Test CH6: 2437MHz

Test CH11: 2462MHz

Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz

Test CH6: 2437MHz

Test CH9: 2452MHz

AUDIX Technology (Shenzhen) Co., Ltd.
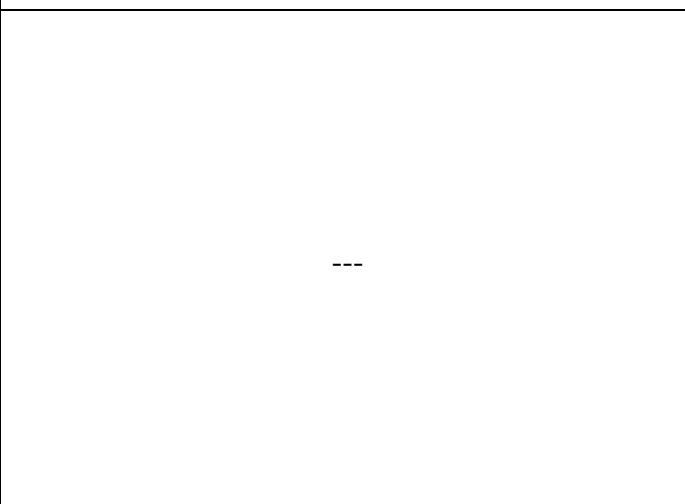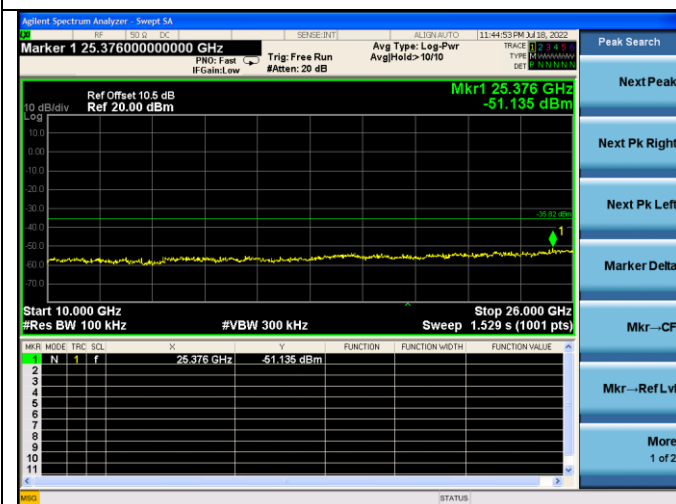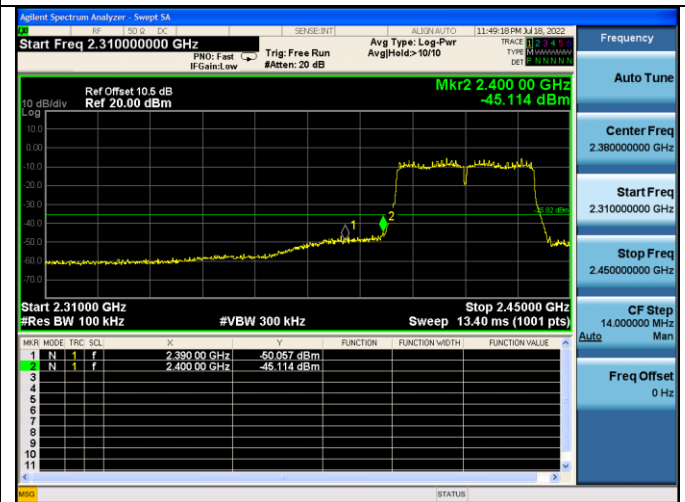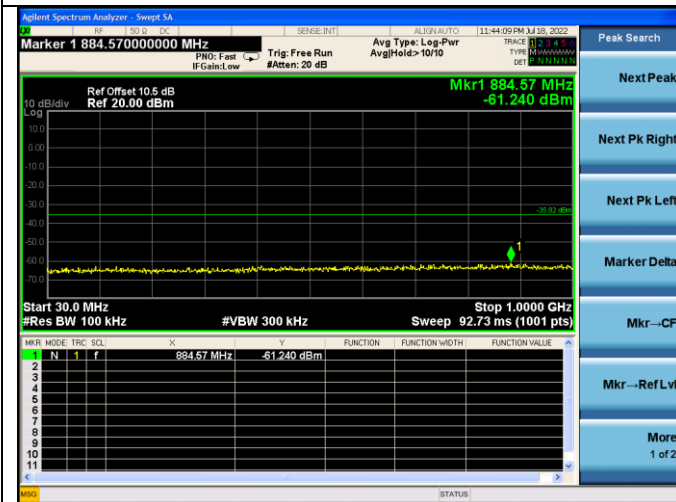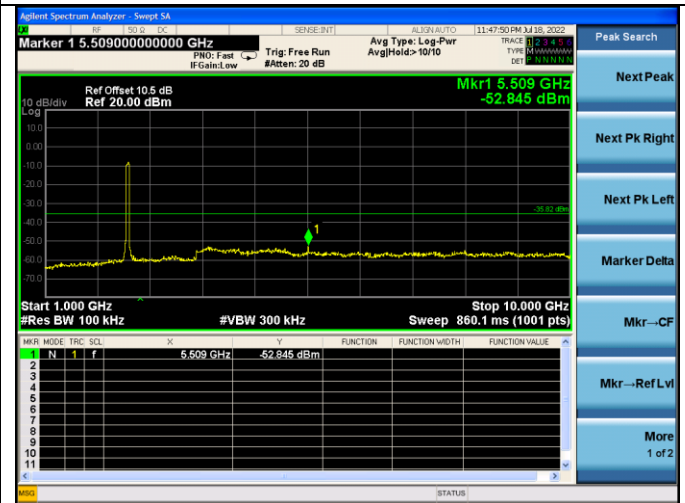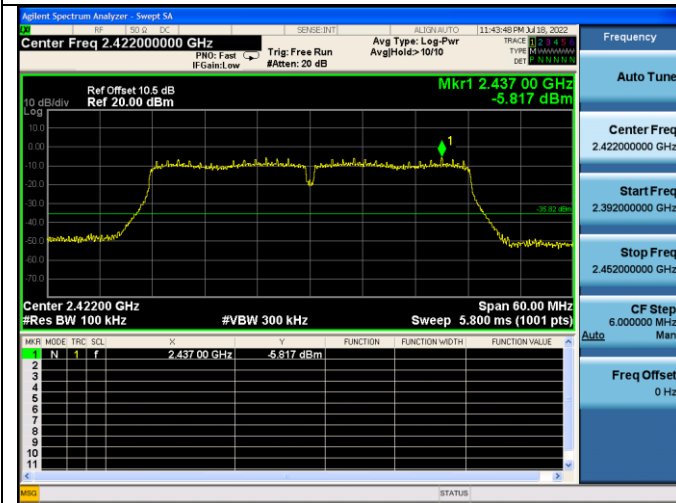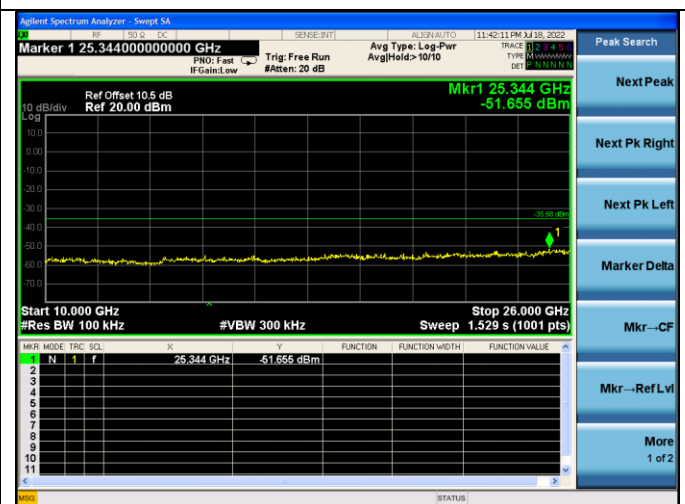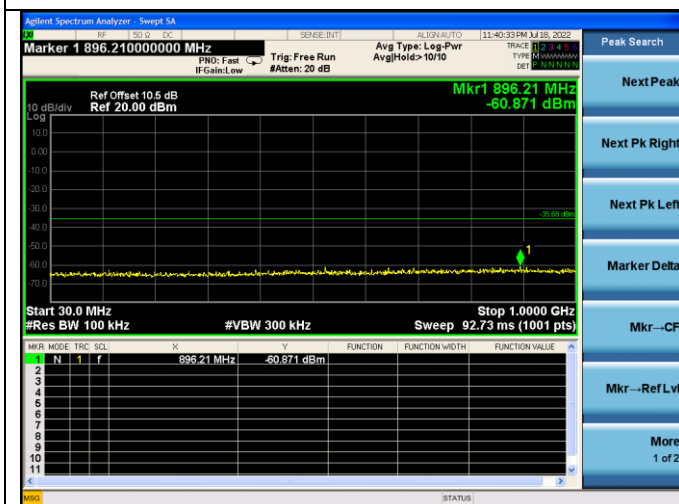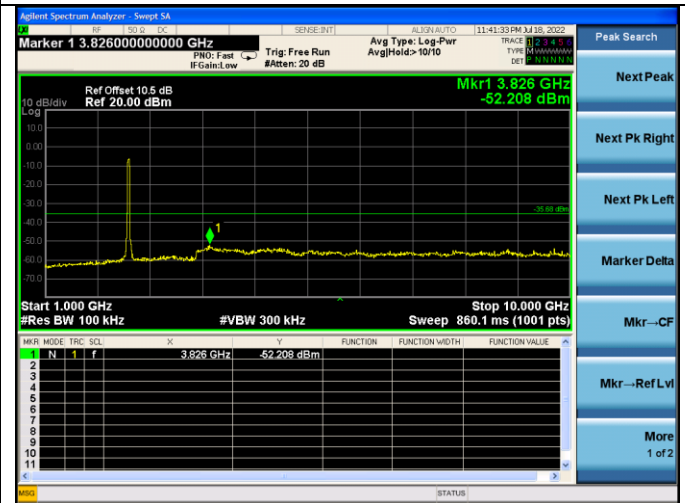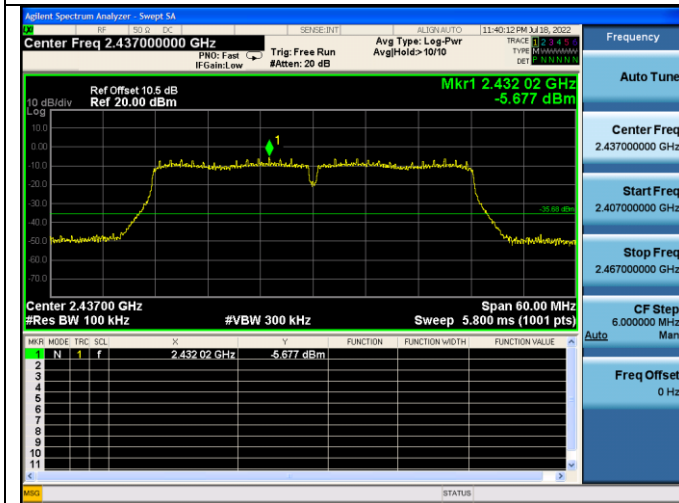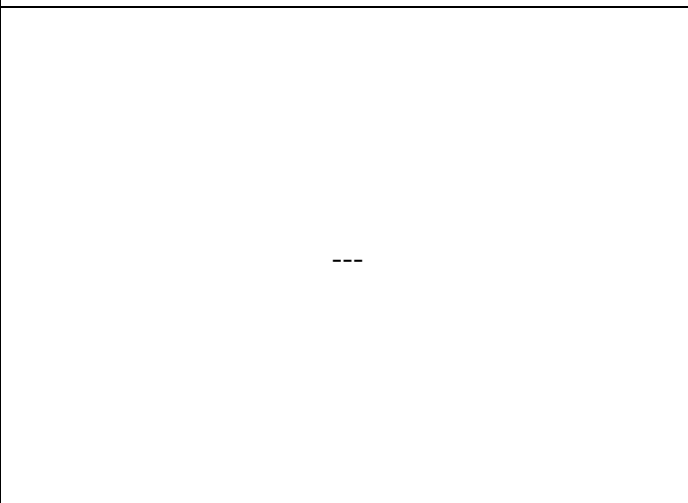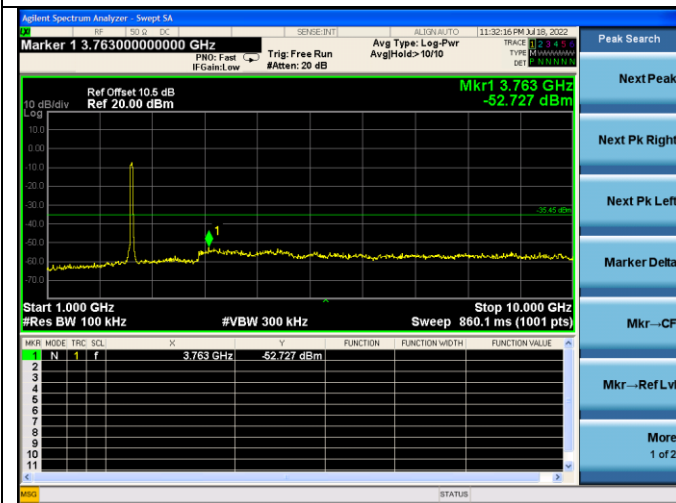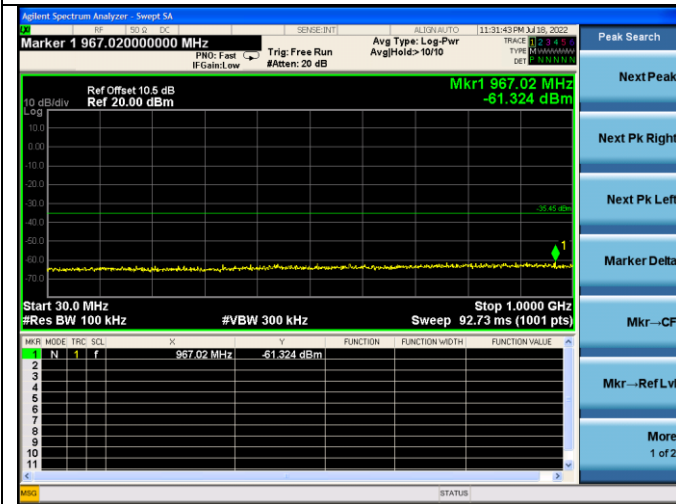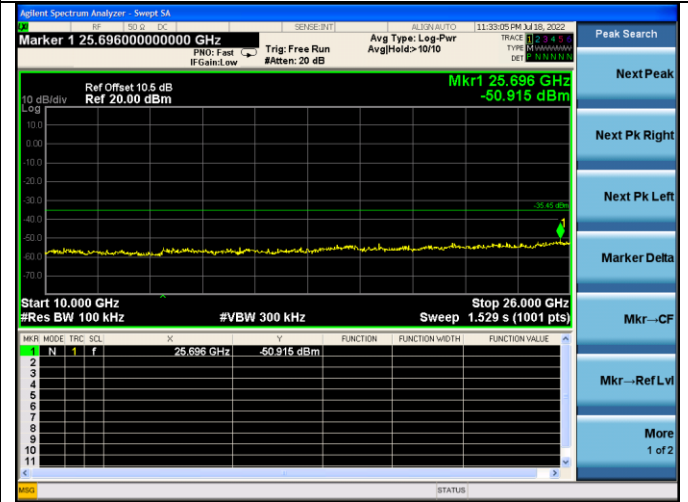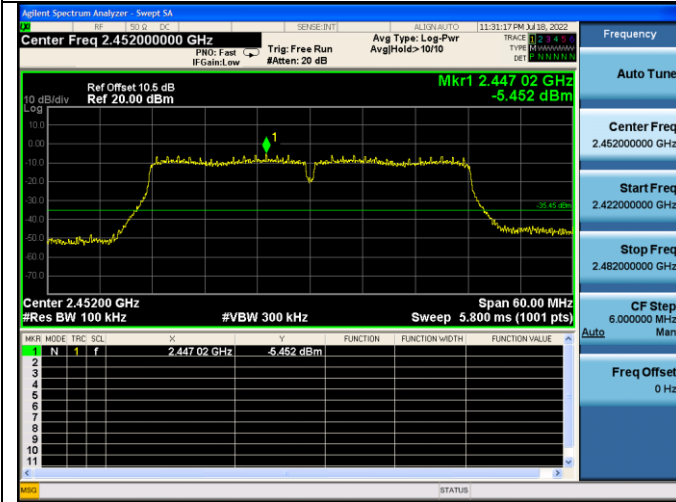
6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	Amplifier	Agilent	8449B	3008A00863	Apr.06,22	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.26,21	1 Year
4.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

