

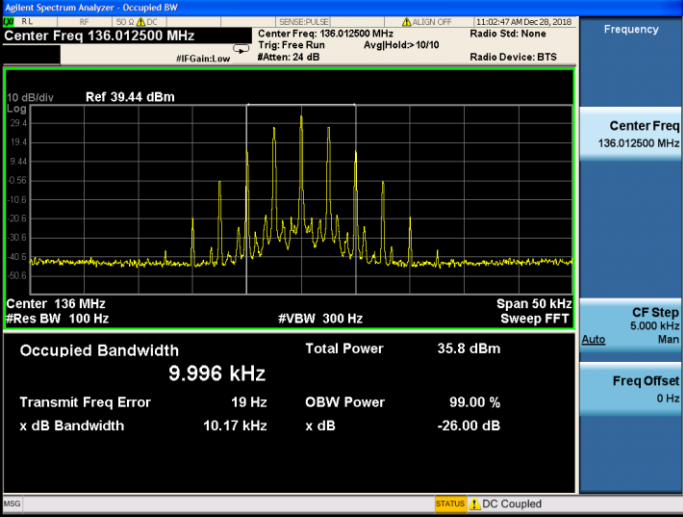
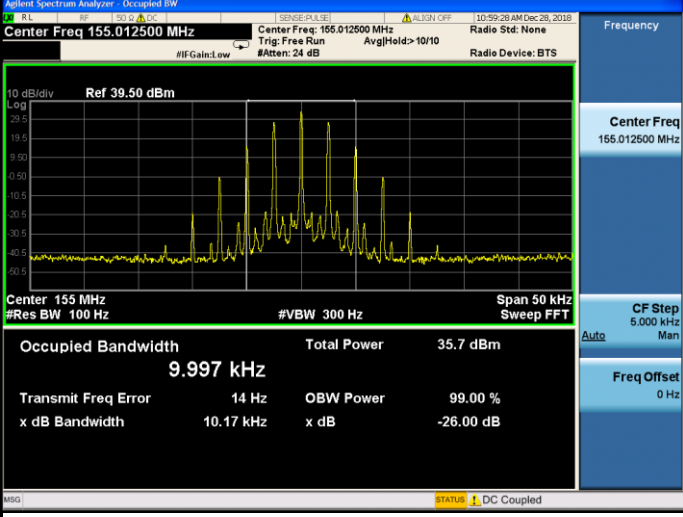
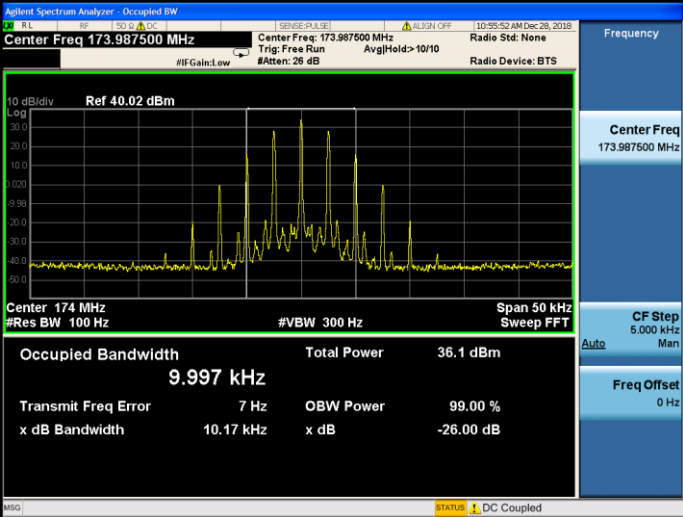


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None Trig: Free Run AvgHld: 10/10 Radio Device: BTS #IF Gain: Low #Atten: 20 dB 10 dB/div Ref 35.38 dBm Center 136 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT Occupied Bandwidth 7.851 kHz Total Power 36.7 dBm Transmit Freq Error -99 Hz OBW Power 99.00 % x dB Bandwidth 9.934 kHz x dB -26.00 dB MSG STATUS DC Coupled
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None Trig: Free Run AvgHld: 10/10 Radio Device: BTS #IF Gain: Low #Atten: 22 dB 10 dB/div Ref 36.91 dBm Center 155 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT Occupied Bandwidth 8.010 kHz Total Power 37.9 dBm Transmit Freq Error -23 Hz OBW Power 99.00 % x dB Bandwidth 10.38 kHz x dB -26.00 dB MSG STATUS DC Coupled
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None Trig: Free Run AvgHld: 10/10 Radio Device: BTS #IF Gain: Low #Atten: 24 dB 10 dB/div Ref 38.06 dBm Center 174 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT Occupied Bandwidth 7.833 kHz Total Power 38.6 dBm Transmit Freq Error -34 Hz OBW Power 99.00 % x dB Bandwidth 9.845 kHz x dB -26.00 dB MSG STATUS DC Coupled



Appendix B:Occupied Bandwidth

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



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	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 #IF Gain: Low #Atten: 20 dB 11:04:15 AM Dec 28, 2018 10 dB/div Ref 34.27 dBm L 9.9 24.3 14.3 4.27 6.73 16.7 26.7 36.7 46.7 56.7 Center 136 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.991 kHz Total Power 30.7 dBm Transmit Freq Error 31 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB MSG STATUS DC Coupled Frequency Center Freq 136.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANL	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 #IF Gain: Low #Atten: 20 dB 11:01:07 AM Dec 28, 2018 10 dB/div Ref 35.16 dBm L 9.9 25.2 15.2 4.84 6.16 14.8 24.8 34.8 44.8 54.8 Center 155 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.996 kHz Total Power 31.4 dBm Transmit Freq Error 19 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB MSG STATUS DC Coupled Frequency Center Freq 155.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANL	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 #IF Gain: Low #Atten: 20 dB 10:57:30 AM Dec 28, 2018 10 dB/div Ref 35.88 dBm L 9.9 25.9 15.9 4.12 6.00 14.1 24.1 34.1 44.1 54.1 Center 174 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.997 kHz Total Power 32.0 dBm Transmit Freq Error 12 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB MSG STATUS DC Coupled Frequency Center Freq 173.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz



