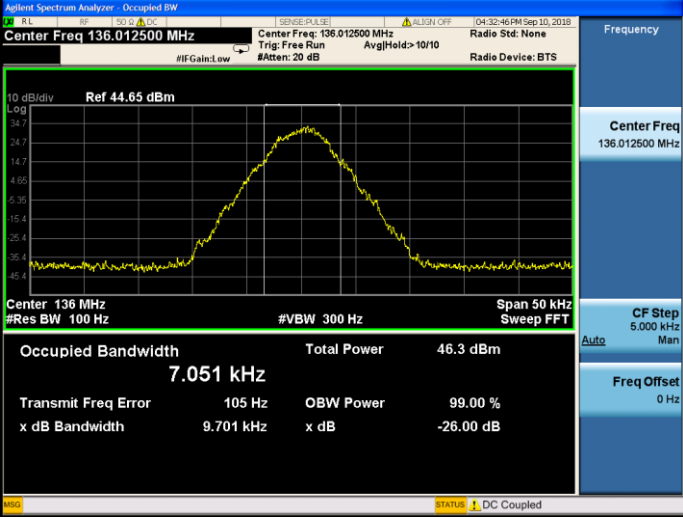
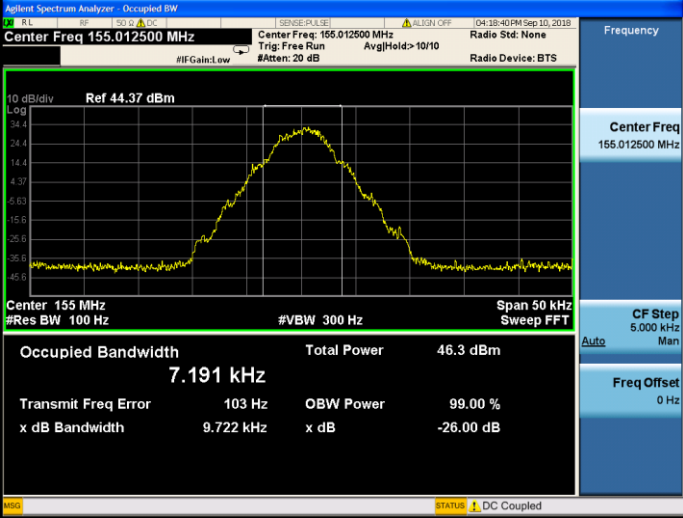
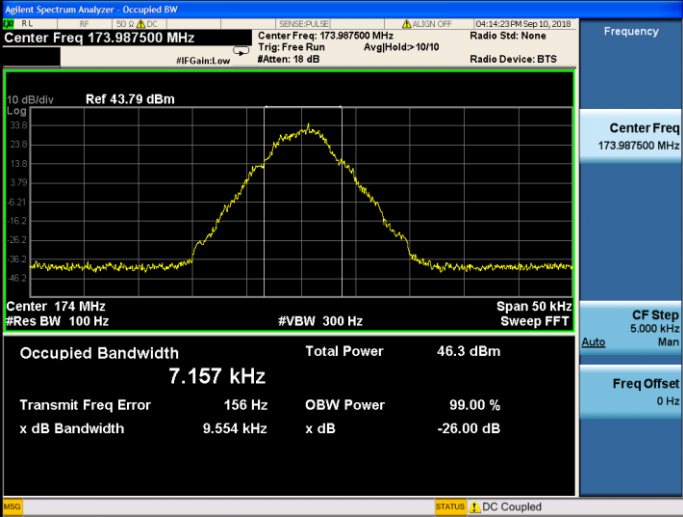




Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	
TX-DNL	4FSK	CH _{M2}	
TX-DNL	4FSK	CH _H	

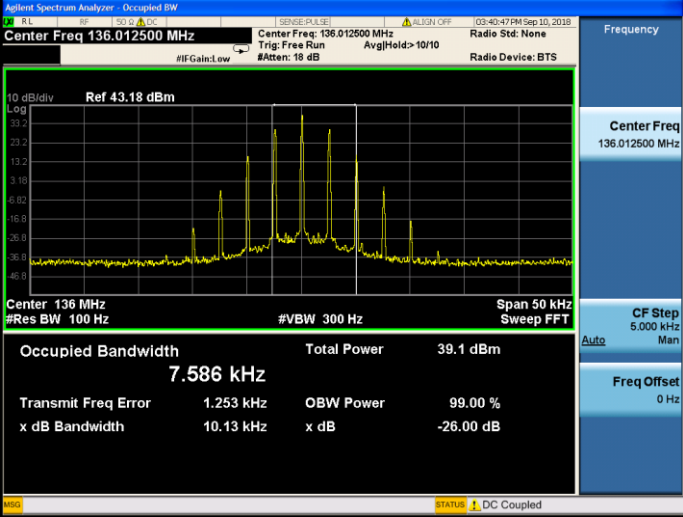
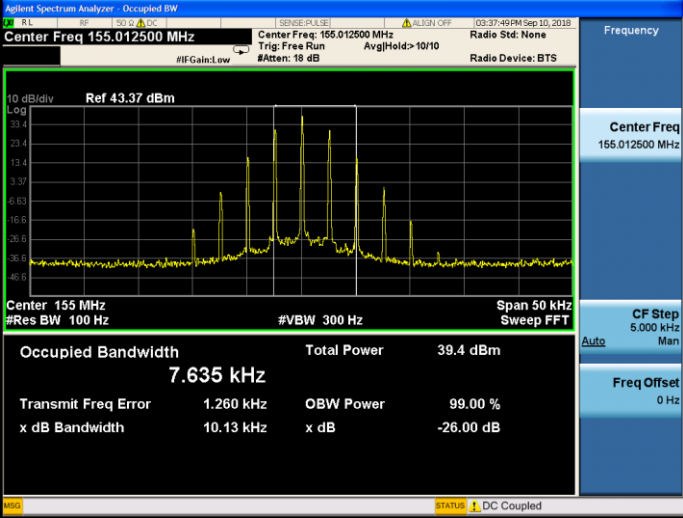
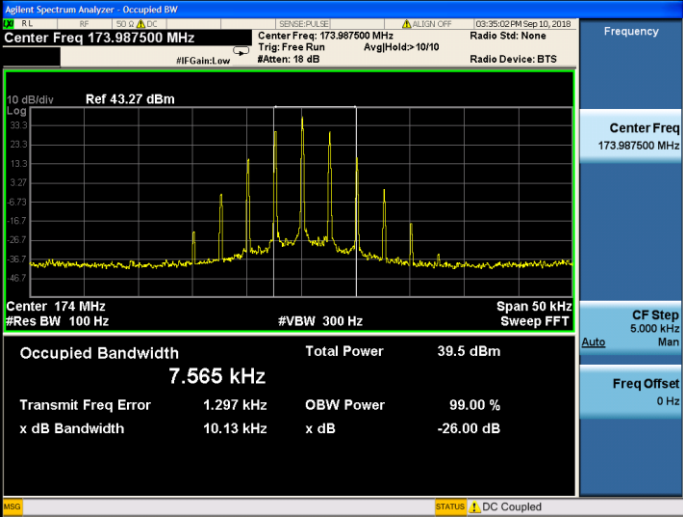


