

**Appendix A:Maximum Transmitter Power**

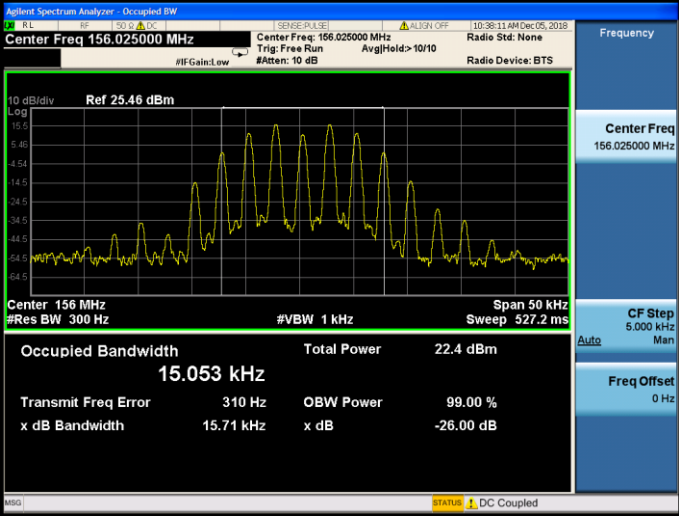
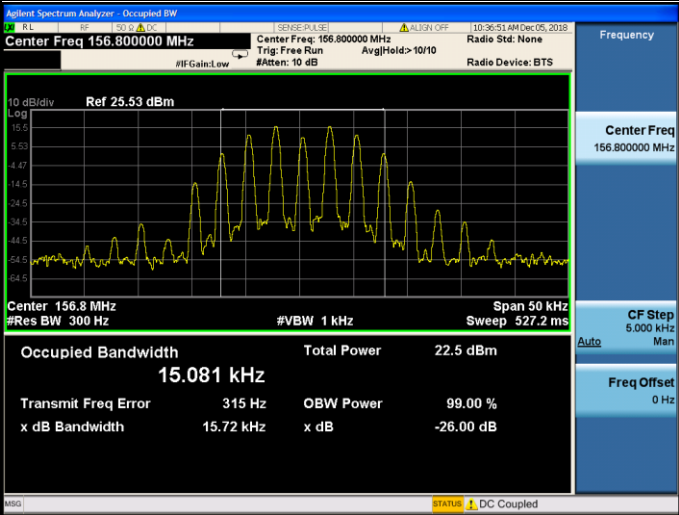
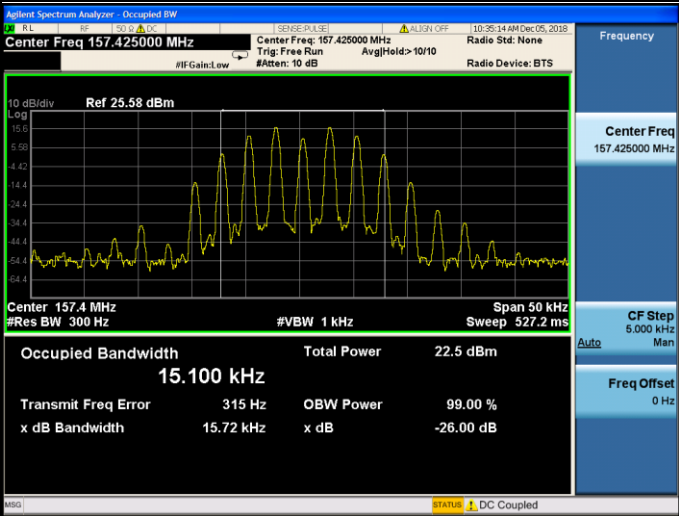
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-AWH	FM	CH _L	34.7	2.96	3.00	-1.4	±20	PASS
TX-AWH	FM	CH _M	34.7	2.96	3.00	-1.2	±20	PASS
TX-AWH	FM	CH _H	34.7	2.96	3.00	-1.2	±20	PASS
TX-AWL	FM	CH _L	27.2	0.52	0.50	3.8	±20	PASS
TX-AWL	FM	CH _M	27.0	0.50	0.50	0.9	±20	PASS
TX-AWL	FM	CH _H	27.0	0.50	0.50	0.7	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-AWH	FM	CH _L	15.053	15.710	≤20	PASS
TX-AWH	FM	CH _M	15.081	15.710	≤20	PASS
TX-AWH	FM	CH _H	<u>15.100</u>	15.720	≤20	PASS
TX-AWL	FM	CH _L	15.074	15.710	≤20	PASS
TX-AWL	FM	CH _M	15.106	15.730	≤20	PASS
TX-AWL	FM	CH _H	<u>15.126</u>	15.730	≤20	PASS