(a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
(b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4. Test Results

Pass (The testing data was attached in the next pages.)

Data: 1 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-05
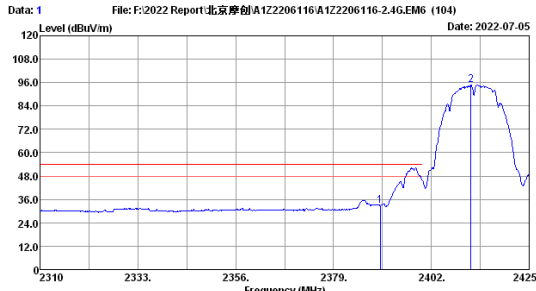
```
Site no.      : 3m Chamber              Data no.  : 1
Dis. / Ant.  : 3m    2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit         : FCC PART 15C AV
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode     : 11b 2412MHz Tx
```

| | | Ant. | Cable | | Amp | Emission | | | |
|No. | Freq. | Factor | Loss | Reading | factor | Level | Limits | Margin | Remark |
	(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	27.89	3.65	36.54	35.24	32.84	54.00	21.16	Average
2	2411.32	27.93	3.66	98.58	35.24	94.93	------	------	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 2 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-05
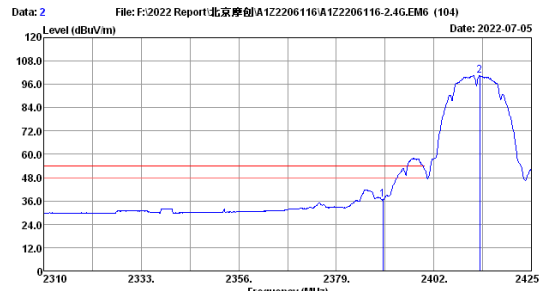
```
Site no.      : 3m Chamber              Data no.  : 2
Dis. / Ant.  : 3m    2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C AV
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode     : 11b 2412MHz Tx
```

| | | Ant. | Cable | | Amp | Emission | | | |
|No. | Freq. | Factor | Loss | Reading | factor | Level | Limits | Margin | Remark |
	(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	27.89	3.65	40.33	35.24	36.63	54.00	17.37	Average
2	2412.81	27.93	3.66	104.33	35.24	100.68	------	------	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 3 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-05

```
Site no.      : 3m Chamber              Data no.  : 3
Dis. / Ant.  : 3m    2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode     : 11b 2412MHz Tx
```

| | | Ant. | Cable | | Amp | Emission | | | |
|No. | Freq. | Factor | Loss | Reading | factor | Level | Limits | Margin | Remark |
	(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	27.89	3.65	51.11	35.24	47.41	74.00	26.59	Peak
2	2413.39	27.93	3.66	108.72	35.24	105.07	------	------	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 4 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-05

```
Site no.      : 3m Chamber              Data no.  : 4
Dis. / Ant.  : 3m    2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode     : 11b 2412MHz Tx
```

| | | Ant. | Cable | | Amp | Emission | | | |
|No. | Freq. | Factor | Loss | Reading | factor | Level | Limits | Margin | Remark |
	(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.00	27.89	3.65	48.11	35.24	44.41	74.00	29.59	Peak
2	2413.50	27.93	3.66	103.91	35.24	100.26	------	------	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 5   File:F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.     : 3m Chamber              Data no.  : 5
Dis. / Ant.  : 3m   2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode    : 11b 2462MHz Tx

