

## 14 SPURIOUS RADIATED EMISSION TEST

### 14.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300               |
| 0.490-1.705     | 24000/F(kHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

**Note:**

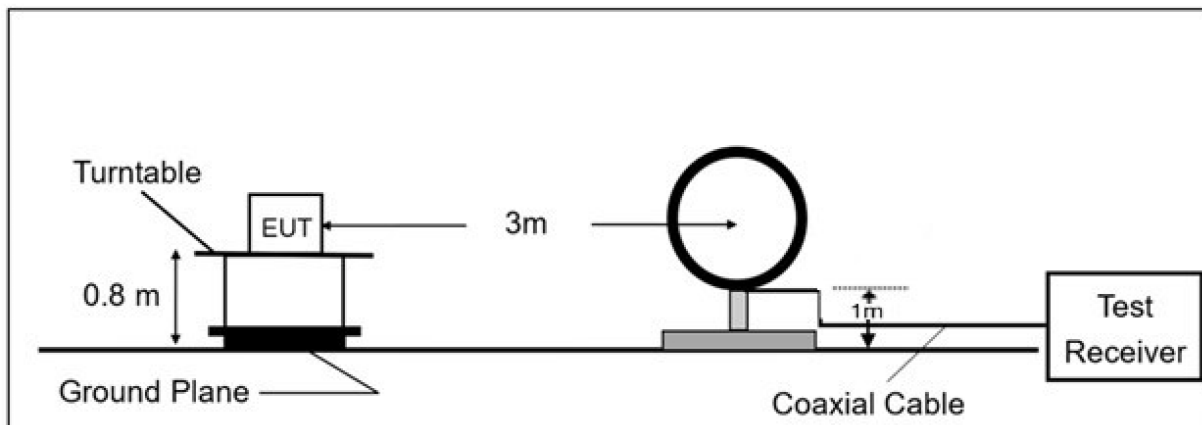
1. The lower limit shall apply at the transition frequencies.

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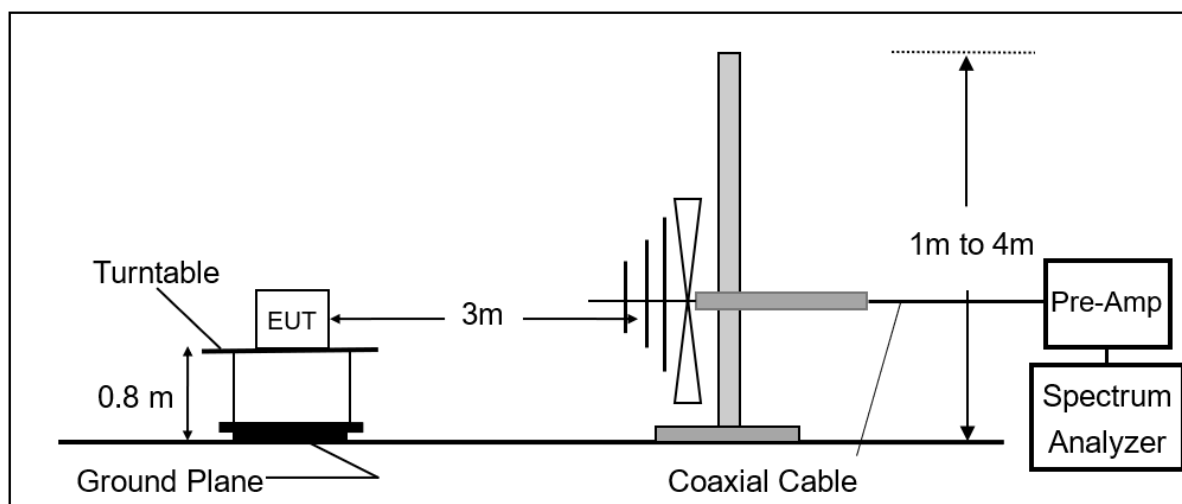
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## 14.2 Test Setup

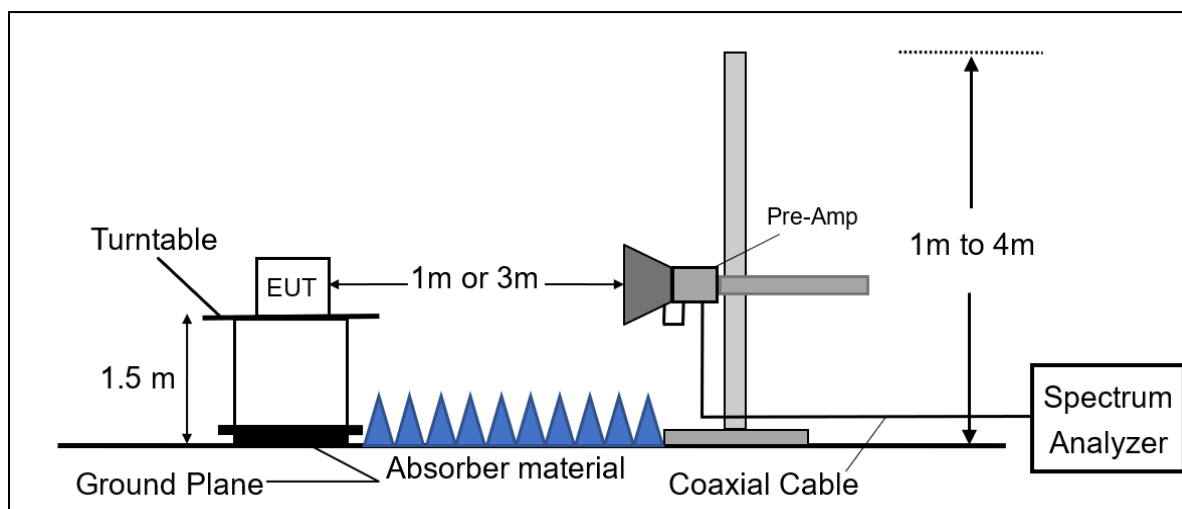
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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### 14.3 Measurement Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor  $20 \log(T_{on}/100ms)$ .
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

### 14.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|       |                        |                                            |
|-------|------------------------|--------------------------------------------|
| Where | FS = Field Strength    | CL = Cable Attenuation Factor (Cable Loss) |
|       | RA = Reading Amplitude | AG = Amplifier Gain                        |
|       | AF = Antenna Factor    |                                            |

The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

### 14.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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## 14.6 AVG Duty Cycle Factor calculation

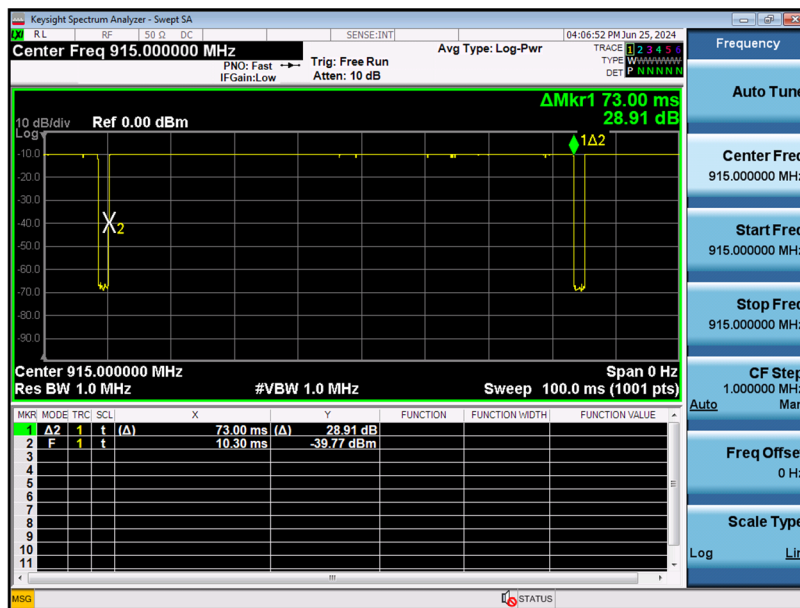
## Bluetooth 1M

Time ON of 100ms: 73.000 ms

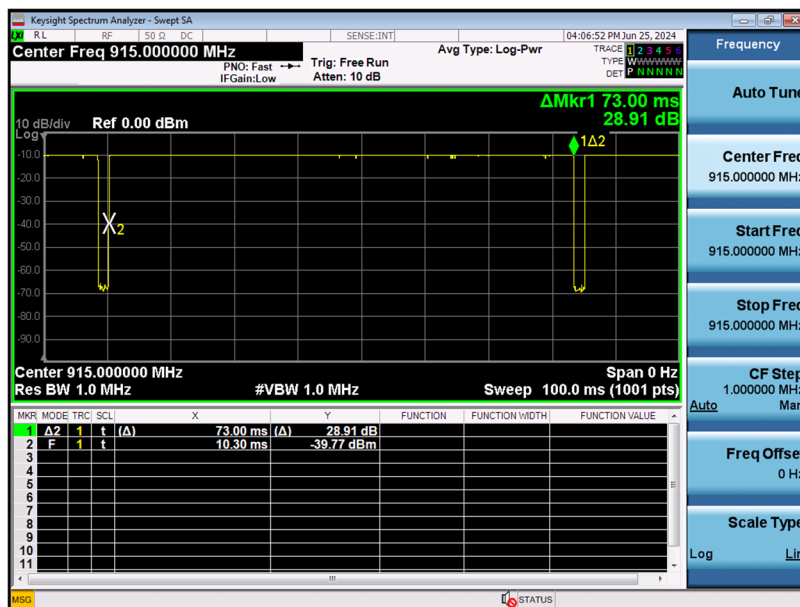
$$\text{Duty Cycle} = 73\text{ms} / 100\text{ms} = 0.73$$

Duty Cycle correction factor =  $20 \text{ LOG } 0.73 = -2.73 \text{ dB}$

## Internal antenna



## External antenna



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**14.7 Measurement Result:****14.7.1 Main Result****Internal antenna**