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 01:56:26 PM Dec 26, 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 26 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 136 MHz Span 120 kHz Total Power Ref 35.54 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>35.42</td><td>(-1.49)</td><td>0.0</td><td>35.42</td><td>(-1.49)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.42</td><td>(-4.43)</td><td>-12.15 k</td><td>-36.64</td><td>(-4.28)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.48</td><td>(-18.48)</td><td>-12.50 k</td><td>-38.11</td><td>(-18.11)</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 <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	35.42	(-1.49)	0.0	35.42	(-1.49)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.42	(-4.43)	-12.15 k	-36.64	(-4.28)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.48	(-18.48)	-12.50 k	-38.11	(-18.11)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:57:07 PM Dec 26, 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 26 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 136 MHz Span 120 kHz Total Power Ref 38.68 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>26.62</td><td>(-10.29)</td><td>-800.0</td><td>27.00</td><td>(-9.91)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.67</td><td>(-5.13)</td><td>-12.50 k</td><td>-39.57</td><td>(-5.03)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.47</td><td>(-16.47)</td><td>-13.25 k</td><td>-37.63</td><td>(-17.63)</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></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	26.62	(-10.29)	-800.0	27.00	(-9.91)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.67	(-5.13)	-12.50 k	-39.57	(-5.03)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.47	(-16.47)	-13.25 k	-37.63	(-17.63)	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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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:47:04 PM Dec 26, 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 26 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 155 MHz Span 120 kHz Total Power Ref 35.63 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>35.40</td><td>(-1.51)</td><td>0.0</td><td>35.47</td><td>(-1.44)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.39</td><td>(-8.05)</td><td>-12.20 k</td><td>-41.76</td><td>(-7.60)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.81</td><td>(-19.81)</td><td>-15.75 k</td><td>-39.26</td><td>(-19.26)</td><td>15.80 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 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	35.40	(-1.51)	0.0	35.47	(-1.44)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.39	(-8.05)	-12.20 k	-41.76	(-7.60)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.81	(-19.81)	-15.75 k	-39.26	(-19.26)	15.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq: 155.012500 MHz Span: 120 kHz Ref Offset: 26 dB, Ref: 41.0 dBm Total Power Ref: 39.25 dBm @ 0.0125 MHz <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>24.53</td> <td>(-12.38)</td> <td>-450.0</td> <td>27.70</td> <td>(-9.22)</td> <td>1.650 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.62</td> <td>(-4.37)</td> <td>-12.05 k</td> <td>-39.72</td> <td>(-5.20)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.97</td> <td>(-17.97)</td> <td>-13.45 k</td> <td>-36.20</td> <td>(-16.20)</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	24.53	(-12.38)	-450.0	27.70	(-9.22)	1.650 k	5.625 kHz	12.50 kHz	100.0 Hz	-35.62	(-4.37)	-12.05 k	-39.72	(-5.20)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.97	(-17.97)	-13.45 k	-36.20	(-16.20)	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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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 Span: 120 kHz Ref Offset: 26 dB, Ref: 41.0 dBm Total Power Ref: 39.15 dBm @ 0.0125 MHz <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>24.92</td> <td>(-12.23)</td> <td>0.0</td> <td>25.47</td> <td>(-11.68)</td> <td>350.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.25</td> <td>(-6.14)</td> <td>-12.20 k</td> <td>-36.79</td> <td>(-3.23)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.96</td> <td>(-15.96)</td> <td>-12.70 k</td> <td>-37.66</td> <td>(-17.66)</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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.92	(-12.23)	0.0	25.47	(-11.68)	350.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.25	(-6.14)	-12.20 k	-36.79	(-3.23)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.96	(-15.96)	-12.70 k	-37.66	(-17.66)	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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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 01:59:18 PM Dec 26, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 26 dB Ref 36.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 -48.0 -54.0 Center 136 MHz Span 120 kHz Total Power Ref 30.36 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>30.08</td><td>(-1.50)</td><td>0.0</td><td>30.12</td><td>(-1.46)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.71</td><td>(-8.03)</td><td>-12.20 k</td><td>-45.40</td><td>(-7.00)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.01</td><td>(-23.01)</td><td>-13.05 k</td><td>-42.70</td><td>(-22.70)</td><td>13.10 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><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 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	30.08	(-1.50)	0.0	30.12	(-1.46)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-45.71	(-8.03)	-12.20 k	-45.40	(-7.00)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.01	(-23.01)	-13.05 k	-42.70	(-22.70)	13.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:59:55 PM Dec 26, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 26 dB Ref 36.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 -48.0 -54.0 Center 136 MHz Span 120 kHz Total Power Ref 33.44 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>20.11</td><td>(-11.48)</td><td>-1.800 k</td><td>20.89</td><td>(-10.70)</td><td>1.700 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.99</td><td>(-5.14)</td><td>-12.50 k</td><td>-43.76</td><td>(-4.63)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.68</td><td>(-21.68)</td><td>-16.05 k</td><td>-41.31</td><td>(-21.31)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	20.11	(-11.48)	-1.800 k	20.89	(-10.70)	1.700 k	5.625 kHz	12.50 kHz	100.0 Hz	-44.99	(-5.14)	-12.50 k	-43.76	(-4.63)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.68	(-21.68)	-16.05 k	-41.31	(-21.31)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:40:55 PM Dec 26, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 26 dB Ref 37.0 dBm 10 dB/div Log 37.0 31.0 25.0 19.0 13.0 7.0 1.0 -5.0 -11.0 -17.0 -23.0 -29.0 -35.0 -41.0 -47.0 -53.0 Center 155 MHz Span 120 kHz Total Power Ref 31.67 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>31.06</td><td>(-1.50)</td><td>0.0</td><td>31.11</td><td>(-1.45)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.31</td><td>(-5.43)</td><td>-12.50 k</td><td>-41.34</td><td>(-5.73)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.82</td><td>(-23.82)</td><td>-12.95 k</td><td>-43.20</td><td>(-23.20)</td><td>14.