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 46.94 dBm 10 dB/div Center 136 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.603 kHz Total Power 42.9 dBm Transmit Freq Error 1.248 kHz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB STATUS DC Coupled
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 47.16 dBm 10 dB/div Center 155 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.855 kHz Total Power 43.2 dBm Transmit Freq Error 151 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB STATUS DC Coupled
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 47.18 dBm 10 dB/div Center 174 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.581 kHz Total Power 43.7 dBm Transmit Freq Error 1.290 kHz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB STATUS DC Coupled



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	
TX-ANL	FM	CH _{M2}	
TX-ANL	FM	CH _H	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:22:02 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 48.0 dBm 10 dB/div Log 36.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 136 MHz Span 120 kHz Total Power Ref 43.08 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.17</td><td>(-10.33)</td><td>0.0</td><td>43.01</td><td>(-1.49)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.63</td><td>(-5.15)</td><td>-12.30 k</td><td>-31.40</td><td>(-4.46)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.57</td><td>(-9.57)</td><td>-13.20 k</td><td>-29.20</td><td>(-9.20)</td><td>13.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	34.17	(-10.33)	0.0	43.01	(-1.49)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-30.63	(-5.15)	-12.30 k	-31.40	(-4.46)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.57	(-9.57)	-13.20 k	-29.20	(-9.20)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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	34.17	(-10.33)	0.0	43.01	(-1.49)	100.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-30.63	(-5.15)	-12.30 k	-31.40	(-4.46)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-29.57	(-9.57)	-13.20 k	-29.20	(-9.20)	13.40 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:22:53 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 48.0 dBm 10 dB/div Log 36.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 136 MHz Span 120 kHz Total Power Ref 46.79 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>33.67</td><td>(-10.83)</td><td>-300.0</td><td>35.56</td><td>(-8.94)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-29.18</td><td>(-3.69)</td><td>-12.30 k</td><td>-31.23</td><td>(-4.29)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-28.81</td><td>(-8.81)</td><td>-12.85 k</td><td>-28.98</td><td>(-8.98)</td><td>14.80 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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	33.67	(-10.83)	-300.0	35.56	(-8.94)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-29.18	(-3.69)	-12.30 k	-31.23	(-4.29)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-28.81	(-8.81)	-12.85 k	-28.98	(-8.98)	14.80 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	33.67	(-10.83)	-300.0	35.56	(-8.94)	250.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-29.18	(-3.69)	-12.30 k	-31.23	(-4.29)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-28.81	(-8.81)	-12.85 k	-28.98	(-8.98)	14.80 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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:17:00 PM Sep 10, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 36.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 155 MHz Span 120 kHz Total Power Ref 43.11 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.58</td><td>(-16.06)</td><td>0.0</td><td>43.12</td><td>(-1.53)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.01</td><td>(-6.86)</td><td>-12.00 k</td><td>-30.45</td><td>(-5.84)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.77</td><td>(-10.77)</td><td>-16.05 k</td><td>-30.84</td><td>(-10.84)</td><td>16.25 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></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	28.58	(-16.06)	0.0	43.12	(-1.53)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-30.01	(-6.86)	-12.00 k	-30.45	(-5.84)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.77	(-10.77)	-16.05 k	-30.84	(-10.84)	16.25 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	28.58	(-16.06)	0.0	43.12	(-1.53)	100.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-30.01	(-6.86)	-12.00 k	-30.45	(-5.84)	12.20 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-30.77	(-10.77)	-16.05 k	-30.84	(-10.84)	16.25 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 155 MHz Span 120 kHz Total Power Ref 46.35 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.93</td><td>(-12.72)</td><td>-750.0</td><td>35.41</td><td>(-9.24)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.46</td><td>(-3.67)</td><td>-11.95 k</td><td>-28.69</td><td>(-6.27)</td><td>11.90 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.88</td><td>(-9.88)</td><td>-12.55 k</td><td>-30.09</td><td>(-10.09)</td><td>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><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></table> Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz File <Temp.png> saved STATUS	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	31.93	(-12.72)	-750.0	35.41	(-9.24)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.46	(-3.67)	-11.95 k	-28.69	(-6.27)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.88	(-9.88)	-12.55 k	-30.09	(-10.09)	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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	31.93	(-12.72)	-750.0	35.41	(-9.24)	650.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-26.46	(-3.67)	-11.95 k	-28.69	(-6.27)	11.90 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-29.88	(-9.88)	-12.55 k	-30.09	(-10.09)	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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 174 MHz Span 120 kHz Total Power Ref 43.22 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.88</td><td>(-23.84)</td><td>0.0</td><td>43.20</td><td>(-1.52)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.35</td><td>(-11.00)</td><td>-12.45 k</td><td>-35.60</td><td>(-10.34)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.67</td><td>(-10.67)</td><td>-14.45 k</td><td>-30.21</td><td>(-10.21)</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></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz File <MASK D state> recalled STATUS	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	20.88	(-23.84)	0.0	43.20	(-1.52)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.35	(-11.00)	-12.45 k	-35.60	(-10.34)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.67	(-10.67)	-14.45 k	-30.21	(-10.21)	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	—	(—)	—	—	(—)	—
