

**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 <sub>L</sub>	36.75	4.73	5.00	-5.4	±20	PASS
TX-AWH	FM	CH <sub>M2</sub>	36.81	4.80	5.00	-4.1	±20	PASS
TX-AWH	FM	CH <sub>H</sub>	36.78	4.76	5.00	-4.7	±20	PASS
TX-AWL	FM	CH <sub>L</sub>	29.73	0.94	1.00	-6.0	±20	PASS
TX-AWL	FM	CH <sub>M2</sub>	29.69	0.93	1.00	-6.9	±20	PASS
TX-AWL	FM	CH <sub>H</sub>	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 <sub>L</sub>	15.129	15.714	≤20	PASS
TX-AWH	FM	CH <sub>M2</sub>	15.169	15.734	≤20	PASS
TX-AWH	FM	CH <sub>H</sub>	15.145	15.723	≤20	PASS
TX-AWL	FM	CH <sub>L</sub>	15.183	17.943	≤20	PASS
TX-AWL	FM	CH <sub>M2</sub>	15.181	17.922	≤20	PASS
TX-AWL	FM	CH <sub>H</sub>	15.123	17.911	≤20	PASS



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.050000 MHz</p> <p>Center Freq: 156.050000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 20 dB</p> <p>Radio Device: BTS</p> <p>Ref 36.21 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 156.1 MHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Sweep 527.2 ms</p> <p>Span 50 kHz</p> <p>Occupied Bandwidth 15.129 kHz</p> <p>Total Power 33.2 dBm</p> <p>Transmit Freq Error 125 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.71 kHz</p> <p>x dB -26.00 dB</p> <p>MSG</p> <p>STATUS</p> <p>DC Coupled</p> <p>Frequency</p> <p>Center Freq 156.050000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
TX-AWH	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.800000 MHz</p> <p>Center Freq: 156.800000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 18 dB</p> <p>Radio Device: BTS</p> <p>Ref 34.14 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 156.8 MHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Sweep 527.2 ms</p> <p>Span 50 kHz</p> <p>Occupied Bandwidth 15.169 kHz</p> <p>Total Power 31.3 dBm</p> <p>Transmit Freq Error -144 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.73 kHz</p> <p>x dB -26.00 dB</p> <p>MSG</p> <p>STATUS</p> <p>DC Coupled</p> <p>Frequency</p> <p>Center Freq 156.800000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
TX-AWH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 157.425000 MHz</p> <p>Center Freq: 157.425000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 20 dB</p> <p>Radio Device: BTS</p> <p>Ref 36.35 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 157.4 MHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Sweep 527.2 ms</p> <p>Span 50 kHz</p> <p>Occupied Bandwidth 15.145 kHz</p> <p>Total Power 33.1 dBm</p> <p>Transmit Freq Error 144 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.72 kHz</p> <p>x dB -26.00 dB</p> <p>start</p> <p>Agilent Spectrum Ana...</p> <p>Frequency</p> <p>Center Freq 157.425000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.050000 MHz</p> <p>Center Freq: 156.050000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: low</p> <p>#Atten: 20 dB</p> <p>Radio Device: BTS</p> <p>Ref 35.40 dBm</p> <p>Span 50 kHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Sweep 527.2 ms</p> <p>Occupied Bandwidth 15.183 kHz</p> <p>Total Power 32.4 dBm</p> <p>Transmit Freq Error -348 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.94 kHz</p> <p>x dB -26.00 dB</p> <p>MSG STATUS DC Coupled</p> <p>Frequency</p> <p>Center Freq 156.050000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
TX-AWL	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.800000 MHz</p> <p>Center Freq: 156.800000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: low</p> <p>#Atten: 20 dB</p> <p>Radio Device: BTS</p> <p>Ref 35.43 dBm</p> <p>Span 50 kHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Sweep 527.2 ms</p> <p>Occupied Bandwidth 15.181 kHz</p> <p>Total Power 32.6 dBm</p> <p>Transmit Freq Error -276 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.92 kHz</p> <p>x dB -26.00 dB</p> <p>MSG STATUS DC Coupled</p> <p>Frequency</p> <p>Center Freq 156.800000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
TX-AWL	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 157.425000 MHz</p> <p>Center Freq: 157.425000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: &gt;10/10</p> <p>Radio Std: None</p> <p>#IF Gain: low</p> <p>#Atten: 14 dB</p> <p>Radio Device: BTS</p> <p>Ref 30.05 dBm</p> <p>Span 50 kHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Sweep 527.2 ms</p> <p>Occupied Bandwidth 15.123 kHz</p> <p>Total Power 30.4 dBm</p> <p>Transmit Freq Error -61 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.91 kHz</p> <p>x dB -26.00 dB</p> <p>MSG STATUS DC Coupled</p> <p>Frequency</p> <p>Center Freq 157.425000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>



## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH <sub>L</sub>	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div>17 R L SENSE PULSE ALIGN OFF 10:35:58 AM Jun 18, 2019</div><div>Center Freq 156.050000 MHz Center Freq: 156.050000 MHz Radio Std: None</div><div>PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS</div><div>Ref Offset 27 dB Ref 37.0 dBm</div><div><div>Center 156.1 MHz Span 120 kHz</div><div>Total Power Ref 31.82 dBm 0.0125 MHz</div><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>&lt; Peak &gt; 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></div><div>File &lt;MASK B.state&gt; recalled (STATUS)</div></div><div>Frequency Center Freq 156.050000 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz</div></div></div>	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	—	(—)	—	—	(—)	—
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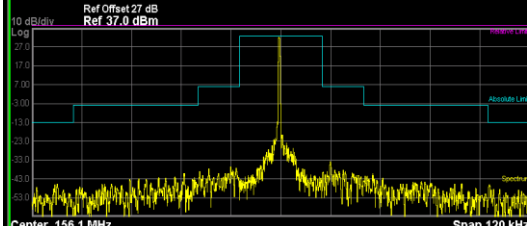
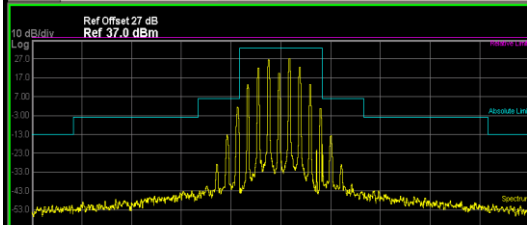
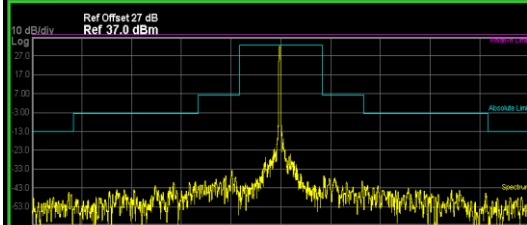


## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH <sub>M2</sub>	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div>Center Freq 156.800000 MHz</div><div>Center Freq: 156.800000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div><div>Ref Offset 27 dB</div><div>Ref 36.0 dBm</div><div>Center 156.8 MHz</div><div>Span 120 kHz</div><div>Total Power Ref 29.18 dBm 0.0125 MHz</div><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>&lt; Peak &gt; 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>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></div><div>Frequency</div><div>Center Freq 156.800000 MHz</div><div>CF Step 12.000 kHz</div><div>Man</div><div>Freq Offset 0 Hz</div></div></div>	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	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	—	(—)	—	—	(—)	—
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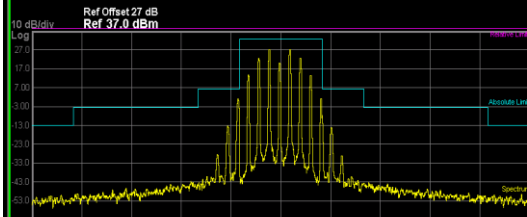
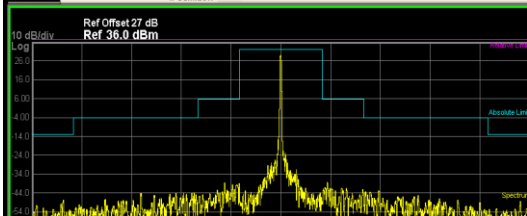
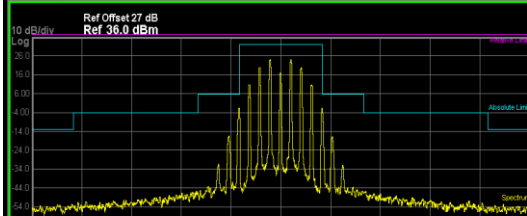


## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWL	FM	CH <sub>L</sub>	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>RL</div><div>RF</div><div>SD</div><div>AC</div></div><div>SENSE PULSE</div><div>ALIGN OFF</div><div>10:38:14 AM Jun 18, 2019</div></div><div><div>Center Freq 156.050000 MHz</div><div>Center Freq: 156.050000 MHz</div><div>Radio Std: None</div></div><div><div>PASS</div><div>If Gain: Low</div><div>Trig: Free Run</div><div>#Atten: 40 dB</div><div>Radio Device: BTS</div></div></div><div><div>Ref Offset 27 dB</div><div>Ref 37.0 dBm</div><div></div><div>Center 156.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref 31.69 dBm 0.0125 MHz</div><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>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></div><div>File &lt;MASK B.state&gt; recalled</div><div>STATUS</div></div> <div><div>Frequency</div><div>Center Freq 156.050000 MHz</div><div>CF Step 12.000 kHz Man</div><div>Freq Offset 0 Hz</div></div>	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	31.95	(-0.73)	-479.0	-19.75	(-52.43)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-36.70	(-42.88)	-12.10 k	-33.88	(-40.06)	11.92 k	20.00 kHz	50.00 kHz	300.0 Hz	-40.09	(-36.27)	-23.19 k	-40.23	(-36.41)	22.23 k	50.00 kHz	60.00 kHz	300.0 Hz	-45.68	(-32.68)	-53.88 k	-46.07	(-33.07)	50.29 k	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-AWL	FM	CH <sub>M2</sub>	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>RL</div><div>RF</div><div>SD</div><div>AC</div></div><div>SENSE PULSE</div><div>ALIGN OFF</div><div>10:33:53 AM Jun 18, 2019</div></div><div><div>Center Freq 156.800000 MHz</div><div>Center Freq: 156.800000 MHz</div><div>Radio Std: None</div></div><div><div>PASS</div><div>If Gain: Low</div><div>Trig: Free Run</div><div>#Atten: 40 dB</div><div>Radio Device: BTS</div></div></div><div><div>Ref Offset 27 dB</div><div>Ref 37.0 dBm</div><div></div><div>Center 156.8 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref 31.69 dBm 0.0125 MHz</div><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>32.12</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></div><div>File &lt;MASK B.state&gt; recalled</div><div>STATUS</div></div> <div><div>Frequency</div><div>Center Freq 156.800000 MHz</div><div>CF Step 12.000 kHz Man</div><div>Freq Offset 0 Hz</div></div>	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	32.12	(-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 <sub>M2</sub>	<div><div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div>17 R L <span>156.800000 