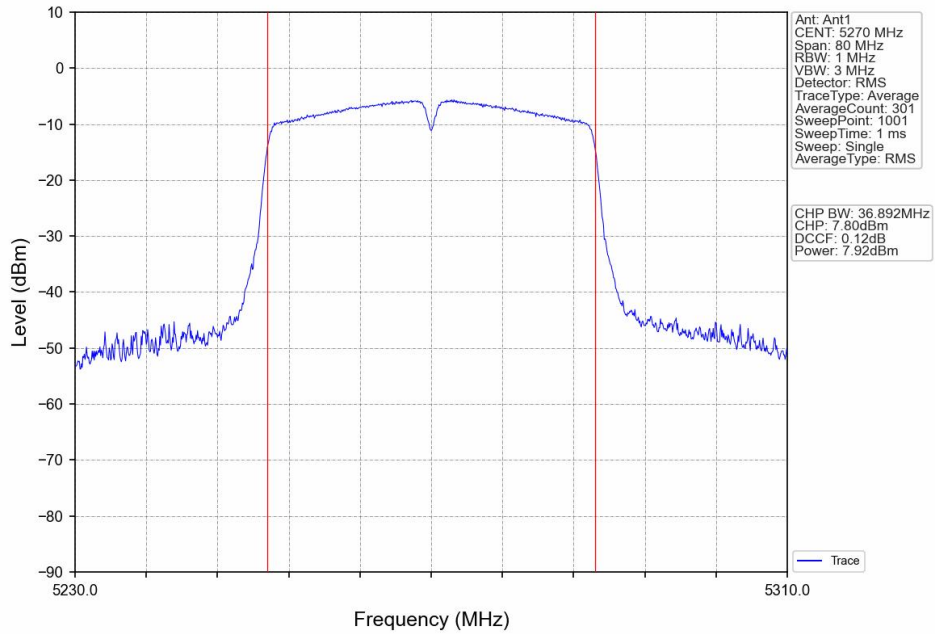
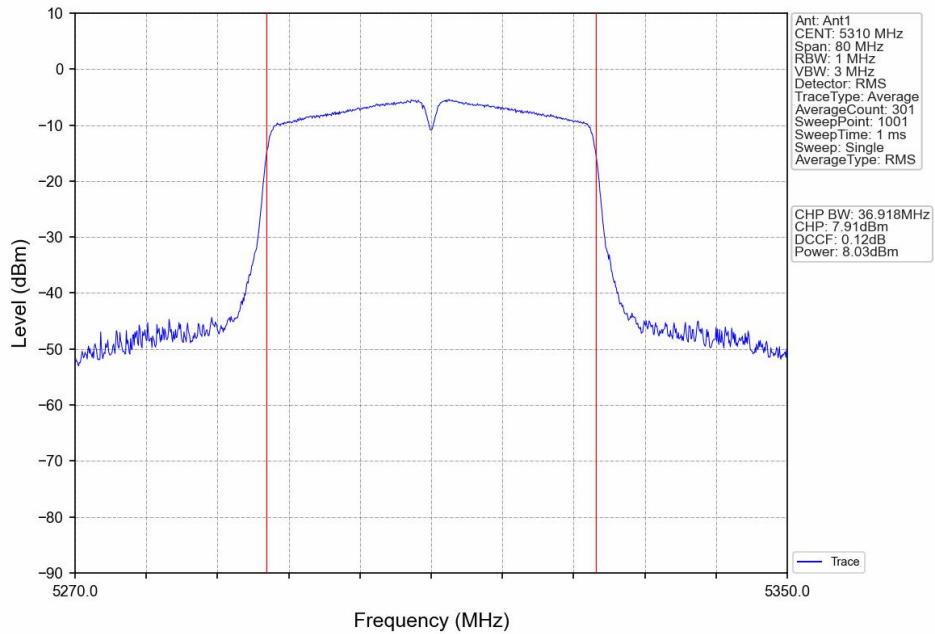


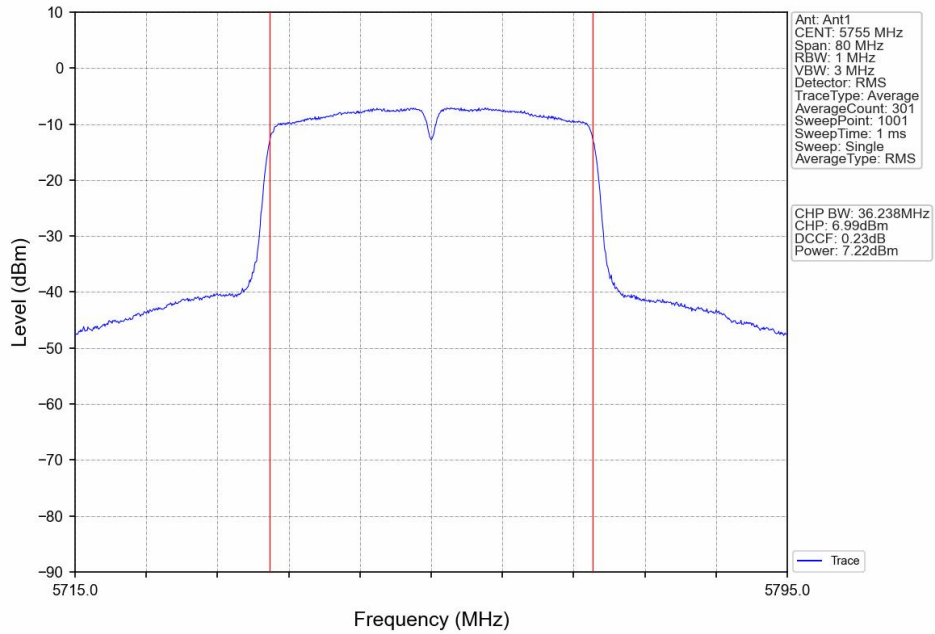
802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



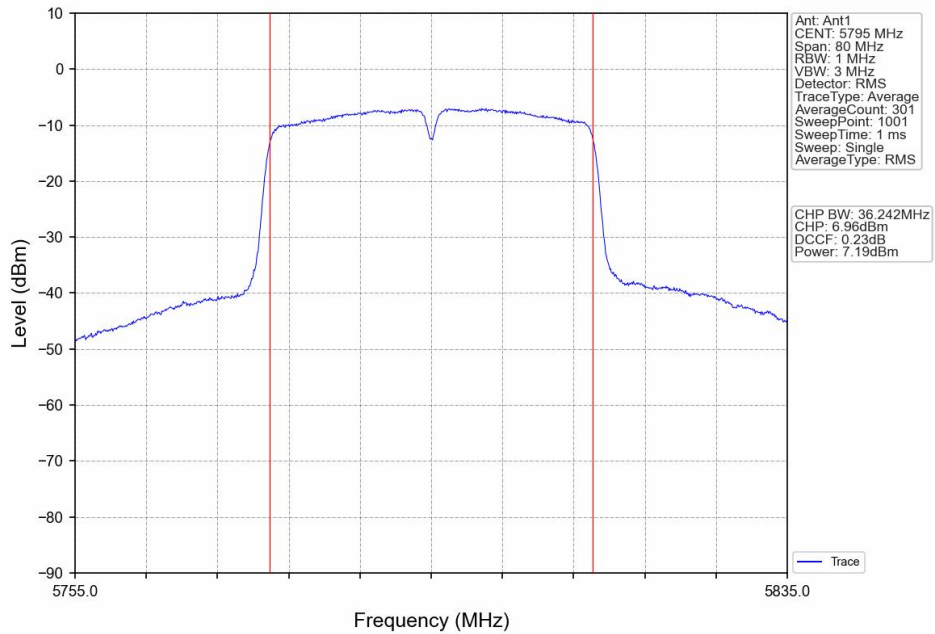
802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