            Ant.   Cable          Amp  Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)   (dB) (dBuV/m) (dBuV/m) (dB)
--------------------------------------------------------------------
 1 2463.44  28.03  3.70  104.45  35.25 100.93  ------  ------  Peak
 2 2483.50  28.07  3.71   49.15  35.25  45.68   74.00   28.32  Peak
 3 2500.00  28.10  3.72   46.49  35.25  43.06   74.00   30.94  Peak
--------------------------------------------------------------------

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
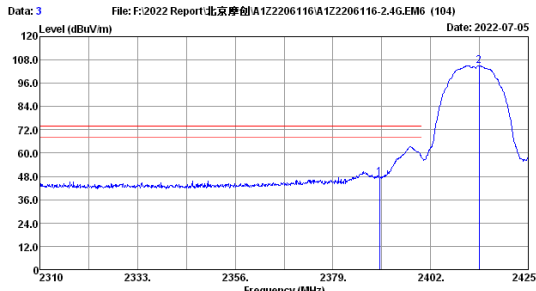
Data: 6   File:F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.     : 3m Chamber              Data no.  : 6
Dis. / Ant.  : 3m   2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode    : 11b 2462MHz Tx

            Ant.   Cable          Amp  Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)   (dB) (dBuV/m) (dBuV/m) (dB)
--------------------------------------------------------------------
 1 2460.68  28.03  3.70  108.18  35.25 104.66  ------  ------  Peak
 2 2483.50  28.07  3.71   49.51  35.25  46.04   74.00   27.96  Peak
 3 2500.00  28.10  3.72   47.34  35.25  43.91   74.00   30.09  Peak
--------------------------------------------------------------------

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
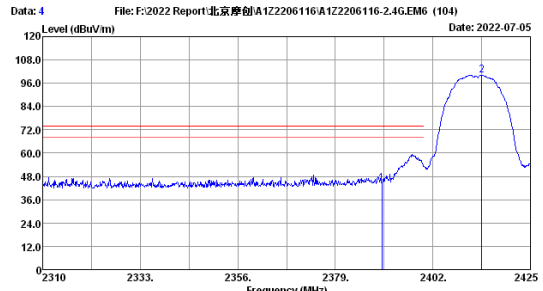
Data: 7   File:F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.     : 3m Chamber              Data no.  : 7
Dis. / Ant.  : 3m   2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit        : FCC PART 15C AV
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode    : 11b 2462MHz Tx

            Ant.   Cable          Amp  Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)   (dB) (dBuV/m) (dBuV/m) (dB)
--------------------------------------------------------------------
 1 2461.22  28.03  3.70  104.33  35.25 100.81  ------  ------  Average
 2 2483.50  28.07  3.71   40.32  35.25  36.85   54.00   17.15  Average
 3 2500.00  28.10  3.72   36.96  35.25  33.53   54.00   20.47  Average
--------------------------------------------------------------------

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
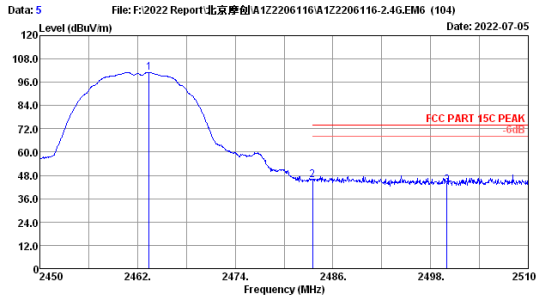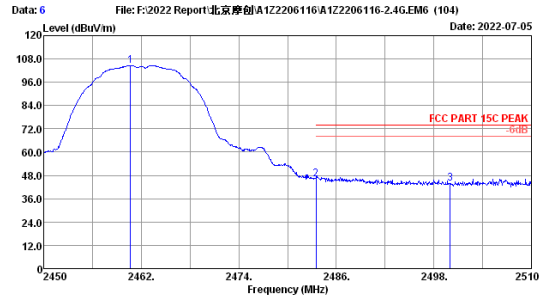
Data: 8   File:F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.     : 3m Chamber              Data no.  : 8
Dis. / Ant.  : 3m   2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit        : FCC PART 15C AV
Env. / Ins.  : 23.8°C/53.5%             Engineer  : Allen
Test Mode    : 11b 2462MHz Tx

            Ant.   Cable          Amp  Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)   (dB) (dBuV/m) (dBuV/m) (dB)
--------------------------------------------------------------------
 1 2462.72  28.03  3.70  100.94  35.25  97.42  ------  ------  Average
 2 2483.50  28.07  3.71   38.39  35.25  34.92   54.00   19.08  Average
 3 2500.00  28.10  3.72   35.04  35.25  31.61   54.00   22.39  Average
--------------------------------------------------------------------

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
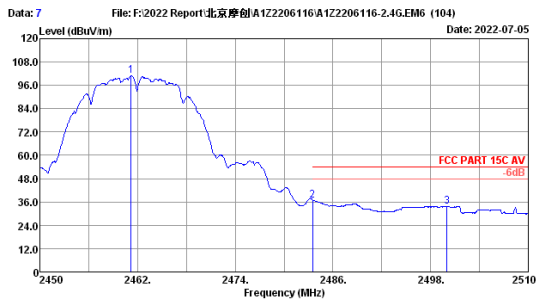
AUDIX Technology (Shenzhen) Co., Ltd.

Data: 9　　　File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.       : 3m Chamber              Data no. : 9
Dis. / Ant.    : 3m   2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit          : FCC PART 15C AV
Env. / Ins.    : 23.8°C/53.5%            Engineer  : Allen
Test Mode      : 11g 2412MHz Tx

              Ant.   Cable           Amp   Emission
No.   Freq.  Factor  Loss   Reading factor Level   Limits   Margin  Remark
      (MHz)  (dB/m)  (dB)   (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-----------------------------------------------------------------------
 1  2390.00  27.89   3.65   41.26   35.24  37.56   54.00    16.44  Average
 2  2414.88  27.93   3.66   92.94   35.24  89.29   ------   ------ Average
-----------------------------------------------------------------------
   Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
              -Amp factor.
            2. The emission levels that are 20dB below the official
               limit are not reported.
```
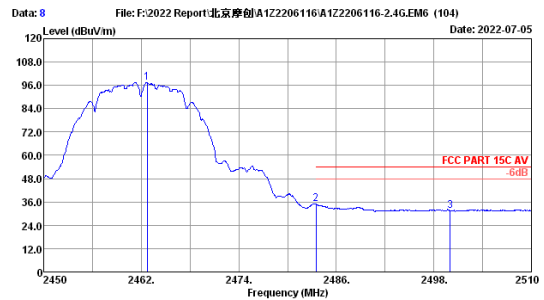
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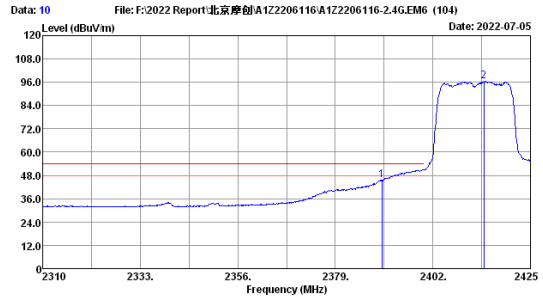

```
Site no.       : 3m Chamber              Data no. : 10
Dis. / Ant.    : 3m   2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit          : FCC PART 15C AV
Env. / Ins.    : 23.8°C/53.5%            Engineer  : Allen
Test Mode      : 11g 2412MHz Tx

              Ant.   Cable           Amp   Emission
No.   Freq.  Factor  Loss   Reading factor Level   Limits   Margin  Remark
      (MHz)  (dB/m)  (dB)   (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-----------------------------------------------------------------------
 1  2390.00  27.89   3.65   49.23   35.24  45.53   54.00     8.47  Average
 2  2414.08  27.93   3.66   99.98   35.24  96.33   ------   ------ Average
-----------------------------------------------------------------------
   Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
              -Amp factor.
            2. The emission levels that are 20dB below the official
               limit are not reported.
```
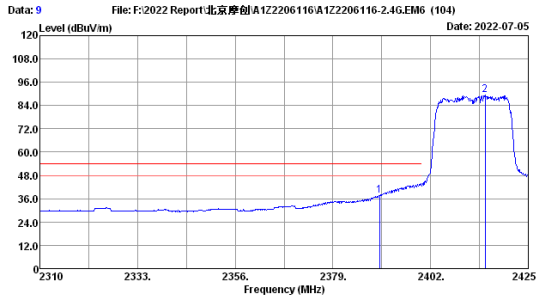
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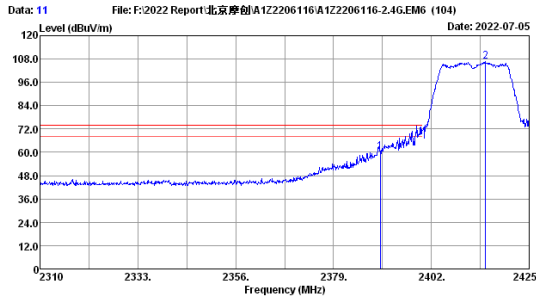

```
Site no.       : 3m Chamber              Data no. : 11
Dis. / Ant.    : 3m   2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit          : FCC PART 15C PEAK
Env. / Ins.    : 23.8°C/53.5%            Engineer  : Allen
Test Mode      : 11g 2412MHz Tx

