

**Appendix A:Maximum Transmitter Power**

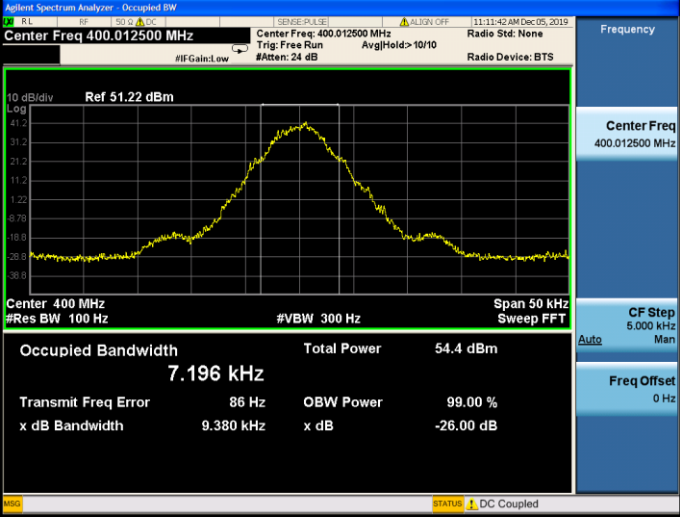
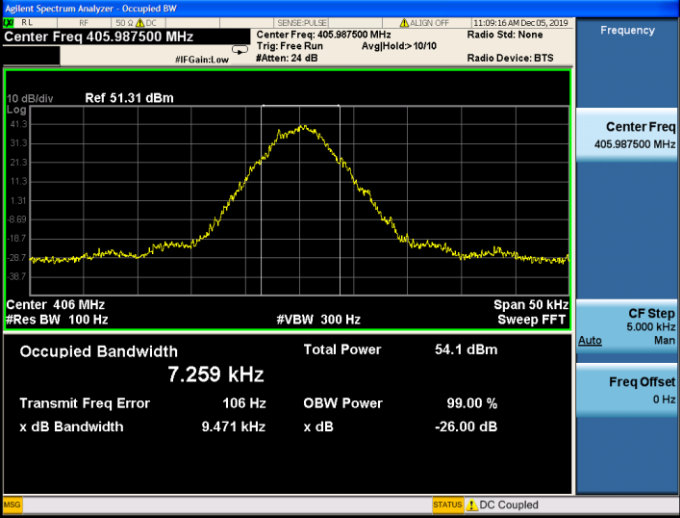
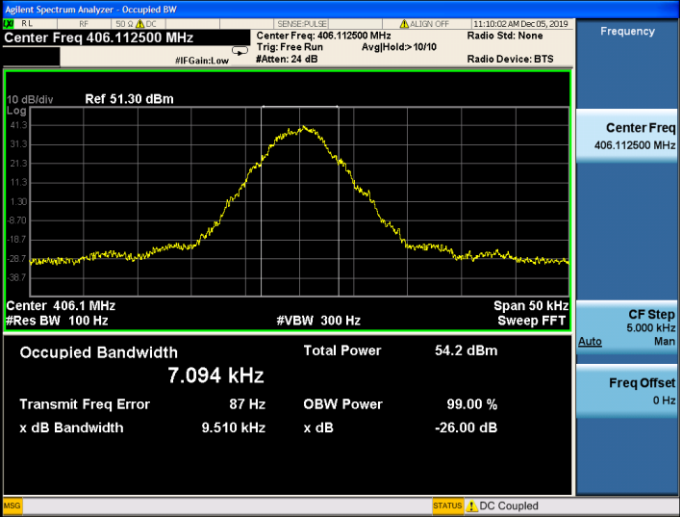
| Operation Mode | Modulation Type | Test Channel     | Measured Power(dBm) | Measured Power(W) | Rated Power(W) | Percentage (%) | Limit (%) | Result |
|----------------|-----------------|------------------|---------------------|-------------------|----------------|----------------|-----------|--------|
| TX-DNH         | 4FSK            | CH <sub>L</sub>  | 47.6                | 57.54             | 50.00          | 15.1           | ±20       | PASS   |
| TX-DNH         | 4FSK            | CH <sub>M1</sub> | 47.7                | 58.88             | 50.00          | 17.8           | ±20       | PASS   |
| TX-DNH         | 4FSK            | CH <sub>M2</sub> | 47.7                | 58.88             | 50.00          | 17.8           | ±20       | PASS   |
| TX-DNH         | 4FSK            | CH <sub>M3</sub> | 47.5                | 56.23             | 50.00          | 12.5           | ±20       | PASS   |
| TX-DNH         | 4FSK            | CH <sub>H</sub>  | 47.5                | 56.23             | 50.00          | 12.5           | ±20       | PASS   |
| TX-DNM         | 4FSK            | CH <sub>L</sub>  | 44.3                | 26.92             | 25.00          | 7.7            | ±20       | PASS   |
| TX-DNM         | 4FSK            | CH <sub>M1</sub> | 44.5                | 28.18             | 25.00          | 12.7           | ±20       | PASS   |
| TX-DNM         | 4FSK            | CH <sub>M2</sub> | 44.5                | 28.18             | 25.00          | 12.7           | ±20       | PASS   |
| TX-DNM         | 4FSK            | CH <sub>M3</sub> | 44.2                | 26.30             | 25.00          | 5.2            | ±20       | PASS   |
| TX-DNM         | 4FSK            | CH <sub>H</sub>  | 44.5                | 28.18             | 25.00          | 12.7           | ±20       | PASS   |
| TX-DNL         | 4FSK            | CH <sub>L</sub>  | 37.5                | 5.62              | 5.00           | 12.5           | ±20       | PASS   |
| TX-DNL         | 4FSK            | CH <sub>M1</sub> | 37.7                | 5.89              | 5.00           | 17.8           | ±20       | PASS   |
| TX-DNL         | 4FSK            | CH <sub>M2</sub> | 37.7                | 5.89              | 5.00           | 17.8           | ±20       | PASS   |
| TX-DNL         | 4FSK            | CH <sub>M3</sub> | 37.1                | 5.13              | 5.00           | 2.6            | ±20       | PASS   |
| TX-DNL         | 4FSK            | CH <sub>H</sub>  | 37.2                | 5.25              | 5.00           | 5.0            | ±20       | PASS   |
| TX-ANH         | FM              | CH <sub>L</sub>  | 46.9                | 48.75             | 50.00          | -2.5           | ±20       | PASS   |
| TX-ANH         | FM              | CH <sub>M1</sub> | 46.9                | 49.43             | 50.00          | -1.1           | ±20       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 46.9                | 49.20             | 50.00          | -1.6           | ±20       | PASS   |
| TX-ANH         | FM              | CH <sub>M3</sub> | 46.8                | 48.31             | 50.00          | -3.4           | ±20       | PASS   |
| TX-ANH         | FM              | CH <sub>H</sub>  | 46.8                | 47.86             | 50.00          | -4.3           | ±20       | PASS   |
| TX-ANM         | FM              | CH <sub>L</sub>  | 43.7                | 23.50             | 25.00          | -6.0           | ±20       | PASS   |
| TX-ANM         | FM              | CH <sub>M1</sub> | 43.8                | 24.15             | 25.00          | -3.4           | ±20       | PASS   |
| TX-ANM         | FM              | CH <sub>M2</sub> | 43.8                | 24.10             | 25.00          | -3.6           | ±20       | PASS   |
| TX-ANM         | FM              | CH <sub>M3</sub> | 43.7                | 23.17             | 25.00          | -7.3           | ±20       | PASS   |
| TX-ANM         | FM              | CH <sub>H</sub>  | 43.6                | 23.01             | 25.00          | -7.9           | ±20       | PASS   |
| TX-ANL         | FM              | CH <sub>L</sub>  | 37.0                | 5.04              | 5.00           | 0.7            | ±20       | PASS   |
| TX-ANL         | FM              | CH <sub>M1</sub> | 37.1                | 5.13              | 5.00           | 2.6            | ±20       | PASS   |
| TX-ANL         | FM              | CH <sub>M2</sub> | 37.0                | 5.01              | 5.00           | 0.2            | ±20       | PASS   |
| TX-ANL         | FM              | CH <sub>M3</sub> | 36.8                | 4.79              | 5.00           | -4.3           | ±20       | PASS   |
| TX-ANL         | FM              | CH <sub>H</sub>  | 36.7                | 4.68              | 5.00           | -6.5           | ±20       | PASS   |

