

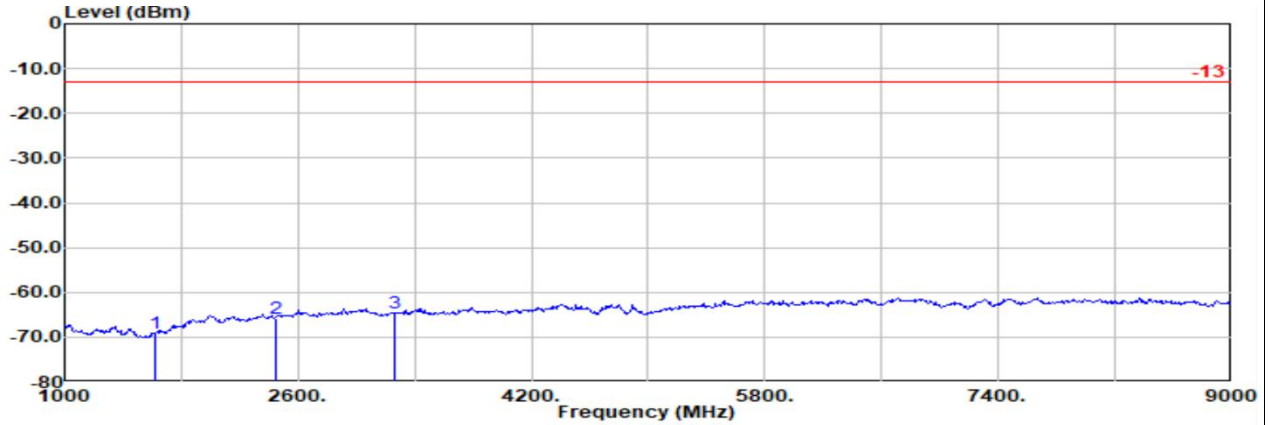


## NB-IoT

## Part 90S Mode 2

## NB-IoT B26 15k Ch26691 1RB11 BPSK

L

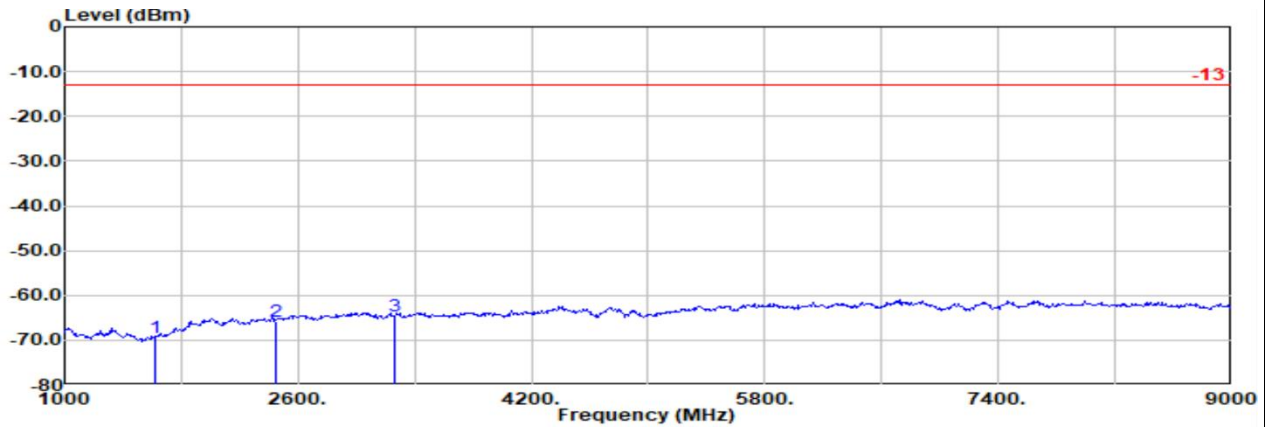


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 26 15k CH26691 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1624.00 | -69.24 | RMS      | 28.38      | -52.18 | 0.31   | -95.23 | 49.48    | -13.00 | -56.24 | Horizontal |
| 2 | 2442.00 | -65.69 | RMS      | 31.92      | -50.46 | 0.34   | -95.23 | 47.74    | -13.00 | -52.69 | Horizontal |
| 3 | 3256.00 | -64.55 | RMS      | 32.71      | -49.24 | 0.14   | -95.23 | 47.07    | -13.00 | -51.55 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 26 15k CH26691 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1624.00 | -69.33 | RMS      | 28.38      | -52.18 | 0.31   | -95.23 | 49.39    | -13.00 | -56.33 | Vertical |
| 2 | 2442.00 | -65.78 | RMS      | 31.92      | -50.46 | 0.34   | -95.23 | 47.65    | -13.00 | -52.78 | Vertical |
| 3 | 3256.00 | -64.68 | RMS      | 32.71      | -49.24 | 0.14   | -95.23 | 46.94    | -13.00 | -51.68 | Vertical |