MHz</span> <span>150.000000 MHz</span> <span>159.600000 MHz</span> <span>SENSE PULSE</span> <span>ALIGN OFF</span> <span>10:34:22 AM Jun 18, 2019</span></div><div>Center Freq: 156.800000 MHz</div><div>Center Freq: 156.800000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>PASS</div><div>IF Gain: Low</div><div>Atten: 40 dB</div><div>Radio Device: BTS</div></div><div><div>10 dB/div</div><div>Log</div><div>Ref Offset 27 dB</div><div>Ref 37.0 dBm</div><div></div><div>Center 156.8 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>31.65 dBm 0.0125 MHz</div><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>&lt; Peak &gt; 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>27.23</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>-49.69</td><td>(-36.69)</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></div><div><div>File &lt;Temp.png&gt; saved</div><div>(STATUS)</div></div></div><div><div>Frequency</div><div>Center Freq</div><div>156.800000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div></div>	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	27.23	(-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	-49.69	(-36.69)	58.02 k	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-AWL	FM	CH <sub>H</sub>	<div><div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div>17 R L <span>157.425000 MHz</span> <span>150.000000 MHz</span> <span>159.600000 MHz</span> <span>SENSE PULSE</span> <span>ALIGN OFF</span> <span>10:28:36 AM Jun 18, 2019</span></div><div>Center Freq: 157.425000 MHz</div><div>Center Freq: 157.425000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>PASS</div><div>IF Gain: Low</div><div>Atten: 40 dB</div><div>Radio Device: BTS</div></div><div><div>10 dB/div</div><div>Log</div><div>Ref Offset 27 dB</div><div>Ref 36.0 dBm</div><div></div><div>Center 157.4 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>28.58 dBm 0.0125 MHz</div><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>&lt; Peak &gt; 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>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></div><div><div>File &lt;MASK B.state&gt; recalled</div><div>(STATUS)</div></div></div><div><div>Frequency</div><div>Center Freq</div><div>157.425000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div></div>	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	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	—	(—)	—	—	(—)	—
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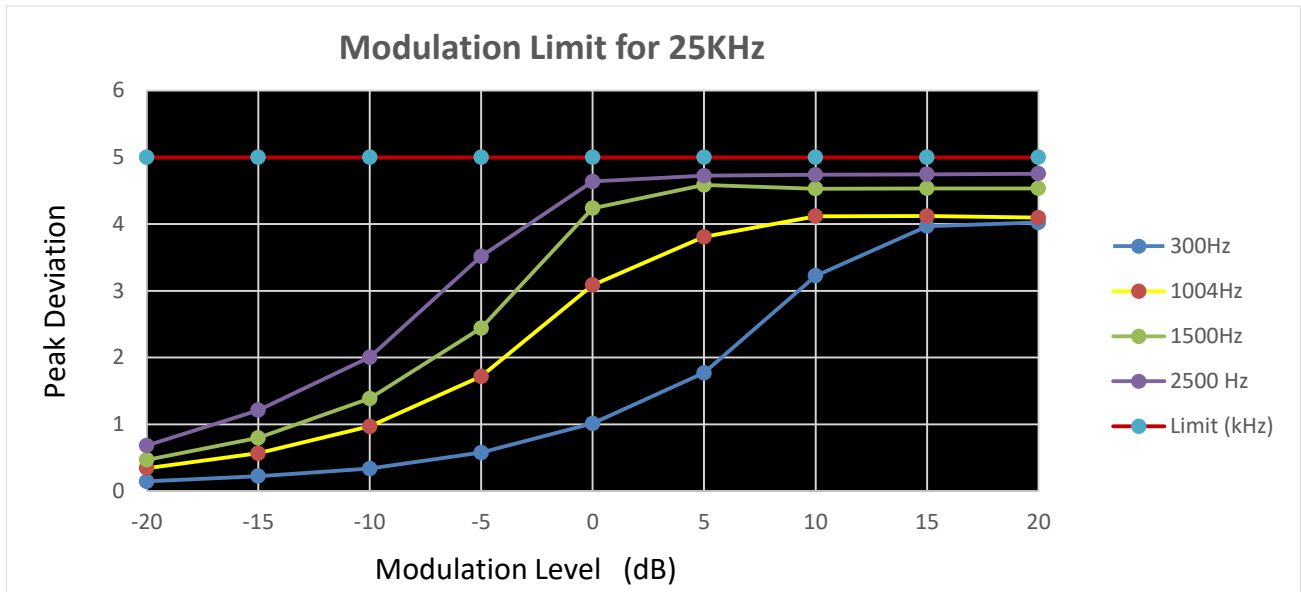
**Appendix D:Modulation Limit**

