

**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 _L	35.61	3.64	4.00	-9.0	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.52	3.56	4.00	-10.9	±20	PASS
TX-DNH	4FSK	CH _{M2}	35.61	3.64	4.00	-9.0	±20	PASS
TX-DNH	4FSK	CH _{M3}	35.48	3.53	4.00	-11.7	±20	PASS
TX-DNH	4FSK	CH _H	35.73	3.74	4.00	-6.5	±20	PASS
TX-DNL	4FSK	CH _L	31.43	1.39	1.50	-7.3	±20	PASS
TX-DNL	4FSK	CH _{M1}	31.62	1.45	1.50	-3.2	±20	PASS
TX-DNL	4FSK	CH _{M2}	31.76	1.50	1.50	0.0	±20	PASS
TX-DNL	4FSK	CH _{M3}	31.54	1.43	1.50	-5.0	±20	PASS
TX-DNL	4FSK	CH _H	31.43	1.39	1.50	-7.3	±20	PASS
TX-ANH	FM	CH _L	35.76	3.77	4.00	-5.8	±20	PASS
TX-ANH	FM	CH _{M1}	35.85	3.85	4.00	-3.9	±20	PASS
TX-ANH	FM	CH _{M2}	35.76	3.77	4.00	-5.8	±20	PASS
TX-ANH	FM	CH _{M3}	35.57	3.61	4.00	-9.9	±20	PASS
TX-ANH	FM	CH _H	35.63	3.66	4.00	-8.6	±20	PASS
TX-ANL	FM	CH _L	31.52	1.42	1.50	-5.4	±20	PASS
TX-ANL	FM	CH _{M1}	31.46	1.40	1.50	-6.7	±20	PASS
TX-ANL	FM	CH _{M2}	31.67	1.47	1.50	-2.1	±20	PASS
TX-ANL	FM	CH _{M3}	31.51	1.42	1.50	-5.6	±20	PASS
TX-ANL	FM	CH _H	31.60	1.45	1.50	-3.6	±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 _L	7.907	9.976	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.842	9.888	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.858	10.080	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.834	10.030	≤11.25	PASS
TX-DNH	4FSK	CH _H	8.126	9.930	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.981	9.721	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.903	9.909	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.906	10.200	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.974	9.806	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.917	9.948	≤11.25	PASS
TX-ANH	FM	CH _L	5.163	5.241	≤11.25	PASS
TX-ANH	FM	CH _{M1}	5.165	5.241	≤11.25	PASS
TX-ANH	FM	CH _{M2}	5.166	5.242	≤11.25	PASS
TX-ANH	FM	CH _{M3}	5.181	5.237	≤11.25	PASS
TX-ANH	FM	CH _H	5.167	7.652	≤11.25	PASS
TX-ANL	FM	CH _L	5.165	5.241	≤11.25	PASS
TX-ANL	FM	CH _{M1}	5.162	5.242	≤11.25	PASS
TX-ANL	FM	CH _{M2}	5.167	5.242	≤11.25	PASS
TX-ANL	FM	CH _{M3}	5.142	5.237	≤11.25	PASS
TX-ANL	FM	CH _H	5.175	7.656	≤11.25	PASS