              Ant.   Cable           Amp   Emission
No.   Freq.  Factor  Loss   Reading factor Level   Limits   Margin  Remark
      (MHz)  (dB/m)  (dB)   (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-----------------------------------------------------------------------
 1  2390.00  27.89   3.65   63.70   35.24  60.00   74.00    14.00  Peak
 2  2414.77  27.93   3.66  110.25   35.24 106.60   ------   ------ Peak
-----------------------------------------------------------------------
   Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
              -Amp factor.
            2. The emission levels that are 20dB below the official
               limit are not reported.
```

Data: 12　　　File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.       : 3m Chamber              Data no. : 12
Dis. / Ant.    : 3m   2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit          : FCC PART 15C PEAK
Env. / Ins.    : 23.8°C/53.5%            Engineer  : Allen
Test Mode      : 11g 2412MHz Tx

              Ant.   Cable           Amp   Emission
No.   Freq.  Factor  Loss   Reading factor Level   Limits   Margin  Remark
      (MHz)  (dB/m)  (dB)   (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-----------------------------------------------------------------------
 1  2390.00  27.89   3.65   57.03   35.24  53.33   74.00    20.67  Peak
 2  2414.54  27.93   3.66  105.13   35.24 101.48   ------   ------ Peak
-----------------------------------------------------------------------
   Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
              -Amp factor.
            2. The emission levels that are 20dB below the official
               limit are not reported.
```

Data: 13 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104) Date: 2022-07-05


```
Site no.      : 3m Chamber                    Data no.  : 13
Dis. / Ant.   : 3m    2021 MCTD1209-3006      Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11g 2462MHz Tx
```

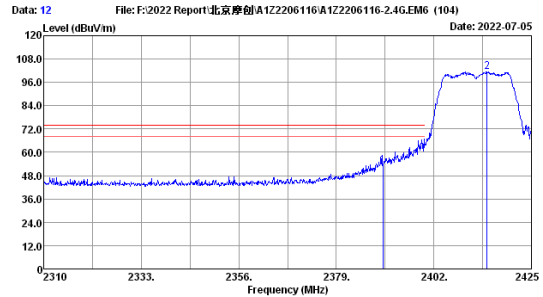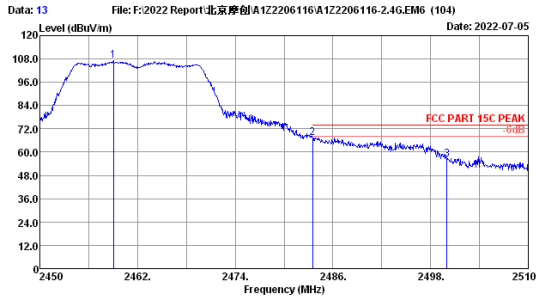| No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.06	28.03	3.70	110.46	35.25	106.94	------	------	Peak
2	2483.50	28.07	3.71	70.59	35.25	67.12	74.00	6.88	Peak
3	2500.00	28.10	3.72	59.61	35.25	56.18	74.00	17.82	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 14 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104) Date: 2022-07-05


```
Site no.      : 3m Chamber                    Data no.  : 14
Dis. / Ant.   : 3m    2021 MCTD1209-3006      Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11g 2462MHz Tx
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.52	28.03	3.70	106.44	35.25	102.92	------	------	Peak
2	2483.50	28.07	3.71	69.79	35.25	66.32	74.00	7.68	Peak
3	2500.00	28.10	3.72	58.20	35.25	54.77	74.00	19.23	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
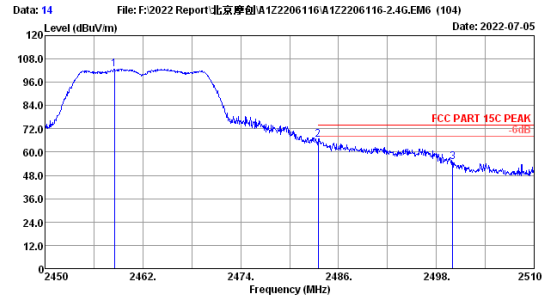
Data: 15 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104) Date: 2022-07-05


```
Site no.      : 3m Chamber                    Data no.  : 15
Dis. / Ant.   : 3m    2021 MCTD1209-3006      Ant. pol. : VERTICAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11g 2462MHz Tx
```

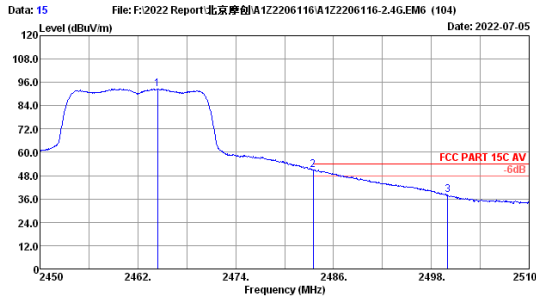| No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.40	28.03	3.70	99.68	35.25	92.50	------	------	Average
2	2483.50	28.07	3.71	54.19	35.25	50.72	54.00	3.28	Average
3	2500.00	28.10	3.72	41.29	35.25	37.86	54.00	16.14	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 16 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104) Date: 2022-07-05


```
Site no.      : 3m Chamber                    Data no.  : 16
Dis. / Ant.   : 3m    2021 MCTD1209-3006      Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11g 2462MHz Tx
```

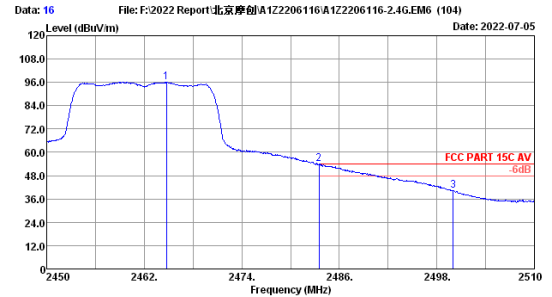| No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.76	28.03	3.70	96.16	35.25	96.16	------	------	Average
2	2483.50	28.07	3.71	57.36	35.25	53.89	54.00	0.11	Average
3	2500.00	28.10	3.72	43.71	35.25	40.28	54.00	13.72	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 17   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08


```
Site no.     : 3m Chamber                    Data no.  : 17
Dis. / Ant.  : 3m   2021 MCTD1209-3006       Ant. pol. : VERTICAL
Limit        : FCC PART 15C AV
Env. / Ins.  : 23.8°C/53.5%                  Engineer  : Allen
Test Mode    : 11n20 2412MHz Tx
```

```
           Ant.   Cable          Amp   Emission
No.  Freq.  Factor Loss  Reading factor Level   Limits   Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-------------------------------------------------------------------------
  1 2390.00 27.89  3.65  42.72  35.24  39.02   54.00     14.98  Average
  2 2414.42 27.93  3.66  92.00  35.24  88.35   ------    ------ Average
-------------------------------------------------------------------------
```
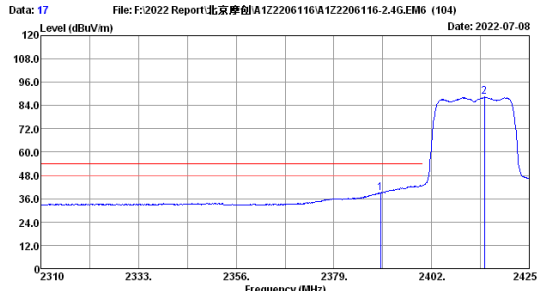
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
           -Amp factor.
         2. The emission levels that are 20dB below the official
           limit are not reported.

Data: 18   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08


```
Site no.     : 3m Chamber                    Data no.  : 18
Dis. / Ant.  : 3m   2021 MCTD1209-3006       Ant. pol. : HORIZONTAL
Limit        : FCC PART 15C AV
Env. / Ins.  : 23.8°C/53.5%                  Engineer  : Allen
Test Mode    : 11n20 2412MHz Tx
```

```
           Ant.   Cable          Amp   Emission
No.  Freq.  Factor Loss  Reading factor Level   Limits   Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-------------------------------------------------------------------------
  1 2390.00 27.89  3.65  48.15  35.24  44.45   54.00      9.55  Average
  2 2419.71 27.96  3.67  97.63  35.24  94.02   ------    ------ Average
-------------------------------------------------------------------------
```
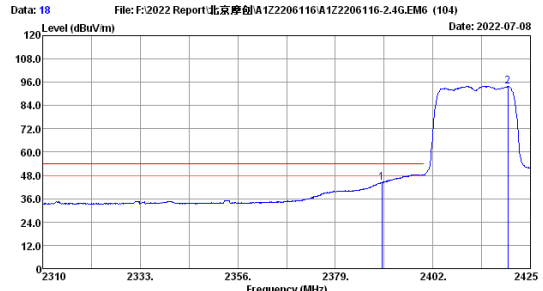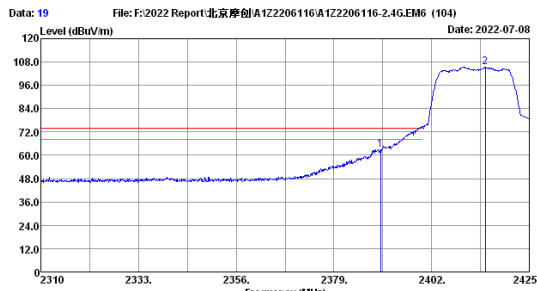
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
           -Amp factor.
         2. The emission levels that are 20dB below the official
           limit are not reported.

Data: 19   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08


```
Site no.     : 3m Chamber                    Data no.  : 19
Dis. / Ant.  : 3m   2021 MCTD1209-3006       Ant. pol. : HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23.8°C/53.5%                  Engineer  : Allen
Test Mode    : 11n20 2412MHz Tx
```