## 12 4. Maximum Power Spectral Density

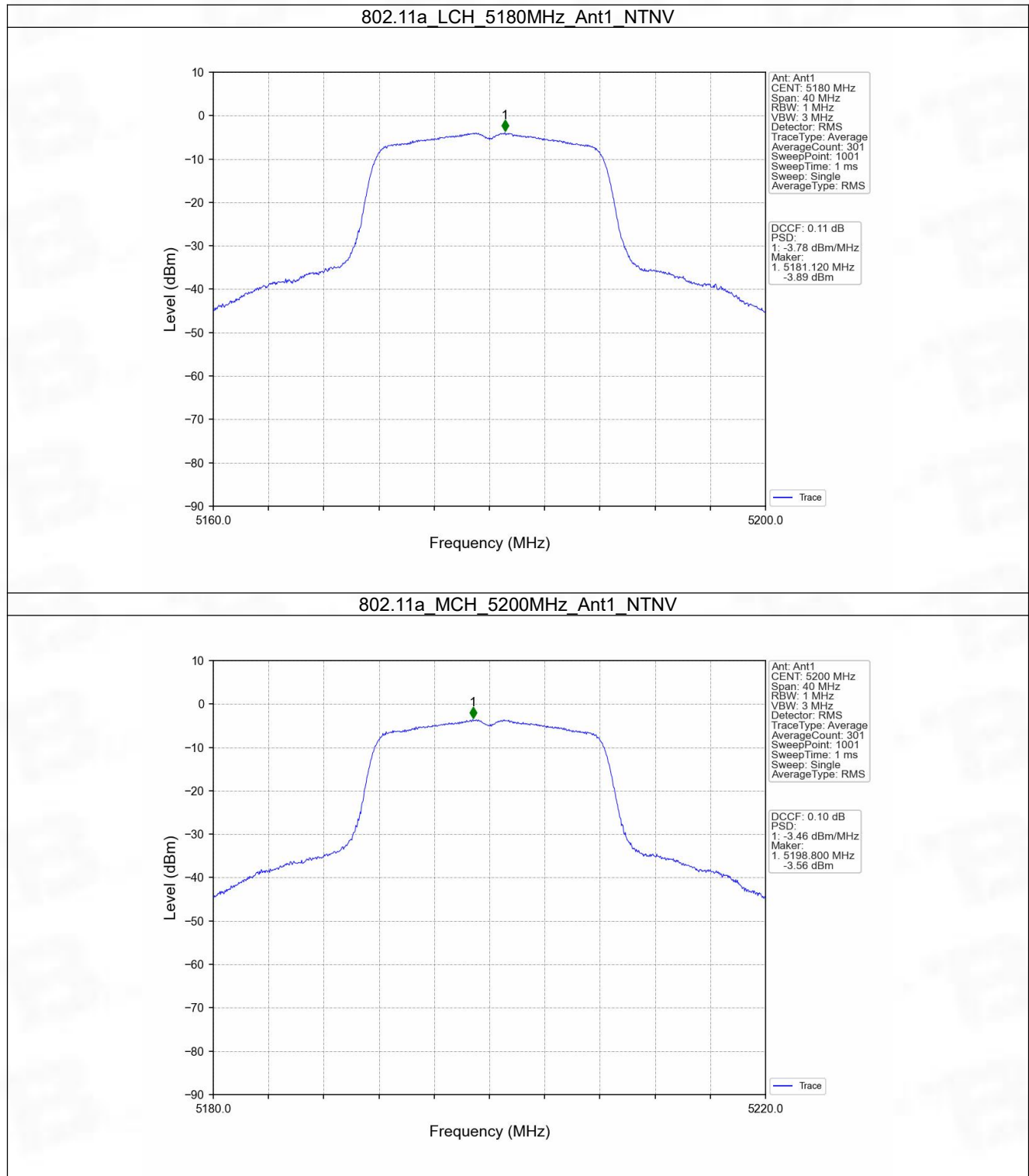
### 12.1 4.1 PSD

#### 12.1.14.1.1 Test Result

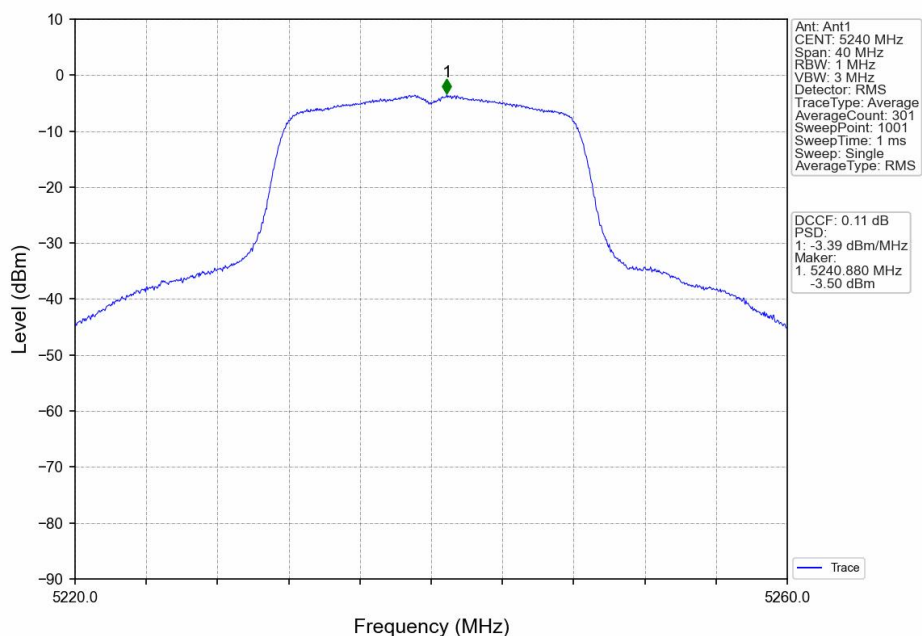
| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) |       | Verdict |
|----------------|---------|-----------------|-----------------------|-------|---------|
|                |         |                 | ANT1                  | Limit |         |
| 802.11a        | SISO    | 5180            | -3.78                 | <=11  | Pass    |
|                |         | 5200            | -3.46                 | <=11  | Pass    |
|                |         | 5240            | -3.39                 | <=11  | Pass    |
|                |         | 5260            | 3.93                  | <=11  | Pass    |
|                |         | 5300            | -0.98                 | <=11  | Pass    |
|                |         | 5320            | -1.01                 | <=11  | Pass    |
| 802.11n (HT20) | SISO    | 5180            | -3.91                 | <=11  | Pass    |
|                |         | 5200            | -4.20                 | <=11  | Pass    |
|                |         | 5240            | -3.97                 | <=11  | Pass    |
|                |         | 5260            | -6.22                 | <=11  | Pass    |
|                |         | 5300            | -5.98                 | <=11  | Pass    |
|                |         | 5320            | -2.42                 | <=11  | Pass    |
| 802.11n (HT40) | SISO    | 5190            | -7.14                 | <=11  | Pass    |
|                |         | 5230            | -7.27                 | <=11  | Pass    |
|                |         | 5270            | -2.59                 | <=11  | Pass    |
|                |         | 5310            | -2.65                 | <=11  | Pass    |

Note1: Antenna Gain: Ant1: 1.12dBi;

