

Project No.	SHT2112110001EW		
Test sample No.	YPHT21121100022	Model No.	EM8100 U1
Start test date	2022/1/19	Finish date	2022/1/19
Temperature	22.8°C	Humidity	44%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaolong Zhu</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	1/19	PASS
B	Occupied Bandwidth	1/19	PASS
C	Emission Mask	1/19	PASS
D	Modulation Limit	1/19	PASS
E	Audio Frequency Response	1/19	PASS
F	Frequency Stability Test & Temperature	1/19	PASS
G	Frequency Stability Test & Voltage	1/19	PASS
H	Transmitter Frequency Behavior	1/19	PASS
I	Spurious Emission On Antenna Port	1/19	PASS

**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>	46.4	43.62	45.00	-3.1	±20	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	46.4	43.59	45.00	-3.1	±20	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	46.5	44.16	45.00	-1.9	±20	PASS
TX-DNH	4FSK	CH <sub>M3</sub>	46.7	46.62	45.00	3.6	±20	PASS
TX-DNH	4FSK	CH <sub>H</sub>	46.6	45.84	45.00	1.9	±20	PASS
TX-DNL	4FSK	CH <sub>L</sub>	37.0	5.04	5.00	0.8	±20	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	37.1	5.12	5.00	2.4	±20	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	37.1	5.14	5.00	2.8	±20	PASS
TX-DNL	4FSK	CH <sub>M3</sub>	37.3	5.32	5.00	6.4	±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>	46.4	44.06	45.00	-2.1	±20	PASS
TX-ANH	FM	CH <sub>M1</sub>	46.5	44.56	45.00	-1.0	±20	PASS
TX-ANH	FM	CH <sub>M2</sub>	46.5	44.90	45.00	-0.2	±20	PASS
TX-ANH	FM	CH <sub>M3</sub>	46.7	47.30	45.00	5.1	±20	PASS
TX-ANH	FM	CH <sub>H</sub>	46.7	46.96	45.00	4.4	±20	PASS
TX-ANL	FM	CH <sub>L</sub>	37.1	5.09	5.00	1.8	±20	PASS
TX-ANL	FM	CH <sub>M1</sub>	37.2	5.21	5.00	4.2	±20	PASS
TX-ANL	FM	CH <sub>M2</sub>	37.2	5.26	5.00	5.2	±20	PASS
TX-ANL	FM	CH <sub>M3</sub>	37.4	5.49	5.00	9.8	±20	PASS
TX-ANL	FM	CH <sub>H</sub>	37.1	5.13	5.00	2.6	±20	PASS

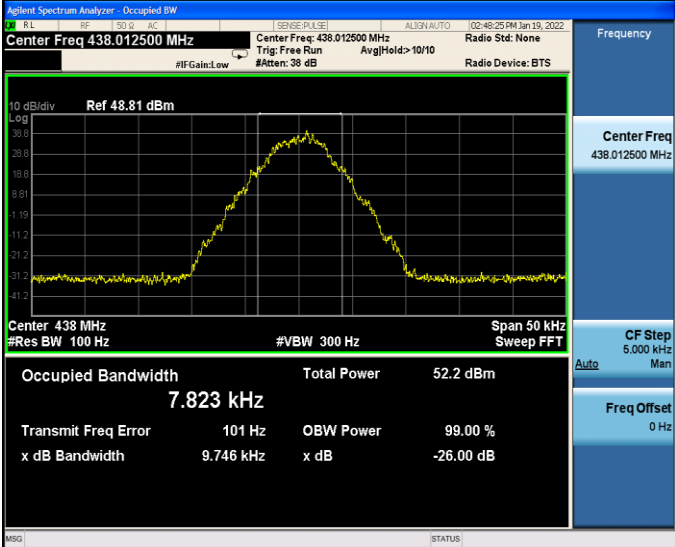
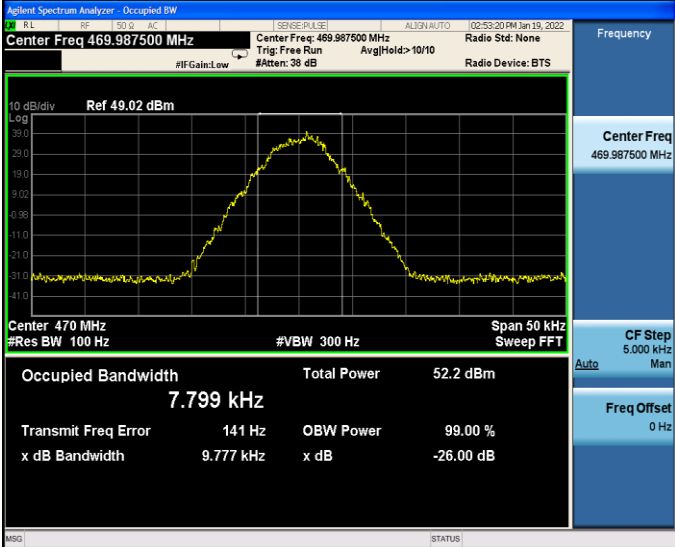
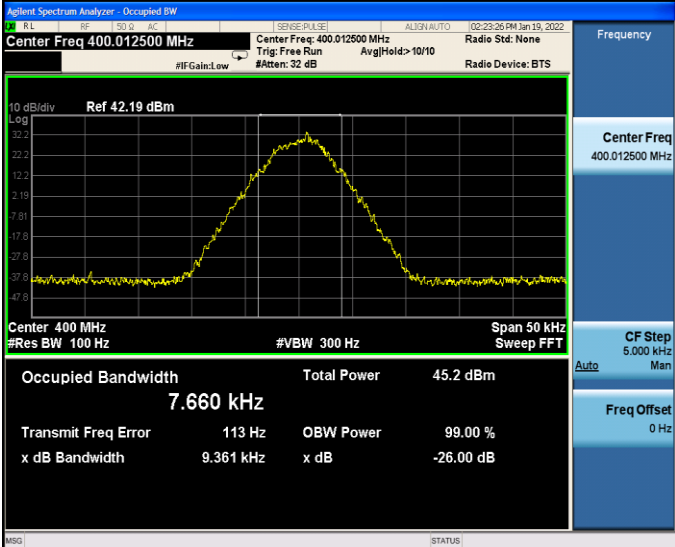
**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH <sub>L</sub>	7.710	9.624	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	7.805	9.677	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	7.923	9.828	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M3</sub>	7.823	9.746	≤11.25	PASS
TX-DNH	4FSK	CH <sub>H</sub>	7.799	9.777	≤11.25	PASS
TX-DNL	4FSK	CH <sub>L</sub>	7.660	9.361	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	7.803	9.684	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	7.706	9.458	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M3</sub>	7.912	9.780	≤11.25	PASS
TX-DNL	4FSK	CH <sub>H</sub>	7.855	9.588	≤11.25	PASS
TX-ANH	FM	CH <sub>L</sub>	9.989	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>M1</sub>	9.990	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>M2</sub>	9.990	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>M3</sub>	9.992	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>H</sub>	9.994	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>L</sub>	9.989	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>M1</sub>	9.990	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>M2</sub>	9.990	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>M3</sub>	9.991	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>H</sub>	9.994	10.170	≤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>Occupied Bandwidth 7.710 kHz</p> <p>Total Power 52.0 dBm</p> <p>Transmit Freq Error 23 Hz</p> <p>x dB Bandwidth 9.624 kHz</p>
TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz</p> <p>Occupied Bandwidth 7.805 kHz</p> <p>Total Power 51.9 dBm</p> <p>Transmit Freq Error 216 Hz</p> <p>x dB Bandwidth 9.677 kHz</p>
TX-DNH	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Occupied Bandwidth 7.923 kHz</p> <p>Total Power 52.1 dBm</p> <p>Transmit Freq Error 100 Hz</p> <p>x dB Bandwidth 9.828 kHz</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 48.81 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 7.823 kHz</p> <p>Total Power 52.2 dBm</p> <p>Transmit Freq Error 101 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.746 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 438.012500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</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 49.02 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 7.799 kHz</p> <p>Total Power 52.2 dBm</p> <p>Transmit Freq Error 141 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.777 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 469.987500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</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 42.19 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 7.660 kHz</p> <p>Total Power 45.2 dBm</p> <p>Transmit Freq Error 113 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.361 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 400.012500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>

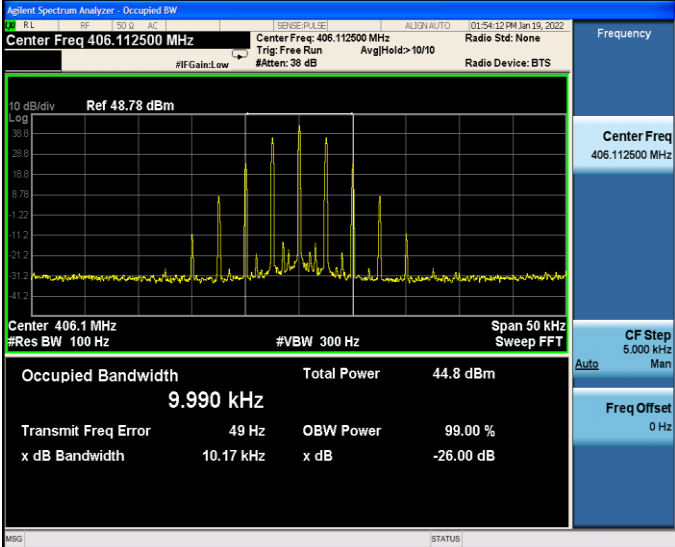
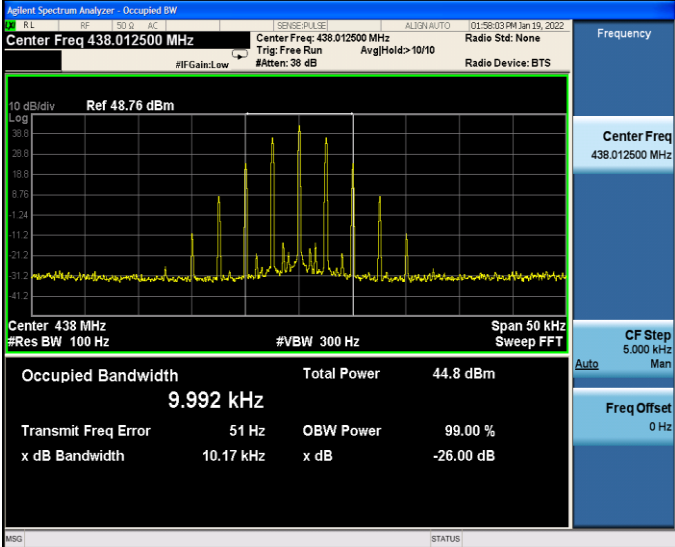
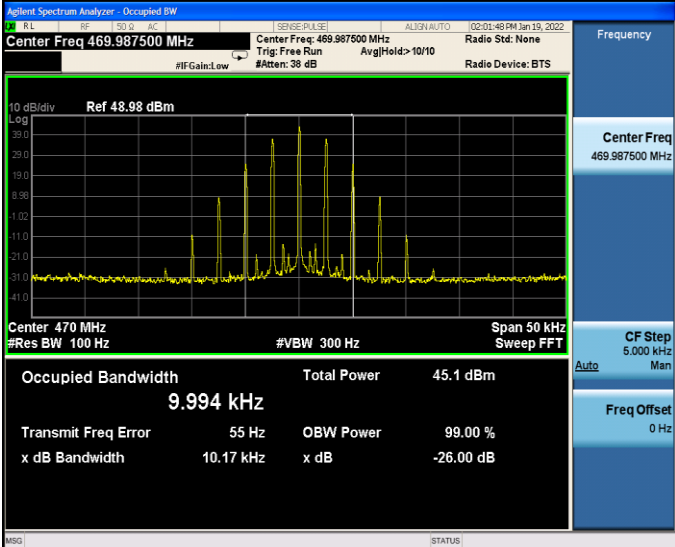
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW          Center Freq 405.987500 MHz          Center Freq: 405.987500 MHz          Trig: Free Run          #IFGain:Low          #Atten: 32 dB          AvgHold: &gt;10/10          Radio Std: None          Radio Device: BTS</p> <p>10 dB/div Ref 42.19 dBm          Log          Center 406 MHz          #Res BW 100 Hz          #VBW 300 Hz          Span 50 kHz          Sweep FFT</p> <p>Occupied Bandwidth 7.803 kHz          Total Power 45.3 dBm          Transmit Freq Error 110 Hz          OBW Power 99.00 %          x dB Bandwidth 9.684 kHz          x dB -26.00 dB</p> <p>Frequency 405.987500 MHz          CF Step 5.000 kHz          Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW          Center Freq 406.112500 MHz          Center Freq: 406.112500 MHz          Trig: Free Run          #IFGain:Low          #Atten: 32 dB          AvgHold: &gt;10/10          Radio Std: None          Radio Device: BTS</p> <p>10 dB/div Ref 42.23 dBm          Log          Center 406.1 MHz          #Res BW 100 Hz          #VBW 300 Hz          Span 50 kHz          Sweep FFT</p> <p>Occupied Bandwidth 7.706 kHz          Total Power 45.5 dBm          Transmit Freq Error 131 