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	31.06	(-1.50)	0.0	31.11	(-1.45)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-44.31	(-5.43)	-12.50 k	-41.34	(-5.73)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.82	(-23.82)	-12.95 k	-43.20	(-23.20)	14.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Ref Offset 26 dB Ref 37.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 34.60 dBm @ 0.0125 MHz <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>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>21.29</td> <td>(-11.27)</td> <td>-1.300 k</td> <td>22.73</td> <td>(-9.83)</td> <td>800.0</td> <td></td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.22</td> <td>(-4.80)</td> <td>-12.30 k</td> <td>-43.05</td> <td>(-4.18)</td> <td>12.50 k</td> <td></td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.75</td> <td>(-20.75)</td> <td>-16.35 k</td> <td>-40.75</td> <td>(-20.75)</td> <td>14.60 k</td> <td></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> <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> <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> <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	21.29	(-11.27)	-1.300 k	22.73	(-9.83)	800.0		5.625 kHz	12.50 kHz	100.0 Hz	-42.22	(-4.80)	-12.30 k	-43.05	(-4.18)	12.50 k		12.50 kHz	60.00 kHz	100.0 Hz	-40.75	(-20.75)	-16.35 k	-40.75	(-20.75)	14.60 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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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 26 dB Ref 37.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 32.08 dBm @ 0.0125 MHz <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>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>31.83</td> <td>(-1.46)</td> <td>0.0</td> <td>31.89</td> <td>(-1.41)</td> <td>50.00</td> <td></td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.11</td> <td>(-1.33)</td> <td>-12.45 k</td> <td>-39.39</td> <td>(-1.61)</td> <td>12.45 k</td> <td></td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.69</td> <td>(-22.69)</td> <td>-14.30 k</td> <td>-42.89</td> <td>(-22.89)</td> <td>14.35 k</td> <td></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> <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> <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> <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	31.83	(-1.46)	0.0	31.89	(-1.41)	50.00		5.625 kHz	12.50 kHz	100.0 Hz	-39.11	(-1.33)	-12.45 k	-39.39	(-1.61)	12.45 k		12.50 kHz	60.00 kHz	100.0 Hz	-42.69	(-22.69)	-14.30 k	-42.89	(-22.89)	14.35 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-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 26 dB Ref 37.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 35.04 dBm @ 0.0125 MHz <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>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>21.86</td> <td>(-11.44)</td> <td>-350.0</td> <td>22.12</td> <td>(-11.18)</td> <td>1.700 k</td> <td></td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.84</td> <td>(-4.60)</td> <td>-12.10 k</td> <td>-41.22</td> <td>(-3.80)</td> <td>12.40 k</td> <td></td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.45</td> <td>(-20.45)</td> <td>-14.00 k</td> <td>-38.84</td> <td>(-18.84)</td> <td>13.15 k</td> <td></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> <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> <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> <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	21.86	(-11.44)	-350.0	22.12	(-11.18)	1.700 k		5.625 kHz	12.50 kHz	100.0 Hz	-39.84	(-4.60)	-12.10 k	-41.22	(-3.80)	12.40 k		12.50 kHz	60.00 kHz	100.0 Hz	-40.45	(-20.45)	-14.00 k	-38.84	(-18.84)	13.15 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 _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 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 26 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 136 MHz Span 120 kHz Total Power Ref 35.36 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</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>35.28</td><td>(-1.58)</td><td>0.0</td><td>35.28</td><td>(-1.58)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.30</td><td>(-6.72)</td><td>-12.50 k</td><td>-43.95</td><td>(-9.37)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.67</td><td>(-20.67)</td><td>-14.75 k</td><td>-40.39</td><td>(-20.39)</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 <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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.28	(-1.58)	0.0	35.28	(-1.58)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.30	(-6.72)	-12.50 k	-43.95	(-9.37)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.67	(-20.67)	-14.75 k	-40.39	(-20.39)	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	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 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 26 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 136 MHz Span 120 kHz Total Power Ref 35.40 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</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>33.41</td><td>(-3.44)</td><td>0.0</td><td>33.41</td><td>(-3.44)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.84</td><td>(-0.62)</td><td>-12.45 k</td><td>-35.96</td><td>(-1.38)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.86</td><td>(-15.86)</td><td>-12.50 k</td><td>-36.01</td><td>(-16.01)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.41	(-3.44)	0.0	33.41	(-3.44)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.84	(-0.62)	-12.45 k	-35.96	(-1.38)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.86	(-15.86)	-12.50 k	-36.01	(-16.01)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask 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 26 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 155 MHz Span 120 kHz Total Power Ref 35.48 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</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>35.45</td><td>(-1.54)</td><td>0.0</td><td>35.45</td><td>(-1.54)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.64</td><td>(-11.38)</td><td>-12.20 k</td><td>-44.66</td><td>(-11.31)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.46</td><td>(-17.46)</td><td>-13.55 k</td><td>-37.50</td><td>(-17.50)</td><td>13.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.45	(-1.54)	0.0	35.45	(-1.54)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.64	(-11.38)	-12.20 k	-44.66	(-11.31)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.46	(-17.46)	-13.55 k	-37.50	(-17.50)	13.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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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 Center Freq: 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 41.0 dBm Center 155 MHz Span 120 kHz 10 dB/div Log <