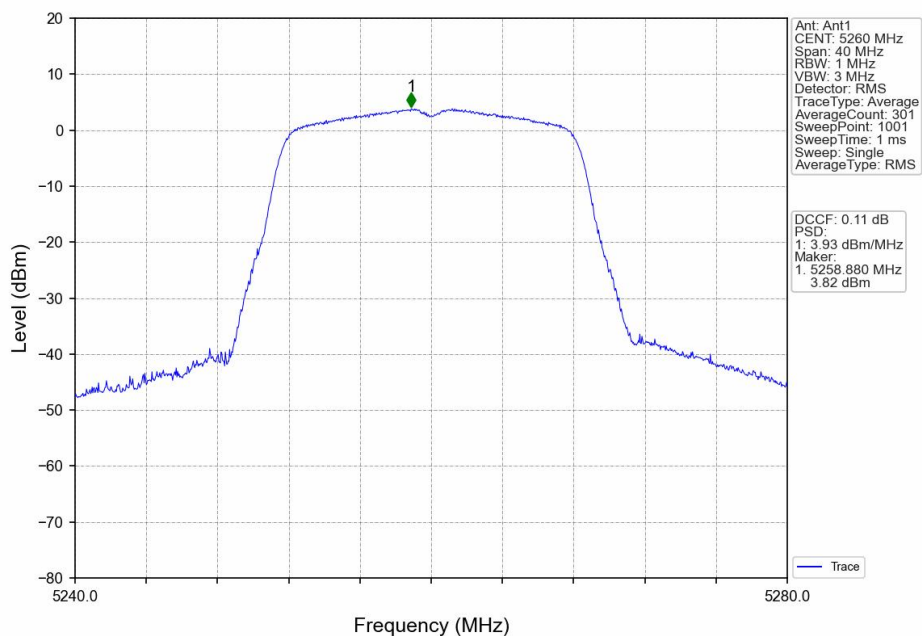
#### 4.1.2 Test Graph



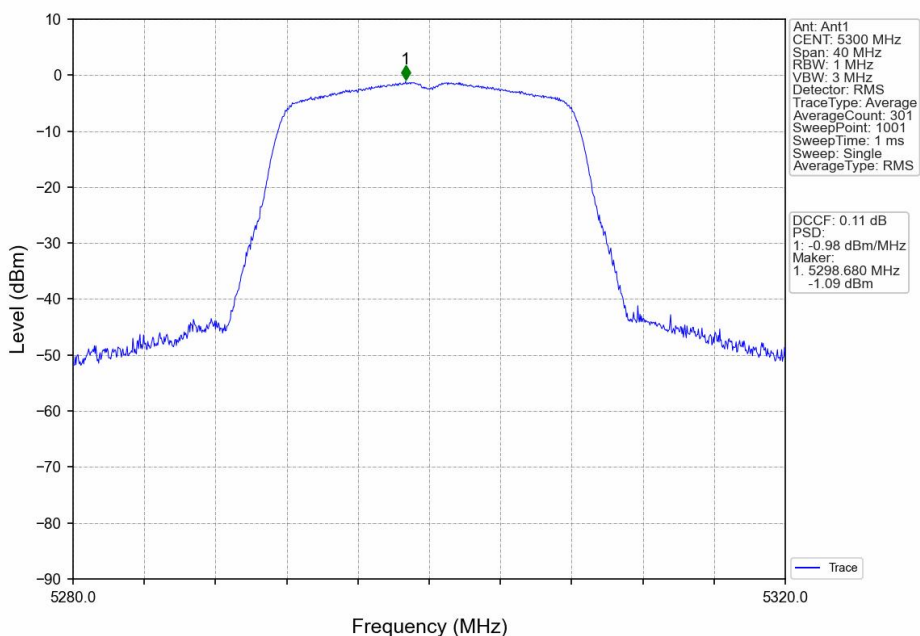
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