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	20.88	(-23.84)	0.0	43.20	(-1.52)	100.0																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-30.67	(-10.67)	-14.45 k	-30.21	(-10.21)	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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 174 MHz Span 120 kHz Total Power Ref 46.75 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>32.99</td><td>(-11.73)</td><td>-500.0</td><td>35.46</td><td>(-9.26)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-27.40</td><td>(-1.41)</td><td>-12.40 k</td><td>-31.52</td><td>(-5.53)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.05</td><td>(-10.05)</td><td>-16.10 k</td><td>-27.92</td><td>(-7.92)</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></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz File <Temp.png> saved STATUS	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	32.99	(-11.73)	-500.0	35.46	(-9.26)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-27.40	(-1.41)	-12.40 k	-31.52	(-5.53)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.05	(-10.05)	-16.10 k	-27.92	(-7.92)	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	—	(—)	—	—	(—)	—
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	32.99	(-11.73)	-500.0	35.46	(-9.26)	600.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-27.40	(-1.41)	-12.40 k	-31.52	(-5.53)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-30.05	(-10.05)	-16.10 k	-27.92	(-7.92)	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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:24:12 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log 35.0 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 -35.0 -45.0 Center 136 MHz Span 120 kHz Total Power Ref 39.39 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.55</td><td>(-10.27)</td><td>0.0</td><td>39.32</td><td>(-1.50)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.34</td><td>(-4.45)</td><td>-12.40 k</td><td>-36.65</td><td>(-7.85)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.56</td><td>(-14.56)</td><td>-13.15 k</td><td>-34.54</td><td>(-14.54)</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></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	30.55	(-10.27)	0.0	39.32	(-1.50)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.34	(-4.45)	-12.40 k	-36.65	(-7.85)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.56	(-14.56)	-13.15 k	-34.54	(-14.54)	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	30.55	(-10.27)	0.0	39.32	(-1.50)	100.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-34.34	(-4.45)	-12.40 k	-36.65	(-7.85)	12.25 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-34.56	(-14.56)	-13.15 k	-34.54	(-14.54)	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-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:24:50 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log 35.0 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 -35.0 -45.0 Center 136 MHz Span 120 kHz Total Power Ref 42.55 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.99</td><td>(-10.83)</td><td>-200.0</td><td>31.18</td><td>(-9.64)</td><td>1.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.57</td><td>(-2.96)</td><td>-12.50 k</td><td>-35.45</td><td>(-6.29)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.03</td><td>(-13.03)</td><td>-12.55 k</td><td>-32.96</td><td>(-12.96)</td><td>15.25 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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	29.99	(-10.83)	-200.0	31.18	(-9.64)	1.350 k	5.625 kHz	12.50 kHz	100.0 Hz	-33.57	(-2.96)	-12.50 k	-35.45	(-6.29)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.03	(-13.03)	-12.55 k	-32.96	(-12.96)	15.25 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	29.99	(-10.83)	-200.0	31.18	(-9.64)	1.350 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-33.57	(-2.96)	-12.50 k	-35.45	(-6.29)	12.30 k																																																										
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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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:19:17 PM Sep 10, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log 35.0 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 -35.0 -45.0 Center 155 MHz Span 120 kHz Total Power Ref 39.40 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>24.70</td><td>(-16.27)</td><td>0.0</td><td>39.41</td><td>(-1.56)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.77</td><td>(-7.40)</td><td>-12.35 k</td><td>-37.69</td><td>(-7.23)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.95</td><td>(-13.95)</td><td>-15.25 k</td><td>-34.68</td><td>(-14.68)</td><td>15.45 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></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	24.70	(-16.27)	0.0	39.41	(-1.56)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.77	(-7.40)	-12.35 k	-37.69	(-7.23)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.95	(-13.95)	-15.25 k	-34.68	(-14.68)	15.45 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	24.70	(-16.27)	0.0	39.41	(-1.56)	100.0																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 35 dB Ref 45.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 43.25 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.01</td><td>(-10.97)</td><td>0.0</td><td>30.46</td><td>(-10.51)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.60</td><td>(-5.14)</td><td>-12.50 k</td><td>-33.09</td><td>(-4.44)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.17</td><td>(-14.17)</td><td>-12.65 k</td><td>-33.04</td><td>(-13.04)</td><td>18.20 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></table> Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz File <Temp.png> saved STATUS	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	30.01	(-10.97)	0.0	30.46	(-10.51)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.60	(-5.14)	-12.50 k	-33.09	(-4.44)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.17	(-14.17)	-12.65 k	-33.04	(-13.04)	18.20 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	30.01	(-10.97)	0.0	30.46	(-10.51)	600.0																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-34.17	(-14.17)	-12.65 k	-33.04	(-13.04)	18.20 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 _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 35 dB Ref 45.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 39.35 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>17.22</td><td>(-23.64)</td><td>0.0</td><td>39.37</td><td>(-1.48)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.45</td><td>(-8.60)</td><td>-11.85 k</td><td>-34.57</td><td>(-7.26)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.65</td><td>(-13.65)</td><td>-14.25 k</td><td>-34.70</td><td>(-14.70)</td><td>14.45 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></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz File <MASK D state> recalled STATUS	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	17.22	(-23.64)	0.0	39.37	(-1.48)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.45	(-8.60)	-11.85 k	-34.57	(-7.26)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.65	(-13.65)	-14.25 k	-34.70	(-14.70)	14.45 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)																																																										
