





## 8 APPENDIX REPORT



**Appendix A:Maximum Transmitter Power For VHF Band**

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>	36.7	4.68	5.00	-6.5	±20	PASS
TX-DNH	4FSK	CH <sub>M</sub>	36.8	4.79	5.00	-4.3	±20	PASS
TX-DNH	4FSK	CH <sub>H</sub>	36.4	4.37	5.00	-12.7	±20	PASS
TX-DNL	4FSK	CH <sub>L</sub>	29.1	0.81	1.00	-18.7	±20	PASS
TX-DNL	4FSK	CH <sub>M</sub>	29.7	0.93	1.00	-6.7	±20	PASS
TX-DNL	4FSK	CH <sub>H</sub>	29.2	0.83	1.00	-16.8	±20	PASS

**Appendix A:Maximum Transmitter Power For UHF Band**

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH <sub>L1</sub>	36.7	4.68	5.00	-6.5	±20	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	36.8	4.79	5.00	-4.3	±20	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	36.4	4.37	5.00	-12.7	±20	PASS
TX-DNH	4FSK	CH <sub>M3</sub>	36.7	4.68	5.00	-6.5	±20	PASS
TX-DNH	4FSK	CH <sub>H1</sub>	36.6	4.57	5.00	-8.6	±20	PASS
TX-DNL	4FSK	CH <sub>L1</sub>	29.9	0.97	1.00	-2.9	±20	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	29.6	0.91	1.00	-8.8	±20	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	29.8	0.95	1.00	-4.5	±20	PASS
TX-DNL	4FSK	CH <sub>M3</sub>	29.7	0.93	1.00	-6.7	±20	PASS
TX-DNL	4FSK	CH <sub>H1</sub>	29.4	0.87	1.00	-12.9	±20	PASS

**Appendix B:Occupied Bandwidth For VHF Band**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH <sub>L</sub>	7.104	9.321	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M</sub>	7.279	9.236	≤11.25	PASS
TX-DNH	4FSK	CH <sub>H</sub>	7.152	9.255	≤11.25	PASS
TX-DNL	4FSK	CH <sub>L</sub>	7.330	9.712	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M</sub>	7.173	9.520	≤11.25	PASS
TX-DNL	4FSK	CH <sub>H</sub>	7.179	9.250	≤11.25	PASS



Appendix B:Occupied Bandwidth For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None            #IF Gain: Low #Att: 22 dB Avg Hold: &gt;10/10 Radio Device: BTS</p> <p>10 dB/div Ref 37.56 dBm            Center: 136 MHz Span 50 kHz            #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.104 kHz Total Power 40.5 dBm            Transmit Freq Error 78 Hz OBW Power 99.00 %            x dB Bandwidth 9.324 kHz x dB -26.00 dB</p> <p>Frequency: 136.012500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None            #IF Gain: Low #Att: 22 dB Avg Hold: &gt;10/10 Radio Device: BTS</p> <p>10 dB/div Ref 37.87 dBm            Center: 155 MHz Span 50 kHz            #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.279 kHz Total Power 40.3 dBm            Transmit Freq Error 37 Hz OBW Power 99.00 %            x dB Bandwidth 9.236 kHz x dB -26.00 dB</p> <p>Frequency: 155.012500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None            #IF Gain: Low #Att: 24 dB Avg Hold: &gt;10/10 Radio Device: BTS</p> <p>10 dB/div Ref 38.74 dBm            Center: 174 MHz Span 50 kHz            #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.152 kHz Total Power 40.8 dBm            Transmit Freq Error 140 Hz OBW Power 99.00 %            x dB Bandwidth 9.255 kHz x dB -26.00 dB</p> <p>Frequency: 173.987500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>



Appendix B:Occupied Bandwidth For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 136.012500 MHz            Center Freq: 136.012500 MHz            Radio Std: None            #IFGain:Low #Atten: 22 dB AvgHold&gt; 10/10 Radio Device: BTS</p> <p>10 dB/div Ref 36.31 dBm            Center 136 MHz Span 50 kHz            #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.330 kHz Total Power 38.6 dBm            Transmit Freq Error 48 Hz OBW Power 99.00 %            x dB Bandwidth 9.712 kHz x dB -26.00 dB</p> <p>Frequency: 136.012500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 155.012500 MHz            Center Freq: 155.012500 MHz            Radio Std: None            #IFGain:Low #Atten: 22 dB AvgHold&gt; 10/10 Radio Device: BTS</p> <p>10 dB/div Ref 37.75 dBm            Center 155 MHz Span 50 kHz            #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.173 kHz Total Power 40.4 dBm            Transmit Freq Error 87 Hz OBW Power 99.00 %            x dB Bandwidth 9.520 kHz x dB -26.00 dB</p> <p>Frequency: 155.012500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 173.987500 MHz            Center Freq: 173.987500 MHz            Radio Std: None            #IFGain:Low #Atten: 10 dB AvgHold&gt; 10/10 Radio Device: BTS</p> <p>10 dB/div Ref 32.84 dBm            Center 174 MHz Span 50 kHz            #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.179 kHz Total Power 35.1 dBm            Transmit Freq Error 37 Hz OBW Power 99.00 %            x dB Bandwidth 9.250 kHz x dB -26.00 dB</p> <p>Frequency: 173.987500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>

