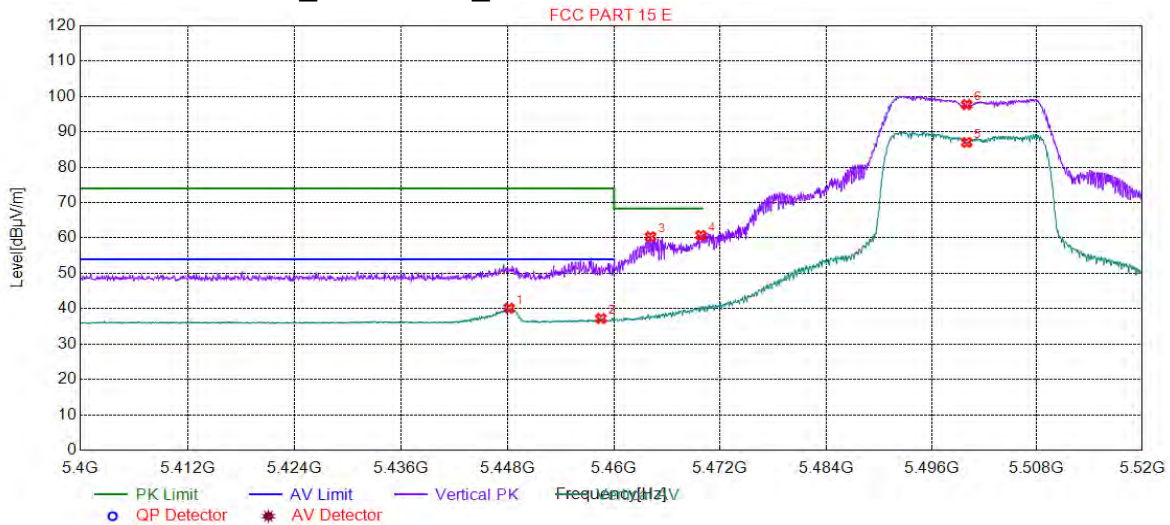
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5320.0000   | 103.92         | 15.80       | 0.00           | -103.92     | 150         | 352       | Horizontal |
| 2   | 5320.0000   | 92.56          | 15.80       | 0.00           | -92.56      | 150         | 70        | Horizontal |
| 3   | 5350.3752   | 48.45          | 15.94       | 54.00          | 5.55        | 150         | 352       | Horizontal |
| 4   | 5350.5253   | 69.26          | 15.94       | 74.00          | 4.74        | 150         | 352       | Horizontal |
| 5   | 5357.1286   | 66.89          | 15.98       | 74.00          | 7.11        | 150         | 352       | Horizontal |
| 6   | 5371.6858   | 45.29          | 16.07       | 54.00          | 8.71        | 150         | 352       | Horizontal |





4.10.1.63 11AC20\_100 ANT 1\_Vertical



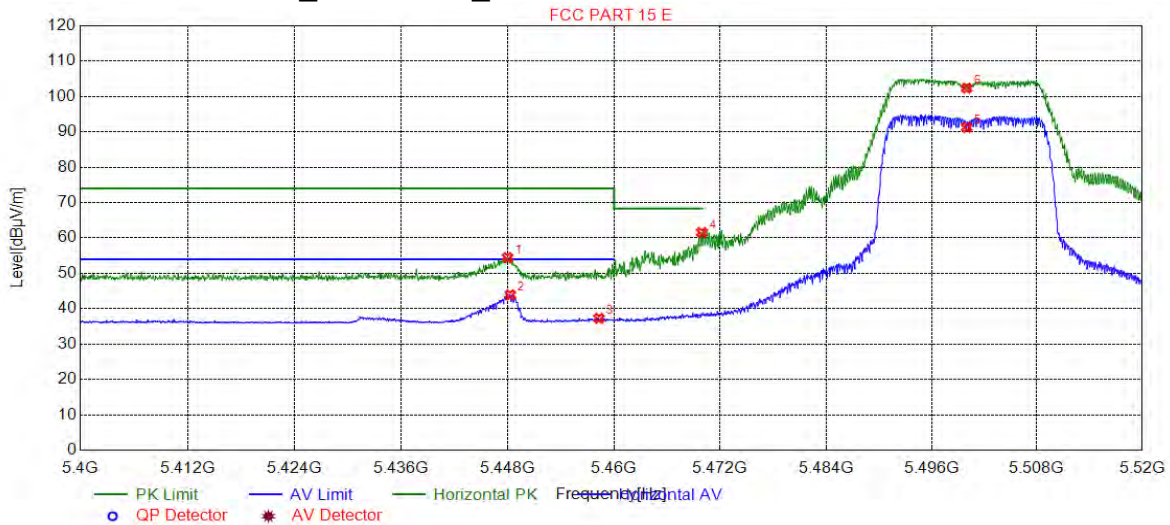
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5448.1441   | 40.12          | 16.25       | 54.00          | 13.88       | 150         | 32        | Vertical |
| 2   | 5458.5293   | 37.24          | 16.25       | 54.00          | 16.76       | 150         | 32        | Vertical |
| 3   | 5464.1121   | 60.36          | 16.25       | 68.30          | 7.94        | 150         | 27        | Vertical |
| 4   | 5469.8149   | 60.75          | 16.25       | 68.30          | 7.55        | 150         | 27        | Vertical |
| 5   | 5500.0000   | 87.02          | 16.25       | 0.00           | -87.02      | 150         | 27        | Vertical |
| 6   | 5500.0000   | 97.71          | 16.25       | 0.00           | -97.71      | 150         | 32        | Vertical |





4.10.1.64 11AC20\_100 ANT 1\_ Horizontal



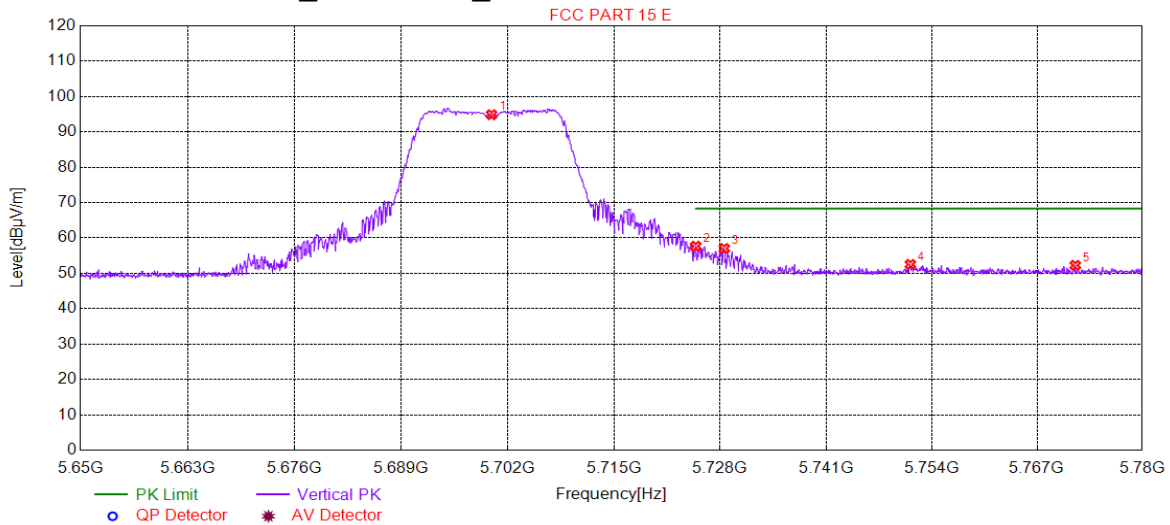
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5447.9640   | 54.46          | 16.25       | 74.00          | 19.54       | 150         | 349       | Horizontal |
| 2   | 5448.2641   | 43.92          | 16.25       | 54.00          | 10.08       | 150         | 349       | Horizontal |
| 3   | 5458.2891   | 37.27          | 16.25       | 54.00          | 16.73       | 150         | 355       | Horizontal |
| 4   | 5469.9350   | 61.54          | 16.25       | 68.30          | 6.76        | 150         | 349       | Horizontal |
| 5   | 5500.0000   | 91.28          | 16.25       | 0.00           | -91.28      | 150         | 355       | Horizontal |
| 6   | 5500.0000   | 102.35         | 16.25       | 0.00           | -102.35     | 150         | 355       | Horizontal |





4.10.1.65 11AC20\_140 ANT 1\_Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5700.0000   | 94.86          | 16.80       | 0.00           | -94.86      | 150         | 344       | Vertical |
| 2   | 5725.0000   | 57.69          | 16.96       | 68.30          | 10.61       | 150         | 344       | Vertical |
| 3   | 5728.4942   | 57.04          | 16.98       | 68.30          | 11.26       | 150         | 344       | Vertical |
| 4   | 5751.3857   | 52.54          | 17.12       | 68.30          | 15.76       | 150         | 344       | Vertical |
| 5   | 5771.7409   | 52.28          | 17.15       | 68.30          | 16.02       | 150         | 344       | Vertical |



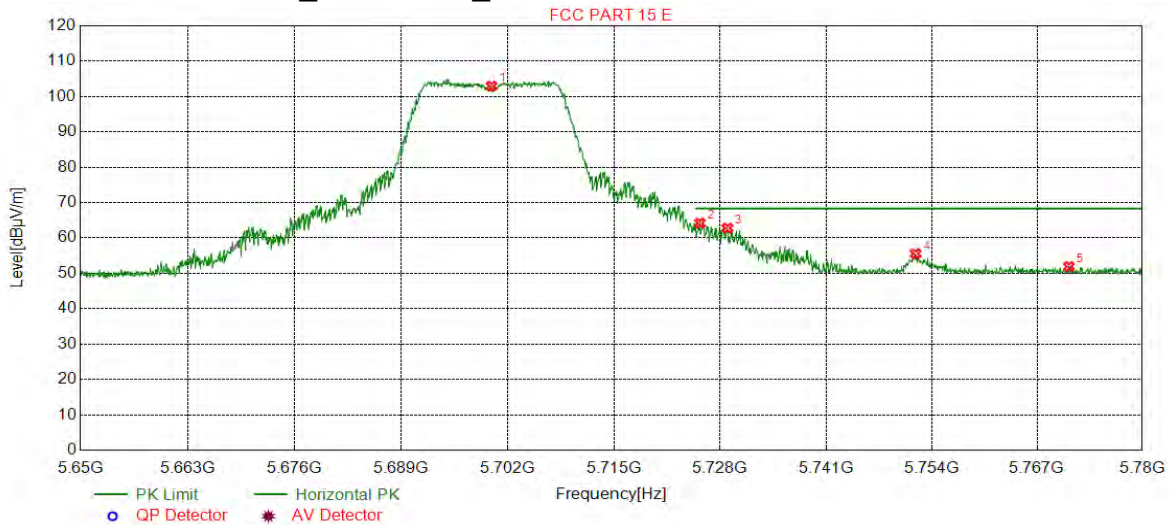
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4.10.1.66 11AC20\_140 ANT 1\_ Horizontal



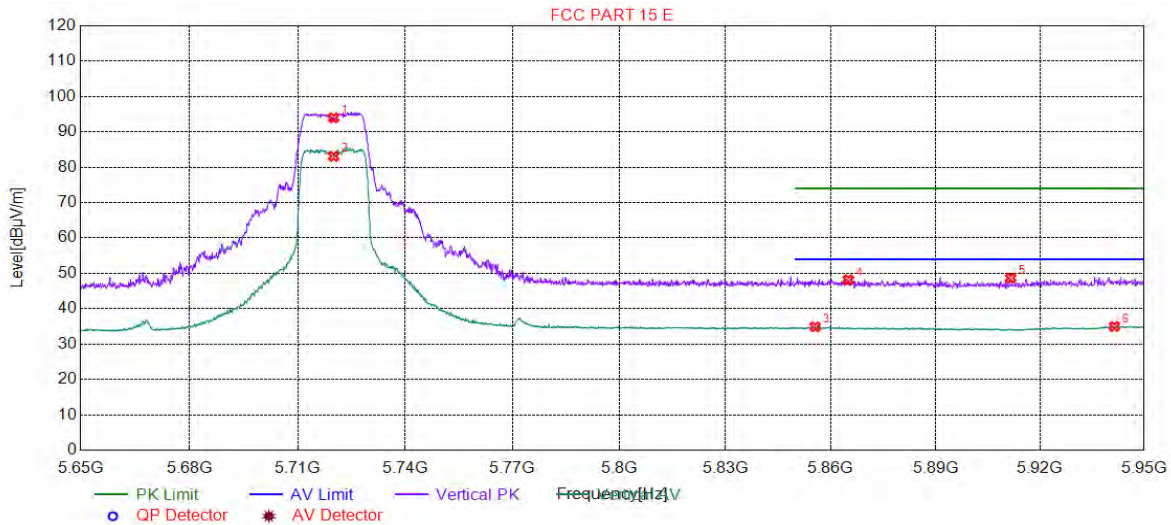
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5700.0000   | 102.97         | 16.80       | 0.00           | -102.97     | 150         | 358       | Horizontal |
| 2   | 5725.5028   | 64.21          | 16.96       | 68.30          | 4.09        | 150         | 358       | Horizontal |
| 3   | 5728.8844   | 62.78          | 16.98       | 68.30          | 5.52        | 150         | 356       | Horizontal |
| 4   | 5752.0360   | 55.56          | 17.12       | 68.30          | 12.74       | 150         | 358       | Horizontal |
| 5   | 5770.9605   | 51.95          | 17.15       | 68.30          | 16.35       | 150         | 310       | Horizontal |





4.10.1.67 11AC20\_144 ANT 1\_Vertical



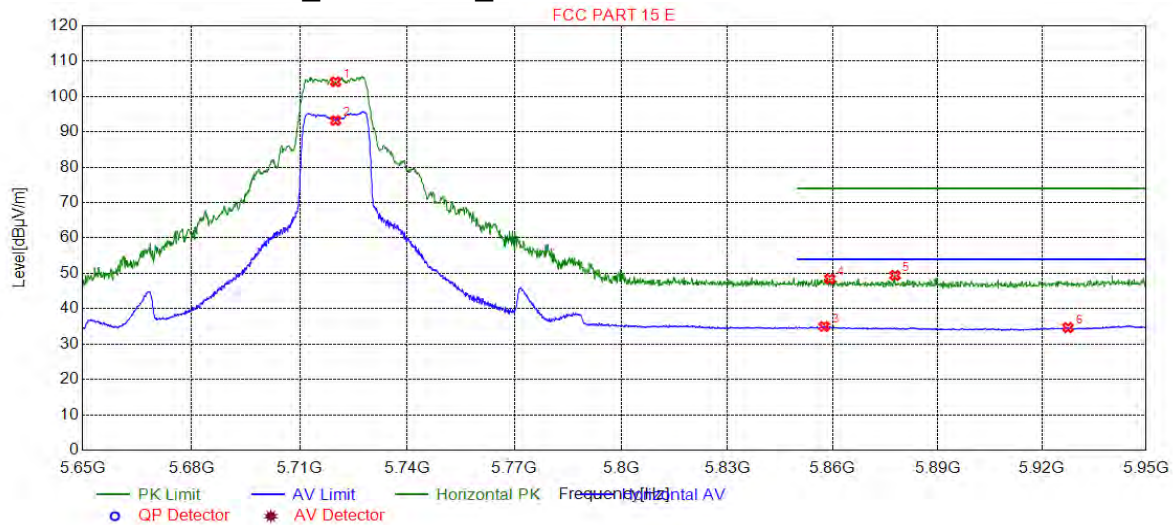
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5720.0000   | 93.98          | 16.93       | 0.00           | -93.98      | 150         | 36        | Vertical |
| 2   | 5720.0000   | 83.08          | 16.93       | 0.00           | -83.08      | 150         | 36        | Vertical |
| 3   | 5855.6028   | 34.90          | 17.24       | 54.00          | 19.10       | 150         | 104       | Vertical |
| 4   | 5865.0575   | 48.18          | 17.21       | 74.00          | 25.82       | 150         | 208       | Vertical |
| 5   | 5911.5808   | 48.70          | 17.29       | 74.00          | 25.30       | 150         | 270       | Vertical |
| 6   | 5941.4457   | 34.99          | 17.75       | 54.00          | 19.01       | 150         | 195       | Vertical |