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode : FSK 50Kbps

Test Date :2024-07-04

Test Frequency :915 MHz

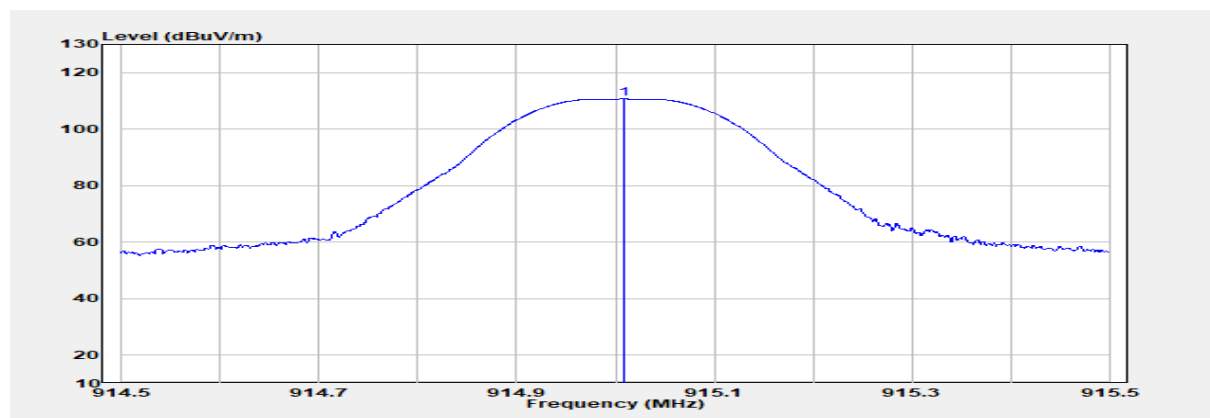
Temp./Humi. :22.4°C/54%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 915.008      | Peak                         | 115.99                                  | -5.32        | 110.68                       | -                            | -            |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode : FSK 50Kbps

Test Date :2024-07-04

Test Frequency :915 MHz

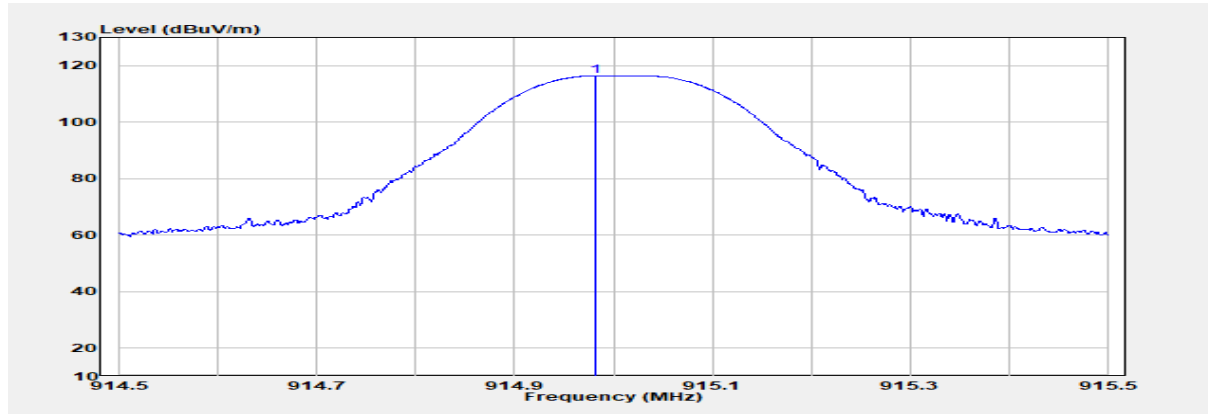
Temp./Humi. :22.4°C/54%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 914.981 | Peak     | 121.67        | -5.32  | 116.35 | -      | -      |

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**External antenna**

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode : FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

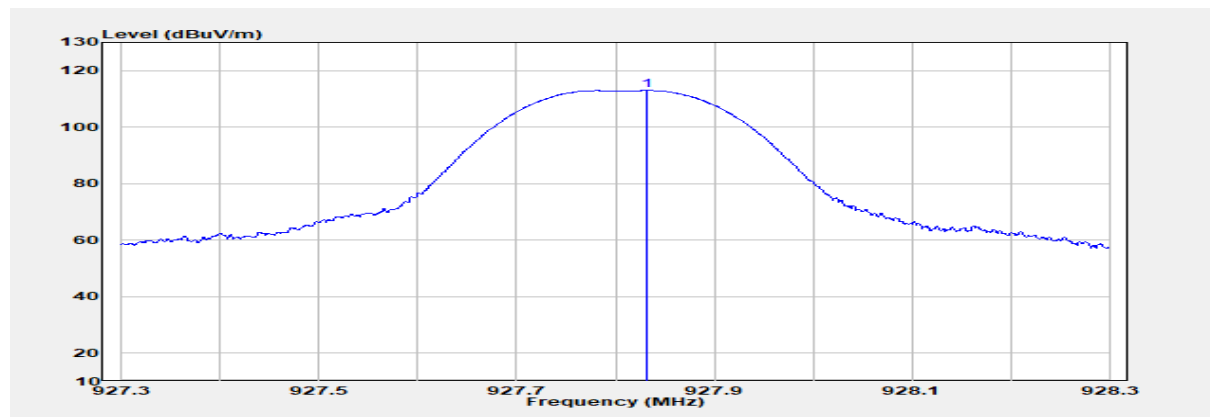
Temp./Humi. :22.4°C/54%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 927.832 | Peak     | 117.82        | -4.86  | 112.97 | -      | -      |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

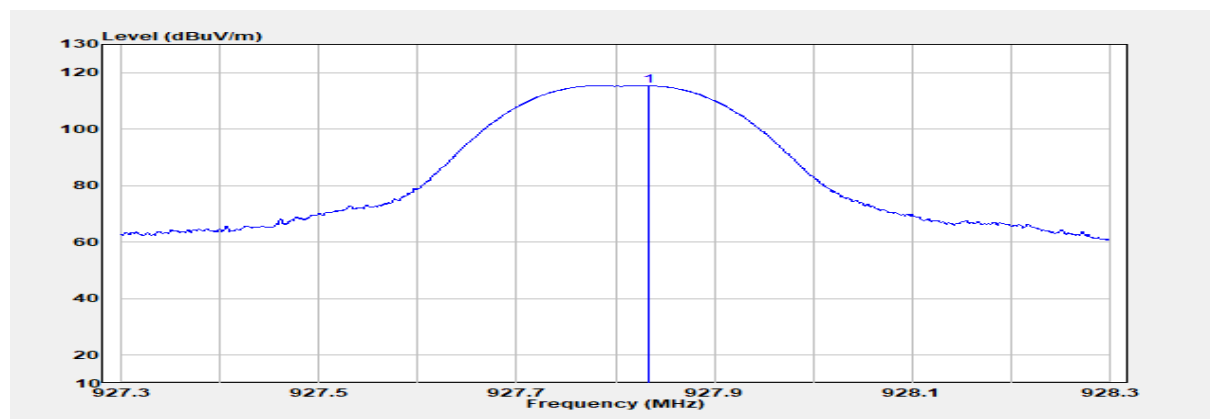
Temp./Humi. :22.4°C/54%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 927.833 | Peak     | 120.19        | -4.86  | 115.33 | -      | -      |

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### 14.7.2 Bandedge Result

#### Internal antenna

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

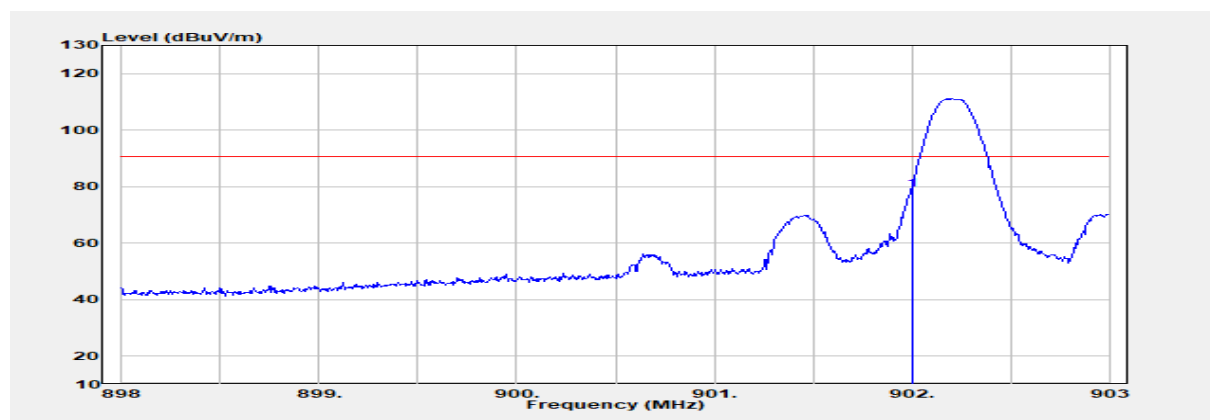
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 902.000 | Peak     | 84.90         | -5.82  | 79.08        | 90.68        | -11.60 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

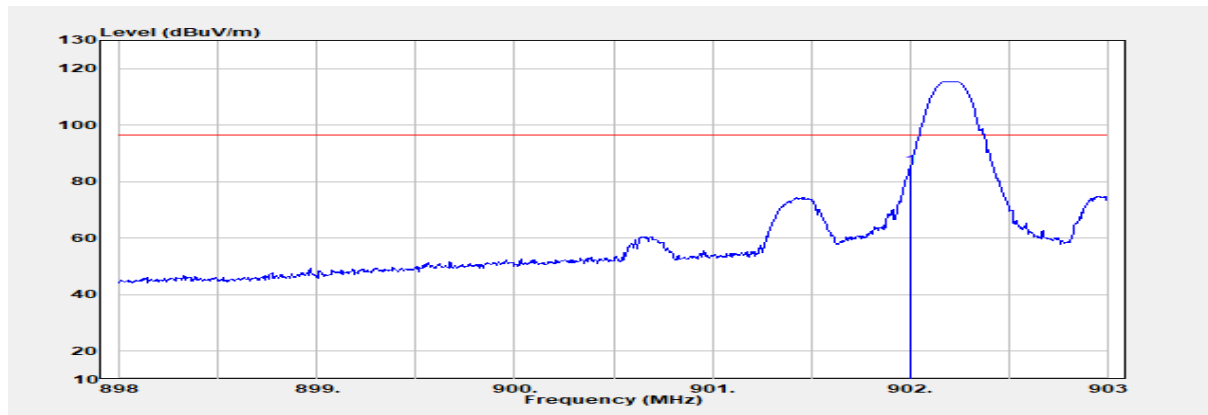
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 902.000 | Peak     | 91.14         | -5.82  | 85.32  | 96.35  | -11.03 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