**Appendix B:Occupied Bandwidth For UHF Band**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH <sub>L1</sub>	7.183	9.342	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	7.220	9.246	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	7.138	9.303	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M3</sub>	7.143	9.231	≤11.25	PASS
TX-DNH	4FSK	CH <sub>H1</sub>	7.198	9.360	≤11.25	PASS
TX-DNL	4FSK	CH <sub>L1</sub>	7.514	9.928	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	7.140	9.493	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	6.919	9.272	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M3</sub>	7.097	9.288	≤11.25	PASS
TX-DNL	4FSK	CH <sub>H1</sub>	7.422	9.658	≤11.25	PASS





Appendix B:Occupied Bandwidth For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold&gt;10/10</p> <p>#IFGain:Low #Atten: 22 dB Radio Device: BTS</p> <p>10 dB/div Ref 38.67 dBm</p> <p>Center 400 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.183 kHz Total Power 41.1 dBm</p> <p>Transmit Freq Error 215 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.342 kHz 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 Center Freq: 405.987500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold&gt;10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 39.29 dBm</p> <p>Center 406 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.220 kHz Total Power 41.7 dBm</p> <p>Transmit Freq Error 97 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.346 kHz 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 Center Freq: 406.112500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold&gt;10/10</p> <p>#IFGain:Low #Atten: 22 dB Radio Device: BTS</p> <p>10 dB/div Ref 39.05 dBm</p> <p>Center 406.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.138 kHz Total Power 41.6 dBm</p> <p>Transmit Freq Error 191 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.303 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



Appendix B:Occupied Bandwidth For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 438.012500 MHz    Center Freq: 438.012500 MHz    Radio Std: None            #IFGain:Low    #Atten: 24 dB    AvgHld: &gt;10/10    Radio Device: BTS</p> <p>10 dB/div    Ref 39.66 dBm</p> <p>Center 438 MHz    Span 50 kHz            #Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    42.2 dBm  <b>7.143 kHz</b></p> <p>Transmit Freq Error    176 Hz    OBW Power    99.00 %            x dB Bandwidth    9.231 kHz    x dB    -26.00 dB</p> <p>Frequency: 438.012500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH <sub>H1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 469.987500 MHz    Center Freq: 469.987500 MHz    Radio Std: None            #IFGain:Low    #Atten: 24 dB    AvgHld: &gt;10/10    Radio Device: BTS</p> <p>10 dB/div    Ref 39.19 dBm</p> <p>Center 470 MHz    Span 50 kHz            #Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    41.8 dBm  <b>7.198 kHz</b></p> <p>Transmit Freq Error    117 Hz    OBW Power    99.00 %            x dB Bandwidth    9.360 kHz    x dB    -26.00 dB</p> <p>Frequency: 469.987500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW            Center Freq 400.012500 MHz    Center Freq: 400.012500 MHz    Radio Std: None            #IFGain:Low    #Atten: 20 dB    AvgHld: &gt;10/10    Radio Device: BTS</p> <p>10 dB/div    Ref 36.33 dBm</p> <p>Center 400 MHz    Span 50 kHz            #Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    38.7 dBm  <b>7.514 kHz</b></p> <p>Transmit Freq Error    134 Hz    OBW Power    99.00 %            x dB Bandwidth    9.928 kHz    x dB    -26.00 dB</p> <p>Frequency: 400.012500 MHz            CF Step: 5.000 kHz            Freq Offset: 0 Hz</p>



Appendix B:Occupied Bandwidth For UHF Band

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 Center Freq: 405.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: &gt;10/10</p> <p>#IF Gain: Low #Atten: 20 dB Radio Device: BTS</p> <p>10 dB/div Ref 36.18 dBm</p> <p>Center 406 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.140 kHz Total Power 39.1 dBm</p> <p>Transmit Freq Error 148 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.493 kHz 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 Center Freq: 406.112500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: &gt;10/10</p> <p>#IF Gain: Low #Atten: 20 dB Radio Device: BTS</p> <p>10 dB/div Ref 36.38 dBm</p> <p>Center 406.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 6.919 kHz Total Power 38.8 dBm</p> <p>Transmit Freq Error 59 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.272 kHz 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 Center Freq: 438.012500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: &gt;10/10</p> <p>#IF Gain: Low #Atten: 20 dB Radio Device: BTS</p> <p>10 dB/div Ref 36.71 dBm</p> <p>Center 438 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.097 kHz Total Power 39.1 dBm</p> <p>Transmit Freq Error 88 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.288 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