4.10.1.68 11AC20\_144 ANT 1\_ Horizontal



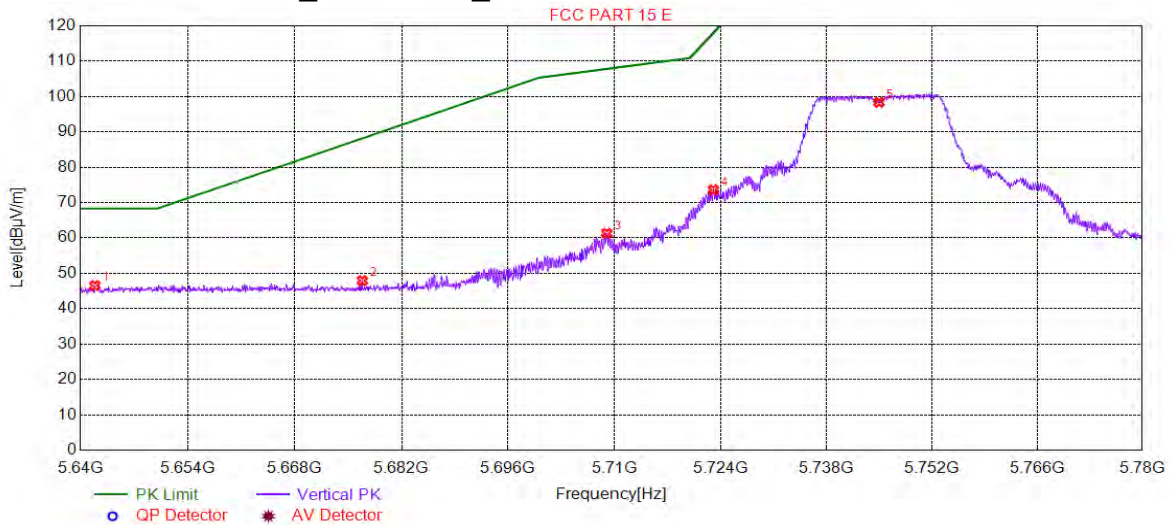
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5720.0000   | 104.16         | 16.93       | 0.00           | -104.16     | 150         | 344       | Horizontal |
| 2   | 5720.0000   | 93.22          | 16.93       | 0.00           | -93.22      | 150         | 344       | Horizontal |
| 3   | 5857.5538   | 34.99          | 17.24       | 54.00          | 19.01       | 150         | 14        | Horizontal |
| 4   | 5859.2046   | 48.43          | 17.23       | 74.00          | 25.57       | 150         | 131       | Horizontal |
| 5   | 5877.8139   | 49.41          | 17.18       | 74.00          | 24.59       | 150         | 344       | Horizontal |
| 6   | 5927.4887   | 34.67          | 17.53       | 54.00          | 19.33       | 150         | 92        | Horizontal |





4.10.1.69 11AC20\_149 ANT 1\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 5641.8909   | 46.56          | 16.54       | 68.30          | 21.74       | 150         | 295       | Vertical |
| 2              | 5676.8384   | 47.94          | 16.67       | 88.16          | 40.22       | 150         | 77        | Vertical |
| 3              | 5708.9845   | 61.35          | 16.86       | 107.82         | 46.47       | 150         | 344       | Vertical |
| 4              | 5723.0615   | 73.62          | 16.95       | 117.88         | 44.26       | 150         | 344       | Vertical |
| 5              | 5745.0000   | 98.37          | 17.09       | 0.00           | -98.37      | 150         | 344       | Vertical |



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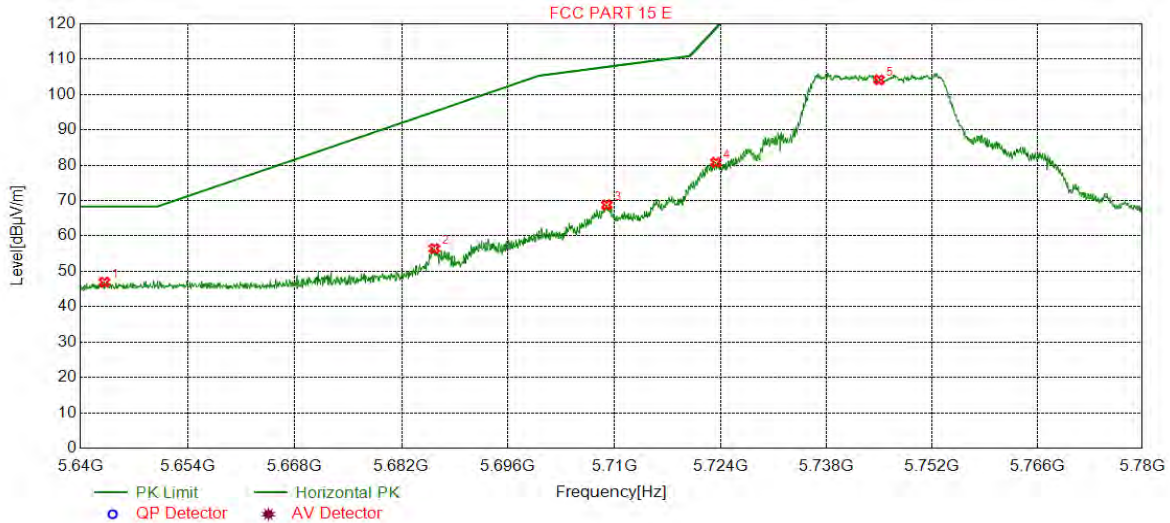
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4.10.1.70 11AC20\_149 ANT 1\_ Horizontal



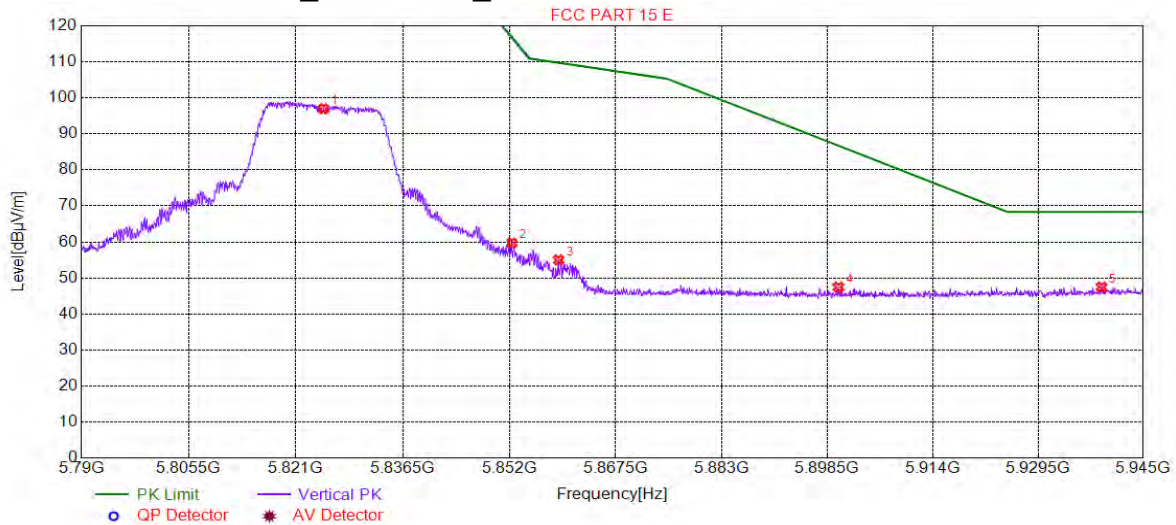
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5643.1516   | 46.96          | 16.54       | 68.30          | 21.34       | 150         | 80        | Horizontal |
| 2   | 5686.2931   | 56.46          | 16.73       | 95.16          | 38.70       | 150         | 359       | Horizontal |
| 3   | 5708.9845   | 68.79          | 16.86       | 107.82         | 39.03       | 150         | 356       | Horizontal |
| 4   | 5723.4117   | 80.80          | 16.95       | 118.68         | 37.88       | 150         | 356       | Horizontal |
| 5   | 5745.0000   | 104.14         | 17.09       | 0.00           | -104.14     | 150         | 352       | Horizontal |





4.10.1.71 11AC20\_165 ANT 1\_Vertical



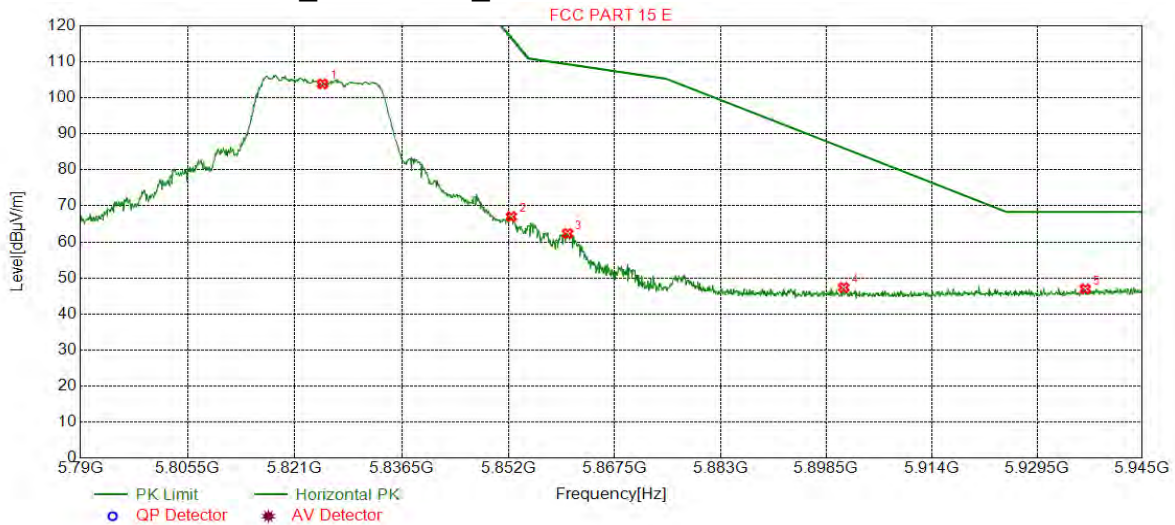
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5825.0000   | 96.99          | 17.23       | 0.00           | -96.99      | 150         | 58        | Vertical |
| 2   | 5852.3412   | 59.71          | 17.25       | 116.96         | 57.25       | 150         | 54        | Vertical |
| 3   | 5859.1646   | 55.02          | 17.23       | 109.73         | 54.71       | 150         | 54        | Vertical |
| 4   | 5900.1051   | 47.45          | 17.11       | 86.72          | 39.27       | 150         | 193       | Vertical |
| 5   | 5938.8744   | 47.49          | 17.71       | 68.30          | 20.81       | 150         | 142       | Vertical |





4.10.1.72 11AC20\_165 ANT 1\_ Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5825.0000   | 103.86         | 17.23       | 0.00           | -103.86     | 150         | 360       | Horizontal |
| 2   | 5852.4187   | 67.02          | 17.25       | 116.79         | 49.77       | 150         | 358       | Horizontal |
| 3   | 5860.6378   | 62.34          | 17.23       | 109.32         | 46.98       | 150         | 360       | Horizontal |
| 4   | 5901.0355   | 47.35          | 17.13       | 86.03          | 38.68       | 150         | 154       | Horizontal |
| 5   | 5936.6258   | 46.95          | 17.67       | 68.30          | 21.35       | 150         | 80        | Horizontal |



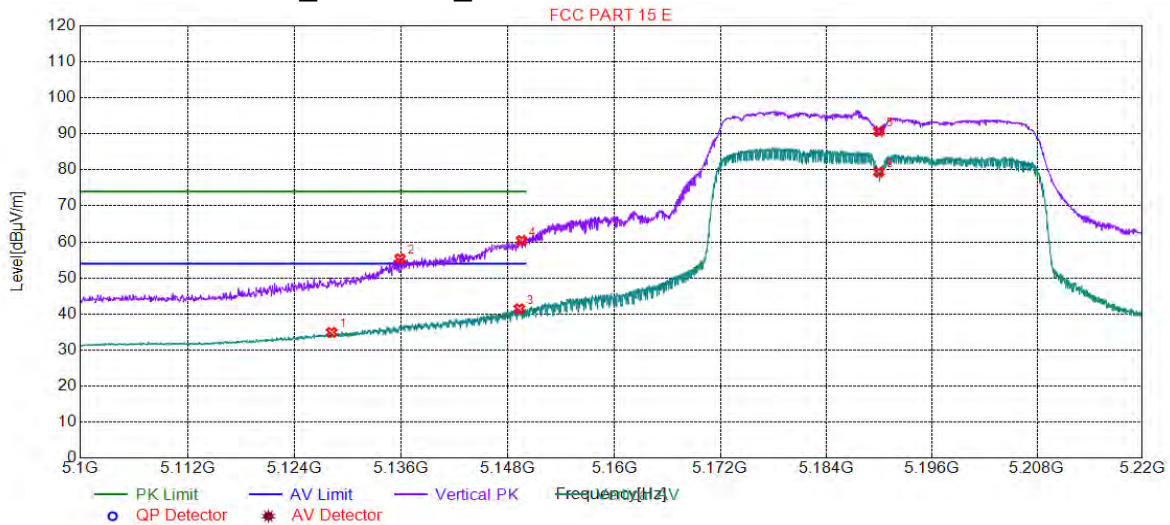
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4.10.1.73 11AC40\_38 ANT 1\_ Vertical



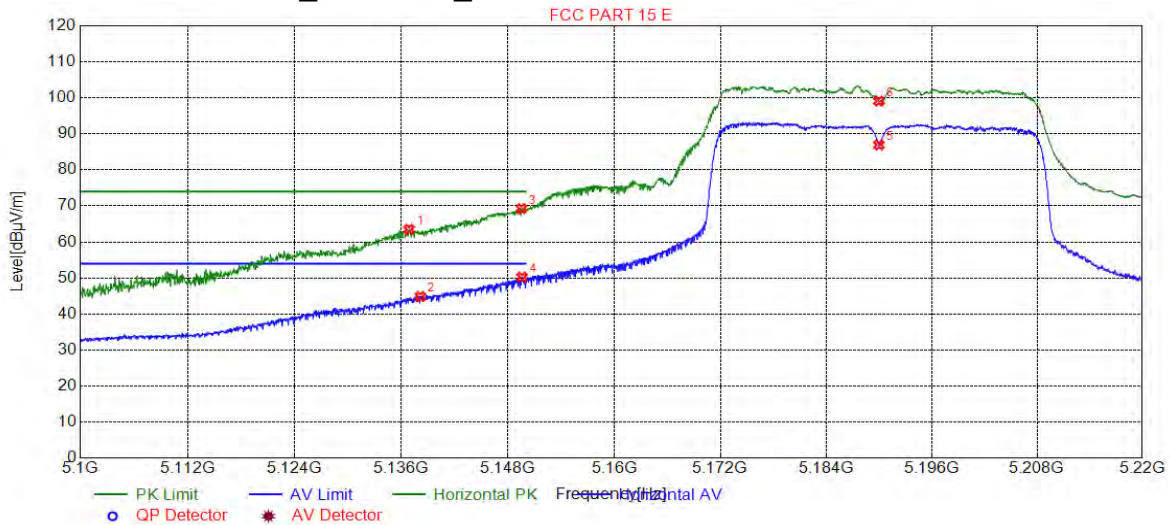
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5128.1541   | 34.90          | 15.33       | 54.00          | 19.10       | 150         | 33        | Vertical |
| 2   | 5135.8379   | 55.35          | 15.40       | 74.00          | 18.65       | 150         | 33        | Vertical |
| 3   | 5149.2846   | 41.45          | 15.51       | 54.00          | 12.55       | 150         | 33        | Vertical |
| 4   | 5149.5248   | 60.41          | 15.52       | 74.00          | 13.59       | 150         | 27        | Vertical |
| 5   | 5190.0000   | 90.70          | 15.58       | 0.00           | -90.70      | 150         | 33        | Vertical |
| 6   | 5190.0000   | 79.42          | 15.58       | 0.00           | -79.42      | 150         | 33        | Vertical |





4.10.1.74 11AC40\_38 ANT 1\_ Horizontal



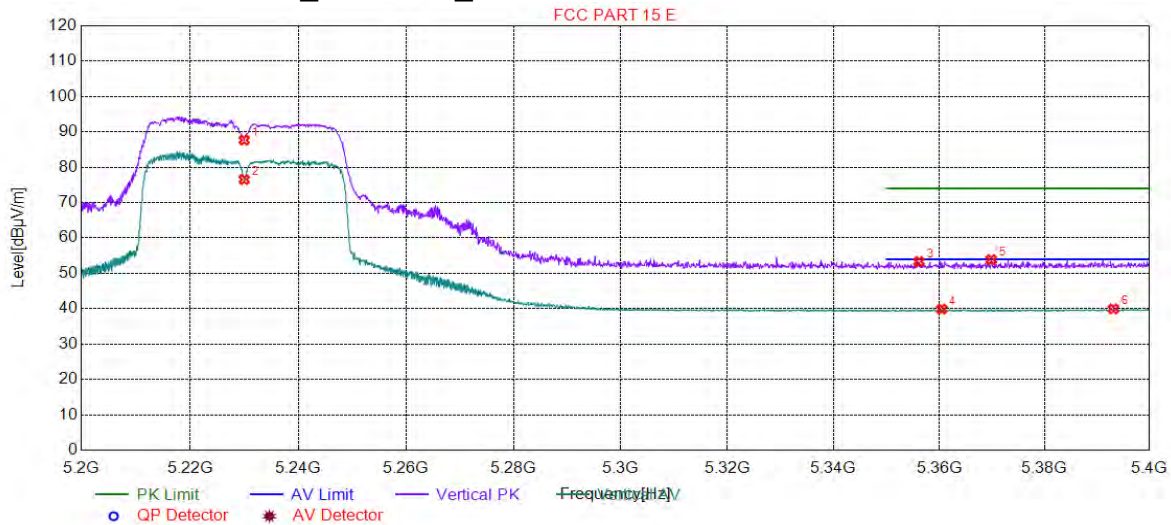
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5136.8584   | 63.49          | 15.41       | 74.00          | 10.51       | 150         | 350       | Horizontal |
| 2   | 5138.1191   | 44.83          | 15.42       | 54.00          | 9.17        | 150         | 14        | Horizontal |
| 3   | 5149.5248   | 69.25          | 15.52       | 74.00          | 4.75        | 150         | 14        | Horizontal |
| 4   | 5149.5848   | 50.25          | 15.52       | 54.00          | 3.75        | 150         | 14        | Horizontal |
| 5   | 5190.0000   | 86.92          | 15.58       | 0.00           | -86.92      | 150         | 344       | Horizontal |
| 6   | 5190.0000   | 99.11          | 15.58       | 0.00           | -99.11      | 150         | 74        | Horizontal |