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq: 136.012500 MHz Ref Offset: 26 dB Ref: 36.0 dBm Center 136 MHz Span 120 kHz Total Power Ref: 30.87 dBm @ 0.0125 MHz <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>30.34</td> <td>(-1.43)</td> <td>0.0</td> <td>30.34</td> <td>(-1.43)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-46.16</td> <td>(-6.50)</td> <td>-12.50 k</td> <td>-48.77</td> <td>(-9.10)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.69</td> <td>(-21.69)</td> <td>-14.30 k</td> <td>-41.81</td> <td>(-21.81)</td> <td>14.35 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.34	(-1.43)	0.0	30.34	(-1.43)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.16	(-6.50)	-12.50 k	-48.77	(-9.10)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.69	(-21.69)	-14.30 k	-41.81	(-21.81)	14.35 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-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq: 136.012500 MHz Ref Offset: 26 dB Ref: 36.0 dBm Center 136 MHz Span 120 kHz Total Power Ref: 30.76 dBm @ 0.0125 MHz <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>28.46</td> <td>(-3.31)</td> <td>0.0</td> <td>28.46</td> <td>(-3.29)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.93</td> <td>(-1.63)</td> <td>-12.45 k</td> <td>-40.41</td> <td>(-0.74)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.28</td> <td>(-21.28)</td> <td>-12.50 k</td> <td>-42.21</td> <td>(-22.21)</td> <td>16.40 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.46	(-3.31)	0.0	28.46	(-3.29)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.93	(-1.63)	-12.45 k	-40.41	(-0.74)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.28	(-21.28)	-12.50 k	-42.21	(-22.21)	16.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq: 155.012500 MHz Ref Offset: 26 dB Ref: 37.0 dBm Center 155 MHz Span 120 kHz Total Power Ref: 31.53 dBm @ 0.0125 MHz <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>31.22</td> <td>(-1.47)</td> <td>0.0</td> <td>31.26</td> <td>(-1.43)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.00</td> <td>(-3.62)</td> <td>-12.45 k</td> <td>-42.17</td> <td>(-3.43)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.06</td> <td>(-22.06)</td> <td>-12.85 k</td> <td>-42.63</td> <td>(-22.63)</td> <td>12.90 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.22	(-1.47)	0.0	31.26	(-1.43)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.00	(-3.62)	-12.45 k	-42.17	(-3.43)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.06	(-22.06)	-12.85 k	-42.63	(-22.63)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 11:02:11 AM Dec 28, 2018 10 dB/div Log Ref Offset 26 dB Ref 37.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 31.86 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 ></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>29.37</td><td>(-3.32)</td><td>0.0</td><td>29.37</td><td>(-3.32)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.93</td><td>(-1.18)</td><td>-12.50 k</td><td>-40.00</td><td>(-1.26)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.52</td><td>(-19.52)</td><td>-12.50 k</td><td>-37.16</td><td>(-17.16)</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> Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	29.37	(-3.32)	0.0	29.37	(-3.32)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.93	(-1.18)	-12.50 k	-40.00	(-1.26)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.52	(-19.52)	-12.50 k	-37.16	(-17.16)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 01:27:12 PM Jan 02, 2019 10 dB/div Log Ref Offset 26 dB Ref 41.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 35.85 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 ></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>35.76</td><td>(-1.60)</td><td>0.0</td><td>35.76</td><td>(-1.60)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.26</td><td>(-7.91)</td><td>-12.40 k</td><td>-41.19</td><td>(-8.07)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.02</td><td>(-18.02)</td><td>-16.65 k</td><td>-37.98</td><td>(-17.98)</td><td>15.10 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	35.76	(-1.60)	0.0	35.76	(-1.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.26	(-7.91)	-12.40 k	-41.19	(-8.07)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.02	(-18.02)	-16.65 k	-37.98	(-17.98)	15.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 01:27:34 PM Jan 02, 2019 10 dB/div Log Ref Offset 26 dB Ref 41.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 35.88 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 ></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>33.90</td><td>(-3.47)</td><td>0.0</td><td>33.90</td><td>(-3.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.27</td><td>(-2.20)</td><td>-12.50 k</td><td>-40.754</td><td>(-2.66)</td><td>7.550 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.98</td><td>(-14.98)</td><td>-12.50 k</td><td>-34.73</td><td>(-14.73)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	33.90	(-3.47)	0.0	33.90	(-3.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.27	(-2.20)	-12.50 k	-40.754	(-2.66)	7.550 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.98	(-14.98)	-12.50 k	-34.73	(-14.73)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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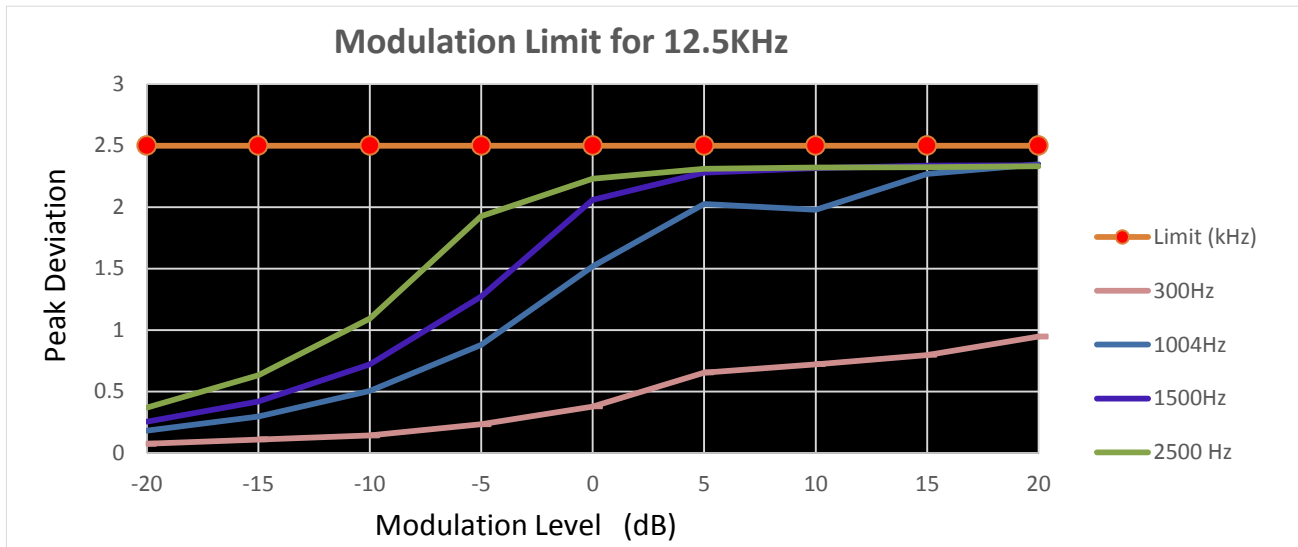
**Appendix D:Modulation Limit**