Appendix B:Occupied Bandwidth For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNL	4FSK	CH <sub>H1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz    Center Freq: 469.987500 MHz    Radio Std: None    Frequency</p> <p>Trig: Free Run    AvgHeld: &gt;10/10    Radio Device: BTS</p> <p>Ref 36.62 dBm</p> <p>Center 470 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>38.4 dBm</td> </tr> <tr> <td>7.422 kHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table> <p>STATUS DC Coupled</p>	Occupied Bandwidth	Total Power	38.4 dBm	7.422 kHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-26.00 dB
Occupied Bandwidth	Total Power	38.4 dBm													
7.422 kHz															
Transmit Freq Error	OBW Power	99.00 %													
x dB Bandwidth	x dB	-26.00 dB													



Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 19 dB Ref 31.0 dBm</p> <p>Center 136 MHz Span 120 kHz</p> <p>Total Power Ref 25.93 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>Peak 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>25.56</td> <td>(-1.91)</td> <td>0.0</td> <td>25.99</td> <td>(-1.48)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-50.09</td> <td>(-6.12)</td> <td>-12.50 k</td> <td>-50.19</td> <td>(-6.58)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-46.64</td> <td>(-26.64)</td> <td>-16.80 k</td> <td>-46.80</td> <td>(-26.80)</td> <td>16.90 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.56	(-1.91)	0.0	25.99	(-1.48)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-50.09	(-6.12)	-12.50 k	-50.19	(-6.58)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.64	(-26.64)	-16.80 k	-46.80	(-26.80)	16.90 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	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	25.56	(-1.91)	0.0	25.99	(-1.48)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-50.09	(-6.12)	-12.50 k	-50.19	(-6.58)	12.45 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-46.64	(-26.64)	-16.80 k	-46.80	(-26.80)	16.90 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	-	(-)	-	-	(-)	-																																																										
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS</p> <p>Ref Offset 19 dB Ref 31.0 dBm</p> <p>Center 136 MHz Span 120 kHz</p> <p>Total Power Ref 29.60 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>Peak 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>15.64</td> <td>(-11.83)</td> <td>-50.00</td> <td>17.66</td> <td>(9.80)</td> <td>750.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-46.15</td> <td>(-2.55)</td> <td>-12.45 k</td> <td>-47.92</td> <td>(5.04)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-46.95</td> <td>(-26.95)</td> <td>-14.30 k</td> <td>-44.93</td> <td>(-24.93)</td> <td>13.35 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	15.64	(-11.83)	-50.00	17.66	(9.80)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.15	(-2.55)	-12.45 k	-47.92	(5.04)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.95	(-26.95)	-14.30 k	-44.93	(-24.93)	13.35 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	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	15.64	(-11.83)	-50.00	17.66	(9.80)	750.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-46.15	(-2.55)	-12.45 k	-47.92	(5.04)	12.35 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-46.95	(-26.95)	-14.30 k	-44.93	(-24.93)	13.35 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	-	(-)	-	-	(-)	-																																																										
TX-DNH	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 19 dB Ref 32.0 dBm</p> <p>Center 155 MHz Span 120 kHz</p> <p>Total Power Ref 26.09 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>Peak 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>25.70</td> <td>(-1.96)</td> <td>0.0</td> <td>26.16</td> <td>(-1.50)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-47.07</td> <td>(-3.28)</td> <td>-12.50 k</td> <td>-46.27</td> <td>(-6.85)</td> <td>11.90 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-48.18</td> <td>(-28.18)</td> <td>-13.90 k</td> <td>-47.70</td> <td>(-27.70)</td> <td>14.00 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.70	(-1.96)	0.0	26.16	(-1.50)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-47.07	(-3.28)	-12.50 k	-46.27	(-6.85)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-48.18	(-28.18)	-13.90 k	-47.70	(-27.70)	14.00 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	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	25.70	(-1.96)	0.0	26.16	(-1.50)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-47.07	(-3.28)	-12.50 k	-46.27	(-6.85)	11.90 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-48.18	(-28.18)	-13.90 k	-47.70	(-27.70)	14.00 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	-	(-)	-	-	(-)	-																																																										



Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNH	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.012500 MHz    Center Freq: 155.012500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg: 100.00% of 10</p> <p>Ref Offset 19 dB    Ref 32.0 dBm</p> <p>Center 155 MHz    Span 120 kHz</p> <p>Total Power Ref 29.29 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>17.36</td> <td>(-10.29)</td> <td>-1.050 k</td> <td>19.24</td> <td>(-8.42) 800.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.05</td> <td>(-3.81)</td> <td>-12.15 k</td> <td>-44.17</td> <td>(-1.84) 12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-47.01</td> <td>(-27.01)</td> <td>-16.05 k</td> <td>-46.24</td> <td>(-26.24) 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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	17.36	(-10.29)	-1.050 k	19.24	(-8.42) 800.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.05	(-3.81)	-12.15 k	-44.17	(-1.84) 12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.01	(-27.01)	-16.05 k	-46.24	(-26.24) 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	—	(—)	—	—	(—) —
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	17.36	(-10.29)	-1.050 k	19.24	(-8.42) 800.0																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-45.05	(-3.81)	-12.15 k	-44.17	(-1.84) 12.30 k																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-47.01	(-27.01)	-16.05 k	-46.24	(-26.24) 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	—	(—)	—	—	(—) —																																																				
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.987500 MHz    Center Freq: 173.987500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg: 100.00% of 10</p> <p>Ref Offset 19 dB    Ref 32.0 dBm</p> <p>Center 174 MHz    Span 120 kHz</p> <p>Total Power Ref 26.09 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>24.28</td> <td>(-3.32)</td> <td>0.0</td> <td>26.12</td> <td>(-1.48) 50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-47.62</td> <td>(8.77)</td> <td>-14.90 k</td> <td>-47.69</td> <td>(8.21) 14.90 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-47.87</td> <td>(-27.87)</td> <td>-14.25 k</td> <td>-47.97</td> <td>(-27.97) 13.10 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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.28	(-3.32)	0.0	26.12	(-1.48) 50.00	5.625 kHz	12.50 kHz	100.0 Hz	-47.62	(8.77)	-14.90 k	-47.69	(8.21) 14.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.87	(-27.87)	-14.25 k	-47.97	(-27.97) 13.10 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	—	(—)	—	—	(—) —
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	24.28	(-3.32)	0.0	26.12	(-1.48) 50.00																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-47.62	(8.77)	-14.90 k	-47.69	(8.21) 14.90 k																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-47.87	(-27.87)	-14.25 k	-47.97	(-27.97) 13.10 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	—	(—)	—	—	(—) —																																																				
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.987500 MHz    Center Freq: 173.987500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg: 100.00% of 10</p> <p>Ref Offset 19 dB    Ref 32.0 dBm</p> <p>Center 174 MHz    Span 120 kHz</p> <p>Total Power Ref 29.42 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>17.52</td> <td>(-10.08)</td> <td>-200.0</td> <td>18.65</td> <td>(-8.95) 950.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-47.94</td> <td>(-5.19)</td> <td>-12.35 k</td> <td>-46.44</td> <td>(-2.97) 12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-46.67</td> <td>(-26.67)</td> <td>-12.50 k</td> <td>-43.29</td> <td>(-23.29) 15.55 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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	17.52	(-10.08)	-200.0	18.65	(-8.95) 950.0	5.625 kHz	12.50 kHz	100.0 Hz	-47.94	(-5.19)	-12.35 k	-46.44	(-2.97) 12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.67	(-26.67)	-12.50 k	-43.29	(-23.29) 15.55 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	—	(—)	—	—	(—) —
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	17.52	(-10.08)	-200.0	18.65	(-8.95) 950.0																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-47.94	(-5.19)	-12.35 k	-46.44	(-2.97) 12.45 k																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-46.67	(-26.67)	-12.50 k	-43.29	(-23.29) 15.55 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	—	(—)	—	—	(—) —																																																				



Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB</p> <p>Ref Offset 19 dB Ref 20.0 dBm</p> <p>Center 136 MHz Span 120 kHz</p> <p>Total Power Ref 13.79 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>Peak 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>13.42</td> <td>(2.08)</td> <td>0.0</td> <td>13.85</td> <td>(-1.66)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-59.77</td> <td>(-4.56)</td> <td>-12.40 k</td> <td>-63.95</td> <td>(-8.02)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-59.49</td> <td>(-39.49)</td> <td>-14.45 k</td> <td>-59.71</td> <td>(-39.71)</td> <td>15.70 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	13.42	(2.08)	0.0	13.85	(-1.66)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-59.77	(-4.56)	-12.40 k	-63.95	(-8.02)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-59.49	(-39.49)	-14.45 k	-59.71	(-39.71)	15.70 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	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	13.42	(2.08)	0.0	13.85	(-1.66)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-59.77	(-4.56)	-12.40 k	-63.95	(-8.02)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-59.49	(-39.49)	-14.45 k	-59.71	(-39.71)	15.70 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	-	(-)	-	-	(-)	-																																																										
TX-DNL	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset 19 dB Ref 20.0 dBm</p> <p>Center 136 MHz Span 120 kHz</p> <p>Total Power Ref 16.86 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>Peak 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>3.874</td> <td>(-11.63)</td> <td>-850.0</td> <td>4.538</td> <td>(-10.97)</td> <td>1.750 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-61.85</td> <td>(5.42)</td> <td>-12.50 k</td> <td>-59.46</td> <td>(3.33)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-58.80</td> <td>(-38.80)</td> <td>-13.90 k</td> <td>-58.41</td> <td>(-38.41)</td> <td>14.20 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	3.874	(-11.63)	-850.0	4.538	(-10.97)	1.750 k	5.625 kHz	12.50 kHz	100.0 Hz	-61.85	(5.42)	-12.50 k	-59.46	(3.33)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-58.80	(-38.80)	-13.90 k	-58.41	(-38.41)	14.20 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	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	3.874	(-11.63)	-850.0	4.538	(-10.97)	1.750 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-61.85	(5.42)	-12.50 k	-59.46	(3.33)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-58.80	(-38.80)	-13.90 k	-58.41	(-38.41)	14.20 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	-	(-)	-	-	(-)	-																																																										
TX-DNL	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB</p> <p>Ref Offset 19 dB Ref 19.0 dBm</p> <p>Center 155 MHz Span 120 kHz</p> <p>Total Power Ref 13.42 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>Peak 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>13.04</td> <td>(2.12)</td> <td>0.0</td> <td>13.49</td> <td>(-1.68)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-59.94</td> <td>(9.12)</td> <td>-11.75 k</td> <td>-59.92</td> <td>(-5.10)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-53.49</td> <td>(-33.49)</td> <td>-30.50 k</td> <td>-51.59</td> <td>(-31.59)</td> <td>30.60 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	13.04	(2.12)	0.0	13.49	(-1.68)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-59.94	(9.12)	-11.75 k	-59.92	(-5.10)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-53.49	(-33.49)	-30.50 k	-51.59	(-31.59)	30.60 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	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	13.04	(2.12)	0.0	13.49	(-1.68)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-59.94	(9.12)	-11.75 k	-59.92	(-5.10)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-53.49	(-33.49)	-30.50 k	-51.59	(-31.59)	30.60 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	-	(-)	-	-	(-)	-																																																										





Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNL	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset 19 dB Ref 19.0 dBm</p> <p>Center 155 MHz Span 120 kHz</p> <p>Total Power Ref 16.70 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>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>4.056</td> <td>(-11.11)</td> <td>-150.0</td> <td>6.589</td> <td>(-8.57)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-60.28</td> <td>(-4.01)</td> <td>-12.50 k</td> <td>-58.70</td> <td>(-2.42)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-57.37</td> <td>(-37.37)</td> <td>-12.90 k</td> <td>-58.31</td> <td>(-38.31)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	4.056	(-11.11)	-150.0	6.589	(-8.57)	5.625 kHz	12.50 kHz	100.0 Hz	-60.28	(-4.01)	-12.50 k	-58.70	(-2.42)	12.50 kHz	60.00 kHz	100.0 Hz	-57.37	(-37.37)	-12.90 k	-58.31	(-38.31)	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	—	(—)	—	—	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	4.056	(-11.11)	-150.0	6.589	(-8.57)																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-60.28	(-4.01)	-12.50 k	-58.70	(-2.42)																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-57.37	(-37.37)	-12.90 k	-58.31	(-38.31)																																																				
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	—	(—)	—	—	(—)																																																				
TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset 19 dB Ref 19.0 dBm</p> <p>Center 174 MHz Span 120 kHz</p> <p>Total Power Ref 13.73 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>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>11.96</td> <td>(3.40)</td> <td>0.0</td> <td>13.79</td> <td>(-1.58)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-62.70</td> <td>(6.89)</td> <td>-12.45 k</td> <td>-58.85</td> <td>(7.00)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-58.90</td> <td>(-38.90)</td> <td>-30.40 k</td> <td>-60.45</td> <td>(-40.45)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	11.96	(3.40)	0.0	13.79	(-1.58)	5.625 kHz	12.50 kHz	100.0 Hz	-62.70	(6.89)	-12.45 k	-58.85	(7.00)	12.50 kHz	60.00 kHz	100.0 Hz	-58.90	(-38.90)	-30.40 k	-60.45	(-40.45)	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	—	(—)	—	—	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	11.96	(3.40)	0.0	13.79	(-1.58)																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-62.70	(6.89)	-12.45 k	-58.85	(7.00)																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-58.90	(-38.90)	-30.40 k	-60.45	(-40.45)																																																				
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	—	(—)	—	—	(—)																																																				
TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset 19 dB Ref 19.0 dBm</p> <p>Center 174 MHz Span 120 kHz</p> <p>Total Power Ref 17.26 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>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>5.095</td> <td>(-10.27)</td> <td>-1.250 k</td> <td>8.231</td> <td>(-7.14)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-57.38</td> <td>(-4.58)</td> <td>-12.05 k</td> <td>-59.72</td> <td>(-5.11)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-58.23</td> <td>(-38.23)</td> <td>-15.40 k</td> <td>-56.99</td> <td>(-36.99)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	5.095	(-10.27)	-1.250 k	8.231	(-7.14)	5.625 kHz	12.50 kHz	100.0 Hz	-57.38	(-4.58)	-12.05 k	-59.72	(-5.11)	12.50 kHz	60.00 kHz	100.0 Hz	-58.23	(-38.23)	-15.40 k	-56.99	(-36.99)	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	—	(—)	—	—	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	5.095	(-10.27)	-1.250 k	8.231	(-7.14)																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-57.38	(-4.58)	-12.05 k	-59.72	(-5.11)																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-58.23	(-38.23)	-15.40 k	-56.99	(-36.99)																																																				
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 For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNH	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 37 dB Ref 37.0 dBm</p> <p>Total Power Ref 30.82 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>30.89</td> <td>(-1.71)</td> <td>0.0</td> <td>30.89</td> <td>(-1.71)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.16</td> <td>(-6.78)</td> <td>-12.30 k</td> <td>-42.75</td> <td>(-8.64)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.33</td> <td>(-23.33)</td> <td>-22.80 k</td> <td>-41.65</td> <td>(-21.65)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.89	(-1.71)	0.0	30.89	(-1.71)	5.625 kHz	12.50 kHz	100.0 Hz	-44.16	(-6.78)	-12.30 k	-42.75	(-8.64)	12.50 kHz	60.00 kHz	100.0 Hz	-43.33	(-23.33)	-22.80 k	-41.65	(-21.65)	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	—	(—)	—	—	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	30.89	(-1.71)	0.0	30.89	(-1.71)																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-44.16	(-6.78)	-12.30 k	-42.75	(-8.64)																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-43.33	(-23.33)	-22.80 k	-41.65	(-21.65)																																																				
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	—	(—)	—	—	(—)																																																				
TX-DNH	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 37 dB Ref 37.0 dBm</p> <p>Total Power Ref 33.83 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>21.83</td> <td>(-10.77)</td> <td>-350.0</td> <td>25.19</td> <td>(7.41)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.66</td> <td>(2.83)</td> <td>-12.50 k</td> <td>-40.82</td> <td>(-1.99)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.00</td> <td>(-20.00)</td> <td>-13.80 k</td> <td>-39.87</td> <td>(-19.87)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.83	(-10.77)	-350.0	25.19	(7.41)	5.625 kHz	12.50 kHz	100.0 Hz	-41.66	(2.83)	-12.50 k	-40.82	(-1.99)	12.50 kHz	60.00 kHz	100.0 Hz	-40.00	(-20.00)	-13.80 k	-39.87	(-19.87)	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	—	(—)	—	—	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	21.83	(-10.77)	-350.0	25.19	(7.41)																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-41.66	(2.83)	-12.50 k	-40.82	(-1.99)																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-40.00	(-20.00)	-13.80 k	-39.87	(-19.87)																																																				