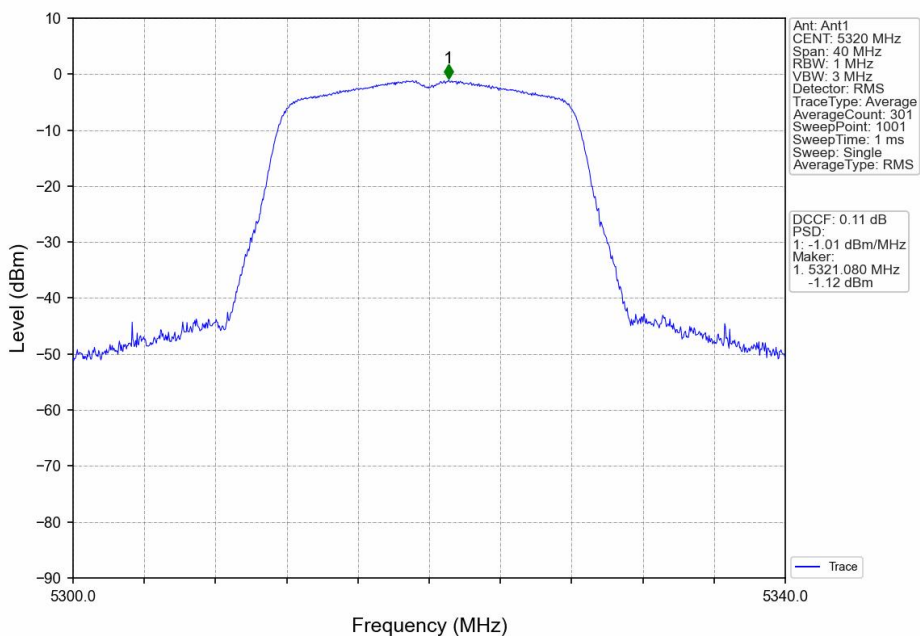
802.11a\_LCH\_5260MHz\_Ant1\_NTNV



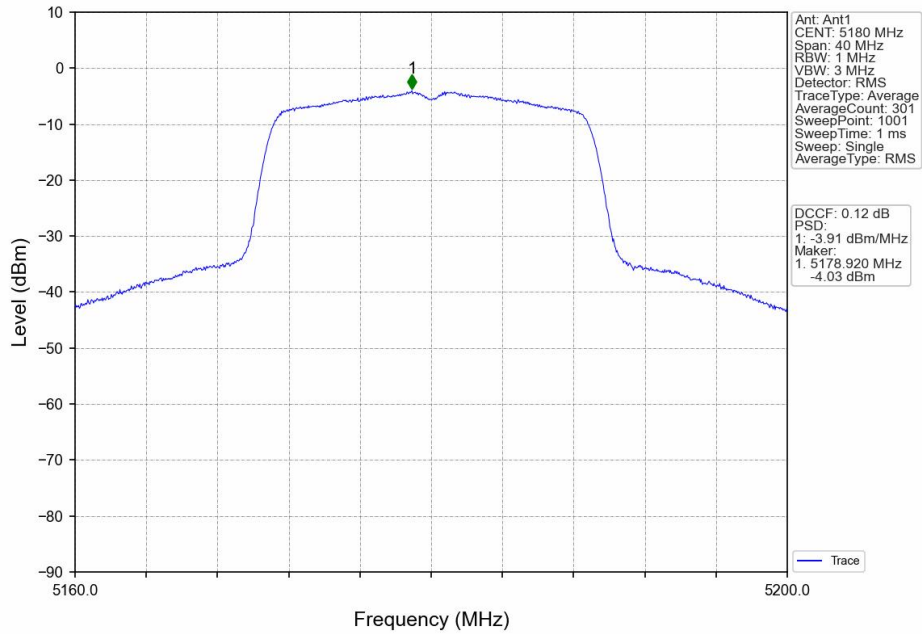
802.11a\_MCH\_5300MHz\_Ant1\_NTNV



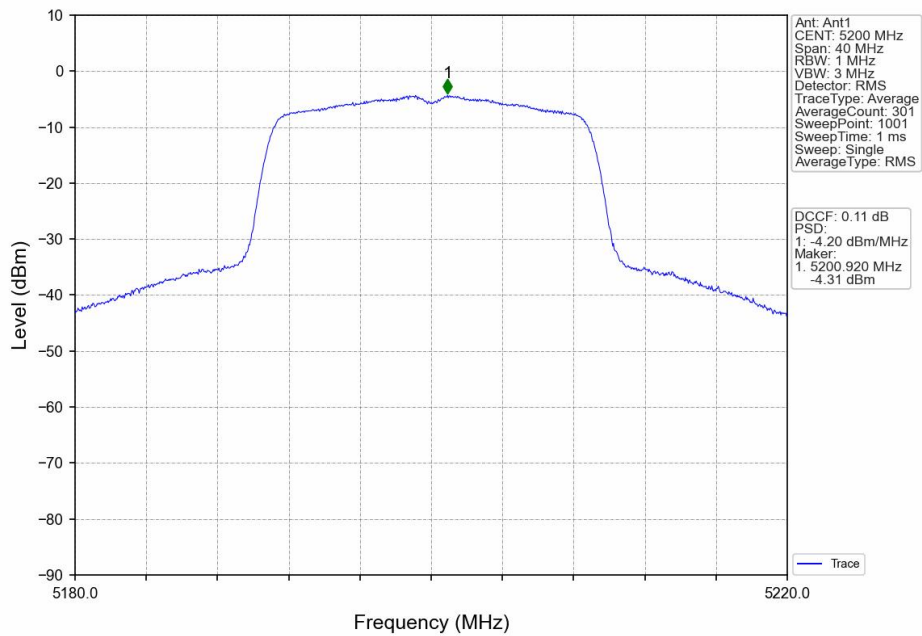
802.11a\_HCH\_5320MHz\_Ant1\_NTNV



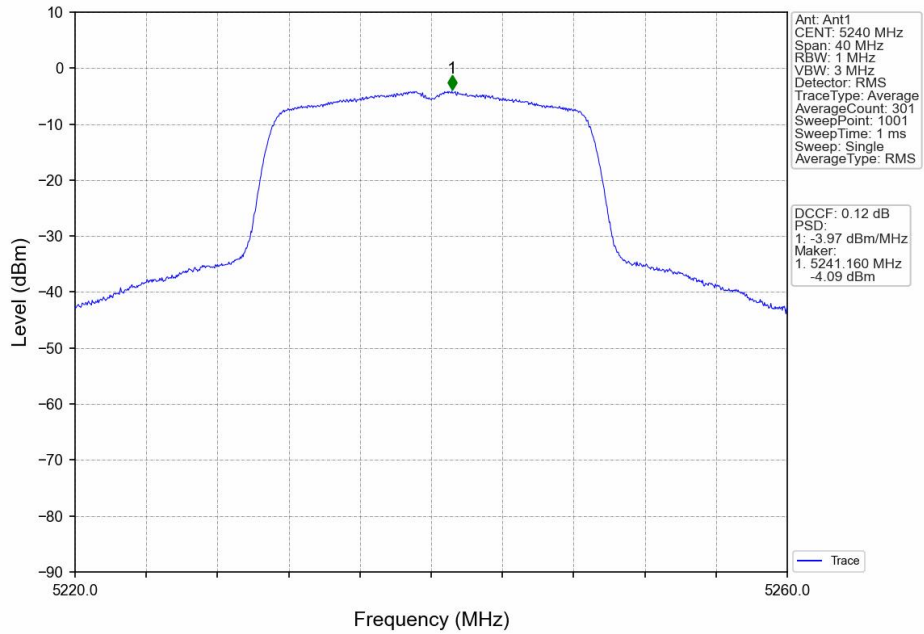
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



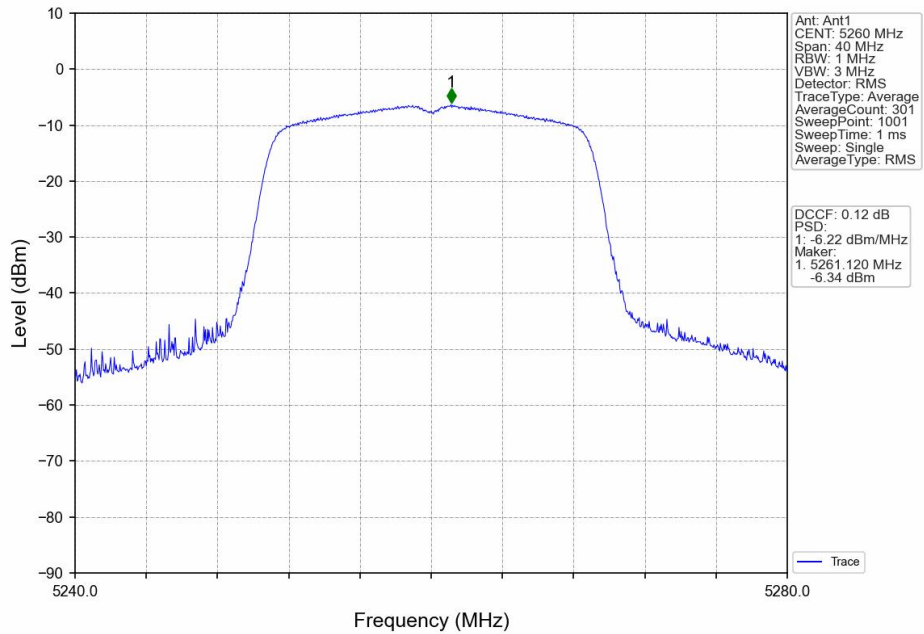
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



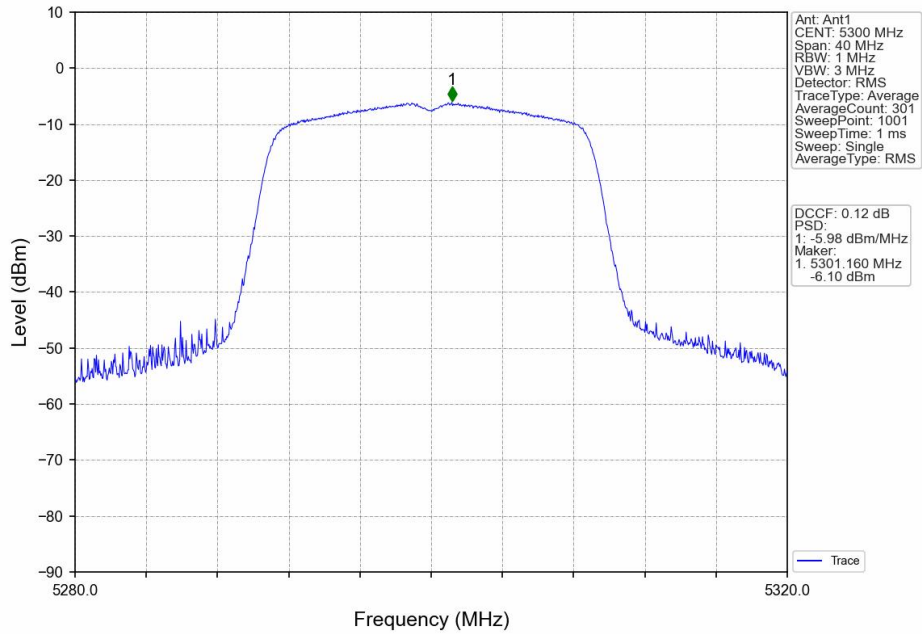
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