```
           Ant.   Cable          Amp   Emission
No.  Freq.  Factor Loss  Reading factor Level   Limits   Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-------------------------------------------------------------------------
  1 2390.00 27.89  3.65  66.55  35.24  62.85   74.00     11.15  Peak
  2 2414.65 27.93  3.66  109.01 35.24  105.36  ------    ------ Peak
-------------------------------------------------------------------------
```
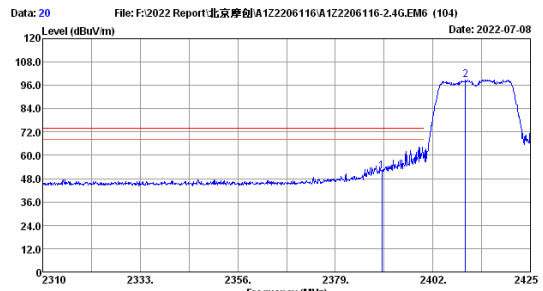
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
           -Amp factor.
         2. The emission levels that are 20dB below the official
           limit are not reported.

Data: 20   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08


```
Site no.     : 3m Chamber                    Data no.  : 20
Dis. / Ant.  : 3m   2021 MCTD1209-3006       Ant. pol. : VERTICAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : 23.8°C/53.5%                  Engineer  : Allen
Test Mode    : 11n20 2412MHz Tx
```

```
           Ant.   Cable          Amp   Emission
No.  Freq.  Factor Loss  Reading factor Level   Limits   Margin Remark
     (MHz)  (dB/m) (dB)  (dBuV)  (dB)  (dBuV/m) (dBuV/m)  (dB)
-------------------------------------------------------------------------
  1 2390.00 27.89  3.65  55.69  35.24  51.99   74.00     22.01  Peak
  2 2409.71 27.93  3.66  102.50 35.24  98.85   ------    ------ Peak
-------------------------------------------------------------------------
```
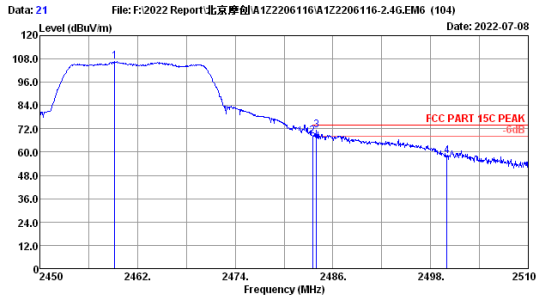
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
           -Amp factor.
         2. The emission levels that are 20dB below the official
           limit are not reported.

AUDIX Technology (Shenzhen) Co., Ltd.

Data: 21 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08

Site no.   : 3m Chamber   Data no. : 21
Dis. / Ant. : 3m   2021 MCTD1209-3006   Ant. pol. : HORIZONTAL
Limit   : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5%   Engineer : Allen
Test Mode   : 11n20 2462MHz Tx

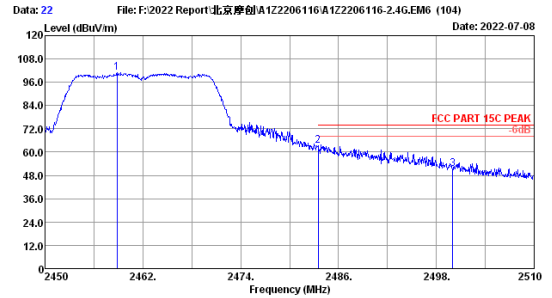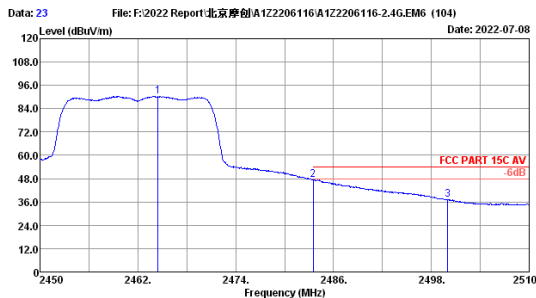| No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.18	28.03	3.70	110.27	35.25	106.75	------	------	Peak
2	2483.50	28.07	3.71	71.66	35.25	68.19	74.00	5.81	Peak
3	2483.96	28.07	3.71	74.55	35.25	71.08	74.00	2.92	Peak
4	2500.00	28.10	3.72	61.60	35.25	58.17	74.00	15.83	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
             -Amp factor.
         2. The emission levels that are 20dB below the official
             limit are not reported.

Data: 22 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08

Site no.   : 3m Chamber   Data no. : 22
Dis. / Ant. : 3m   2021 MCTD1209-3006   Ant. pol. : VERTICAL
Limit   : FCC PART 15C PEAK
Env. / Ins. : 23.8°C/53.5%   Engineer : Allen
Test Mode   : 11n20 2462MHz Tx

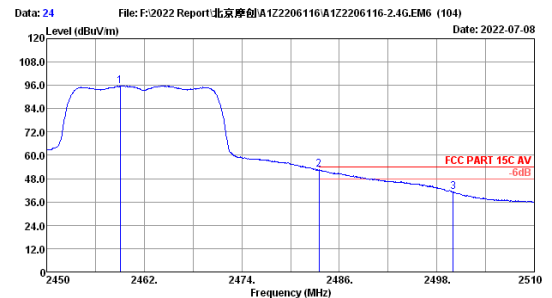| No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.82	28.03	3.70	104.70	35.25	101.18	------	------	Peak
2	2483.50	28.07	3.71	66.88	35.25	63.41	74.00	10.59	Peak
3	2500.00	28.10	3.72	54.80	35.25	51.37	74.00	22.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
             -Amp factor.
         2. The emission levels that are 20dB below the official
             limit are not reported.

Data: 23 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08

Site no.   : 3m Chamber   Data no. : 23
Dis. / Ant. : 3m   2021 MCTD1209-3006   Ant. pol. : VERTICAL
Limit   : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5%   Engineer : Allen
Test Mode   : 11n20 2462MHz Tx

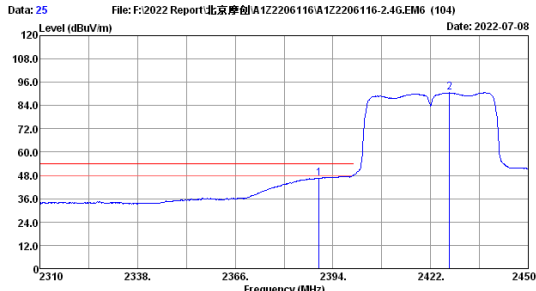| No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.46	28.03	3.70	93.87	35.25	90.35	------	------	Average
2	2483.50	28.07	3.71	50.96	35.25	47.49	54.00	6.51	Average
3	2500.00	28.10	3.72	40.50	35.25	37.07	54.00	16.93	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
             -Amp factor.
         2. The emission levels that are 20dB below the official
             limit are not reported.

Data: 24 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Date: 2022-07-08

Site no.   : 3m Chamber   Data no. : 24
Dis. / Ant. : 3m   2021 MCTD1209-3006   Ant. pol. : HORIZONTAL
Limit   : FCC PART 15C AV
Env. / Ins. : 23.8°C/53.5%   Engineer : Allen
Test Mode   : 11n20 2462MHz Tx

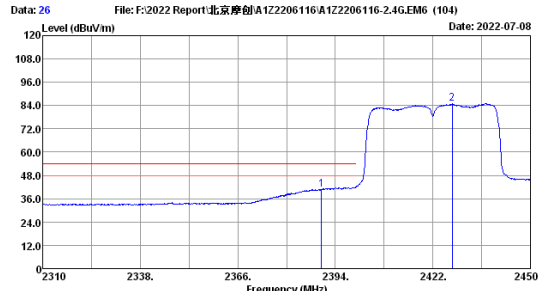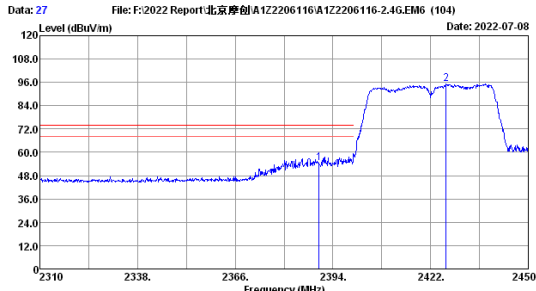| No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.06	28.03	3.70	99.35	35.25	95.83	------	------	Average
2	2483.50	28.07	3.71	56.30	35.25	52.83	54.00	1.17	Average
3	2500.00	28.10	3.72	44.73	35.25	41.30	54.00	12.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
             -Amp factor.
         2. The emission levels that are 20dB below the official
             limit are not reported.

AUDIX Technology (Shenzhen) Co., Ltd.

Data: 25   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.      : 3m Chamber                    Data no.  : 25
Dis. / Ant.   : 3m   2021 MCTD1209-3006       Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11n40 2422MHz Tx
```

```
           Ant.   Cable                Amp    Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz) (dB/m) (dB)   (dBuV)   (dB)  (dBuV/m) (dBuV/m) (dB)
------------------------------------------------------------------------
 1  2390.00 27.89 3.65   50.21   35.24  46.51   54.00    7.49  Average
 2  2427.46 27.96 3.67   94.19   35.24  90.58   ------   ----- Average
------------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 26   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.      : 3m Chamber                    Data no.  : 26
Dis. / Ant.   : 3m   2021 MCTD1209-3006       Ant. pol. : VERTICAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11n40 2422MHz Tx
```

```
           Ant.   Cable                Amp    Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz) (dB/m) (dB)   (dBuV)   (dB)  (dBuV/m) (dBuV/m) (dB)
------------------------------------------------------------------------
 1  2390.00 27.89 3.65   44.33   35.24  40.63   54.00   13.37  Average
 2  2427.60 27.96 3.67   88.56   35.24  84.95   ------   ----- Average
------------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
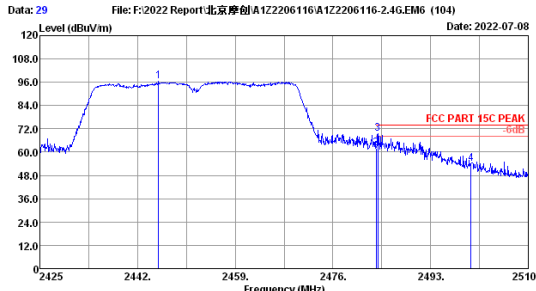
Data: 27   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)