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 24 dB</p> <p>10 dB/div Ref 40.42 dBm 30.4 20.4 10.4 0.420 -9.6 -19.6 -29.6 -39.6 -49.6</p> <p>Center 400 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.907 kHz Total Power 43.2 dBm Transmit Freq Error 52 Hz OBW Power 99.00 % x dB Bandwidth 9.976 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 24 dB</p> <p>10 dB/div Ref 40.53 dBm 30.5 20.5 10.5 0.530 -9.5 -19.5 -29.5 -39.5 -49.5</p> <p>Center 406 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.842 kHz Total Power 43.6 dBm Transmit Freq Error -54 Hz OBW Power 99.00 % x dB Bandwidth 9.888 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 24 dB</p> <p>10 dB/div Ref 40.49 dBm 30.5 20.5 10.5 0.490 -9.5 -19.5 -29.5 -39.5 -49.5</p> <p>Center 406.1 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.858 kHz Total Power 43.3 dBm Transmit Freq Error -15 Hz OBW Power 99.00 % x dB Bandwidth 10.08 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	<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: >10/10 Radio Device: BTS</p> <p>#IF Gain: Low #Atten: 24 dB</p> <p>10 dB/div Ref 40.22 dBm</p> <p>Center 438 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 43.4 dBm</p> <p>7.834 kHz</p> <p>Transmit Freq Error -27 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.03 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10 Radio Device: BTS</p> <p>#IF Gain: Low #Atten: 24 dB</p> <p>10 dB/div Ref 40.20 dBm</p> <p>Center 470 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 43.4 dBm</p> <p>8.126 kHz</p> <p>Transmit Freq Error -67 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.930 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNL	4FSK	CH _L	<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 Avg/Hold: >10/10 Radio Device: BTS</p> <p>#IF Gain: Low #Atten: 18 dB</p> <p>10 dB/div Ref 34.60 dBm</p> <p>Center 400 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 37.5 dBm</p> <p>7.981 kHz</p> <p>Transmit Freq Error 19 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.721 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	<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: >10/10 Radio Device: BTS</p> <p>Ref 34.90 dBm</p> <p>Center 406 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 38.0 dBm</p> <p>7.903 kHz</p> <p>Transmit Freq Error -116 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.909 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNL	4FSK	CH _{M2}	<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: >10/10 Radio Device: BTS</p> <p>Ref 34.94 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 Total Power 37.9 dBm</p> <p>7.906 kHz</p> <p>Transmit Freq Error -2 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.20 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNL	4FSK	CH _{M3}	<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: >10/10 Radio Device: BTS</p> <p>Ref 35.36 dBm</p> <p>Center 438 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 38.3 dBm</p> <p>7.974 kHz</p> <p>Transmit Freq Error -18 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.806 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	
TX-ANH	FM	CH _L	
TX-ANH	FM	CH _{M1}	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	<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: 10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.53 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 Total Power 36.7 dBm</p> <p>5.166 kHz</p> <p>Transmit Freq Error 71 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 5.242 kHz x dB -26.00 dB</p> <p>Frequency: 406.112500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-ANH	FM	CH _{M3}	<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: 10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.40 dBm</p> <p>Center 438 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 36.6 dBm</p> <p>5.144 kHz</p> <p>Transmit Freq Error 87 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 5.237 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-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IFGain:Low #Atten: 12 dB Radio Device: BTS</p> <p>10 dB/div Ref 39.42 dBm</p> <p>Center 470 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 35.4 dBm</p> <p>5.167 kHz</p> <p>Transmit Freq Error 63 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 7.652 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 B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<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 AvgHld: >10/10</p> <p>#IF Gain: Low #Atten: 18 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.47 dBm</p> <p>Center 400 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 5.165 kHz Total Power 30.6 dBm</p> <p>Transmit Freq Error 76 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 5.241 kHz 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>
TX-ANL	FM	CH _{M1}	<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 AvgHld: >10/10</p> <p>#IF Gain: Low #Atten: 18 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.64 dBm</p> <p>Center 406 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 5.162 kHz Total Power 31.2 dBm</p> <p>Transmit Freq Error 73 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 5.242 kHz x dB -26.00 dB</p> <p>Frequency: 405.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _{M2}	<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 AvgHld: >10/10</p> <p>#IF Gain: Low #Atten: 18 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.74 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 5.167 kHz Total Power 30.9 dBm</p> <p>Transmit Freq Error 75 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 5.242 kHz x dB -26.00 dB</p> <p>Frequency: 406.112500 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-ANL	FM	CH _{M3}	<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: 10/10</p> <p>#IF Gain: Low #Atten: 18 dB Radio Device: BTS</p> <p>10 dB/div Ref 35.26 dBm</p> <p>Center 438 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 31.3 dBm</p> <p>5.142 kHz</p> <p>Transmit Freq Error 89 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 5.237 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> <p>STATUS: DC Coupled</p>
TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IF Gain: Low #Atten: 8 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.08 dBm</p> <p>Center 470 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 30.2 dBm</p> <p>5.175 kHz</p> <p>Transmit Freq Error 75 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 7.656 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> <p>STATUS: DC Coupled</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNH	4FSK	CH _L	<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 #Att: 40 dB Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 42.0 dBm</p> <p>Total Power Ref 37.31 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>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>36.51</td> <td>(-1.04)</td> <td>0.0</td> <td>36.67</td> <td>(-0.88)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.51</td> <td>(-5.62)</td> <td>-12.50 k</td> <td>-39.80</td> <td>(-5.91)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-32.21</td> <td>(-12.21)</td> <td>-24.95 k</td> <td>-31.85</td> <td>(-11.85)</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	36.51	(-1.04)	0.0	36.67	(-0.88)	5.625 kHz	12.50 kHz	100.0 Hz	-39.51	(-5.62)	-12.50 k	-39.80	(-5.91)	12.50 kHz	60.00 kHz	100.0 Hz	-32.21	(-12.21)	-24.95 k	-31.85	(-11.85)	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	36.51	(-1.04)	0.0	36.67	(-0.88)																																																				
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)																																																				
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TX-DNH	4FSK	CH _L	<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 Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 42.0 dBm</p> <p>Total Power Ref 40.06 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>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>26.66</td> <td>(-10.88)</td> <td>-50.00</td> <td>29.02</td> <td>(-8.52)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.34</td> <td>(2.81)</td> <td>-12.45 k</td> <td>-37.74</td> <td>(-3.35)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.04</td> <td>(-14.04)</td> <td>-25.35 k</td> <td>-33.66</td> <td>(-13.66)</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	26.66	(-10.88)	-50.00	29.02	(-8.52)	5.625 kHz	12.50 kHz	100.0 Hz	-36.34	(2.81)	-12.45 k	-37.74	(-3.35)	12.50 kHz	60.00 kHz	100.0 Hz	-34.04	(-14.04)	-25.35 k	-33.66	(-13.66)	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	26.66	(-10.88)	-50.00	29.02	(-8.52)																																																				
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TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None</p> <p>Trig: Free Run #Att: 40 dB Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 42.0 dBm</p> <p>Total Power Ref 37.14 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>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>33.48</td> <td>(-4.40)</td> <td>0.0</td> <td>36.97</td> <td>(-0.92)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.95</td> <td>(-8.67)</td> <td>-12.05 k</td> <td>-40.96</td> <td>(-8.14)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.73</td> <td>(-15.73)</td> <td>-12.85 k</td> <td>-35.76</td> <td>(-15.76)</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	33.48	(-4.40)	0.0	36.97	(-0.92)	5.625 kHz	12.50 kHz	100.0 Hz	-38.95	(-8.67)	-12.05 k	-40.96	(-8.14)	12.50 kHz	60.00 kHz	100.0 Hz	-35.73	(-15.73)	-12.85 k	-35.76	(-15.76)	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 _{M1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 28 dB Ref 42.0 dBm Total Power Ref 40.55 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>27.98</td> <td>(-9.91)</td> <td>-50.00</td> <td>27.69</td> <td>(-10.20)</td> <td>700.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-31.28</td> <td>(-2.45)</td> <td>-11.85 k</td> <td>-33.51</td> <td>(-1.05)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.60</td> <td>(-14.60)</td> <td>-13.95 k</td> <td>-33.21</td> <td>(-13.21)</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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.98	(-9.91)	-50.00	27.69	(-10.20)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-31.28	(-2.45)	-11.85 k	-33.51	(-1.05)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.60	(-14.60)	-13.95 k	-33.21	(-13.21)	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	-	(-)	-	-	(-)	-
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TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 28 dB Ref 42.0 dBm Total Power Ref 37.17 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>32.57</td> <td>(-5.27)</td> <td>0.0</td> <td>36.95</td> <td>(-0.89)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-34.97</td> <td>(-3.55)</td> <td>-12.20 k</td> <td>-34.98</td> <td>(-2.84)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.70</td> <td>(-17.70)</td> <td>-17.05 k</td> <td>-37.06</td> <td>(-17.06)</td> <td>17.20 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	32.57	(-5.27)	0.0	36.95	(-0.89)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.97	(-3.55)	-12.20 k	-34.98	(-2.84)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.70	(-17.70)	-17.05 k	-37.06	(-17.06)	17.20 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	-	(-)	-	-	(-)	-
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Appendix C:Emission Mask