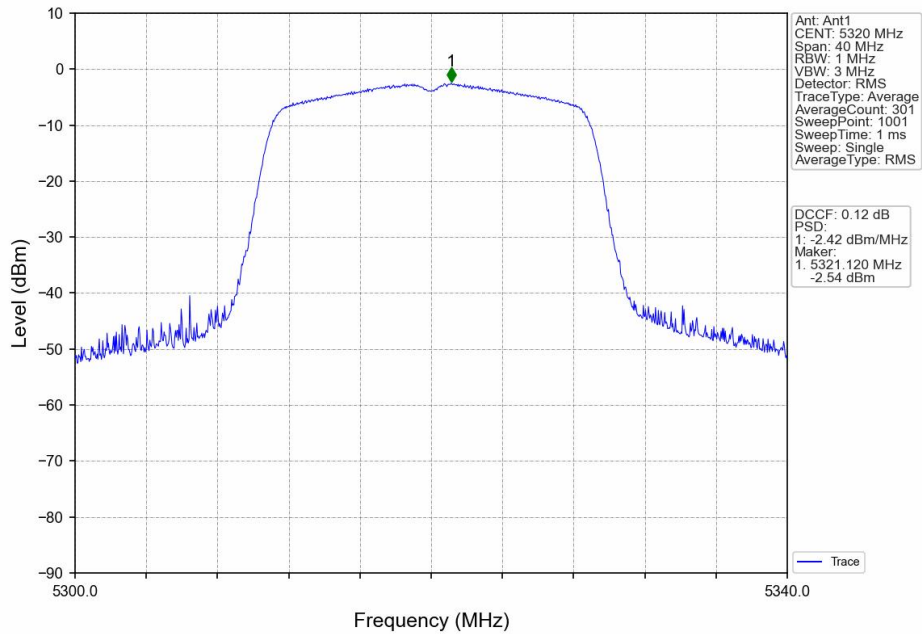
802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



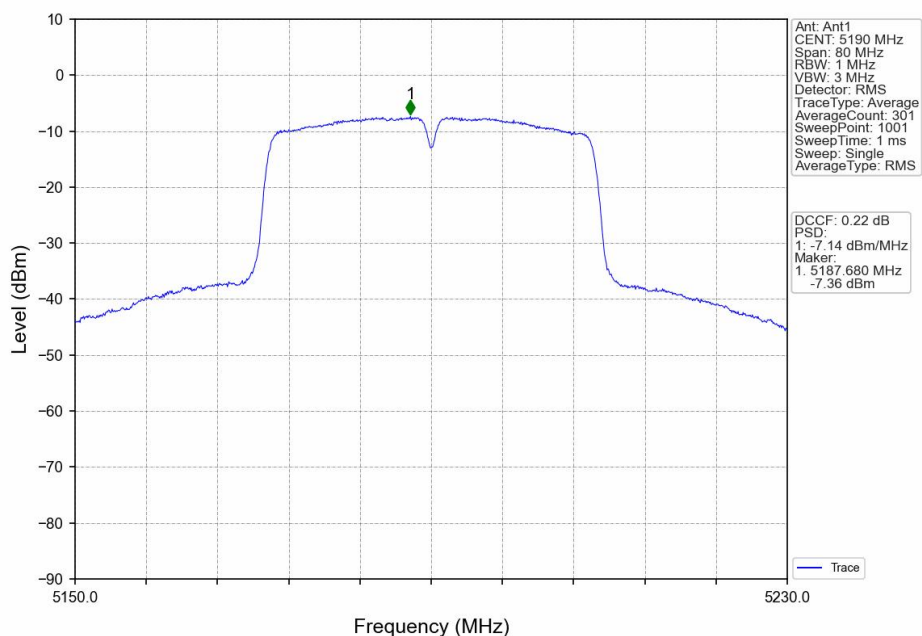
802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



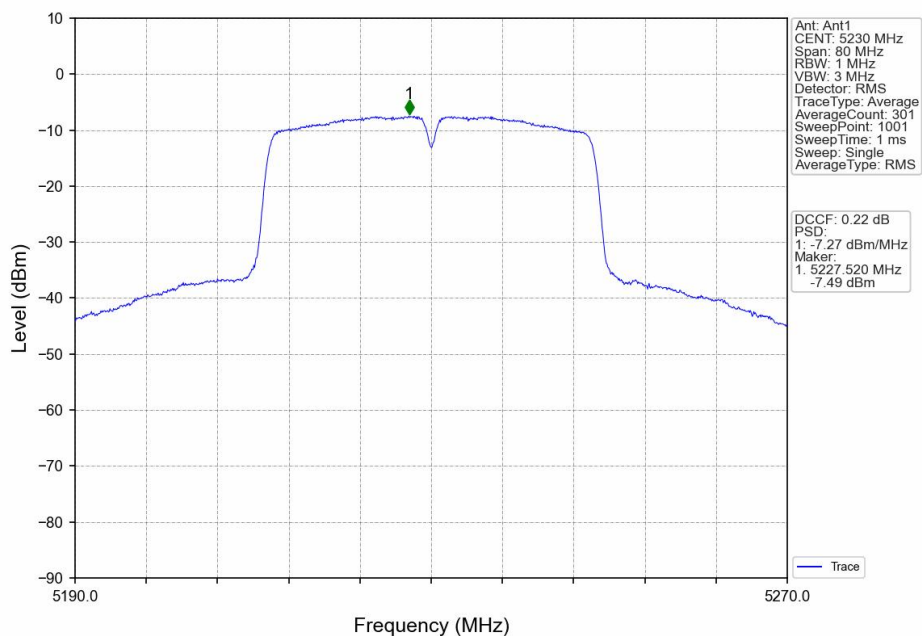
802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTNV



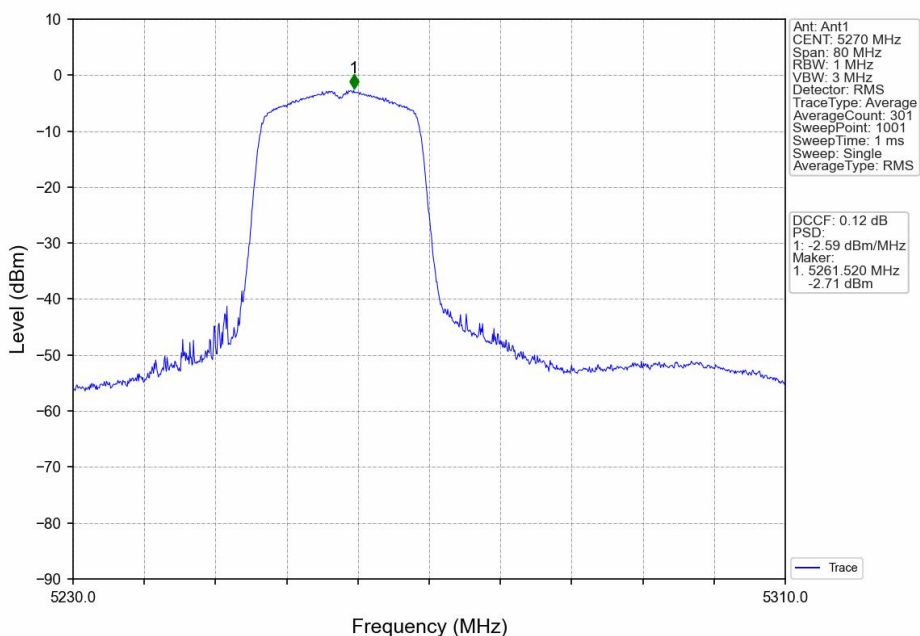
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