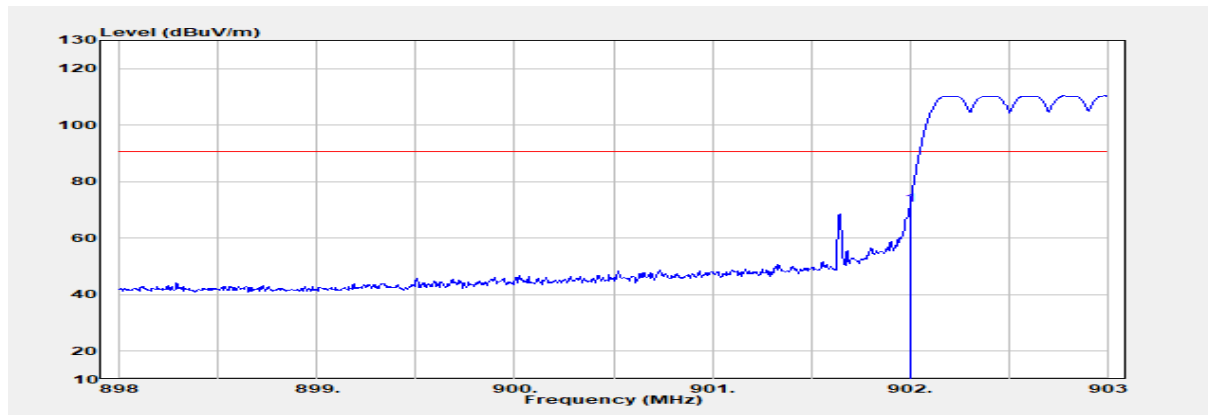
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 902.000      | Peak                         | 77.49                             | -5.82        | 71.67                  | 90.68                  | -19.01       |

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Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

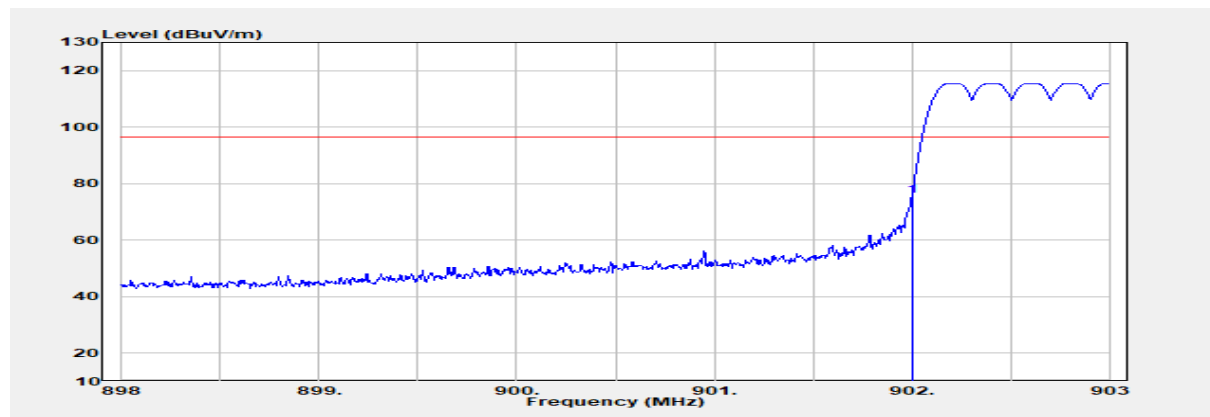
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 902.000 | Peak     | 81.52         | -5.82  | 75.70  | 96.35  | -20.65 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

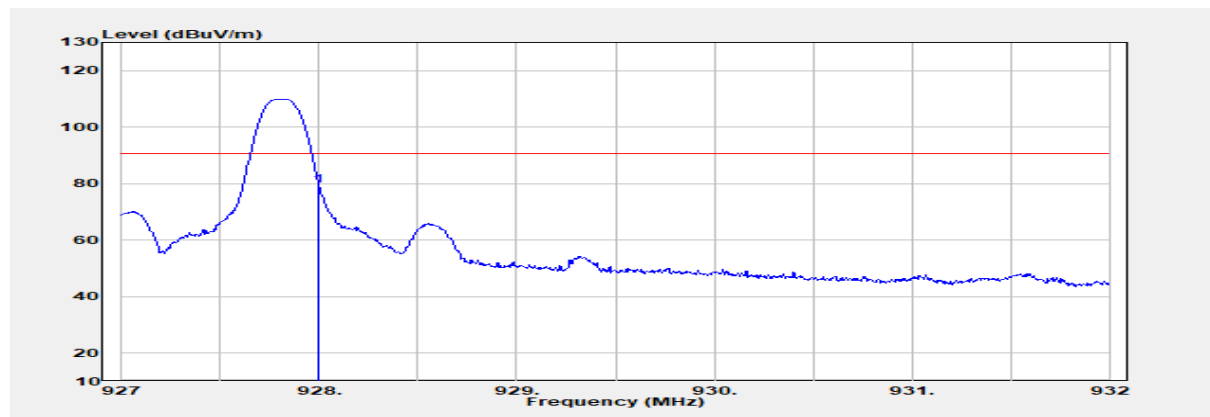
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 928.000      | Peak                         | 84.01                                   | -4.86        | 79.15                        | 90.68                        | -11.53       |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

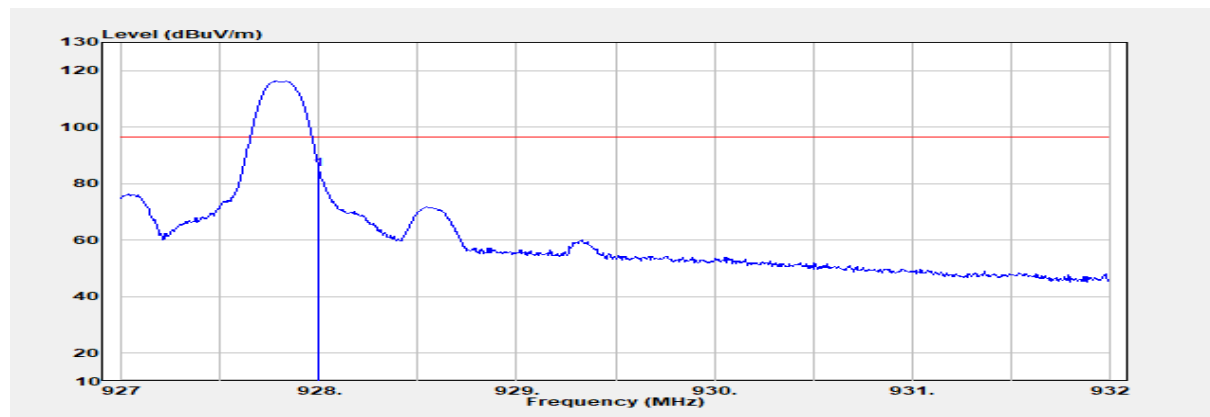
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 928.000      | Peak                         | 90.05                                   | -4.86        | 85.19                        | 96.35                        | -11.16       |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

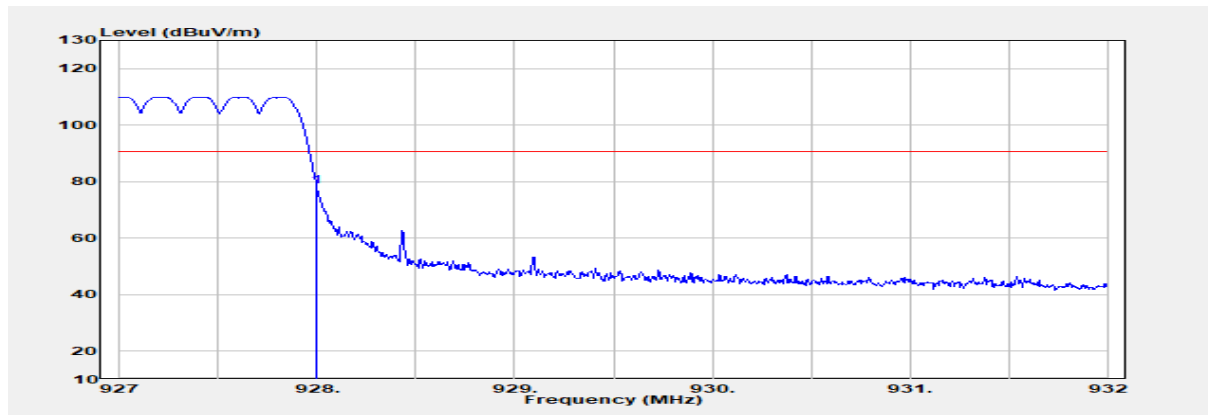
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 928.000 | Peak     | 83.27         | -4.86  | 78.41  | 90.68  | -12.27 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

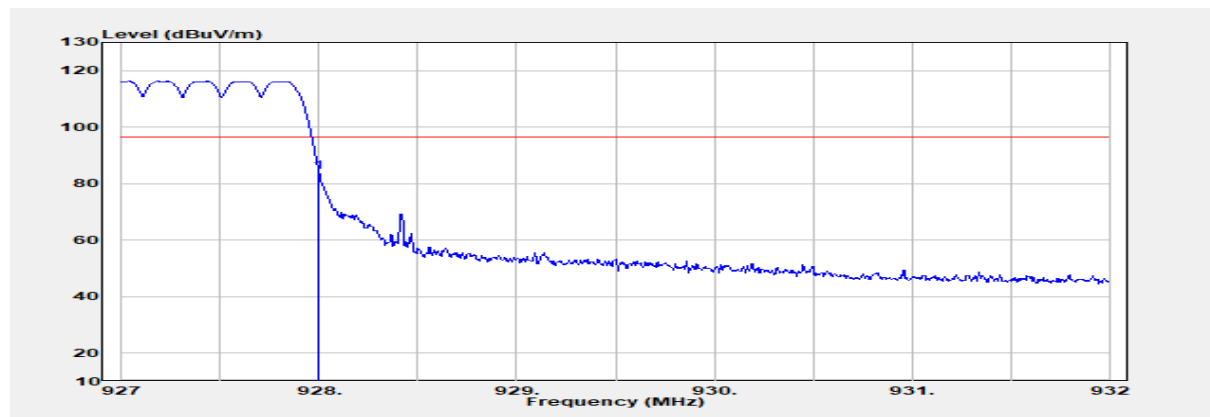
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 928.000      | Peak                         | 89.16                                   | -4.86        | 84.30                        | 96.35                        | -12.05       |