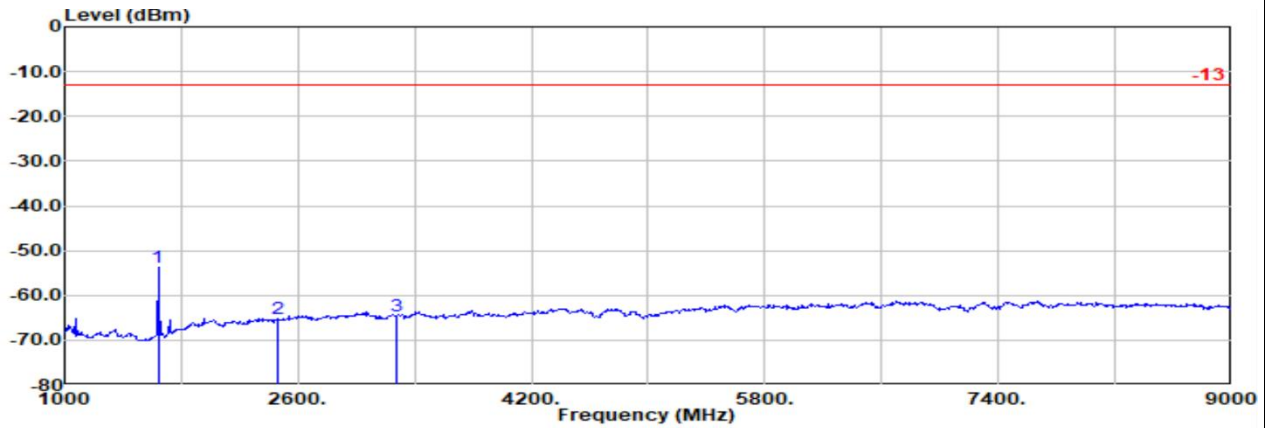


## NB-IoT

## Part 90S Mode 2

## NB-IoT B26 15k Ch26740 1RB11 BPSK

## M

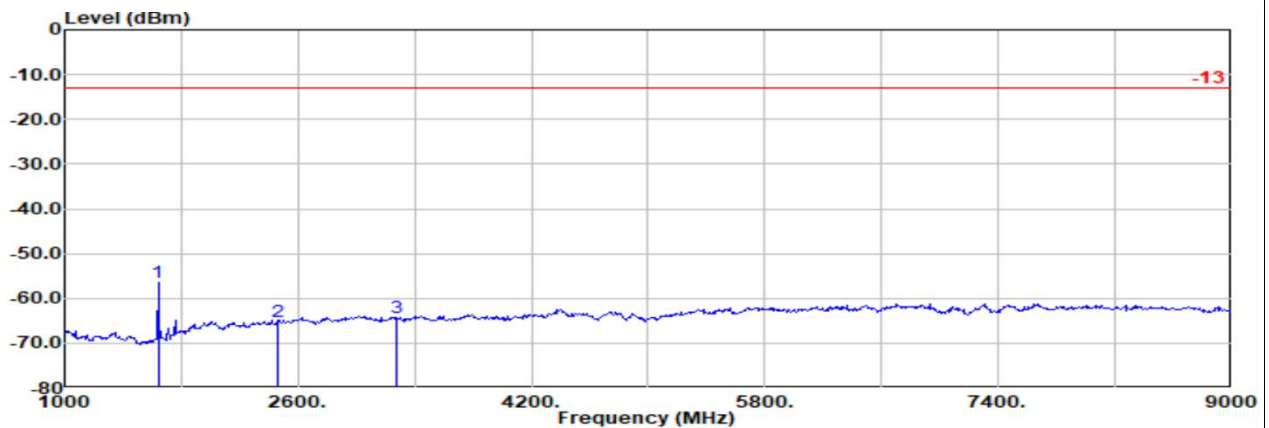


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 26 15k CH26740 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |            |
| 1 | 1640.00 | -53.77 | RMS      | 28.60      | -52.14 | 0.31     | -95.23 | 64.69    | -13.00 | -40.77 | Horizontal |
| 2 | 2457.00 | -65.32 | RMS      | 32.07      | -50.44 | 0.32     | -95.23 | 47.96    | -13.00 | -52.32 | Horizontal |
| 3 | 3276.00 | -64.54 | RMS      | 32.75      | -49.23 | 0.14     | -95.23 | 47.03    | -13.00 | -51.54 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 26 15k CH26740 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |          |
| 1 | 1640.00 | -56.33 | RMS      | 28.60      | -52.14 | 0.31     | -95.23 | 62.13    | -13.00 | -43.33 | Vertical |
| 2 | 2457.00 | -65.08 | RMS      | 32.07      | -50.44 | 0.32     | -95.23 | 48.20    | -13.00 | -52.08 | Vertical |
| 3 | 3276.00 | -64.43 | RMS      | 32.75      | -49.23 | 0.14     | -95.23 | 47.14    | -13.00 | -51.43 | Vertical |

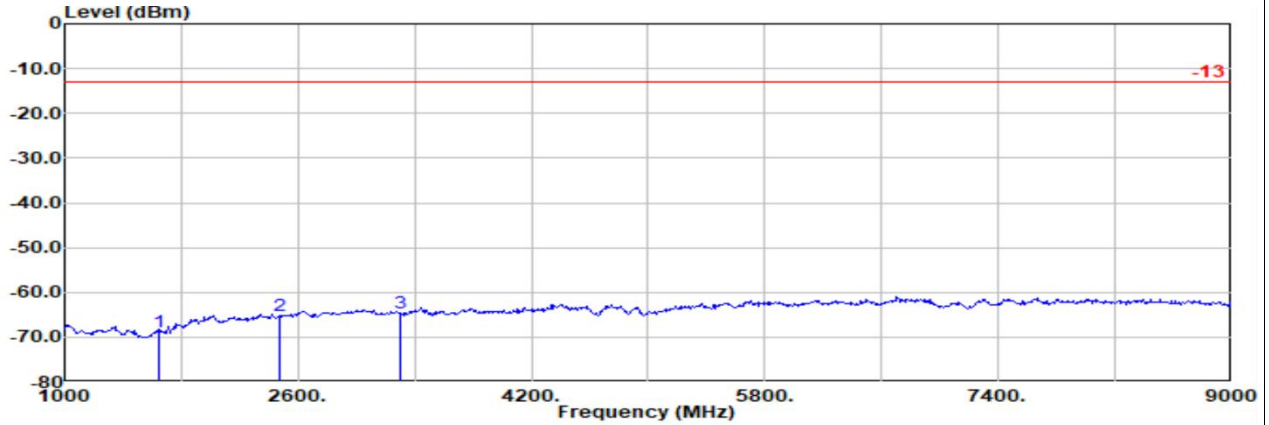


## NB-IoT

## Part 90S Mode 2

## NB-IoT B26 15k Ch26789 1RB11 BPSK

H

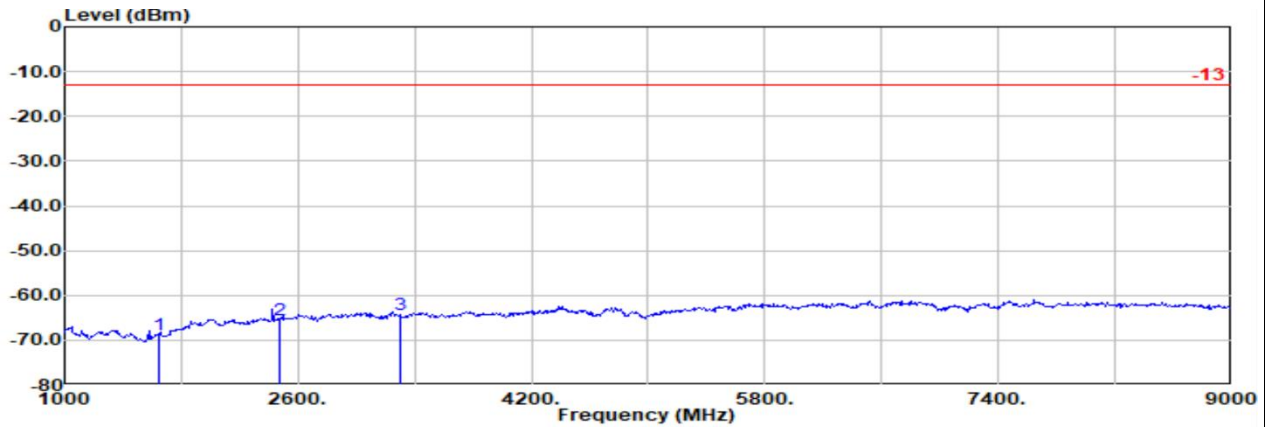


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 26 15k CH26789 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |            |
| 1 | 1648.00 | -68.75 | RMS      | 28.68      | -52.12 | 0.31     | -95.23 | 49.61    | -13.00 | -55.75 | Horizontal |
| 2 | 2472.00 | -65.24 | RMS      | 32.10      | -50.41 | 0.30     | -95.23 | 48.00    | -13.00 | -52.24 | Horizontal |
| 3 | 3296.00 | -64.64 | RMS      | 32.79      | -49.21 | 0.14     | -95.23 | 46.87    | -13.00 | -51.64 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 26 15k CH26789 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |          |
| 1 | 1648.00 | -68.71 | RMS      | 28.68      | -52.12 | 0.31     | -95.23 | 49.65    | -13.00 | -55.71 | Vertical |
| 2 | 2472.00 | -65.47 | RMS      | 32.10      | -50.41 | 0.30     | -95.23 | 47.77    | -13.00 | -52.47 | Vertical |
| 3 | 3296.00 | -64.44 | RMS      | 32.79      | -49.21 | 0.14     | -95.23 | 47.07    | -13.00 | -51.44 | Vertical |