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 <sub>M2</sub>	-20	0.143	0.342	0.467	0.681	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	-15	0.224	0.566	0.796	1.212	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	-10	0.337	0.969	1.385	2.004	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	-5	0.576	1.717	2.441	3.515	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	0	1.013	3.085	4.238	4.638	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	5	1.769	3.809	4.584	4.723	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	10	3.225	4.117	4.529	4.737	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	15	3.969	4.119	4.535	4.745	5	PASS
TX-AWH	FM	CH <sub>M2</sub>	20	4.024	4.095	4.534	4.755	5	PASS



## Appendix D:Modulation Limit

### TEST PLOT RESULT



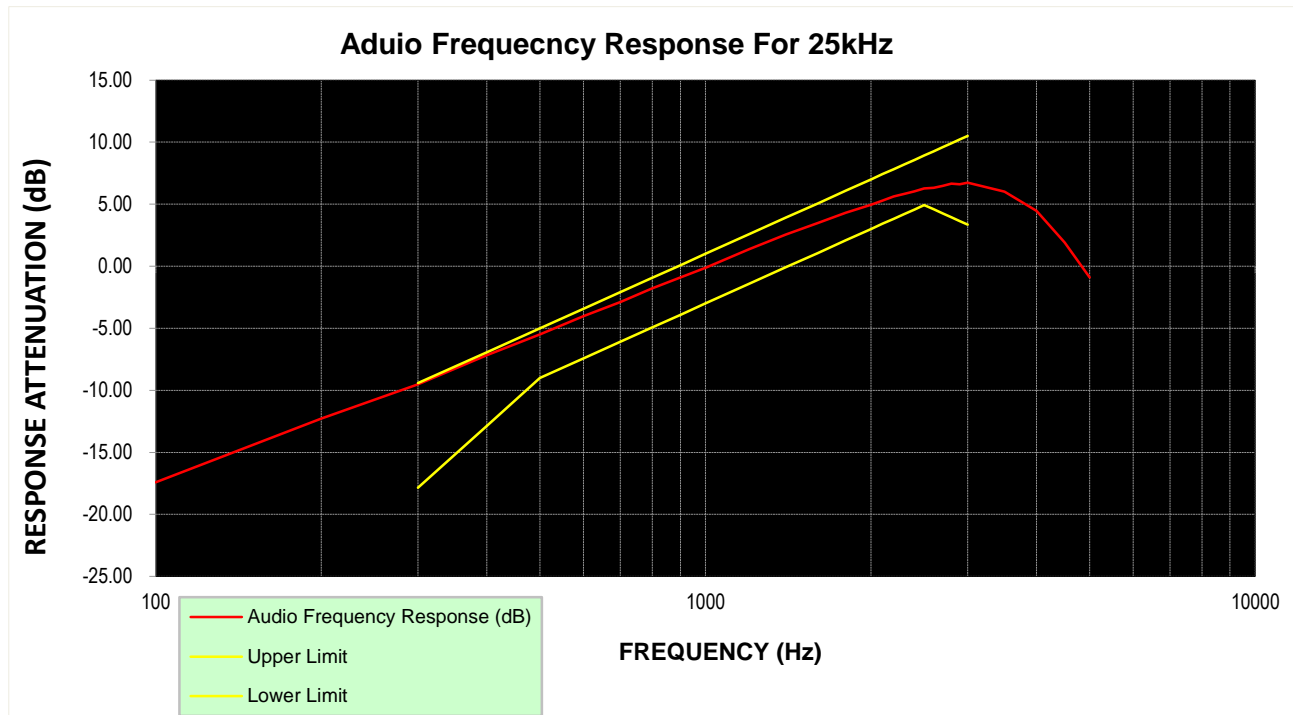
**Appendix E:Aduio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH <sub>M2</sub>	100	-17.41			PASS
TX-AWH	FM	CH <sub>M2</sub>	200	-12.28			PASS
TX-AWH	FM	CH <sub>M2</sub>	300	-9.51	-17.84	-9.42	PASS
TX-AWH	FM	CH <sub>M2</sub>	400	-7.17	-12.86	-6.93	PASS
TX-AWH	FM	CH <sub>M2</sub>	500	-5.49	-9.00	-5.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	600	-4.03	-7.42	-3.42	PASS
TX-AWH	FM	CH <sub>M2</sub>	700	-2.89	-6.09	-2.09	PASS
TX-AWH	FM	CH <sub>M2</sub>	800	-1.79	-4.93	-0.93	PASS
TX-AWH	FM	CH <sub>M2</sub>	900	-0.91	-3.91	0.09	PASS
TX-AWH	FM	CH <sub>M2</sub>	1000	-0.13	-3.00	1.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	1200	1.38	-1.42	2.58	PASS
TX-AWH	FM	CH <sub>M2</sub>	1400	2.56	-0.09	3.91	PASS
TX-AWH	FM	CH <sub>M2</sub>	1600	3.48	1.07	5.07	PASS
TX-AWH	FM	CH <sub>M2</sub>	1800	4.31	2.09	6.09	PASS
TX-AWH	FM	CH <sub>M2</sub>	2000	4.96	3.00	7.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	2100	5.29	3.42	7.42	PASS
TX-AWH	FM	CH <sub>M2</sub>	2200	5.63	3.83	7.83	PASS
TX-AWH	FM	CH <sub>M2</sub>	2300	5.83	4.21	8.21	PASS
TX-AWH	FM	CH <sub>M2</sub>	2400	6.05	4.58	8.58	PASS
TX-AWH	FM	CH <sub>M2</sub>	2500	6.26	4.93	8.93	PASS
TX-AWH	FM	CH <sub>M2</sub>	2600	6.32	4.59	9.27	PASS
TX-AWH	FM	CH <sub>M2</sub>	2700	6.49	4.27	9.60	PASS
TX-AWH	FM	CH <sub>M2</sub>	2800	6.65	3.95	9.91	PASS
TX-AWH	FM	CH <sub>M2</sub>	2900	6.61	3.65	10.22	PASS
TX-AWH	FM	CH <sub>M2</sub>	3000	6.73	3.35	10.51	PASS
TX-AWH	FM	CH <sub>M2</sub>	3500	6.01			PASS
TX-AWH	FM	CH <sub>M2</sub>	4000	4.47			PASS
TX-AWH	FM	CH <sub>M2</sub>	4500	1.92			PASS
TX-AWH	FM	CH <sub>M2</sub>	5000	-0.89			PASS