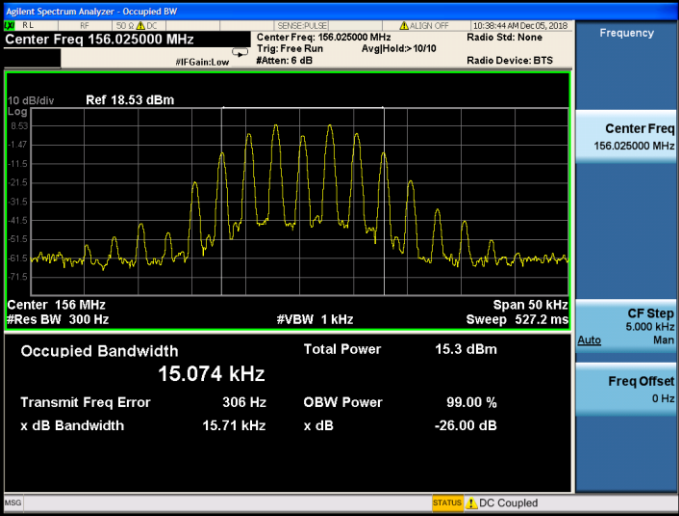
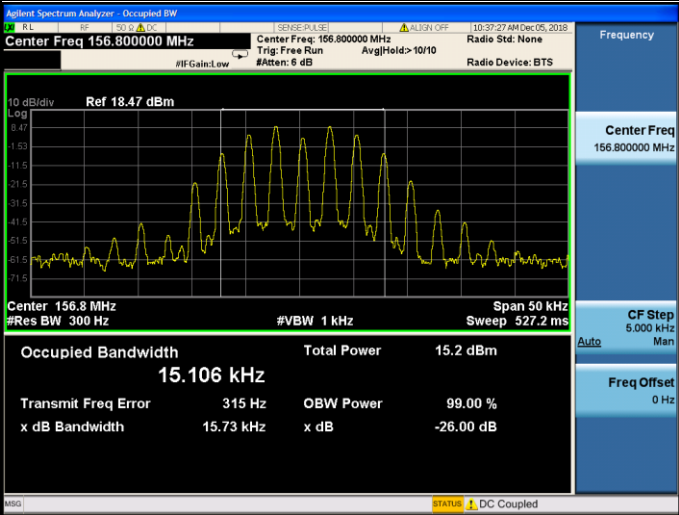
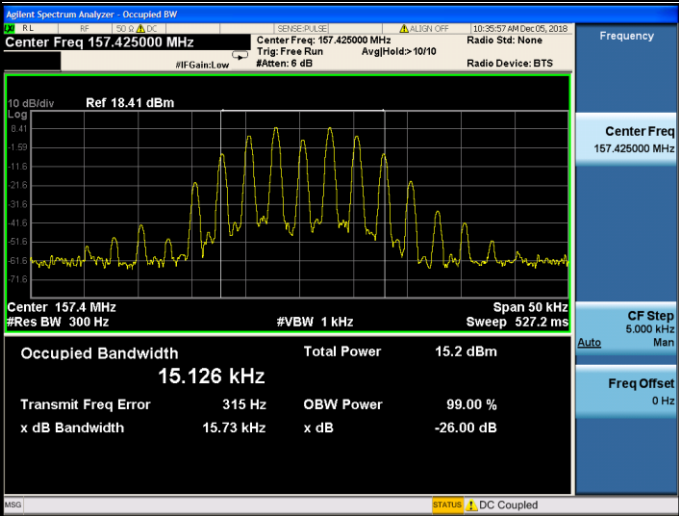


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 156.025000 MHz Center Freq 156.025000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 25.46 dBm 10 dB/div Log Center 156 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms Occupied Bandwidth 15.053 kHz Total Power 22.4 dBm Transmit Freq Error 310 Hz OBW Power 99.00 % x dB Bandwidth 15.71 kHz x dB -26.00 dB STATUS DC Coupled
TX-AWH	FM	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 156.800000 MHz Center Freq 156.800000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 25.53 dBm 10 dB/div Log Center 156.8 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms Occupied Bandwidth 15.081 kHz Total Power 22.5 dBm Transmit Freq Error 315 Hz OBW Power 99.00 % x dB Bandwidth 15.72 kHz x dB -26.00 dB STATUS DC Coupled
TX-AWH	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 157.425000 MHz Center Freq 157.425000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 25.58 dBm 10 dB/div Log Center 157.4 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms Occupied Bandwidth 15.100 kHz Total Power 22.5 dBm Transmit Freq Error 315 Hz OBW Power 99.00 % x dB Bandwidth 15.72 kHz x dB -26.00 dB STATUS DC Coupled



