

**Appendix A:Maximum Transmitter Power**

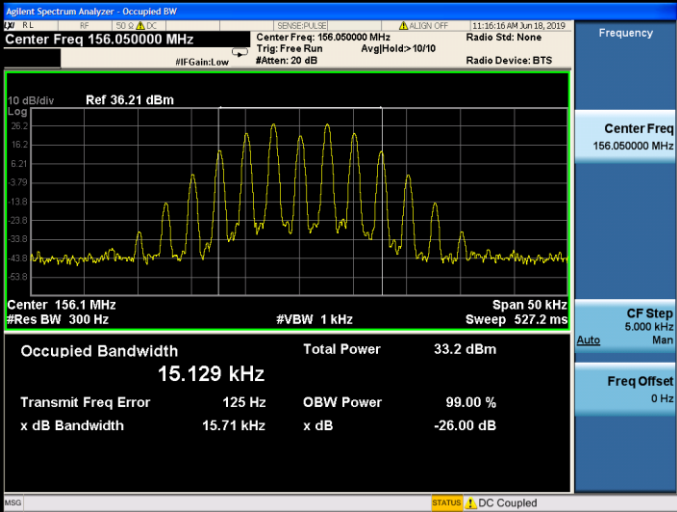
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-AWH	FM	CH _L	36.75	4.73	5.00	-5.4	±20	PASS
TX-AWH	FM	CH _{M2}	36.81	4.80	5.00	-4.1	±20	PASS
TX-AWH	FM	CH _H	36.78	4.76	5.00	-4.7	±20	PASS
TX-AWL	FM	CH _L	29.73	0.94	1.00	-6.0	±20	PASS
TX-AWL	FM	CH _{M2}	29.69	0.93	1.00	-6.9	±20	PASS
TX-AWL	FM	CH _H	29.71	0.94	1.00	-6.5	±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	15.129	15.714	≤20	PASS
TX-AWH	FM	CH _{M2}	15.169	15.734	≤20	PASS
TX-AWH	FM	CH _H	15.145	15.723	≤20	PASS
TX-AWL	FM	CH _L	15.183	17.943	≤20	PASS
TX-AWL	FM	CH _{M2}	15.181	17.922	≤20	PASS
TX-AWL	FM	CH _H	15.123	17.911	≤20	PASS

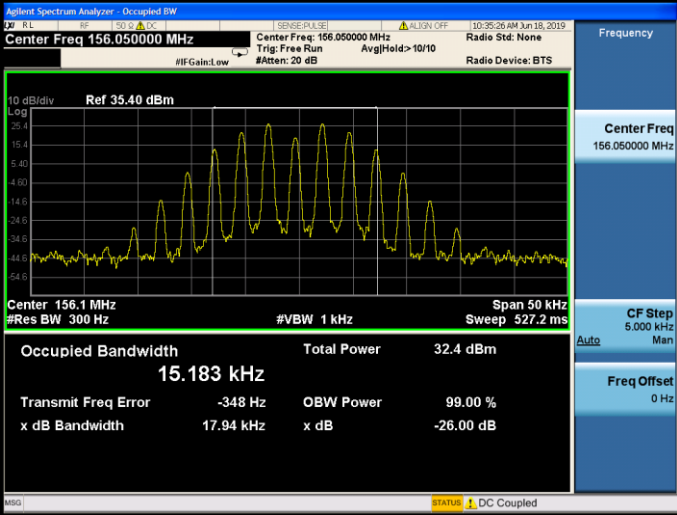
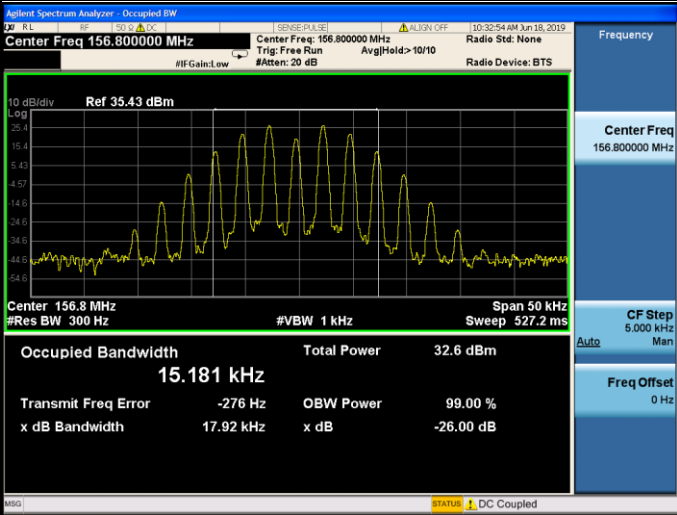
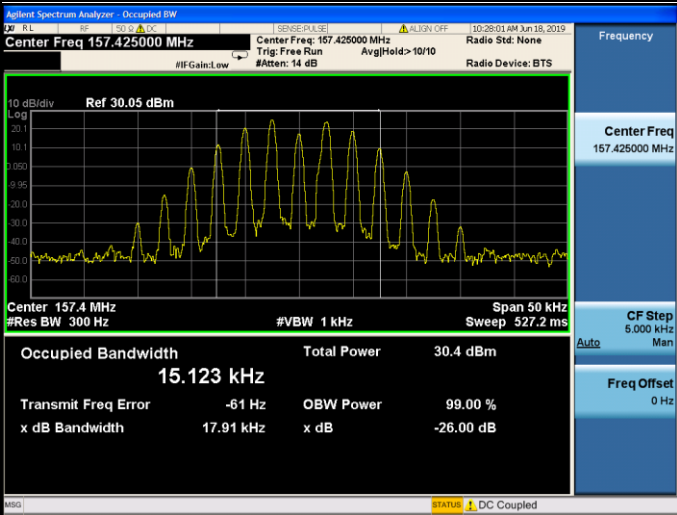


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 156.050000 MHz Center Freq: 156.050000 MHz Trig: Free Run #Att: 20 dB Radio Std: None Radio Device: BTS Frequency Center Freq 156.050000 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto Occupied Bandwidth 15.129 kHz Total Power 33.2 dBm Transmit Freq Error 125 Hz OBW Power 99.00 % x dB Bandwidth 15.71 kHz x dB -26.00 dB Span 50 kHz Sweep 527.2 ms #Res BW 300 Hz #VBW 1 kHz Ref 36.21 dBm 10 dB/div Log 156.2 156.1 156.0 155.9 155.8 155.7 155.6 155.5 155.4 155.3 155.2 155.1 155.0 154.9 154.8 154.7 154.6 154.5 154.4 154.3 154.2 154.1 154.0 153.9 153.8 153.7 153.6 153.5 153.4 153.3 153.2 153.1 153.0 152.9 152.8 152.7 152.6 152.5 152.4 152.3 152.2 152.1 152.0 151.9 151.8 151.7 151.6 151.5 151.4 151.3 151.2 151.1 151.0 150.9 150.8 150.7 150.6 150.5 150.4 150.3 150.2 150.1 150.0 149.9 149.8 149.7 149.6 149.5 149.4 149.3 149.2 149.1 149.0 148.9 148.8 148.7 148.6 148.5 148.4 148.3 148.2 148.1 148.0 147.9 147.8 147.7 147.6 147.5 147.4 147.3 147.2 147.1 147.0 146.9 146.8 146.7 146.6 146.5 146.4 146.3 146.2 146.1 146.0 145.9 145.8 145.7 145.6 145.5 145.4 145.3 145.2 145.1 145.0 144.9 144.8 144.7 144.6 144.5 144.4 144.3 144.2 144.1 144.0 143.9 143.8 143.7 143.6 143.5 143.4 143.3 143.2 143.1 143.0 142.9 142.8 142.7 142.6 142.5 142.4 142.3 142.2 142.1 142.0 141.9 141.8 141.7 141.6 141.5 141.4 141.3 141.2 141.1 141.0 140.9 140.8 140.7 140.6 140.5 140.4 140.3 140.2 140.1 140.0 139.9 139.8 139.7 139.6 139.5 139.4 139.3 139.2 139.1 139.0 138.9 138.8 138.7 138.6 138.5 138.4 138.3 138.2 138.1 138.0 137.9 137.8 137.7 137.6 137.5 137.4 137.3 137.2 137.1 137.0 136.9 136.8 136.7 136.6 136.5 136.4 136.3 136.2 136.1 136.0 135.9 135.8 135.7 135.6 135.5 135.4 135.3 135.2 135.1 135.0 134.9 134.8 134.7 134.6 134.5 134.4 134.3 134.2 134.1 134.0 133.9 133.8 133.7 133.6 133.5 133.4 133.3 133.2 133.1 133.0 132.9 132.8 132.7 132.6 132.5 132.4 132.3 132.2 132.1 132.0 131.9 131.8 131.7 131.6 131.5 131.4 131.3 131.2 131.1 131.0 130.9 130.8 130.7 130.6 130.5 130.4 130.3 130.2 130.1 130.0 129.9 129.8 129.7 129.6 129.5 129.4 129.3 129.2 129.1 129.0 128.9 128.8 128.7 128.6 128.5 128.4 128.3 128.2 128.1 128.0 127.9 127.8 127.7 127.6 127.5 127.4 127.3 127.2 127.1 127.0 126.9 126.8 126.7 126.6 126.5 126.4 126.3 126.2 126.1 126.0 125.9 125.8 125.7 125.6 125.5 125.4 125.3 125.2 125.1 125.0 124.9 124.8 124.7 124.6 124.5 124.4 124.3 124.2 124.1 124.0 123.9 123.8 123.7 123.6 123.5 123.4 123.3 123.2 123.1 123.0 122.9 122.8 122.7 122.6 122.5 122.4 122.3 122.2 122.1 122.0 121.9 121.8 121.7 121.6 121.5 121.4 121.3 121.2 121.1 121.0 120.9 120.8 120.7 120.6 120.5 120.4 120.3 120.2 120.1 120.0 119.9 119.8 119.7 119.6 119.5 119.4 119.3 119.2 119.1 119.0 118.9 118.8 118.7 118.6 118.5 118.4 118.3 118.2 118.1 118.0 117.9 117.8 117.7 117.6 117.5 117.4 117.3 117.2 117.1 117.0 116.9 116.8 116.7 116.6 116.5 116.4 116.3 116.2 116.1 116.0 115.9 115.8 115.7 115.6 115.5 115.4 115.3 115.2 115.1 