4.10.1.75 11AC40\_46 ANT 1\_ Vertical



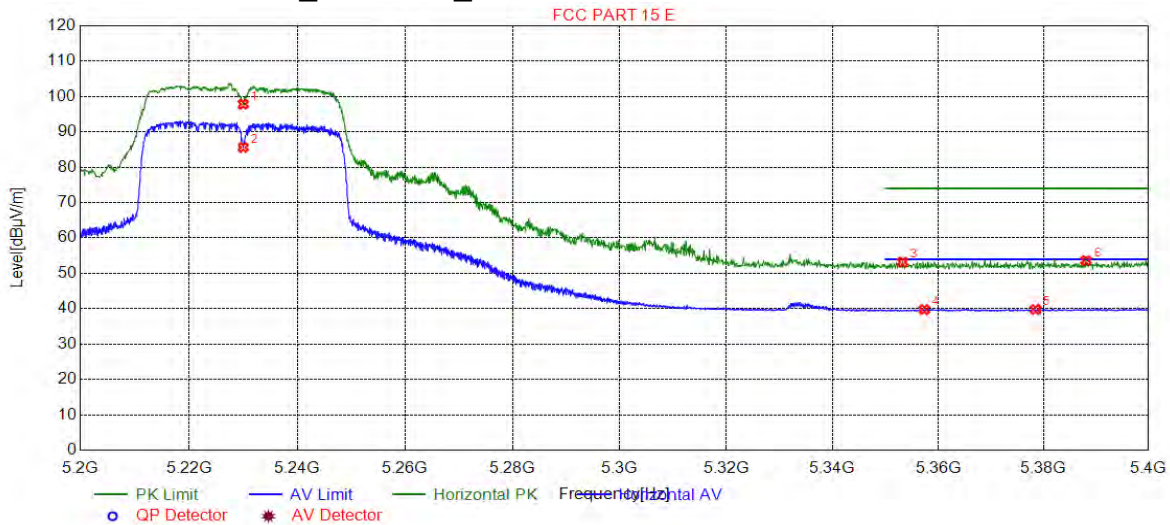
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5230.0000   | 87.68          | 15.51       | 0.00           | -87.68      | 150         | 28        | Vertical |
| 2   | 5230.0000   | 76.53          | 15.51       | 0.00           | -76.53      | 150         | 241       | Vertical |
| 3   | 5356.1781   | 53.32          | 15.98       | 74.00          | 20.68       | 150         | 255       | Vertical |
| 4   | 5360.4802   | 39.88          | 16.00       | 54.00          | 14.12       | 150         | 234       | Vertical |
| 5   | 5369.8849   | 53.87          | 16.06       | 74.00          | 20.13       | 150         | 248       | Vertical |
| 6   | 5393.0965   | 39.95          | 16.21       | 54.00          | 14.05       | 150         | 192       | Vertical |





4.10.1.76 11AC40\_46 ANT 1\_ Horizontal



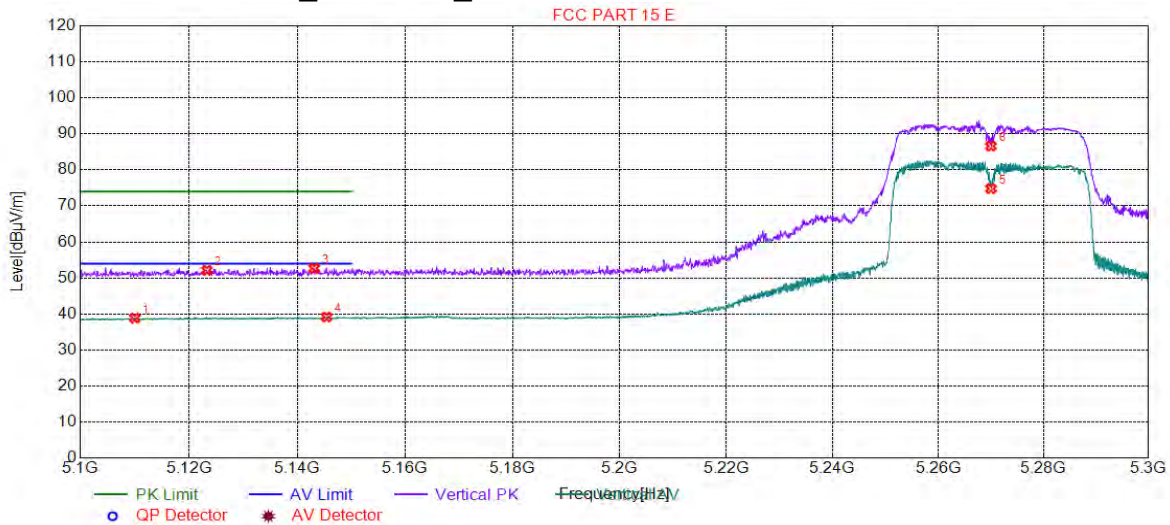
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5230.0000   | 97.84          | 15.51       | 0.00           | -97.84      | 150         | 77        | Horizontal |
| 2   | 5230.0000   | 85.61          | 15.51       | 0.00           | -85.61      | 150         | 346       | Horizontal |
| 3   | 5353.2766   | 53.18          | 15.96       | 74.00          | 20.82       | 150         | 160       | Horizontal |
| 4   | 5357.3787   | 39.74          | 15.99       | 54.00          | 14.26       | 150         | 353       | Horizontal |
| 5   | 5378.4892   | 39.78          | 16.12       | 54.00          | 14.22       | 150         | 125       | Horizontal |
| 6   | 5388.0940   | 53.61          | 16.18       | 74.00          | 20.39       | 150         | 283       | Horizontal |





4.10.1.77 11AC40\_54 ANT 1\_ Vertical



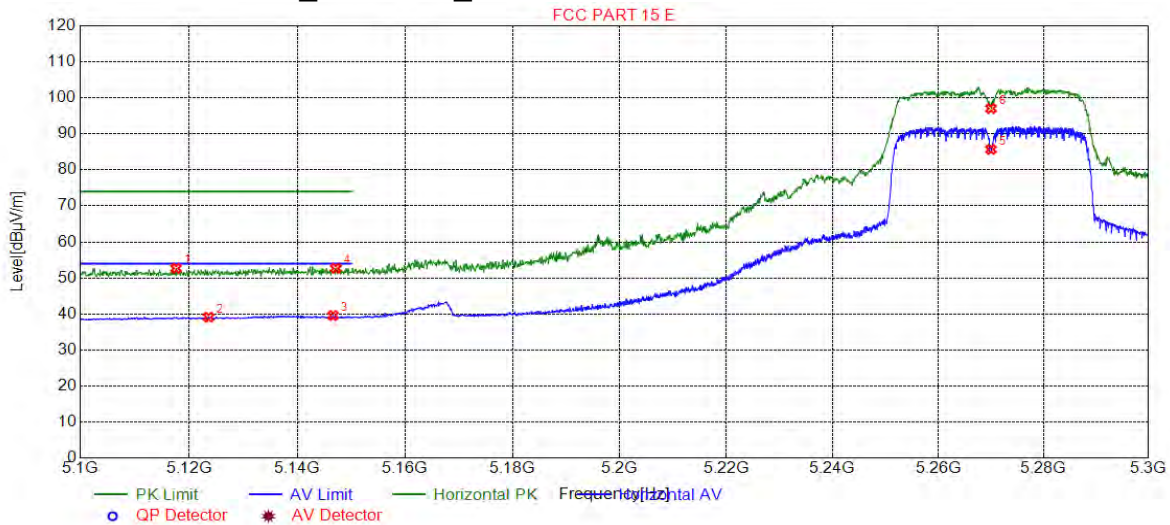
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5110.0050   | 38.87          | 15.18       | 54.00          | 15.13       | 150         | 188       | Vertical |
| 2   | 5123.3117   | 52.13          | 15.29       | 74.00          | 21.87       | 150         | 209       | Vertical |
| 3   | 5143.1216   | 52.68          | 15.46       | 74.00          | 21.32       | 150         | 105       | Vertical |
| 4   | 5145.4227   | 39.17          | 15.48       | 54.00          | 14.83       | 150         | 78        | Vertical |
| 5   | 5270.0000   | 74.81          | 15.56       | 0.00           | -74.81      | 150         | 229       | Vertical |
| 6   | 5270.0000   | 86.60          | 15.56       | 0.00           | -86.60      | 150         | 222       | Vertical |





4.10.1.78 11AC40\_54 ANT 1\_ Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5117.6088   | 52.67          | 15.24       | 74.00          | 21.33       | 150         | 188       | Horizontal |
| 2   | 5123.6118   | 39.11          | 15.29       | 54.00          | 14.89       | 150         | 57        | Horizontal |
| 3   | 5146.6233   | 39.58          | 15.49       | 54.00          | 14.42       | 150         | 346       | Horizontal |
| 4   | 5147.1236   | 52.69          | 15.50       | 74.00          | 21.31       | 150         | 360       | Horizontal |
| 5   | 5270.0000   | 85.69          | 15.56       | 0.00           | -85.69      | 150         | 71        | Horizontal |
| 6   | 5270.0000   | 97.05          | 15.56       | 0.00           | -97.05      | 150         | 71        | Horizontal |



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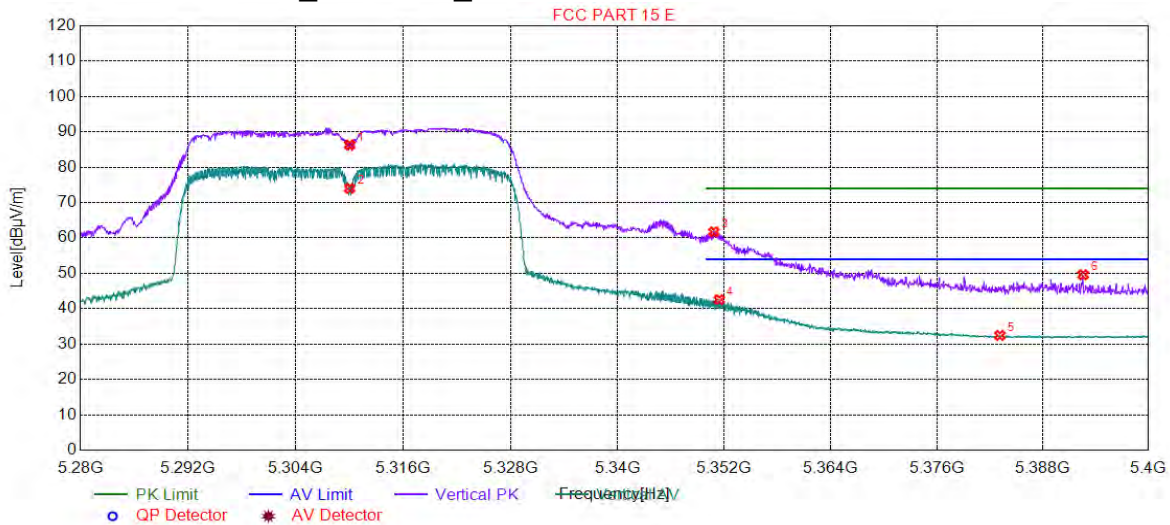
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4.10.1.79 11AC40\_62 ANT 1\_ Vertical



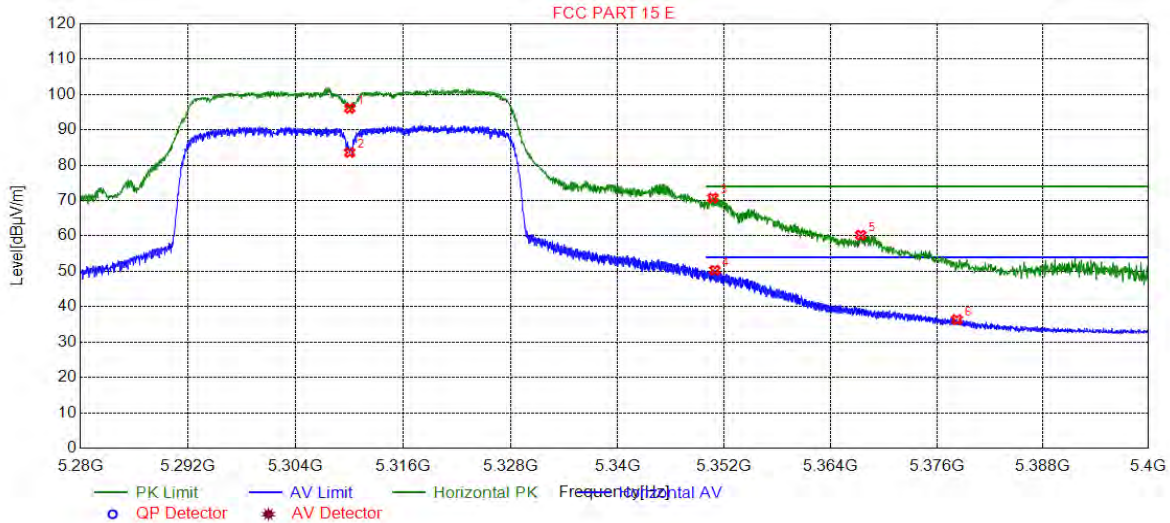
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5310.0000   | 86.30          | 15.75       | 0.00           | -86.30      | 150         | 227       | Vertical |
| 2   | 5310.0000   | 74.02          | 15.75       | 0.00           | -74.02      | 150         | 227       | Vertical |
| 3   | 5350.8354   | 61.76          | 15.95       | 74.00          | 12.24       | 150         | 206       | Vertical |
| 4   | 5351.4357   | 42.56          | 15.95       | 54.00          | 11.44       | 150         | 206       | Vertical |
| 5   | 5383.1316   | 32.44          | 16.15       | 54.00          | 21.56       | 150         | 32        | Vertical |
| 6   | 5392.5563   | 49.60          | 16.20       | 74.00          | 24.40       | 150         | 32        | Vertical |





4.10.1.80 11AC40\_62 ANT 1\_ Horizontal



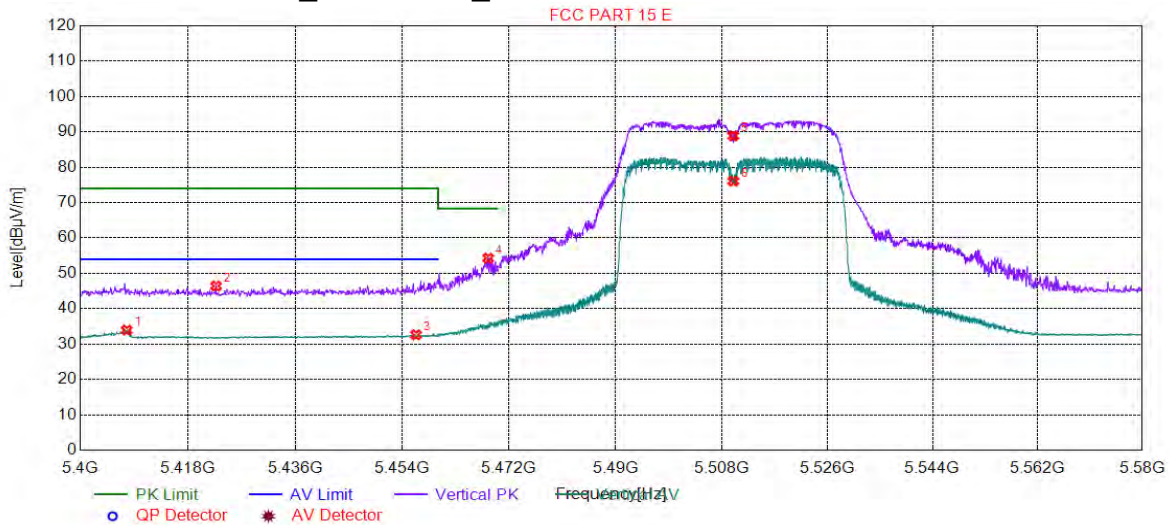
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5310.0000   | 96.10          | 15.75       | 0.00           | -96.10      | 150         | 354       | Horizontal |
| 2   | 5310.0000   | 83.60          | 15.75       | 0.00           | -83.60      | 150         | 354       | Horizontal |
| 3   | 5350.7154   | 70.73          | 15.94       | 74.00          | 3.27        | 150         | 354       | Horizontal |
| 4   | 5350.9555   | 50.31          | 15.95       | 54.00          | 3.69        | 150         | 354       | Horizontal |
| 5   | 5367.4037   | 60.25          | 16.05       | 74.00          | 13.75       | 150         | 354       | Horizontal |
| 6   | 5378.2691   | 36.34          | 16.12       | 54.00          | 17.66       | 150         | 348       | Horizontal |