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Trig: Free Run #Att: 6 dB Radio Std: None Radio Device: BTS Ref 18.53 dBm 10 dB/div Log Center 156 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms Occupied Bandwidth 15.074 kHz Total Power 15.3 dBm Transmit Freq Error 306 Hz OBW Power 99.00 % x dB Bandwidth 15.71 kHz x dB -26.00 dB Frequency Center Freq 156.025000 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-AWL	FM	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Trig: Free Run #Att: 6 dB Radio Std: None Radio Device: BTS Ref 18.47 dBm 10 dB/div Log Center 156.8 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms Occupied Bandwidth 15.106 kHz Total Power 15.2 dBm Transmit Freq Error 315 Hz OBW Power 99.00 % x dB Bandwidth 15.73 kHz x dB -26.00 dB Frequency Center Freq 156.800000 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-AWL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Trig: Free Run #Att: 6 dB Radio Std: None Radio Device: BTS Ref 18.41 dBm 10 dB/div Log Center 157.4 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms Occupied Bandwidth 15.126 kHz Total Power 15.2 dBm Transmit Freq Error 315 Hz OBW Power 99.00 % x dB Bandwidth 15.73 kHz x dB -26.00 dB Frequency Center Freq 157.425000 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 26 dB Ref 27.0 dBm 10 dB/div Log 7.0 3.00 23.0 43.0 63.0 Center 156 MHz Span 120 kHz Total Power Ref 21.13 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>10.00 kHz</td><td>300.0 Hz</td><td>-1.321</td><td>(-24.24)</td><td>0.0</td><td>21.50</td><td>(-1.42)</td><td>359.3</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-46.29</td><td>(-42.71)</td><td>-10.00 k</td><td>-43.48</td><td>(-39.90)</td><td>10.90 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-47.73</td><td>(-34.16)</td><td>-20.37 k</td><td>-48.54</td><td>(-34.96)</td><td>21.33 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-53.34</td><td>(-40.34)</td><td>-50.95 k</td><td>-54.97</td><td>(-41.97)</td><td>54.36 k</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 B.state> recalled (STATUS) Frequency Center Freq 156.025000 MHz CF Step 12.000 kHz Auto 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	10.00 kHz	300.0 Hz	-1.321	(-24.24)	0.0	21.50	(-1.42)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-46.29	(-42.71)	-10.00 k	-43.48	(-39.90)	10.90 k	20.00 kHz	50.00 kHz	300.0 Hz	-47.73	(-34.16)	-20.37 k	-48.54	(-34.96)	21.33 k	50.00 kHz	60.00 kHz	300.0 Hz	-53.34	(-40.34)	-50.95 k	-54.97	(-41.97)	54.36 k	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-AWH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 26 dB Ref 27.0 dBm 10 dB/div Log 7.0 3.00 23.0 43.0 63.0 Center 156 MHz Span 120 kHz Total Power Ref 21.10 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>10.00 kHz</td><td>300.0 Hz</td><td>16.72</td><td>(-6.20)</td><td>-2.156 k</td><td>16.65</td><td>(-6.27)</td><td>2.754 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-21.71</td><td>(-18.13)</td><td>-10.00 k</td><td>-13.13</td><td>(-9.55)</td><td>10.30 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-51.76</td><td>(-38.18)</td><td>-24.57 k</td><td>-52.53</td><td>(-38.95)</td><td>20.37 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-57.00</td><td>(-44.00)</td><td>-53.23 k</td><td>-57.83</td><td>(-44.83)</td><td>52.57 k</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 156.025000 MHz CF Step 12.000 kHz Auto 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	10.00 kHz	300.0 Hz	16.72	(-6.20)	-2.156 k	16.65	(-6.27)	2.754 k	10.00 kHz	20.00 kHz	300.0 Hz	-21.71	(-18.13)	-10.00 k	-13.13	(-9.55)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-51.76	(-38.18)	-24.57 k	-52.53	(-38.95)	20.37 k	50.00 kHz	60.00 kHz	300.0 Hz	-57.00	(-44.00)	-53.23 k	-57.83	(-44.83)	52.57 k	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-AWH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 26 dB Ref 27.0 dBm 10 dB/div Log 7.0 3.00 23.0 43.0 63.0 Center 156.8 MHz Span 120 kHz Total Power Ref 21.35 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>10.00 kHz</td><td>300.0 Hz</td><td>-1.036</td><td>(-24.05)</td><td>0.0</td><td>21.51</td><td>(-1.51)</td><td>239.5</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-43.96</td><td>(-40.48)</td><td>-10.96 k</td><td>-46.38</td><td>(-42.89)</td><td>16.29 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-50.20</td><td>(-36.72)</td><td>-20.25 k</td><td>-48.15</td><td>(-34.67)</td><td>21.15 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-55.41</td><td>(-42.41)</td><td>-55.86 k</td><td>-51.79</td><td>(-38.79)</td><td>54.96 k</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 B.state> recalled (STATUS) Frequency Center Freq 156.800000 MHz CF Step 12.000 kHz Auto 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	10.00 kHz	300.0 Hz	-1.036	(-24.05)	0.0	21.51	(-1.51)	239.5	10.00 kHz	20.00 kHz	300.0 Hz	-43.96	(-40.48)	-10.96 k	-46.38	(-42.89)	16.29 k	20.00 kHz	50.00 kHz	300.0 Hz	-50.20	(-36.72)	-20.25 k	-48.15	(-34.67)	21.15 k	50.00 kHz	60.00 kHz	300.0 Hz	-55.41	(-42.41)	-55.86 k	-51.79	(-38.79)	54.96 k	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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 27.0 dBm 10 dB/div Log 7.0 3.00 13.0 23.0 33.0 43.0 53.0 63.0 10.00 kHz 20.00 kHz 50.00 kHz 60.00 kHz 8.000 MHz 12.50 MHz 15.00 MHz 300.0 Hz 300.0 Hz 300.0 Hz 300.0 Hz 1.000 MHz 1.000 MHz 16.78 -21.38 -52.98 -57.10 — — (-6.23) (-17.89) (-39.49) (-44.10) (—) (—) 16.77 -10.00 k -50.49 -50.77 k — — (-6.24) (-9.13) (-37.01) (-43.67) (—) (—) 2.874 k 10.30 k 20.37 k 52.93 k — — Center 156.8 MHz Span 120 kHz Total Power Ref 21.18 dBm/0.0125 MHz File <Temp.png> saved STATUS Frequency Center Freq 156.800000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz
TX-AWH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 27.0 dBm 10 dB/div Log 7.0 3.00 13.0 23.0 33.0 43.0 53.0 63.0 10.00 kHz 20.00 kHz 50.00 kHz 60.00 kHz 8.000 MHz 12.50 MHz 15.00 MHz 300.0 Hz 300.0 Hz 300.0 Hz 300.0 Hz 1.000 MHz 1.000 MHz -6.230 -48.98 -50.34 -52.03 — — (-29.29) (-43.53) (-36.89) (-39.03) (—) (—) 0.0 -19.47 k -49.30 -57.96 k — — (-1.43) (-42.38) (-35.86) (-40.79) (—) (—) 359.3 13.42 k 24.75 k 55.14 k — — Center 157.4 MHz Span 120 kHz Total Power Ref 21.32 dBm/0.0125 MHz File <MASK B.state> recalled STATUS Frequency Center Freq 157.425000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz
TX-AWH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 27.0 dBm 10 dB/div Log 7.0 3.00 13.0 23.0 33.0 43.0 53.0 63.0 10.00 kHz 20.00 kHz 50.00 kHz 60.00 kHz 8.000 MHz 12.50 MHz 15.00 MHz 16.82 -20.88 -53.33 -56.69 — — (-6.24) (-17.44) (-39.89) (-43.69) (—) (—) 16.79 -10.00 k -51.19 -55.38 k — — (-6.27) (-8.88) (-37.75) (-43.47) (—) (—) 2.874 k 10.30 k 20.37 k 54.54 k — — Center 157.4 MHz Span 120 kHz Total Power Ref 21.21 dBm/0.0125 MHz File <Temp.png> saved STATUS Frequency Center Freq 157.425000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 20.0 dBm Center 156 MHz Span 120 kHz Total Power Ref 14.08 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>10.00 kHz</td><td>300.0 Hz</td><td>-9.438</td><td>(-25.53)</td><td>0.0</td><td>14.37</td><td>(-1.72)</td><td>359.3</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-47.98</td><td>(-37.57)</td><td>-10.00 k</td><td>-52.03</td><td>(-41.62)</td><td>13.84 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-52.49</td><td>(-32.08)</td><td>-27.75 k</td><td>-52.26</td><td>(-31.85)</td><td>23.13 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-55.43</td><td>(-42.43)</td><td>-50.53 k</td><td>-54.88</td><td>(-41.88)</td><td>54.96 k</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> Frequency Center Freq 156.025000 MHz CF Step 12.000 kHz Auto 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	10.00 kHz	300.0 Hz	-9.438	(-25.53)	0.0	14.37	(-1.72)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-47.98	(-37.57)	-10.00 k	-52.03	(-41.62)	13.84 k	20.00 kHz	50.00 kHz	300.0 Hz	-52.49	(-32.08)	-27.75 k	-52.26	(-31.85)	23.13 k	50.00 kHz	60.00 kHz	300.0 Hz	-55.43	(-42.43)	-50.53 k	-54.88	(-41.88)	54.96 k	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	10.00 kHz	300.0 Hz	-9.438	(-25.53)	0.0	14.37	(-1.72)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-47.98	(-37.57)	-10.00 k	-52.03	(-41.62)	13.84 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-52.49	(-32.08)	-27.75 k	-52.26	(-31.85)	23.13 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-55.43	(-42.43)	-50.53 k	-54.88	(-41.88)	54.96 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 20.0 dBm Center 156 MHz Span 120 kHz Total Power Ref 14.00 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>10.00 kHz</td><td>300.0 Hz</td><td>9.650</td><td>(-6.44)</td><td>-2.156 k</td><td>9.580</td><td>(-6.51)</td><td>2.814 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-28.23</td><td>(-17.62)</td><td>-10.00 k</td><td>-19.60</td><td>(-9.19)</td><td>10.30 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-56.86</td><td>(-36.45)</td><td>-36.80 k</td><td>-54.63</td><td>(-34.21)</td><td>20.43 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-58.73</td><td>(-45.73)</td><td>-55.26 k</td><td>-58.90</td><td>(-45.90)</td><td>51.49 k</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> Frequency Center Freq 156.025000 MHz CF Step 12.000 kHz Auto 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	10.00 kHz	300.0 Hz	9.650	(-6.44)	-2.156 k	9.580	(-6.51)	2.814 k	10.00 kHz	20.00 kHz	300.0 Hz	-28.23	(-17.62)	-10.00 k	-19.60	(-9.19)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-56.86	(-36.45)	-36.80 k	-54.63	(-34.21)	20.43 k	50.00 kHz	60.00 kHz	300.0 Hz	-58.73	(-45.73)	-55.26 k	-58.90	(-45.90)	51.49 k	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-AWL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Trig: Free Run IF Gain: Low #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 20.0 dBm Center 156.8 MHz Span 120 kHz Total Power Ref 14.13 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>10.00 kHz</td><td>300.0 Hz</td><td>-10.29</td><td>(-26.31)</td><td>0.0</td><td>14.34</td><td>(-1.68)</td><td>359.3</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-52.88</td><td>(-42.40)</td><td>-13.24 k</td><td>-52.00</td><td>(-41.52)</td><td>10.06 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-50.49</td><td>(-30.01)</td><td>-20.97 k</td><td>-54.23</td><td>(-33.75)</td><td>42.01 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-54.69</td><td>(-41.69)</td><td>-52.69 k</td><td>-54.61</td><td>(-41.61)</td><td>51.49 k</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> Frequency Center Freq 156.800000 MHz CF Step 12.000 kHz Auto 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	10.00 kHz	300.0 Hz	-10.29	(-26.31)	0.0	14.34	(-1.68)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-52.88	(-42.40)	-13.24 k	-52.00	(-41.52)	10.06 k	20.00 kHz	50.00 kHz	300.0 Hz	-50.49	(-30.01)	-20.97 k	-54.23	(-33.75)	42.01 k	50.00 kHz	60.00 kHz	300.0 Hz	-54.69	(-41.69)	-52.69 k	-54.61	(-41.61)	51.49 k	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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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-AWL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 26 dB Ref 20.0 dBm 10 dB/div Log <