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	0.075	0.183	0.256	0.37	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.111	0.297	0.42	0.632	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.143	0.505	0.721	1.093	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.234	0.88	1.274	1.927	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.378	1.519	2.06	2.23	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.654	2.024	2.28	2.311	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.722	1.978	2.316	2.322	2.5	PASS
TX-ANH	FM	CH _{M2}	15	0.797	2.27	2.338	2.325	2.5	PASS
TX-ANH	FM	CH _{M2}	20	0.947	2.348	2.34	2.332	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

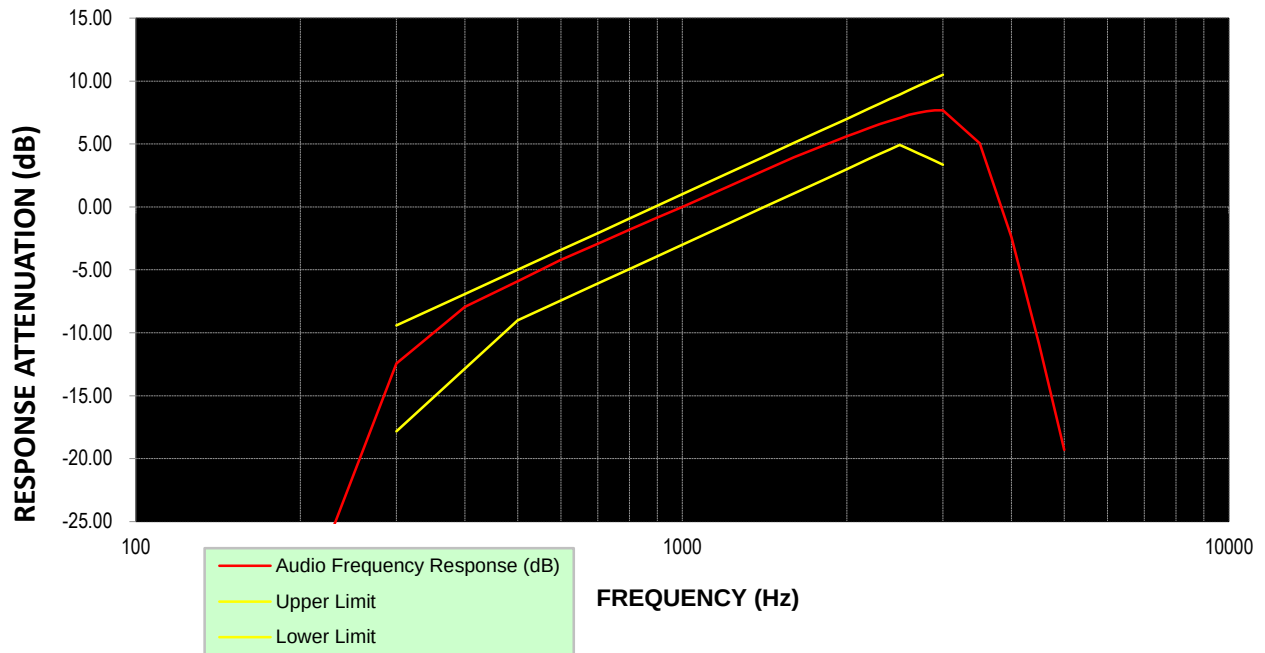
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-32.09	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-32.25	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-12.43	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-7.94	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-5.90	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.20	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-2.94	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-1.81	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.84	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	0.01	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.51	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.81	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.93	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.83	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.62	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.96	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.29	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	6.58	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	6.83	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	7.08	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	7.31	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	7.48	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	7.60	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.68	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	7.68	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	5.06	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-2.40	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-10.96	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-19.31	-	-	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	-0.079	<u>0.044</u>	-0.110	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.066	0.035	-0.094	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.059	0.028	-0.085	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.043	0.021	-0.063	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.034	0.011	-0.048	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.027	-0.003	-0.039	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.038	0.009	-0.059	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.046	0.018	-0.069	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.053	0.035	-0.079	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.074	-0.060	-0.062	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.060	-0.053	-0.055	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.054	-0.045	-0.042	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.041	-0.035	-0.037	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.034	-0.026	-0.027	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.025	-0.021	-0.021	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.035	-0.031	-0.032	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.045	-0.039	-0.037	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.033	-0.028	-0.029	±5.0	PASS
TX-ANH	FM	V _N	-30	<u>0.252</u>	0.246	0.247	±5.0	PASS
TX-ANH	FM	V _N	-20	0.246	0.235	0.236	±5.0	PASS
TX-ANH	FM	V _N	-10	0.233	0.225	0.227	±5.0	PASS
TX-ANH	FM	V _N	0	0.226	0.219	0.221	±5.0	PASS
TX-ANH	FM	V _N	10	0.220	0.217	0.214	±5.0	PASS
TX-ANH	FM	V _N	20	0.208	0.203	0.205	±5.0	PASS
TX-ANH	FM	V _N	30	0.220	0.213	0.218	±5.0	PASS
TX-ANH	FM	V _N	40	0.227	0.222	0.221	±5.0	PASS
TX-ANH	FM	V _N	55	0.236	0.227	0.232	±5.0	PASS
TX-ANL	FM	V _N	-30	0.249	0.247	0.233	±5.0	PASS
TX-ANL	FM	V _N	-20	0.245	0.245	0.227	±5.0	PASS
TX-ANL	FM	V _N	-10	0.235	0.237	0.224	±5.0	PASS
TX-ANL	FM	V _N	0	0.234	0.226	0.217	±5.0	PASS
TX-ANL	FM	V _N	10	0.221	0.218	0.212	±5.0	PASS
TX-ANL	FM	V _N	20	0.213	0.210	0.200	±5.0	PASS
TX-ANL	FM	V _N	30	0.225	0.226	0.216	±5.0	PASS
TX-ANL	FM	V _N	40	0.231	0.233	0.223	±5.0	PASS
TX-ANL	FM	V _N	55	0.241	0.235	0.227	±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	-0.027	-0.003	-0.039	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.076	-0.035	-0.074	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.047	-0.027	-0.061	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.071	-0.031	-0.088	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.056	-0.045	-0.072	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.045	-0.028	-0.062	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.208	0.203	0.205	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.245	0.242	0.240	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.227	0.223	0.230	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.245	0.253	0.248	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.241	0.233	0.234	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.231	0.222	0.229	±5.0	PASS