4.10.1.81 11AC40\_102 ANT 1\_ Vertical



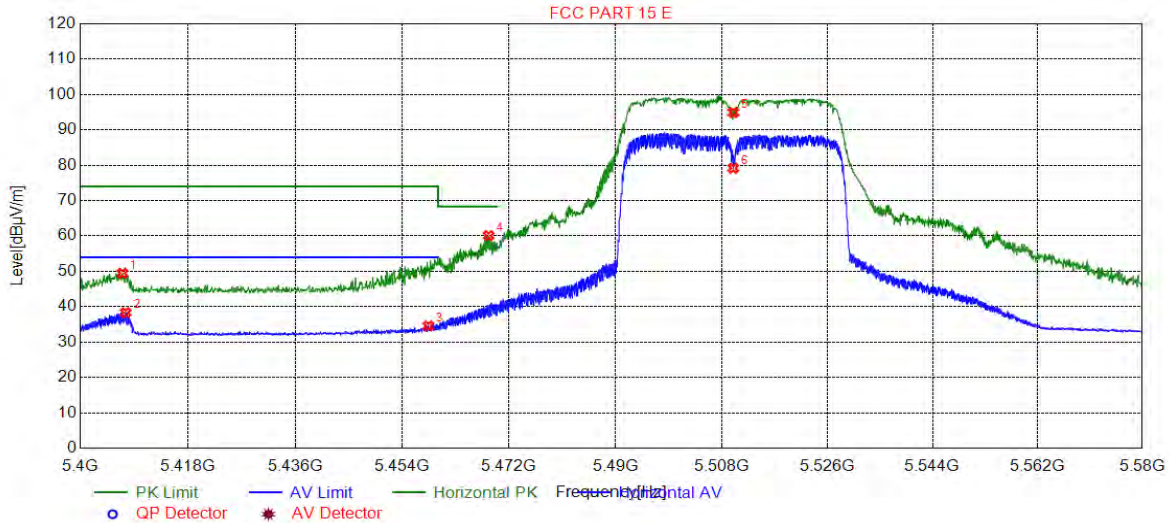
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5407.7439   | 33.95          | 16.25       | 54.00          | 20.05       | 150         | 28        | Vertical |
| 2   | 5422.6913   | 46.41          | 16.25       | 74.00          | 27.59       | 150         | 344       | Vertical |
| 3   | 5456.2781   | 32.63          | 16.25       | 54.00          | 21.37       | 150         | 344       | Vertical |
| 4   | 5468.4342   | 54.29          | 16.25       | 68.30          | 14.01       | 150         | 28        | Vertical |
| 5   | 5510.0000   | 88.90          | 16.28       | 0.00           | -88.90      | 150         | 28        | Vertical |
| 6   | 5510.0000   | 76.09          | 16.28       | 0.00           | -76.09      | 150         | 28        | Vertical |





4.10.1.82 11AC40\_102 ANT 1\_ Horizontal



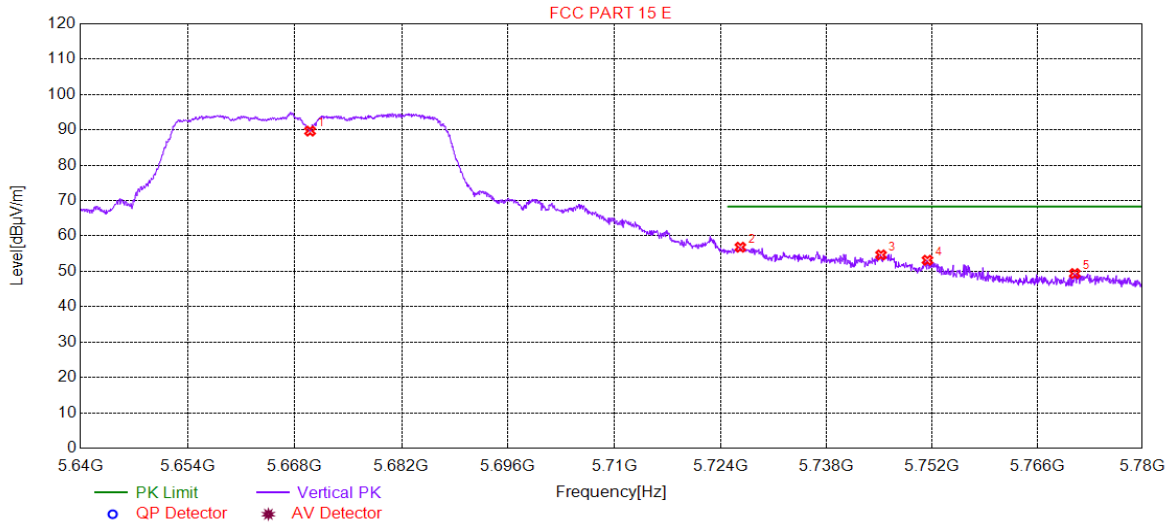
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5407.0235   | 49.44          | 16.25       | 74.00          | 24.56       | 150         | 351       | Horizontal |
| 2   | 5407.5638   | 38.33          | 16.25       | 54.00          | 15.67       | 150         | 351       | Horizontal |
| 3   | 5458.3492   | 34.57          | 16.25       | 54.00          | 19.43       | 150         | 351       | Horizontal |
| 4   | 5468.5243   | 60.08          | 16.25       | 68.30          | 8.22        | 150         | 351       | Horizontal |
| 5   | 5510.0000   | 94.91          | 16.28       | 0.00           | -94.91      | 150         | 351       | Horizontal |
| 6   | 5510.0000   | 79.16          | 16.28       | 0.00           | -79.16      | 150         | 76        | Horizontal |





4.10.1.83 11AC40\_134 ANT 1\_ Vertical



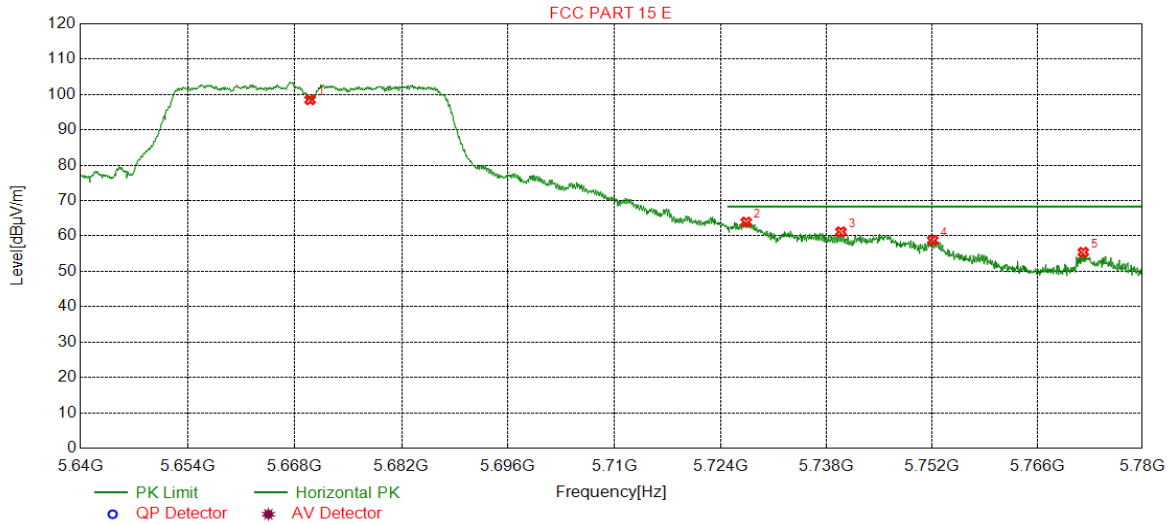
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5670.0000   | 89.66          | 16.64       | 0.00           | -89.66      | 150         | 359       | Vertical |
| 2   | 5726.6333   | 56.83          | 16.97       | 68.30          | 11.47       | 150         | 359       | Vertical |
| 3   | 5745.2626   | 54.65          | 17.09       | 68.30          | 13.65       | 150         | 359       | Vertical |
| 4   | 5751.4257   | 53.15          | 17.12       | 68.30          | 15.15       | 150         | 359       | Vertical |
| 5   | 5771.0355   | 49.38          | 17.15       | 68.30          | 18.92       | 150         | 357       | Vertical |





4.10.1.84 11AC40\_134 ANT 1\_ Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5670.0000   | 98.51          | 16.64       | 0.00           | -98.51      | 150         | 344       | Horizontal |
| 2   | 5727.4037   | 63.94          | 16.98       | 68.30          | 4.36        | 150         | 344       | Horizontal |
| 3   | 5739.9400   | 61.19          | 17.06       | 68.30          | 7.11        | 150         | 344       | Horizontal |
| 4   | 5752.1261   | 58.78          | 17.12       | 68.30          | 9.52        | 150         | 344       | Horizontal |
| 5   | 5772.1561   | 55.41          | 17.15       | 68.30          | 12.89       | 150         | 344       | Horizontal |



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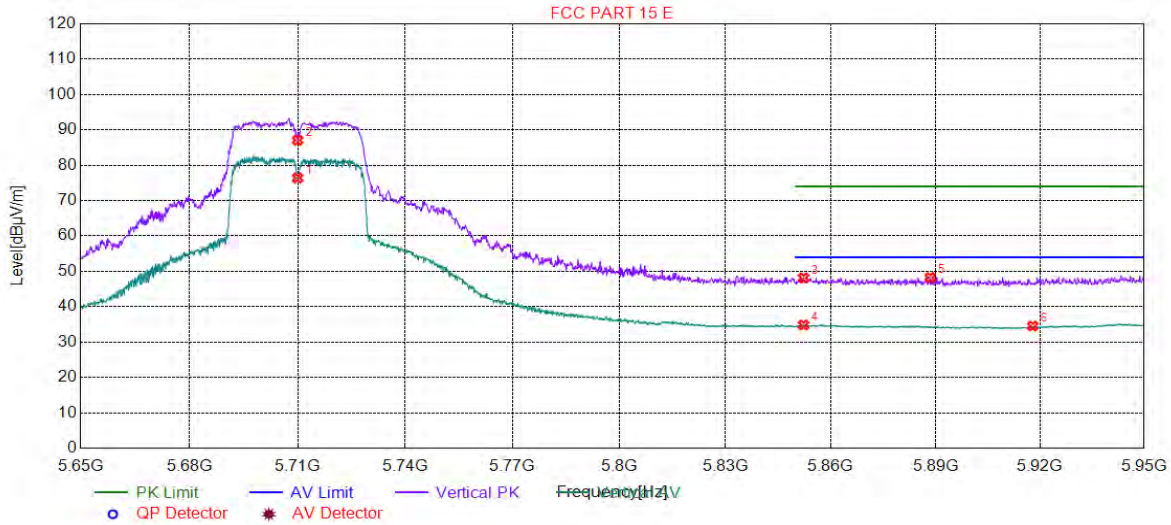
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4.10.1.85 11AC40\_142 ANT 1\_ Vertical



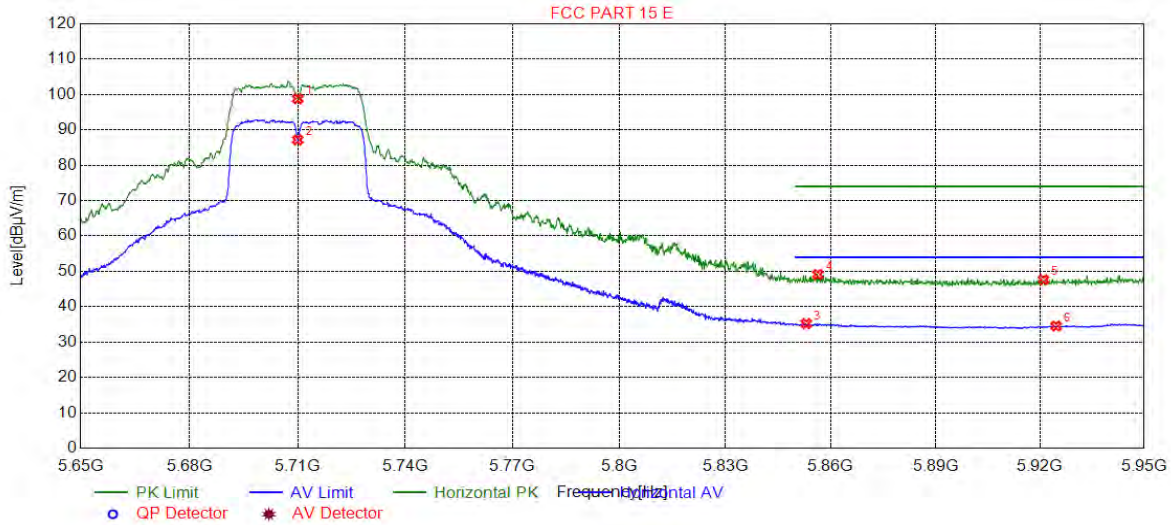
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5710.0000   | 76.39          | 16.86       | 0.00           | -76.39      | 150         | 30        | Vertical |
| 2   | 5710.0000   | 87.08          | 16.86       | 0.00           | -87.08      | 150         | 36        | Vertical |
| 3   | 5852.3012   | 48.17          | 17.25       | 74.00          | 25.83       | 150         | 16        | Vertical |
| 4   | 5852.3012   | 34.85          | 17.25       | 54.00          | 19.15       | 150         | 16        | Vertical |
| 5   | 5888.4692   | 48.27          | 17.14       | 74.00          | 25.73       | 150         | 78        | Vertical |
| 6   | 5917.8839   | 34.54          | 17.39       | 54.00          | 19.46       | 150         | 50        | Vertical |





4.10.1.86 11AC40\_142 ANT 1\_ Horizontal



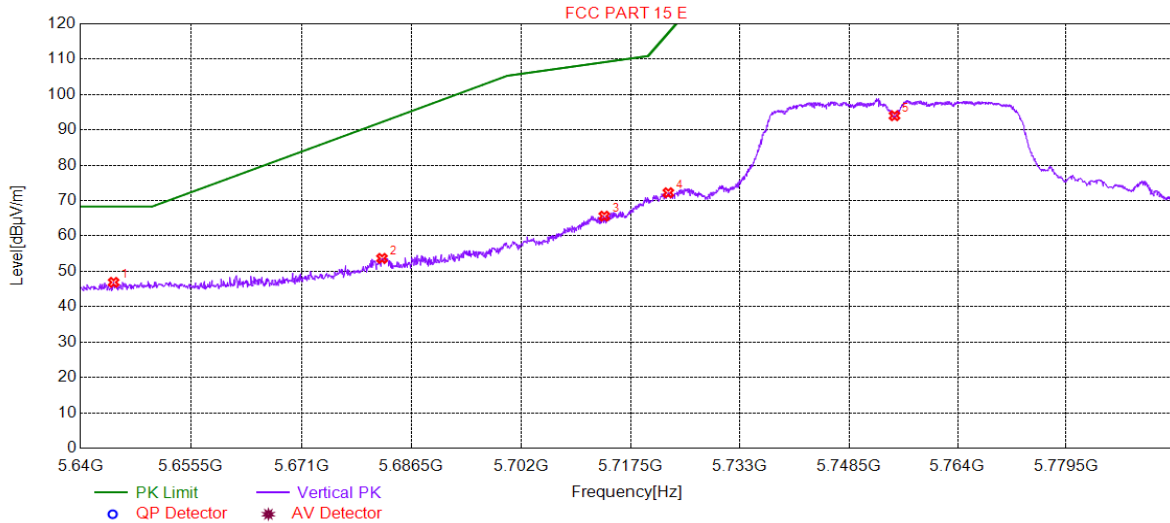
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5710.0000   | 98.79          | 16.86       | 0.00           | -98.79      | 150         | 0         | Horizontal |
| 2   | 5710.0000   | 87.20          | 16.86       | 0.00           | -87.20      | 150         | 344       | Horizontal |
| 3   | 5853.0515   | 35.23          | 17.25       | 54.00          | 18.77       | 150         | 48        | Horizontal |
| 4   | 5856.3532   | 49.12          | 17.24       | 74.00          | 24.88       | 150         | 344       | Horizontal |
| 5   | 5921.0355   | 47.67          | 17.43       | 74.00          | 26.33       | 150         | 152       | Horizontal |
| 6   | 5924.6373   | 34.55          | 17.49       | 54.00          | 19.45       | 150         | 226       | Horizontal |