Hz          OBW Power 99.00 %          x dB Bandwidth 9.458 kHz          x dB -26.00 dB</p> <p>Frequency 406.112500 MHz          CF Step 5.000 kHz          Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Occupied BW          Center Freq 438.012500 MHz          Center Freq: 438.012500 MHz          Trig: Free Run          #IFGain:Low          #Atten: 30 dB          AvgHold: &gt;10/10          Radio Std: None          Radio Device: BTS</p> <p>10 dB/div Ref 42.18 dBm          Log          Center 438 MHz          #Res BW 100 Hz          #VBW 300 Hz          Span 50 kHz          Sweep FFT</p> <p>Occupied Bandwidth 7.912 kHz          Total Power 45.3 dBm          Transmit Freq Error 148 Hz          OBW Power 99.00 %          x dB Bandwidth 9.780 kHz          x dB -26.00 dB</p> <p>Frequency 438.012500 MHz          CF Step 5.000 kHz          Freq Offset 0 Hz</p>

Appendix B:Occupied Bandwidth

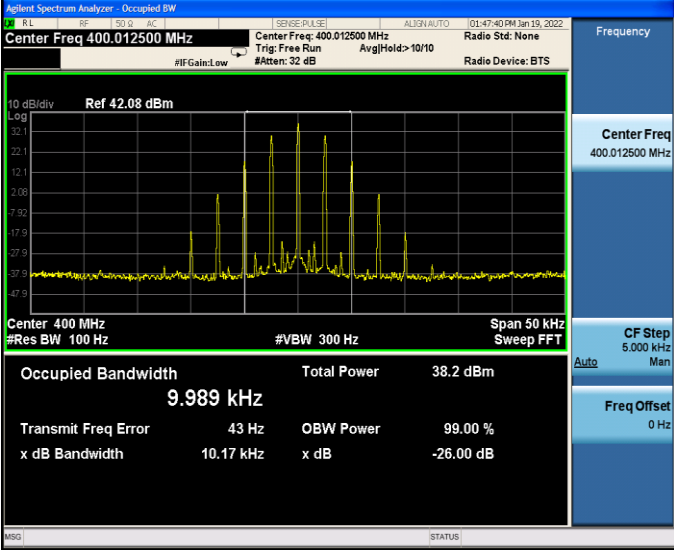
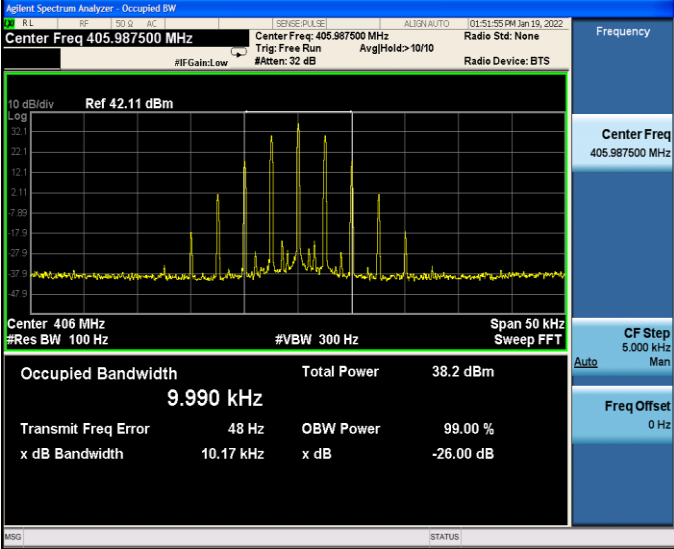
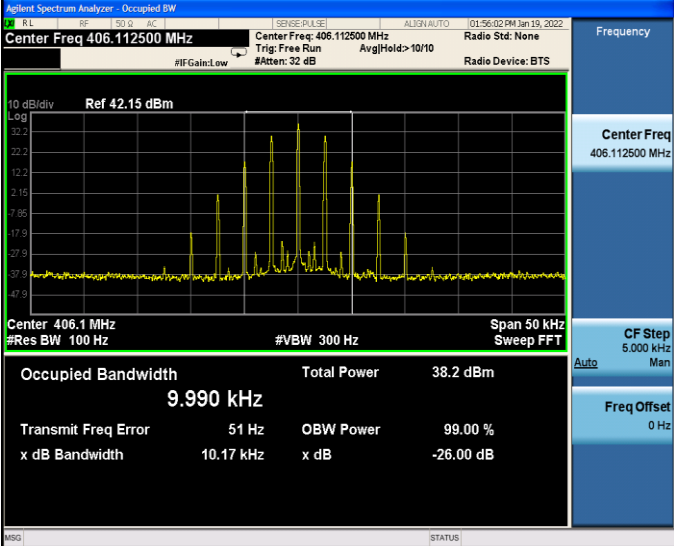
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW          Center Freq 469.987500 MHz          #Res BW 100 Hz          #VBW 300 Hz          Span 50 kHz          Sweep FFT          Occupied Bandwidth 7.855 kHz          Total Power 43.4 dBm          Transmit Freq Error 130 Hz          x dB Bandwidth 9.588 kHz</p>
TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW          Center Freq 400.012500 MHz          #Res BW 100 Hz          #VBW 300 Hz          Span 50 kHz          Sweep FFT          Occupied Bandwidth 9.989 kHz          Total Power 44.9 dBm          Transmit Freq Error 45 Hz          x dB Bandwidth 10.17 kHz</p>
TX-ANH	FM	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW          Center Freq 405.987500 MHz          #Res BW 100 Hz          #VBW 300 Hz          Span 50 kHz          Sweep FFT          Occupied Bandwidth 9.990 kHz          Total Power 44.8 dBm          Transmit Freq Error 47 Hz          x dB Bandwidth 10.17 kHz</p>

Appendix B:Occupied Bandwidth

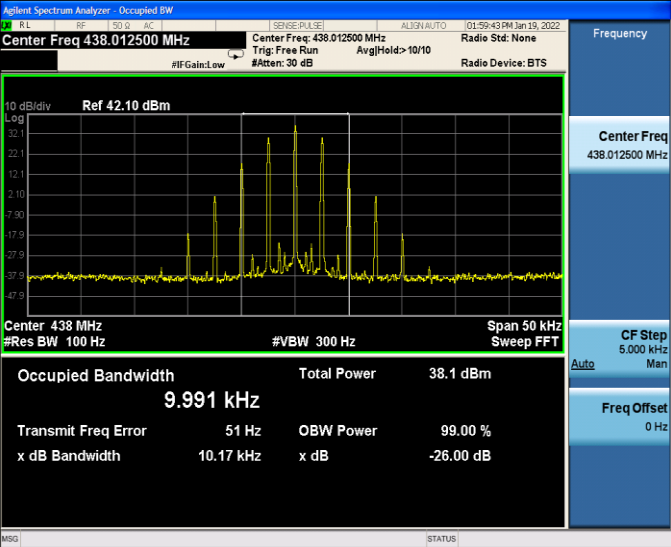
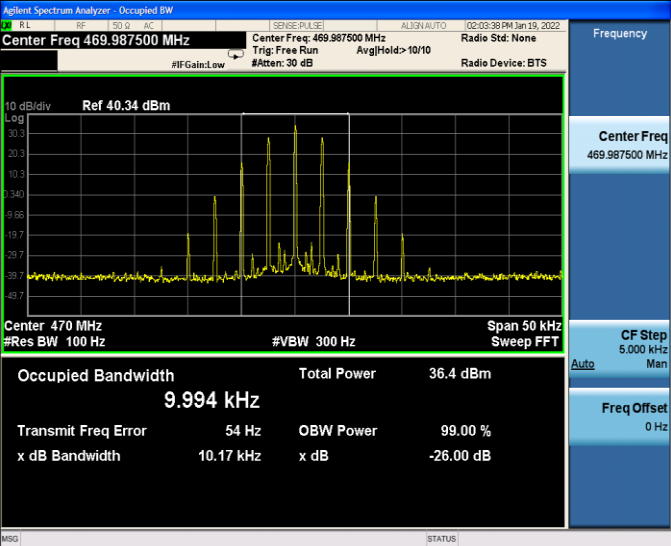
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Occupied Bandwidth 9.990 kHz</p> <p>Total Power 44.8 dBm</p> <p>Transmit Freq Error 49 Hz</p> <p>x dB Bandwidth 10.17 kHz</p>
TX-ANH	FM	CH <sub>M3</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Occupied Bandwidth 9.992 kHz</p> <p>Total Power 44.8 dBm</p> <p>Transmit Freq Error 51 Hz</p> <p>x dB Bandwidth 10.17 kHz</p>
TX-ANH	FM	CH <sub>H</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz</p> <p>Occupied Bandwidth 9.994 kHz</p> <p>Total Power 45.1 dBm</p> <p>Transmit Freq Error 55 Hz</p> <p>x dB Bandwidth 10.17 kHz</p>



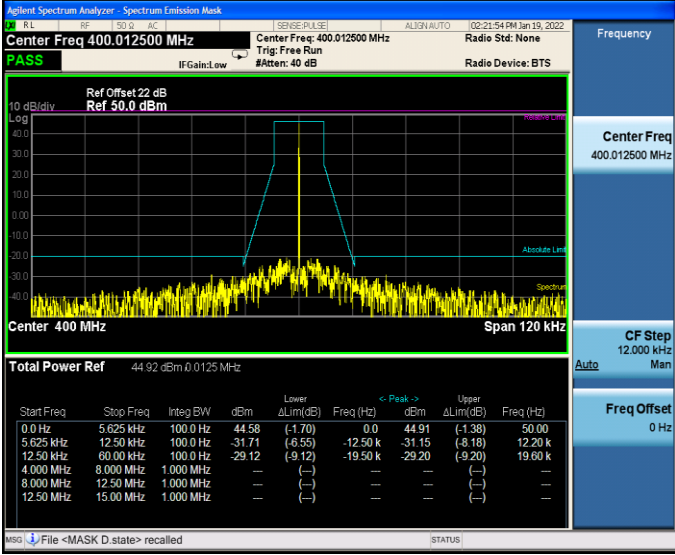
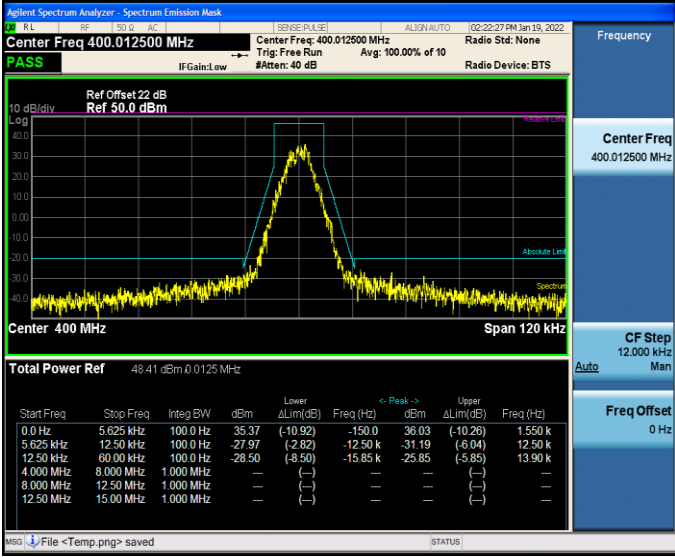
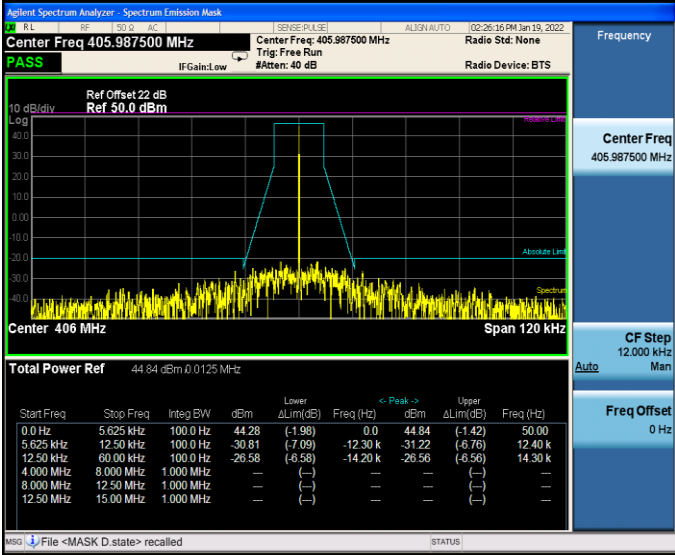
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH <sub>L</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz</p> <p>Occupied Bandwidth: 9.989 kHz</p> <p>Total Power: 38.2 dBm</p> <p>Transmit Freq Error: 43 Hz</p> <p>x dB Bandwidth: 10.17 kHz</p>