```
Site no.      : 3m Chamber                    Data no.  : 27
Dis. / Ant.   : 3m   2021 MCTD1209-3006       Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11n40 2422MHz Tx
```

```
           Ant.   Cable                Amp    Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz) (dB/m) (dB)   (dBuV)   (dB)  (dBuV/m) (dBuV/m) (dB)
------------------------------------------------------------------------
 1  2390.00 27.89 3.65   58.07   35.24  54.37   74.00   19.63  Peak
 2  2426.48 27.96 3.67   98.64   35.24  95.03   ------   ----- Peak
------------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
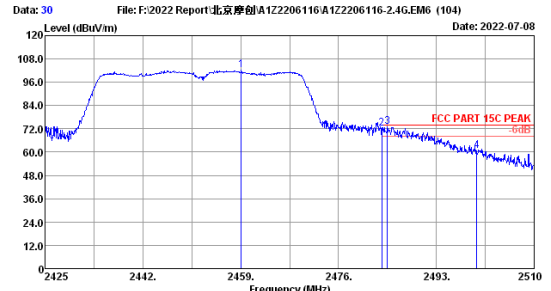
Data: 28   File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)
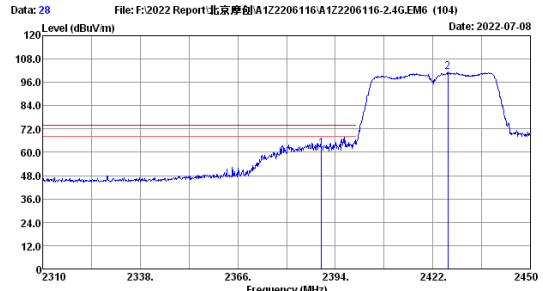

```
Site no.      : 3m Chamber                    Data no.  : 28
Dis. / Ant.   : 3m   2021 MCTD1209-3006       Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.8°C/53.5%                  Engineer  : Allen
Test Mode     : 11n40 2422MHz Tx
```

```
           Ant.   Cable                Amp    Emission
No.  Freq.  Factor Loss  Reading  factor Level  Limits  Margin Remark
     (MHz) (dB/m) (dB)   (dBuV)   (dB)  (dBuV/m) (dBuV/m) (dB)
------------------------------------------------------------------------
 1  2390.00 27.89 3.65   65.73   35.24  62.03   74.00   11.97  Peak
 2  2426.34 27.96 3.67  104.89   35.24 101.28   ------   ----- Peak
------------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```
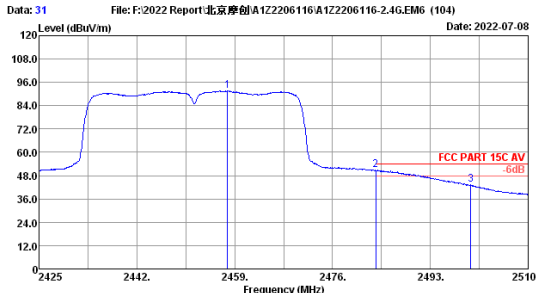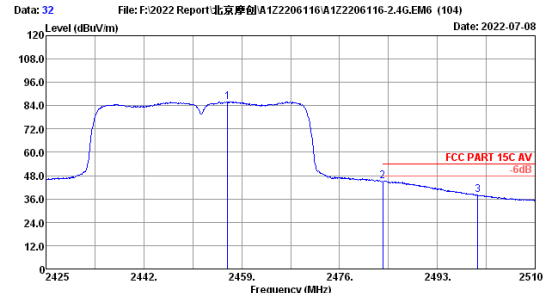
AUDIX Technology (Shenzhen) Co., Ltd.

Data: 29 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Level (dBuV/m) Date: 2022-07-08


```
Site no.      : 3m Chamber              Data no.  : 29
Dis. / Ant.   : 3m   2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.8°C/53.5%            Engineer  : Allen
Test Mode     : 11n40 2452MHz Tx
```

```
              Ant.   Cable            Amp   Emission
No.   Freq.   Factor Loss   Reading   factor Level   Limits  Margin Remark
      (MHz)   (dB/m) (dB)   (dBuV)    (dB)  (dBuV/m) (dBuV/m) (dB)
-----------------------------------------------------------------------
 1  2445.66  28.00  3.68  100.16     35.25  96.59   ------  ------  Peak
 2  2483.50  28.07  3.71   65.46     35.25  61.99   74.00   12.01   Peak
 3  2483.82  28.07  3.71   72.81     35.25  69.34   74.00    4.66   Peak
 4  2500.00  28.10  3.72   57.51     35.25  54.08   74.00   19.92   Peak
-----------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 30 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Level (dBuV/m) Date: 2022-07-08


```
Site no.      : 3m Chamber              Data no.  : 30
Dis. / Ant.   : 3m   2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.8°C/53.5%            Engineer  : Allen
Test Mode     : 11n40 2452MHz Tx
```

```
              Ant.   Cable            Amp   Emission
No.   Freq.   Factor Loss   Reading   factor Level   Limits  Margin Remark
      (MHz)   (dB/m) (dB)   (dBuV)    (dB)  (dBuV/m) (dBuV/m) (dB)
-----------------------------------------------------------------------
 1  2459.09  28.03  3.70  105.87     35.25 102.35   ------  ------  Peak
 2  2483.50  28.07  3.71   75.54     35.25  72.07   74.00    1.93   Peak
 3  2484.50  28.07  3.71   76.36     35.25  72.89   74.00    1.11   Peak
 4  2500.00  28.10  3.72   64.11     35.25  60.68   74.00   13.32   Peak
-----------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 31 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Level (dBuV/m) Date: 2022-07-08


```
Site no.      : 3m Chamber              Data no.  : 31
Dis. / Ant.   : 3m   2021 MCTD1209-3006  Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23.8°C/53.5%            Engineer  : Allen
Test Mode     : 11n40 2452MHz Tx
```

```
              Ant.   Cable            Amp   Emission
No.   Freq.   Factor Loss   Reading   factor Level   Limits  Margin Remark
      (MHz)   (dB/m) (dB)   (dBuV)    (dB)  (dBuV/m) (dBuV/m) (dB)
-----------------------------------------------------------------------
 1  2457.73  28.03  3.70   95.14     35.25  91.62   ------  ------  Average
 2  2483.50  28.07  3.71   54.22     35.25  50.75   54.00    3.25   Average
 3  2500.00  28.10  3.72   46.65     35.25  43.22   54.00   10.78   Average
-----------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Data: 32 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104)