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**External antenna**

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

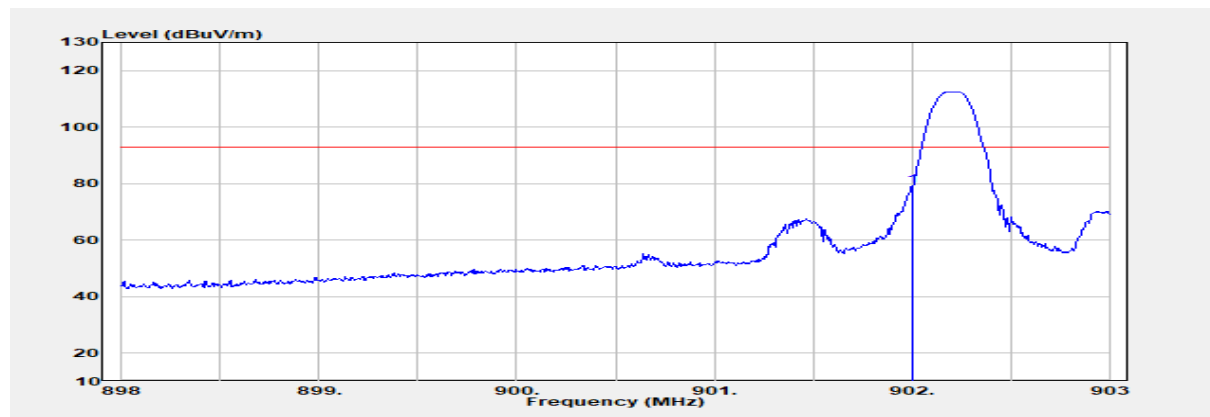
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 902.000 | Peak     | 85.08         | -5.82  | 79.26  | 92.97  | -13.71 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

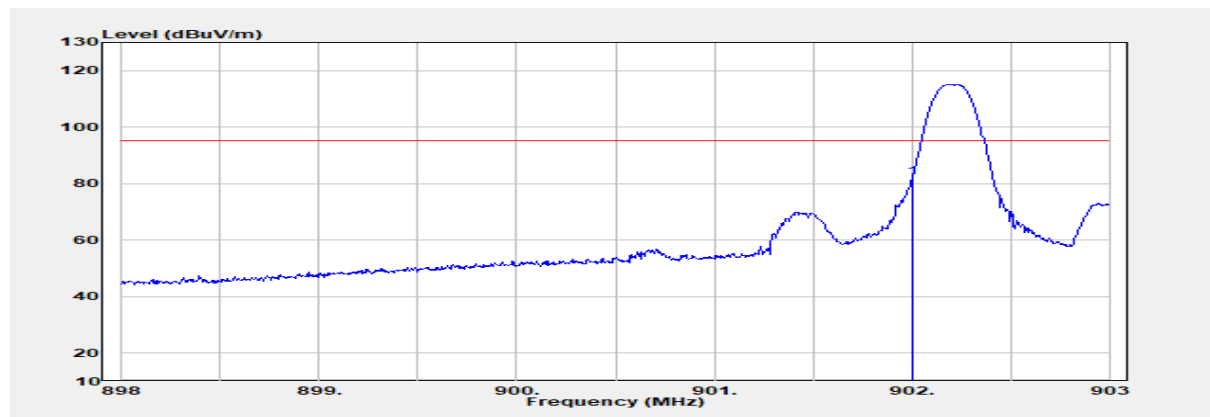
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 902.000 | Peak     | 88.10         | -5.82  | 82.28  | 95.33  | -13.05 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

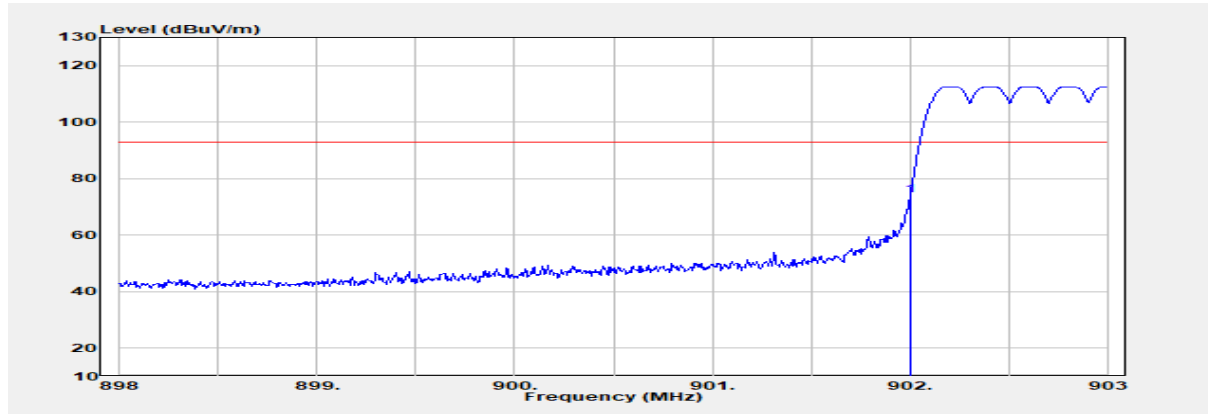
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 902.000 | Peak     | 79.90         | -5.82  | 74.08  | 92.97  | -18.89 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :902.2 MHz

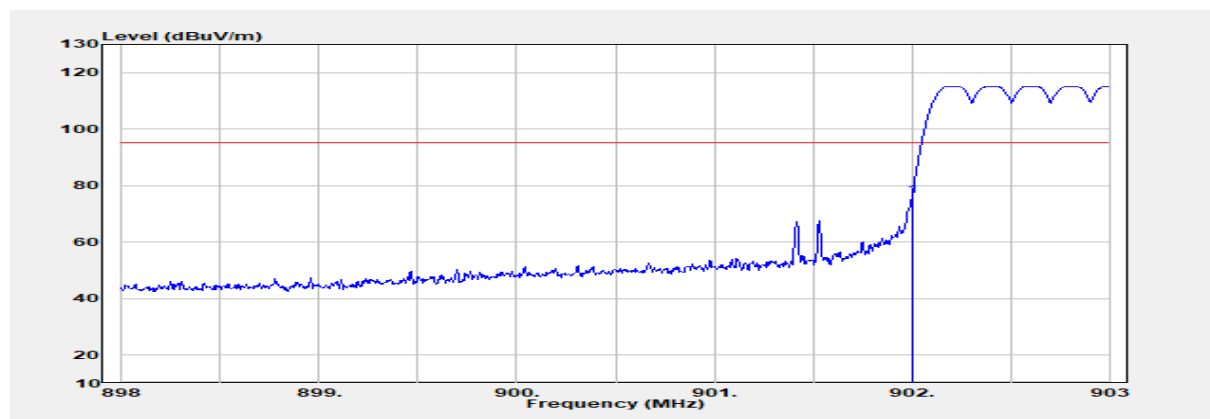
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 902.000 | Peak     | 82.22         | -5.82  | 76.39  | 95.33  | -18.94 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

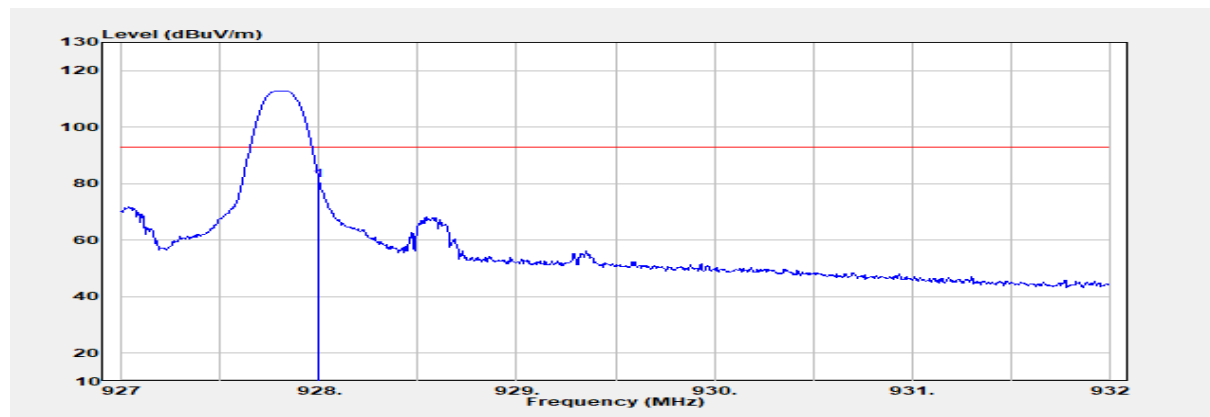
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level |        | FS           | @3m          |        |
|         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 928.000 | Peak     | 86.08         | -4.86  | 81.22        | 92.97        | -11.75 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

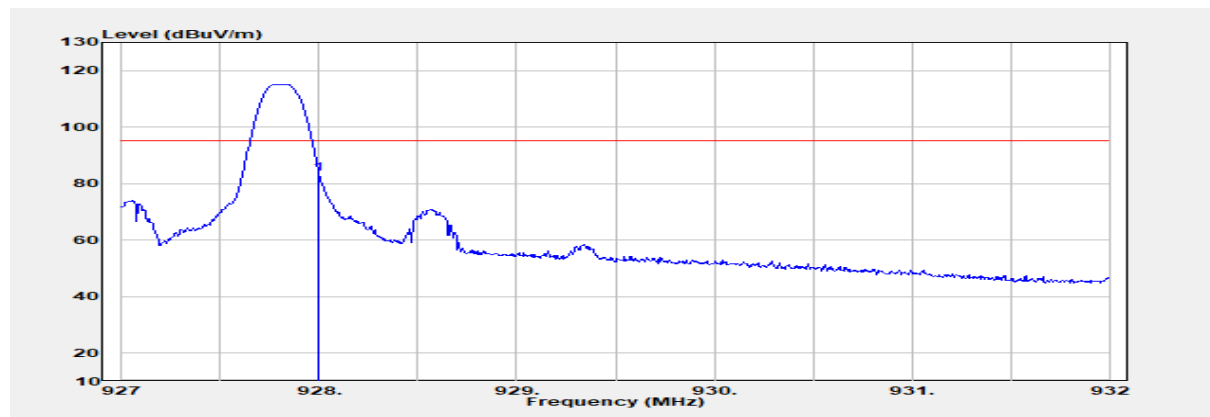
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz     | Mode     | Reading Level | dB     | FS           | @3m          | dB     |
|         | PK/QP/AV | dB $\mu$ V    |        | dB $\mu$ V/m | dB $\mu$ V/m |        |
| 928.000 | Peak     | 88.40         | -4.86  | 83.54        | 95.33        | -11.79 |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