**Appendix B:Occupied Bandwidth**

| Operation Mode | Modulation Type | Test Channel     | Occupied Bandwidth |           | 99% Limit(kHz) | Result |
|----------------|-----------------|------------------|--------------------|-----------|----------------|--------|
|                |                 |                  | 99%(kHz)           | 26dB(kHz) |                |        |
| TX-DNH         | 4FSK            | CH <sub>L</sub>  | 7.196              | 9.380     | ≤11.25         | PASS   |
| TX-DNH         | 4FSK            | CH <sub>M1</sub> | 7.256              | 9.471     | ≤11.25         | PASS   |
| TX-DNH         | 4FSK            | CH <sub>M2</sub> | 7.094              | 9.510     | ≤11.25         | PASS   |
| TX-DNH         | 4FSK            | CH <sub>M3</sub> | 6.959              | 9.341     | ≤11.25         | PASS   |
| TX-DNH         | 4FSK            | CH <sub>H</sub>  | 6.836              | 9.328     | ≤11.25         | PASS   |
| TX-DNL         | 4FSK            | CH <sub>L</sub>  | 7.242              | 9.358     | ≤11.25         | PASS   |
| TX-DNL         | 4FSK            | CH <sub>M1</sub> | 7.131              | 9.388     | ≤11.25         | PASS   |
| TX-DNL         | 4FSK            |                  | 7.300              | 9.688     | ≤11.25         | PASS   |
| TX-DNL         | 4FSK            | CH <sub>M3</sub> | 7.169              | 9.468     | ≤11.25         | PASS   |
| TX-DNL         | 4FSK            | CH <sub>H</sub>  | 6.988              | 9.301     | ≤11.25         | PASS   |
| TX-ANH         | FM              | CH <sub>L</sub>  | 5.165              | 7.649     | ≤11.25         | PASS   |
| TX-ANH         | FM              | CH <sub>M1</sub> | 5.158              | 7.664     | ≤11.25         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 5.155              | 7.663     | ≤11.25         | PASS   |
| TX-ANH         | FM              | CH <sub>M3</sub> | 5.162              | 7.640     | ≤11.25         | PASS   |
| TX-ANH         | FM              | CH <sub>H</sub>  | 5.176              | 7.665     | ≤11.25         | PASS   |
| TX-ANL         | FM              | CH <sub>L</sub>  | 5.166              | 7.646     | ≤11.25         | PASS   |
| TX-ANL         | FM              | CH <sub>M1</sub> | 5.156              | 7.664     | ≤11.25         | PASS   |
| TX-ANL         | FM              | CH <sub>M2</sub> | 5.159              | 7.662     | ≤11.25         | PASS   |
| TX-ANL         | FM              | CH <sub>M3</sub> | 5.167              | 7.637     | ≤11.25         | PASS   |
| TX-ANL         | FM              | CH <sub>H</sub>  | 5.177              | 7.662     | ≤11.25         | PASS   |

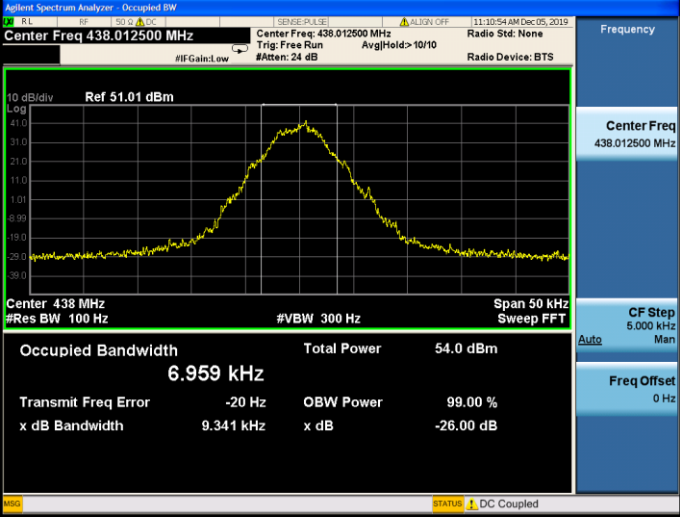
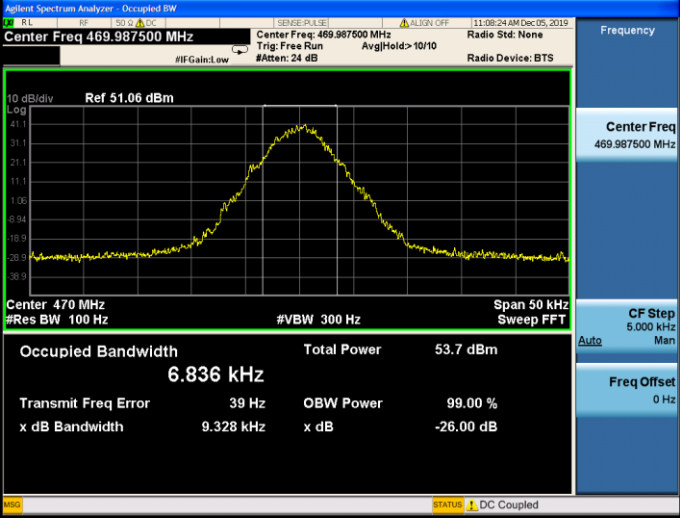
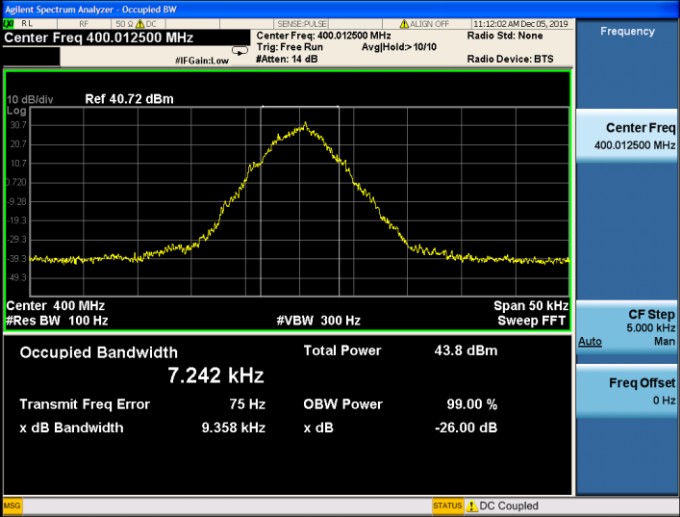


## Appendix B:Occupied Bandwidth

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>L</sub>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz</p> <p>Center Freq: 400.012500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 51.22 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 400 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.196 kHz</p> <p>Total Power 54.4 dBm</p> <p>Transmit Freq Error 86 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.380 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>     |
| TX-DNH         | 4FSK            | CH <sub>M1</sub> |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz</p> <p>Center Freq: 405.987500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 51.31 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 406 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.259 kHz</p> <p>Total Power 54.1 dBm</p> <p>Transmit Freq Error 106 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.471 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>   |
| TX-DNH         | 4FSK            | CH <sub>M2</sub> |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 51.30 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 406.1 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.094 kHz</p> <p>Total Power 54.2 dBm</p> <p>Transmit Freq Error 87 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.510 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p> |



## Appendix B:Occupied Bandwidth

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-----------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>M3</sub> |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Center Freq: 438.012500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 51.01 dBm</p> <p>Center 438 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 6.959 kHz</p> <p>Total Power 54.0 dBm</p> <p>Transmit Freq Error -20 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.341 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>  |
| TX-DNH         | 4FSK            | CH <sub>H</sub>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz</p> <p>Center Freq: 469.987500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 51.06 dBm</p> <p>Center 470 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 6.836 kHz</p> <p>Total Power 53.7 dBm</p> <p>Transmit Freq Error 39 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.328 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>  |
| TX-DNL         | 4FSK            | CH <sub>L</sub>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz</p> <p>Center Freq: 400.012500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 40.72 dBm</p> <p>Center 400 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.242 kHz</p> <p>Total Power 43.8 dBm</p> <p>Transmit Freq Error 75 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.358 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p> |

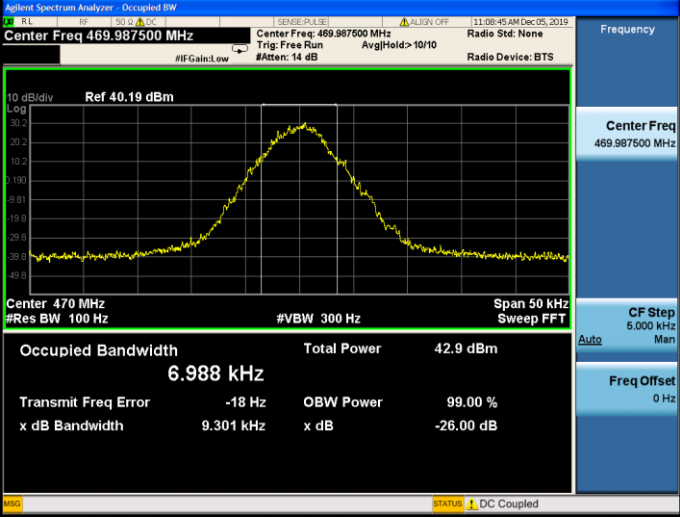
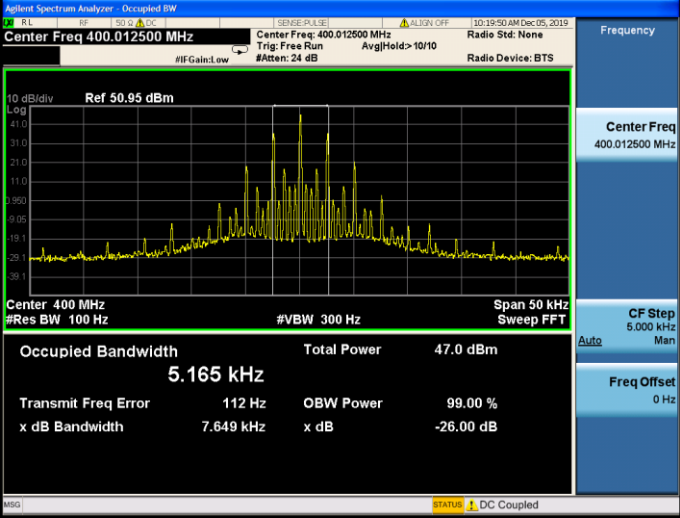
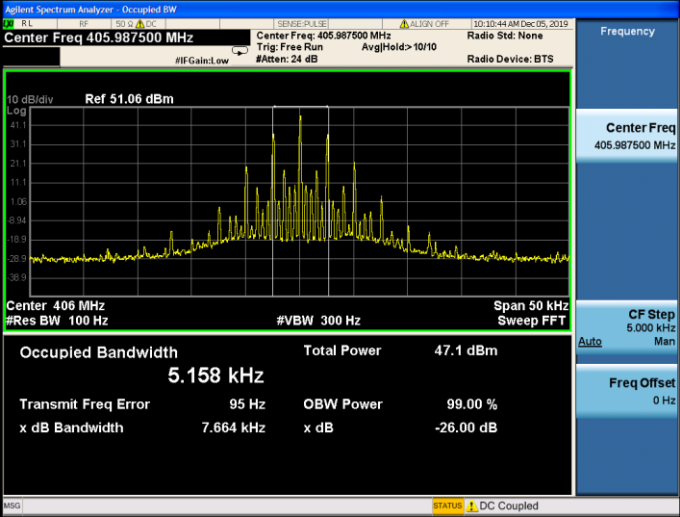