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TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 28 dB Ref 42.0 dBm</p> <p>Total Power Ref 36.49 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>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>35.95</td> <td>(-1.62)</td> <td>0.0</td> <td>36.42</td> <td>(-1.15)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.11</td> <td>(-7.16)</td> <td>-12.10 k</td> <td>-38.06</td> <td>(-6.37)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.52</td> <td>(-17.52)</td> <td>-14.75 k</td> <td>-36.87</td> <td>(-16.87)</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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.95	(-1.62)	0.0	36.42	(-1.15)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.11	(-7.16)	-12.10 k	-38.06	(-6.37)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.52	(-17.52)	-14.75 k	-36.87	(-16.87)	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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TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz</p> <p>Ref Offset 28 dB Ref 42.0 dBm</p> <p>Total Power Ref 37.17 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>29.63</td> <td>(-7.99)</td> <td>0.0</td> <td>36.56</td> <td>(-1.05)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.72</td> <td>(-3.90)</td> <td>-12.50 k</td> <td>-36.33</td> <td>(-2.50)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.16</td> <td>(-14.16)</td> <td>-15.60 k</td> <td>-34.37</td> <td>(-14.37)</td> <td>15.75 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	29.63	(-7.99)	0.0	36.56	(-1.05)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.72	(-3.90)	-12.50 k	-36.33	(-2.50)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.16	(-14.16)	-15.60 k	-34.37	(-14.37)	15.75 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 _H	<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 Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 42.0 dBm</p> <p>Center 470 MHz Span 120 kHz</p> <p>Total Power Ref 40.48 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</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>24.03</td> <td>(-13.59)</td> <td>0.0</td> <td>29.48</td> <td>(-8.13)</td> <td>650.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-32.50</td> <td>(-3.77)</td> <td>-11.80 k</td> <td>-35.43</td> <td>(-3.42)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.78</td> <td>(-13.78)</td> <td>-12.80 k</td> <td>-29.75</td> <td>(-9.75)</td> <td>12.85 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)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.03	(-13.59)	0.0	29.48	(-8.13)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.50	(-3.77)	-11.80 k	-35.43	(-3.42)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.78	(-13.78)	-12.80 k	-29.75	(-9.75)	12.85 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

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Appendix C:Emission Mask

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Appendix C:Emission Mask

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TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Center 470 MHz Span 120 kHz</p> <p>Total Power Ref 31.44 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>22.28</td> <td>(-10.14)</td> <td>0.0</td> <td>31.35</td> <td>(-1.07)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.50</td> <td>(-4.49)</td> <td>-12.50 k</td> <td>-43.19</td> <td>(-7.81)</td> <td>12.00 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.06</td> <td>(-23.06)</td> <td>-15.50 k</td> <td>-42.25</td> <td>(-22.25)</td> <td>15.65 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)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.28	(-10.14)	0.0	31.35	(-1.07)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.50	(-4.49)	-12.50 k	-43.19	(-7.81)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.06	(-23.06)	-15.50 k	-42.25	(-22.25)	15.65 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 _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Center 470 MHz Span 120 kHz</p> <p>Total Power Ref 34.34 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>19.62</td> <td>(-12.60)</td> <td>-1.350 k</td> <td>23.10</td> <td>(-9.32)</td> <td>1.350 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.57</td> <td>(4.28)</td> <td>-12.40 k</td> <td>-39.19</td> <td>(0.18)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.72</td> <td>(-20.72)</td> <td>-14.05 k</td> <td>-40.92</td> <td>(-20.92)</td> <td>18.00 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	19.62	(-12.60)	-1.350 k	23.10	(-9.32)	1.350 k	5.625 kHz	12.50 kHz	100.0 Hz	-42.57	(4.28)	-12.40 k	-39.19	(0.18)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.72	(-20.72)	-14.05 k	-40.92	(-20.92)	18.00 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-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 38 dB Ref 41.0 dBm</p> <p>Total Power Ref 35.90 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>35.83</td> <td>(-0.99)</td> <td>0.0</td> <td>35.83</td> <td>(-0.99)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.10</td> <td>(-2.49)</td> <td>-12.50 k</td> <td>-38.73</td> <td>(-4.12)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.85</td> <td>(-18.85)</td> <td>-13.95 k</td> <td>-36.72</td> <td>(-16.72)</td> <td>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> <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	35.83	(-0.99)	0.0	35.83	(-0.99)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.10	(-2.49)	-12.50 k	-38.73	(-4.12)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.85	(-18.85)	-13.95 k	-36.72	(-16.72)	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	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 38 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.87 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>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>30.58</td> <td>(-1.13)</td> <td>-50.00</td> <td>30.51</td> <td>(-1.20)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-46.55</td> <td>(-6.82)</td> <td>-12.50 k</td> <td>-46.08</td> <td>(-7.44)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.50</td> <td>(-23.50)</td> <td>-15.65 k</td> <td>-41.48</td> <td>(-21.48)</td> <td>16.20 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)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.58	(-1.13)	-50.00	30.51	(-1.20)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.55	(-6.82)	-12.50 k	-46.08	(-7.44)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.50	(-23.50)	-15.65 k	-41.48	(-21.48)	16.20 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	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 38 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.92 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>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>29.76</td> <td>(-1.95)</td> <td>0.0</td> <td>29.76</td> <td>(-1.95)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.46</td> <td>(-1.73)</td> <td>-12.50 k</td> <td>-39.95</td> <td>(-0.85)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.39</td> <td>(-20.39)</td> <td>-16.15 k</td> <td>-40.02</td> <td>(-20.02)</td> <td>15.65 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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.76	(-1.95)	0.0	29.76	(-1.95)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.46	(-1.73)	-12.50 k	-39.95	(-0.85)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.39	(-20.39)	-16.15 k	-40.02	(-20.02)	15.65 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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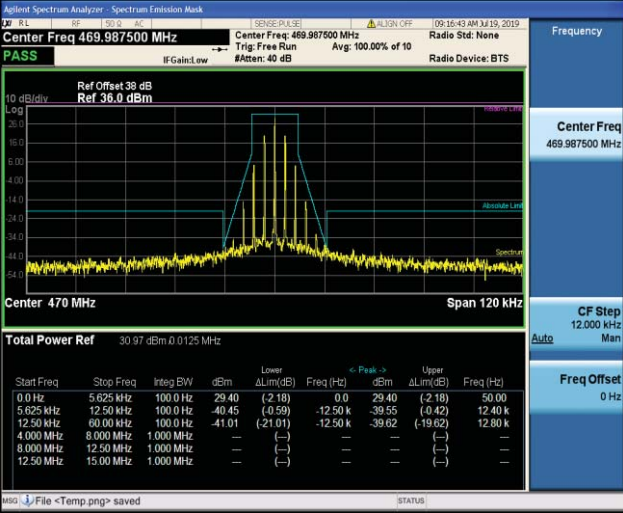