4.10.1.87 11AC40\_151 ANT 1\_ Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5644.6523   | 46.89          | 16.54       | 68.30          | 21.41       | 150         | 309       | Vertical |
| 2   | 5682.3362   | 53.67          | 16.70       | 92.23          | 38.56       | 150         | 360       | Vertical |
| 3   | 5713.7394   | 65.62          | 16.89       | 109.15         | 43.53       | 150         | 358       | Vertical |
| 4   | 5722.8114   | 72.23          | 16.95       | 117.31         | 45.08       | 150         | 358       | Vertical |
| 5   | 5755.0000   | 94.00          | 17.13       | 0.00           | -94.00      | 150         | 360       | Vertical |



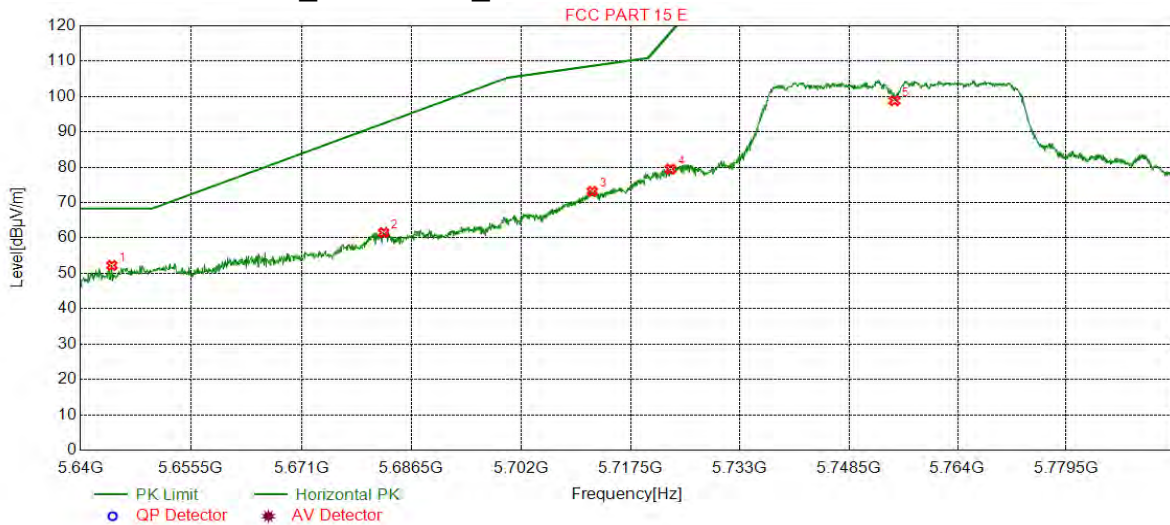
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4.10.1.88 11AC40\_151 ANT 1\_ Horizontal



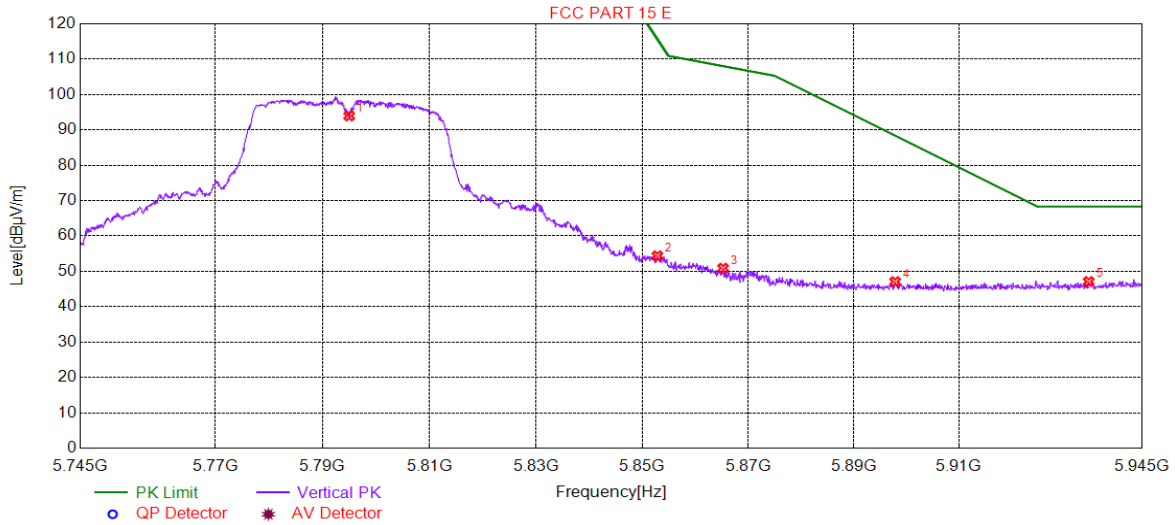
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5644.4197   | 52.24          | 16.54       | 68.30          | 16.06       | 150         | 344       | Horizontal |
| 2   | 5682.5688   | 61.51          | 16.71       | 92.40          | 30.89       | 150         | 344       | Horizontal |
| 3   | 5712.0335   | 73.17          | 16.88       | 108.67         | 35.50       | 150         | 344       | Horizontal |
| 4   | 5723.1216   | 79.48          | 16.95       | 118.02         | 38.54       | 150         | 344       | Horizontal |
| 5   | 5755.0000   | 98.81          | 17.13       | 0.00           | -98.81      | 150         | 344       | Horizontal |





4.10.1.89 11AC40\_159 ANT 1\_ Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5795.0000   | 93.95          | 17.18       | 0.00           | -93.95      | 150         | 358       | Vertical |
| 2   | 5852.8539   | 54.39          | 17.25       | 115.79         | 61.40       | 150         | 57        | Vertical |
| 3   | 5865.2601   | 50.89          | 17.21       | 108.03         | 57.14       | 150         | 16        | Vertical |
| 4   | 5897.8764   | 47.08          | 17.12       | 88.37          | 41.29       | 150         | 314       | Vertical |
| 5   | 5934.7949   | 47.11          | 17.65       | 68.30          | 21.19       | 150         | 360       | Vertical |



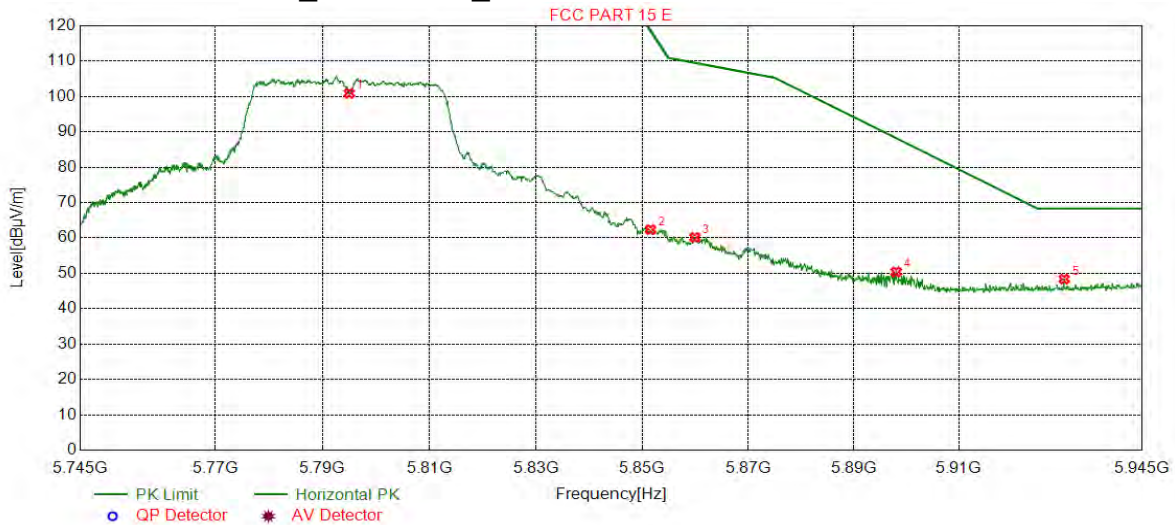
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4.10.1.90 11AC40\_159 ANT 1\_ Horizontal



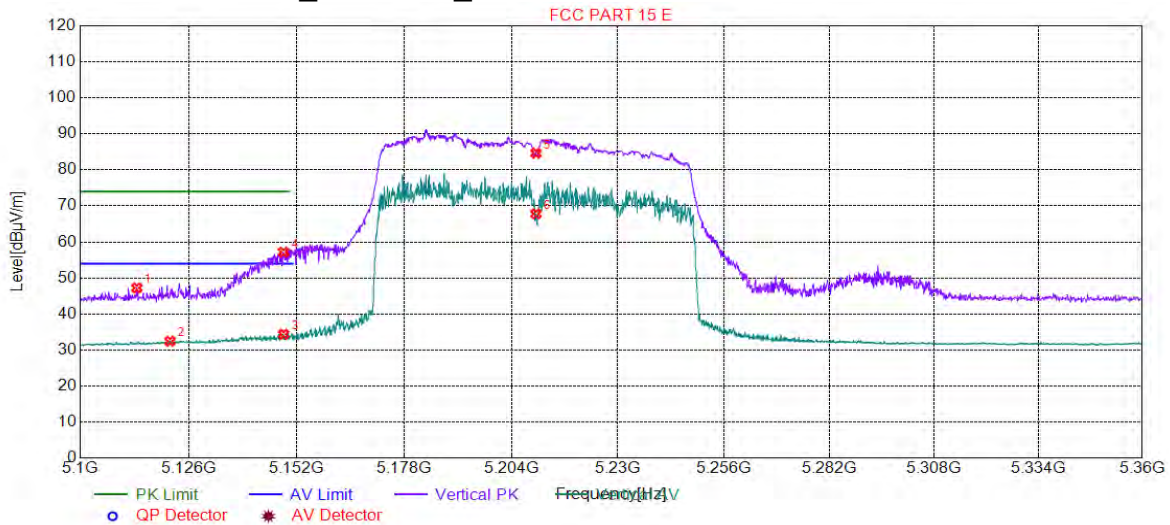
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5795.0000   | 100.92         | 17.18       | 0.00           | -100.92     | 150         | 344       | Horizontal |
| 2   | 5851.5533   | 62.37          | 17.26       | 118.76         | 56.39       | 150         | 344       | Horizontal |
| 3   | 5859.9575   | 60.17          | 17.23       | 109.51         | 49.34       | 150         | 344       | Horizontal |
| 4   | 5898.0765   | 50.42          | 17.12       | 88.22          | 37.80       | 150         | 344       | Horizontal |
| 5   | 5930.0925   | 48.38          | 17.57       | 68.30          | 19.92       | 150         | 326       | Horizontal |





4.10.1.91 11AC80\_42 ANT 1\_ Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5113.5268   | 47.26          | 15.21       | 74.00          | 26.74       | 150         | 32        | Vertical |
| 2   | 5121.4607   | 32.46          | 15.27       | 54.00          | 21.54       | 150         | 194       | Vertical |
| 3   | 5148.7744   | 34.39          | 15.51       | 54.00          | 19.61       | 150         | 32        | Vertical |
| 4   | 5148.7744   | 57.19          | 15.51       | 74.00          | 16.81       | 150         | 32        | Vertical |
| 5   | 5210.0000   | 84.63          | 15.56       | 0.00           | -84.63      | 150         | 32        | Vertical |
| 6   | 5210.0000   | 67.80          | 15.56       | 0.00           | -67.80      | 150         | 242       | Vertical |



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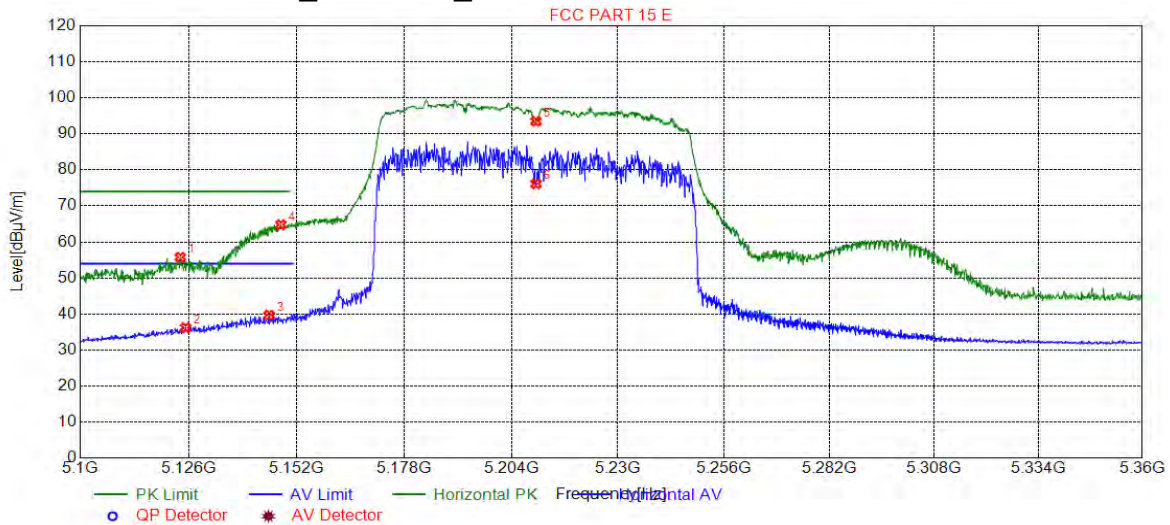
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4.10.1.92 11AC80\_42 ANT 1\_ Horizontal



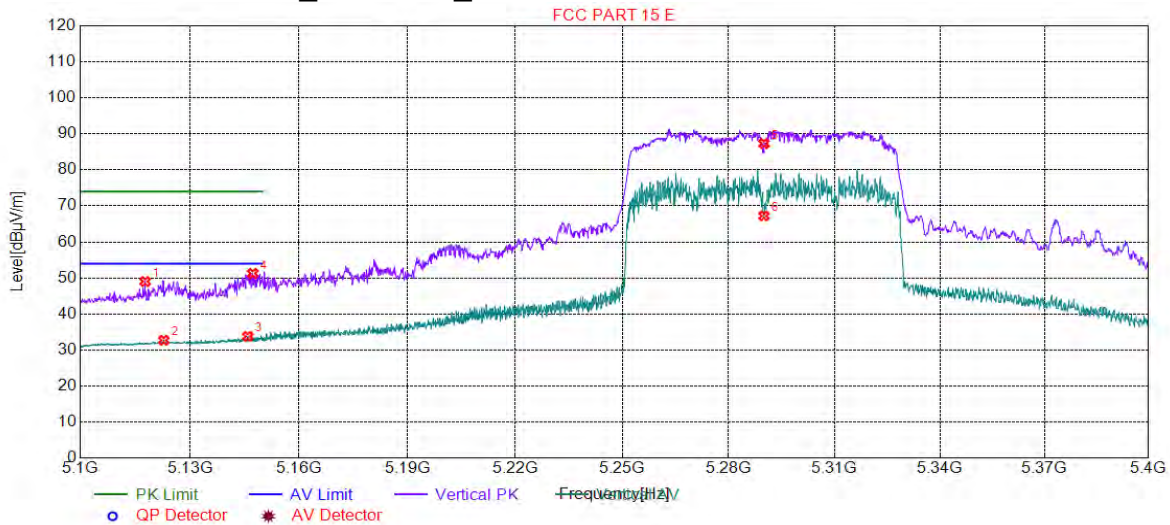
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5123.9320   | 55.75          | 15.30       | 74.00          | 18.25       | 150         | 348       | Horizontal |
| 2   | 5125.2326   | 36.17          | 15.31       | 54.00          | 17.83       | 150         | 348       | Horizontal |
| 3   | 5145.2626   | 39.69          | 15.48       | 54.00          | 14.31       | 150         | 348       | Horizontal |
| 4   | 5148.1241   | 64.76          | 15.50       | 74.00          | 9.24        | 150         | 348       | Horizontal |
| 5   | 5210.0000   | 93.46          | 15.56       | 0.00           | -93.46      | 150         | 354       | Horizontal |
| 6   | 5210.0000   | 76.13          | 15.56       | 0.00           | -76.13      | 150         | 359       | Horizontal |





4.10.1.93 11AC80\_58 ANT 1\_ Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5117.7089   | 49.02          | 15.24       | 74.00          | 24.98       | 150         | 34        | Vertical |
| 2   | 5122.8114   | 32.70          | 15.29       | 54.00          | 21.30       | 150         | 34        | Vertical |
| 3   | 5145.9230   | 33.78          | 15.48       | 54.00          | 20.22       | 150         | 34        | Vertical |
| 4   | 5147.2736   | 51.26          | 15.50       | 74.00          | 22.74       | 150         | 27        | Vertical |
| 5   | 5290.0000   | 87.32          | 15.65       | 0.00           | -87.32      | 150         | 242       | Vertical |
| 6   | 5290.0000   | 67.23          | 15.65       | 0.00           | -67.23      | 150         | 174       | Vertical |