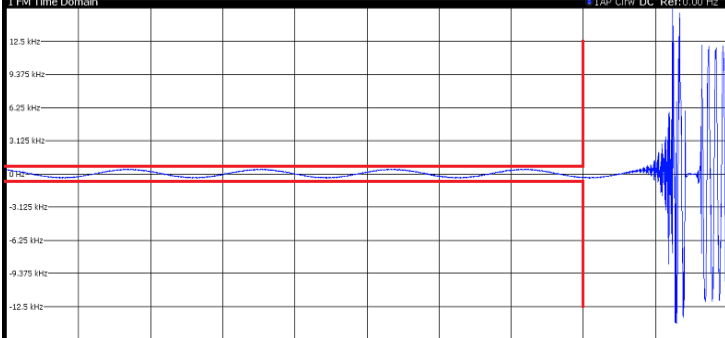


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB ATT 40 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG:IPK(17MHz) YIG Bypass 1 FM Time Domain CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 30.13 dBm</td><td colspan="2">Carrier Offset 8.15 Hz</td></tr><tr><td>FM</td><td>+Peak 12.398 kHz</td><td>-Peak -17.03 kHz</td><td>+Peak/2 14.714 kHz</td></tr><tr><td></td><td></td><td>RMS 2.7457 kHz</td><td></td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:18:27 Date: 29.0 EC.2018 09:18:26 OFF~ON	Carrier Power 30.13 dBm		Carrier Offset 8.15 Hz		FM	+Peak 12.398 kHz	-Peak -17.03 kHz	+Peak/2 14.714 kHz			RMS 2.7457 kHz	
Carrier Power 30.13 dBm		Carrier Offset 8.15 Hz													
FM	+Peak 12.398 kHz	-Peak -17.03 kHz	+Peak/2 14.714 kHz												
		RMS 2.7457 kHz													
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB ATT 40 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG:IPK(17MHz) YIG Bypass 1 FM Time Domain CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 30.11 dBm</td><td colspan="2">Carrier Offset 12.71 Hz</td></tr><tr><td>FM</td><td>+Peak 16.484 kHz</td><td>-Peak -18.544 kHz</td><td>+Peak/2 17.514 kHz</td></tr><tr><td></td><td></td><td>RMS 2.1417 kHz</td><td></td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:21:33 Date: 29.0 EC.2018 09:21:33 ON-OFF	Carrier Power 30.11 dBm		Carrier Offset 12.71 Hz		FM	+Peak 16.484 kHz	-Peak -18.544 kHz	+Peak/2 17.514 kHz			RMS 2.1417 kHz	
Carrier Power 30.11 dBm		Carrier Offset 12.71 Hz													
FM	+Peak 16.484 kHz	-Peak -18.544 kHz	+Peak/2 17.514 kHz												
		RMS 2.1417 kHz													
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB ATT 40 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG:IPK(17MHz) YIG Bypass 1 FM Time Domain CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 30.14 dBm</td><td colspan="2">Carrier Offset 9.20 Hz</td></tr><tr><td>FM</td><td>+Peak 12.228 kHz</td><td>-Peak -12.213 kHz</td><td>+Peak/2 12.22 kHz</td></tr><tr><td></td><td></td><td>RMS 2.7414 kHz</td><td></td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:27:53 Date: 29.0 EC.2018 09:27:53 OFF~ON	Carrier Power 30.14 dBm		Carrier Offset 9.20 Hz		FM	+Peak 12.228 kHz	-Peak -12.213 kHz	+Peak/2 12.22 kHz			RMS 2.7414 kHz	
Carrier Power 30.14 dBm		Carrier Offset 9.20 Hz													
FM	+Peak 12.228 kHz	-Peak -12.213 kHz	+Peak/2 12.22 kHz												
		RMS 2.7414 kHz													