115.0 114.9 114.8 114.7 114.6 114.5 114.4 114.3 114.2 114.1 114.0 113.9 113.8 113.7 113.6 113.5 113.4 113.3 113.2 113.1 113.0 112.9 112.8 112.7 112.6 112.5 112.4 112.3 112.2 112.1 112.0 111.9 111.8 111.7 111.6 111.5 111.4 111.3 111.2 111.1 111.0 110.9 110.8 110.7 110.6 110.5 110.4 110.3 110.2 110.1 110.0 109.9 109.8 109.7 109.6 109.5 109.4 109.3 109.2 109.1 109.0 108.9 108.8 108.7 108.6 108.5 108.4 108.3 108.2 108.1 108.0 107.9 107.8 107.7 107.6 107.5 107.4 107.3 107.2 107.1 107.0 106.9 106.8 106.7 106.6 106.5 106.4 106.3 106.2 106.1 106.0 105.9 105.8 105.7 105.6 105.5 105.4 105.3 105.2 105.1 105.0 104.9 104.8 104.7 104.6 104.5 104.4 104.3 104.2 104.1 104.0 103.9 103.8 103.7 103.6 103.5 103.4 103.3 103.2 103.1 103.0 102.9 102.8 102.7 102.6 102.5 102.4 102.3 102.2 102.1 102.0 101.9 101.8 101.7 101.6 101.5 101.4 101.3 101.2 101.1 101.0 100.9 100.8 100.7 100.6 100.5 100.4 100.3 100.2 100.1 100.0 99.9 99.8 99.7 99.6 99.5 99.4 99.3 99.2 99.1 99.0 98.9 98.8 98.7 98.6 98.5 98.4 98.3 98.2 98.1 98.0 97.9 97.8 97.7 97.6 97.5 97.4 97.3 97.2 97.1 97.0 96.9 96.8 96.7 96.6 96.5 96.4 96.3 96.2 96.1 96.0 95.9 95.8 95.7 95.6 95.5 95.4 95.3 95.2 95.1 95.0 94.9 94.8 94.7 94.6 94.5 94.4 94.3 94.2 94.1 94.0 93.9 93.8 93.7 93.6 93.5 93.4 93.3 93.2 93.1 93.0 92.9 92.8 92.7 92.6 92.5 92.4 92.3 92.2 92.1 92.0 91.9 91.8 91.7 91.6 91.5 91.4 91.3 91.2 91.1 91.0 90.9 90.8 90.7 90.6 90.5 90.4 90.3 90.2 90.1 90.0 89.9 89.8 89.7 89.6 89.5 89.4 89.3 89.2 89.1 89.0 88.9 88.8 88.7 88.6 88.5 88.4 88.3 88.2 88.1 88.0 87.9 87.8 87.7 87.6 87.5 87.4 87.3 87.2 87.1 87.0 86.9 86.8 86.7 86.6 86.5 86.4 86.3 86.2 86.1 86.0 85.9 85.8 85.7 85.6 85.5 85.4 85.3 85.2 85.1 85.0 84.9 84.8 84.7 84.6 84.5 84.4 84.3 84.2 84.1 84.0 83.9 83.8 83.7 83.6 83.5 83.4 83.3 83.2 83.1 83.0 82.9 82.8 82.7 82.6 82.5 82.4 82.3 82.2 82.1 82.0 81.9 81.8 81.7 81.6 81.5 81.4 81.3 81.2 81.1 81.0 80.9 80.8 80.7 80.6 80.5 80.4 80.3 80.2 80.1 80.0 79.9 79.8 79.7 79.6 79.5 79.4 79.3 79.2 79.1 79.0 78.9 78.8 78.7 78.6 78.5 78.4 78.3 78.2 78.1 78.0 77.9 77.8 77.7 77.6 77.5 77.4 77.3 77.2 77.1 77.0 76.9 76.8 76.7 76.6 76.5 76.4 76.3 76.2 76.1 76.0 75.9 75.8 75.7 75.6 75.5 75.4 75.3 75.2 75.1 75.0 74.9 74.8 74.7 74.6 74.5 74.4 74.3 74.2 74.1 74.0 73.9 73.8 73.7 73.6 73.5 73.4 73.3 73.2 73.1 73.0 72.9 72.8 72.7 72.6 72.5 72.4 72.3 72.2 72.1 72.0 71.9 71.8 71.7 71.6 71.5 71.4 71.3 71.2 71.1 71.0 70.9 70.8 70.7 70.6 70.5 70.4 70.3 70.2 70.1 70.0 69.9 69.8 69.7 69.6 69.5 69.4 69.3 69.2 69.1 69.0 68.9 68.8 68.7 68.6 68.5 68.4 68.3 68.2 68.1 68.0 67.9 67.8 67.7 67.6 67.5 67.4 67.3 67.2 67.1 67.0 66.9 66.8 66.7 66.6 66.5 66.4 66.3 66.2 66.1 66.0 65.9 65.8 65.7 65.6 65.5 65.4 65.3 65.2 65.1 65.0 64.9 64.8 64.7 64.6 64.5 64.4 64.3 64.2 64.1 64.0 63.9 63.8 63.7 63.6 63.5 63.4 63.3 63.2 63.1 63.0 62.9 62.8 62.7 62.6 62.5 62.4 62.3 62.2 62.1 62.0 61.9 61.8 61.7 61.6 61.5 61.4 61.3 61.2 61.1 61.0 60.9 60.8 60.7 60.6 60.5 60.4 60.3 60.2 60.1 60.0 59.9 59.8 59.7 59.6 59.5 59.4 59.3 59.2 59.1 59.0 58.9 58.8 58.7 58.6 58.5 58.4 58.3 58.2 58.1 58.0 57.9 57.8 57.7 57.6 57.5 57.4 57.3 57.2 57.1 57.0 56.9 56.8 56.7 56.6 56.5 56.4 56.3 56.2 56.1 56.0 55.9 55.8 55.7 55.6 55.5 55.4 55.3 55.2 55.1 55.0 54.9 54.8 54.7 54.6 54.5 54.4 54.3 54.2 54.1 54.0 53.9 53.8 53.7 53.6 53.5 53.4 53.3 53.2 53.1 53.0 52.9 52.8 52.7 52.6 52.5 52.4 52.3 52.2 52.1 52.0 51.9 51.8 51.7 51.6 51.5 51.4 51.3 51.2 51.1 51.0 50.9 50.8 50.7 50.6 50.5 50.4 50.3 50.2 50.1 50.0 49.9 49.8 49.7 49.6 49.5 49.4 49.3 49.2 49.1 49.0 48.9 48.8 48.7 48.6 48.5 48.4 48.3 48.2 48.1 48.0 47.9 47.8 47.7 47.6 47.5 47.4 47.3 47.2 47.1 47.0 46.9 46.8 46.7 46.6 46.5 46.4 46.3 46.2 46.1 46.0 45.9 45.8 45.7 45.6 45.5 45.4 45.3 45.2 45.1 45.0 44.9 44.8 44.7 44.6 44.5 44.4 44.3 44.2 44.1 44.0 43.9 43.8 43.7 43.6 43.5 43.4 43.3 43.2 43.1 43.0 42.9 42.8 42.7 42.6 42.5 42.4 42.3 42.2 42.1 42.0 41.9 41.8 41.7 41.6 41.5 41.4 41.3 41.2 41.1 41.0 40.9 40.8 40.7 40.6 40.5 40.4 40.3 40.2 40.1 40.0 39.9 39.8 39.7 39.6 39.5 39.4 39.3 39.2 39.1 39.0 38.9 38.8 38.7 38.6 38.5 38.4 38.3 38.2 38.1 38.0 37.9 37.8 37.7 37.6 37.5 37.4 37.3 37.2 37.1 37.0 36.9 36.8 36.7 36.6 36.5 36.4 36.3 36.2 36.1 36.0 35.9 35.8 35.7 35.6 35.5 35.4 35.3 35.2 35.1 35.0 34.9 34.8 34.7 34.6 34.5 34.4 34.3 34.2 34.1 34.0 33.9 33.8 33.7 33.6 33.5 33.4 33.3 33.2 33.1 33.0 32.9 32.8 32.7 32.6 32.5 32.4