TX-ANL	FM	CH <sub>M1</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz</p> <p>Occupied Bandwidth: 9.990 kHz</p> <p>Total Power: 38.2 dBm</p> <p>Transmit Freq Error: 48 Hz</p> <p>x dB Bandwidth: 10.17 kHz</p>
TX-ANL	FM	CH <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Occupied Bandwidth: 9.990 kHz</p> <p>Total Power: 38.2 dBm</p> <p>Transmit Freq Error: 51 Hz</p> <p>x dB Bandwidth: 10.17 kHz</p>

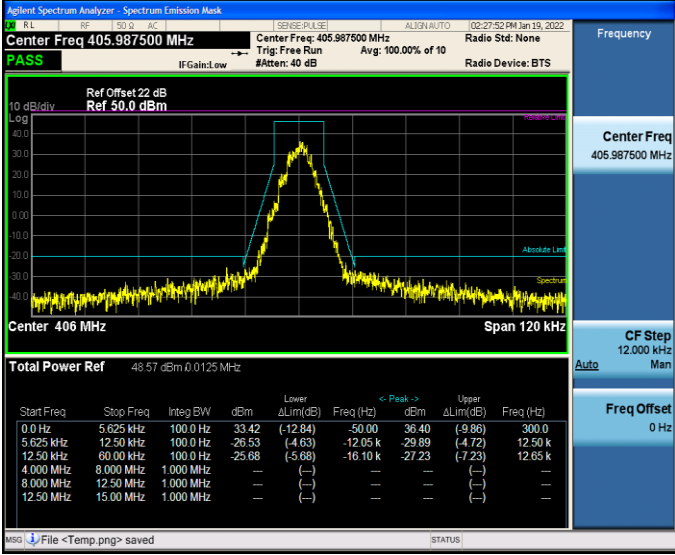
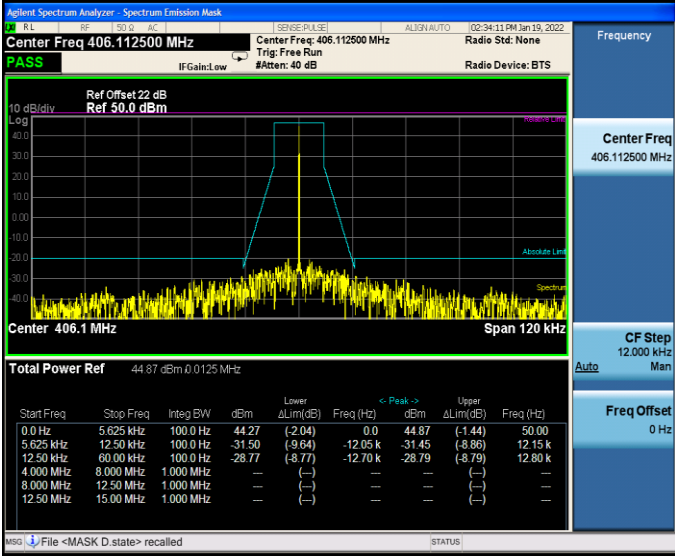
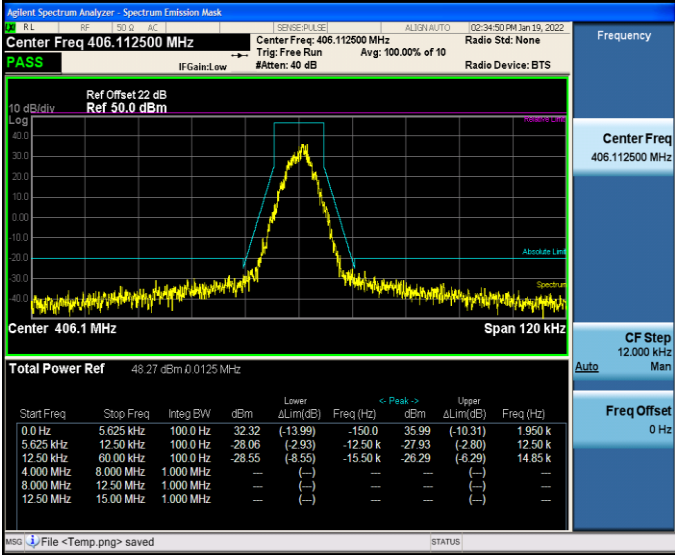
Appendix B:Occupied Bandwidth

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 AvgHold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 42.10 dBm</p> <p>Center 438 MHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.991 kHz Total Power 38.1 dBm</p> <p>Transmit Freq Error 51 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz x dB -26.00 dB</p> <p>Frequency 438.012500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</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 AvgHold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.34 dBm</p> <p>Center 470 MHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.994 kHz Total Power 36.4 dBm</p> <p>Transmit Freq Error 54 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz x dB -26.00 dB</p> <p>Frequency 469.987500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>

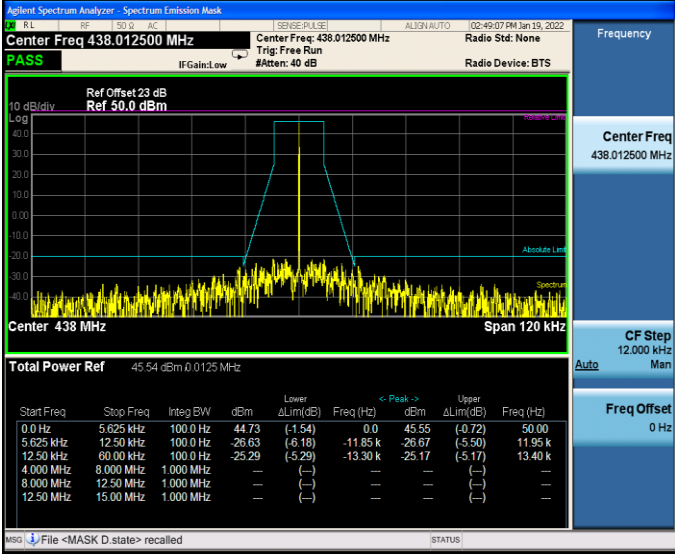
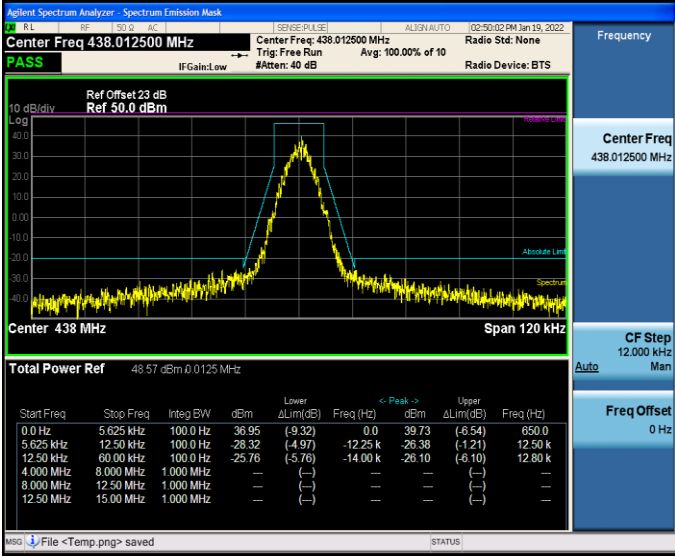
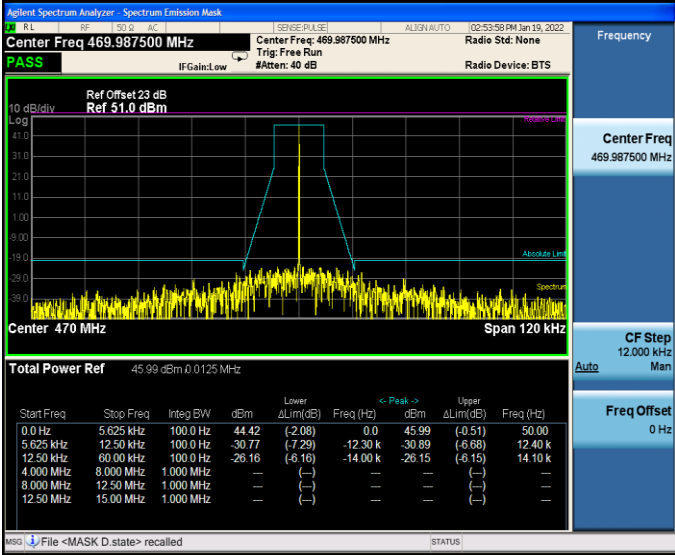
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>L</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq 400.012500 MHz    Center Freq: 400.012500 MHz    Radio Std: None</p> <p>Trig: Free Run    #Atten: 40 dB    Radio Device: BTS</p> <p>Ref Offset 22 dB    Ref 50.0 dBm</p> <p>Center 400 MHz    Span 120 kHz</p> <p>Total Power Ref 44.92 dBm @ 0.125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>44.58</td> <td>(-1.70)</td> <td>0.0</td> <td>44.91</td> <td>(-1.38)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-31.71</td> <td>(-6.55)</td> <td>-12.50 k</td> <td>-31.15</td> <td>(-8.18)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-29.12</td> <td>(-9.12)</td> <td>-19.50 k</td> <td>-29.20</td> <td>(-9.20)</td> <td>19.60 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.58	(-1.70)	0.0	44.91	(-1.38)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-31.71	(-6.55)	-12.50 k	-31.15	(-8.18)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.12	(-9.12)	-19.50 k	-29.20	(-9.20)	19.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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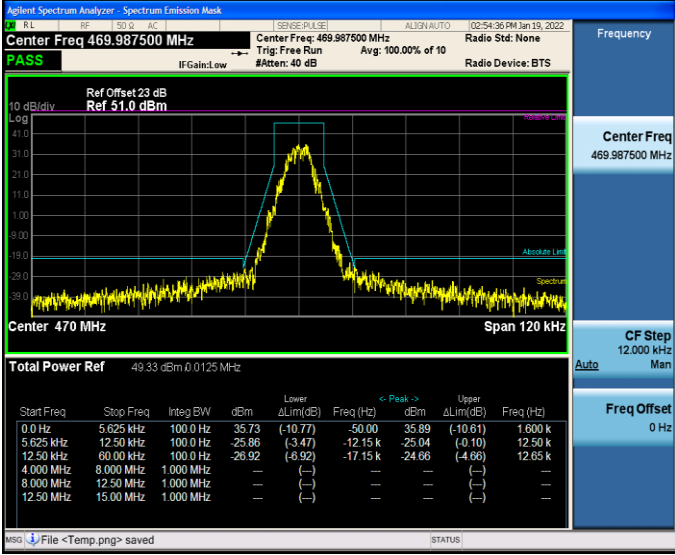
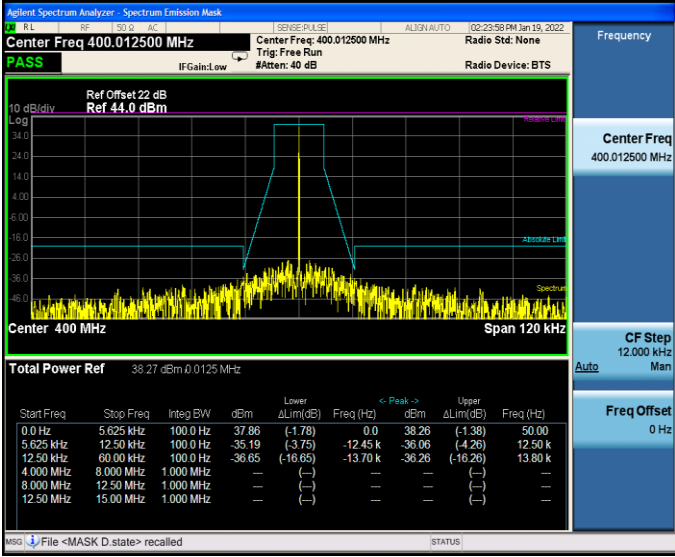
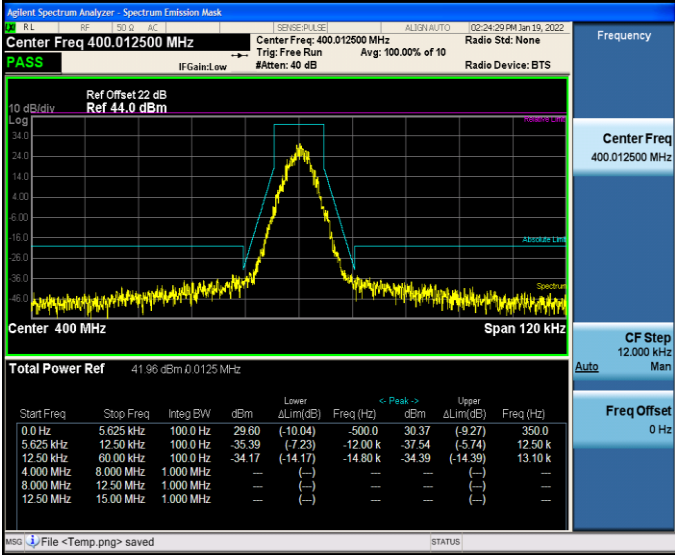