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 38 dB Ref 34.0 dBm</p> <p>Total Power Ref 29.55 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>28.95</td> <td>(-1.39)</td> <td>0.0</td> <td>28.95</td> <td>(-1.39)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.80</td> <td>(-4.53)</td> <td>-12.25 k</td> <td>-43.28</td> <td>(-2.91)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.10</td> <td>(-22.10)</td> <td>-14.35 k</td> <td>-42.22</td> <td>(-22.22)</td> <td>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> <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	28.95	(-1.39)	0.0	28.95	(-1.39)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.80	(-4.53)	-12.25 k	-43.28	(-2.91)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.10	(-22.10)	-14.35 k	-42.22	(-22.22)	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	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz</p> <p>Ref Offset 38 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.93 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>30.33</td> <td>(-1.25)</td> <td>0.0</td> <td>30.33</td> <td>(-1.25)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.14</td> <td>(-4.65)</td> <td>-12.45 k</td> <td>-42.40</td> <td>(-2.91)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.81</td> <td>(-21.81)</td> <td>-16.80 k</td> <td>-40.09</td> <td>(-20.09)</td> <td>12.60 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	30.33	(-1.25)	0.0	30.33	(-1.25)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.14	(-4.65)	-12.45 k	-42.40	(-2.91)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.81	(-21.81)	-16.80 k	-40.09	(-20.09)	12.60 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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Appendix C:Emission Mask

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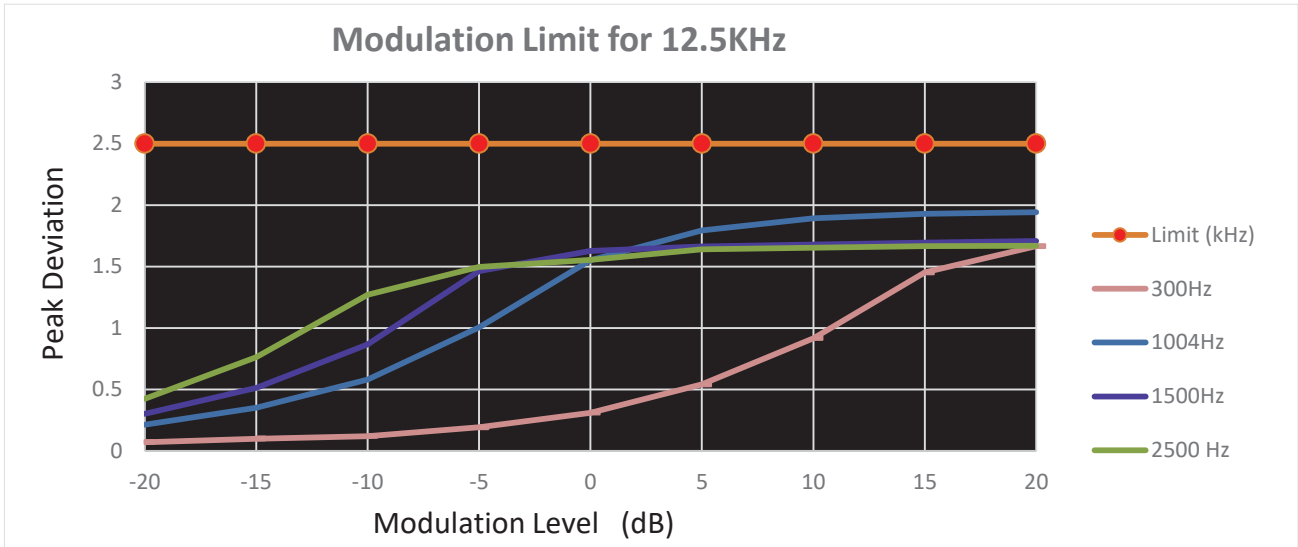
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.071	0.215	0.302	0.424	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.1	0.351	0.513	0.764	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.121	0.582	0.868	1.27	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.193	1.005	1.463	1.498	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.311	1.552	1.626	1.553	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.541	1.794	1.663	1.641	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.917	1.892	1.68	1.652	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.452	1.93	1.695	1.666	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.665	1.943	1.708	1.669	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