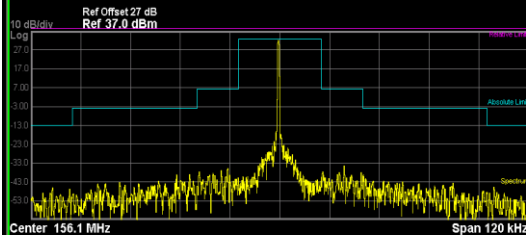
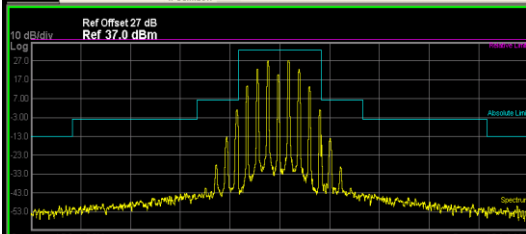
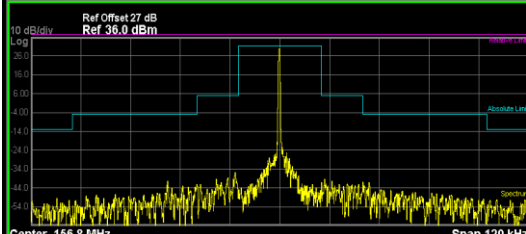


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 156.050000 MHz Center Freq 156.050000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 35.46 dBm 10 dB/div Log Center 156.1 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms Occupied Bandwidth 15.183 kHz Total Power 32.4 dBm Transmit Freq Error -348 Hz OBW Power 99.00 % x dB Bandwidth 17.94 kHz x dB -26.00 dB Frequency Center Freq 156.050000 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-AWL	FM	CH _{M2}	 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 35.43 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 15.181 kHz Total Power 32.6 dBm Transmit Freq Error -276 Hz OBW Power 99.00 % x dB Bandwidth 17.92 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 Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 30.05 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 15.123 kHz Total Power 30.4 dBm Transmit Freq Error -61 Hz OBW Power 99.00 % x dB Bandwidth 17.91 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 27 R L SENSE PULSE ALIGN OFF 10:35:58 AM Jun 18, 2019 Center Freq 156.050000 MHz Center Freq: 156.050000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 37.0 dBm  Center 156.1 MHz Span 120 kHz Total Power Ref 31.82 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>32.07</td><td>(-0.73)</td><td>-419.2</td><td>0.542</td><td>(-32.27)</td><td>0.0</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-35.96</td><td>(-42.27)</td><td>-12.64 k</td><td>-34.36</td><td>(-40.66)</td><td>15.46 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-39.01</td><td>(-35.32)</td><td>-24.81 k</td><td>-39.20</td><td>(-35.50)</td><td>20.19 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-46.23</td><td>(-33.23)</td><td>-54.78 k</td><td>-45.64</td><td>(-32.64)</td><td>51.61 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> File <MASK B.state> recalled (STATUS) Frequency Center Freq 156.050000 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	10.00 kHz	300.0 Hz	32.07	(-0.73)	-419.2	0.542	(-32.27)	0.0	10.00 kHz	20.00 kHz	300.0 Hz	-35.96	(-42.27)	-12.64 k	-34.36	(-40.66)	15.46 k	20.00 kHz	50.00 kHz	300.0 Hz	-39.01	(-35.32)	-24.81 k	-39.20	(-35.50)	20.19 k	50.00 kHz	60.00 kHz	300.0 Hz	-46.23	(-33.23)	-54.78 k	-45.64	(-32.64)	51.61 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	32.07	(-0.73)	-419.2	0.542	(-32.27)	0.0																																																										
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-AWH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 27 R L SENSE PULSE ALIGN OFF 10:36:47 AM Jun 18, 2019 Center Freq 156.050000 MHz Center Freq: 156.050000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 37.0 dBm  Center 156.1 MHz Span 120 kHz Total Power Ref 31.54 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>27.14</td><td>(-5.67)</td><td>-2.814 k</td><td>27.18</td><td>(-5.62)</td><td>2.216 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>1.234</td><td>(-5.07)</td><td>-10.36 k</td><td>-12.43</td><td>(-18.74)</td><td>10.00 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-43.11</td><td>(-39.42)</td><td>-22.89 