Level (dBuV/m) Date: 2022-07-08


```
Site no.      : 3m Chamber              Data no.  : 32
Dis. / Ant.   : 3m   2021 MCTD1209-3006  Ant. pol. : VERTICAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23.8°C/53.5%            Engineer  : Allen
Test Mode     : 11n40 2452MHz Tx
```

```
              Ant.   Cable            Amp   Emission
No.   Freq.   Factor Loss   Reading   factor Level   Limits  Margin Remark
      (MHz)   (dB/m) (dB)   (dBuV)    (dB)  (dBuV/m) (dBuV/m) (dB)
-----------------------------------------------------------------------
 1  2456.54  28.03  3.70   89.50     35.25  85.98   ------  ------  Average
 2  2483.50  28.07  3.71   48.57     35.25  45.10   54.00    8.90   Average
 3  2500.00  28.10  3.72   41.31     35.25  37.88   54.00   16.12   Average
-----------------------------------------------------------------------
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
            -Amp factor.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

7. 6dB & 99% Bandwidth Test

7.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

Use the test method descried in ANSI C63.10 Section 11.8:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq$ 3 $\times$ RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$6 dB.

Use the test method descried in ANSI C63.10 Section 6.9.2:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

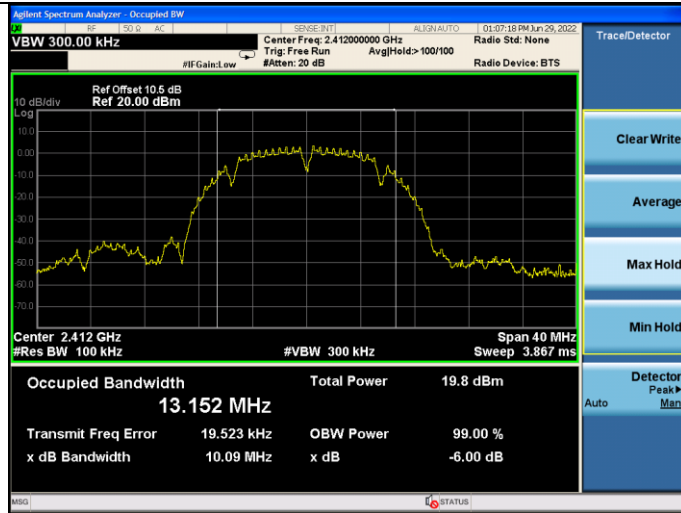**AUDIX Technology (Shenzhen) Co., Ltd.**

7.4.Test Results

EUT: Truck Infotainment Unit		
M/N: Service Entertainment Module 2.5		
Test date: 2022-06-29	Pressure: 102.1 ±1.0 kpa	Humidity: 53.2 ±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.3 ±0.6℃

Test Mode	CH	-6dB Bandwidth(MHz)		Limit (KHz)
		ANT1	ANT2	
11b	CH1	10.09	10.10	≧500
	CH6	10.10	10.10	
	CH11	10.11	10.10	
11g	CH1	16.40	16.41	≧500
	CH6	16.39	16.40	
	CH11	16.40	16.39	
11n HT20	CH1	17.58	17.60	≧500
	CH6	17.56	17.57	
	CH11	17.56	17.59	
11n HT40	CH3	35.77	35.76	≧500
	CH6	35.78	35.70	
	CH9	35.86	35.78	
Conclusion:Pass				

ANT1:	ANT2:
Test Mode: IEEE 802.11b	Test Mode: IEEE 802.11b
Test CH1: 2412MHz	Test CH1: 2412MHz
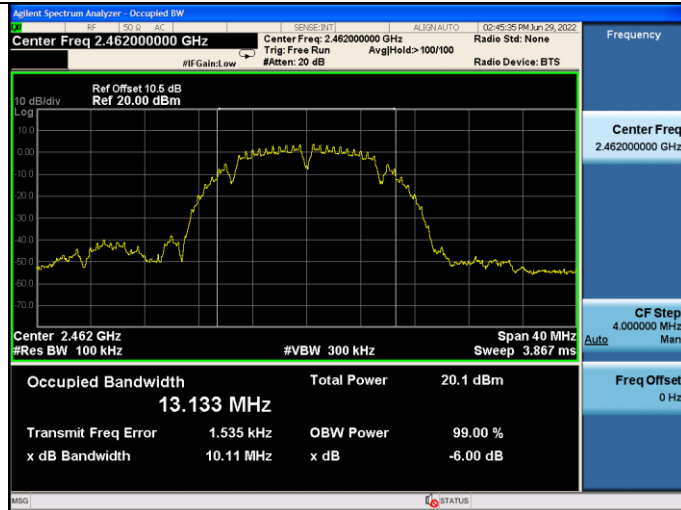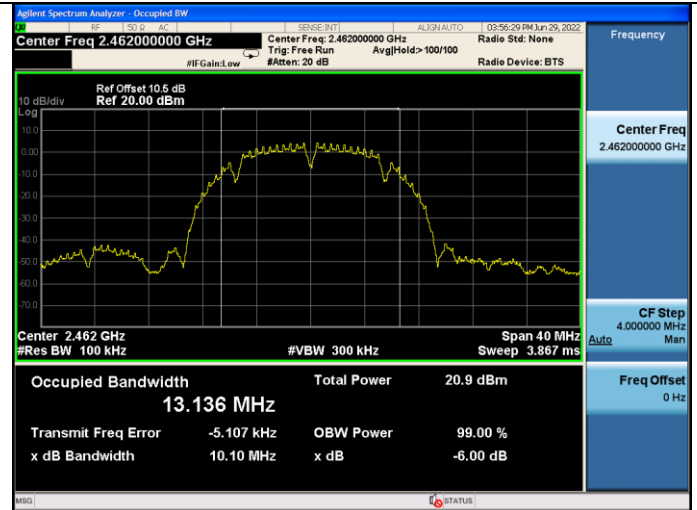
Test CH6: 2437MHz	Test CH6: 2437MHz

Test CH11: 2462MHz	Test CH11: 2462MHz

ANT1:	ANT2:
Test Mode: IEEE 802.11g Test CH1: 2412MHz	Test Mode: IEEE 802.11g Test CH1: 2412MHz