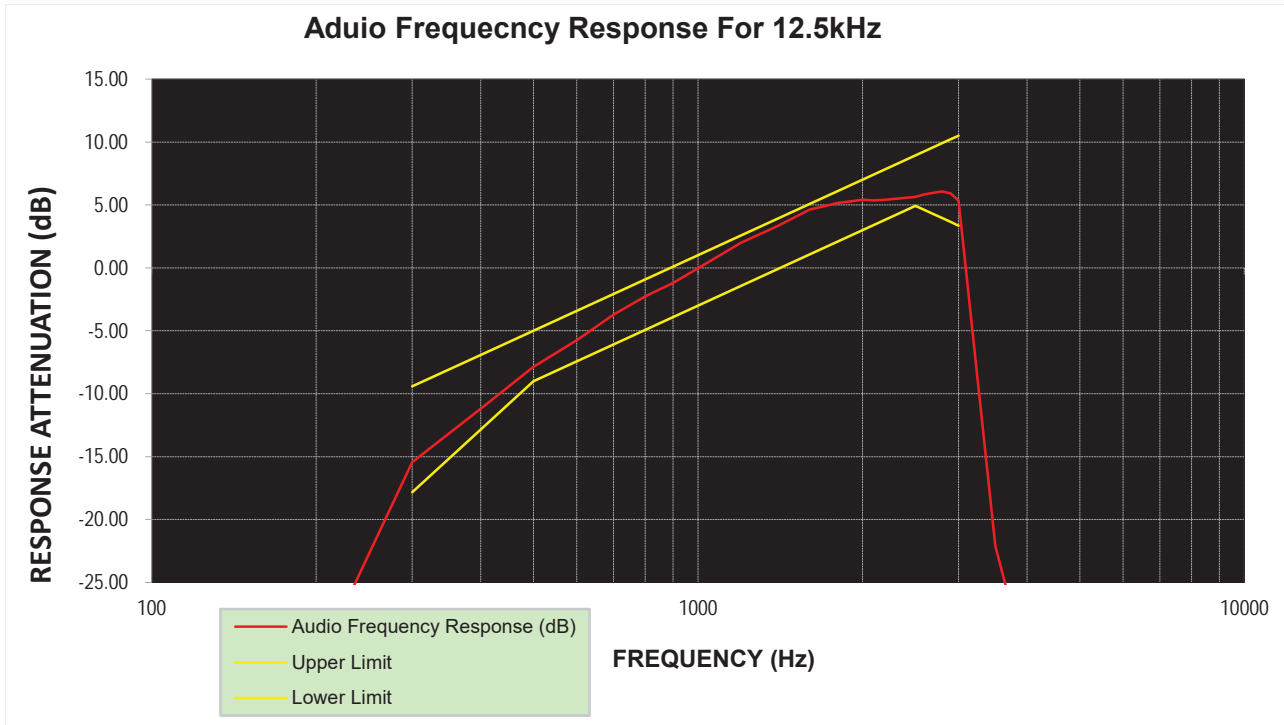
**Appendix E:Aduio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-31.63	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-31.63	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-15.44	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-11.20	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-7.85	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.76	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.71	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.26	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.20	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.04	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.99	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.34	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.62	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.16	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.40	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.37	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.40	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.50	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	5.56	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.63	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	5.84	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	5.97	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	6.07	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	5.92	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	5.35	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-22.10	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-31.79	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-31.59	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-31.45	-	-	PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.



Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	-0.184	-0.228	-0.227	-0.216	-0.233	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.189	-0.220	-0.225	-0.221	-0.227	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.183	-0.237	-0.213	-0.214	-0.221	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.176	-0.232	-0.218	-0.210	-0.224	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.190	-0.228	-0.221	-0.219	-0.240	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.175	-0.218	-0.207	-0.207	-0.219	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.183	-0.239	-0.216	-0.211	-0.234	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.185	-0.218	-0.215	-0.215	-0.239	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.179	-0.228	-0.224	-0.226	-0.234	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.175	-0.229	-0.199	-0.229	-0.207	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.186	-0.239	-0.193	-0.230	-0.226	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.188	-0.239	-0.197	-0.213	-0.216	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.184	-0.236	-0.196	-0.223	-0.222	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.189	-0.236	-0.201	-0.223	-0.219	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.174	-0.223	-0.192	-0.212	-0.206	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.186	-0.235	-0.203	-0.228	-0.220	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.185	-0.243	-0.208	-0.223	-0.210	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.189	-0.232	-0.199	-0.218	-0.214	±5.0	PASS
TX-ANH	FM	V _N	-30	0.299	0.305	0.298	0.304	0.269	±5.0	PASS
TX-ANH	FM	V _N	-20	0.296	0.302	0.298	0.288	0.250	±5.0	PASS
TX-ANH	FM	V _N	-10	0.304	0.295	0.288	0.293	0.253	±5.0	PASS
TX-ANH	FM	V _N	0	0.305	0.306	0.297	0.286	0.262	±5.0	PASS
TX-ANH	FM	V _N	10	0.314	0.313	0.297	0.291	0.267	±5.0	PASS
TX-ANH	FM	V _N	20	0.293	0.290	0.287	0.286	0.247	±5.0	PASS
TX-ANH	FM	V _N	30	0.321	0.298	0.302	0.298	0.269	±5.0	PASS
TX-ANH	FM	V _N	40	0.306	0.310	0.291	0.314	0.261	±5.0	PASS
TX-ANH	FM	V _N	55	0.299	0.301	0.315	0.301	0.266	±5.0	PASS
TX-ANL	FM	V _N	-30	0.320	0.308	0.311	0.321	0.286	±5.0	PASS
TX-ANL	FM	V _N	-20	0.315	0.320	0.315	0.330	0.279	±5.0	PASS
TX-ANL	FM	V _N	-10	0.324	0.312	0.310	0.312	0.293	±5.0	PASS
TX-ANL	FM	V _N	0	0.307	0.306	0.302	0.318	0.277	±5.0	PASS
TX-ANL	FM	V _N	10	0.298	0.316	0.317	0.310	0.271	±5.0	PASS
TX-ANL	FM	V _N	20	0.297	0.296	0.291	0.301	0.269	±5.0	PASS
TX-ANL	FM	V _N	30	0.324	0.307	0.307	0.321	0.294	±5.0	PASS
TX-ANL	FM	V _N	40	0.324	0.321	0.315	0.303	0.282	±5.0	PASS
TX-ANL	FM	V _N	55	0.314	0.297	0.314	0.303	0.287	±5.0	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.175	-0.218	-0.207	-0.207	-0.219	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.179	-0.218	-0.210	-0.210	-0.221	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.185	-0.224	-0.218	-0.209	-0.230	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.174	-0.223	-0.192	-0.212	-0.206	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.176	-0.224	-0.196	-0.216	-0.207	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.178	-0.226	-0.194	-0.213	-0.209	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.293	0.290	0.287	0.286	0.247	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.294	0.294	0.291	0.291	0.250	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.309	0.305	0.300	0.291	0.250	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.297	0.296	0.291	0.301	0.269	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.298	0.302	0.295	0.305	0.271	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.309	0.300	0.296	0.310	0.276	±5.0	PASS