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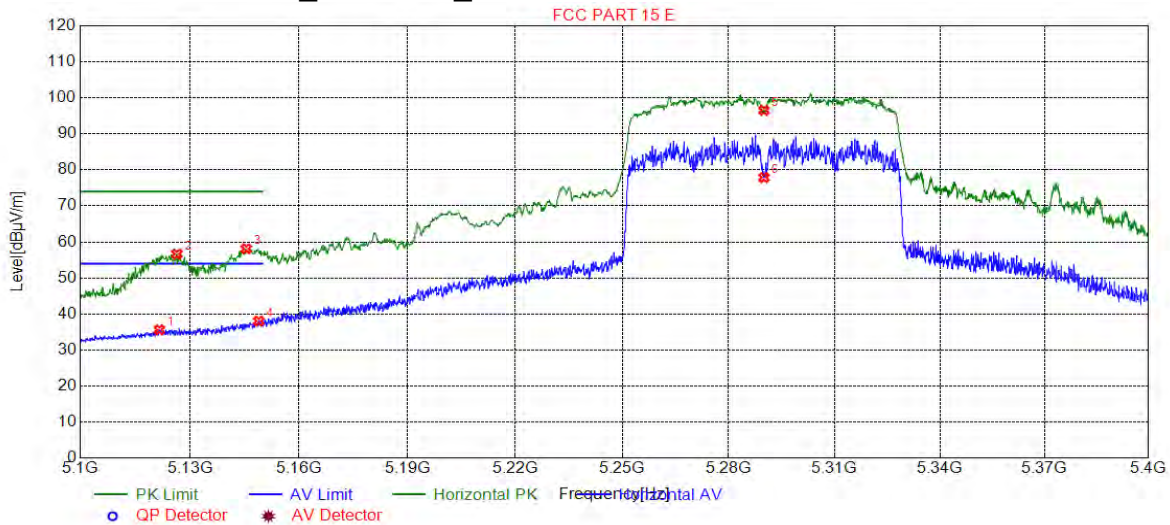
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4.10.1.94 11AC80\_58 ANT 1\_ Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5121.6108   | 35.61          | 15.28       | 54.00          | 18.39       | 150         | 16        | Horizontal |
| 2   | 5126.4132   | 56.65          | 15.32       | 74.00          | 17.35       | 150         | 16        | Horizontal |
| 3   | 5145.4727   | 58.11          | 15.48       | 74.00          | 15.89       | 150         | 352       | Horizontal |
| 4   | 5148.9245   | 38.04          | 15.51       | 54.00          | 15.96       | 150         | 77        | Horizontal |
| 5   | 5290.0000   | 96.53          | 15.65       | 0.00           | -96.53      | 150         | 352       | Horizontal |
| 6   | 5290.0000   | 77.87          | 15.65       | 0.00           | -77.87      | 150         | 358       | Horizontal |



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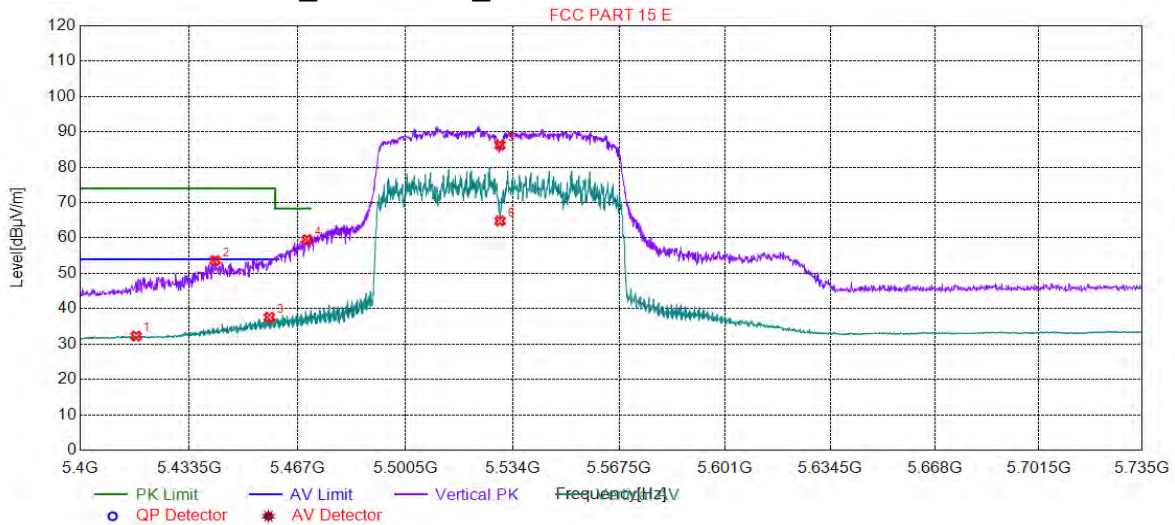
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4.10.1.95 11AC80\_106 ANT 1\_ Vertical



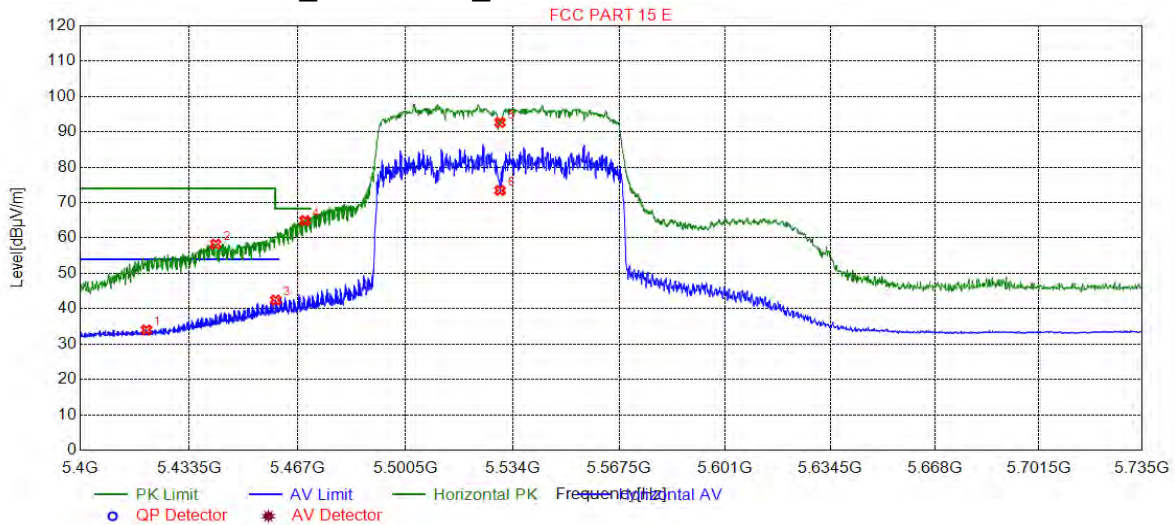
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5417.0935   | 32.27          | 16.25       | 54.00          | 21.73       | 150         | 344       | Vertical |
| 2   | 5441.3932   | 53.66          | 16.25       | 74.00          | 20.34       | 150         | 26        | Vertical |
| 3   | 5458.1516   | 37.57          | 16.25       | 54.00          | 16.43       | 150         | 33        | Vertical |
| 4   | 5469.8824   | 59.53          | 16.25       | 68.30          | 8.77        | 150         | 26        | Vertical |
| 5   | 5530.0000   | 86.27          | 16.35       | 0.00           | -86.27      | 150         | 26        | Vertical |
| 6   | 5530.0000   | 64.84          | 16.35       | 0.00           | -64.84      | 150         | 344       | Vertical |





4.10.1.96 11AC80\_106 ANT 1\_ Horizontal



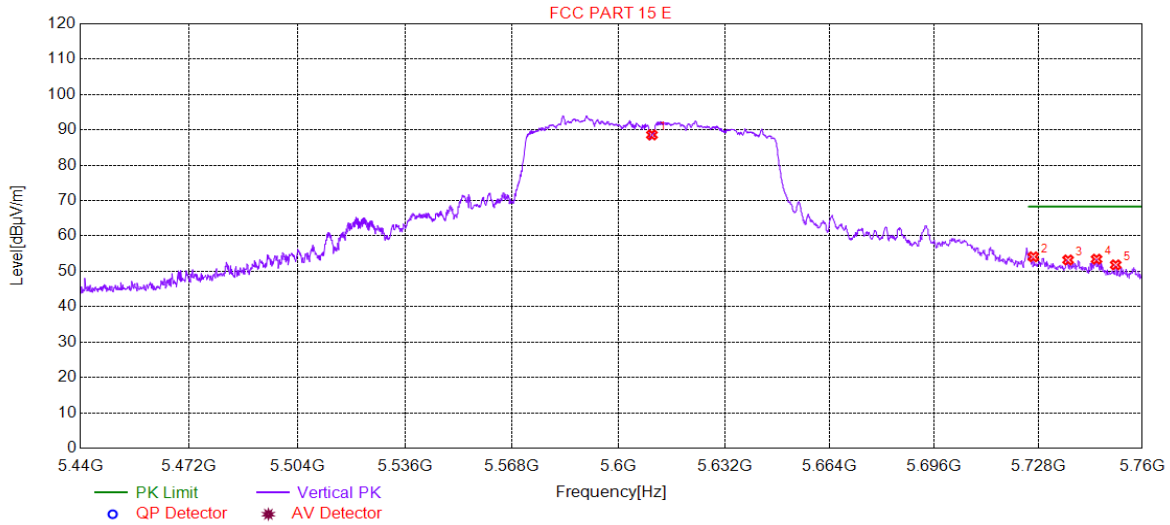
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5420.2776   | 33.99          | 16.25       | 54.00          | 20.01       | 150         | 350       | Horizontal |
| 2   | 5441.5608   | 58.28          | 16.25       | 74.00          | 15.72       | 150         | 350       | Horizontal |
| 3   | 5460.1626   | 42.44          | 16.25       | 54.00          | 11.56       | 150         | 350       | Horizontal |
| 4   | 5469.2121   | 64.91          | 16.25       | 68.30          | 3.39        | 150         | 350       | Horizontal |
| 5   | 5530.0000   | 92.65          | 16.35       | 0.00           | -92.65      | 150         | 357       | Horizontal |
| 6   | 5530.0000   | 73.47          | 16.35       | 0.00           | -73.47      | 150         | 159       | Horizontal |





4.10.1.97 11AC80\_122 ANT 1\_ Vertical



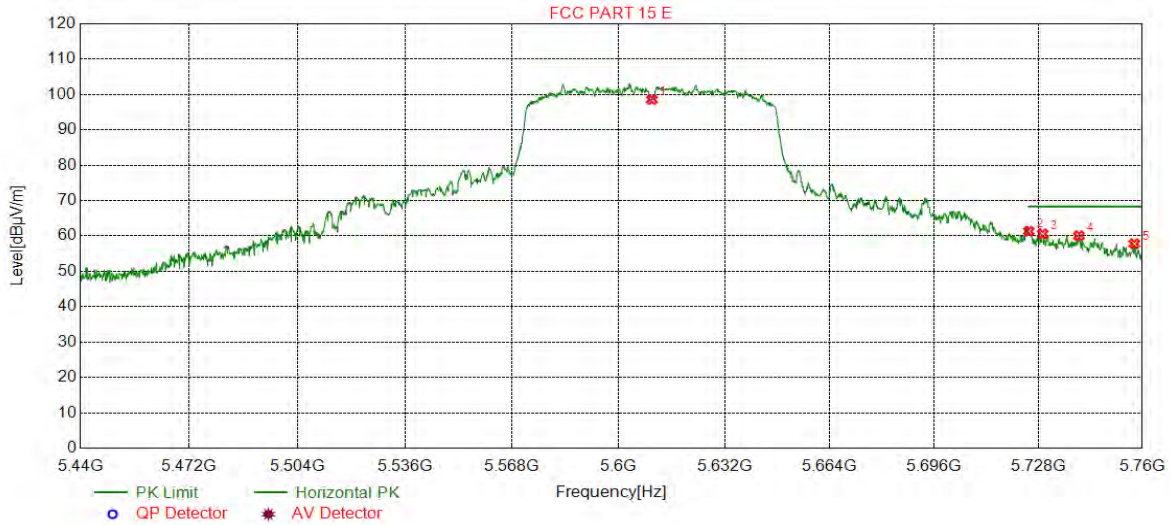
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5610.0000   | 88.58          | 16.58       | 0.00           | -88.58      | 150         | 23        | Vertical |
| 2   | 5726.3832   | 54.11          | 16.97       | 68.30          | 14.19       | 150         | 344       | Vertical |
| 3   | 5737.1086   | 53.22          | 17.04       | 68.30          | 15.08       | 150         | 344       | Vertical |
| 4   | 5745.9130   | 53.45          | 17.09       | 68.30          | 14.85       | 150         | 344       | Vertical |
| 5   | 5751.8359   | 51.84          | 17.12       | 68.30          | 16.46       | 150         | 344       | Vertical |





4.10.1.98 11AC80\_122 ANT 1\_ Horizontal



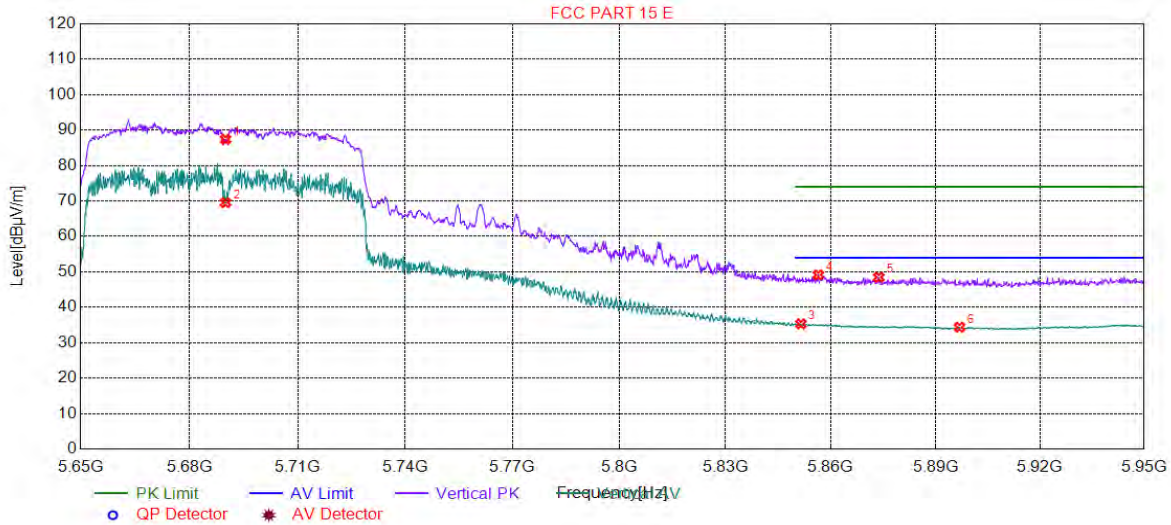
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5610.0000   | 98.57          | 16.58       | 0.00           | -98.57      | 150         | 358       | Horizontal |
| 2   | 5725.0000   | 61.36          | 16.96       | 68.30          | 6.94        | 150         | 355       | Horizontal |
| 3   | 5729.2646   | 60.61          | 16.99       | 68.30          | 7.69        | 150         | 358       | Horizontal |
| 4   | 5740.4702   | 60.06          | 17.06       | 68.30          | 8.24        | 150         | 355       | Horizontal |
| 5   | 5757.5988   | 57.79          | 17.13       | 68.30          | 10.51       | 150         | 355       | Horizontal |





4.10.1.99 11AC80\_138 ANT 1\_ Vertical



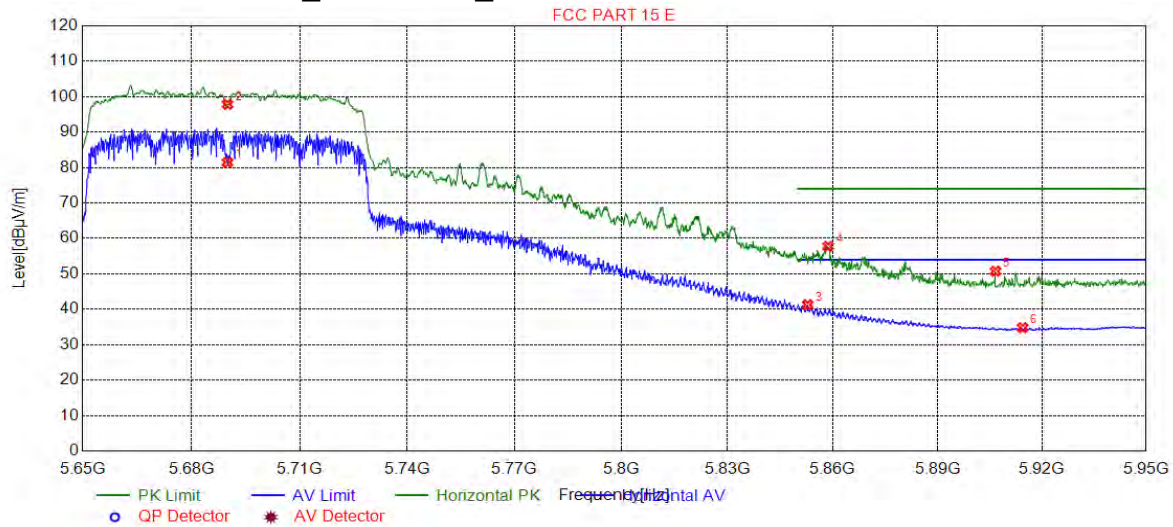
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5690.0000   | 87.40          | 16.75       | 0.00           | -87.40      | 150         | 16        | Vertical |
| 2   | 5690.0000   | 69.53          | 16.75       | 0.00           | -69.53      | 150         | 16        | Vertical |
| 3   | 5851.5508   | 35.32          | 17.26       | 54.00          | 18.68       | 150         | 57        | Vertical |
| 4   | 5856.5033   | 49.16          | 17.24       | 74.00          | 24.84       | 150         | 50        | Vertical |
| 5   | 5873.7619   | 48.47          | 17.19       | 74.00          | 25.53       | 150         | 326       | Vertical |
| 6   | 5896.8734   | 34.39          | 17.12       | 54.00          | 19.61       | 150         | 244       | Vertical |