k</td><td>-43.63</td><td>(-39.93)</td><td>20.19 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-49.70</td><td>(-36.70)</td><td>-51.49 k</td><td>-49.93</td><td>(-36.93)</td><td>57.24 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> File <Temp.png> saved (STATUS) Frequency Center Freq 156.050000 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	10.00 kHz	300.0 Hz	27.14	(-5.67)	-2.814 k	27.18	(-5.62)	2.216 k	10.00 kHz	20.00 kHz	300.0 Hz	1.234	(-5.07)	-10.36 k	-12.43	(-18.74)	10.00 k	20.00 kHz	50.00 kHz	300.0 Hz	-43.11	(-39.42)	-22.89 k	-43.63	(-39.93)	20.19 k	50.00 kHz	60.00 kHz	300.0 Hz	-49.70	(-36.70)	-51.49 k	-49.93	(-36.93)	57.24 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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10.00 kHz	20.00 kHz	300.0 Hz	1.234	(-5.07)	-10.36 k	-12.43	(-18.74)	10.00 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-43.11	(-39.42)	-22.89 k	-43.63	(-39.93)	20.19 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-49.70	(-36.70)	-51.49 k	-49.93	(-36.93)	57.24 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask 27 R L SENSE PULSE ALIGN OFF 10:31:14 AM Jun 18, 2019 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 27 dB Ref 36.0 dBm  Center 156.8 MHz Span 120 kHz Total Power Ref 29.95 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>29.66</td><td>(-1.90)</td><td>-119.8</td><td>27.44</td><td>(-4.12)</td><td>0.0</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-35.90</td><td>(-40.96)</td><td>-10.84 k</td><td>-39.50</td><td>(-44.55)</td><td>10.78 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-40.47</td><td>(-35.53)</td><td>-26.97 k</td><td>-40.73</td><td>(-35.78)</td><td>20.07 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-49.60</td><td>(-36.60)</td><td>-53.71 k</td><td>-50.21</td><td>(-37.21)</td><td>59.16 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> File <MASK B.state> recalled (STATUS) Frequency Center Freq 156.800000 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	10.00 kHz	300.0 Hz	29.66	(-1.90)	-119.8	27.44	(-4.12)	0.0	10.00 kHz	20.00 kHz	300.0 Hz	-35.90	(-40.96)	-10.84 k	-39.50	(-44.55)	10.78 k	20.00 kHz	50.00 kHz	300.0 Hz	-40.47	(-35.53)	-26.97 k	-40.73	(-35.78)	20.07 k	50.00 kHz	60.00 kHz	300.0 Hz	-49.60	(-36.60)	-53.71 k	-50.21	(-37.21)	59.16 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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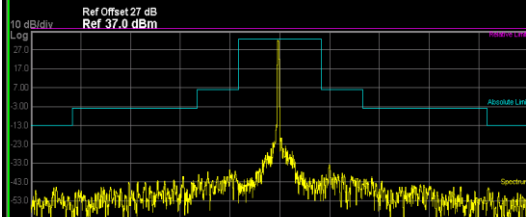
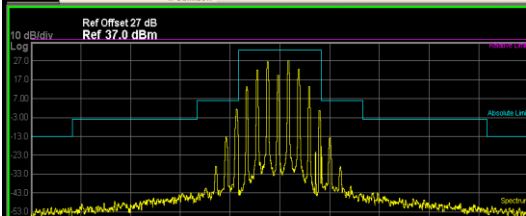
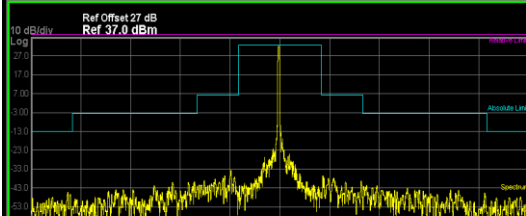
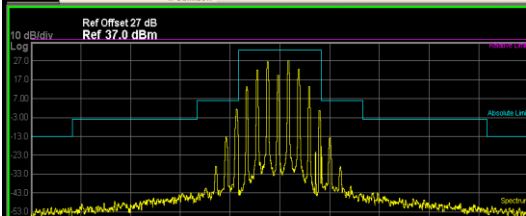
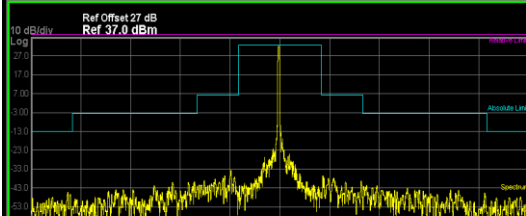
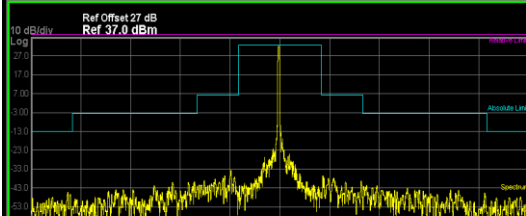
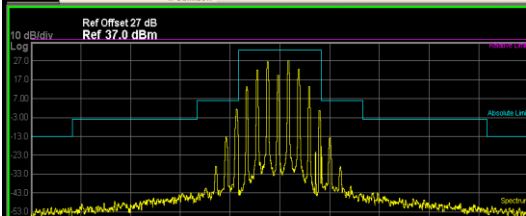
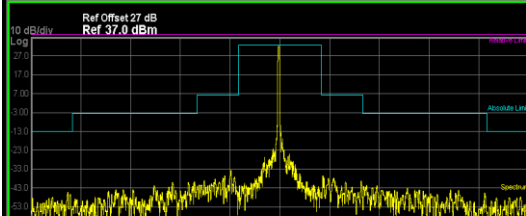
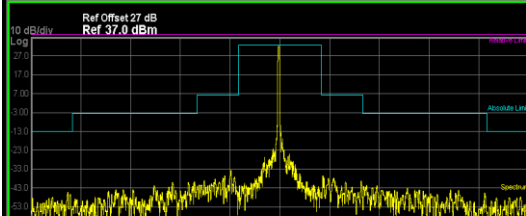
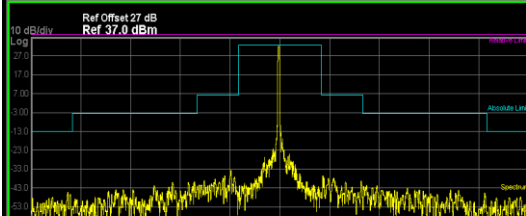


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH _{M2}	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 27 dB Ref 36.0 dBm Center 156.8 MHz Span 120 kHz Total Power Ref 29.18 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 kHz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>24.80</td><td>(-6.75)</td><td>-2.635 k</td><td>24.86</td><td>(-6.70)</td><td>2.275 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-1.419</td><td>(-6.47)</td><td>-10.18 k</td><td>-5.414</td><td>(-10.47)</td><td>10.00 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-45.33</td><td>(-40.38)</td><td>-21.33 k</td><td>-45.88</td><td>(-40.94)</td><td>22.83 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-52.32</td><td>(-39.32)</td><td>-53.29 k</td><td>-52.14</td><td>(-39.14)</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> File <Temp.png> saved Frequency Center Freq 156.800000 