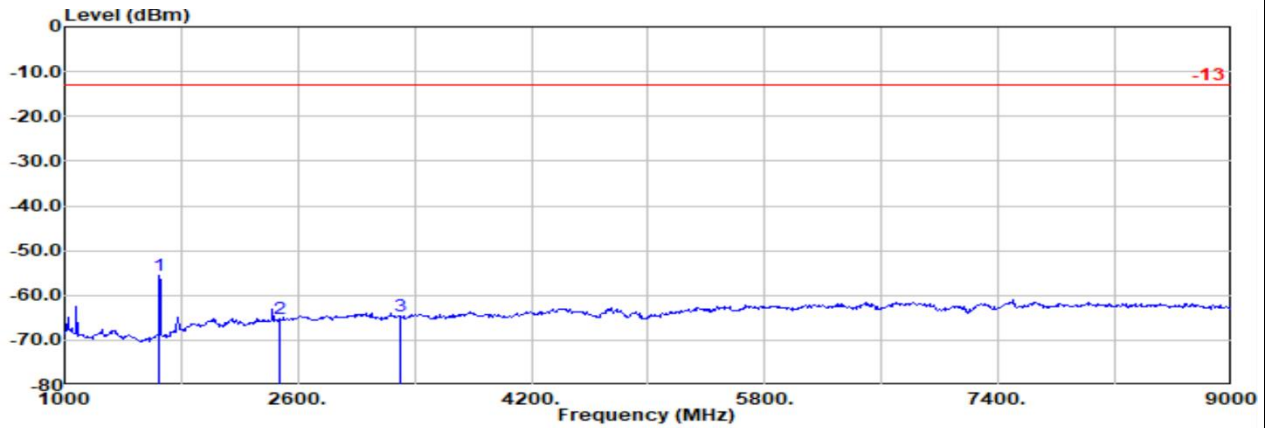


## NB-IoT

Part 90S Mode 8

NB-IoT B26 15k Ch26790 1RB0 QPSK

M

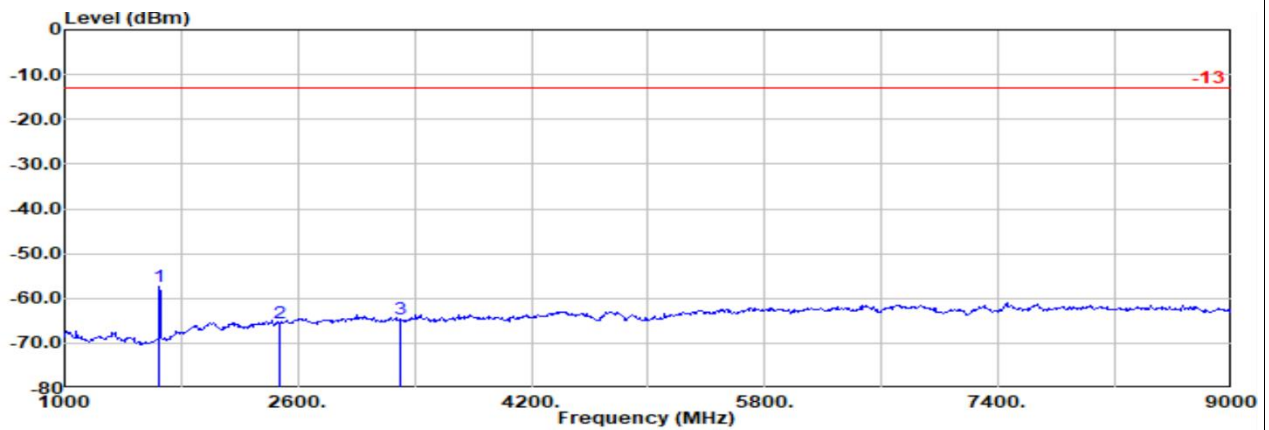


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 26 15k CH26790 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |            |
| 1 | 1648.00 | -55.43 | RMS      | 28.68      | -52.12 | 0.31     | -95.23 | 62.93    | -13.00 | -42.43 | Horizontal |
| 2 | 2472.00 | -65.20 | RMS      | 32.10      | -50.41 | 0.30     | -95.23 | 48.04    | -13.00 | -52.20 | Horizontal |
| 3 | 3296.00 | -64.64 | RMS      | 32.79      | -49.21 | 0.14     | -95.23 | 46.87    | -13.00 | -51.64 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 26 15k CH26790 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |          |        |          |        |        |          |
| 1 | 1648.00 | -57.27 | RMS      | 28.68      | -52.12 | 0.31     | -95.23 | 61.09    | -13.00 | -44.27 | Vertical |
| 2 | 2472.00 | -65.57 | RMS      | 32.10      | -50.41 | 0.30     | -95.23 | 47.67    | -13.00 | -52.57 | Vertical |
| 3 | 3296.00 | -64.74 | RMS      | 32.79      | -49.21 | 0.14     | -95.23 | 46.77    | -13.00 | -51.74 | Vertical |