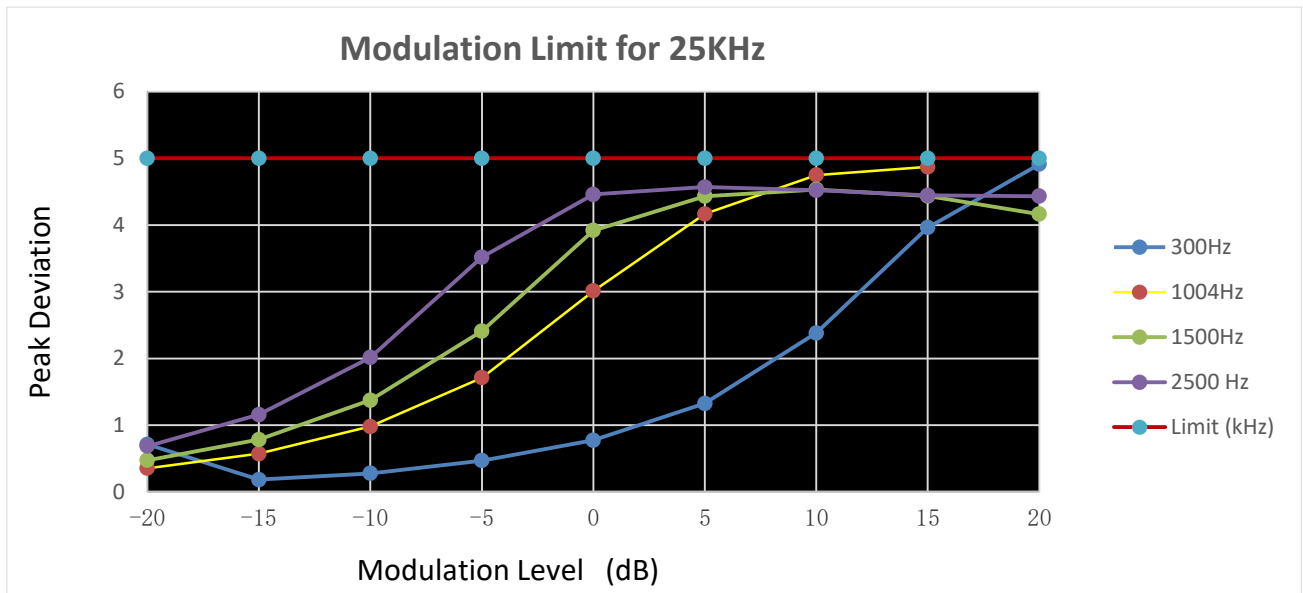
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-AWH	FM	CH _M	-20	0.71	0.353	0.473	0.685	5	PASS
TX-AWH	FM	CH _M	-15	0.184	0.571	0.784	1.157	5	PASS
TX-AWH	FM	CH _M	-10	0.276	0.981	1.374	2.015	5	PASS
TX-AWH	FM	CH _M	-5	0.469	1.712	2.41	3.519	5	PASS
TX-AWH	FM	CH _M	0	0.774	3.013	3.918	4.459	5	PASS
TX-AWH	FM	CH _M	5	1.326	4.166	4.432	4.569	5	PASS
TX-AWH	FM	CH _M	10	2.382	4.749	4.534	4.521	5	PASS
TX-AWH	FM	CH _M	15	3.961	4.871	4.434	4.444	5	PASS
TX-AWH	FM	CH _M	20	4.912	4.847	4.163	4.431	5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