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	—	(—)	—	—	(—)																																																				
TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz</p> <p>Ref Offset 37 dB Ref 37.0 dBm</p> <p>Total Power Ref 31.26 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>31.09</td> <td>(-1.66)</td> <td>0.0</td> <td>31.09</td> <td>(-1.66)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.32</td> <td>(-7.54)</td> <td>-12.10 k</td> <td>-44.86</td> <td>(-8.35)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.82</td> <td>(-21.82)</td> <td>-12.90 k</td> <td>-39.63</td> <td>(-19.63)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.09	(-1.66)	0.0	31.09	(-1.66)	5.625 kHz	12.50 kHz	100.0 Hz	-43.32	(-7.54)	-12.10 k	-44.86	(-8.35)	12.50 kHz	60.00 kHz	100.0 Hz	-41.82	(-21.82)	-12.90 k	-39.63	(-19.63)	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	—	(—)	—	—	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	31.09	(-1.66)	0.0	31.09	(-1.66)																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-43.32	(-7.54)	-12.10 k	-44.86	(-8.35)																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-41.82	(-21.82)	-12.90 k	-39.63	(-19.63)																																																				
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 For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None          Trig: Free Run Avg: 100.00% of 10          #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 37 dB Ref: 37.0 dBm</p> <p>Center 406 MHz Span 120 kHz</p> <p>Total Power Ref 33.87 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>22.55</td> <td>(-10.21)</td> <td>-200.0</td> <td>25.34</td> <td>(-7.41) 500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.63</td> <td>(-2.94)</td> <td>-12.50 k</td> <td>-42.23</td> <td>(-3.91) 12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.10</td> <td>(-20.10)</td> <td>-14.95 k</td> <td>-39.25</td> <td>(-19.25) 12.95 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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.55	(-10.21)	-200.0	25.34	(-7.41) 500.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.63	(-2.94)	-12.50 k	-42.23	(-3.91) 12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.10	(-20.10)	-14.95 k	-39.25	(-19.25) 12.95 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	—	(—)	—	(—)	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	22.55	(-10.21)	-200.0	25.34	(-7.41) 500.0																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-41.63	(-2.94)	-12.50 k	-42.23	(-3.91) 12.45 k																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-40.10	(-20.10)	-14.95 k	-39.25	(-19.25) 12.95 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	—	(—)	—	(—)	(—)																																																				
TX-DNH	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          Trig: Free Run Avg: 100.00% of 10          #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 37 dB Ref: 37.0 dBm</p> <p>Center 406.1 MHz Span 120 kHz</p> <p>Total Power Ref 31.06 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>31.00</td> <td>(-1.69)</td> <td>0.0</td> <td>31.00</td> <td>(-1.69) 0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.20</td> <td>(4.46)</td> <td>-12.50 k</td> <td>-45.91</td> <td>(7.16) 12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.97</td> <td>(-22.97)</td> <td>-12.85 k</td> <td>-41.83</td> <td>(-21.83) 14.30 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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.00	(-1.69)	0.0	31.00	(-1.69) 0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.20	(4.46)	-12.50 k	-45.91	(7.16) 12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.97	(-22.97)	-12.85 k	-41.83	(-21.83) 14.30 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	—	(—)	—	(—)	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	31.00	(-1.69)	0.0	31.00	(-1.69) 0.0																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-43.20	(4.46)	-12.50 k	-45.91	(7.16) 12.50 k																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-42.97	(-22.97)	-12.85 k	-41.83	(-21.83) 14.30 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	—	(—)	—	(—)	(—)																																																				
TX-DNH	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          Trig: Free Run Avg: 100.00% of 10          #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 37 dB Ref: 37.0 dBm</p> <p>Center 406.1 MHz Span 120 kHz</p> <p>Total Power Ref 34.00 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>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>24.33</td> <td>(-8.36)</td> <td>0.0</td> <td>24.48</td> <td>(-8.22) 50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.08</td> <td>(-5.15)</td> <td>-12.25 k</td> <td>-44.82</td> <td>(-6.44) 12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.94</td> <td>(-20.94)</td> <td>-14.50 k</td> <td>-38.43</td> <td>(-18.43) 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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.33	(-8.36)	0.0	24.48	(-8.22) 50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.08	(-5.15)	-12.25 k	-44.82	(-6.44) 12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.94	(-20.94)	-14.50 k	-38.43	(-18.43) 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	—	(—)	—	(—)	(—)
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	24.33	(-8.36)	0.0	24.48	(-8.22) 50.00																																																				
5.625 kHz	12.50 kHz	100.0 Hz	-42.08	(-5.15)	-12.25 k	-44.82	(-6.44) 12.45 k																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-40.94	(-20.94)	-14.50 k	-38.43	(-18.43) 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	—	(—)	—	(—)	(—)																																																				