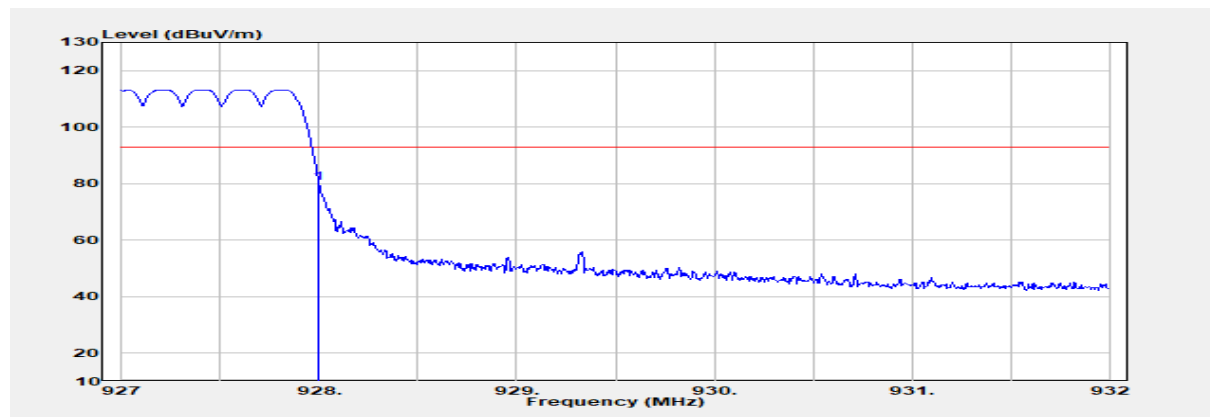
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 928.000 | Peak     | 85.10         | -4.86  | 80.24  | 92.97  | -12.73 |

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Member of SGS Group

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :927.8 MHz

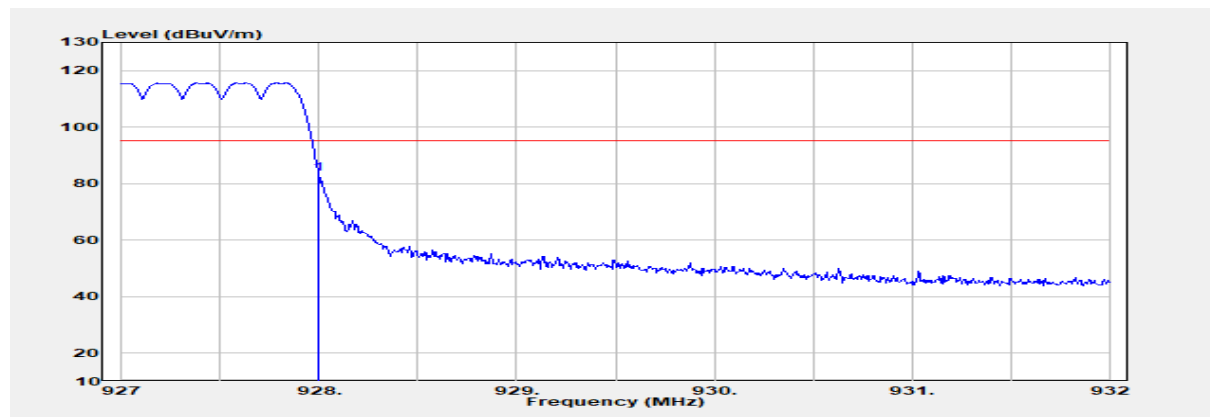
Temp./Humi. :22.4°C/54%

Test Mode :Bandedge Hopping

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 928.000      | Peak                         | 88.32                                   | -4.86        | 83.46                        | 95.33                        | -11.87       |

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## 14.7.3 Radiated Spurious Emission

## Internal antenna

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :915 MHz

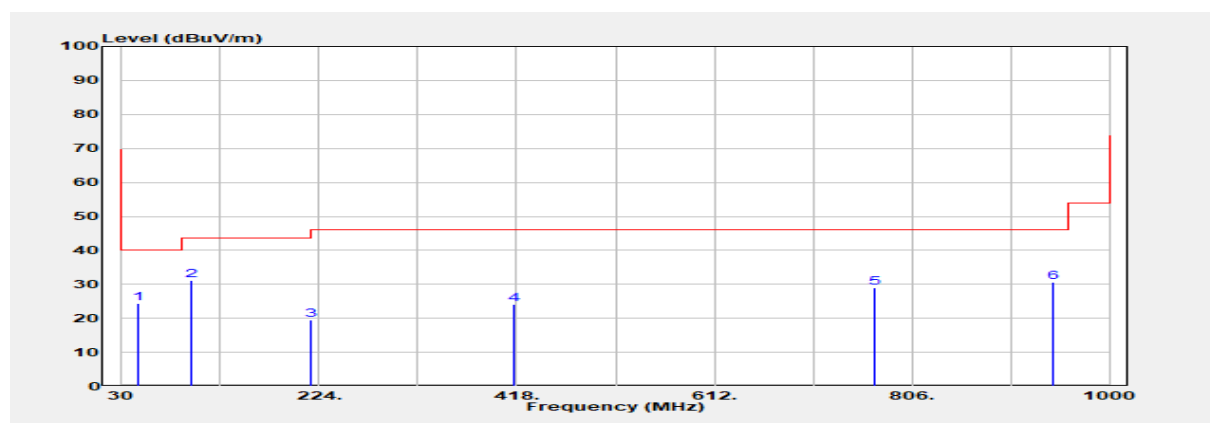
Temp./Humi. :22.4℃/54%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 46.490       | Peak                         | 41.63                             | -17.14       | 24.49                  | 40.00                  | -15.51       |
| 98.870       | Peak                         | 53.35                             | -22.25       | 31.11                  | 43.50                  | -12.39       |
| 216.240      | Peak                         | 39.22                             | -19.75       | 19.47                  | 46.00                  | -26.53       |
| 416.060      | Peak                         | 37.18                             | -13.16       | 24.02                  | 46.00                  | -21.98       |
| 769.140      | Peak                         | 35.92                             | -6.80        | 29.12                  | 46.00                  | -16.88       |
| 944.710      | Peak                         | 35.10                             | -4.59        | 30.51                  | 46.00                  | -15.49       |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-04

Test Frequency :915 MHz

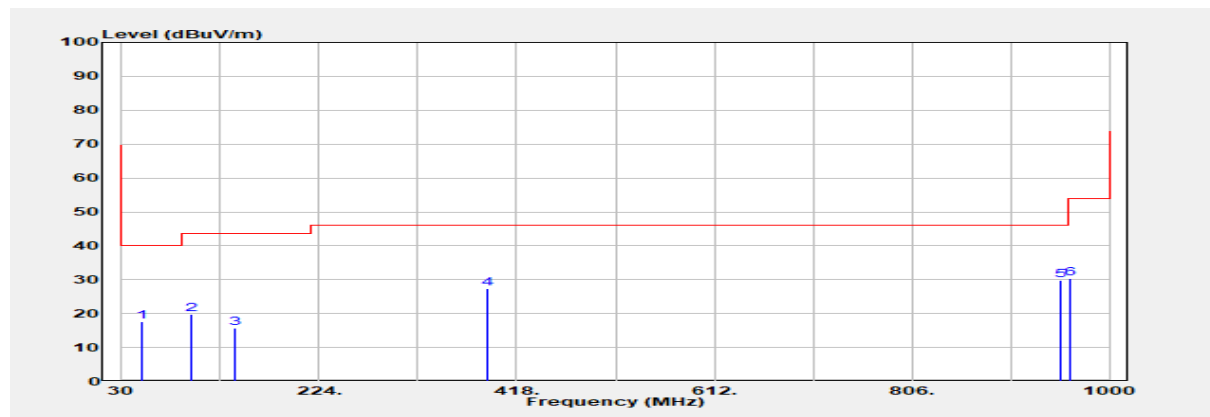
Temp./Humi. :22.4°C/54%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 50.370       | Peak                         | 34.63                                   | -16.96       | 17.67                        | 40.00                        | -22.33       |
| 98.870       | Peak                         | 41.90                                   | -22.25       | 19.66                        | 43.50                        | -23.84       |
| 140.580      | Peak                         | 32.91                                   | -17.25       | 15.66                        | 43.50                        | -27.84       |
| 389.870      | Peak                         | 41.21                                   | -13.76       | 27.45                        | 46.00                        | -18.55       |
| 951.500      | Peak                         | 34.38                                   | -4.59        | 29.79                        | 46.00                        | -16.21       |
| 961.200      | Peak                         | 34.62                                   | -4.29        | 30.33                        | 54.00                        | -23.67       |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-01

Test Frequency :902.2 MHz

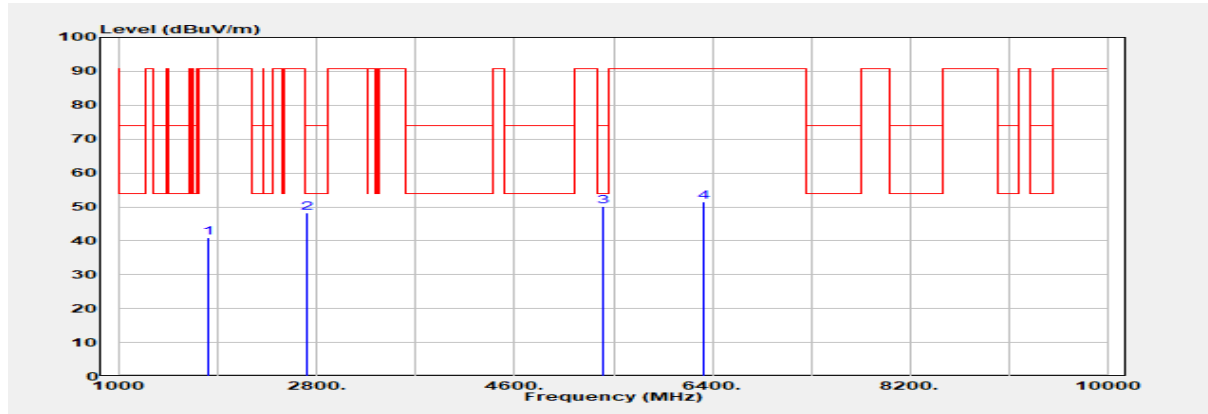
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 1804.400     | Peak                         | 48.79                             | -7.91                        | 40.88                        | 90.68                           | -49.80         |
| 2706.600     | Peak                         | 51.85                             | -3.60                        | 48.24                        | 74.00                           | -25.76         |
| 5413.200     | Peak                         | 47.23                             | 2.81                         | 50.04                        | 74.00                           | -23.96         |
| 6315.400     | Peak                         | 46.31                             | 5.05                         | 51.36                        | 90.68                           | -39.32         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 2706.600     | Average                      | 48.24                             | -2.73                        | 45.51                        | 54.00                           | -8.49          |
| 5413.200     | Average                      | 50.04                             | -2.73                        | 47.31                        | 54.00                           | -6.69          |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-01