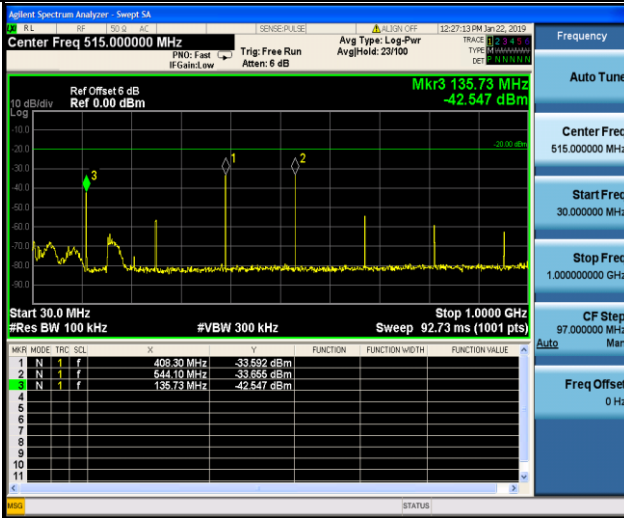
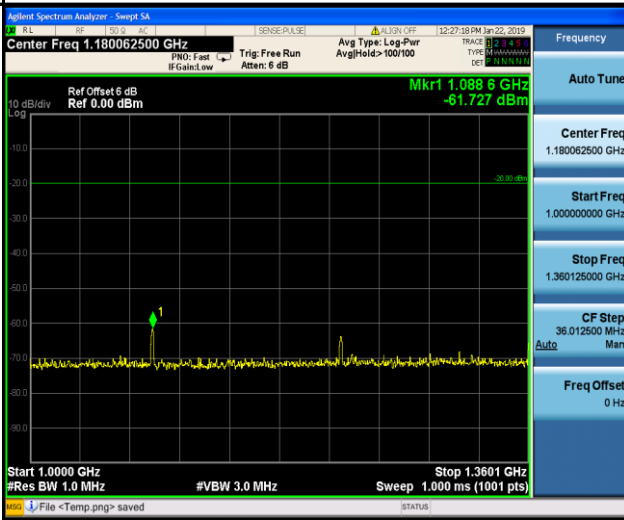
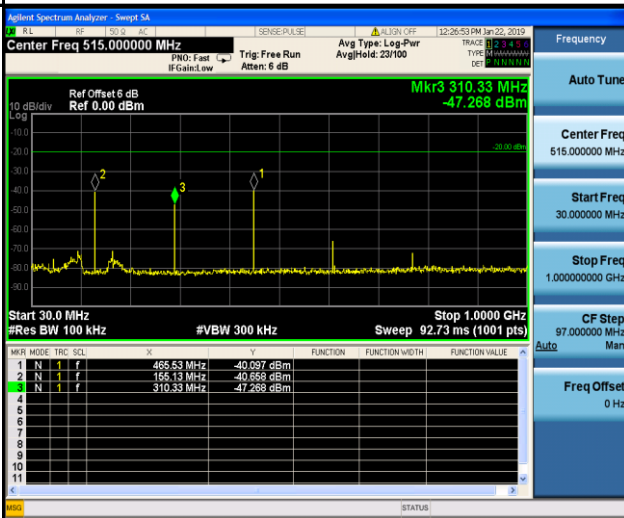


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB * Att 40 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG: IFF (17MHz) YIG Bypass 1 FM Time Domain 1AP Clw DC Ref:0.00 Hz  CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><th></th><th>Carrier Power</th><th>30.12 dBm</th><th></th><th>Carrier Offset</th><th>14.07 Hz</th></tr><tr><td>FM</td><td>+Peak</td><td>15.652 kHz</td><td>-Peak</td><td>-14.084 kHz</td><td>+Peak/2</td><td>14.868 kHz</td><td>RMS</td><td>2.1269 kHz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:26:35 Date: 29.0 EC 2018 09:28:35 ON-OFF		Carrier Power	30.12 dBm		Carrier Offset	14.07 Hz	FM	+Peak	15.652 kHz	-Peak	-14.084 kHz	+Peak/2	14.868 kHz	RMS	2.1269 kHz	Mod. Freq.	SINAD	THD
	Carrier Power	30.12 dBm		Carrier Offset	14.07 Hz																
FM	+Peak	15.652 kHz	-Peak	-14.084 kHz	+Peak/2	14.868 kHz	RMS	2.1269 kHz	Mod. Freq.	SINAD	THD										

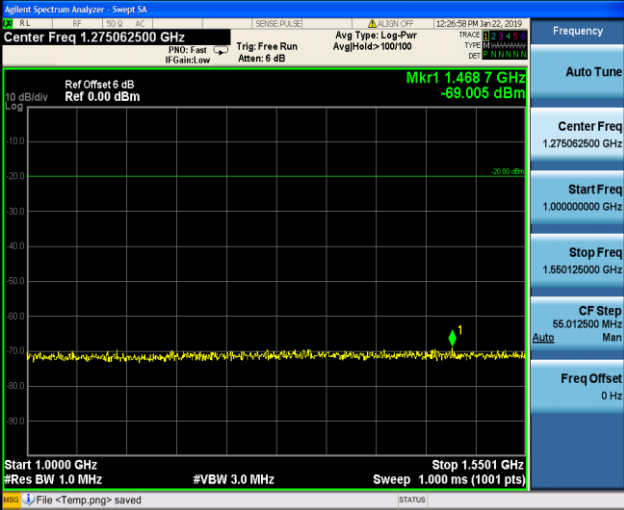
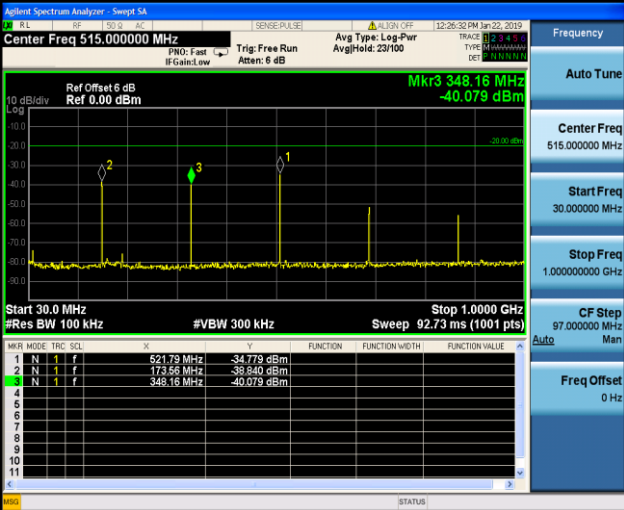
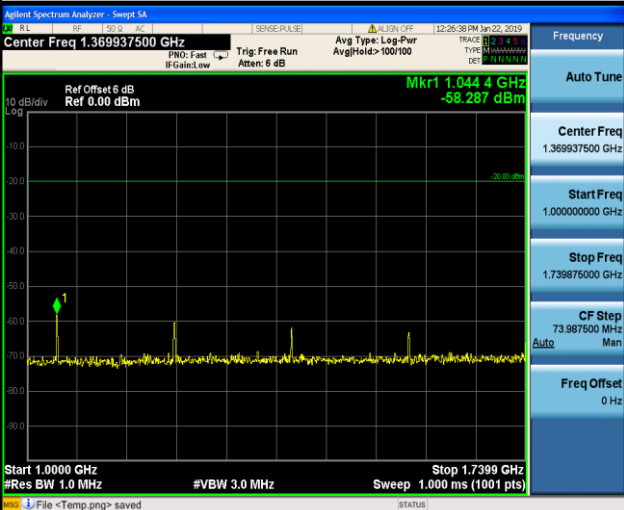