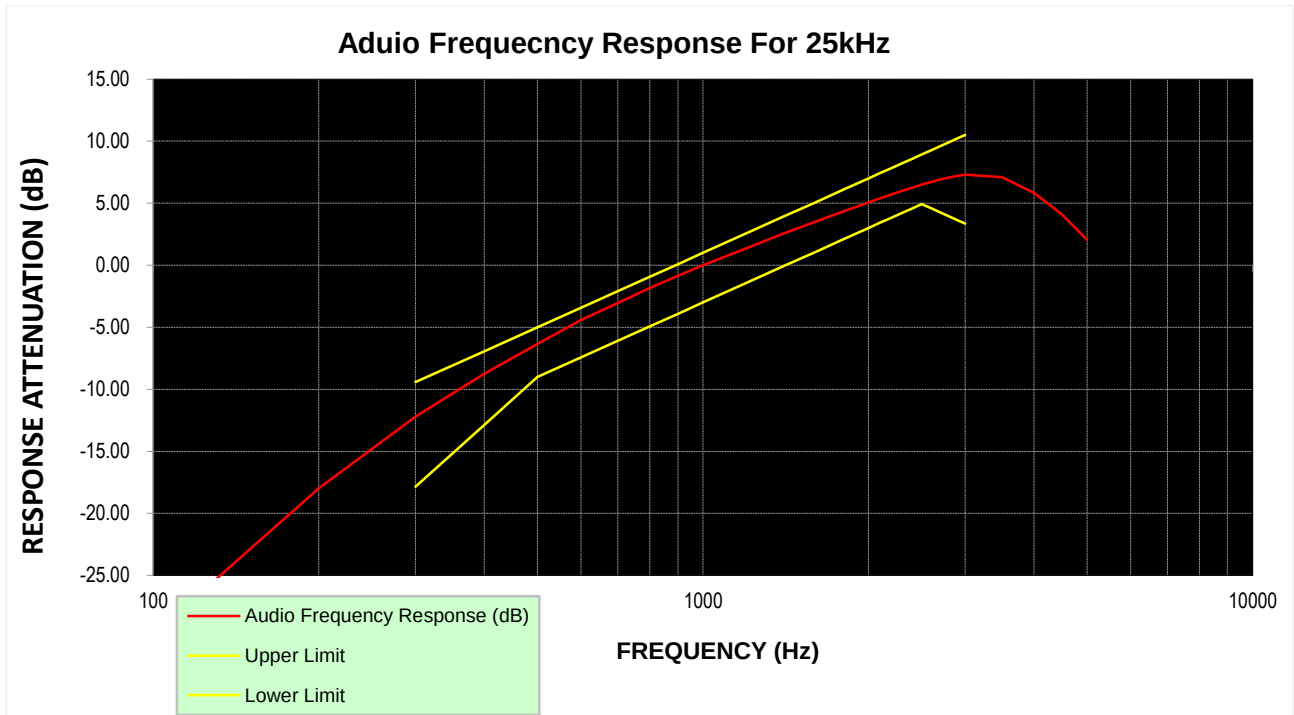
**Appendix E:Aduio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH _M	100	-29.77			PASS
TX-AWH	FM	CH _M	200	-17.99			PASS
TX-AWH	FM	CH _M	300	-12.19	-17.84	-9.42	PASS
TX-AWH	FM	CH _M	400	-8.74	-12.86	-6.93	PASS
TX-AWH	FM	CH _M	500	-6.36	-9.00	-5.00	PASS
TX-AWH	FM	CH _M	600	-4.42	-7.42	-3.42	PASS
TX-AWH	FM	CH _M	700	-3.05	-6.09	-2.09	PASS
TX-AWH	FM	CH _M	800	-1.82	-4.93	-0.93	PASS
TX-AWH	FM	CH _M	900	-0.86	-3.91	0.09	PASS
TX-AWH	FM	CH _M	1000	0.01	-3.00	1.00	PASS
TX-AWH	FM	CH _M	1200	1.38	-1.42	2.58	PASS
TX-AWH	FM	CH _M	1400	2.55	-0.09	3.91	PASS
TX-AWH	FM	CH _M	1600	3.51	1.07	5.07	PASS
TX-AWH	FM	CH _M	1800	4.33	2.09	6.09	PASS
TX-AWH	FM	CH _M	2000	5.07	3.00	7.00	PASS
TX-AWH	FM	CH _M	2100	5.40	3.42	7.42	PASS
TX-AWH	FM	CH _M	2200	5.70	3.83	7.83	PASS
TX-AWH	FM	CH _M	2300	5.99	4.21	8.21	PASS
TX-AWH	FM	CH _M	2400	6.25	4.58	8.58	PASS
TX-AWH	FM	CH _M	2500	6.50	4.93	8.93	PASS
TX-AWH	FM	CH _M	2600	6.72	4.59	9.27	PASS
TX-AWH	FM	CH _M	2700	6.91	4.27	9.60	PASS
TX-AWH	FM	CH _M	2800	7.07	3.95	9.91	PASS
TX-AWH	FM	CH _M	2900	7.19	3.65	10.22	PASS
TX-AWH	FM	CH _M	3000	7.29	3.35	10.51	PASS
TX-AWH	FM	CH _M	3500	7.09			PASS
TX-AWH	FM	CH _M	4000	5.84			PASS
TX-AWH	FM	CH _M	4500	4.07			PASS
TX-AWH	FM	CH _M	5000	2.04			PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT



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

**Appendix F:Audio Low Pass Filter Response**

Operation Mode	Modulation Type	Test Channel	Frequency (KHz)	dB relative to 1 KHz	Limit	Result
TX-AWH	FM	CH _M	1	-16.67	0.00	PASS
TX-AWH	FM	CH _M	3	-24.98	0.00	PASS
TX-AWH	FM	CH _M	4	-38.86	-7.50	PASS
TX-AWH	FM	CH _M	5	-52.74	-13.30	PASS
TX-AWH	FM	CH _M	6	-57.69	-18.10	PASS
TX-AWH	FM	CH _M	8	-58.89	-25.60	PASS
TX-AWH	FM	CH _M	10	-58.82	-31.40	PASS
TX-AWH	FM	CH _M	15	-58.87	-41.90	PASS
TX-AWH	FM	CH _M	20	-58.83	-50.00	PASS
TX-AWH	FM	CH _M	30	-58.79	-50.00	PASS
TX-AWH	FM	CH _M	40	-58.79	-50.00	PASS
TX-AWH	FM	CH _M	50	-58.79	-50.00	PASS
TX-AWH	FM	CH _M	60	-58.79	-50.00	PASS
TX-AWH	FM	CH _M	70	-58.79	-50.00	PASS
TX-AWH	FM	CH _M	80	-58.79	-50.00	PASS
TX-AWH	FM	CH _M	90	-58.79	-50.00	PASS
TX-AWH	FM	CH _M	100	-58.79	-50.00	PASS



Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _M	dB relative to 1 KHz 10.00 0.00 -10.00 -20.00 -30.00 -40.00 -50.00 -60.00 -70.00 1 10 100 FREQUENCY (KHz) — dB relative to 1 KHz — Limit

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

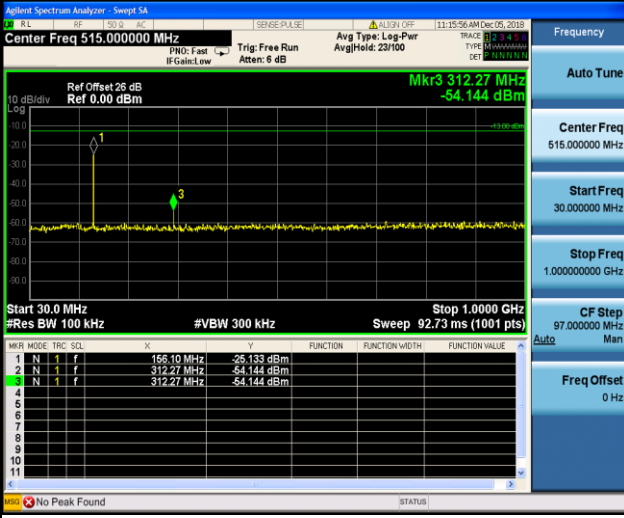
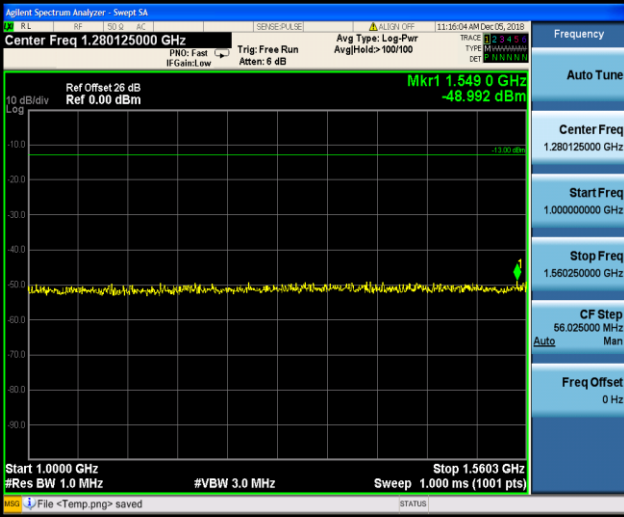
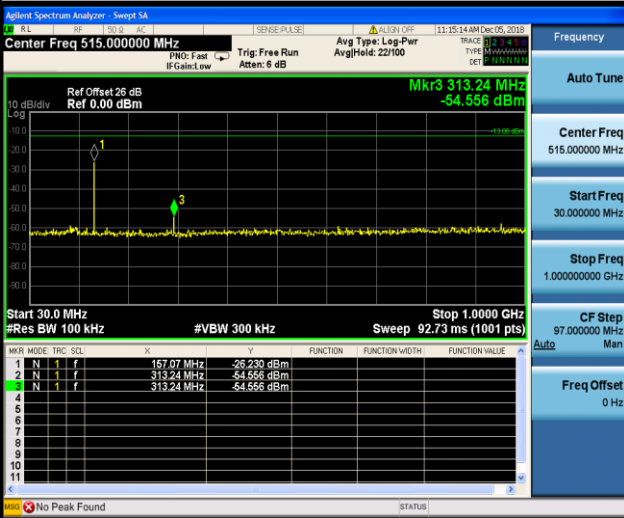
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-AWH	FM	V _N	-30	-1.658	-1.644	<u>-1.740</u>	±10	PASS
TX-AWH	FM	V _N	-20	-1.519	-1.613	-1.602	±10	PASS
TX-AWH	FM	V _N	-10	-1.490	-1.429	-1.570	±10	PASS
TX-AWH	FM	V _N	0	-1.331	-1.307	-1.369	±10	PASS
TX-AWH	FM	V _N	10	-1.182	-1.205	-1.188	±10	PASS
TX-AWH	FM	V _N	20	-0.993	-1.021	-1.061	±10	PASS
TX-AWH	FM	V _N	30	-1.211	-1.174	-1.273	±10	PASS
TX-AWH	FM	V _N	40	-1.271	-1.307	-1.369	±10	PASS
TX-AWH	FM	V _N	55	-1.400	-1.419	-1.454	±10	PASS
TX-AWL	FM	V _N	-30	-1.600	-1.579	-1.592	±10	PASS
TX-AWL	FM	V _N	-20	-1.527	-1.475	-1.486	±10	PASS
TX-AWL	FM	V _N	-10	-1.414	-1.360	-1.412	±10	PASS
TX-AWL	FM	V _N	0	-1.280	-1.255	-1.370	±10	PASS
TX-AWL	FM	V _N	10	-1.218	-1.234	-1.244	±10	PASS
TX-AWL	FM	V _N	20	-1.032	-1.046	-1.054	±10	PASS
TX-AWL	FM	V _N	30	-1.269	-1.213	-1.286	±10	PASS
TX-AWL	FM	V _N	40	-1.311	-1.308	-1.349	±10	PASS
TX-AWL	FM	V _N	55	-1.455	-1.433	-1.476	±10	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-AWH	FM	V _N	T _N	-0.993	-1.021	-1.061	±10	PASS
TX-AWH	FM	V _L	T _N	-1.483	-1.511	<u>-1.521</u>	±10	PASS
TX-AWH	FM	V _H	T _N	-1.223	-1.231	-1.261	±10	PASS
TX-AWL	FM	V _N	T _N	-1.032	-1.046	-1.054	±10	PASS
TX-AWL	FM	V _L	T _N	-1.282	-1.386	-1.404	±10	PASS
TX-AWL	FM	V _H	T _N	-1.212	-1.276	-1.274	±10	PASS