Test Frequency :902.2 MHz

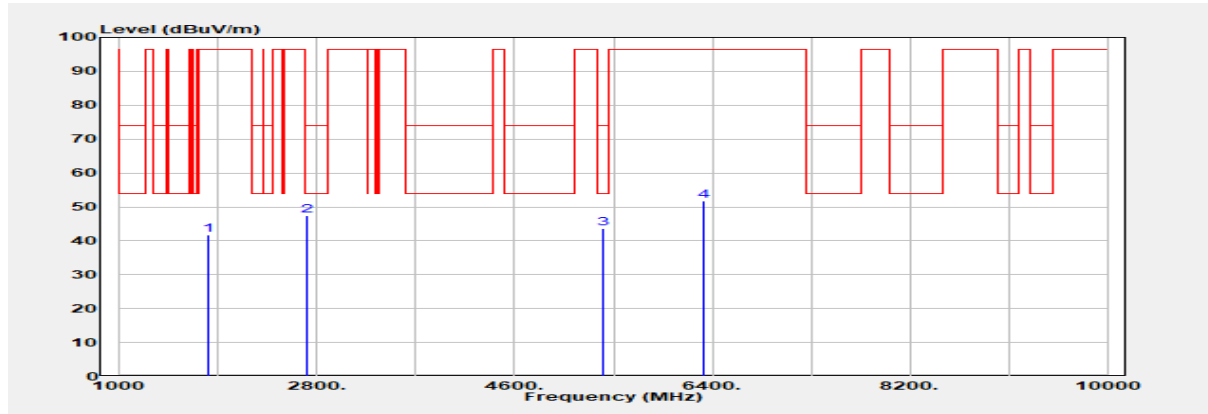
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB                 | Actual<br>FS<br>dB $\mu$ V/m       | Limit<br>@3m<br>dB $\mu$ V/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------------|------------------------------|------------------------------------|---------------------------------------|----------------|
| 1804.400     | Peak                         | 49.77                                   | -7.91                        | 41.86                              | 96.35                                 | -54.49         |
| 2706.600     | Peak                         | 51.16                                   | -3.60                        | 47.56                              | 74.00                                 | -26.44         |
| 5413.200     | Peak                         | 40.88                                   | 2.81                         | 43.69                              | 74.00                                 | -30.31         |
| 6315.400     | Peak                         | 46.64                                   | 5.05                         | 51.70                              | 96.35                                 | -44.65         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dB $\mu$ V/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dB $\mu$ V/m) | Average<br>Limit@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 2706.600     | Average                      | 47.56                                   | -2.73                        | 44.83                              | 54.00                                 | -9.17          |
| 5413.200     | Average                      | 43.69                                   | -2.73                        | 40.96                              | 54.00                                 | -13.04         |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :915 MHz

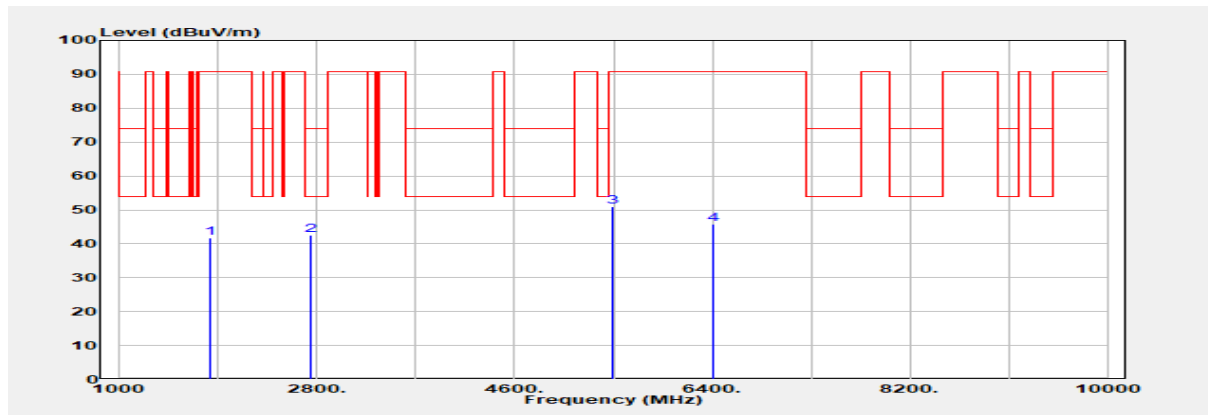
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 1830.000     | Peak                         | 49.68                             | -7.87                        | 41.80                        | 90.68                           | -48.88         |
| 2745.000     | Peak                         | 46.60                             | -3.97                        | 42.64                        | 74.00                           | -31.36         |
| 5490.000     | Peak                         | 48.80                             | 2.08                         | 50.88                        | 90.68                           | -39.80         |
| 6405.000     | Peak                         | 39.77                             | 6.00                         | 45.78                        | 90.68                           | -44.90         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 2745.000     | Average                      | 42.64                             | -2.73                        | 39.91                        | 54.00                           | -14.09         |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :915 MHz

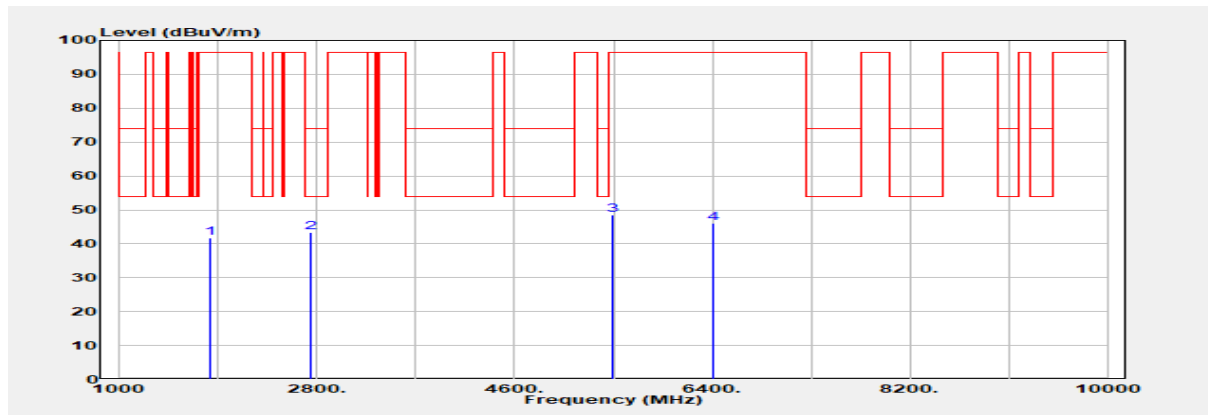
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB                 | Actual<br>FS<br>dB $\mu$ V/m       | Limit<br>@3m<br>dB $\mu$ V/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------------|------------------------------|------------------------------------|---------------------------------------|----------------|
| 1830.000     | Peak                         | 49.56                                   | -7.87                        | 41.69                              | 96.35                                 | -54.66         |
| 2745.000     | Peak                         | 47.29                                   | -3.97                        | 43.32                              | 74.00                                 | -30.68         |
| 5490.000     | Peak                         | 46.56                                   | 2.08                         | 48.64                              | 96.35                                 | -47.71         |
| 6405.000     | Peak                         | 39.96                                   | 6.00                         | 45.97                              | 96.35                                 | -50.38         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dB $\mu$ V/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dB $\mu$ V/m) | Average<br>Limit@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 2745.000     | Average                      | 43.32                                   | -2.73                        | 40.59                              | 54.00                                 | -13.41         |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :927.8 MHz

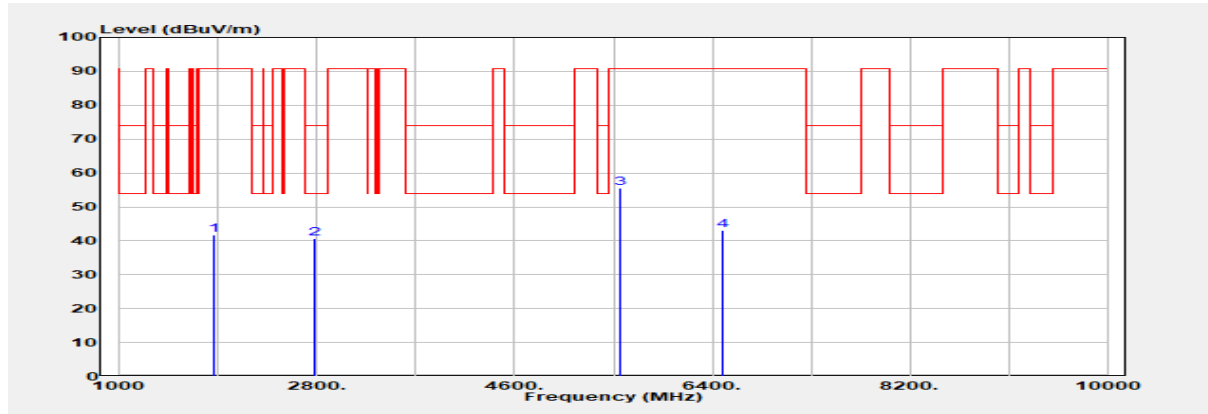
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 1855.600     | Peak                         | 49.57                                   | -7.84        | 41.74                        | 90.68                        | -48.94       |
| 2783.400     | Peak                         | 44.71                                   | -4.09        | 40.61                        | 74.00                        | -33.39       |
| 5566.800     | Peak                         | 53.42                                   | 2.04         | 55.46                        | 90.68                        | -35.22       |
| 6494.600     | Peak                         | 37.86                                   | 5.24         | 43.10                        | 90.68                        | -47.58       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dB $\mu$ V/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dB $\mu$ V/m) | Average<br>Limit@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------------|------------------------------|------------------------------------|---------------------------------------|----------------|
| 2783.400     | Average                | 40.61                               | -2.73                        | 37.88                              | 54.00                                 | -16.12         |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :927.8 MHz