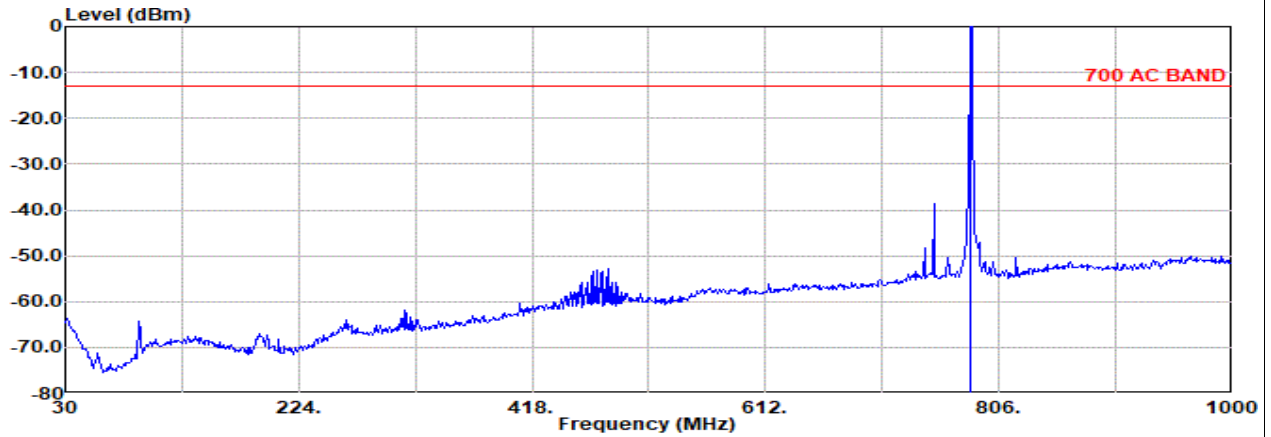


## NB-IoT

Part 27F Mode 4

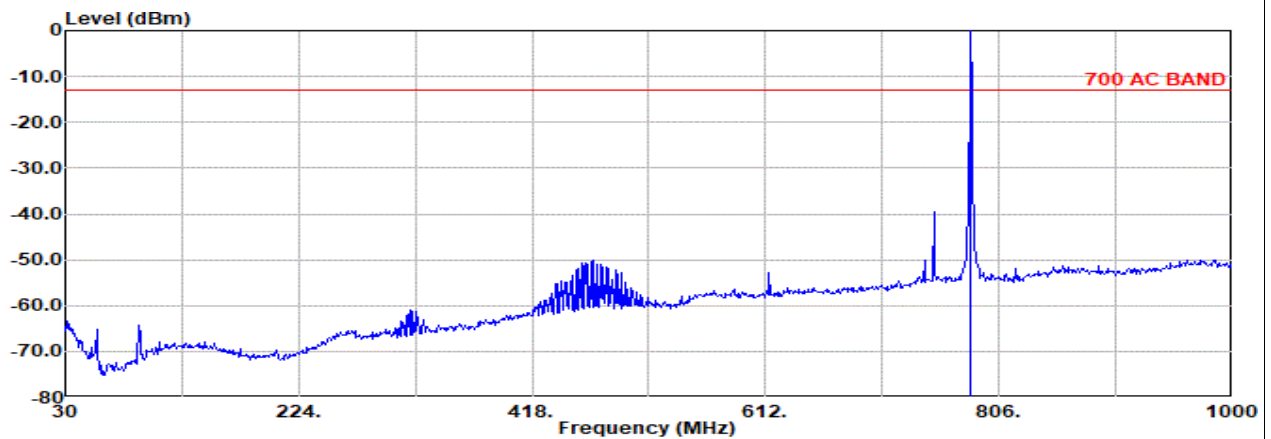
LTE B13 15k Ch23230 1RB0 BPSK

M



Site : 03CH07-HY  
Condition: 700 AC BAND 3m Bilog\_35419 Horizontal  
Mode : NBIOT Band 13 15K CH23230 1RB0 BPSK  
: #1 is fundamental signal which can be ignored.

|   | Freq   | Level | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin | Limit | Margin Pol |                  |
|---|--------|-------|----------|-------------------|------|--------|--------|-------|------------|------------------|
|   |        |       |          | Factor            | 1    |        |        |       |            |                  |
|   | MHz    | dBm   |          | dB/m              | dB   | dB     | dBuV   | dBm   | dB         |                  |
| 1 | 782.72 | 24.08 | RMS      | 27.80             | 4.96 | 0.00   | -95.23 | 86.55 | -13.00     | 37.08 Horizontal |



Site : 03CH07-HY  
Condition: 700 AC BAND 3m Bilog\_35419 Vertical  
Mode : NBIOT Band 13 15K CH23230 1RB0 BPSK  
: #1 is fundamental signal which can be ignored.

|   | Freq   | Level | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin | Limit | Margin Pol |                |
|---|--------|-------|----------|-------------------|------|--------|--------|-------|------------|----------------|
|   |        |       |          | Factor            | 1    |        |        |       |            |                |
|   | MHz    | dBm   |          | dB/m              | dB   | dB     | dBuV   | dBm   | dB         |                |
| 1 | 782.72 | 19.93 | RMS      | 27.80             | 4.96 | 0.00   | -95.23 | 82.40 | -13.00     | 32.93 Vertical |

Remark: #1 is fundamental signal which can be ignored.