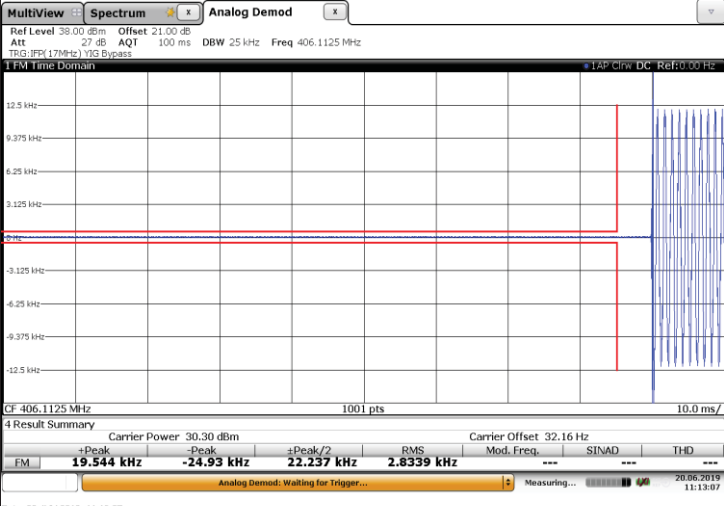


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CH _{M2}	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPI (17MHz) YIG Bypass</p> <p>FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <table border="1"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th colspan="2">Carrier Power 30.32 dBm</th> <th colspan="2">Carrier Offset 43.84 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> </tr> </thead> <tbody> <tr> <td>12.133 kHz</td> <td>-12.231 kHz</td> <td>12.182 kHz</td> <td>8.722 kHz</td> <td>1.0401 kHz</td> <td>---</td> </tr> </tbody> </table> <p>Date: 20.JUN.2019 11:15:15</p> <p>OFF~ON</p>	4 Result Summary		Carrier Power 30.32 dBm		Carrier Offset 43.84 Hz		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	12.133 kHz	-12.231 kHz	12.182 kHz	8.722 kHz	1.0401 kHz	---
4 Result Summary		Carrier Power 30.32 dBm		Carrier Offset 43.84 Hz																	
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD																
12.133 kHz	-12.231 kHz	12.182 kHz	8.722 kHz	1.0401 kHz	---																
TX-DNH	4FSK	CH _{M2}	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPI (17MHz) YIG Bypass</p> <p>FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <table border="1"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th colspan="2">Carrier Power 30.29 dBm</th> <th colspan="2">Carrier Offset 32.17 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> </tr> </thead> <tbody> <tr> <td>28.685 kHz</td> <td>-12.26 kHz</td> <td>20.473 kHz</td> <td>2.8376 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Date: 20.JUN.2019 11:14:46</p> <p>ON-OFF</p>	4 Result Summary		Carrier Power 30.29 dBm		Carrier Offset 32.17 Hz		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	28.685 kHz	-12.26 kHz	20.473 kHz	2.8376 kHz	---	---
4 Result Summary		Carrier Power 30.29 dBm		Carrier Offset 32.17 Hz																	
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TX-ANH	FM	CH _{M2}	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPI (17MHz) YIG Bypass</p> <p>FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <table border="1"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th colspan="2">Carrier Power 30.31 dBm</th> <th colspan="2">Carrier Offset 27.11 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> </tr> </thead> <tbody> <tr> <td>12.135 kHz</td> <td>-12.335 kHz</td> <td>12.235 kHz</td> <td>2.7795 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Date: 20.JUN.2019 11:12:22</p> <p>OFF~ON</p>	4 Result Summary		Carrier Power 30.31 dBm		Carrier Offset 27.11 Hz		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	12.135 kHz	-12.335 kHz	12.235 kHz	2.7795 kHz	---	---
4 Result Summary		Carrier Power 30.31 dBm		Carrier Offset 27.11 Hz																	
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD																
12.135 kHz	-12.335 kHz	12.235 kHz	2.7795 kHz	---	---																