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TX-DNH	4FSK	CH <sub>M2</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 406.112500 MHz   Center Freq: 406.112500 MHz   Radio Std: None</p> <p>Ref Offset: 22 dB   Ref: 50.0 dBm</p> <p>Center: 406.1 MHz   Span: 120 kHz</p> <p>Total Power Ref: 48.27 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>32.32</td> <td>(-13.99)</td> <td>-150.0</td> <td>35.99</td> <td>(-10.31)</td> <td>1.950 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-28.06</td> <td>(-2.93)</td> <td>-12.50 k</td> <td>-27.93</td> <td>(-2.80)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-28.55</td> <td>(-8.55)</td> <td>-15.50 k</td> <td>-26.29</td> <td>(-6.29)</td> <td>14.85 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.32	(-13.99)	-150.0	35.99	(-10.31)	1.950 k	5.625 kHz	12.50 kHz	100.0 Hz	-28.06	(-2.93)	-12.50 k	-27.93	(-2.80)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-28.55	(-8.55)	-15.50 k	-26.29	(-6.29)	14.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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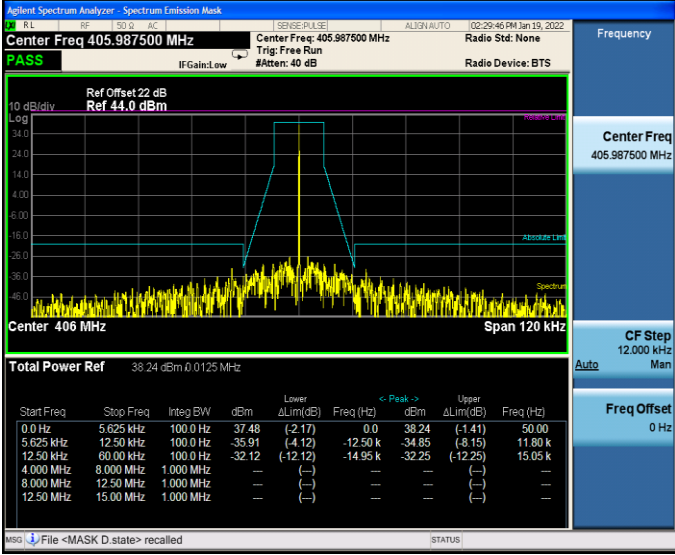
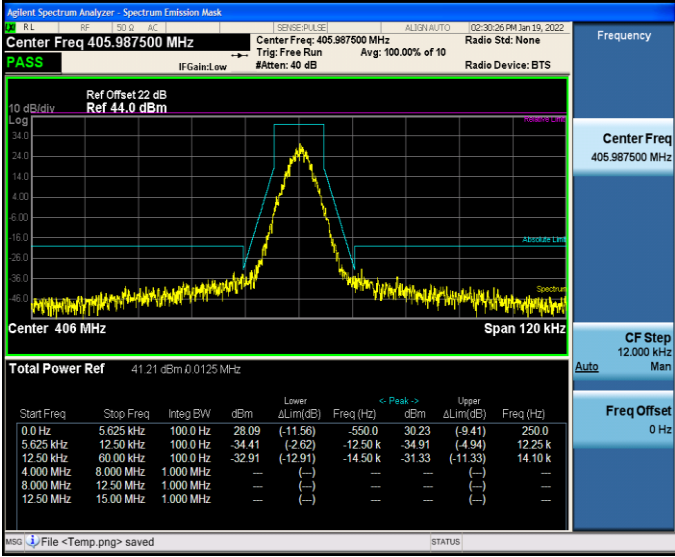
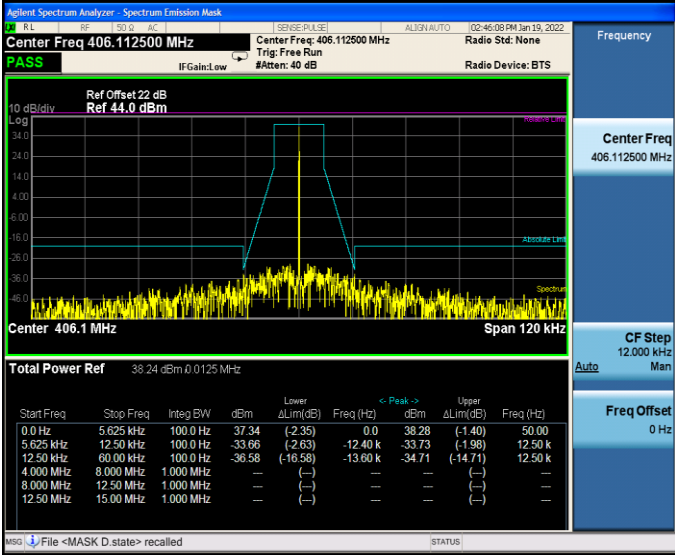
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>M3</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 438.012500 MHz, Radio Std: None, Radio Device: BTS</p> <p>Ref Offset 23 dB, Ref 50.0 dBm</p> <p>Center 438 MHz, Span 120 kHz</p> <p>Total Power Ref: 45.54 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>44.73</td> <td>(-1.54)</td> <td>0.0</td> <td>45.55</td> <td>(-0.72)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-26.63</td> <td>(-6.18)</td> <td>-11.85 k</td> <td>-26.67</td> <td>(-5.50)</td> <td>11.95 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-25.29</td> <td>(-5.29)</td> <td>-13.30 k</td> <td>-25.17</td> <td>(-5.17)</td> <td>13.40 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.73	(-1.54)	0.0	45.55	(-0.72)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-26.63	(-6.18)	-11.85 k	-26.67	(-5.50)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.29	(-5.29)	-13.30 k	-25.17	(-5.17)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
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TX-DNH	4FSK	CH <sub>H</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 469.987500 MHz, Radio Std: None, Radio Device: BTS</p> <p>Ref Offset 23 dB, Ref 51.0 dBm</p> <p>Center 470 MHz, Span 120 kHz</p> <p>Total Power Ref: 45.99 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>44.42</td> <td>(-2.08)</td> <td>0.0</td> <td>45.99</td> <td>(-0.51)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-30.77</td> <td>(-7.29)</td> <td>-12.30 k</td> <td>-30.89</td> <td>(-6.68)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-26.16</td> <td>(-6.16)</td> <td>-14.00 k</td> <td>-26.15</td> <td>(-6.15)</td> <td>14.10 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.42	(-2.08)	0.0	45.99	(-0.51)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-30.77	(-7.29)	-12.30 k	-30.89	(-6.68)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.16	(-6.16)	-14.00 k	-26.15	(-6.15)	14.10 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
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Appendix C:Emission Mask