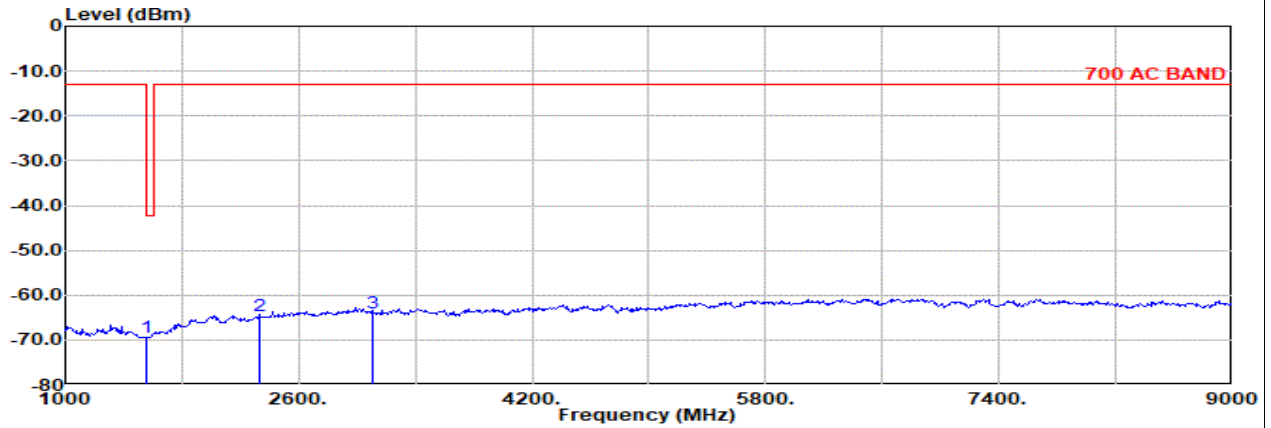


## NB-IoT

## Part 27F Mode 5

NB-IoTB13 15K Ch23181 1RB0 BPSK

L

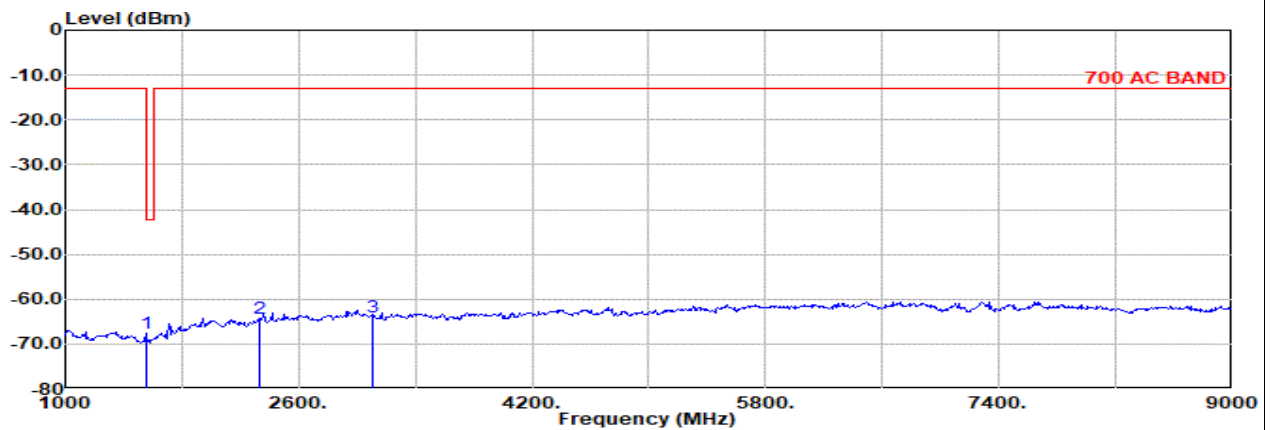


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 13 15K CH23181 1RB0 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 1552.00 | -69.46 | RMS      | 27.62      | -52.36 | 0.34   | -95.23 | 50.17  | -13.00 | -56.46 | Horizontal |
| 2 | 2328.00 | -64.73 | RMS      | 32.10      | -50.67 | 0.32   | -95.23 | 48.75  | -13.00 | -51.73 | Horizontal |
| 3 | 3112.00 | -63.98 | RMS      | 32.65      | -49.33 | 0.18   | -95.23 | 47.75  | -13.00 | -50.98 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 13 15K CH23181 1RB0 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 1552.00 | -67.58 | RMS      | 27.62      | -52.36 | 0.34   | -95.23 | 52.05  | -13.00 | -54.58 | Vertical |
| 2 | 2328.00 | -64.38 | RMS      | 32.10      | -50.67 | 0.32   | -95.23 | 49.10  | -13.00 | -51.38 | Vertical |
| 3 | 3112.00 | -63.94 | RMS      | 32.65      | -49.33 | 0.18   | -95.23 | 47.79  | -13.00 | -50.94 | Vertical |

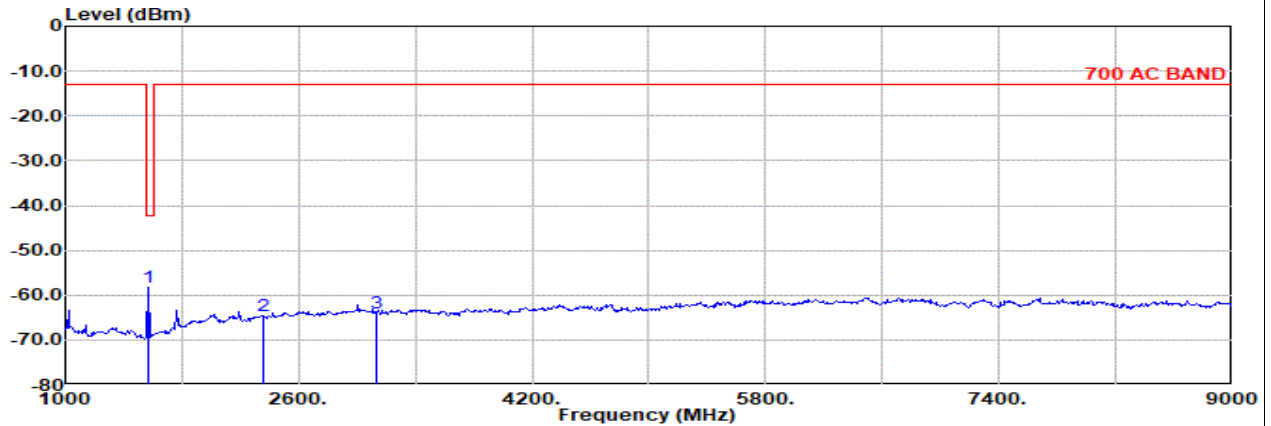


## NB-IoT

## Part 27F Mode 5

NB-IoTB13 15K Ch23230 1RB0 BPSK

M

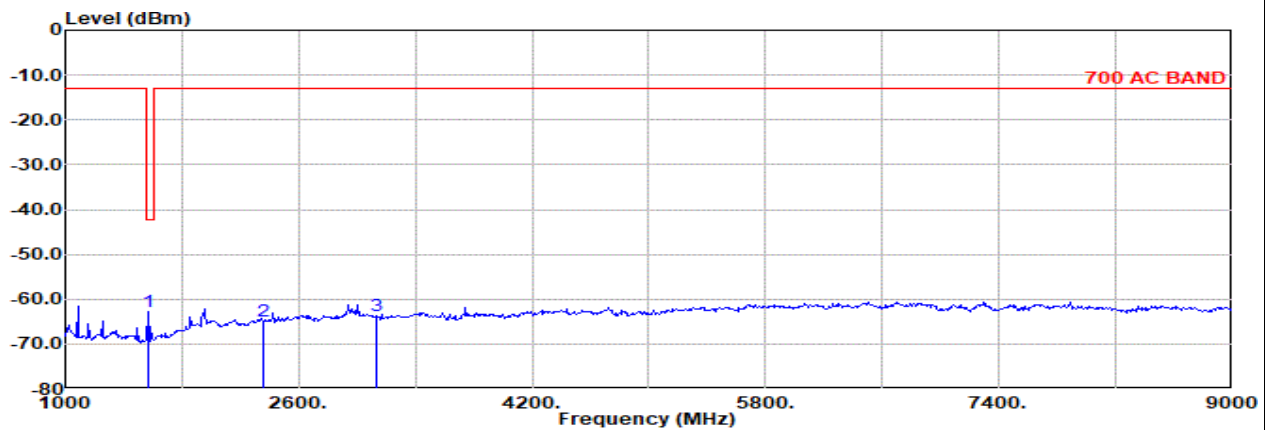


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 13 15K CH23230 1RB0 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          |            |        |        |        | g      |        |        |            |
| 1 | 1568.00 | -58.24 | RMS      | 27.70      | -52.32 | 0.33   | -95.23 | 61.28  | -42.15 | -16.09 | Horizontal |
| 2 | 2352.00 | -64.62 | RMS      | 32.08      | -50.62 | 0.34   | -95.23 | 48.81  | -13.00 | -51.62 | Horizontal |
| 3 | 3128.00 | -64.00 | RMS      | 32.59      | -49.32 | 0.17   | -95.23 | 47.79  | -13.00 | -51.00 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 13 15K CH23230 1RB0 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          |            |        |        |        | g      |        |        |          |
| 1 | 1568.00 | -62.75 | RMS      | 27.70      | -52.32 | 0.33   | -95.23 | 56.77  | -42.15 | -20.60 | Vertical |
| 2 | 2352.00 | -64.89 | RMS      | 32.08      | -50.62 | 0.34   | -95.23 | 48.54  | -13.00 | -51.89 | Vertical |
| 3 | 3128.00 | -63.78 | RMS      | 32.59      | -49.32 | 0.17   | -95.23 | 48.01  | -13.00 | -50.78 | Vertical |