## Appendix B:Occupied Bandwidth

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-DNL         | 4FSK            | CH <sub>M1</sub> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz</p> <p>Center Freq: 405.987500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 40.98 dBm</p> <p>Center 406 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.131 kHz</p> <p>Total Power 43.8 dBm</p> <p>Transmit Freq Error 126 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.388 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>  |
| TX-DNL         | 4FSK            | CH <sub>M2</sub> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 40.95 dBm</p> <p>Center 406.1 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.300 kHz</p> <p>Total Power 43.9 dBm</p> <p>Transmit Freq Error 83 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.688 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p> |
| TX-DNL         | 4FSK            | CH <sub>M3</sub> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Center Freq: 438.012500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 40.35 dBm</p> <p>Center 438 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.169 kHz</p> <p>Total Power 43.2 dBm</p> <p>Transmit Freq Error 56 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.469 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>   |



## Appendix B:Occupied Bandwidth

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-DNL         | 4FSK            | CH <sub>H</sub>  |  <p>Agilent Spectrum Analyzer - Occupied BW<br/>Center Freq 469.987500 MHz<br/>Trig: Free Run<br/>#IF Gain: Low<br/>#Atten: 14 dB<br/>Avg/Hold: &gt; 10/10<br/>Radio Std: None<br/>Radio Device: BTS<br/>Frequency<br/>Center Freq 469.987500 MHz<br/>CF Step 5.000 kHz<br/>Man<br/>Freq Offset 0 Hz<br/>Auto<br/>Span 50 kHz<br/>Sweep FFT<br/>#Res BW 100 Hz<br/>#VBW 300 Hz<br/>Occupied Bandwidth 6.988 kHz<br/>Total Power 42.9 dBm<br/>Transmit Freq Error -18 Hz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 9.301 kHz<br/>x dB -26.00 dB<br/>STATUS DC Coupled</p>  |
| TX-ANH         | FM              | CH <sub>L</sub>  |  <p>Agilent Spectrum Analyzer - Occupied BW<br/>Center Freq 400.012500 MHz<br/>Trig: Free Run<br/>#IF Gain: Low<br/>#Atten: 24 dB<br/>Avg/Hold: &gt; 10/10<br/>Radio Std: None<br/>Radio Device: BTS<br/>Frequency<br/>Center Freq 400.012500 MHz<br/>CF Step 5.000 kHz<br/>Man<br/>Freq Offset 0 Hz<br/>Auto<br/>Span 50 kHz<br/>Sweep FFT<br/>#Res BW 100 Hz<br/>#VBW 300 Hz<br/>Occupied Bandwidth 5.165 kHz<br/>Total Power 47.0 dBm<br/>Transmit Freq Error 112 Hz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 7.649 kHz<br/>x dB -26.00 dB<br/>STATUS DC Coupled</p> |
| TX-ANH         | FM              | CH <sub>M1</sub> |  <p>Agilent Spectrum Analyzer - Occupied BW<br/>Center Freq 405.987500 MHz<br/>Trig: Free Run<br/>#IF Gain: Low<br/>#Atten: 24 dB<br/>Avg/Hold: &gt; 10/10<br/>Radio Std: None<br/>Radio Device: BTS<br/>Frequency<br/>Center Freq 405.987500 MHz<br/>CF Step 5.000 kHz<br/>Man<br/>Freq Offset 0 Hz<br/>Auto<br/>Span 50 kHz<br/>Sweep FFT<br/>#Res BW 100 Hz<br/>#VBW 300 Hz<br/>Occupied Bandwidth 5.158 kHz<br/>Total Power 47.1 dBm<br/>Transmit Freq Error 95 Hz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 7.664 kHz<br/>x dB -26.00 dB<br/>STATUS DC Coupled</p> |



## Appendix B:Occupied Bandwidth

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-ANH         | FM              | CH <sub>M2</sub> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 51.03 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 406.1 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 5.155 kHz</p> <p>Total Power 47.0 dBm</p> <p>Transmit Freq Error 100 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.663 kHz</p> <p>x dB -26.00 dB</p> <p>MSG STATUS DC Coupled</p> |
| TX-ANH         | FM              | CH <sub>M3</sub> | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Center Freq: 438.012500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 50.66 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 438 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 5.162 kHz</p> <p>Total Power 46.7 dBm</p> <p>Transmit Freq Error 110 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.640 kHz</p> <p>x dB -26.00 dB</p> <p>MSG STATUS DC Coupled</p>   |
| TX-ANH         | FM              | CH <sub>H</sub>  | <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz</p> <p>Center Freq: 469.987500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 50.65 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 470 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 5.176 kHz</p> <p>Total Power 46.6 dBm</p> <p>Transmit Freq Error 117 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.665 kHz</p> <p>x dB -26.00 dB</p> <p>MSG STATUS DC Coupled</p>   |



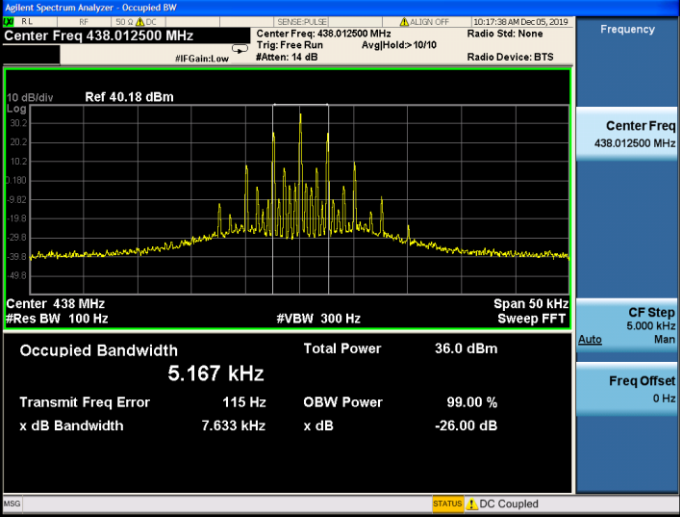
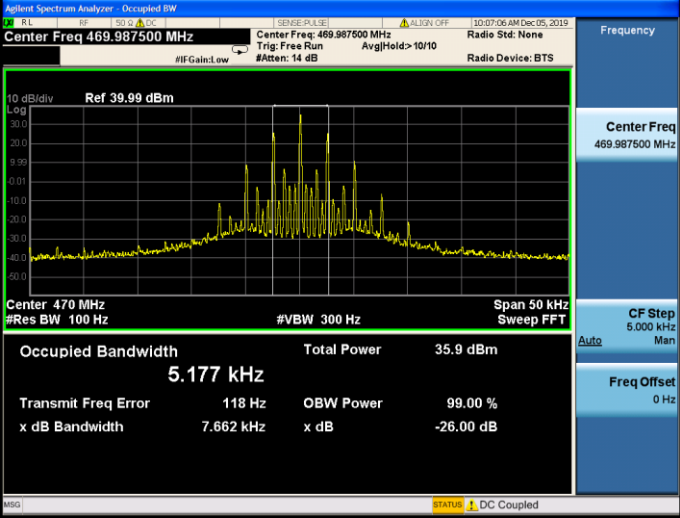
## Appendix B:Occupied Bandwidth