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TX-DNH	4FSK	CH <sub>H</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 469.987500 MHz   Center Freq: 469.987500 MHz   Radio Std: None</p> <p>Ref Offset: 23 dB   Ref: 51.0 dBm</p> <p>Total Power Ref: 49.33 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.73</td> <td>(-10.77)</td> <td>-50.00</td> <td>35.89</td> <td>(-10.61)</td> <td>1.600 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-25.86</td> <td>(-3.47)</td> <td>-12.15 k</td> <td>-25.04</td> <td>(-0.10)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-26.92</td> <td>(-6.92)</td> <td>-17.15 k</td> <td>-24.66</td> <td>(-4.66)</td> <td>12.65 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.73	(-10.77)	-50.00	35.89	(-10.61)	1.600 k	5.625 kHz	12.50 kHz	100.0 Hz	-25.86	(-3.47)	-12.15 k	-25.04	(-0.10)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.92	(-6.92)	-17.15 k	-24.66	(-4.66)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH <sub>L</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 400.012500 MHz   Center Freq: 400.012500 MHz   Radio Std: None</p> <p>Ref Offset: 22 dB   Ref: 44.0 dBm</p> <p>Total Power Ref: 38.27 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>37.86</td> <td>(-1.78)</td> <td>0.0</td> <td>38.28</td> <td>(-1.38)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.19</td> <td>(3.75)</td> <td>-12.45 k</td> <td>-36.06</td> <td>(-4.25)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.65</td> <td>(-16.65)</td> <td>-13.70 k</td> <td>-36.26</td> <td>(-16.26)</td> <td>13.80 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.86	(-1.78)	0.0	38.28	(-1.38)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.19	(3.75)	-12.45 k	-36.06	(-4.25)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.65	(-16.65)	-13.70 k	-36.26	(-16.26)	13.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

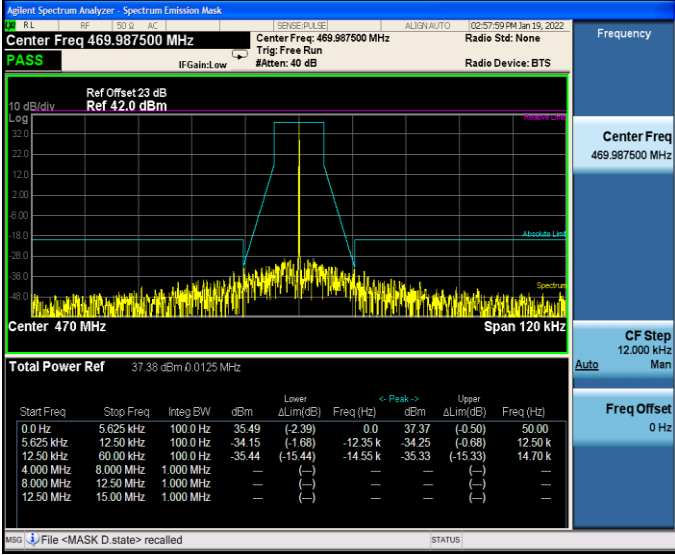
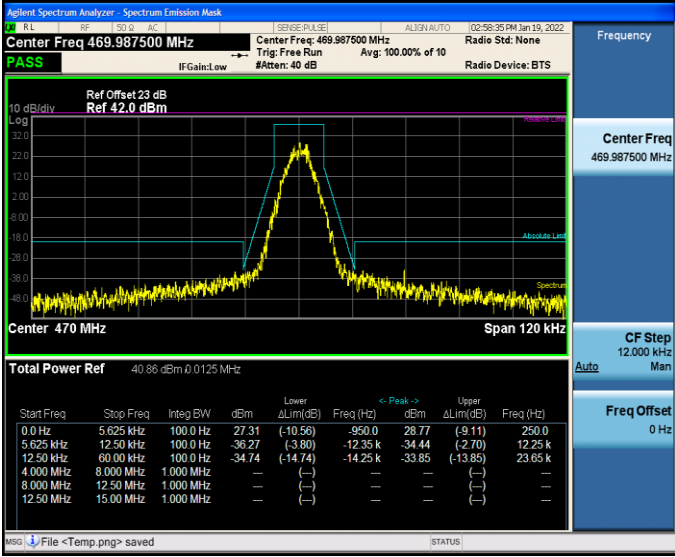
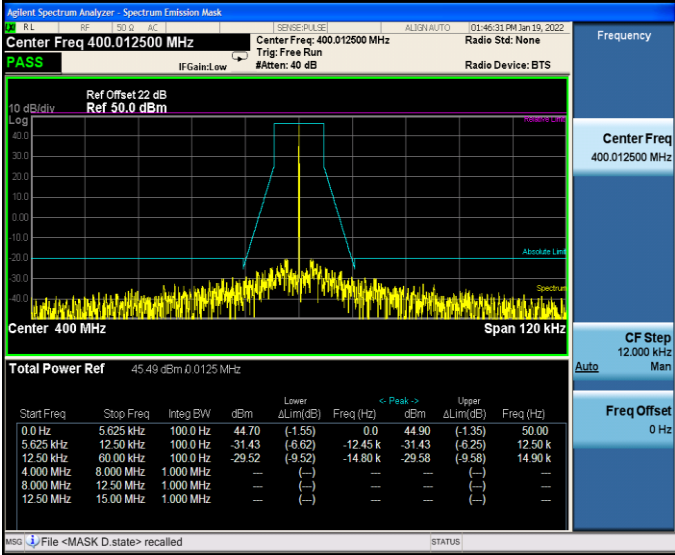
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH <sub>M1</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 405.987500 MHz, Center Freq: 405.987500 MHz, Radio Std: None</p> <p>Ref Offset 22 dB, Ref 44.0 dBm</p> <p>Total Power Ref: 38.24 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>37.48</td> <td>(-2.17)</td> <td>0.0</td> <td>38.24</td> <td>(-1.41)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.91</td> <td>(-4.12)</td> <td>-12.50 k</td> <td>-34.85</td> <td>(-8.15)</td> <td>11.80 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-32.12</td> <td>(-12.12)</td> <td>-14.95 k</td> <td>-32.25</td> <td>(-12.25)</td> <td>15.05 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.48	(-2.17)	0.0	38.24	(-1.41)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.91	(-4.12)	-12.50 k	-34.85	(-8.15)	11.80 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.12	(-12.12)	-14.95 k	-32.25	(-12.25)	15.