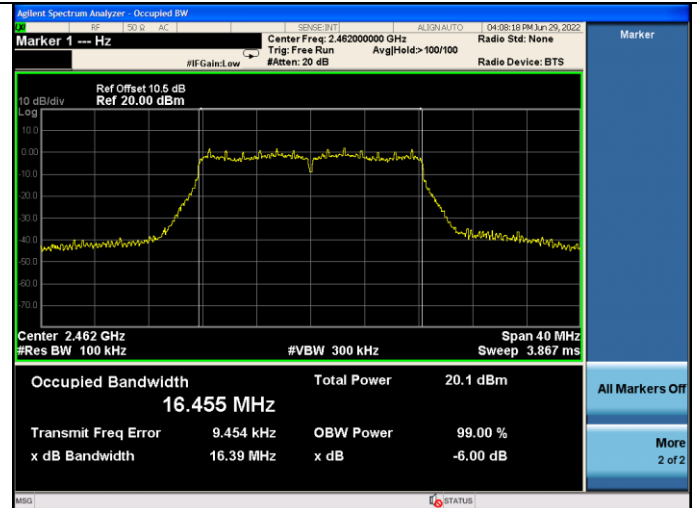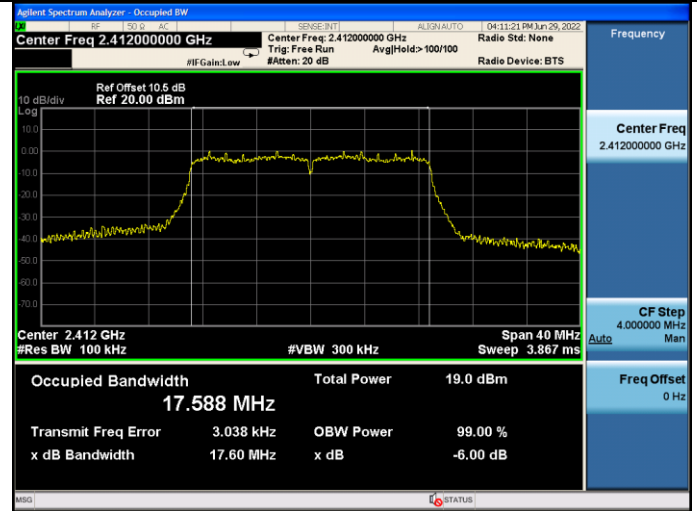| Test CH6: 2437MHz	Test CH6: 2437MHz

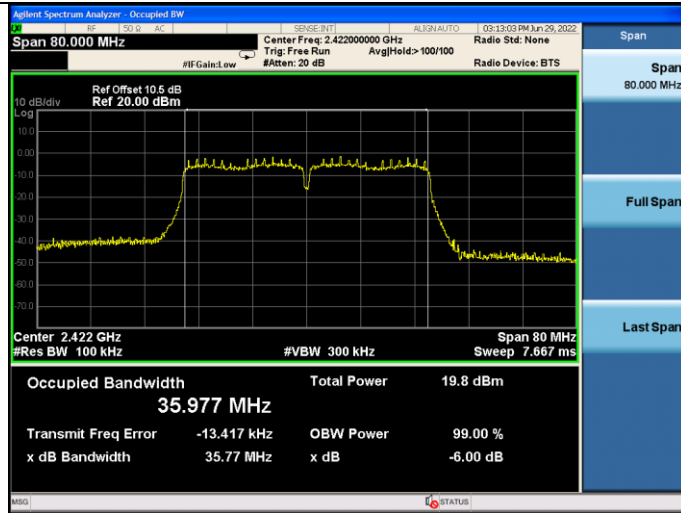| Test CH11: 2462MHz	Test CH11: 2462MHz

ANT1:	ANT2:
Test Mode: IEEE 802.11n HT20 Test CH1: 2412MHz	Test Mode: IEEE 802.11n HT20 Test CH1: 2412MHz

Occupied Bandwidth 17.575 MHz — Total Power 19.6 dBm — Transmit Freq Error 7.498 kHz — OBW Power 99.00 % — x dB Bandwidth 17.58 MHz — x dB -6.00 dB

Occupied Bandwidth 17.588 MHz — Total Power 19.0 dBm — Transmit Freq Error 3.038 kHz — OBW Power 99.00 % — x dB Bandwidth 17.60 MHz — x dB -6.00 dB

Test CH6: 2437MHz	Test CH6: 2437MHz

Occupied Bandwidth 17.568 MHz — Total Power 19.6 dBm — Transmit Freq Error 5.858 kHz — OBW Power 99.00 % — x dB Bandwidth 17.56 MHz — x dB -6.00 dB

Occupied Bandwidth 17.578 MHz — Total Power 19.5 dBm — Transmit Freq Error 3.012 kHz — OBW Power 99.00 % — x dB Bandwidth 17.57 MHz — x dB -6.00 dB

Test CH11: 2462MHz	Test CH11: 2462MHz

Occupied Bandwidth 17.573 MHz — Total Power 19.6 dBm — Transmit Freq Error 3.190 kHz — OBW Power 99.00 % — x dB Bandwidth 17.56 MHz — x dB -6.00 dB

Occupied Bandwidth 17.578 MHz — Total Power 20.0 dBm — Transmit Freq Error 2.358 kHz — OBW Power 99.00 % — x dB Bandwidth 17.59 MHz — x dB -6.00 dB
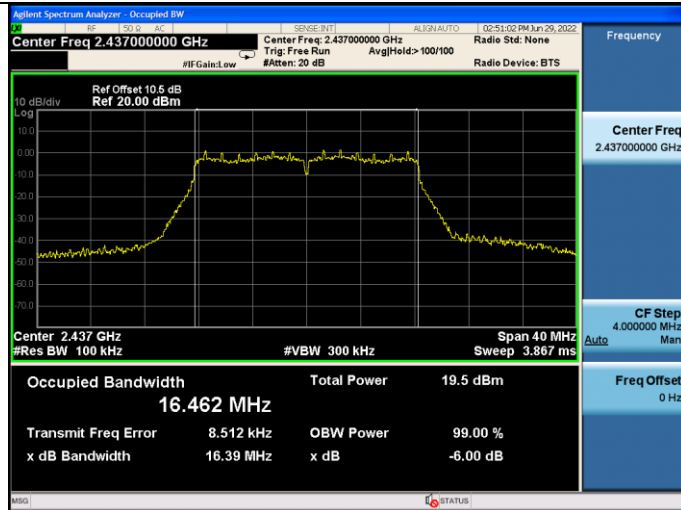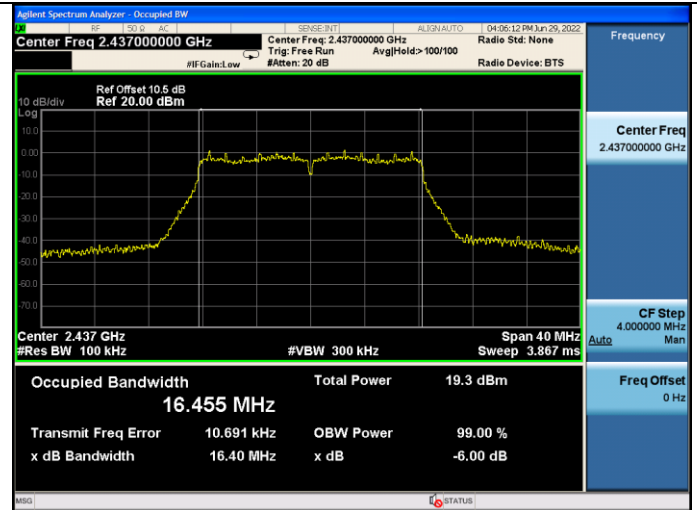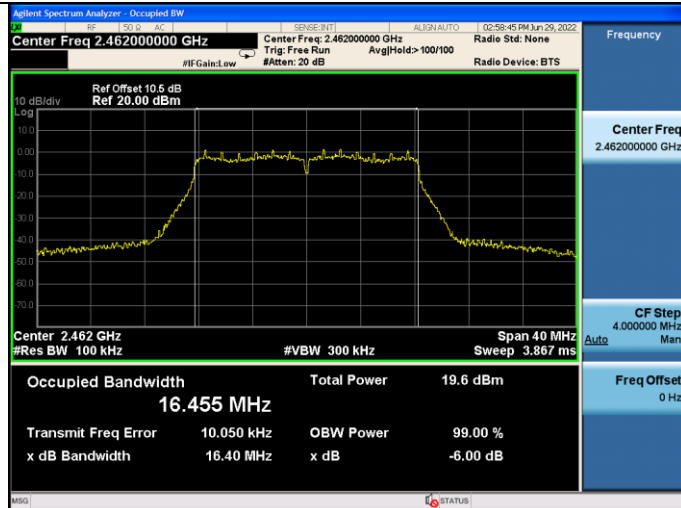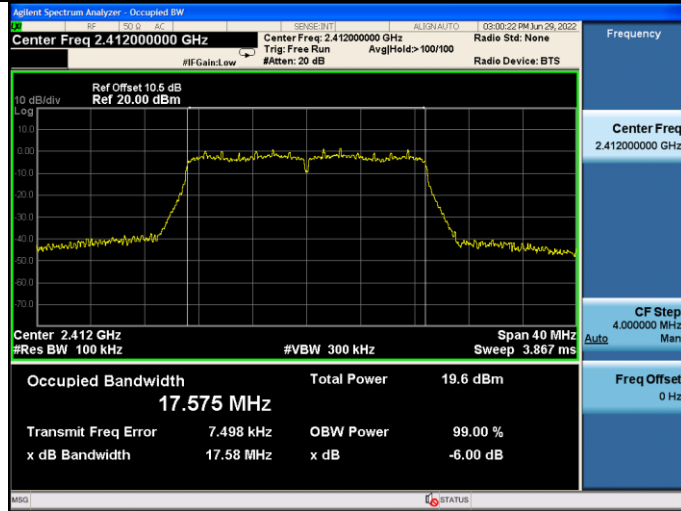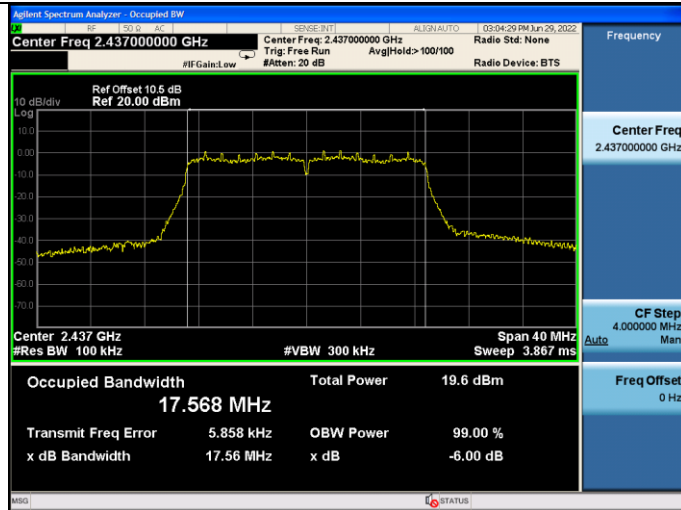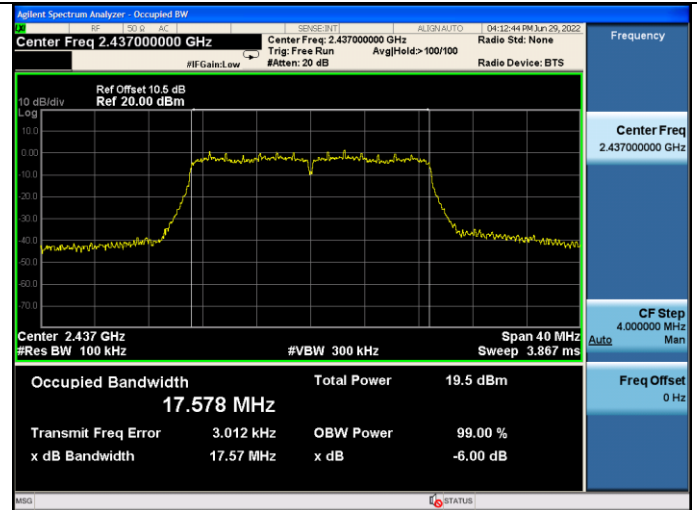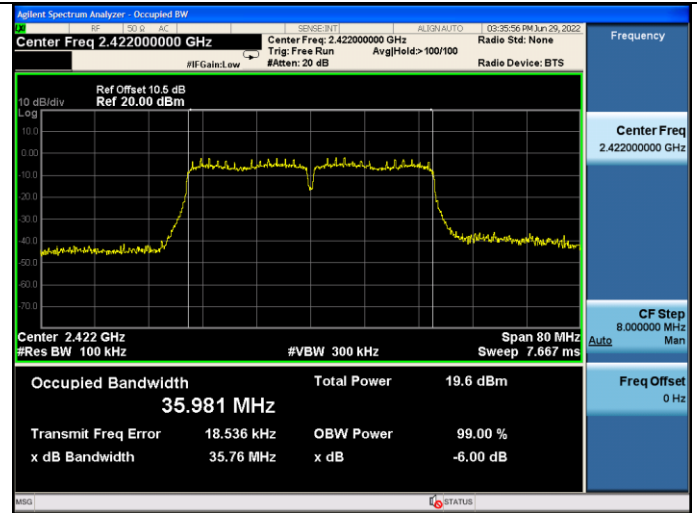
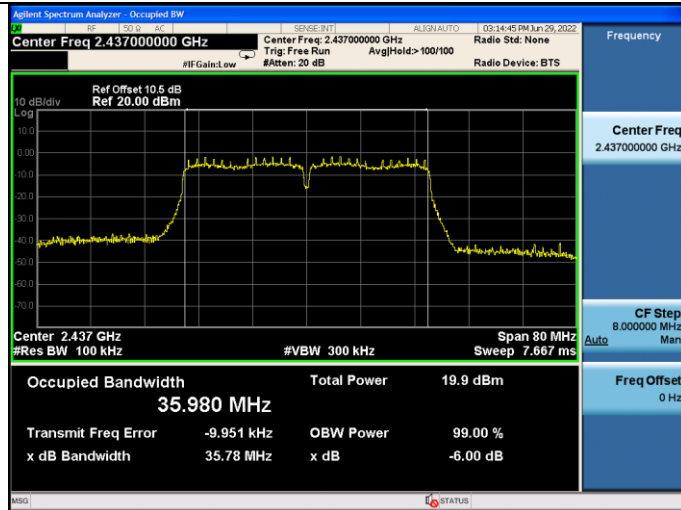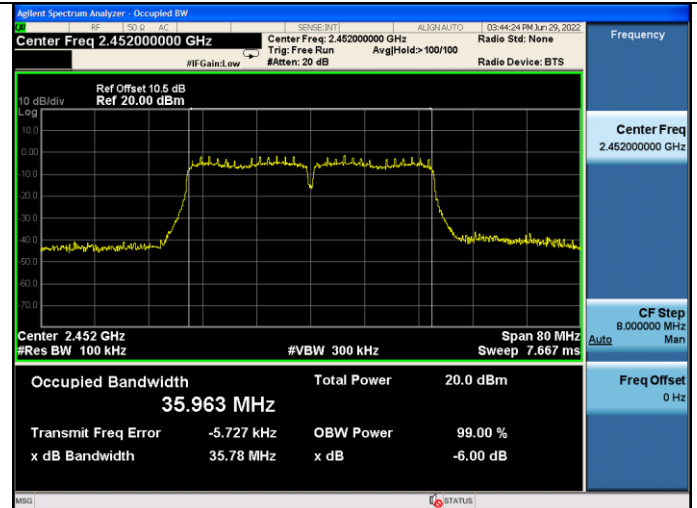| ANT1:	ANT2:
Test Mode: IEEE 802.11n HT40 Test CH3: 2422MHz	Test Mode: IEEE 802.11n HT40 Test CH3: 2422MHz
Test CH6: 2437MHz	Test CH6: 2437MHz
Test CH9: 2452MHz	Test CH9: 2452MHz

AUDIX Technology (Shenzhen) Co., Ltd.

EUT: Truck Infotainment Unit		
M/N: Service Entertainment Module 2.5		
Test date: 2022-06-28~29	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.3±0.6℃

Test Mode	CH	99%Bandwidth(MHz)		Limit (MHz)
		ANT1	ANT2	
11b	CH1	13.172	13.175	N/A
	CH6	13.164	13.162	
	CH11	13.178	13.174	
11g	CH1	16.561	16.603	N/A
	CH6	16.535	16.531	
	CH11	16.540	16.545	
11n HT20	CH1	17.599	17.635	N/A
	CH6	17.594	17.611	
	CH11	17.607	17.609	
11n HT40	CH3	36.021	36.012	N/A
	CH6	36.010	36.001	
	CH9	36.001	36.030	
Conclusion:Pass				