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-ANL         | FM              | CH <sub>L</sub>  | <p>Agilent Spectrum Analyzer - Occupied BW<br/>Center Freq 400.012500 MHz<br/>Center Freq: 400.012500 MHz<br/>Trig: Free Run<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS<br/>Ref 41.03 dBm<br/>10 dB/div<br/>Log<br/>Center 400 MHz<br/>#Res BW 100 Hz<br/>#VBW 300 Hz<br/>Span 50 kHz<br/>Sweep FFT<br/>Occupied Bandwidth 5.166 kHz<br/>Total Power 37.0 dBm<br/>Transmit Freq Error 113 Hz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 7.646 kHz x dB -26.00 dB<br/>MSG STATUS DC Coupled</p>   |
| TX-ANL         | FM              | CH <sub>M1</sub> | <p>Agilent Spectrum Analyzer - Occupied BW<br/>Center Freq 405.987500 MHz<br/>Center Freq: 405.987500 MHz<br/>Trig: Free Run<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS<br/>Ref 41.07 dBm<br/>10 dB/div<br/>Log<br/>Center 406 MHz<br/>#Res BW 100 Hz<br/>#VBW 300 Hz<br/>Span 50 kHz<br/>Sweep FFT<br/>Occupied Bandwidth 5.156 kHz<br/>Total Power 36.9 dBm<br/>Transmit Freq Error 97 Hz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 7.664 kHz x dB -26.00 dB<br/>MSG STATUS DC Coupled</p>    |
| TX-ANL         | FM              | CH <sub>M2</sub> | <p>Agilent Spectrum Analyzer - Occupied BW<br/>Center Freq 406.112500 MHz<br/>Center Freq: 406.112500 MHz<br/>Trig: Free Run<br/>Avg/Hold: &gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS<br/>Ref 41.02 dBm<br/>10 dB/div<br/>Log<br/>Center 406.1 MHz<br/>#Res BW 100 Hz<br/>#VBW 300 Hz<br/>Span 50 kHz<br/>Sweep FFT<br/>Occupied Bandwidth 5.159 kHz<br/>Total Power 36.9 dBm<br/>Transmit Freq Error 105 Hz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 7.662 kHz x dB -26.00 dB<br/>MSG STATUS DC Coupled</p> |



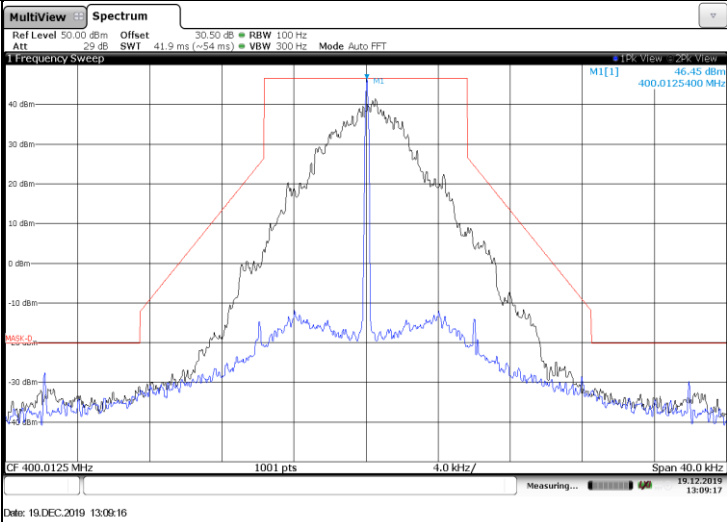
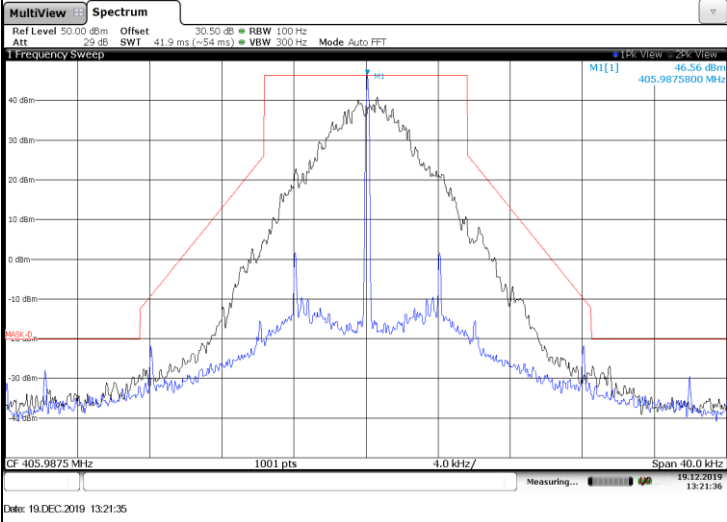
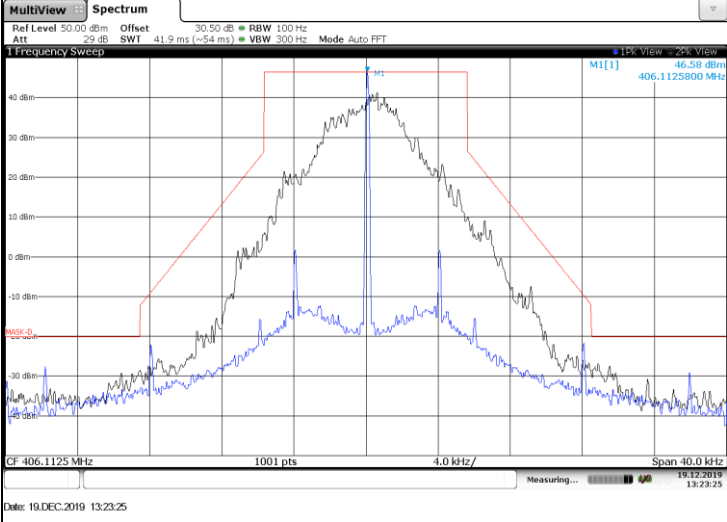


## Appendix B:Occupied Bandwidth

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-ANL         | FM              | CH <sub>M3</sub> |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Center Freq: 438.012500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 40.18 dBm</p> <p>Center 438 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 5.167 kHz</p> <p>Total Power 36.0 dBm</p> <p>Transmit Freq Error 115 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.633 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 438.012500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p> <p>Auto</p> <p>STATUS DC Coupled</p>  |
| TX-ANL         | FM              | CH <sub>H</sub>  |  <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz</p> <p>Center Freq: 469.987500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 39.99 dBm</p> <p>Center 470 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 5.177 kHz</p> <p>Total Power 35.9 dBm</p> <p>Transmit Freq Error 118 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.662 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 469.987500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p> <p>Auto</p> <p>STATUS DC Coupled</p> |



## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                     |
|----------------|-----------------|------------------|--------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>L</sub>  |    |
| TX-DNH         | 4FSK            | CH <sub>M1</sub> |   |
| TX-DNH         | 4FSK            | CH <sub>M2</sub> |  |

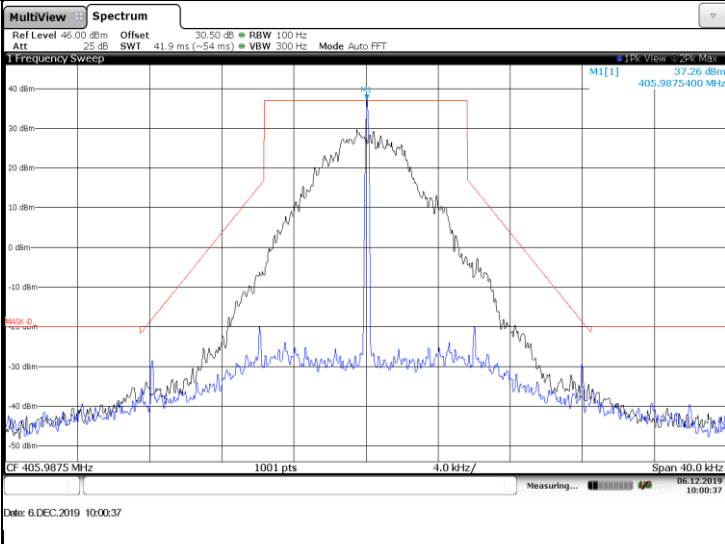
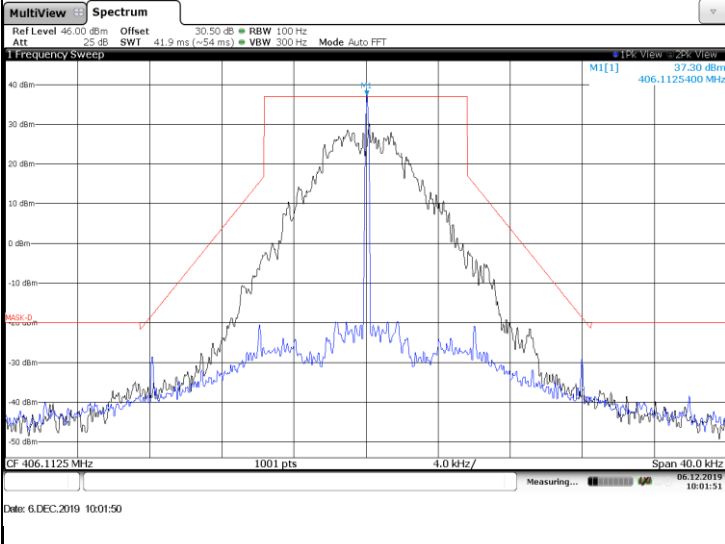
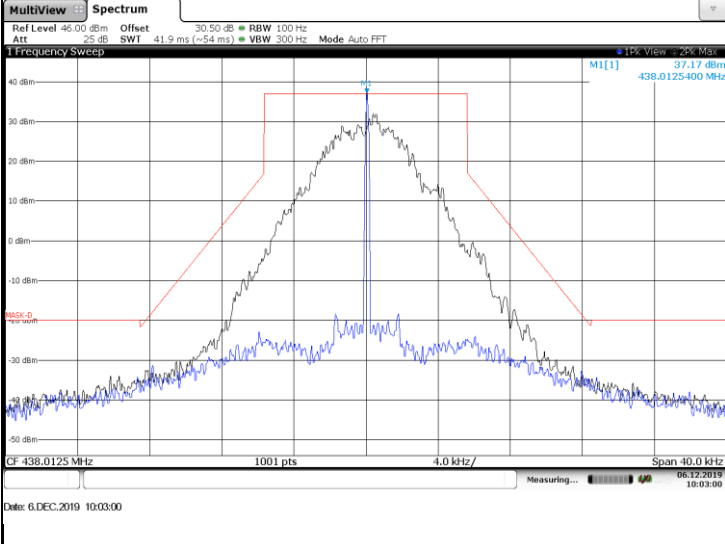


## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                       |
|----------------|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>M3</sub> | <p>MultiView Spectrum<br/>Ref Level 50.00 dBm Offset 30.50 dB RBW 100 Hz<br/>Att 29 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT<br/>1 Frequency Sweep<br/>M1[1] 46.21 dBm 438.0125800 MHz<br/>CF 438.0125 MHz 1001 pts 4.0 kHz / Span 40.0 kHz<br/>Date: 19.DEC.2019 13:20:16</p> |
| TX-DNH         | 4FSK            | CH <sub>H</sub>  | <p>MultiView Spectrum<br/>Ref Level 50.00 dBm Offset 30.50 dB RBW 100 Hz<br/>Att 29 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT<br/>1 Frequency Sweep<br/>M1[1] 45.85 dBm 469.9875800 MHz<br/>CF 469.9875 MHz 1001 pts 4.0 kHz / Span 40.0 kHz<br/>Date: 19.DEC.2019 13:25:28</p> |
| TX-DNL         | 4FSK            | CH <sub>L</sub>  | <p>MultiView Spectrum<br/>Ref Level 40.00 dBm Offset 30.50 dB RBW 100 Hz<br/>Att 25 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT<br/>1 Frequency Sweep<br/>M1[1] 37.03 dBm 400.0125800 MHz<br/>CF 400.0125 MHz 1001 pts 4.0 kHz / Span 40.0 kHz<br/>Date: 6.DEC.2019 09:59:01</p>  |



## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|-----------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-DNL         | 4FSK            | CH <sub>M1</sub> |  <p>MultiView Spectrum<br/>           Ref Level 46.00 dBm Offset 30.50 dB RBW 100 Hz<br/>           Att 25 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT<br/>           1 Frequency Sweep<br/>           40 dBm<br/>           30 dBm<br/>           20 dBm<br/>           10 dBm<br/>           0 dBm<br/>           -10 dBm<br/>           -20 dBm<br/>           -30 dBm<br/>           -40 dBm<br/>           -50 dBm<br/>           CF 405.9875 MHz 1001 pts 4.0 kHz / Span 40.0 kHz<br/>           Date: 6.DEC.2019 10:00:37</p>   |
| TX-DNL         | 4FSK            | CH <sub>M2</sub> |  <p>MultiView Spectrum<br/>           Ref Level 46.00 dBm Offset 30.50 dB RBW 100 Hz<br/>           Att 25 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT<br/>           1 Frequency Sweep<br/>           40 dBm<br/>           30 dBm<br/>           20 dBm<br/>           10 dBm<br/>           0 dBm<br/>           -10 dBm<br/>           -20 dBm<br/>           -30 dBm<br/>           -40 dBm<br/>           -50 dBm<br/>           CF 406.1125 MHz 1001 pts 4.0 kHz / Span 40.0 kHz<br/>           Date: 6.DEC.2019 10:01:50</p>  |
| TX-DNL         | 4FSK            | CH <sub>M3</sub> |  <p>MultiView Spectrum<br/>           Ref Level 46.00 dBm Offset 30.50 dB RBW 100 Hz<br/>           Att 25 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT<br/>           1 Frequency Sweep<br/>           40 dBm<br/>           30 dBm<br/>           20 dBm<br/>           10 dBm<br/>           0 dBm<br/>           -10 dBm<br/>           -20 dBm<br/>           -30 dBm<br/>           -40 dBm<br/>           -50 dBm<br/>           CF 438.0125 MHz 1001 pts 4.0 kHz / Span 40.0 kHz<br/>           Date: 6.DEC.2019 10:03:00</p> |

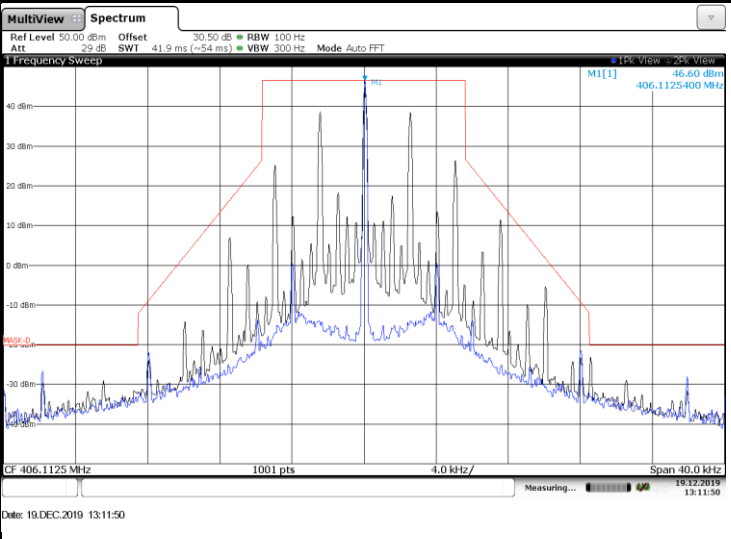
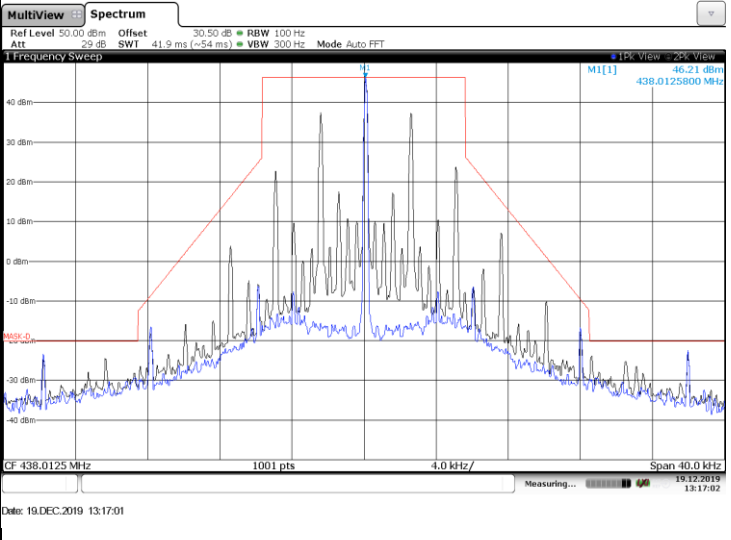
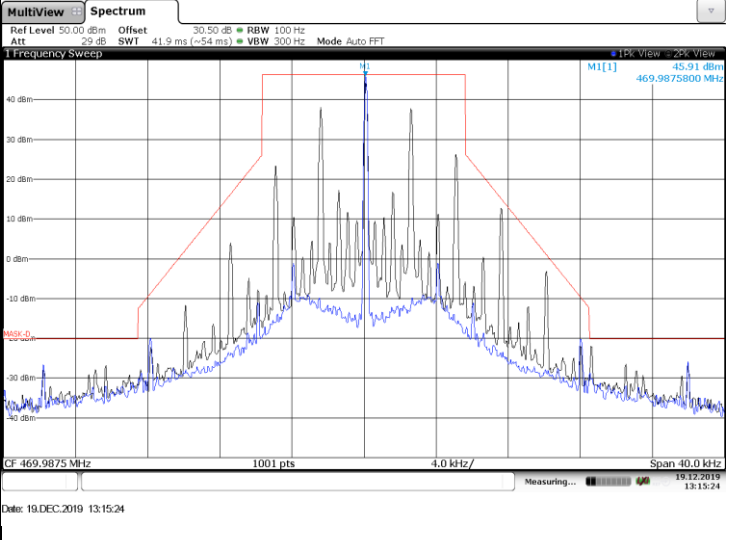


## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT |
|----------------|-----------------|------------------|------------------|
| TX-DNL         | 4FSK            | CH <sub>H</sub>  |                  |
| TX-ANH         | FM              | CH <sub>L</sub>  |                  |
| TX-ANH         | FM              | CH <sub>M1</sub> |                  |