## Appendix E:Aduio Frequency Response

### TEST PLOT RESULT



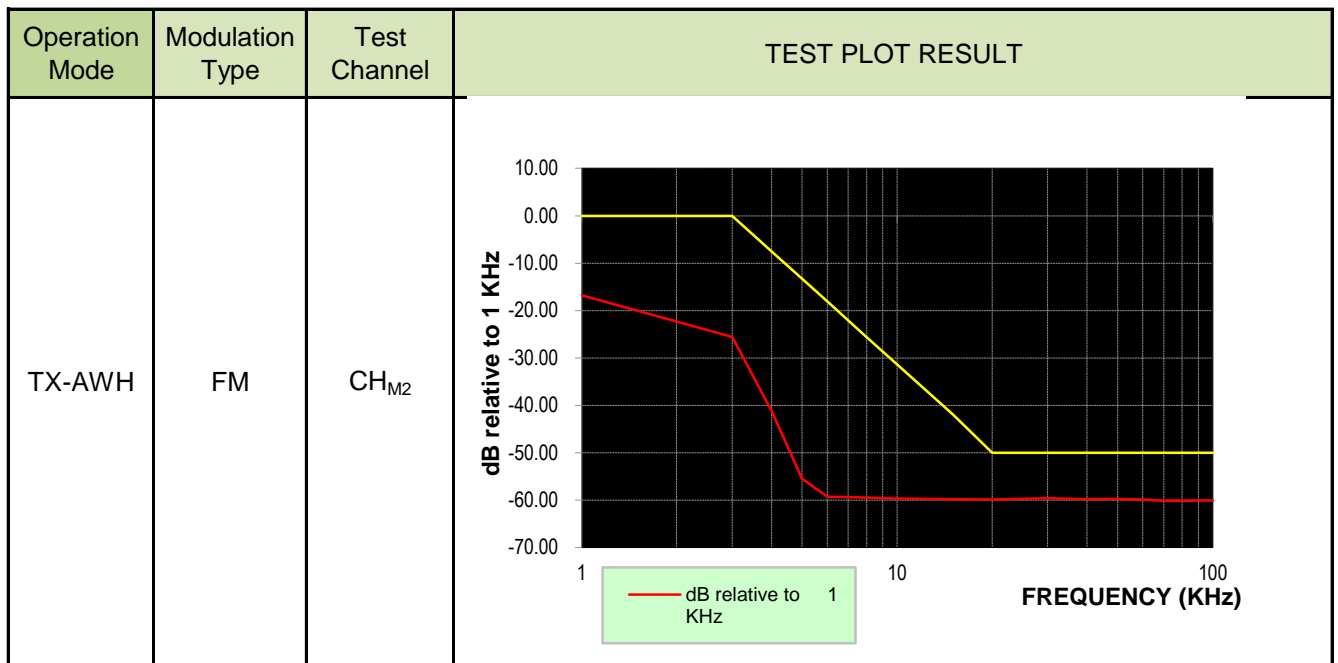
Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

**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 <sub>M2</sub>	1	-16.77	0.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	3	-25.58	0.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	4	-41.19	-7.50	PASS
TX-AWH	FM	CH <sub>M2</sub>	5	-55.52	-13.30	PASS
TX-AWH	FM	CH <sub>M2</sub>	6	-59.26	-18.10	PASS
TX-AWH	FM	CH <sub>M2</sub>	8	-59.45	-25.60	PASS
TX-AWH	FM	CH <sub>M2</sub>	10	-59.67	-31.40	PASS
TX-AWH	FM	CH <sub>M2</sub>	15	-59.84	-41.90	PASS
TX-AWH	FM	CH <sub>M2</sub>	20	-59.91	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	30	-59.64	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	40	-59.83	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	50	-59.72	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	60	-59.91	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	70	-60.13	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	80	-60.12	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	90	-60.09	-50.00	PASS
TX-AWH	FM	CH <sub>M2</sub>	100	-60.11	-50.00	PASS



## Appendix F:Audio Low Pass Filter Response



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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M2</sub>	CH <sub>H</sub>		
TX-AWH	FM	V <sub>N</sub>	-30	-0.400	0.189	0.187	±10	PASS
TX-AWH	FM	V <sub>N</sub>	-20	-0.382	0.180	0.192	±10	PASS
TX-AWH	FM	V <sub>N</sub>	-10	-0.387	0.185	0.180	±10	PASS
TX-AWH	FM	V <sub>N</sub>	0	-0.387	0.180	0.187	±10	PASS
TX-AWH	FM	V <sub>N</sub>	10	-0.378	0.190	0.180	±10	PASS
TX-AWH	FM	V <sub>N</sub>	20	-0.364	0.179	0.176	±10	PASS
TX-AWH	FM	V <sub>N</sub>	30	-0.383	0.185	0.177	±10	PASS
TX-AWH	FM	V <sub>N</sub>	40	-0.377	0.180	0.191	±10	PASS
TX-AWH	FM	V <sub>N</sub>	55	-0.398	<b><u>0.193</u></b>	0.178	±10	PASS
TX-AWL	FM	V <sub>N</sub>	-30	-0.421	0.167	0.173	±10	PASS
TX-AWL	FM	V <sub>N</sub>	-20	-0.423	0.162	0.165	±10	PASS
TX-AWL	FM	V <sub>N</sub>	-10	-0.392	0.171	0.170	±10	PASS
TX-AWL	FM	V <sub>N</sub>	0	-0.402	0.162	0.175	±10	PASS
TX-AWL	FM	V <sub>N</sub>	10	-0.413	0.161	0.169	±10	PASS
TX-AWL	FM	V <sub>N</sub>	20	-0.391	0.156	0.159	±10	PASS
TX-AWL	FM	V <sub>N</sub>	30	-0.399	0.171	0.163	±10	PASS
TX-AWL	FM	V <sub>N</sub>	40	-0.398	0.165	0.162	±10	PASS
TX-AWL	FM	V <sub>N</sub>	55	-0.428	0.156	0.161	±10	PASS