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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 _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 35 dB Ref 45.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 42.38 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.26</td><td>(-9.60)</td><td>-200.0</td><td>29.93</td><td>(-10.92)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.24</td><td>(-4.11)</td><td>-12.30 k</td><td>-32.51</td><td>(-2.65)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.23</td><td>(-13.23)</td><td>-12.95 k</td><td>-33.16</td><td>(-13.16)</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></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz File <Temp.png> saved STATUS	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	31.26	(-9.60)	-200.0	29.93	(-10.92)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.24	(-4.11)	-12.30 k	-32.51	(-2.65)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.23	(-13.23)	-12.95 k	-33.16	(-13.16)	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)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-33.23	(-13.23)	-12.95 k	-33.16	(-13.16)	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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:39:55 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 48.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 136 MHz Span 120 kHz Total Power Ref 42.92 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.55</td><td>(-13.86)</td><td>0.0</td><td>42.90</td><td>(-1.45)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.46</td><td>(-8.88)</td><td>-12.30 k</td><td>-33.87</td><td>(-6.84)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.76</td><td>(-10.76)</td><td>-14.00 k</td><td>-30.72</td><td>(-10.72)</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></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	30.55	(-13.86)	0.0	42.90	(-1.45)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.46	(-8.88)	-12.30 k	-33.87	(-6.84)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.76	(-10.76)	-14.00 k	-30.72	(-10.72)	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)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:40:26 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 48.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 136 MHz Span 120 kHz Total Power Ref 42.91 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.16</td><td>(-10.25)</td><td>-2.400 k</td><td>41.51</td><td>(-2.89)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.92</td><td>(-0.98)</td><td>-12.35 k</td><td>-30.90</td><td>(-3.87)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.83</td><td>(-9.83)</td><td>-14.50 k</td><td>-28.88</td><td>(-8.88)</td><td>16.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	34.16	(-10.25)	-2.400 k	41.51	(-2.89)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.92	(-0.98)	-12.35 k	-30.90	(-3.87)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.83	(-9.83)	-14.50 k	-28.88	(-8.88)	16.55 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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:36:59 PM Sep 10, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 155 MHz Span 120 kHz Total Power Ref 43.11 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.68</td><td>(-22.93)</td><td>0.0</td><td>43.14</td><td>(-1.48)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.24</td><td>(-8.51)</td><td>-12.35 k</td><td>-34.03</td><td>(-8.66)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.77</td><td>(-10.77)</td><td>-15.25 k</td><td>-30.57</td><td>(-10.57)</td><td>15.50 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></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	21.68	(-22.93)	0.0	43.14	(-1.48)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.24	(-8.51)	-12.35 k	-34.03	(-8.66)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.77	(-10.77)	-15.25 k	-30.57	(-10.57)	15.50 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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 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}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 155 MHz Span 120 kHz Total Power Ref 43.55 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.40</td><td>(-10.21)</td><td>-2.400 k</td><td>41.68</td><td>(-2.94)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-29.67</td><td>(-3.94)</td><td>-12.35 k</td><td>-28.68</td><td>(-2.23)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.11</td><td>(-9.11)</td><td>-12.55 k</td><td>-26.81</td><td>(-6.81)</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></table> Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	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	34.40	(-10.21)	-2.400 k	41.68	(-2.94)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-29.67	(-3.94)	-12.35 k	-28.68	(-2.23)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.11	(-9.11)	-12.55 k	-26.81	(-6.81)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 174 MHz Span 120 kHz Total Power Ref 43.76 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>10.91</td><td>(-33.79)</td><td>0.0</td><td>43.21</td><td>(-1.49)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.04</td><td>(-5.66)</td><td>-12.45 k</td><td>-25.08</td><td>(-4.51)</td><td>11.65 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.93</td><td>(-10.93)</td><td>-13.95 k</td><td>-30.78</td><td>(-10.78)</td><td>16.30 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></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	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	10.91	(-33.79)	0.0	43.21	(-1.49)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.04	(-5.66)	-12.45 k	-25.08	(-4.51)	11.65 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.93	(-10.93)	-13.95 k	-30.78	(-10.78)	16.30 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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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 36 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 174 MHz Span 120 kHz Total Power Ref 43.51 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.36</td><td>(-10.34)</td><td>-2.350 k</td><td>41.81</td><td>(-2.89)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-29.24</td><td>(-2.50)</td><td>-12.50 k</td><td>-30.38</td><td>(-4.37)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.21</td><td>(-9.21)</td><td>-16.00 k</td><td>-28.35</td><td>(-8.35)</td><td>14.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	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	34.36	(-10.34)	-2.350 k	41.81	(-2.89)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-29.24	(-2.50)	-12.50 k	-30.38	(-4.37)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.21	(-9.21)	-16.00 k	-28.35	(-8.35)	14.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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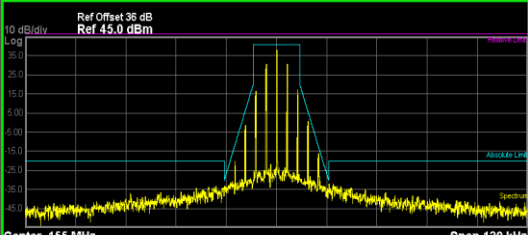
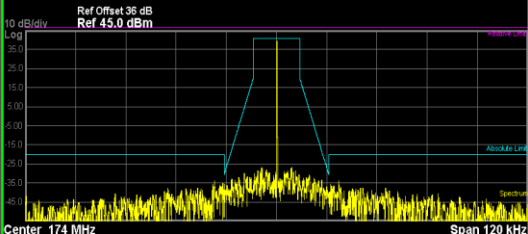
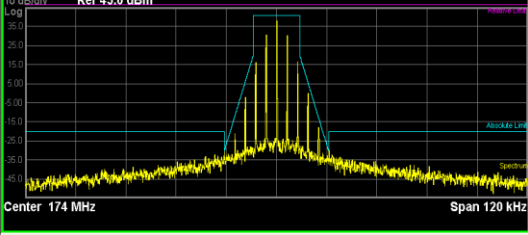