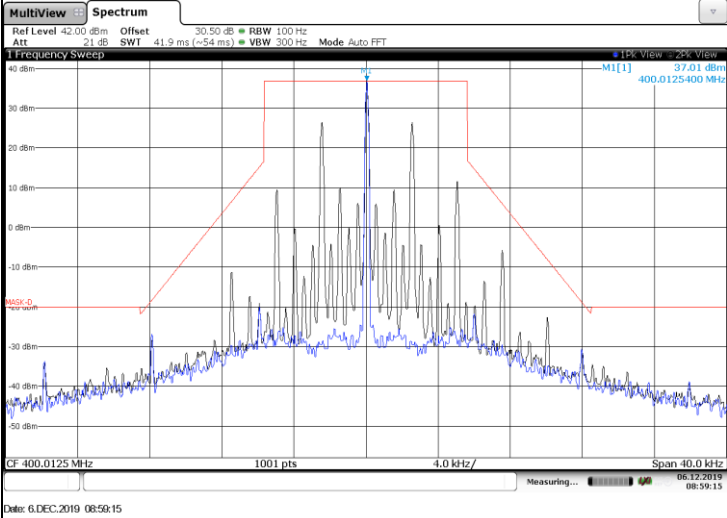
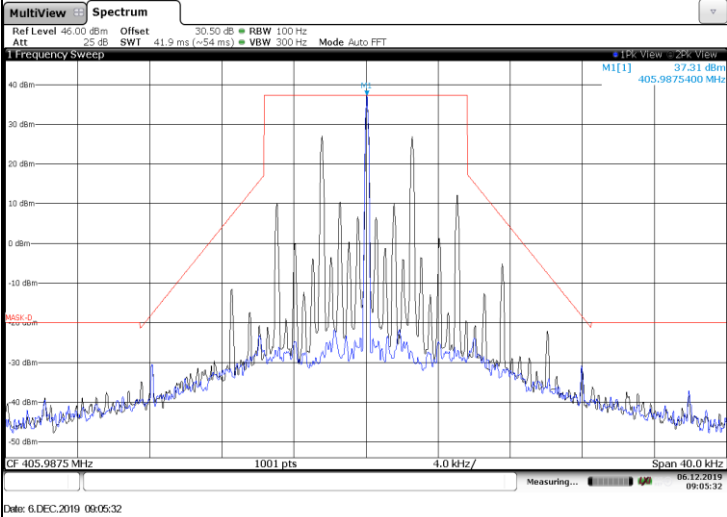
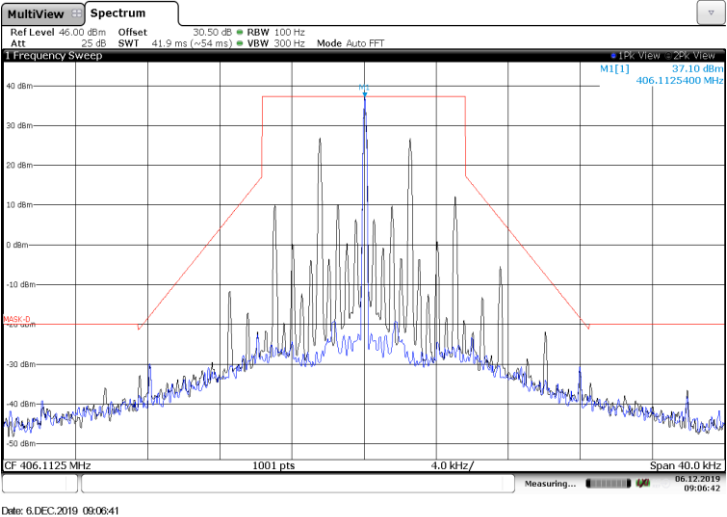


## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                     |
|----------------|-----------------|------------------|--------------------------------------------------------------------------------------|
| TX-ANH         | FM              | CH <sub>M2</sub> |    |
| TX-ANH         | FM              | CH <sub>M3</sub> |   |
| TX-ANH         | FM              | CH <sub>H</sub>  |  |

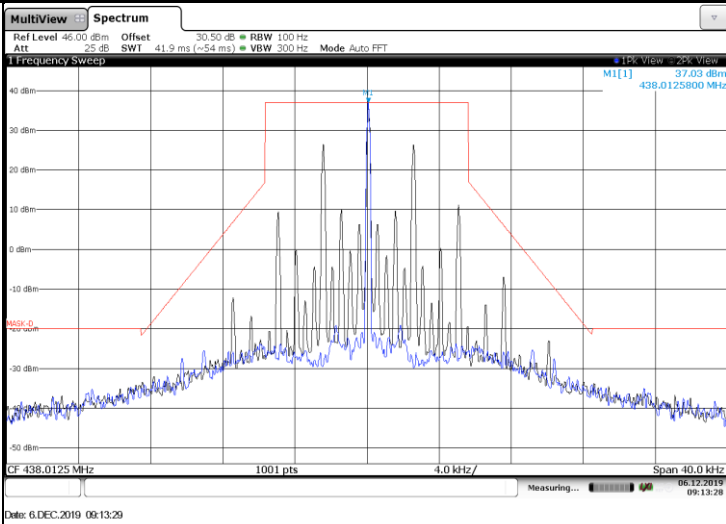
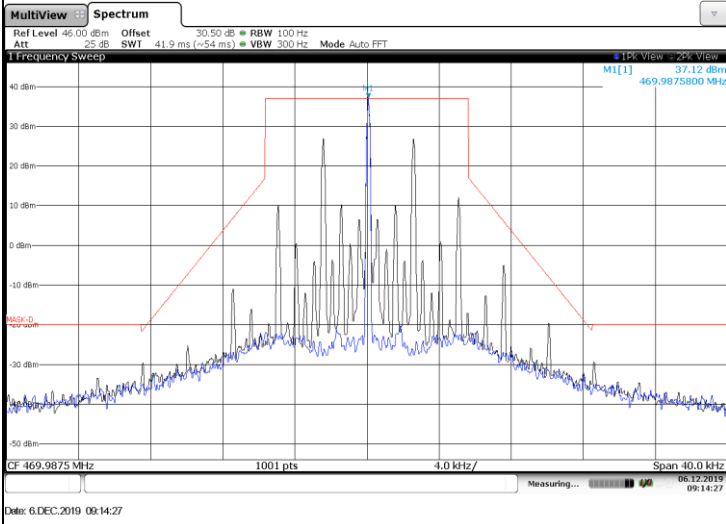


## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                     |
|----------------|-----------------|------------------|--------------------------------------------------------------------------------------|
| TX-ANL         | FM              | CH <sub>L</sub>  |    |
| TX-ANL         | FM              | CH <sub>M1</sub> |   |
| TX-ANL         | FM              | CH <sub>M2</sub> |  |



## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                    |
|----------------|-----------------|------------------|-------------------------------------------------------------------------------------|
| TX-ANL         | FM              | CH <sub>M3</sub> |   |
| TX-ANL         | FM              | CH <sub>H</sub>  |  |