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 kHz	10.00 kHz	300.0 Hz	24.80	(-6.75)	-2.635 k	24.86	(-6.70)	2.275 k	10.00 kHz	20.00 kHz	300.0 Hz	-1.419	(-6.47)	-10.18 k	-5.414	(-10.47)	10.00 k	20.00 kHz	50.00 kHz	300.0 Hz	-45.33	(-40.38)	-21.33 k	-45.88	(-40.94)	22.83 k	50.00 kHz	60.00 kHz	300.0 Hz	-52.32	(-39.32)	-53.29 k	-52.14	(-39.14)	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-AWH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 27 dB Ref 37.0 dBm Center 157.4 MHz Span 120 kHz Total Power Ref 32.35 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 kHz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>32.13</td><td>(-1.34)</td><td>0.0</td><td>32.71</td><td>(0.77)</td><td>179.6</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-34.10</td><td>(-41.07)</td><td>-11.20 k</td><td>-35.60</td><td>(-42.57)</td><td>12.70 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-38.36</td><td>(-35.34)</td><td>-23.55 k</td><td>-38.90</td><td>(-35.87)</td><td>27.51 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-43.40</td><td>(-30.40)</td><td>-54.96 k</td><td>-46.88</td><td>(-33.88)</td><td>58.14 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> File <MASK B.state> recalled Frequency Center Freq 157.425000 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 kHz	10.00 kHz	300.0 Hz	32.13	(-1.34)	0.0	32.71	(0.77)	179.6	10.00 kHz	20.00 kHz	300.0 Hz	-34.10	(-41.07)	-11.20 k	-35.60	(-42.57)	12.70 k	20.00 kHz	50.00 kHz	300.0 Hz	-38.36	(-35.34)	-23.55 k	-38.90	(-35.87)	27.51 k	50.00 kHz	60.00 kHz	300.0 Hz	-43.40	(-30.40)	-54.96 k	-46.88	(-33.88)	58.14 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 _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 27 dB Ref 37.0 dBm Center 157.4 MHz Span 120 kHz Total Power Ref 32.18 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 kHz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>27.74</td><td>(-5.73)</td><td>-2.455 k</td><td>27.78</td><td>(-5.70)</td><td>2.515 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>1.151</td><td>(-5.83)</td><td>-10.00 k</td><td>1.186</td><td>(-5.79)</td><td>10.06 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-40.05</td><td>(-37.03)</td><td>-47.59 k</td><td>-42.76</td><td>(-39.74)</td><td>20.31 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-49.35</td><td>(-36.35)</td><td>-50.71 k</td><td>-48.93</td><td>(-35.93)</td><td>57.18 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> File <Temp.png> saved Frequency Center Freq 157.425000 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 kHz	10.00 kHz	300.0 Hz	27.74	(-5.73)	-2.455 k	27.78	(-5.70)	2.515 k	10.00 kHz	20.00 kHz	300.0 Hz	1.151	(-5.83)	-10.00 k	1.186	(-5.79)	10.06 k	20.00 kHz	50.00 kHz	300.0 Hz	-40.05	(-37.03)	-47.59 k	-42.76	(-39.74)	20.31 k	50.00 kHz	60.00 kHz	300.0 Hz	-49.35	(-36.35)	-50.71 k	-48.93	(-35.93)	57.18 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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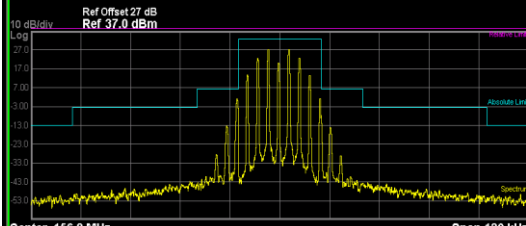
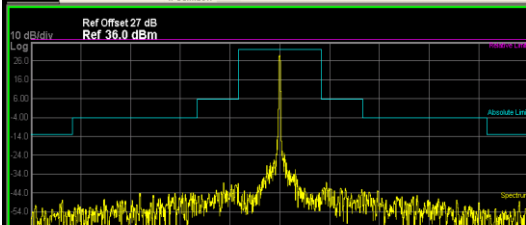
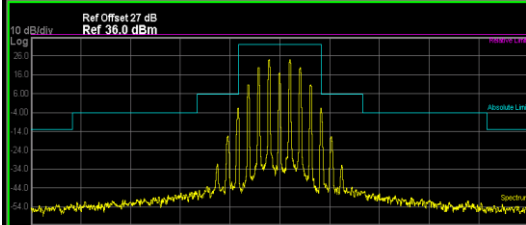


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.050000 MHz Ref Offset 27 dB Ref 37.0 dBm  Center 156.1 MHz Span 120 kHz Total Power Ref 31.69 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>10.00 kHz</td><td>300.0 Hz</td><td>31.95</td><td>(-0.73)</td><td>-479.0</td><td>-19.75</td><td>(-52.43)</td><td>359.3</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-36.70</td><td>(-42.88)</td><td>-12.10 k</td><td>-33.88</td><td>(-40.06)</td><td>11.92 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-40.09</td><td>(-36.27)</td><td>-23.19 k</td><td>-40.23</td><td>(-36.41)</td><td>22.23 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-45.68</td><td>(-32.68)</td><td>-53.88 