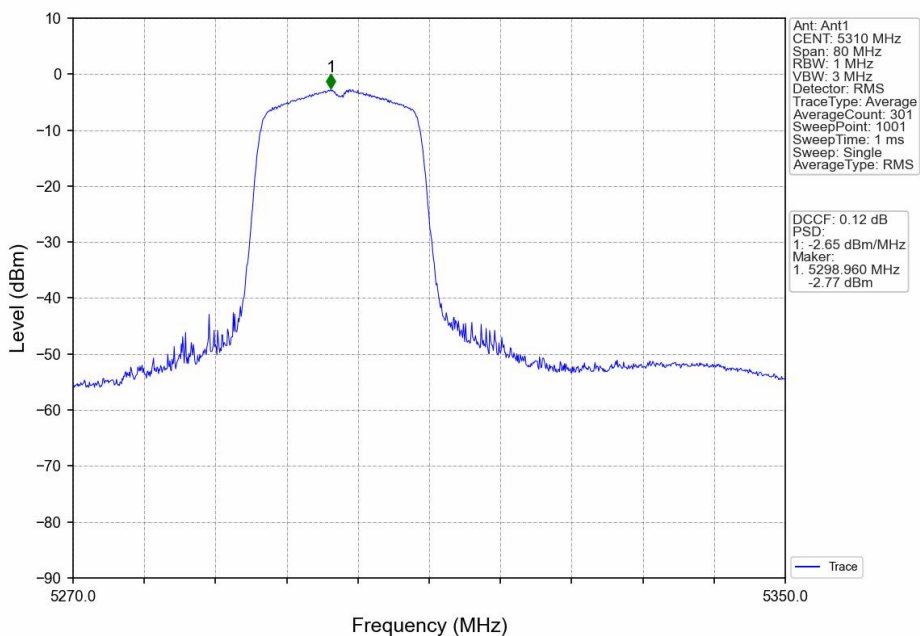
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



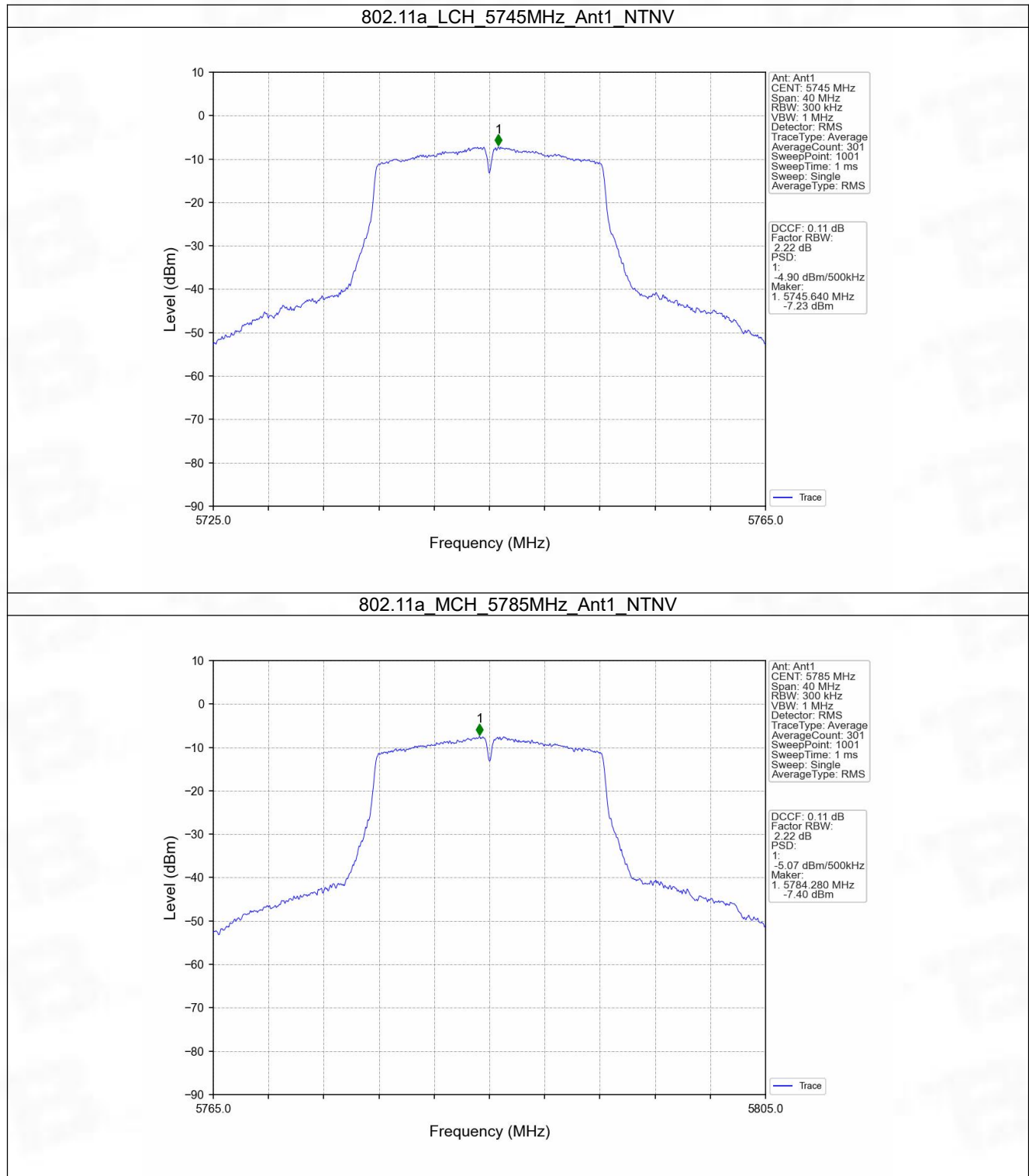
## 12.2 4.2 PSD-Band3

### 12.2.14.2.1 Test Result

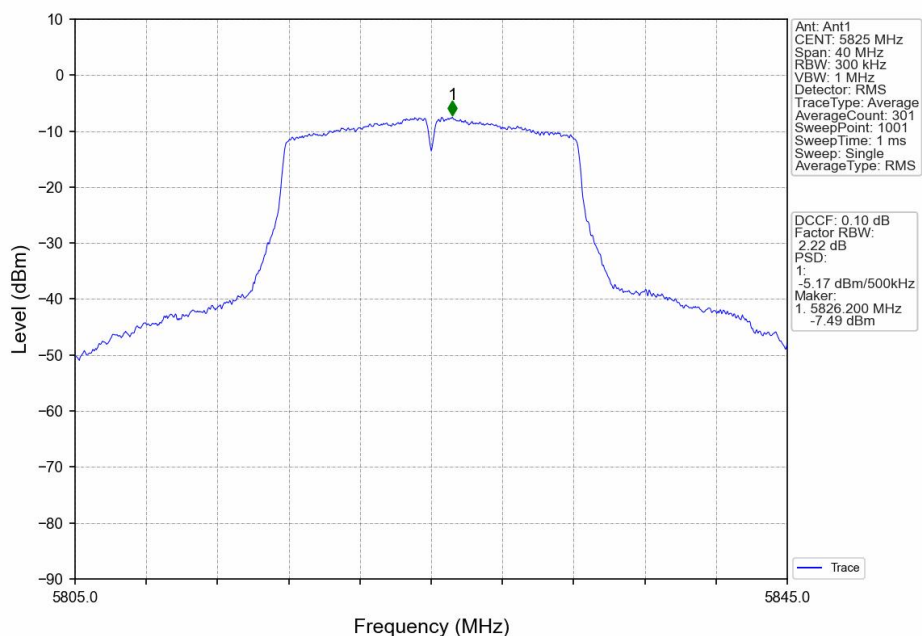
| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) |       | Verdict |
|----------------|---------|-----------------|--------------------------|-------|---------|
|                |         |                 | ANT1                     | Limit |         |
| 802.11a        | SISO    | 5745            | -4.90                    | <=30  | Pass    |
|                |         | 5785            | -5.07                    | <=30  | Pass    |
|                |         | 5825            | -5.17                    | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 5745            | -5.82                    | <=30  | Pass    |
|                |         | 5785            | -5.89                    | <=30  | Pass    |
|                |         | 5825            | -5.89                    | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 5755            | -9.72                    | <=30  | Pass    |
|                |         | 5795            | -9.76                    | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.12dBi;