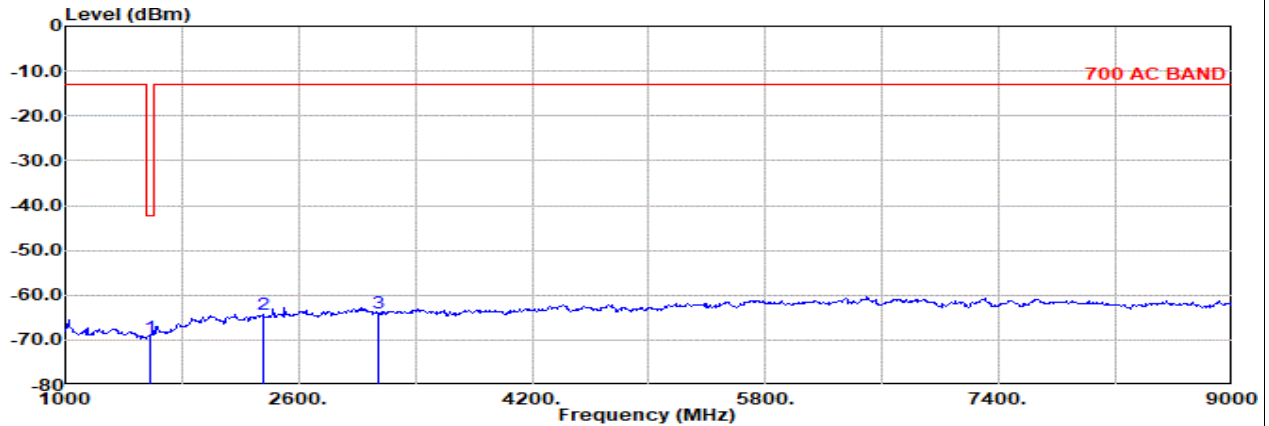


## NB-IoT

## Part 27F Mode 5

NB-IoTB13 15K Ch23279 1RB0 BPSK

H

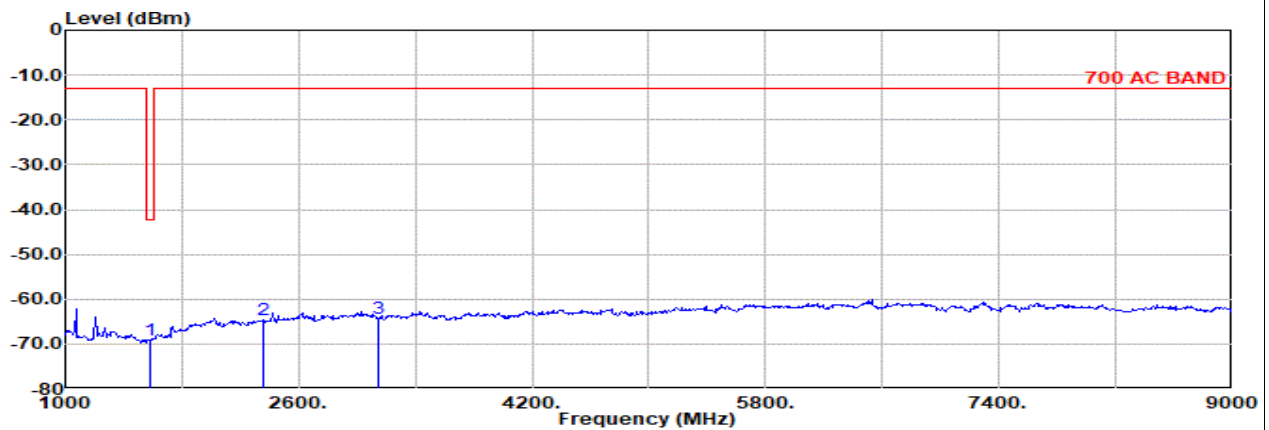


Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 13 15K CH23279 1RB0 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 1576.00 | -69.47 | RMS      | 27.70      | -52.30 | 0.32   | -95.23 | 50.04  | -42.15 | -27.32 | Horizontal |
| 2 | 2360.00 | -64.42 | RMS      | 32.00      | -50.61 | 0.35   | -95.23 | 49.07  | -13.00 | -51.42 | Horizontal |
| 3 | 3144.00 | -64.11 | RMS      | 32.52      | -49.32 | 0.16   | -95.23 | 47.76  | -13.00 | -51.11 | Horizontal |



Site : 03CH07-HY

Condition: 700 AC BAND 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 13 15K CH23279 1RB0 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 1576.00 | -69.13 | RMS      | 27.70      | -52.30 | 0.32   | -95.23 | 50.38  | -42.15 | -26.98 | Vertical |
| 2 | 2360.00 | -64.64 | RMS      | 32.00      | -50.61 | 0.35   | -95.23 | 48.85  | -13.00 | -51.64 | Vertical |
| 3 | 3144.00 | -64.34 | RMS      | 32.52      | -49.32 | 0.16   | -95.23 | 47.53  | -13.00 | -51.34 | Vertical |