Appendix C:Emission Mask For UHF Band

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 Center Freq: 438.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 38 dB Ref 34.0 dBm</p> <p>Center 438 MHz Span 120 kHz</p> <p>Total Power Ref 28.70 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>Peak 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>28.69</td> <td>(-1.02)</td> <td>0.0</td> <td>28.69</td> <td>(-1.02)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.79</td> <td>(-3.79)</td> <td>-12.40 k</td> <td>-43.61</td> <td>(-5.15)</td> <td>12.05 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.58</td> <td>(-23.58)</td> <td>-18.50 k</td> <td>-41.65</td> <td>(-21.65)</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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.69	(-1.02)	0.0	28.69	(-1.02)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.79	(-3.79)	-12.40 k	-43.61	(-5.15)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.58	(-23.58)	-18.50 k	-41.65	(-21.65)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	28.69	(-1.02)	0.0	28.69	(-1.02)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-44.79	(-3.79)	-12.40 k	-43.61	(-5.15)	12.05 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-43.58	(-23.58)	-18.50 k	-41.65	(-21.65)	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	—	(—)	—	—	(—)	—																																																										
TX-DNH	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 #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS</p> <p>Ref Offset 38 dB Ref 34.0 dBm</p> <p>Center 438 MHz Span 120 kHz</p> <p>Total Power Ref 32.23 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>Peak 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>19.38</td> <td>(-10.33)</td> <td>-100.0</td> <td>22.38</td> <td>(7.33)</td> <td>450.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.89</td> <td>(1.16)</td> <td>-12.50 k</td> <td>-43.53</td> <td>(2.89)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.85</td> <td>(-22.85)</td> <td>-14.85 k</td> <td>-40.70</td> <td>(-20.70)</td> <td>13.35 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	19.38	(-10.33)	-100.0	22.38	(7.33)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.89	(1.16)	-12.50 k	-43.53	(2.89)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.85	(-22.85)	-14.85 k	-40.70	(-20.70)	13.35 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	19.38	(-10.33)	-100.0	22.38	(7.33)	450.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-42.89	(1.16)	-12.50 k	-43.53	(2.89)	12.35 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-42.85	(-22.85)	-14.85 k	-40.70	(-20.70)	13.35 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH <sub>H1</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>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 37 dB Ref 36.0 dBm</p> <p>Center 470 MHz Span 120 kHz</p> <p>Total Power Ref 29.71 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>Peak 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>29.77</td> <td>(-2.06)</td> <td>-250.0</td> <td>-14.74</td> <td>(-46.58)</td> <td>200.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.49</td> <td>(-5.70)</td> <td>-12.25 k</td> <td>-41.27</td> <td>(-1.67)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.70</td> <td>(-23.70)</td> <td>-14.75 k</td> <td>-43.46</td> <td>(-23.46)</td> <td>13.20 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.77	(-2.06)	-250.0	-14.74	(-46.58)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.49	(-5.70)	-12.25 k	-41.27	(-1.67)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.70	(-23.70)	-14.75 k	-43.46	(-23.46)	13.20 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	29.77	(-2.06)	-250.0	-14.74	(-46.58)	200.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-43.49	(-5.70)	-12.25 k	-41.27	(-1.67)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-43.70	(-23.70)	-14.75 k	-43.46	(-23.46)	13.20 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 For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>H1</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>Trig: Free Run    Avg: 100.00% of 10</p> <p>#Att: 40 dB    Radio Device: BTS</p> <p>Ref Offset 37 dB Ref 36.0 dBm</p> <p>Center 470 MHz    Span 120 kHz</p> <p>Total Power Ref 33.36 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>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>21.28</td> <td>(-10.56)</td> <td>-350.0</td> <td>23.14</td> <td>(-8.70)</td> <td>450.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.27</td> <td>(-3.40)</td> <td>-12.40 k</td> <td>-44.67</td> <td>(-5.79)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.74</td> <td>(-21.74)</td> <td>-13.05 k</td> <td>-40.49</td> <td>(-20.49)</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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.28	(-10.56)	-350.0	23.14	(-8.70)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.27	(-3.40)	-12.40 k	-44.67	(-5.79)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.74	(-21.74)	-13.05 k	-40.49	(-20.49)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	21.28	(-10.56)	-350.0	23.14	(-8.70)	450.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-42.27	(-3.40)	-12.40 k	-44.67	(-5.79)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-41.74	(-21.74)	-13.05 k	-40.49	(-20.49)	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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH <sub>L1</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>Trig: Free Run    Avg: 100.00% of 10</p> <p>#Att: 40 dB    Radio Device: BTS</p> <p>Ref Offset 37 dB Ref 35.0 dBm</p> <p>Center 400 MHz    Span 120 kHz</p> <p>Total Power Ref 29.65 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>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>29.84</td> <td>(-1.60)</td> <td>0.0</td> <td>29.84</td> <td>(-1.60)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-48.73</td> <td>(8.73)</td> <td>-12.50 k</td> <td>-46.12</td> <td>(8.86)</td> <td>12.15 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.20</td> <td>(-21.20)</td> <td>-13.20 k</td> <td>-42.09</td> <td>(-22.09)</td> <td>13.20 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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.84	(-1.60)	0.0	29.84	(-1.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.73	(8.73)	-12.50 k	-46.12	(8.86)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.20	(-21.20)	-13.20 k	-42.09	(-22.09)	13.20 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	29.84	(-1.60)	0.0	29.84	(-1.60)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-48.73	(8.73)	-12.50 k	-46.12	(8.86)	12.15 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-41.20	(-21.20)	-13.20 k	-42.09	(-22.09)	13.20 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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH <sub>L1</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>Trig: Free Run    Avg: 100.00% of 10</p> <p>#Att: 40 dB    Radio Device: BTS</p> <p>Ref Offset 37 dB Ref 35.0 dBm</p> <p>Center 400 MHz    Span 120 kHz</p> <p>Total Power Ref 33.14 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>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>19.56</td> <td>(-11.88)</td> <td>-150.0</td> <td>23.34</td> <td>(-8.10)</td> <td>650.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.99</td> <td>(-2.99)</td> <td>-12.50 k</td> <td>-45.24</td> <td>(-5.24)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.67</td> <td>(-21.67)</td> <td>-13.80 k</td> <td>-41.68</td> <td>(-21.68)</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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	19.56	(-11.88)	-150.0	23.34	(-8.10)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.99	(-2.99)	-12.50 k	-45.24	(-5.24)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.67	(-21.67)	-13.80 k	-41.68	(-21.68)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	19.56	(-11.88)	-150.0	23.34	(-8.10)	650.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-42.99	(-2.99)	-12.50 k	-45.24	(-5.24)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-41.67	(-21.67)	-13.80 k	-41.68	(-21.68)	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	—	(—)	—	—	(—)	—																																																										