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:42:11 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log 35.0 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 -35.0 -45.0 Center 136 MHz Span 120 kHz Total Power Ref 39.20 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.13</td><td>(-12.56)</td><td>0.0</td><td>39.21</td><td>(-1.49)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.25</td><td>(-7.87)</td><td>-11.90 k</td><td>-35.13</td><td>(-7.30)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.04</td><td>(-11.04)</td><td>-12.50 k</td><td>-31.11</td><td>(-11.11)</td><td>12.70 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></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	28.13	(-12.56)	0.0	39.21	(-1.49)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.25	(-7.87)	-11.90 k	-35.13	(-7.30)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.04	(-11.04)	-12.50 k	-31.11	(-11.11)	12.70 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)																																																										
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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-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:42:33 PM Sep 10, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log 35.0 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 -35.0 -45.0 Center 136 MHz Span 120 kHz Total Power Ref 39.21 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.43</td><td>(-10.27)</td><td>-2.400 k</td><td>37.82</td><td>(-2.87)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.78</td><td>(-2.76)</td><td>-12.40 k</td><td>-30.76</td><td>(-2.56)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.86</td><td>(-12.86)</td><td>-12.50 k</td><td>-31.94</td><td>(-11.94)</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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	30.43	(-10.27)	-2.400 k	37.82	(-2.87)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.78	(-2.76)	-12.40 k	-30.76	(-2.56)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.86	(-12.86)	-12.50 k	-31.94	(-11.94)	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)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:36:26 PM Sep 10, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log 35.0 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 -35.0 -45.0 Center 155 MHz Span 120 kHz Total Power Ref 39.38 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>18.14</td><td>(-22.79)</td><td>0.0</td><td>39.41</td><td>(-1.52)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.43</td><td>(-5.28)</td><td>-12.45 k</td><td>-34.75</td><td>(-6.06)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.07</td><td>(-14.07)</td><td>-12.80 k</td><td>-33.99</td><td>(-13.99)</td><td>13.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	18.14	(-22.79)	0.0	39.41	(-1.52)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.43	(-5.28)	-12.45 k	-34.75	(-6.06)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.07	(-14.07)	-12.80 k	-33.99	(-13.99)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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5.625 kHz	12.50 kHz	100.0 Hz	-35.43	(-5.28)	-12.45 k	-34.75	(-6.06)	12.25 k																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:36:46 PM Sep 10, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Atten: 40 dB Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log  Center 155 MHz Span 120 kHz Total Power Ref 39.64 dBm 0.0125 MHz <table><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>30.69</td><td>(-10.24)</td><td>-2.400 k</td><td>37.98</td><td>(-2.95)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.01</td><td>(-3.23)</td><td>-12.40 k</td><td>-16.48</td><td>(-3.05)</td><td>10.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.27</td><td>(-13.27)</td><td>-14.45 k</td><td>-31.95</td><td>(-11.95)</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> File <Temp.png> saved (STATUS) Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	30.69	(-10.24)	-2.400 k	37.98	(-2.95)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.01	(-3.23)	-12.40 k	-16.48	(-3.05)	10.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.27	(-13.27)	-14.45 k	-31.95	(-11.95)	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	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:35:30 PM Sep 10, 2018 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Atten: 40 dB Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log  Center 174 MHz Span 120 kHz Total Power Ref 39.69 dBm 0.0125 MHz <table><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>5.152</td><td>(-35.66)</td><td>0.0</td><td>39.33</td><td>(-1.49)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.47</td><td>(-4.85)</td><td>-12.50 k</td><td>-36.90</td><td>(-9.91)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.01</td><td>(-14.01)</td><td>-14.70 k</td><td>-33.84</td><td>(-13.84)</td><td>14.95 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> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	5.152	(-35.66)	0.0	39.33	(-1.49)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.47	(-4.85)	-12.50 k	-36.90	(-9.91)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.01	(-14.01)	-14.70 k	-33.84	(-13.84)	14.95 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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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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-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 03:35:52 PM Sep 10, 2018 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Atten: 40 dB Ref Offset 36 dB Ref 45.0 dBm 10 dB/div Log  Center 174 MHz Span 120 kHz Total Power Ref 39.65 dBm 0.0125 MHz <table><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>30.48</td><td>(-10.33)</td><td>-2.350 k</td><td>37.96</td><td>(-2.86)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.73</td><td>(-0.11)</td><td>-12.50 k</td><td>-34.62</td><td>(-4.00)</td><td>12.50 k</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>-14.60 k</td><td>-29.94</td><td>(-9.94)</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> File <Temp.png> saved (STATUS) Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	30.48	(-10.33)	-2.350 k	37.96	(-2.86)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-30.73	(-0.11)	-12.50 k	-34.62	(-4.00)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.21	(-12.21)	-14.60 k	-29.94	(-9.94)	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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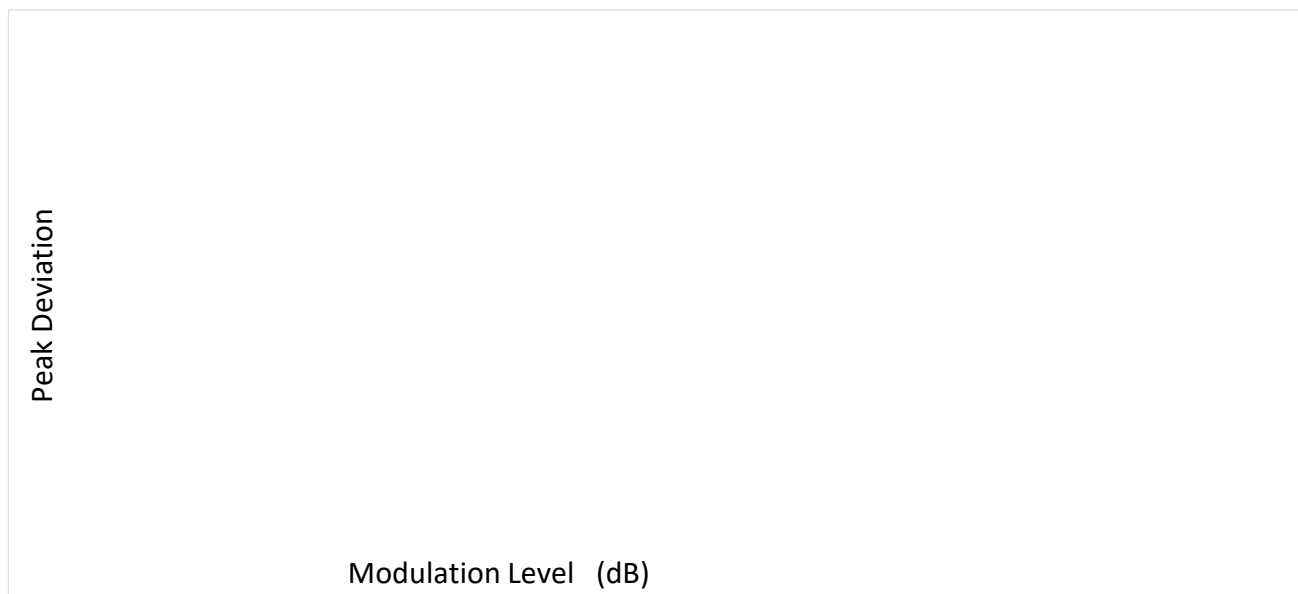
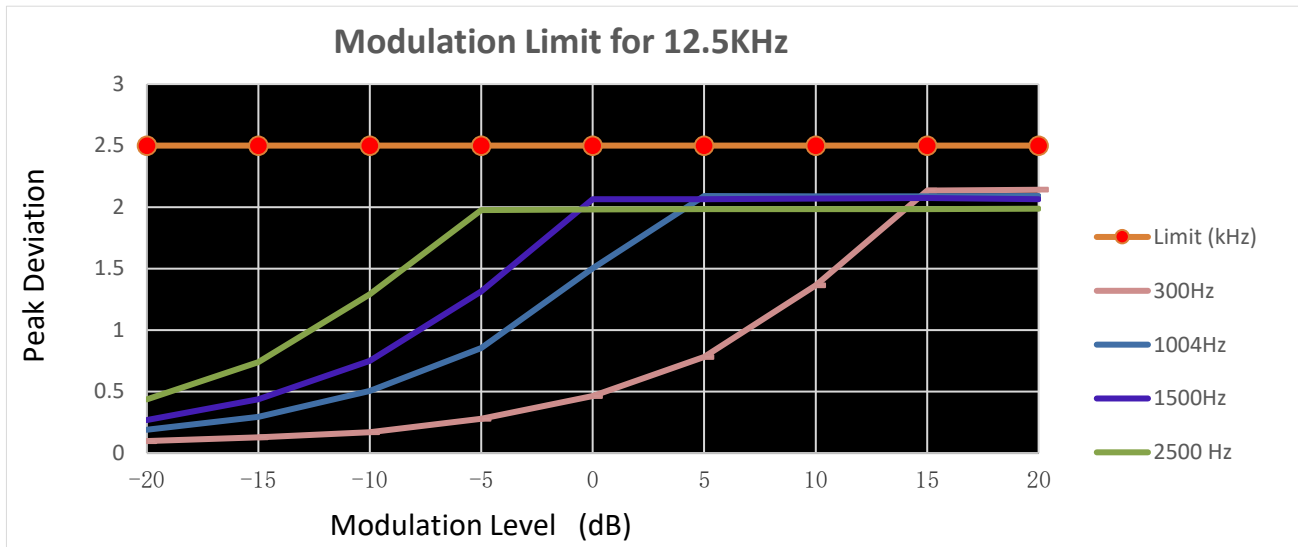
**Appendix D:Modulation Limit**