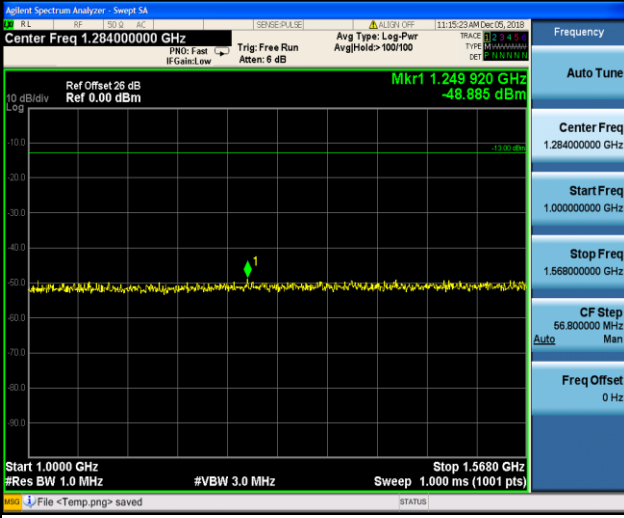
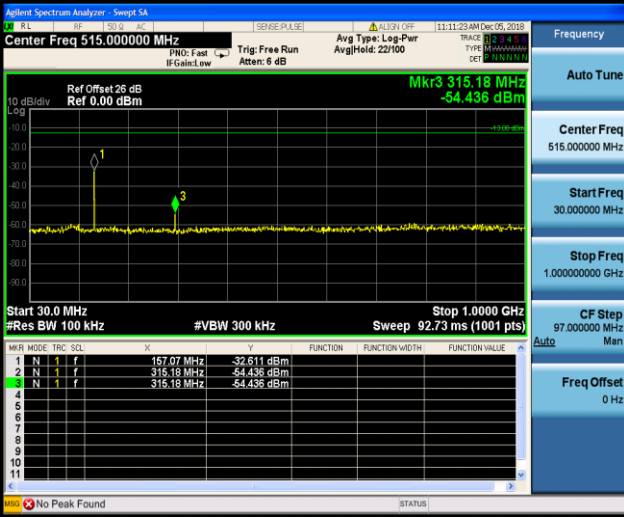
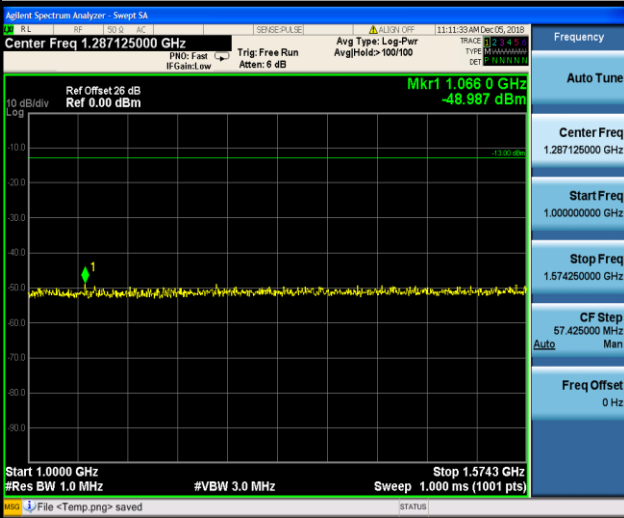


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-AWH	FM	CH _L		Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz
			30MHz~1GHz	
TX-AWH	FM	CH _L		Frequency Auto Tune Center Freq 1.280125000 GHz Start Freq 1.000000000 GHz Stop Freq 1.560250000 GHz CF Step 56.025000 MHz Freq Offset 0 Hz
			1GHz~10th Harmonic	
TX-AWH	FM	CH _M		Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz
			30MHz~1GHz	



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _M	 1GHz~10th Harmonic
TX-AWH	FM	CH _H	 30MHz~1GHz
TX-AWH	FM	CH _H	 1GHz~10th Harmonic

----End of Report----