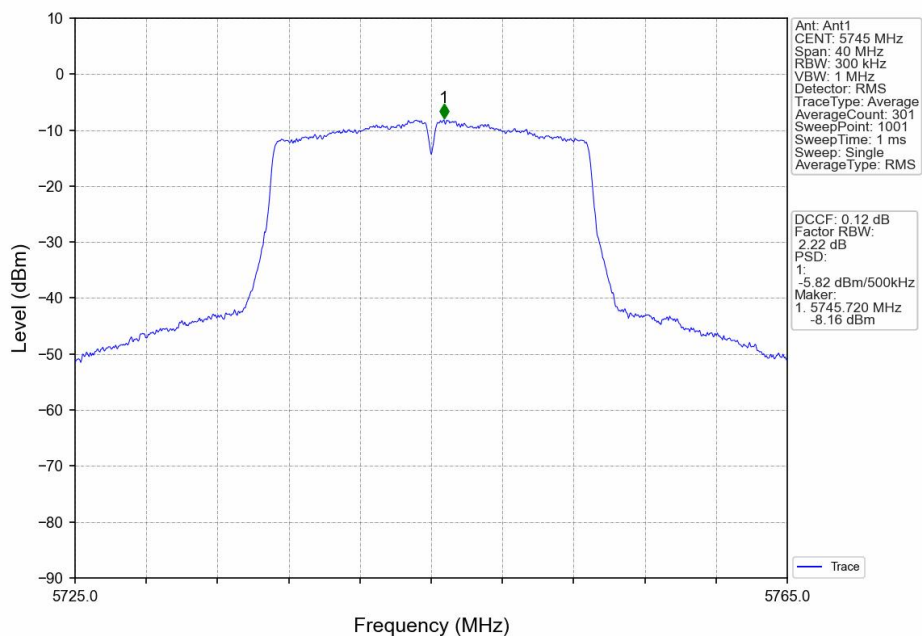
## 4.2.2 Test Graph



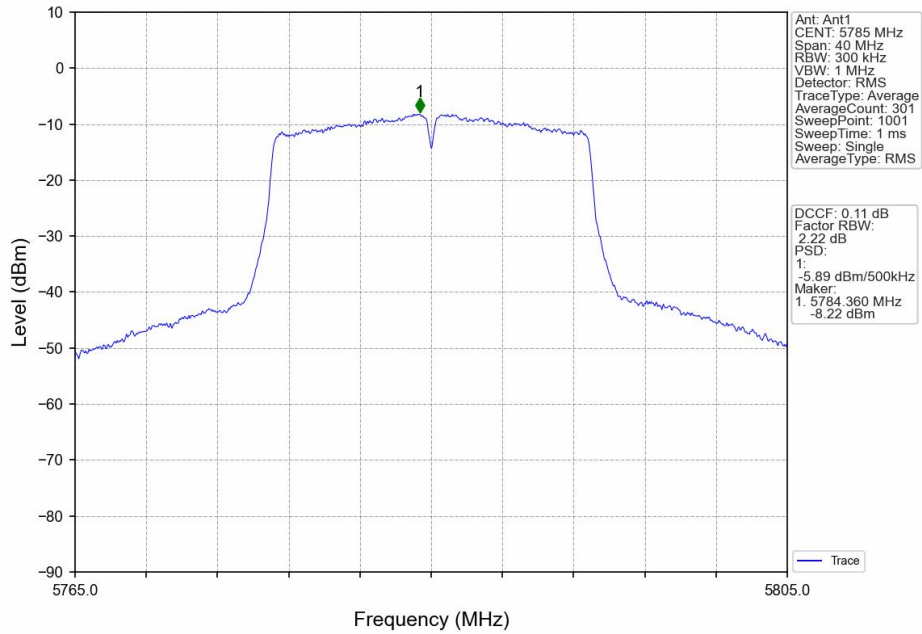
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



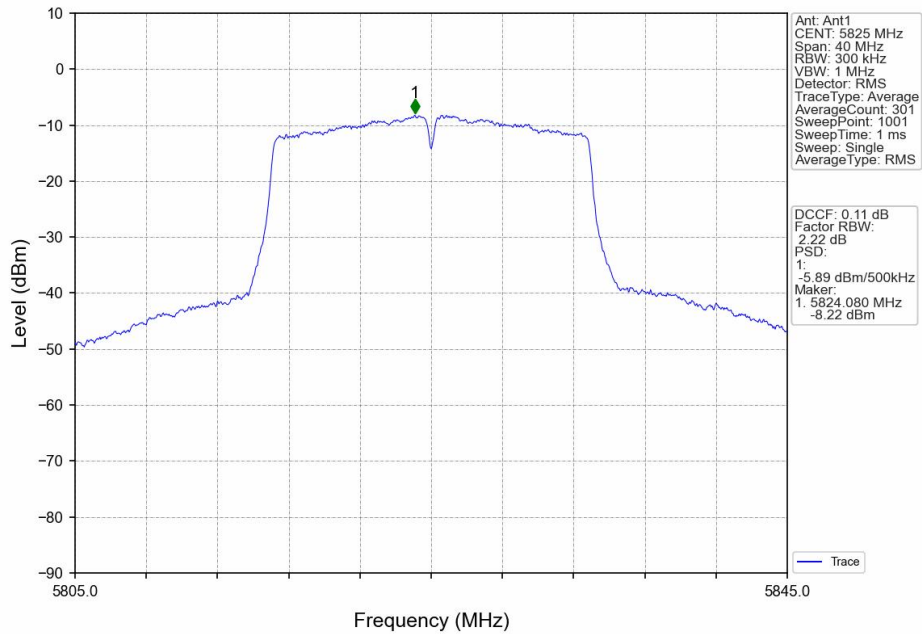
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



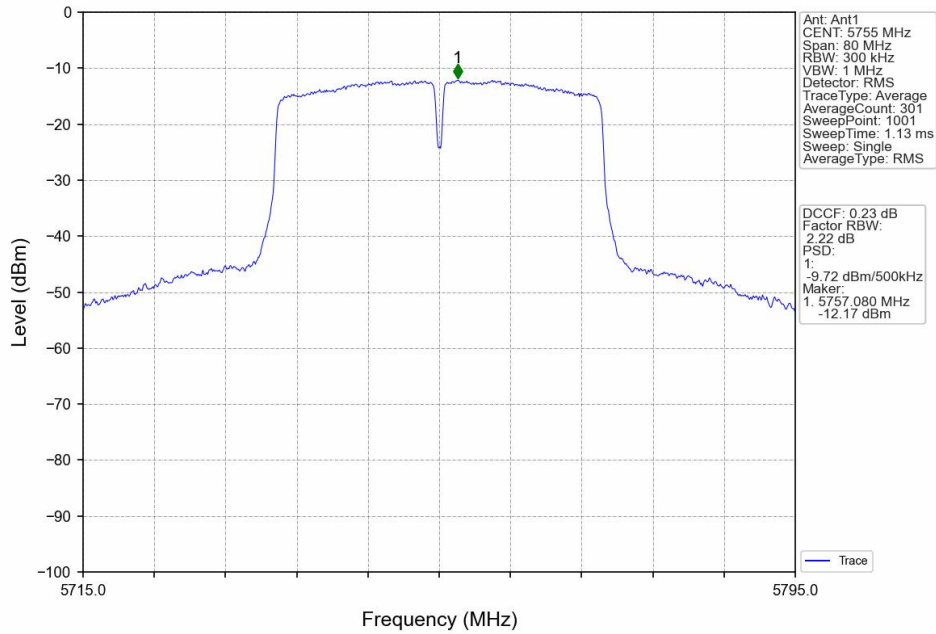
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