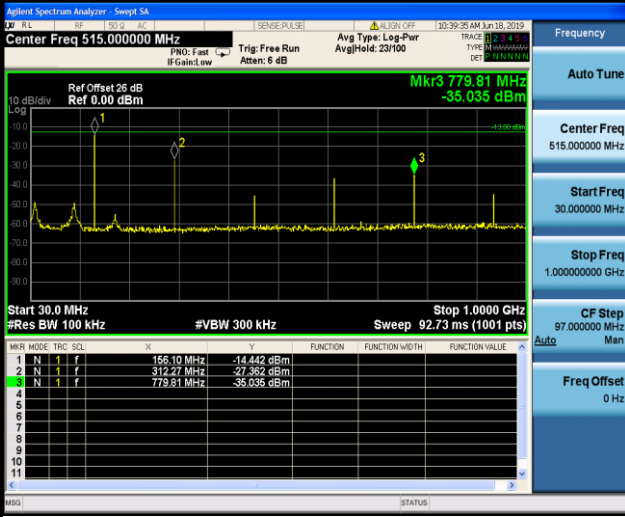
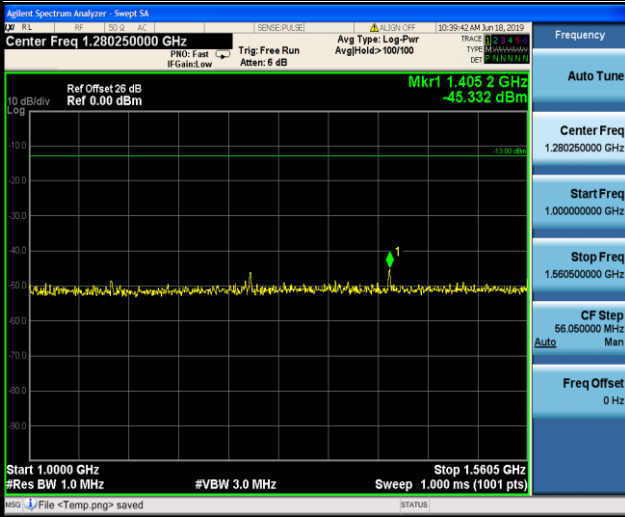
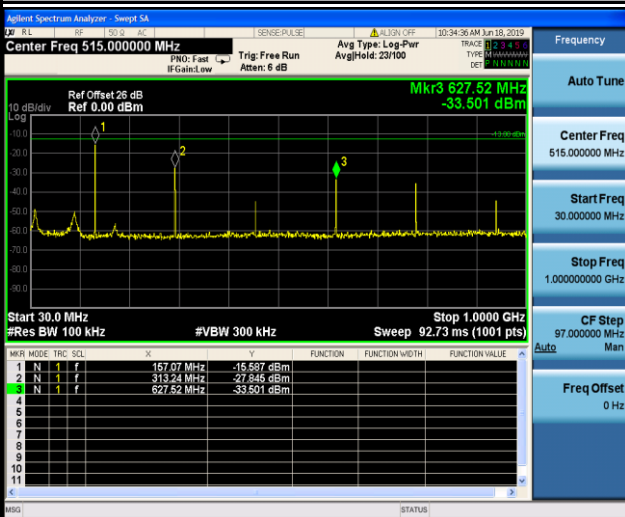
**Appendix H:Frequency Stability Test & Voltage**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M2</sub>	CH <sub>H</sub>		
TX-AWH	FM	V <sub>N</sub>	T <sub>N</sub>	-0.364	0.179	0.176	±10	PASS
TX-AWH	FM	V <sub>L</sub>	T <sub>N</sub>	-0.368	<b><u>0.182</u></b>	0.176	±10	PASS
TX-AWH	FM	V <sub>H</sub>	T <sub>N</sub>	-0.372	<b><u>0.182</u></b>	0.181	±10	PASS
TX-AWL	FM	V <sub>N</sub>	T <sub>N</sub>	-0.391	0.156	0.159	±10	PASS
TX-AWL	FM	V <sub>L</sub>	T <sub>N</sub>	-0.396	0.158	0.161	±10	PASS
TX-AWL	FM	V <sub>H</sub>	T <sub>N</sub>	-0.400	0.163	0.164	±10	PASS