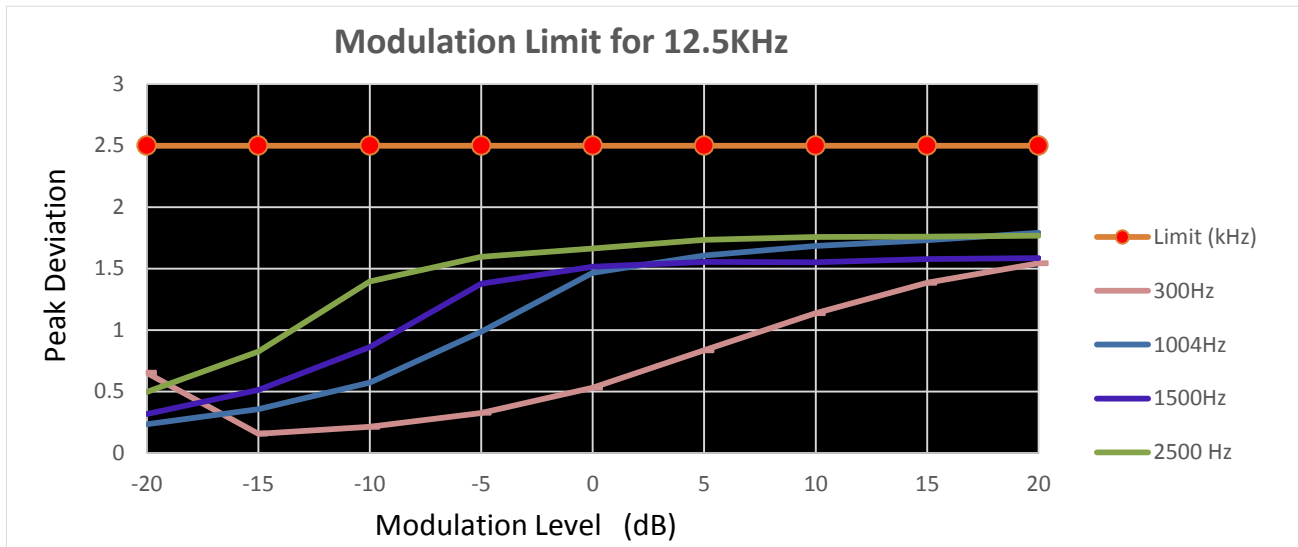
**Appendix D:Modulation Limit**

| Operation Mode | Modulation Type | Test Channel     | Modulation Level (dB) | Peak frequency deviation (kHz) |        |        |         | Limit (kHz) | Result |
|----------------|-----------------|------------------|-----------------------|--------------------------------|--------|--------|---------|-------------|--------|
|                |                 |                  |                       | 300Hz                          | 1004Hz | 1500Hz | 2500 Hz |             |        |
| TX-ANH         | FM              | CH <sub>M2</sub> | -20                   | 0.652                          | 0.234  | 0.319  | 0.497   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | -15                   | 0.157                          | 0.357  | 0.513  | 0.825   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | -10                   | 0.214                          | 0.573  | 0.863  | 1.396   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | -5                    | 0.327                          | 0.986  | 1.376  | 1.597   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 0                     | 0.531                          | 1.467  | 1.514  | 1.664   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 5                     | 0.835                          | 1.606  | 1.553  | 1.734   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 10                    | 1.137                          | 1.685  | 1.551  | 1.757   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 15                    | 1.385                          | 1.732  | 1.577  | 1.759   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 20                    | 1.543                          | 1.791  | 1.585  | 1.767   | 2.5         | PASS   |



## Appendix D:Modulation Limit

### TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

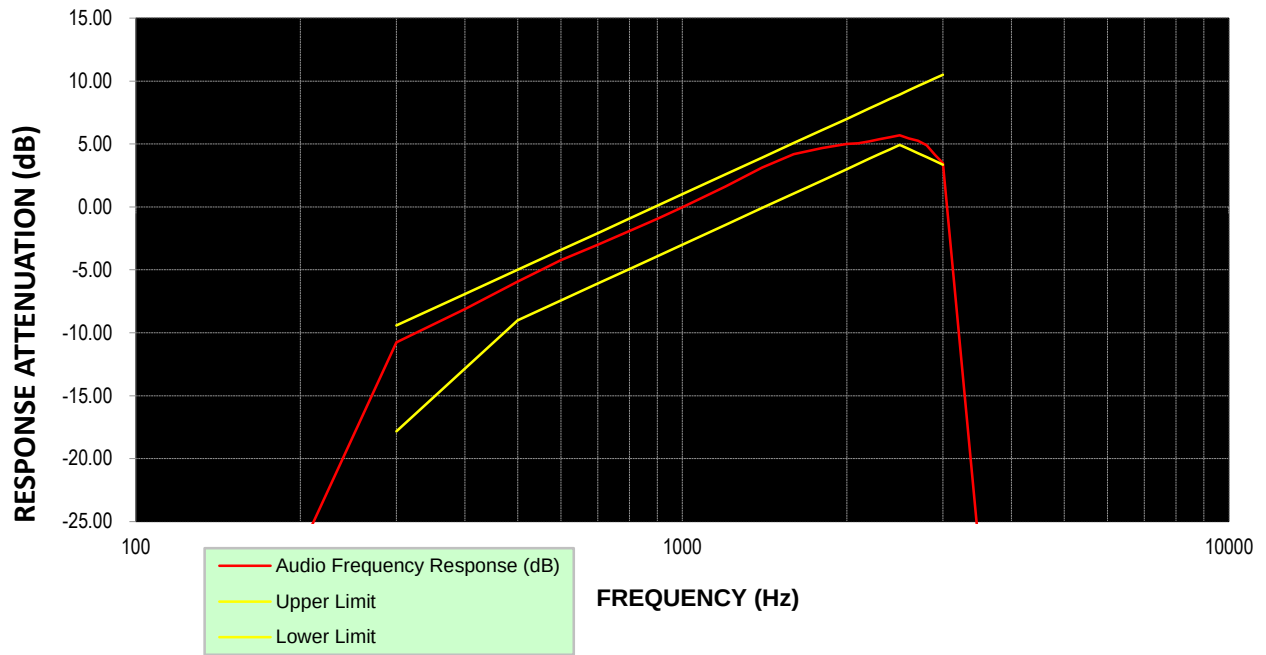
| Operation Mode | Modulation Type | Test Channel     | Frequency (Hz) | Audio Frequency Response (dB) | Lower Limit | Upper Limit | Result |
|----------------|-----------------|------------------|----------------|-------------------------------|-------------|-------------|--------|
| TX-ANH         | FM              | CH <sub>M2</sub> | 100            | -27.34                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 200            | -27.30                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 300            | -10.76                        | -17.84      | -9.42       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 400            | -8.13                         | -12.86      | -6.93       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 500            | -5.93                         | -9.00       | -5.00       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 600            | -4.24                         | -7.42       | -3.42       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 700            | -3.01                         | -6.09       | -2.09       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 800            | -1.93                         | -4.93       | -0.93       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 900            | -0.94                         | -3.91       | 0.09        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1000           | -0.03                         | -3.00       | 1.00        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1200           | 1.62                          | -1.42       | 2.58        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1400           | 3.12                          | -0.09       | 3.91        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1600           | 4.20                          | 1.07        | 5.07        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1800           | 4.68                          | 2.09        | 6.09        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2000           | 5.00                          | 3.00        | 7.00        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2100           | 5.05                          | 3.42        | 7.42        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2200           | 5.21                          | 3.83        | 7.83        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2300           | 5.37                          | 4.21        | 8.21        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2400           | 5.54                          | 4.58        | 8.58        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2500           | 5.70                          | 4.93        | 8.93        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2600           | 5.43                          | 4.59        | 9.27        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2700           | 5.25                          | 4.27        | 9.60        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2800           | 4.89                          | 3.95        | 9.91        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2900           | 4.15                          | 3.65        | 10.22       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 3000           | 3.47                          | 3.35        | 10.51       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 3500           | -27.73                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 4000           | -27.44                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 4500           | -27.50                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 5000           | -27.53                        |             |             | PASS   |



## Appendix E:Aduio Frequency Response

### TEST PLOT RESULT

Aduio Freqecny Response For 12.5kHz



**Appendix F:Frequency Stability Test & Temperature**

| Operation Mode | Modulation Type | Test Conditions |             | Frequency error (ppm) |                  |                  |                  |                 | Limit (ppm) | Result |
|----------------|-----------------|-----------------|-------------|-----------------------|------------------|------------------|------------------|-----------------|-------------|--------|
|                |                 | Voltage         | Temperature | CH <sub>L</sub>       | CH <sub>M1</sub> | CH <sub>M2</sub> | CH <sub>M3</sub> | CH <sub>H</sub> |             |        |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | -30         | -0.126                | -0.120           | -0.124           | -0.134           | -0.167          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | -20         | -0.120                | -0.120           | -0.120           | -0.141           | -0.172          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | -10         | -0.125                | -0.126           | -0.121           | -0.139           | -0.170          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 0           | -0.127                | -0.120           | -0.120           | -0.137           | -0.171          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 10          | -0.125                | -0.122           | -0.120           | -0.139           | -0.173          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 20          | -0.119                | -0.118           | -0.119           | -0.131           | -0.163          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 30          | -0.120                | -0.124           | -0.127           | -0.139           | -0.170          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 40          | -0.121                | -0.119           | -0.130           | -0.143           | -0.170          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 55          | -0.130                | -0.119           | -0.124           | -0.141           | -0.178          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | -30         | -0.131                | -0.133           | -0.140           | -0.065           | -0.187          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | -20         | -0.122                | -0.130           | -0.130           | -0.065           | -0.176          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | -10         | -0.133                | -0.130           | -0.141           | -0.065           | -0.175          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 0           | -0.130                | -0.129           | -0.138           | -0.071           | -0.186          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 10          | -0.126                | -0.133           | -0.135           | -0.069           | -0.185          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 20          | -0.121                | -0.128           | -0.128           | -0.065           | -0.173          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 30          | -0.132                | -0.132           | -0.139           | -0.066           | -0.183          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 40          | -0.122                | -0.132           | -0.137           | -0.066           | -0.178          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 55          | -0.126                | -0.138           | -0.129           | -0.069           | -0.179          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | -30         | 0.221                 | 0.234            | 0.233            | 0.218            | 0.266           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | -20         | 0.220                 | 0.245            | 0.239            | 0.215            | 0.263           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | -10         | 0.211                 | 0.243            | 0.235            | 0.225            | 0.265           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 0           | 0.218                 | 0.246            | 0.231            | 0.208            | 0.250           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 10          | 0.213                 | 0.229            | 0.235            | 0.221            | 0.256           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 20          | 0.204                 | 0.225            | 0.219            | 0.207            | 0.244           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 30          | 0.212                 | 0.235            | 0.231            | 0.219            | 0.256           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 40          | 0.216                 | 0.233            | 0.230            | 0.211            | 0.267           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 55          | 0.206                 | 0.243            | 0.220            | 0.227            | 0.268           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | -30         | 0.203                 | 0.230            | 0.221            | 0.220            | 0.236           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | -20         | 0.212                 | 0.226            | 0.223            | 0.210            | 0.244           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | -10         | 0.217                 | 0.233            | 0.230            | 0.220            | 0.253           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 0           | 0.216                 | 0.242            | 0.227            | 0.219            | 0.244           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 10          | 0.201                 | 0.241            | 0.223            | 0.210            | 0.247           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 20          | 0.201                 | 0.222            | 0.216            | 0.201            | 0.233           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 30          | 0.220                 | 0.226            | 0.227            | 0.215            | 0.248           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 40          | 0.218                 | 0.228            | 0.226            | 0.207            | 0.247           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 55          | 0.205                 | 0.228            | 0.233            | 0.212            | 0.242           | ±5.0        | PASS   |