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	0.098	0.19	0.269	0.437	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.129	0.296	0.438	0.74	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.171	0.506	0.749	1.292	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.279	0.854	1.314	1.975	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.464	1.502	2.065	1.981	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.781	2.09	2.064	1.984	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.364	2.088	2.069	1.984	2.5	PASS
TX-ANH	FM	CH _{M2}	15	2.135	2.087	2.074	1.983	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.141	2.089	2.063	1.987	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

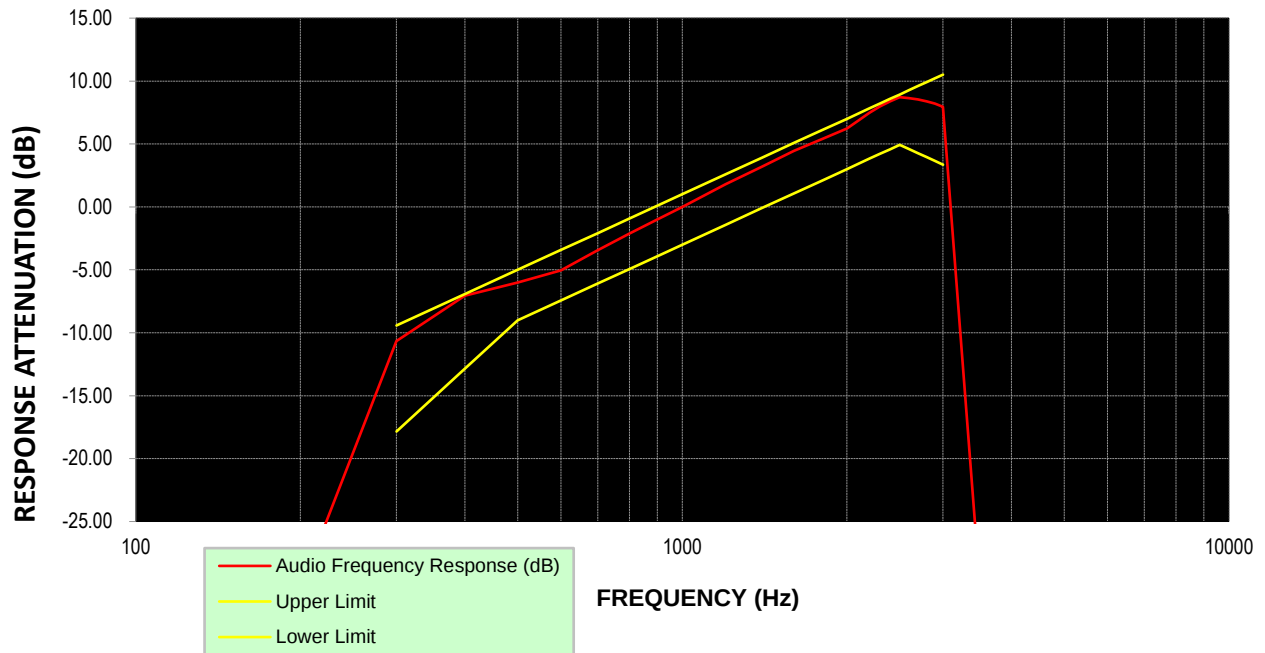
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-29.40	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-30.33	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-10.65	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-7.06	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.01	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.05	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.43	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.12	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.01	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.01	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.79	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.20	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.43	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.37	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	6.24	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	6.86	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	7.47	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	7.98	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	8.38	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	8.72	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	8.65	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	8.53	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	8.39	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	8.21	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	7.96	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-30.03	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-30.78	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-30.70	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-30.45	-	-	PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT

Aduio Freqeuncy Response For 12.5kHz



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

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

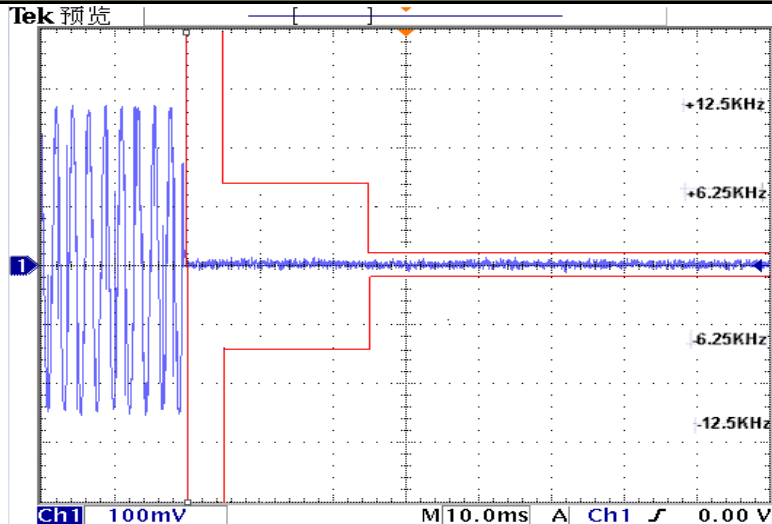
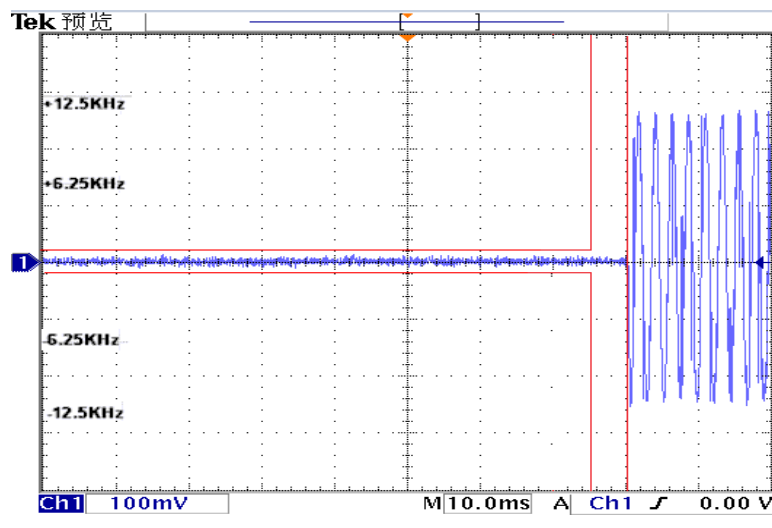
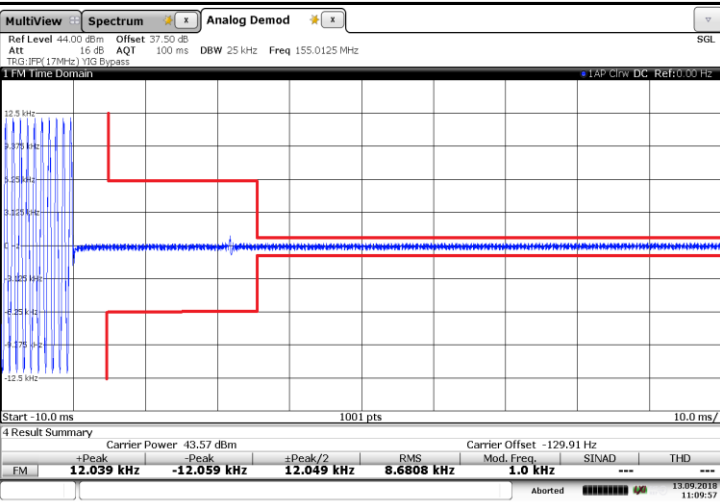
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M2}	CH _H		
TX-DNH	4FSK	V _N	-30	0.011	-0.002	-0.036	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.011	-0.002	-0.037	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.010	-0.002	-0.036	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.010	-0.002	-0.035	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.011	-0.002	-0.037	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.010	-0.002	-0.034	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.011	-0.002	-0.037	±5.0	PASS
TX-DNH	4FSK	V _N	40	<u>0.011</u>	-0.002	-0.037	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.011	-0.002	-0.034	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.043	-0.013	-0.058	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.041	-0.013	-0.061	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.043	-0.014	-0.059	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.042	-0.014	-0.061	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.043	-0.014	-0.064	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.040	-0.013	-0.058	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.042	-0.014	-0.062	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.042	-0.014	-0.060	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.043	-0.014	-0.058	±5.0	PASS
TX-ANH	FM	V _N	-30	0.663	0.670	0.685	±5.0	PASS
TX-ANH	FM	V _N	-20	0.717	0.727	0.708	±5.0	PASS
TX-ANH	FM	V _N	-10	0.697	0.719	0.725	±5.0	PASS
TX-ANH	FM	V _N	0	0.675	0.692	0.705	±5.0	PASS
TX-ANH	FM	V _N	10	0.681	0.720	0.685	±5.0	PASS
TX-ANH	FM	V _N	20	0.662	0.661	0.666	±5.0	PASS
TX-ANH	FM	V _N	30	0.706	0.663	0.698	±5.0	PASS
TX-ANH	FM	V _N	40	0.690	0.680	0.702	±5.0	PASS
TX-ANH	FM	V _N	55	0.677	0.668	0.709	±5.0	PASS
TX-ANL	FM	V _N	-30	0.668	0.716	0.716	±5.0	PASS
TX-ANL	FM	V _N	-20	0.679	0.724	0.693	±5.0	PASS
TX-ANL	FM	V _N	-10	0.711	<u>0.731</u>	0.668	±5.0	PASS
TX-ANL	FM	V _N	0	0.668	0.694	0.663	±5.0	PASS
TX-ANL	FM	V _N	10	0.685	0.681	0.697	±5.0	PASS
TX-ANL	FM	V _N	20	0.657	0.665	0.662	±5.0	PASS
TX-ANL	FM	V _N	30	0.671	0.703	0.707	±5.0	PASS
TX-ANL	FM	V _N	40	0.663	0.690	0.713	±5.0	PASS
TX-ANL	FM	V _N	55	0.708	0.680	0.699	±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 _{M2}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.010	-0.002	-0.034	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.010	-0.002	-0.034	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	<u>0.010</u>	-0.002	-0.035	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.040	-0.013	-0.058	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.040	-0.013	-0.058	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.041	-0.013	-0.060	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.662	0.661	0.666	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.664	0.669	0.671	±5.0	PASS
TX-ANH	FM	V _H	T _N	<u>0.700</u>	0.671	0.670	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.657	0.665	0.662	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.659	0.672	0.669	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.669	0.697	0.699	±5.0	PASS