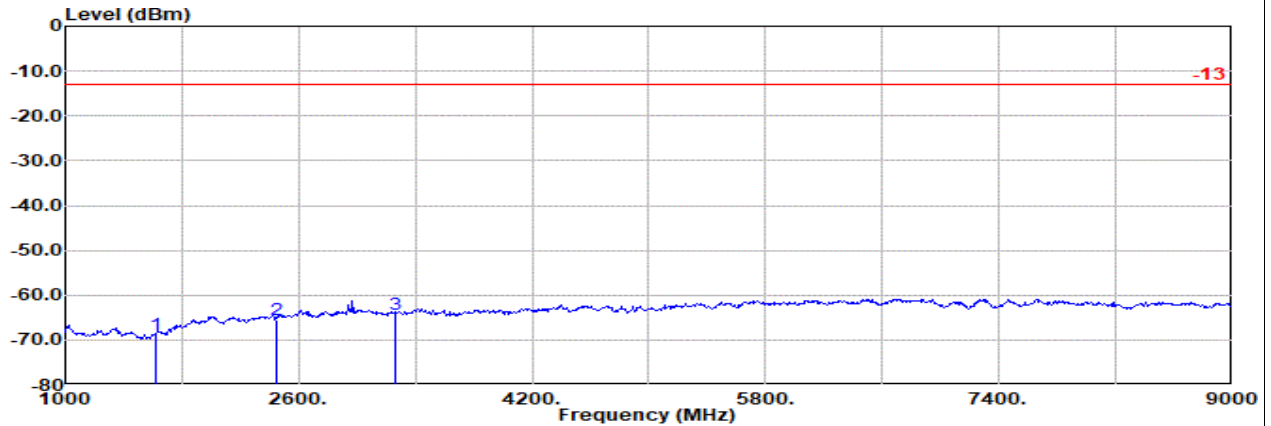


## NB-IoT

Part 90S Mode 9

NB-IoT B26 15K Ch26691 1RB11 BPSK

L

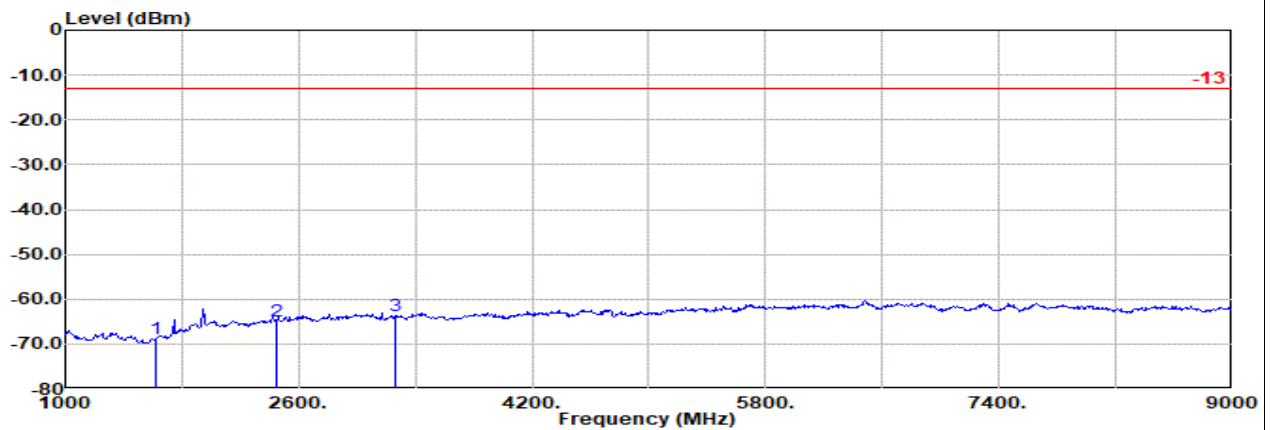


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 26 15k CH26691 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB       | dB     | dBuV     | dBm    | dB     |            |
| 1 | 1624.00 | -68.87 | RMS      | 28.38      | -52.18 | 0.31     | -95.23 | 49.85    | -13.00 | -55.87 | Horizontal |
| 2 | 2442.00 | -65.38 | RMS      | 31.92      | -50.46 | 0.34     | -95.23 | 48.05    | -13.00 | -52.38 | Horizontal |
| 3 | 3256.00 | -64.20 | RMS      | 32.71      | -49.24 | 0.14     | -95.23 | 47.42    | -13.00 | -51.20 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 26 15k CH26691 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB     | dB       | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1624.00 | -68.81 | RMS      | 28.38      | -52.18 | 0.31     | -95.23 | 49.91    | -13.00 | -55.81 | Vertical |
| 2 | 2442.00 | -64.93 | RMS      | 31.92      | -50.46 | 0.34     | -95.23 | 48.50    | -13.00 | -51.93 | Vertical |
| 3 | 3256.00 | -63.83 | RMS      | 32.71      | -49.24 | 0.14     | -95.23 | 47.79    | -13.00 | -50.83 | Vertical |