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz    Center Freq: 406.112500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 22 dB    Ref 44.0 dBm</p> <p>Center 406.1 MHz    Span 120 kHz</p> <p>Total Power Ref 42.19 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>29.92</td> <td>(-9.77)</td> <td>-850.0</td> <td>31.38</td> <td>(-8.31)</td> <td>1.000 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.29</td> <td>(-3.54)</td> <td>-12.50 k</td> <td>-34.66</td> <td>(-5.09)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.84</td> <td>(-13.84)</td> <td>-14.00 k</td> <td>-33.02</td> <td>(-13.02)</td> <td>12.90 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.92	(-9.77)	-850.0	31.38	(-8.31)	1.000 k	5.625 kHz	12.50 kHz	100.0 Hz	-35.29	(-3.54)	-12.50 k	-34.66	(-5.09)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.84	(-13.84)	-14.00 k	-33.02	(-13.02)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz    Center Freq: 438.012500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 23 dB    Ref 44.0 dBm</p> <p>Center 438 MHz    Span 120 kHz</p> <p>Total Power Ref 38.88 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>37.90</td> <td>(-1.72)</td> <td>0.0</td> <td>38.88</td> <td>(-1.72)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-34.73</td> <td>(3.64)</td> <td>-12.40 k</td> <td>-34.68</td> <td>(2.86)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.63</td> <td>(-14.63)</td> <td>-12.90 k</td> <td>-34.46</td> <td>(-14.46)</td> <td>13.00 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.90	(-1.72)	0.0	38.88	(-1.72)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-34.73	(3.64)	-12.40 k	-34.68	(2.86)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.63	(-14.63)	-12.90 k	-34.46	(-14.46)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH <sub>H</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 469.987500 MHz, Radio Std: None, Radio Device: BTS</p> <p>Ref Offset: 23 dB, Ref: 42.0 dBm</p> <p>Center: 470 MHz, Span: 120 kHz</p> <p>Total Power Ref: 37.38 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.49</td> <td>(-2.39)</td> <td>0.0</td> <td>37.37</td> <td>(-0.50)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-34.15</td> <td>(-1.68)</td> <td>-12.35 k</td> <td>-34.25</td> <td>(-0.68)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.44</td> <td>(-15.44)</td> <td>-14.55 k</td> <td>-35.33</td> <td>(-15.33)</td> <td>14.70 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.49	(-2.39)	0.0	37.37	(-0.50)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-34.15	(-1.68)	-12.35 k	-34.25	(-0.68)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.44	(-15.44)	-14.55 k	-35.33	(-15.33)	14.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH <sub>L</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 400.012500 MHz, Radio Std: None, Radio Device: BTS</p> <p>Ref Offset: 22 dB, Ref: 50.0 dBm</p> <p>Center: 400 MHz, Span: 120 kHz</p> <p>Total Power Ref: 45.49 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>44.70</td> <td>(-1.55)</td> <td>0.0</td> <td>44.90</td> <td>(-1.35)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-31.43</td> <td>(-6.62)</td> <td>-12.45 k</td> <td>-31.43</td> <td>(-6.25)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-29.52</td> <td>(-9.52)</td> <td>-14.80 k</td> <td>-29.58</td> <td>(-9.58)</td> <td>14.90 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.70	(-1.55)	0.0	44.90	(-1.35)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-31.43	(-6.62)	-12.45 k	-31.43	(-6.25)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.52	(-9.52)	-14.80 k	-29.58	(-9.58)	14.