4.10.1.100 11AC80\_138 ANT 1\_ Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5690.0000   | 81.45          | 16.75       | 0.00           | -81.45      | 150         | 344       | Horizontal |
| 2   | 5690.0000   | 97.83          | 16.75       | 0.00           | -97.83      | 150         | 69        | Horizontal |
| 3   | 5852.9015   | 41.27          | 17.25       | 54.00          | 12.73       | 150         | 56        | Horizontal |
| 4   | 5858.7544   | 57.75          | 17.23       | 74.00          | 16.25       | 150         | 49        | Horizontal |
| 5   | 5906.6283   | 50.73          | 17.21       | 74.00          | 23.27       | 150         | 344       | Horizontal |
| 6   | 5914.4322   | 34.79          | 17.33       | 54.00          | 19.21       | 150         | 56        | Horizontal |



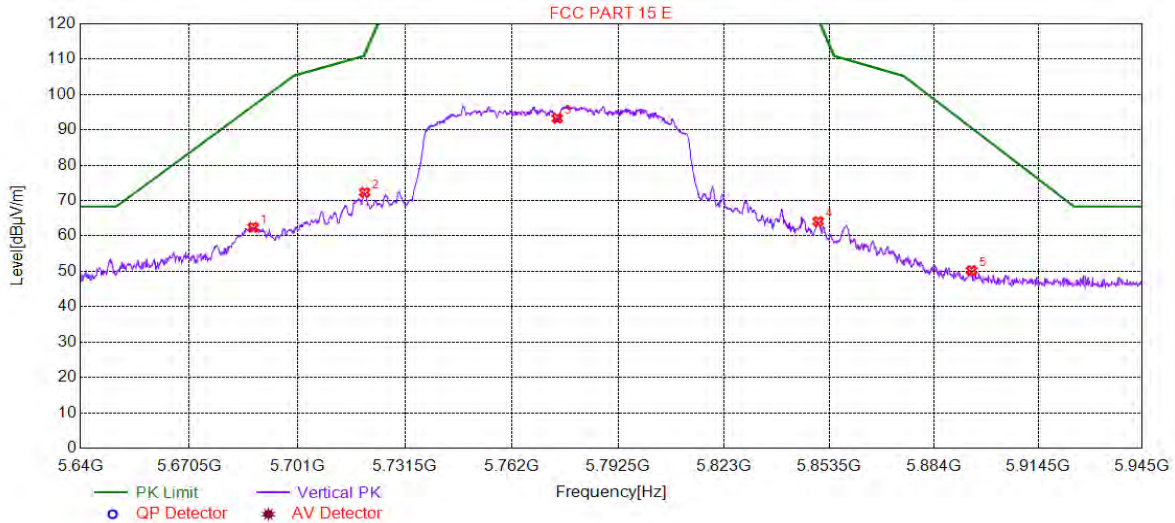
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4.10.1.101 11AC80\_155 ANT 1\_ Vertical



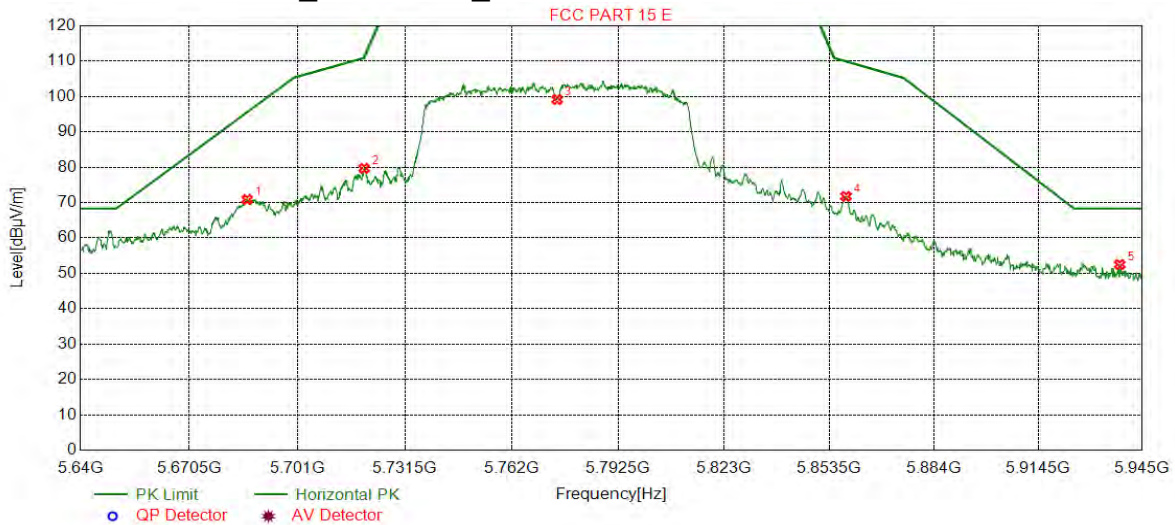
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 5688.5193   | 62.44          | 16.74       | 96.80          | 34.36       | 150         | 344       | Vertical |
| 2   | 5720.1026   | 72.33          | 16.93       | 111.13         | 38.80       | 150         | 344       | Vertical |
| 3   | 5775.0000   | 93.28          | 17.16       | 122.30         | 29.02       | 150         | 344       | Vertical |
| 4   | 5850.2501   | 64.11          | 17.26       | 121.73         | 57.62       | 150         | 180       | Vertical |
| 5   | 5894.9550   | 50.24          | 17.13       | 90.53          | 40.29       | 150         | 176       | Vertical |





4.10.1.102 11AC80\_155 ANT 1\_ Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 5686.8409   | 70.87          | 16.73       | 95.56          | 24.69       | 150         | 358       | Horizontal |
| 2   | 5719.9500   | 79.69          | 16.93       | 110.89         | 31.20       | 150         | 358       | Horizontal |
| 3   | 5775.0000   | 99.16          | 17.16       | 122.30         | 23.14       | 150         | 360       | Horizontal |
| 4   | 5858.3367   | 71.77          | 17.23       | 109.97         | 38.20       | 150         | 360       | Horizontal |
| 5   | 5938.4392   | 52.50          | 17.70       | 68.30          | 15.80       | 150         | 83        | Horizontal |

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All modes have been tested, but only the worst case data displayed in this report.



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## 4.11 Frequencies Stability

### 4.11.1 Frequency Error vs. Voltage:

| Test Conditions            | Measured Frequency ( MHz ) |             |
|----------------------------|----------------------------|-------------|
|                            | 5180                       | 5320        |
| V nom(V)                   | 5180.004496                | 5320.004955 |
| V max(V)                   | 5180.004752                | 5320.005744 |
| V min(V)                   | 5180.010877                | 5320.014636 |
| Max. Deviation Frequency   | 0.010877                   | 0.014636    |
| Max. Frequency Error (ppm) | 2.099844                   | 2.751082    |

### 4.11.2 Frequency Error vs. Temperature:

| Test Conditions(°C)        | Measured Frequency ( MHz ) |             |
|----------------------------|----------------------------|-------------|
|                            | 5180                       | 5320        |
| -5                         | 5180.007476                | 5320.008208 |
| 5                          | 5180.015929                | 5320.012376 |
| 15                         | 5180.016843                | 5320.020292 |
| 25                         | 5180.016935                | 5320.020434 |
| 35                         | 5180.019487                | 5320.029369 |
| 45                         | 5180.023804                | 5320.034712 |
| 50                         | 5180.027623                | 5320.041941 |
| Max. Deviation Frequency   | 0.027623                   | 0.041941    |
| Max. Frequency Error (ppm) | 5.332583                   | 7.883564    |



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## 4.12 Dynamic Frequency Selection

### 4.12.1 DFS Overview

**Table 1: Applicability of DFS Requirements Prior to Use of a Channel**

| Requirement                            | Operational Mode |                                |                             |
|----------------------------------------|------------------|--------------------------------|-----------------------------|
|                                        | Master           | Client Without Radar Detection | Client With Radar Detection |
| <i>Non-Occupancy Period</i>            | Yes              | Not required                   | Yes                         |
| <i>DFS Detection Threshold</i>         | Yes              | Not required                   | Yes                         |
| <i>Channel Availability Check Time</i> | Yes              | Not required                   | Not required                |
| <i>U-NII Detection Bandwidth</i>       | Yes              | Not required                   | Yes                         |

**Table 2: Applicability of DFS requirements during normal operation**

| Requirement                                                                                                                                                                                                                                                                                                                                                  | Operational Mode                                    |                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                              | Master Device or Client with Radar Detection        | Client Without Radar Detection                       |
| <i>DFS Detection Threshold</i>                                                                                                                                                                                                                                                                                                                               | Yes                                                 | Not required                                         |
| <i>Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                     | Yes                                                 | Yes                                                  |
| <i>Channel Move Time</i>                                                                                                                                                                                                                                                                                                                                     | Yes                                                 | Yes                                                  |
| <i>U-NII Detection Bandwidth</i>                                                                                                                                                                                                                                                                                                                             | Yes                                                 | Not required                                         |
| <b>Additional requirements for devices with multiple bandwidth modes</b>                                                                                                                                                                                                                                                                                     | <b>Master Device or Client with Radar Detection</b> | <b>Client Without Radar Detection</b>                |
| <i>U-NII Detection Bandwidth and Statistical Performance Check</i>                                                                                                                                                                                                                                                                                           | All BW modes must be tested                         | Not required                                         |
| <i>Channel Move Time and Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                               | Test using widest BW mode available                 | Test using the widest BW mode available for the link |
| <i>All other tests</i>                                                                                                                                                                                                                                                                                                                                       | Any single BW mode                                  | Not required                                         |
| <b>Note:</b> Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency. |                                                     |                                                      |





#### 4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Value<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -64 dBm                          |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -64 dBm                          |
| <p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p><b>Note3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

#### 4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

| Parameter                                | Value                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <i>Non-occupancy period</i>              | Minimum 30 minutes                                                                                        |
| <i>Channel Availability Check Time</i>   | 60 seconds                                                                                                |
| <i>Channel Move Time</i>                 | 10 seconds<br>See Note 1.                                                                                 |
| <i>Channel Closing Transmission Time</i> | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| <i>U-NII Detection Bandwidth</i>         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   |

**Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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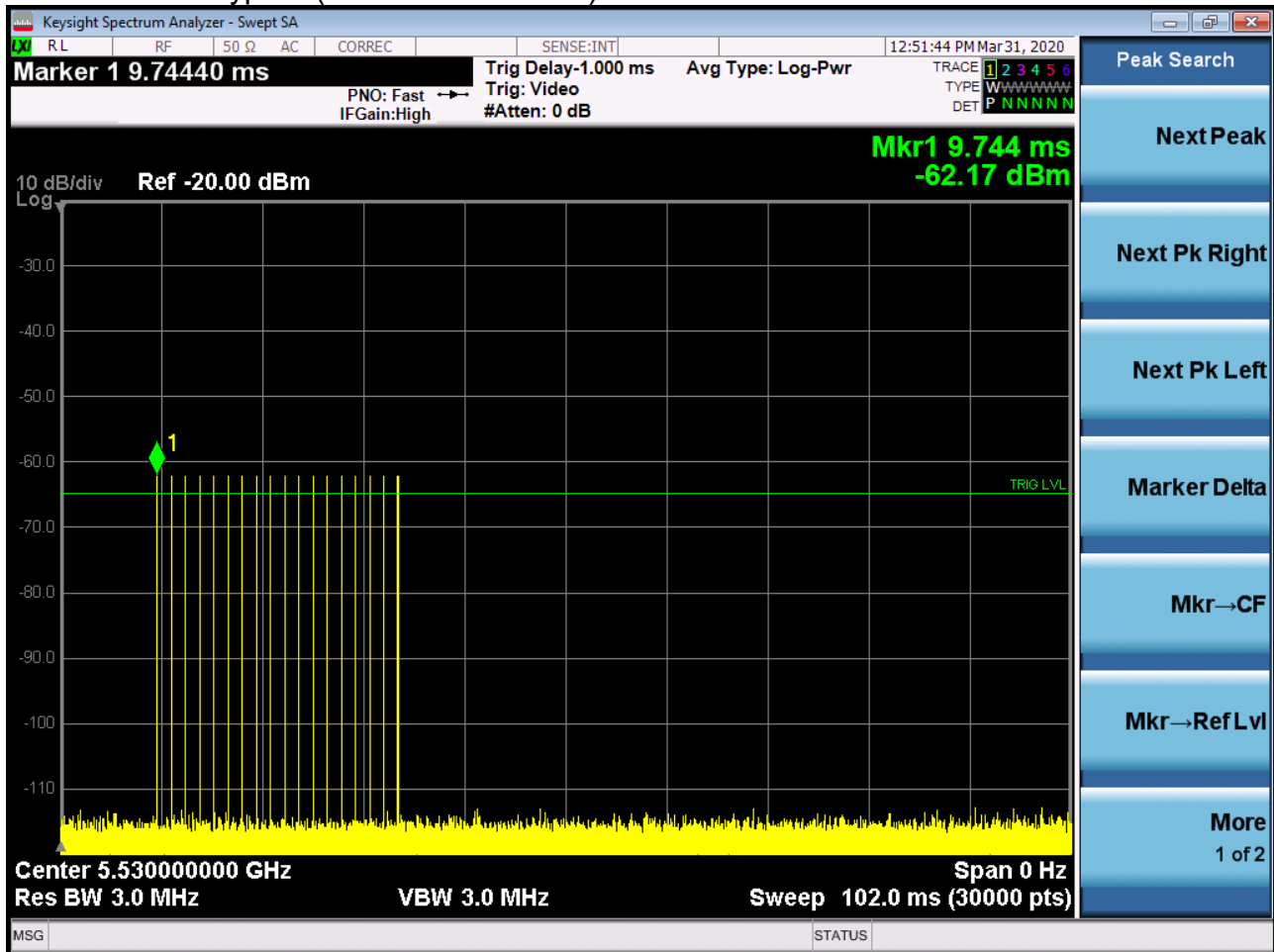
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#### 4.12.4 Test plots

##### 4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5530MHz)



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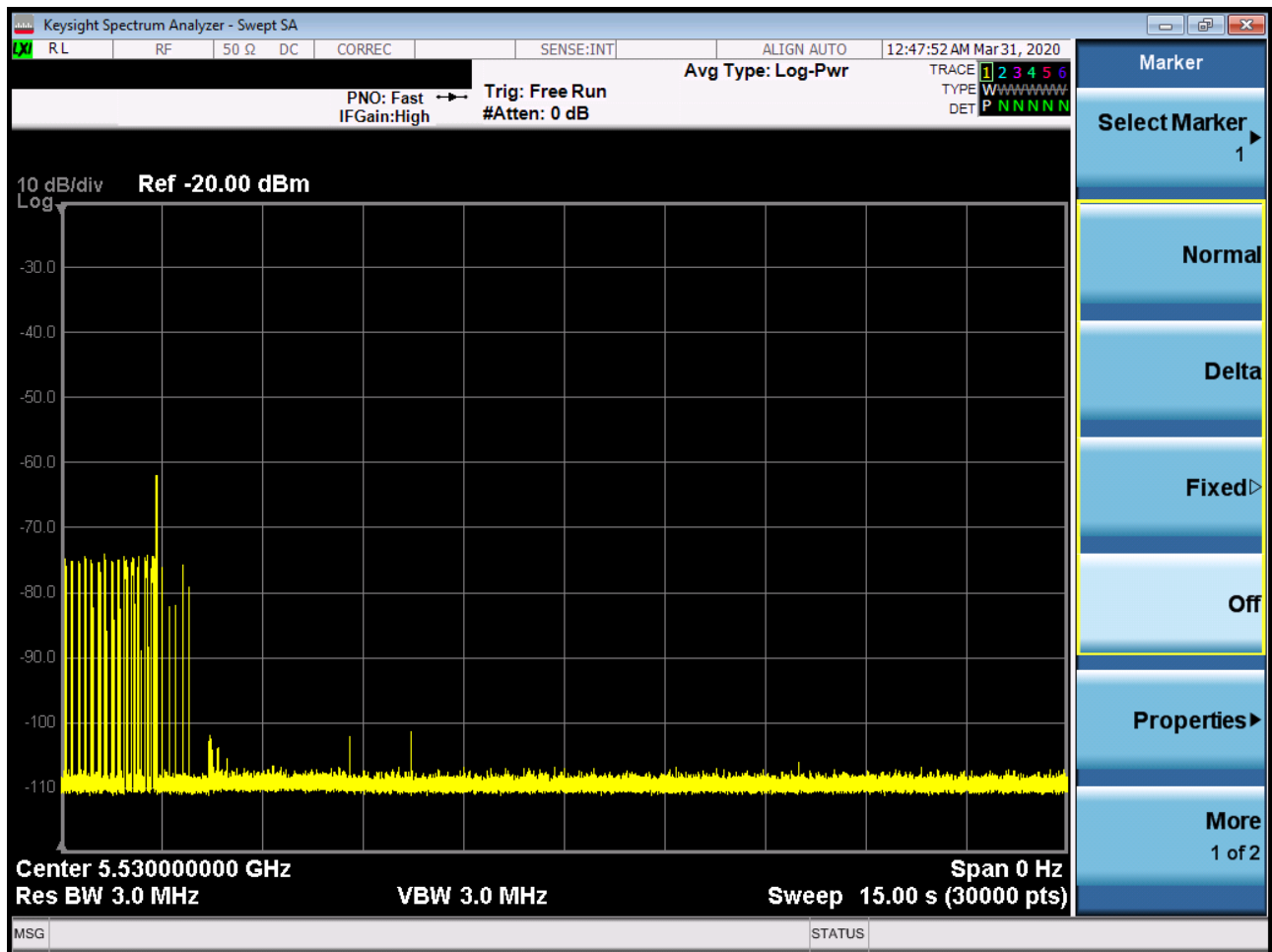