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _L	<table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>408.30 MHz</td><td>-33.592 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>844.10 MHz</td><td>-33.855 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>135.73 MHz</td><td>-42.547 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	408.30 MHz	-33.592 dBm				2	N	1	f	844.10 MHz	-33.855 dBm				3	N	1	f	135.73 MHz	-42.547 dBm			
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	408.30 MHz	-33.592 dBm																																		
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3	N	1	f	135.73 MHz	-42.547 dBm																																		
TX-DNH	4FSK	CH _L	<table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.0886 GHz</td><td>-61.727 dBm</td><td></td><td></td><td></td></tr></table> 1GHz~10th Harmonic	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.0886 GHz	-61.727 dBm																					
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	1.0886 GHz	-61.727 dBm																																		
TX-DNH	4FSK	CH _{M2}	<table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>465.53 MHz</td><td>-40.297 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>155.13 MHz</td><td>-40.559 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>310.33 MHz</td><td>-47.268 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	465.53 MHz	-40.297 dBm				2	N	1	f	155.13 MHz	-40.559 dBm				3	N	1	f	310.33 MHz	-47.268 dBm			
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	465.53 MHz	-40.297 dBm																																		
2	N	1	f	155.13 MHz	-40.559 dBm																																		
3	N	1	f	310.33 MHz	-47.268 dBm																																		

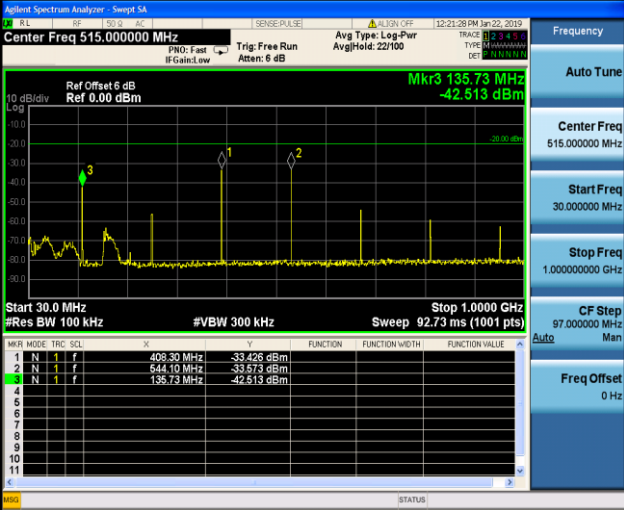
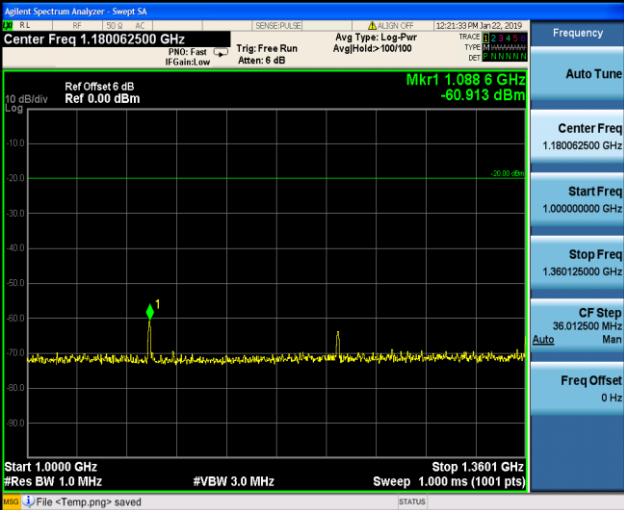
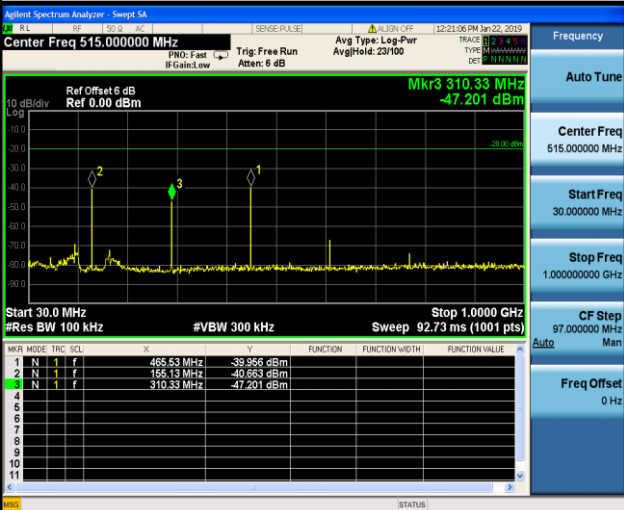


Appendix I:Spurious Emission On Antenna Port

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



Appendix I:Spurious Emission On Antenna Port

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



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 1.275062500 GHz Ref Offset 6 dB Ref 0.00 dBm Mkr1 1.468 2 GHz -68.839 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.5501 GHz Frequency Auto Tune Center Freq 1.275062500 GHz Start Freq 1.000000000 GHz Stop Freq 1.550125000 GHz CF Step 55.012500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 6 dB Ref 0.00 dBm Mkr3 348.16 MHz -40.513 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Sweep SA Center Freq 1.369937500 GHz Ref Offset 6 dB Ref 0.00 dBm Mkr1 1.044 4 GHz -60.716 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.7399 GHz Frequency Auto Tune Center Freq 1.369937500 GHz Start Freq 1.000000000 GHz Stop Freq 1.739875000 GHz CF Step 73.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic

----End of Report----