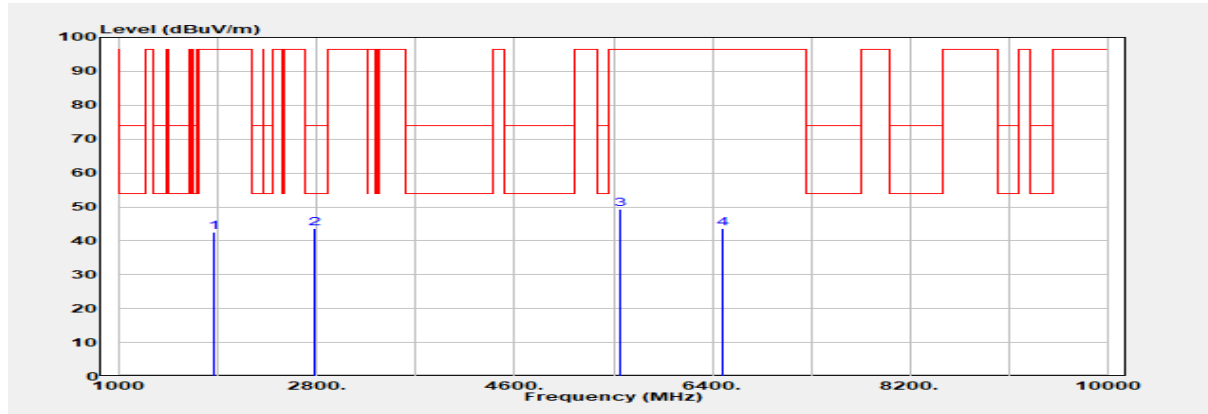
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 1855.600     | Peak                         | 50.37                             | -7.84                        | 42.54                        | 96.35                           | -53.81         |
| 2783.400     | Peak                         | 47.61                             | -4.09                        | 43.52                        | 74.00                           | -30.48         |
| 5566.800     | Peak                         | 47.40                             | 2.04                         | 49.44                        | 96.35                           | -46.91         |
| 6494.600     | Peak                         | 38.36                             | 5.24                         | 43.60                        | 96.35                           | -52.75         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 2783.400     | Average                      | 43.52                             | -2.73                        | 40.79                        | 54.00                           | -13.21         |

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**External antenna**

Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :915 MHz

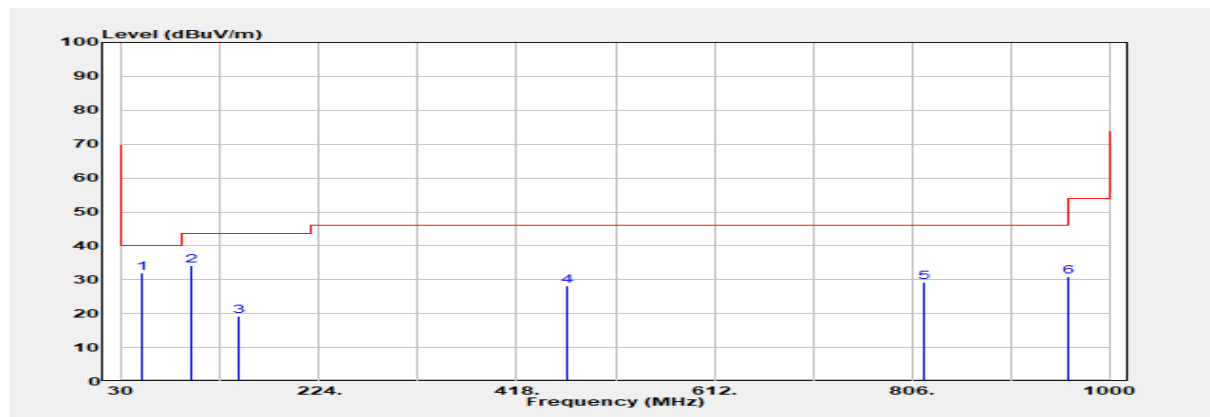
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 50.370       | Peak                         | 48.83                                   | -16.96       | 31.87                        | 40.00                        | -8.13        |
| 98.870       | Peak                         | 56.33                                   | -22.25       | 34.09                        | 43.50                        | -9.41        |
| 144.460      | Peak                         | 35.93                                   | -16.67       | 19.26                        | 43.50                        | -24.24       |
| 467.470      | Peak                         | 40.14                                   | -12.02       | 28.12                        | 46.00                        | -17.88       |
| 817.640      | Peak                         | 35.74                                   | -6.40        | 29.35                        | 46.00                        | -16.65       |
| 959.260      | Peak                         | 35.15                                   | -4.27        | 30.88                        | 46.00                        | -15.12       |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :915 MHz

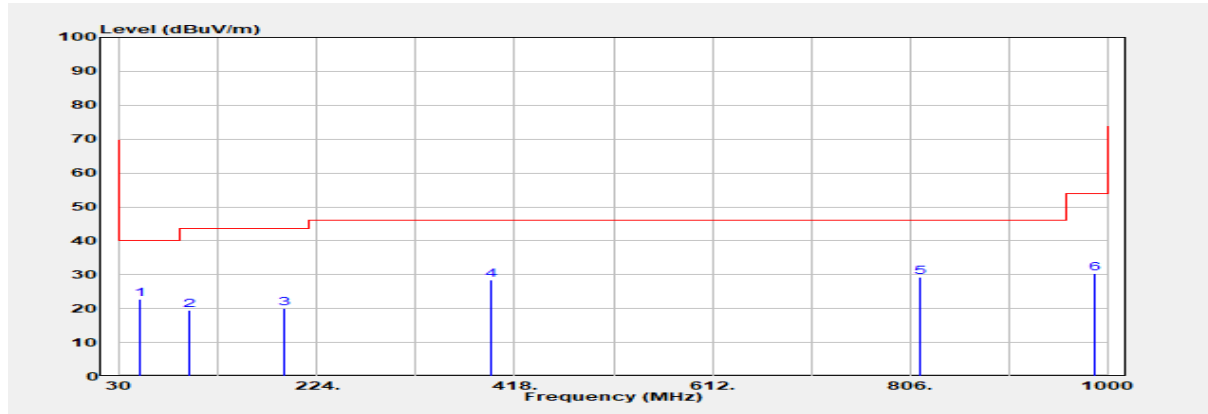
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 50.370       | Peak                         | 39.78                             | -16.96       | 22.82                  | 40.00                  | -17.18       |
| 97.900       | Peak                         | 41.98                             | -22.37       | 19.62                  | 43.50                  | -23.88       |
| 191.990      | Peak                         | 39.50                             | -19.37       | 20.13                  | 43.50                  | -23.37       |
| 394.720      | Peak                         | 41.95                             | -13.61       | 28.34                  | 46.00                  | -17.66       |
| 815.700      | Peak                         | 35.59                             | -6.45        | 29.14                  | 46.00                  | -16.86       |
| 988.360      | Peak                         | 35.25                             | -4.83        | 30.42                  | 54.00                  | -23.58       |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-01

Test Frequency :902.2 MHz

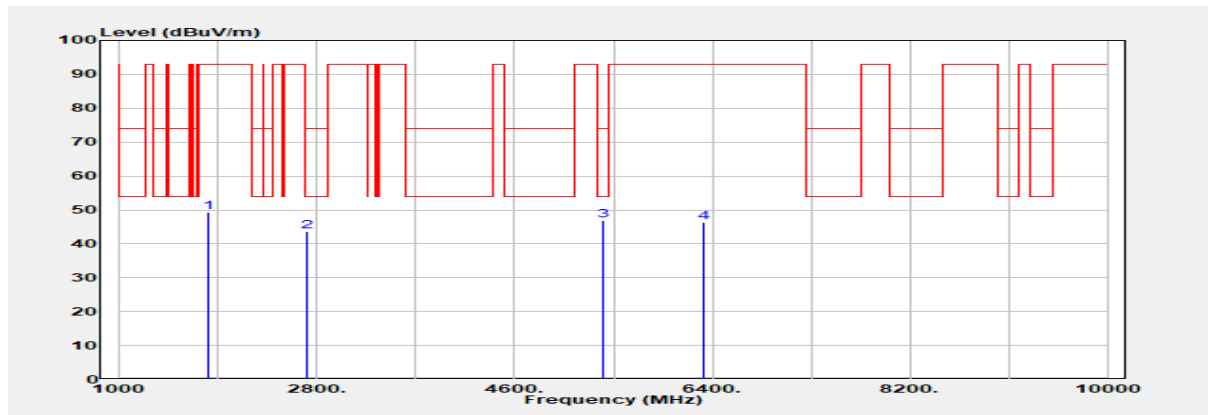
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 1804.400     | Peak                         | 57.32                             | -7.91                        | 49.41                        | 92.97                           | -43.56         |
| 2706.600     | Peak                         | 47.12                             | -3.60                        | 43.51                        | 74.00                           | -30.49         |
| 5413.200     | Peak                         | 44.01                             | 2.81                         | 46.82                        | 74.00                           | -27.18         |
| 6315.400     | Peak                         | 41.37                             | 5.05                         | 46.43                        | 92.97                           | -46.54         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 2706.600     | Average                      | 43.51                             | -2.73                        | 40.78                        | 54.00                           | -13.22         |
| 5413.200     | Average                      | 46.82                             | -2.73                        | 44.09                        | 54.00                           | -9.91          |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-01

Test Frequency :902.2 MHz

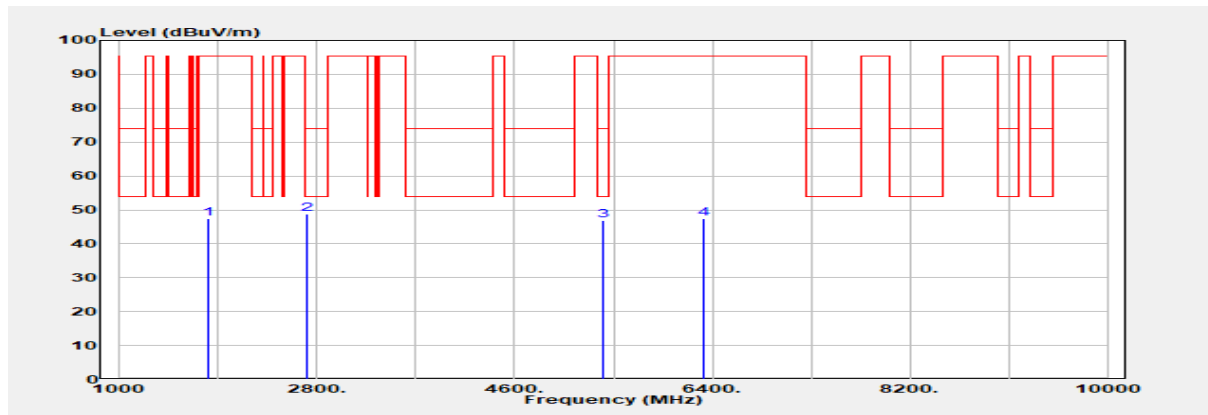
Temp./Humi. :21.7°C/52%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 1804.400     | Peak                         | 55.40                             | -7.91                        | 47.49                        | 95.33                           | -47.84         |
| 2706.600     | Peak                         | 52.28                             | -3.60                        | 48.68                        | 74.00                           | -25.32         |
| 5413.200     | Peak                         | 44.19                             | 2.81                         | 47.00                        | 74.00                           | -27.00         |
| 6315.400     | Peak                         | 42.43                             | 5.05                         | 47.48                        | 95.33                           | -47.85         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 2706.600     | Average                      | 48.68                             | -2.73                        | 45.95                        | 54.00                           | -8.05          |
| 5413.200     | Average                      | 47.00                             | -2.73                        | 44.27                        | 54.00                           | -9.73          |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :915 MHz