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _{M2}	Tek 预览  Ch1 100mV M 10.0ms A Ch1 0.00 V OFF-ON												
TX-DNH	4FSK	CH _{M2}	Tek 预览  Ch1 100mV M 10.0ms A Ch1 0.00 V ON-OFF												
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod  Start -10.0 ms 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td></td><td>Carrier Power</td><td>Carrier Offset</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>43.57 dBm</td><td>-129.91 Hz</td><td>1.0 kHz</td><td>---</td><td>---</td></tr></table> Date: 13.SEP.2018 11:09:57 OFF-ON		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	43.57 dBm	-129.91 Hz	1.0 kHz	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	43.57 dBm	-129.91 Hz	1.0 kHz	---	---										

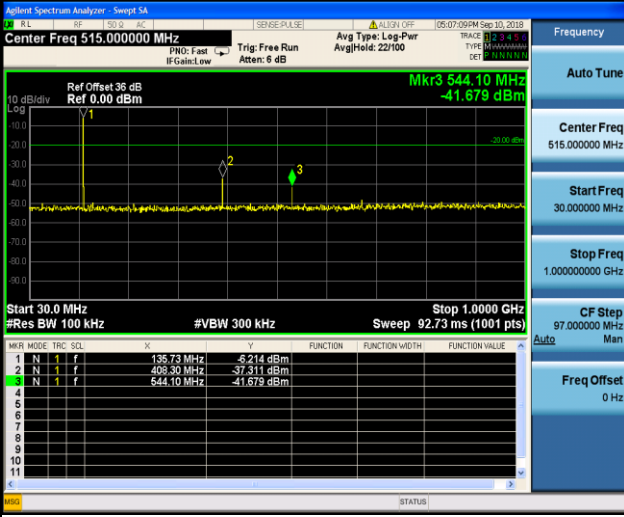
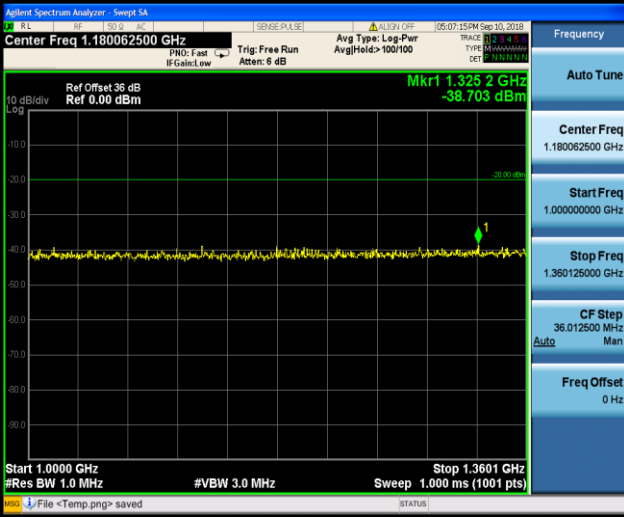
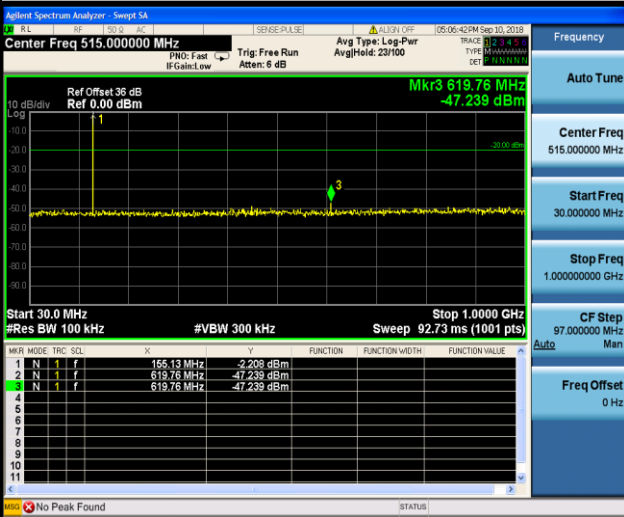


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																								
TX-ANH	FM	CH _{M2}	MultViewSpectrumAnalog Demod Ref Level 44.00 dBm Offset 37.50 dB Att 16 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG: JFSK (170kHz) XG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz Start -90.0 ms 1001 pts 10.0 ms 4 Result Summary <table><tr><th></th><th>Carrier Power</th><th>-49.55 dBm</th><th></th><th>Carrier Offset</th><th>29.79 Hz</th><th></th><th></th></tr><tr><th></th><th>+Peak</th><th>-Peak</th><th>±Peak/2</th><th>RMS</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM</td><td>12.059 kHz</td><td>-12.161 kHz</td><td>12.11 kHz</td><td>8.6455 kHz</td><td>1.0344 kHz</td><td>---</td><td>---</td></tr></table> Aborted13.SEP.2018 11:12:24 ON-OFF		Carrier Power	-49.55 dBm		Carrier Offset	29.79 Hz				+Peak	-Peak	±Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	12.059 kHz	-12.161 kHz	12.11 kHz	8.6455 kHz	1.0344 kHz	---	---
	Carrier Power	-49.55 dBm		Carrier Offset	29.79 Hz																						
	+Peak	-Peak	±Peak/2	RMS	Mod. Freq.	SINAD	THD																				
FM	12.059 kHz	-12.161 kHz	12.11 kHz	8.6455 kHz	1.0344 kHz	---	---																				



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 30MHz~1GHz
TX-DNH	4FSK	CH _L	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M2}	 30MHz~1GHz