#### 4.12.5 Test Data:

| BW/Channel      | Test Item                         | Test Result | Limit  | Results |
|-----------------|-----------------------------------|-------------|--------|---------|
| 80MHz / 5530MHz | Channel Move Time                 | 0.483s      | < 10s  | Pass    |
|                 | Channel Closing Transmission Time | 1.5ms       | < 60ms | Pass    |

#### 4.12.5.1 Test plots

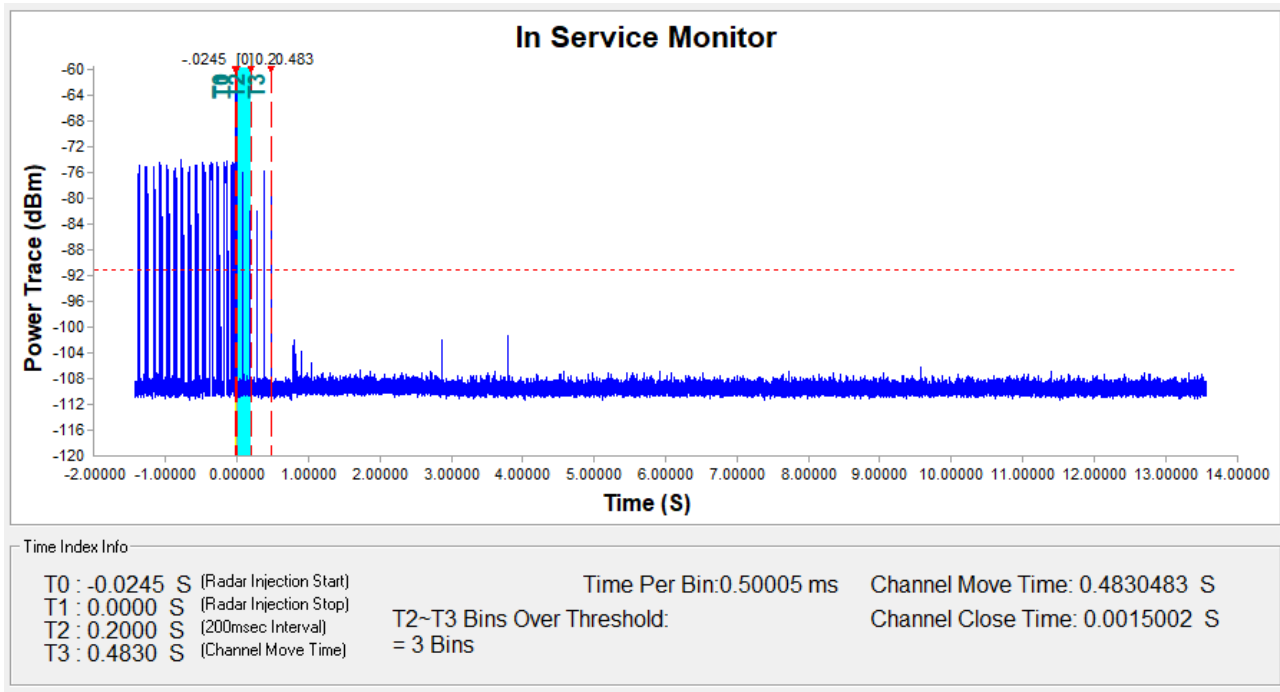
##### 4.12.5.1.1 Test Bandwidth/Channel= 80MHz / 5530MHz



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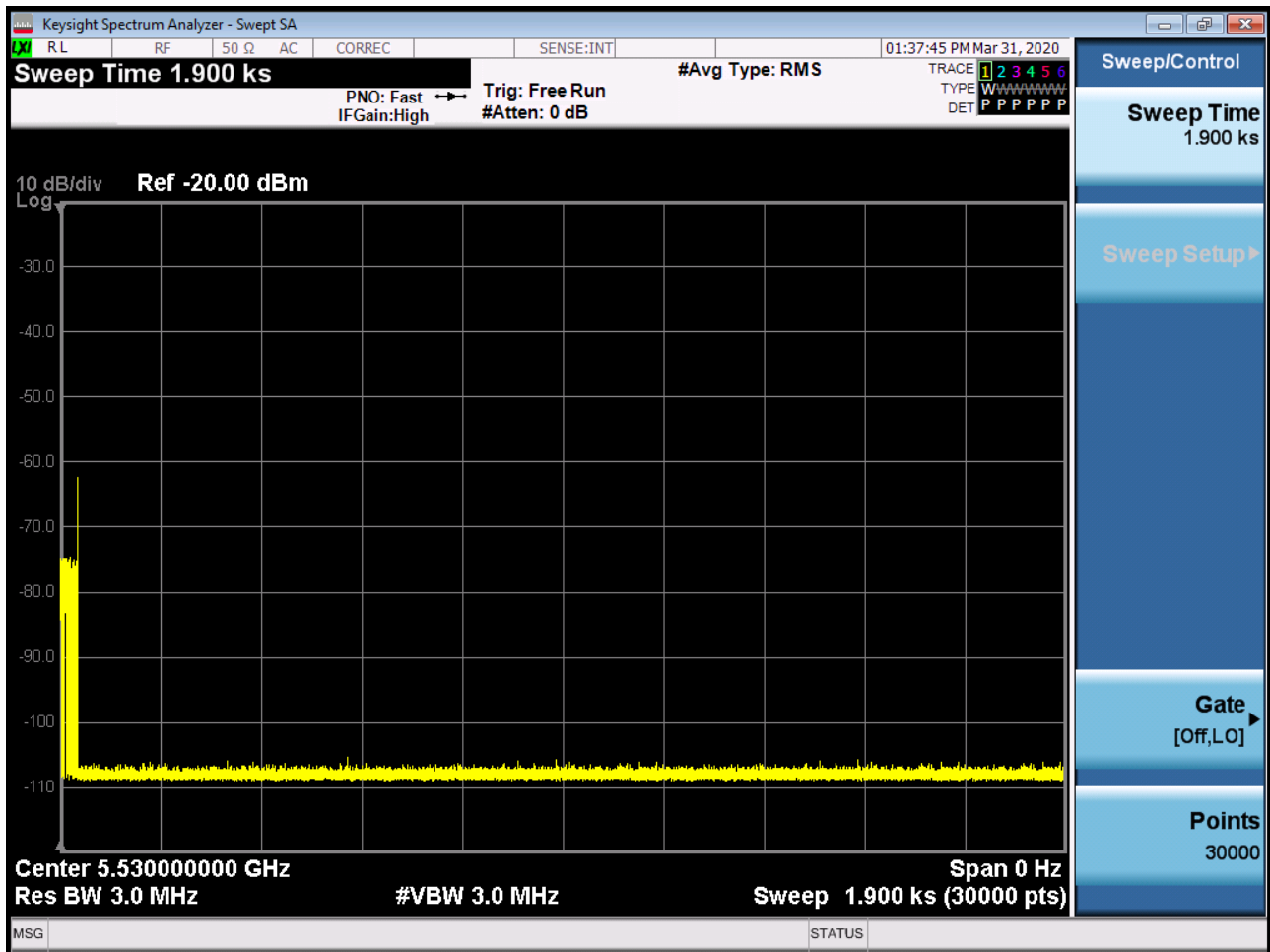
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## 5 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty            |
|-----|---------------------------------|------------------------------------|
| 1   | Total RF power, conducted       | $\pm 0.75\text{dB}$                |
| 2   | RF power density, conducted     | $\pm 2.84\text{dB}$                |
| 3   | Spurious emissions, conducted   | $\pm 0.75\text{dB}$                |
| 4   | Radiated Spurious emission test | $\pm 4.5\text{dB}$ (30MHz-1GHz)    |
|     |                                 | $\pm 4.8\text{dB}$ (1GHz-25GHz)    |
| 5   | Conduct emission test           | $\pm 3.12\text{ dB}$ (9KHz- 30MHz) |
| 6   | Temperature test                | $\pm 1^{\circ}\text{C}$            |
| 7   | Humidity test                   | $\pm 3\%$                          |
| 8   | DC and low frequency voltages   | $\pm 0.5\%$                        |



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## 6 Equipment List

| Conducted Emission   |                                    |                  |                                                 |                           |                               |
|----------------------|------------------------------------|------------------|-------------------------------------------------|---------------------------|-------------------------------|
| Test Equipment       | Manufacturer                       | Model No.        | Inventory No.                                   | Cal. Date<br>(yyyy-mm-dd) | Cal. Due date<br>(yyyy-mm-dd) |
| Shielding Room       | ZhongYu Electron                   | GB-88            | SEM001-06                                       | 2017/5/10                 | 2020/5/9                      |
| LISN                 | Rohde & Schwarz                    | ENV216           | SEM007-01                                       | 2019/7/14                 | 2020/7/14                     |
| LISN                 | ETS-LINDGREN                       | Feb-16           | SEM007-02                                       | 2019/3/2                  | 2020/3/1                      |
| Measurement Software | AUDIX                              | e3 V5.4.1221d    | N/A                                             | N/A                       | N/A                           |
| Coaxial Cable        | SGS                                | N/A              | SEM024-01                                       | 2019/6/12                 | 2020/6/11                     |
| 8 Line ISN           | Fischer Custom Communications Inc. | FCC-TLISN-T8-02  | EMC0120                                         | 2019/2/11                 | 2020/2/10                     |
| 4 Line ISN           | Fischer Custom Communications Inc. | FCC-TLISN-T4-02  | EMC0121                                         | 2019/2/11                 | 2020/2/10                     |
| 2 Line ISN           | Fischer Custom Communications Inc. | FCC-TLISN-T2-02  | EMC0122                                         | 2019/2/11                 | 2020/2/10                     |
| EMI Test Receiver    | Rohde & Schwarz                    | ESCI             | SEM004-02                                       | 2019/3/2                  | 2020/3/1                      |
| RF conducted test    |                                    |                  |                                                 |                           |                               |
| Test Equipment       | Manufacturer                       | Model No.        | Inventory No.                                   | Cal. Date<br>(yyyy-mm-dd) | Cal. Due date<br>(yyyy-mm-dd) |
| DC Power Supply      | ZhaoXin                            | RXN-305D         | SEM011-02                                       | 2019/7/14                 | 2020/7/14                     |
| Signal Analyzer      | Rohde & Schwarz                    | FSV              | W025-05                                         | 2019/3/2                  | 2020/3/1                      |
| Coaxial Cable        | SGS                                | N/A              | SEM031-01                                       | 2019/6/12                 | 2020/6/11                     |
| Attenuator           | Weinschel Associates               | WA41             | SEM021-09                                       | N/A                       | N/A                           |
| Signal Generator     | KEYSIGHT                           | N5173B           | SEM006-05                                       | 2019/7/14                 | 2020/7/14                     |
| Temperature Chamber  | GIANT FORCE                        | ICT-150-40-CP-AR | W027-03                                         | 2018/11/27                | 2019/11/27                    |
| Power Meter          | Rohde & Schwarz                    | NRVS             | SEM014-02                                       | 2019/7/14                 | 2020/7/14                     |
| Master Device        | Linksys pte.Ltd                    | WRT32X           | FCC ID:Q87-WRT3200ACM<br>IC ID:3839A-WRT3200ACM | N/A                       | N/A                           |





| RE in Chamber                  |                      |                 |               |                        |                            |
|--------------------------------|----------------------|-----------------|---------------|------------------------|----------------------------|
| Test Equipment                 | Manufacturer         | Model No.       | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 3m Semi-Anechoic Chamber       | ETS-LINDGREN         | N/A             | SEM001-01     | 2017/8/5               | 2020/8/4                   |
| Measurement Software           | AUDIX                | e3 V8.2014-6-27 | N/A           | N/A                    | N/A                        |
| Coaxial Cable                  | SGS                  | N/A             | SEM025-01     | 2019/6/12              | 2020/6/11                  |
| MXE EMI Receiver (20Hz-8.4GHz) | Agilent Technologies | N9038A          | SEM004-05     | 2019/7/14              | 2020/7/14                  |
| BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN         | 3142C           | SEM003-01     | 2017/6/27              | 2020/6/26                  |
| Pre-amplifier (0.1-1.3GHz)     | Agilent Technologies | 8447D           | SEM005-01     | 2019/3/2               | 2020/3/1                   |

| RE in Chamber                       |                      |                 |               |                        |                            |
|-------------------------------------|----------------------|-----------------|---------------|------------------------|----------------------------|
| Test Equipment                      | Manufacturer         | Model No.       | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 10m Semi-Anechoic Chamber           | SAEMC                | FSAC1018        | SEM001-03     | 2018/3/31              | 2021/3/30                  |
| EMI Test Receiver (9k-7GHz)         | Rohde & Schwarz      | ESR             | SEM004-03     | 2019/3/2               | 2020/3/1                   |
| Trilog-Broadband Antenna (25M-2GHz) | Schwarzbeck          | VULB9168        | SEM003-18     | 2019/6/12              | 2020/6/11                  |
| Pre-amplifier (9k-1GHz)             | Sonoma Instrument Co | 310N            | SEM005-03     | 2019/4/12              | 2020/4/11                  |
| Loop Antenna (9kHz-30MHz)           | ETS-Lindgren         | 6502            | SEM003-08     | 2017/8/22              | 2020/8/21                  |
| Measurement Software                | AUDIX                | e3 V8.2014-6-27 | N/A           | N/A                    | N/A                        |
| Coaxial Cable                       | SGS                  | N/A             | SEM029-01     | 2019/6/12              | 2020/6/11                  |

| RE in Chamber                      |                                    |                   |               |                        |                            |
|------------------------------------|------------------------------------|-------------------|---------------|------------------------|----------------------------|
| Test Equipment                     | Manufacturer                       | Model No.         | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 3m Semi-Anechoic Chamber           | AUDIX                              | N/A               | SEM001-02     | 2018/3/13              | 2021/3/12                  |
| Spectrum Analyzer (20Hz-43GHz)     | Rohde & Schwarz                    | FSU43             | SEM004-08     | 2019/3/2               | 2020/3/1                   |
| BiConiLog Antenna (26-3000MHz)     | ETS-Lindgren                       | 3142C             | SEM003-01     | 2017/6/27              | 2020/6/26                  |
| Horn Antenna (800MHz-18GHz)        | Rohde & Schwarz                    | HF907             | SEM003-07     | 2018/4/13              | 2021/4/12                  |
| Horn Antenna (15-40GHz)            | Schwarzbeck                        | BBHA 9170         | SEM003-15     | 2017/10/17             | 2020/10/16                 |
| Amplifier(0.1-1300MHz)             | HP                                 | 8447D             | SEM005-02     | 2019/7/14              | 2020/7/14                  |
| Low Noise Amplifier (100MHz-18GHz) | Black Diamond Series               | BDLNA-0118-352810 | SEM005-05     | 2019/7/14              | 2020/7/14                  |
| Pre-Amplifier(0.1-26.5GHz)         | Compliance Directions Systems Inc. | PAP-0126          | EMC2063       | 2018/11/20             | 2019/11/19                 |
| Pre-amplifier(26-40GHz)            | Compliance Directions Systems Inc. | PAP-2640-50       | SEM005-08     | 2019/3/2               | 2020/3/1                   |
| Band filter                        | N/A                                | N/A               | N/A           | N/A                    | N/A                        |
| Measurement Software               | AUDIX                              | e3 V8.2014-6-27   | N/A           | N/A                    | N/A                        |
| Coaxial Cable                      | SGS                                | N/A               | SEM026-01     | 2019/6/12              | 2020/6/11                  |

## 7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/20031.

The End



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