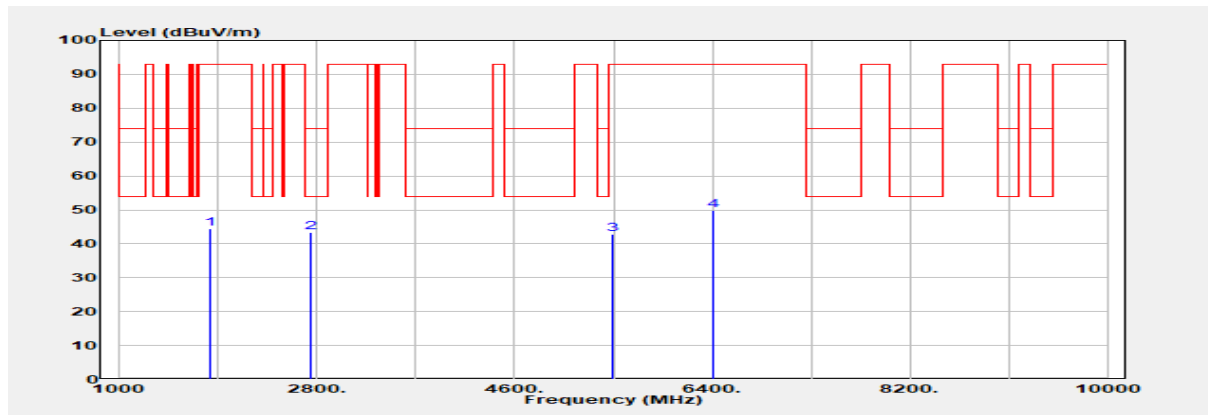
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 1830.000     | Peak                         | 52.22                                   | -7.87        | 44.35                        | 92.97                        | -48.62       |
| 2745.000     | Peak                         | 47.43                                   | -3.97        | 43.47                        | 74.00                        | -30.53       |
| 5490.000     | Peak                         | 40.79                                   | 2.08         | 42.87                        | 92.97                        | -50.10       |
| 6405.000     | Peak                         | 43.90                                   | 6.00         | 49.91                        | 92.97                        | -43.06       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dB $\mu$ V/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dB $\mu$ V/m) | Average<br>Limit@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------------|------------------------------|------------------------------------|---------------------------------------|----------------|
| 2745.000     | Average                | 43.47                               | -2.73                        | 40.74                              | 54.00                                 | -13.26         |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :915 MHz

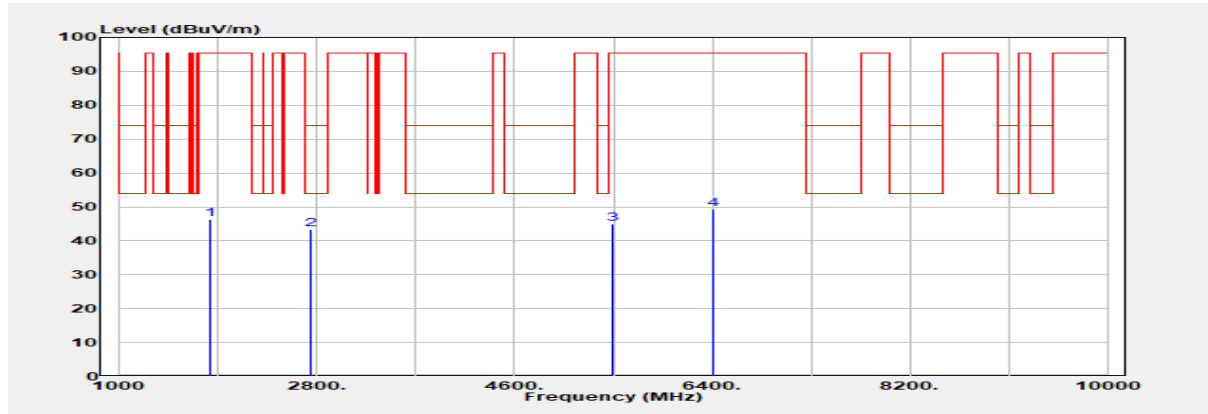
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 1830.000     | Peak                         | 54.20                             | -7.87                        | 46.33                        | 95.33                           | -49.00         |
| 2745.000     | Peak                         | 47.21                             | -3.97                        | 43.24                        | 74.00                           | -30.76         |
| 5490.000     | Peak                         | 42.83                             | 2.08                         | 44.91                        | 95.33                           | -50.42         |
| 6405.000     | Peak                         | 43.28                             | 6.00                         | 49.28                        | 95.33                           | -46.05         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 2745.000     | Average                      | 43.24                             | -2.73                        | 40.51                        | 54.00                           | -13.49         |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :927.8 MHz

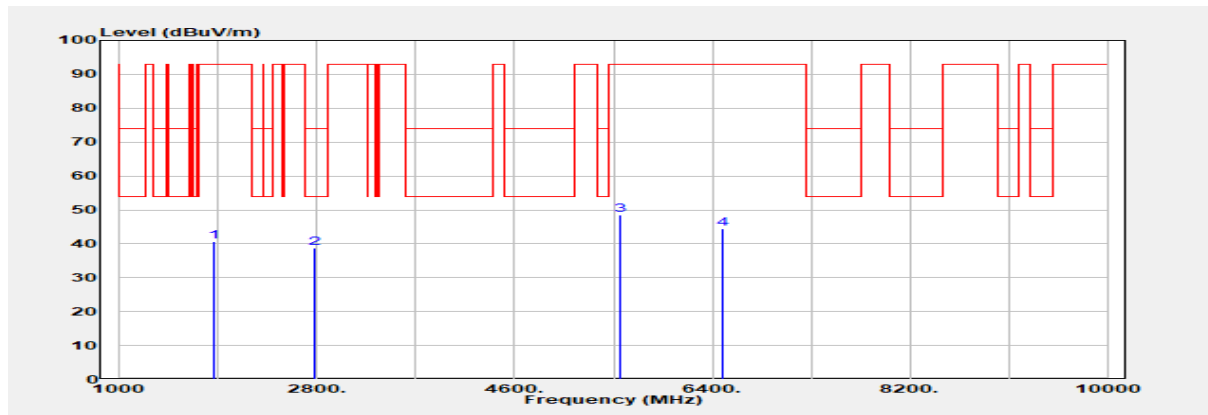
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB                 | Actual<br>FS<br>dB $\mu$ V/m       | Limit<br>@3m<br>dB $\mu$ V/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------------|------------------------------|------------------------------------|---------------------------------------|----------------|
| 1855.600     | Peak                         | 48.43                                   | -7.84                        | 40.59                              | 92.97                                 | -52.38         |
| 2783.400     | Peak                         | 42.78                                   | -4.09                        | 38.69                              | 74.00                                 | -35.31         |
| 5566.800     | Peak                         | 46.39                                   | 2.04                         | 48.43                              | 92.97                                 | -44.54         |
| 6494.600     | Peak                         | 39.15                                   | 5.24                         | 44.39                              | 92.97                                 | -48.58         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dB $\mu$ V/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dB $\mu$ V/m) | Average<br>Limit@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 2783.400     | Average                      | 38.69                                   | -2.73                        | 35.96                              | 54.00                                 | -18.04         |

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Report Number :TERF2406001611E2

Test Site :SAC D

Operation Mode :FSK 50Kbps

Test Date :2024-07-03

Test Frequency :927.8 MHz

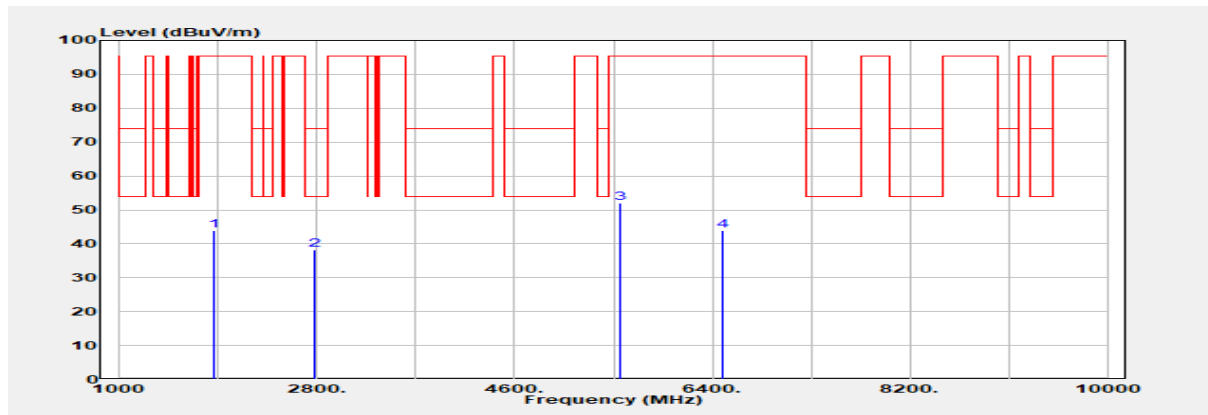
Temp./Humi. :22.1°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB                 | Actual<br>FS<br>dB $\mu$ V/m       | Limit<br>@3m<br>dB $\mu$ V/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------------|------------------------------|------------------------------------|---------------------------------------|----------------|
| 1855.600     | Peak                         | 51.74                                   | -7.84                        | 43.90                              | 95.33                                 | -51.43         |
| 2783.400     | Peak                         | 42.38                                   | -4.09                        | 38.29                              | 74.00                                 | -35.71         |
| 5566.800     | Peak                         | 49.93                                   | 2.04                         | 51.97                              | 95.33                                 | -43.36         |
| 6494.600     | Peak                         | 38.54                                   | 5.24                         | 43.78                              | 95.33                                 | -51.55         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dB $\mu$ V/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dB $\mu$ V/m) | Average<br>Limit@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
| 2783.400     | Average                      | 38.29                                   | -2.73                        | 35.56                              | 54.00                                 | -18.44         |

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## 15 ANTENNA REQUIREMENT

### 15.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 15.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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