k</td><td>-46.07</td><td>(-33.07)</td><td>50.29 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 156.050000 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-AWL</td><td>FM</td><td>CH_L</td><td> Agilent Spectrum Analyzer - 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50.00 kHz	60.00 kHz	300.0 Hz	-50.50	(-37.50)	-50.35 k	-50.13	(-37.13)	51.13 k																																																																																																																																																																																																
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
TX-AWL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 156.800000 MHz Ref Offset 27 dB Ref 37.0 dBm  Center 156.8 MHz Span 120 kHz Total Power Ref 31.69 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>10.00 kHz</td><td>300.0 Hz</td><td>32.12</td><td>(-0.79)</td><td>-179.6</td><td>14.66</td><td>(-18.25)</td><td>0.0</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-33.67</td><td>(-40.08)</td><td>-11.80 k</td><td>-36.43</td><td>(-42.84)</td><td>10.36 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-39.61</td><td>(-36.02)</td><td>-20.55 k</td><td>-41.64</td><td>(-38.05)</td><td>20.91 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-45.27</td><td>(-32.27)</td><td>-51.13 k</td><td>-47.67</td><td>(-34.67)</td><td>57.96 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 156.800000 MHz CF Step 12.000 kHz 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	10.00 kHz	300.0 Hz	32.12	(-0.79)	-179.6	14.66	(-18.25)	0.0	10.00 kHz	20.00 kHz	300.0 Hz	-33.67	(-40.08)	-11.80 k	-36.43	(-42.84)	10.36 k	20.00 kHz	50.00 kHz	300.0 Hz	-39.61	(-36.02)	-20.55 k	-41.64	(-38.05)	20.91 k	50.00 kHz	60.00 kHz	300.0 Hz	-45.27	(-32.27)	-51.13 k	-47.67	(-34.67)	57.96 k	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-AWL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask 17 R L 150.000 MHz 150.000 MHz SENSE PULSE ALIGN OFF 10:34:22 AM Jun 18, 2019 Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low Atten: 40 dB Radio Device: BTS PASS Ref Offset 27 dB Ref 37.0 dBm <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</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>27.23</td><td>(-5.68)</td><td>-2.874 k</td><td>27.25</td><td>(-5.66)</td><td>2.275 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>1.158</td><td>(-5.25)</td><td>-10.30 k</td><td>-7.801</td><td>(-14.21)</td><td>10.00 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-42.72</td><td>(-39.13)</td><td>-21.57 k</td><td>-43.27</td><td>(-39.67)</td><td>21.27 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-50.08</td><td>(-37.08)</td><td>-52.93 k</td><td>-49.09</td><td>(-36.09)</td><td>58.02 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> Center 156.8 MHz Span 120 kHz Total Power Ref 31.65 dBm 0.0125 MHz File <Temp.png> saved (STATUS) Frequency Center Freq 156.800000 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	10.00 kHz	300.0 Hz	27.23	(-5.68)	-2.874 k	27.25	(-5.66)	2.275 k	10.00 kHz	20.00 kHz	300.0 Hz	1.158	(-5.25)	-10.30 k	-7.801	(-14.21)	10.00 k	20.00 kHz	50.00 kHz	300.0 Hz	-42.72	(-39.13)	-21.57 k	-43.27	(-39.67)	21.27 k	50.00 kHz	60.00 kHz	300.0 Hz	-50.08	(-37.08)	-52.93 k	-49.09	(-36.09)	58.02 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	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-AWL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask 17 R L 150.000 MHz 150.000 MHz SENSE PULSE ALIGN OFF 10:28:36 AM Jun 18, 2019 Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low Atten: 40 dB Radio Device: BTS PASS Ref Offset 27 dB Ref 36.0 dBm <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</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>28.99</td><td>(-3.25)</td><td>0.0</td><td>28.99</td><td>(-3.25)</td><td>0.0</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-38.80</td><td>(44.34)</td><td>-13.60 k</td><td>-38.19</td><td>(43.93)</td><td>11.20 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-43.86</td><td>(39.60)</td><td>-20.85 k</td><td>-42.93</td><td>(38.67)</td><td>23.67 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-47.73</td><td>(-34.73)</td><td>-52.45 k</td><td>-48.42</td><td>(-35.42)</td><td>57.72 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> Center 157.4 MHz Span 120 kHz Total Power Ref 28.58 dBm 0.0125 MHz File <MASK B.state> recalled (STATUS) Frequency Center Freq 157.425000 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	10.00 kHz	300.0 Hz	28.99	(-3.25)	0.0	28.99	(-3.25)	0.0	10.00 kHz	20.00 kHz	300.0 Hz	-38.80	(44.34)	-13.60 k	-38.19	(43.93)	11.20 k	20.00 kHz	50.00 kHz	300.0 Hz	-43.86	(39.60)	-20.85 k	-42.93	(38.67)	23.67 k	50.00 kHz	60.00 kHz	300.0 Hz	-47.73	(-34.73)	-52.45 k	-48.42	(-35.42)	57.72 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	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-AWL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask 17 R L 150.000 MHz 150.000 MHz SENSE PULSE ALIGN OFF 10:29:25 AM Jun 18, 2019 Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low Atten: 40 dB Radio Device: BTS PASS Ref Offset 27 dB Ref 36.0 dBm <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</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>24.13</td><td>(-8.11)</td><td>-2.515 k</td><td>24.19</td><td>(-8.05)</td><td>2.455 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-1.713</td><td>(-7.45)</td><td>-10.12 k</td><td>-2.632</td><td>(-8.37)</td><td>10.00 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-45.84</td><td>(-41.58)</td><td>-20.01 k</td><td>-45.71</td><td>(-41.45)</td><td>20.49 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-52.73</td><td>(-39.73)</td><td>-50.29 k</td><td>-52.91</td><td>(-39.91)</td><td>53.65 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> Center 157.4 MHz Span 120 kHz Total Power Ref 28.46 dBm 0.0125 MHz File <Temp.png> saved (STATUS) Frequency Center Freq 157.425000 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	10.00 kHz	300.0 Hz	24.13	(-8.11)	-2.515 k	24.19	(-8.05)	2.455 k	10.00 kHz	20.00 kHz	300.0 Hz	-1.713	(-7.45)	-10.12 k	-2.632	(-8.37)	10.00 k	20.00 kHz	50.00 kHz	300.0 Hz	-45.84	(-41.58)	-20.01 k	-45.71	(-41.45)	20.49 k	50.00 kHz	60.00 kHz	300.0 Hz	-52.73	(-39.73)	-50.29 k	-52.91	(-39.91)	53.65 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	Upper ΔLim(dB)	Freq (Hz)																																																										
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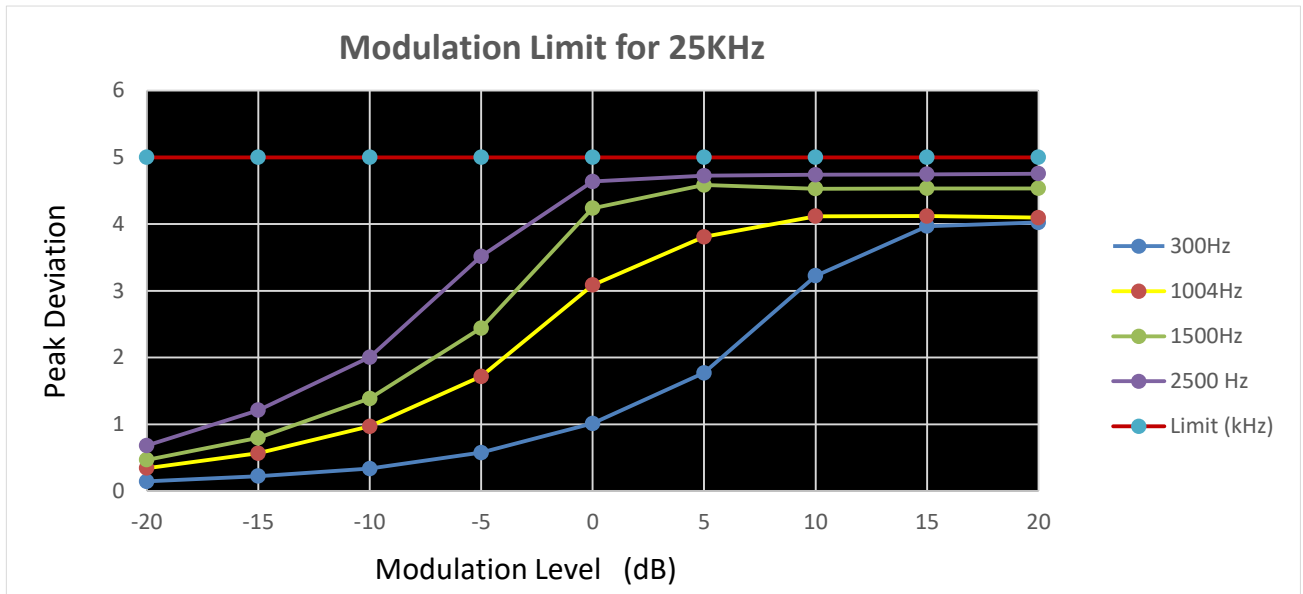
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-AWH	FM	CH _{M2}	-20	0.143	0.342	0.467	0.681	5	PASS
TX-AWH	FM	CH _{M2}	-15	0.224	0.566	0.796	1.212	5	PASS
TX-AWH	FM	CH _{M2}	-10	0.337	0.969	1.385	2.004	5	PASS
TX-AWH	FM	CH _{M2}	-5	0.576	1.717	2.441	3.515	5	PASS
TX-AWH	FM	CH _{M2}	0	1.013	3.085	4.238	4.638	5	PASS
TX-AWH	FM	CH _{M2}	5	1.769	3.809	4.584	4.723	5	PASS
TX-AWH	FM	CH _{M2}	10	3.225	4.117	4.529	4.737	5	PASS
TX-AWH	FM	CH _{M2}	15	3.969	4.119	4.535	4.745	5	PASS
TX-AWH	FM	CH _{M2}	20	4.024	4.095	4.534	4.755	5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



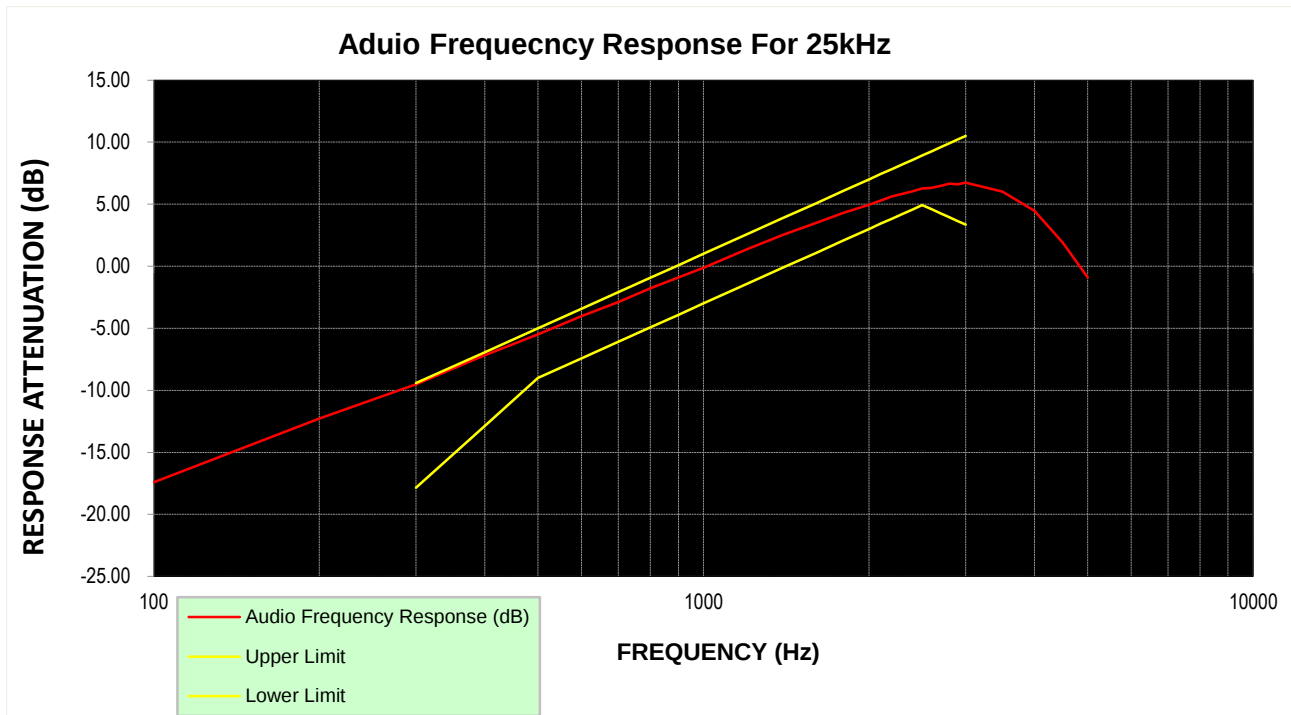
**Appendix E:Aduio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH _{M2}	100	-17.41			PASS
TX-AWH	FM	CH _{M2}	200	-12.28			PASS
TX-AWH	FM	CH _{M2}	300	-9.51	-17.84	-9.42	PASS
TX-AWH	FM	CH _{M2}	400	-7.17	-12.86	-6.93	PASS
TX-AWH	FM	CH _{M2}	500	-5.49	-9.00	-5.00	PASS
TX-AWH	FM	CH _{M2}	600	-4.03	-7.42	-3.42	PASS
TX-AWH	FM	CH _{M2}	700	-2.89	-6.09	-2.09	PASS