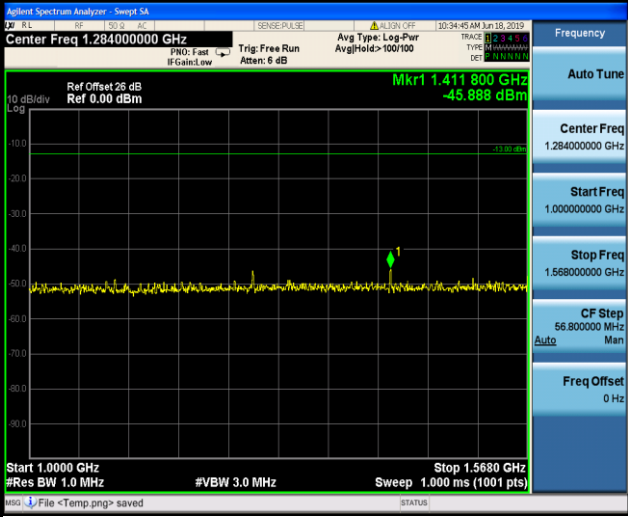
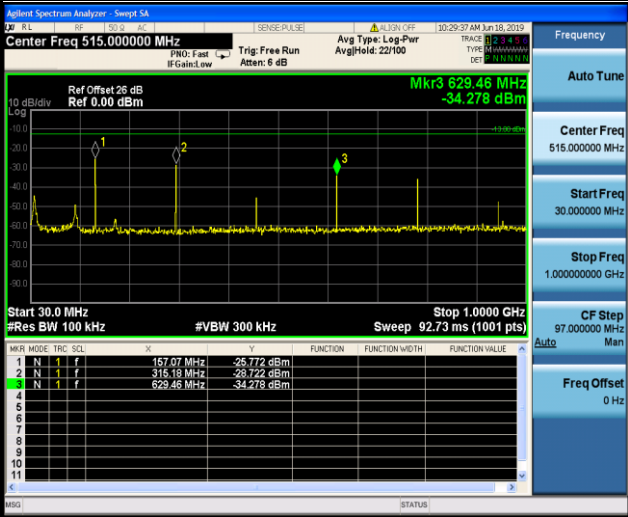
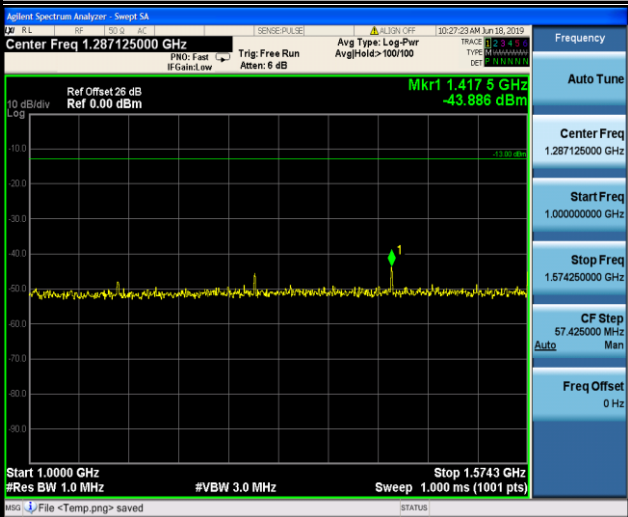


## Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH <sub>L</sub>	<div><p>30MHz~1GHz</p></div>
TX-AWH	FM	CH <sub>L</sub>	<div><p>1GHz~10th Harmonic</p></div>
TX-AWH	FM	CH <sub>M2</sub>	<div><p>30MHz~1GHz</p></div>



## Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH <sub>M2</sub>	 <p>1GHz~10th Harmonic</p>
TX-AWH	FM	CH <sub>H</sub>	 <p>30MHz~1GHz</p>
TX-AWH	FM	CH <sub>H</sub>	 <p>1GHz~10th Harmonic</p>

----End of Report----