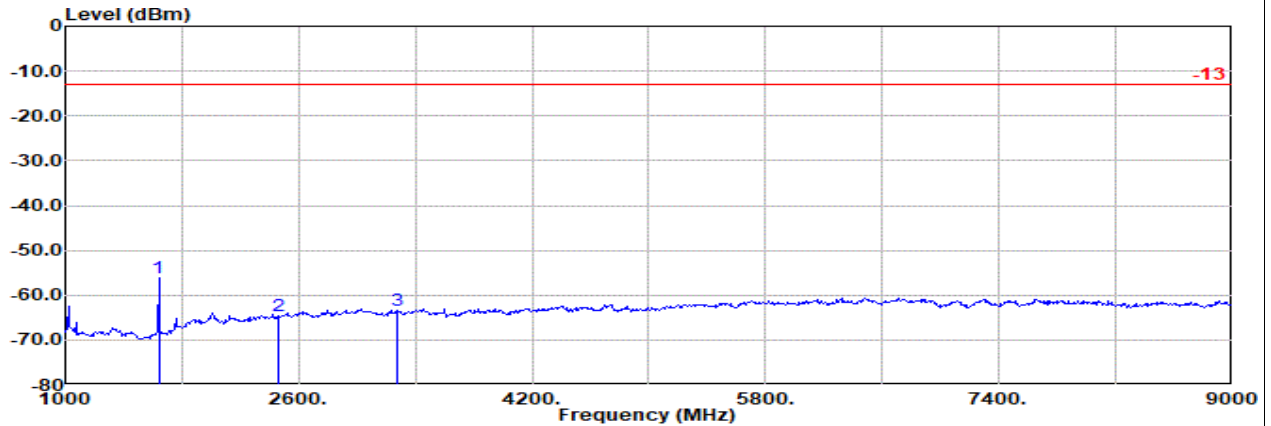


## NB-IoT

Part 90S Mode 9

NB-IoT B26 15K Ch26740 1RB11 BPSK

M

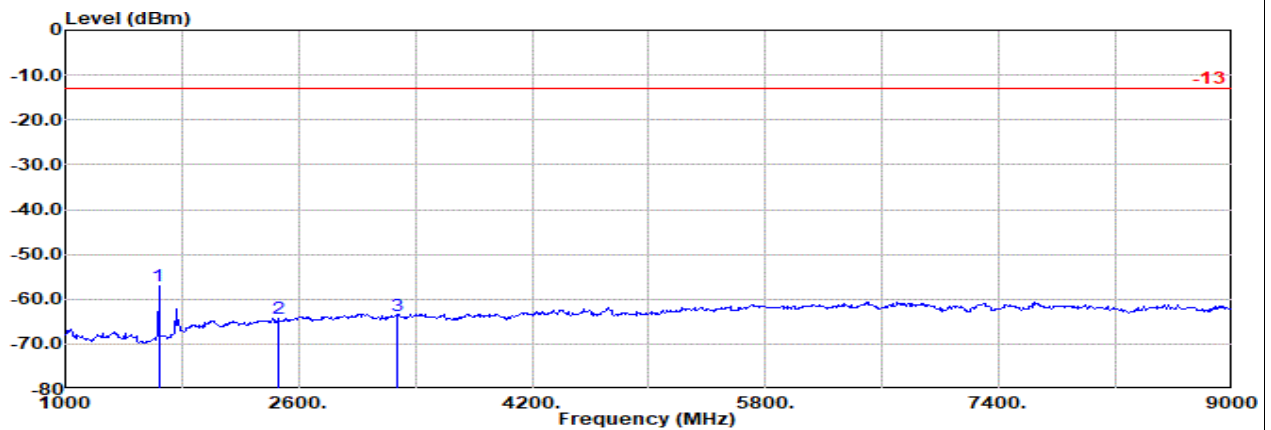


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 26 15k CH26740 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB/m   | dB     | dB     | dB     | dBuV   | dBm    | dB         |
| 1 | 1640.00 | -56.12 | RMS      | 28.60      | -52.14 | 0.31   | -95.23 | 62.34  | -13.00 | -43.12 | Horizontal |
| 2 | 2457.00 | -64.72 | RMS      | 32.07      | -50.44 | 0.32   | -95.23 | 48.56  | -13.00 | -51.72 | Horizontal |
| 3 | 3276.00 | -63.41 | RMS      | 32.75      | -49.23 | 0.14   | -95.23 | 48.16  | -13.00 | -50.41 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 26 15k CH26740 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB/m   | dB     | dB     | dB     | dBuV   | dBm    | dB       |
| 1 | 1640.00 | -56.99 | RMS      | 28.60      | -52.14 | 0.31   | -95.23 | 61.47  | -13.00 | -43.99 | Vertical |
| 2 | 2457.00 | -64.23 | RMS      | 32.07      | -50.44 | 0.32   | -95.23 | 49.05  | -13.00 | -51.23 | Vertical |
| 3 | 3276.00 | -63.83 | RMS      | 32.75      | -49.23 | 0.14   | -95.23 | 47.74  | -13.00 | -50.83 | Vertical |

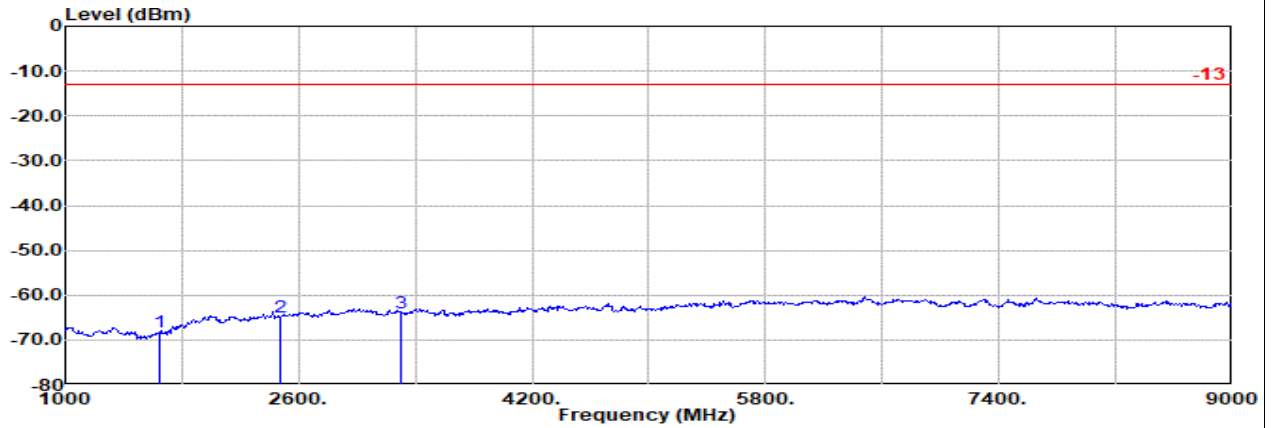


## NB-IoT

Part 90S Mode 9

NB-IoT B26 15K Ch26789 1RB11 BPSK

H

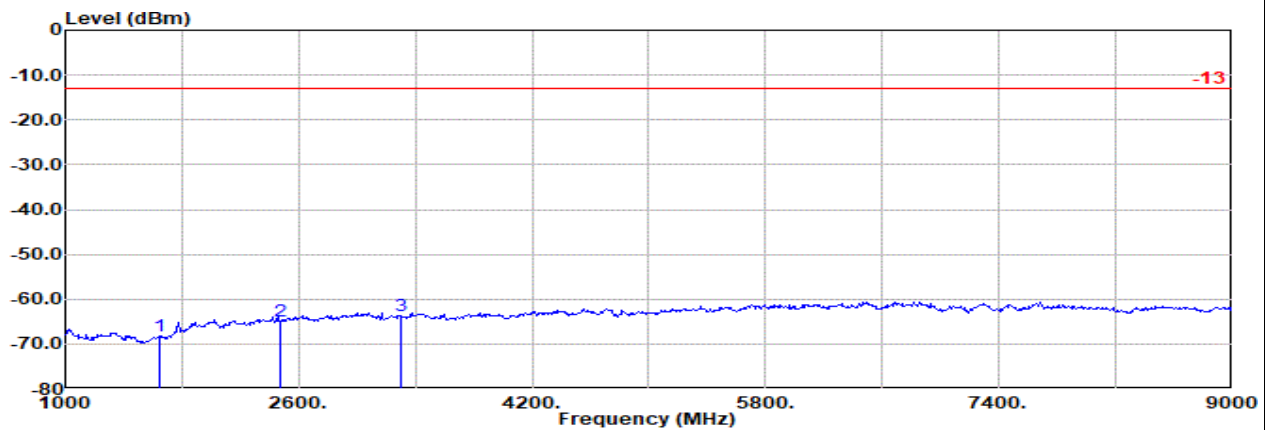


Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Horizontal

Mode : NBIOT Band 26 15k CH26789 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 1648.00 | -68.32 | RMS      | 28.68      | -52.12 | 0.31   | -95.23 | 50.04  | -13.00 | -55.32 | Horizontal |
| 2 | 2472.00 | -64.87 | RMS      | 32.10      | -50.41 | 0.30   | -95.23 | 48.37  | -13.00 | -51.87 | Horizontal |
| 3 | 3296.00 | -63.98 | RMS      | 32.79      | -49.21 | 0.14   | -95.23 | 47.53  | -13.00 | -50.98 | Horizontal |



Site : 03CH07-HY

Condition: -13 3m HF\_ANT\_00075962 Vertical

Mode : NBIOT Band 26 15k CH26789 1RB11 BPSK

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|--------|--------|--------|--------|--------|--------|----------|
|   | MHz     | dBm    |          |            | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 1648.00 | -68.37 | RMS      | 28.68      | -52.12 | 0.31   | -95.23 | 49.99  | -13.00 | -55.37 | Vertical |
| 2 | 2472.00 | -64.81 | RMS      | 32.10      | -50.41 | 0.30   | -95.23 | 48.43  | -13.00 | -51.81 | Vertical |
| 3 | 3296.00 | -63.85 | RMS      | 32.79      | -49.21 | 0.14   | -95.23 | 47.66  | -13.00 | -50.85 | Vertical |