**Appendix G:Frequency Stability Test & Voltage**

| Operation Mode | Modulation Type | Test Conditions |                | Frequency error (ppm) |                  |                  |                  |                 | Limit (ppm) | Result |
|----------------|-----------------|-----------------|----------------|-----------------------|------------------|------------------|------------------|-----------------|-------------|--------|
|                |                 | Voltage         | Temperature    | CH <sub>L</sub>       | CH <sub>M1</sub> | CH <sub>M2</sub> | CH <sub>M3</sub> | CH <sub>H</sub> |             |        |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | T <sub>N</sub> | -0.119                | -0.118           | -0.119           | -0.131           | -0.163          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>L</sub>  | T <sub>N</sub> | -0.119                | -0.120           | -0.119           | -0.132           | -0.165          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>H</sub>  | T <sub>N</sub> | -0.122                | -0.123           | -0.121           | -0.133           | -0.171          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | T <sub>N</sub> | -0.121                | -0.128           | -0.128           | -0.065           | -0.173          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>L</sub>  | T <sub>N</sub> | -0.121                | -0.129           | -0.129           | -0.066           | -0.175          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>H</sub>  | T <sub>N</sub> | -0.126                | -0.135           | -0.134           | -0.066           | -0.177          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | T <sub>N</sub> | 0.204                 | 0.225            | 0.219            | 0.207            | 0.244           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>L</sub>  | T <sub>N</sub> | 0.208                 | 0.228            | 0.222            | 0.207            | 0.246           | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>H</sub>  | T <sub>N</sub> | 0.205                 | 0.236            | 0.222            | 0.217            | 0.248           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | T <sub>N</sub> | 0.201                 | 0.222            | 0.216            | 0.201            | 0.233           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>L</sub>  | T <sub>N</sub> | 0.204                 | 0.222            | 0.217            | 0.205            | 0.234           | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>H</sub>  | T <sub>N</sub> | 0.202                 | 0.224            | 0.229            | 0.208            | 0.240           | ±5.0        | PASS   |



## Appendix H:Transmitter Frequency Behavior

| Operation Mode           | Modulation Type | Test Channel            | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |  |                         |  |       |       |         |     |               |             |            |            |
|--------------------------|-----------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|-------------------------|--|-------|-------|---------|-----|---------------|-------------|------------|------------|
| TX-DNH                   | 4FSK            | CH <sub>M2</sub>        | <div><div>MultiViewSpectrumAnalog Demod</div><div>Ref Level 49.00 dBm Offset 30.50 dB<br/>Att 20 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz<br/>TRG:IFSK(17MHz) YIG Bypass</div><div>1 FM Time Domain</div><div><div>CF 406.1125 MHz</div><div>1001 pts</div><div>10.0 ms/</div></div><div>4 Result Summary</div><table><tr><td colspan="2">Carrier Power -40.58 dBm</td><td colspan="2">Carrier Offset 43.22 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.488 kHz</td><td>-12.437 kHz</td><td>12.463 kHz</td><td>2.7408 kHz</td></tr></table><div>Analog Demod: Waiting for Trigger...</div><div>Measuring... 06.12.2019 10:10:28</div><div>Date: 6.DEC.2019 10:10:27</div><div>OFF~ON</div></div> | Carrier Power -40.58 dBm |  | Carrier Offset 43.22 Hz |  | +Peak | -Peak | +Peak/2 | RMS | FM 12.488 kHz | -12.437 kHz | 12.463 kHz | 2.7408 kHz |
| Carrier Power -40.58 dBm |                 | Carrier Offset 43.22 Hz |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |  |                         |  |       |       |         |     |               |             |            |            |
| +Peak                    | -Peak           | +Peak/2                 | RMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |  |                         |  |       |       |         |     |               |             |            |            |
| FM 12.488 kHz            | -12.437 kHz     | 12.463 kHz              | 2.7408 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |  |                         |  |       |       |         |     |               |             |            |            |
| TX-DNH                   | 4FSK            | CH <sub>M2</sub>        | <div><div>MultiViewSpectrumAnalog Demod</div><div>Ref Level 49.00 dBm Offset 30.50 dB<br/>Att 20 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz<br/>TRG:IFSK(17MHz) YIG Bypass</div><div>1 FM Time Domain</div><div><div>CF 406.1125 MHz</div><div>1001 pts</div><div>10.0 ms/</div></div><div>4 Result Summary</div><table><tr><td colspan="2">Carrier Power -40.57 dBm</td><td colspan="2">Carrier Offset 43.64 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.93 kHz</td><td>-16.281 kHz</td><td>14.605 kHz</td><td>2.7702 kHz</td></tr></table><div>Analog Demod: Waiting for Trigger...</div><div>Measuring... 06.12.2019 10:10:47</div><div>Date: 6.DEC.2019 10:10:47</div><div>ON-OFF</div></div>  | Carrier Power -40.57 dBm |  | Carrier Offset 43.64 Hz |  | +Peak | -Peak | +Peak/2 | RMS | FM 12.93 kHz  | -16.281 kHz | 14.605 kHz | 2.7702 kHz |
| Carrier Power -40.57 dBm |                 | Carrier Offset 43.64 Hz |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |  |                         |  |       |       |         |     |               |             |            |            |
| +Peak                    | -Peak           | +Peak/2                 | RMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |  |                         |  |       |       |         |     |               |             |            |            |
| FM 12.93 kHz             | -16.281 kHz     | 14.605 kHz              | 2.7702 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |  |                         |  |       |       |         |     |               |             |            |            |
| TX-ANH                   | FM              | CH <sub>M2</sub>        | <div><div>MultiViewSpectrumAnalog Demod</div><div>Ref Level 49.00 dBm Offset 30.50 dB<br/>Att 20 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz<br/>TRG:IFSK(17MHz) YIG Bypass</div><div>1 FM Time Domain</div><div><div>CF 406.1125 MHz</div><div>1001 pts</div><div>10.0 ms/</div></div><div>4 Result Summary</div><table><tr><td colspan="2">Carrier Power -40.54 dBm</td><td colspan="2">Carrier Offset 45.01 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 13.794 kHz</td><td>-12.438 kHz</td><td>13.116 kHz</td><td>2.7452 kHz</td></tr></table><div>Analog Demod: Waiting for Trigger...</div><div>Measuring... 06.12.2019 10:10:19</div><div>Date: 6.DEC.2019 10:10:18</div><div>ON-OFF</div></div> | Carrier Power -40.54 dBm |  | Carrier Offset 45.01 Hz |  | +Peak | -Peak | +Peak/2 | RMS | FM 13.794 kHz | -12.438 kHz | 13.116 kHz | 2.7452 kHz |
| Carrier Power -40.54 dBm |                 | Carrier Offset 45.01 Hz |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |  |                         |  |       |       |         |     |               |             |            |            |
| +Peak                    | -Peak           | +Peak/2                 | RMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |  |                         |  |       |       |         |     |               |             |            |            |
| FM 13.794 kHz            | -12.438 kHz     | 13.116 kHz              | 2.7452 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |  |                         |  |       |       |         |     |               |             |            |            |



## Appendix H:Transmitter Frequency Behavior

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|-----------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-ANH         | FM              | CH <sub>M2</sub> | <div><div><div>MultiView</div><div>Spectrum</div><div>Analog Demod</div></div><div><div>Ref Level 49.00 dBm Offset 30.50 dB</div><div>Att 20 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz</div><div>TIG:JPD(17MHz) VIG:Process</div></div><div>1 FM Time Domain</div><div><div>12.5 kHz</div><div>9.375 kHz</div><div>6.25 kHz</div><div>3.125 kHz</div><div>0 kHz</div><div>-3.125 kHz</div><div>-6.25 kHz</div><div>-9.375 kHz</div><div>-12.5 kHz</div></div><div><div>CF: 406.1125 MHz</div><div>1001 pts</div><div>10.0 ms</div></div><div>4 Result Summary</div><div><div>Carrier Power 40.57 dBm</div><div>Carrier Offset 43.90 Hz</div></div><div><div>FM</div><div>+Peak 12.566 kHz</div><div>-Peak -13.367 kHz</div><div>+Peak/2 12.966 kHz</div><div>RMS 8.7224 kHz</div><div>Mod. Freq. 1.0359 kHz</div><div>SINAD ---</div><div>THD ---</div></div><div>Analog Demod: Waiting for Trigger...</div><div>Measuring...</div><div>06.12.2019 10:11:02</div></div> |

ON-OFF