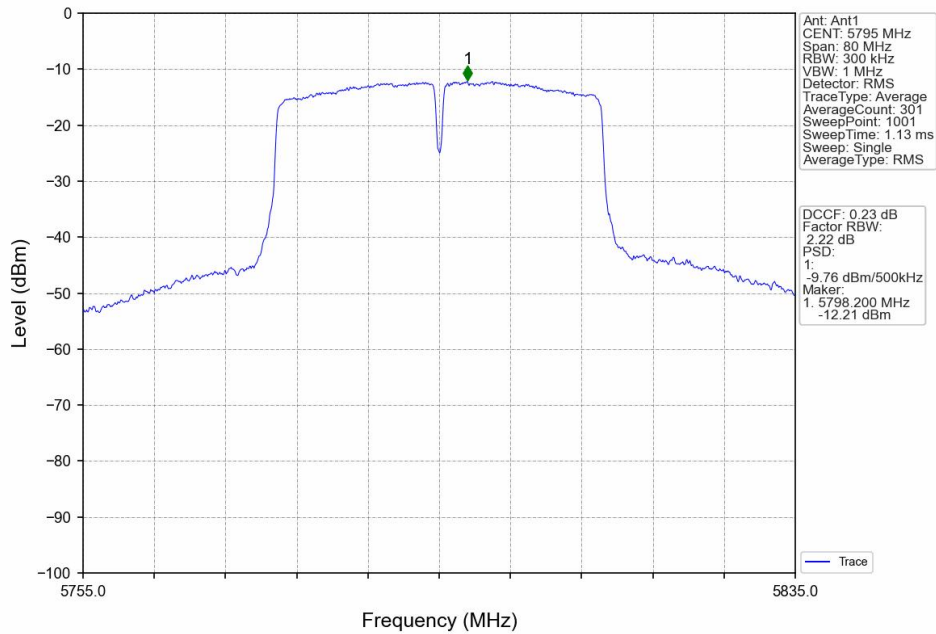
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



## 13 5. Frequency Stability

### 13.1 5.1 Ant1

#### 13.1.15.1.1 Test Result

| Mode         | TX Type | Frequency (MHz) | Temperature (°C) | Ant1          |                          | Limit (MHz)  | Verdict |
|--------------|---------|-----------------|------------------|---------------|--------------------------|--------------|---------|
|              |         |                 |                  | Voltage (VAC) | Measured Frequency (MHz) |              |         |
| Carrier Wave | SISO    | 5180            | 20               | 102           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5179.994                 | 5150 to 5250 | Pass    |
|              |         | 5200            | 20               | 102           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5199.994                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5199.993                 | 5150 to 5250 | Pass    |
|              |         | 5240            | 20               | 102           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5239.993                 | 5150 to 5250 | Pass    |
|              |         | 5260            | 20               | 102           | 5259.969                 | 5250 to 5350 | Pass    |
|              |         |                 |                  | 120           | 5259.968                 | 5250 to 5350 | Pass    |
|              |         |                 |                  | 138           | 5259.968                 | 5250 to 5350 | Pass    |
|              |         |                 | -30              | 120           | 5259.968                 | 5250 to 5350 | Pass    |
|              |         |                 | -20              | 120           | 5259.968                 | 5250 to 5350 | Pass    |
|              |         |                 | -10              | 120           | 5259.967                 | 5250 to 5350 | Pass    |
|              |         |                 | 0                | 120           | 5259.967                 | 5250 to 5350 | Pass    |
|              |         |                 | 10               | 120           | 5259.967                 | 5250 to 5350 | Pass    |
|              |         |                 | 30               | 120           | 5259.967                 | 5250 to 5350 | Pass    |
|              |         |                 | 40               | 120           | 5259.967                 | 5250 to 5350 | Pass    |
|              |         |                 | 50               | 120           | 5259.967                 | 5250 to 5350 | Pass    |
|              |         | 5300            | 20               | 102           | 5299.966                 | 5250 to 5350 | Pass    |
|              |         |                 |                  | 120           | 5299.966                 | 5250 to 5350 | Pass    |
|              |         |                 |                  | 138           | 5299.966                 | 5250 to 5350 | Pass    |
|              |         |                 | -30              | 120           | 5299.966                 | 5250 to 5350 | Pass    |
|              |         |                 | -20              | 120           | 5299.966                 | 5250 to 5350 | Pass    |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | -10 | 120 | 5299.966 | 5250 to 5350 | Pass |
|  |  |      | 0   | 120 | 5299.966 | 5250 to 5350 | Pass |
|  |  |      | 10  | 120 | 5299.966 | 5250 to 5350 | Pass |
|  |  |      | 30  | 120 | 5299.966 | 5250 to 5350 | Pass |
|  |  |      | 40  | 120 | 5299.966 | 5250 to 5350 | Pass |
|  |  | 5320 | 50  | 120 | 5299.965 | 5250 to 5350 | Pass |
|  |  |      | 20  | 102 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      |     | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      |     | 138 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | -30 | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | -20 | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | -10 | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | 0   | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | 10  | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | 30  | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | 40  | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  |      | 50  | 120 | 5319.965 | 5250 to 5350 | Pass |
|  |  | 5745 | 20  | 102 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5744.992 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5744.992 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5744.993 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5744.993 | 5725 to 5850 | Pass |
|  |  | 5785 | 20  | 102 | 5784.992 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5784.992 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5784.993 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5784.993 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5784.993 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5784.992 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5784.993 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5784.993 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5784.993 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5784.992 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5784.992 | 5725 to 5850 | Pass |
|  |  | 5825 | 20  | 102 | 5824.993 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5824.993 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5824.993 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5824.992 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5824.992 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5824.992 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5824.993 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5824.992 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5824.992 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5824.993 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5824.993 | 5725 to 5850 | Pass |
|  |  | 5190 | 20  | 102 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5189.993 | 5150 to 5250 | Pass |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | 30  | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5189.993 | 5150 to 5250 | Pass |
|  |  | 5230 | 20  | 102 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5229.993 | 5150 to 5250 | Pass |
|  |  | 5270 | 20  | 102 | 5269.966 | 5250 to 5350 | Pass |
|  |  |      |     | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      |     | 138 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | -30 | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | -20 | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | -10 | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | 0   | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | 10  | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | 30  | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | 40  | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  |      | 50  | 120 | 5269.965 | 5250 to 5350 | Pass |
|  |  | 5310 | 20  | 102 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      |     | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      |     | 138 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | -30 | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | -20 | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | -10 | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | 0   | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | 10  | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | 30  | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | 40  | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  |      | 50  | 120 | 5309.965 | 5250 to 5350 | Pass |
|  |  | 5755 | 20  | 102 | 5754.992 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5754.992 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5754.992 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5754.992 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5754.992 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5754.992 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5754.993 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5754.993 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5754.993 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5754.993 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5754.993 | 5725 to 5850 | Pass |
|  |  | 5795 | 20  | 102 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      |     | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      |     | 138 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | -30 | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | -20 | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | -10 | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 0   | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 10  | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 30  | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 40  | 120 | 5794.992 | 5725 to 5850 | Pass |
|  |  |      | 50  | 120 | 5794.992 | 5725 to 5850 | Pass |

## 14 6. Form731

### 14.1 6.1 Form731

#### 14.1.16.1.1 Test Result

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 5260             | 5320            | 0.0066        | 8.19            |
| 5180             | 5240            | 0.0048        | 6.84            |
| 5745             | 5825            | 0.0064        | 8.08            |
| 5270             | 5310            | 0.0064        | 8.03            |
| 5190             | 5230            | 0.0048        | 6.80            |
| 5755             | 5795            | 0.0053        | 7.22            |



Test Report Number: BTF230725R01104



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**-- END OF REPORT --**