TX-AWH	FM	CH _{M2}	800	-1.79	-4.93	-0.93	PASS
TX-AWH	FM	CH _{M2}	900	-0.91	-3.91	0.09	PASS
TX-AWH	FM	CH _{M2}	1000	-0.13	-3.00	1.00	PASS
TX-AWH	FM	CH _{M2}	1200	1.38	-1.42	2.58	PASS
TX-AWH	FM	CH _{M2}	1400	2.56	-0.09	3.91	PASS
TX-AWH	FM	CH _{M2}	1600	3.48	1.07	5.07	PASS
TX-AWH	FM	CH _{M2}	1800	4.31	2.09	6.09	PASS
TX-AWH	FM	CH _{M2}	2000	4.96	3.00	7.00	PASS
TX-AWH	FM	CH _{M2}	2100	5.29	3.42	7.42	PASS
TX-AWH	FM	CH _{M2}	2200	5.63	3.83	7.83	PASS
TX-AWH	FM	CH _{M2}	2300	5.83	4.21	8.21	PASS
TX-AWH	FM	CH _{M2}	2400	6.05	4.58	8.58	PASS
TX-AWH	FM	CH _{M2}	2500	6.26	4.93	8.93	PASS
TX-AWH	FM	CH _{M2}	2600	6.32	4.59	9.27	PASS
TX-AWH	FM	CH _{M2}	2700	6.49	4.27	9.60	PASS
TX-AWH	FM	CH _{M2}	2800	6.65	3.95	9.91	PASS
TX-AWH	FM	CH _{M2}	2900	6.61	3.65	10.22	PASS
TX-AWH	FM	CH _{M2}	3000	6.73	3.35	10.51	PASS
TX-AWH	FM	CH _{M2}	3500	6.01			PASS
TX-AWH	FM	CH _{M2}	4000	4.47			PASS
TX-AWH	FM	CH _{M2}	4500	1.92			PASS
TX-AWH	FM	CH _{M2}	5000	-0.89			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 _{M2}	1	-16.77	0.00	PASS
TX-AWH	FM	CH _{M2}	3	-25.58	0.00	PASS
TX-AWH	FM	CH _{M2}	4	-41.19	-7.50	PASS
TX-AWH	FM	CH _{M2}	5	-55.52	-13.30	PASS
TX-AWH	FM	CH _{M2}	6	-59.26	-18.10	PASS
TX-AWH	FM	CH _{M2}	8	-59.45	-25.60	PASS
TX-AWH	FM	CH _{M2}	10	-59.67	-31.40	PASS
TX-AWH	FM	CH _{M2}	15	-59.84	-41.90	PASS
TX-AWH	FM	CH _{M2}	20	-59.91	-50.00	PASS
TX-AWH	FM	CH _{M2}	30	-59.64	-50.00	PASS
TX-AWH	FM	CH _{M2}	40	-59.83	-50.00	PASS
TX-AWH	FM	CH _{M2}	50	-59.72	-50.00	PASS
TX-AWH	FM	CH _{M2}	60	-59.91	-50.00	PASS
TX-AWH	FM	CH _{M2}	70	-60.13	-50.00	PASS
TX-AWH	FM	CH _{M2}	80	-60.12	-50.00	PASS
TX-AWH	FM	CH _{M2}	90	-60.09	-50.00	PASS
TX-AWH	FM	CH _{M2}	100	-60.11	-50.00	PASS



Appendix F:Audio Low Pass Filter Response

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

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

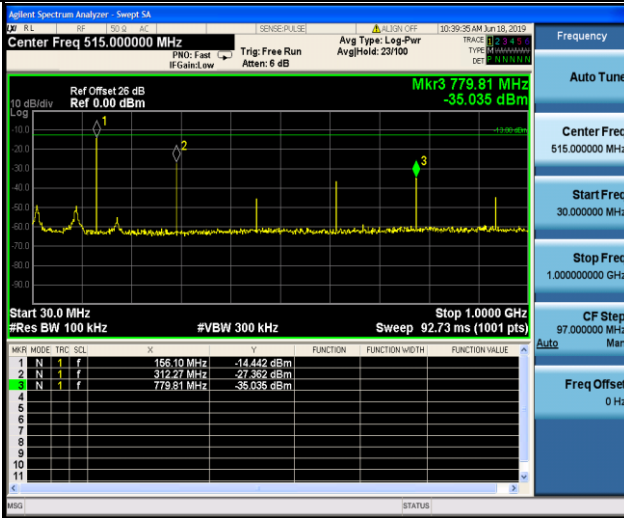
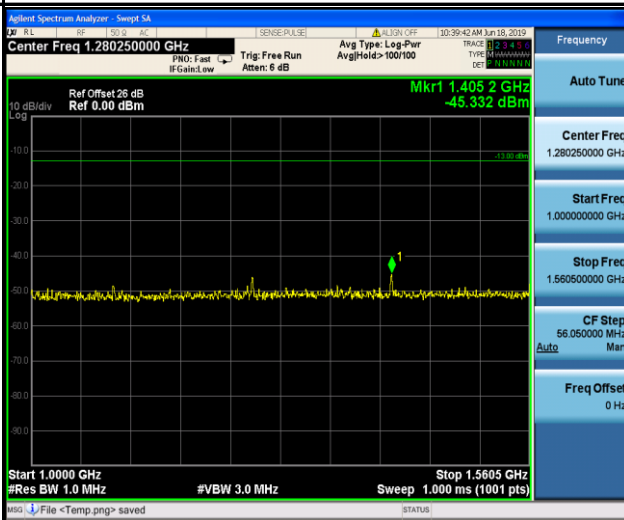
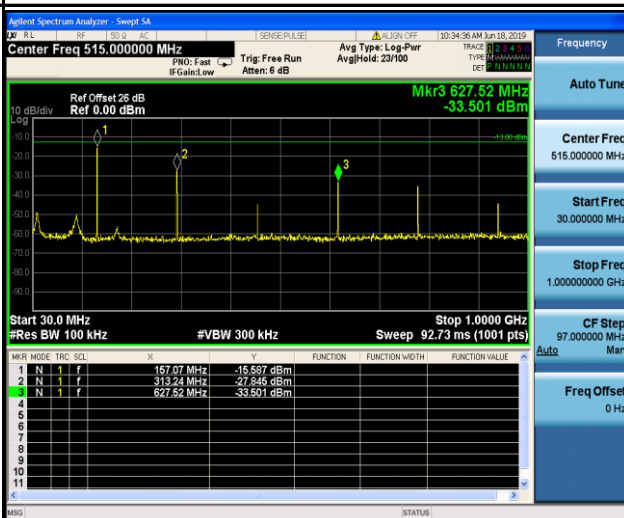
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M2}	CH _H		
TX-AWH	FM	V _N	-30	-0.400	0.189	0.187	±10	PASS
TX-AWH	FM	V _N	-20	-0.382	0.180	0.192	±10	PASS
TX-AWH	FM	V _N	-10	-0.387	0.185	0.180	±10	PASS
TX-AWH	FM	V _N	0	-0.387	0.180	0.187	±10	PASS
TX-AWH	FM	V _N	10	-0.378	0.190	0.180	±10	PASS
TX-AWH	FM	V _N	20	-0.364	0.179	0.176	±10	PASS
TX-AWH	FM	V _N	30	-0.383	0.185	0.177	±10	PASS
TX-AWH	FM	V _N	40	-0.377	0.180	0.191	±10	PASS
TX-AWH	FM	V _N	55	-0.398	<u>0.193</u>	0.178	±10	PASS
TX-AWL	FM	V _N	-30	-0.421	0.167	0.173	±10	PASS
TX-AWL	FM	V _N	-20	-0.423	0.162	0.165	±10	PASS
TX-AWL	FM	V _N	-10	-0.392	0.171	0.170	±10	PASS
TX-AWL	FM	V _N	0	-0.402	0.162	0.175	±10	PASS
TX-AWL	FM	V _N	10	-0.413	0.161	0.169	±10	PASS
TX-AWL	FM	V _N	20	-0.391	0.156	0.159	±10	PASS
TX-AWL	FM	V _N	30	-0.399	0.171	0.163	±10	PASS
TX-AWL	FM	V _N	40	-0.398	0.165	0.162	±10	PASS
TX-AWL	FM	V _N	55	-0.428	0.156	0.161	±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 _{M2}	CH _H		
TX-AWH	FM	V _N	T _N	-0.364	0.179	0.176	±10	PASS
TX-AWH	FM	V _L	T _N	-0.368	<u>0.182</u>	0.176	±10	PASS
TX-AWH	FM	V _H	T _N	-0.372	<u>0.182</u>	0.181	±10	PASS
TX-AWL	FM	V _N	T _N	-0.391	0.156	0.159	±10	PASS
TX-AWL	FM	V _L	T _N	-0.396	0.158	0.161	±10	PASS
TX-AWL	FM	V _H	T _N	-0.400	0.163	0.164	±10	PASS



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-AWH	FM	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>155.10 MHz</td><td>-14.442 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>312.27 MHz</td><td>-27.382 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>779.81 MHz</td><td>-35.035 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	155.10 MHz	-14.442 dBm				2	N	1	f	312.27 MHz	-27.382 dBm				3	N	1	f	779.81 MHz	-35.035 dBm			
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-----End of Report-----