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT													
TX-ANH	FM	CH _{M2}	 <table border="1" data-bbox="598 761 1324 840"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th>Carrier Power</th> <th>Carrier Offset</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>±Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>19.544 kHz</td> <td>-24.93 kHz</td> <td>22.237 kHz</td> <td>2.8339 kHz</td> </tr> </tbody> </table> <p data-bbox="598 840 1324 851">Date: 20 JUN 2019 11:13:07</p>	4 Result Summary		Carrier Power	Carrier Offset	+Peak	-Peak	±Peak/2	RMS	FM	19.544 kHz	-24.93 kHz	22.237 kHz	2.8339 kHz
4 Result Summary		Carrier Power	Carrier Offset													
+Peak	-Peak	±Peak/2	RMS													
FM	19.544 kHz	-24.93 kHz	22.237 kHz	2.8339 kHz												

ON-OFF



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CHL	 <p style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CHL	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-DNH	4FSK	CHM1	 <p style="text-align: center;">30MHz~1GHz</p>

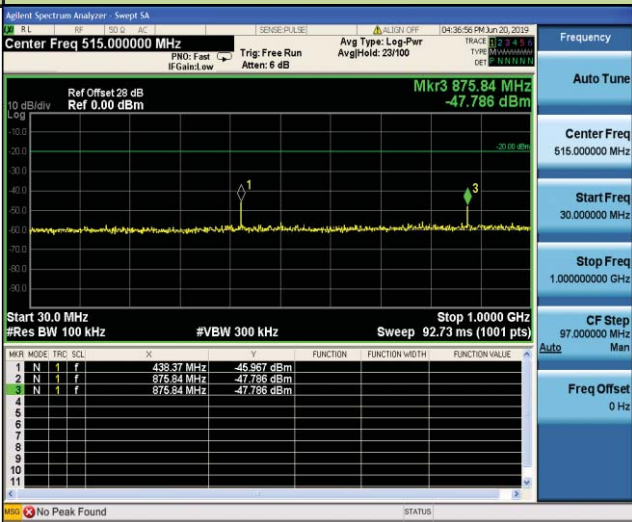

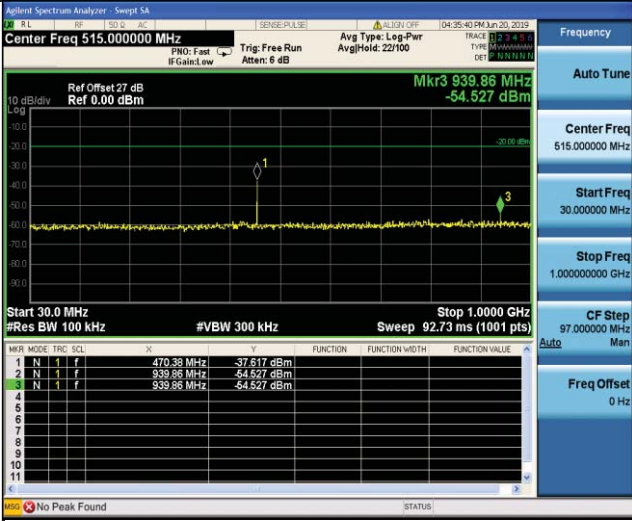


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																
TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.031 GHz -44.737 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																
TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 370.47 MHz -55.368 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>466.98 MHz</td> <td></td> <td></td> <td>-20.483 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>511.82 MHz</td> <td></td> <td></td> <td>-46.458 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>370.47 MHz</td> <td></td> <td></td> <td>-55.368 dBm</td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	466.98 MHz			-20.483 dBm	2	N	1	f	511.82 MHz			-46.458 dBm	3	N	1	f	370.47 MHz			-55.368 dBm
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2	N	1	f	511.82 MHz			-46.458 dBm																												
3	N	1	f	370.47 MHz			-55.368 dBm																												
TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.032 GHz -44.241 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																
TX-DNH	4FSK	CH _{M3}	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 28 dB Ref 0.00 dBm</p> <p>Mkr3 875.84 MHz -47.786 dBm</p> <p>Start 30.0 MHz #Res BW 100 kHz</p> <p>Stop 1.0000 GHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>F</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>438.37 MHz</td> <td></td> <td></td> <td>-46.967 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>875.84 MHz</td> <td></td> <td></td> <td>-47.786 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>875.84 MHz</td> <td></td> <td></td> <td>-47.786 dBm</td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	438.37 MHz			-46.967 dBm	2	N	1	f	875.84 MHz			-47.786 dBm	3	N	1	f	875.84 MHz			-47.786 dBm
MKR	MODE	TRC	SCL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																												
1	N	1	f	438.37 MHz			-46.967 dBm																												
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TX-DNH	4FSK	CH _{M3}	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.690062500 GHz</p> <p>Ref Offset 28 dB Ref 0.00 dBm</p> <p>Mkr1 2.751 GHz -43.998 dBm</p> <p>Start 1.000 GHz #Res BW 1.0 MHz</p> <p>Stop 4.380 GHz Sweep 5.667 ms (1001 pts)</p> <p>File <Temp.png> saved</p> <p>1GHz~10th Harmonic</p>																																
TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 27 dB Ref 0.00 dBm</p> <p>Mkr3 939.86 MHz -54.527 dBm</p> <p>Start 30.0 MHz #Res BW 100 kHz</p> <p>Stop 1.000 GHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>F</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>470.38 MHz</td> <td></td> <td></td> <td>-37.617 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>939.86 MHz</td> <td></td> <td></td> <td>-54.527 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>939.86 MHz</td> <td></td> <td></td> <td>-54.527 dBm</td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	470.38 MHz			-37.617 dBm	2	N	1	f	939.86 MHz			-54.527 dBm	3	N	1	f	939.86 MHz			-54.527 dBm
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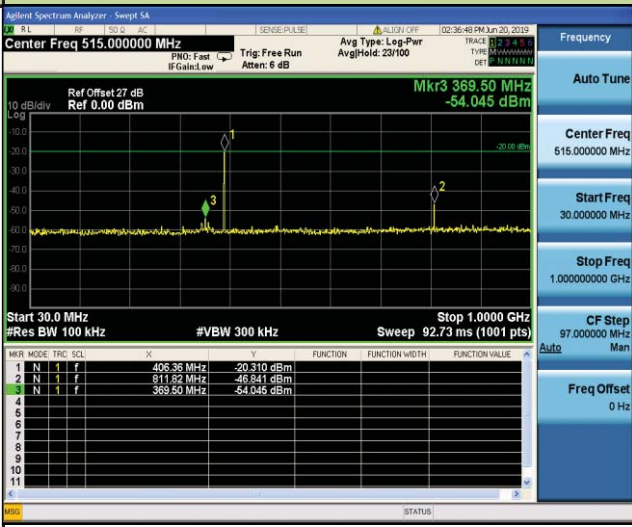
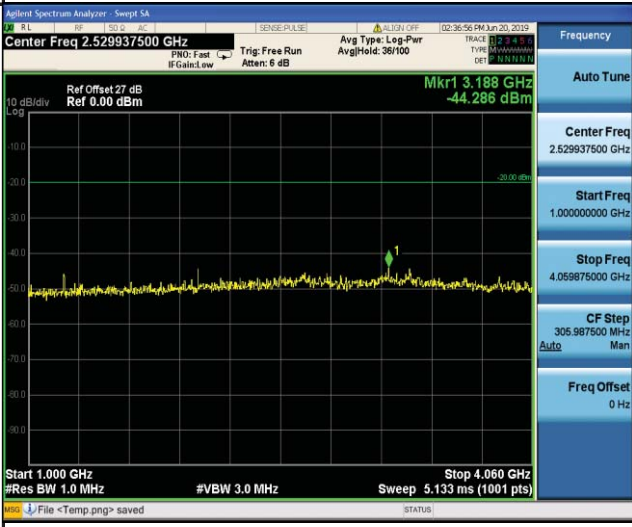
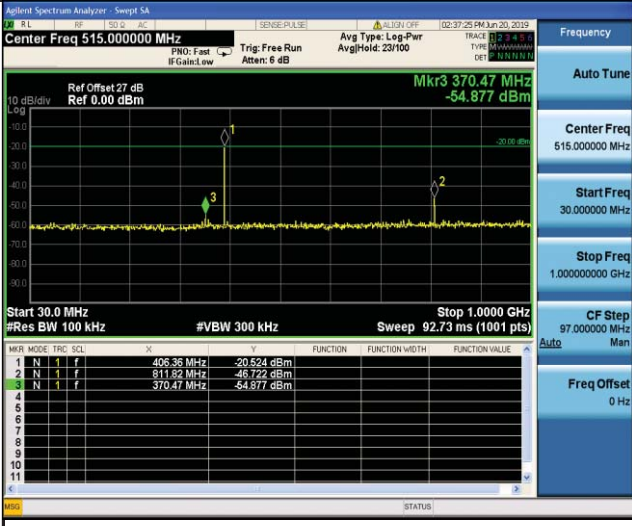


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.849937500 GHz Ref Offset 27 dB, Ref 0.00 dBm Mkr1 1.411 GHz -42.900 dBm Start 1.000 GHz, #Res BW 1.0 MHz, #VBW 3.0 MHz, Sweep 6.200 ms (1001 pts) Stop 4.700 GHz</p> <p>1GHz~10th Harmonic</p>																																				
TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB, Ref 0.00 dBm Mkr3 399.57 MHz -12.148 dBm Start 30.0 MHz, #Res BW 100 kHz, #VBW 300 kHz, Sweep 92.73 ms (1001 pts) Stop 1.000 GHz</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>F</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>399.57 MHz</td> <td>-12.148 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>399.57 MHz</td> <td>-12.148 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>399.57 MHz</td> <td>-12.148 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>No Peak Found</p> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	399.57 MHz	-12.148 dBm				2	N	1	f	399.57 MHz	-12.148 dBm				3	N	1	f	399.57 MHz	-12.148 dBm			
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TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.500062500 GHz Ref Offset 27 dB, Ref 0.00 dBm Mkr1 2.686 GHz -45.258 dBm Start 1.000 GHz, #Res BW 1.0 MHz, #VBW 3.0 MHz, Sweep 5.067 ms (1001 pts) Stop 4.000 GHz</p> <p>1GHz~10th Harmonic</p>																																				



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M1}	 <p style="text-align: center;">30MHz~1GHz</p>
TX-ANH	FM	CH _{M1}	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-ANH	FM	CH _{M2}	 <p style="text-align: center;">30MHz~1GHz</p>



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.032 GHz -44.254 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.061 GHz Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																
TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 28 dB Ref 0.00 dBm Mkr3 438.37 MHz -47.165 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td>f</td> <td>438.37 MHz</td> <td></td> <td></td> <td>-47.165 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td>f</td> <td>438.37 MHz</td> <td></td> <td></td> <td>-47.165 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td>f</td> <td>438.37 MHz</td> <td></td> <td></td> <td>-47.165 dBm</td> </tr> </tbody> </table> <p>No Peak Found</p> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f	f	438.37 MHz			-47.165 dBm	2	N	f	f	438.37 MHz			-47.165 dBm	3	N	f	f	438.37 MHz			-47.165 dBm
MKR	MODE	TRG	SCL	X	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																												
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2	N	f	f	438.37 MHz			-47.165 dBm																												
3	N	f	f	438.37 MHz			-47.165 dBm																												
TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.690062500 GHz Ref Offset 28 dB Ref 0.00 dBm Mkr1 2.190 GHz -41.067 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.380 GHz Sweep 5.667 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _H	<p style="text-align: center;">30MHz~1GHz</p>
TX-ANH	FM	CH _H	<p style="text-align: center;">1GHz~10th Harmonic</p>

----End of Report----