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 kHz	60.00 kHz	100.0 Hz	-29.52	(-9.52)	-14.80 k	-29.58	(-9.58)	14.90 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 400.012500 MHz</p> <p>Total Power Ref: 45.32 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>42.90</td> <td>(-3.35)</td> <td>0.0</td> <td>43.08</td> <td>(-3.18)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-25.84</td> <td>(-0.66)</td> <td>-12.50 k</td> <td>-26.87</td> <td>(-1.69)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-23.79</td> <td>(-3.79)</td> <td>-12.50 k</td> <td>-24.70</td> <td>(-4.70)</td> <td>12.55 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	42.90	(-3.35)	0.0	43.08	(-3.18)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-25.84	(-0.66)	-12.50 k	-26.87	(-1.69)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.79	(-3.79)	-12.50 k	-24.70	(-4.70)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	8.000 MHz	12.50 MHz	1.000 MHz	--	(--)	--	--	(--)	--	12.50 MHz	15.00 MHz	1.000 MHz	--	(--)	--	--	(--)	--
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TX-ANH	FM	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 405.987500 MHz</p> <p>Total Power Ref: 44.84 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>44.43</td> <td>(-1.91)</td> <td>0.0</td> <td>44.83</td> <td>(-1.41)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-27.95</td> <td>(-7.12)</td> <td>-11.90 k</td> <td>-27.97</td> <td>(-6.41)</td> <td>12.00 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-27.63</td> <td>(-7.63)</td> <td>-12.50 k</td> <td>-26.25</td> <td>(-6.25)</td> <td>12.50 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.43	(-1.91)	0.0	44.83	(-1.41)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-27.95	(-7.12)	-11.90 k	-27.97	(-6.41)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-27.63	(-7.63)	-12.50 k	-26.25	(-6.25)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	8.000 MHz	12.50 MHz	1.000 MHz	--	(--)	--	--	(--)	--	12.50 MHz	15.00 MHz	1.000 MHz	--	(--)	--	--	(--)	--
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TX-ANH	FM	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 405.987500 MHz</p> <p>Total Power Ref: 44.85 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>42.61</td> <td>(-3.63)</td> <td>0.0</td> <td>43.04</td> <td>(-3.19)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-26.23</td> <td>(-1.03)</td> <td>-12.50 k</td> <td>-27.53</td> <td>(-2.33)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-26.41</td> <td>(-6.41)</td> <td>-12.90 k</td> <td>-27.23</td> <td>(-7.23)</td> <td>13.55 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	42.61	(-3.63)	0.0	43.04	(-3.19)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-26.23	(-1.03)	-12.50 k	-27.53	(-2.33)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.41	(-6.41)	-12.90 k	-27.23	(-7.23)	13.55 k	4.000 MHz	8.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	8.000 MHz	12.50 MHz	1.000 MHz	--	(--)	--	--	(--)	--	12.50 MHz	15.00 MHz	1.000 MHz	--	(--)	--	--	(--)	--
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