

Project No.	SHT2407005802W		
Test sample No.	YPHT24070058001	Model No.	GX2410GPS
Start test date	2024/7/11	Finish date	2024/7/15
Temperature	24.9°C	Humidity	50%
Test Engineer	Xiangyu Wei	Auditor	<i>Xiaodong Zhao</i>

Appendix clause	Test Item	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	PASS
B	Occupied Bandwidth	PASS
C	Emission Mask	PASS
D	Modulation Limit	PASS
E	Aduio Frequency Response	PASS
F	Audio Low Pass Filter Response	PASS
G	Frequency Stability Test & Temperature	PASS
H	Frequency Stability Test & Voltage	PASS
I	Spurious Emission On Antenna Port	PASS

Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Limit(W)	Result
TX-AWH	FM	CH _L	43.91	24.60	25	PASS
TX-AWH	FM	CH _M	43.92	24.66	25	PASS
TX-AWH	FM	CH _H	43.89	24.49	25	PASS
TX-AWL	FM	CH _L	28.50	0.71	25	PASS
TX-AWL	FM	CH _M	28.70	0.74	25	PASS
TX-AWL	FM	CH _H	28.30	0.68	25	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	14.92	15.67	≤20	PASS
TX-AWH	FM	CH _M	14.97	15.67	≤20	PASS
TX-AWH	FM	CH _H	15.02	15.70	≤20	PASS
TX-AWL	FM	CH _L	14.92	15.66	≤20	PASS
TX-AWL	FM	CH _M	14.98	15.67	≤20	PASS
TX-AWL	FM	CH _H	15.01	15.69	≤20	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Trig: Free Run Avg/Hold: >10/10 #IF Gain: Low #Atten: 38 dB Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 48.10 dBm Log Center 156 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.923 kHz Total Power 45.2 dBm Transmit Freq Error 100 Hz OBW Power 99.00 % x dB Bandwidth 15.67 kHz x dB -26.00 dB</p> <p>Frequency 156.025000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p> <p>STATUS DC Coupled</p>
TX-AWH	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Trig: Free Run Avg/Hold: >10/10 #IF Gain: Low #Atten: 38 dB Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 47.97 dBm Log Center 156.8 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.971 kHz Total Power 45.1 dBm Transmit Freq Error 273 Hz OBW Power 99.00 % x dB Bandwidth 15.67 kHz x dB -26.00 dB</p> <p>Frequency 156.800000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p> <p>STATUS DC Coupled</p>
TX-AWH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Trig: Free Run Avg/Hold: >10/10 #IF Gain: Low #Atten: 38 dB Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 48.13 dBm Log Center 157.4 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 15.016 kHz Total Power 45.2 dBm Transmit Freq Error 319 Hz OBW Power 99.00 % x dB Bandwidth 15.70 kHz x dB -26.00 dB</p> <p>Frequency 157.425000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p> <p>STATUS DC Coupled</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.025000 MHz</p> <p>Center Freq: 156.025000 MHz</p> <p>Occupied Bandwidth: 14.916 kHz</p> <p>Total Power: 29.7 dBm</p> <p>Transmit Freq Error: 143 Hz</p> <p>x dB Bandwidth: 15.66 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-AWL	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.800000 MHz</p> <p>Center Freq: 156.800000 MHz</p> <p>Occupied Bandwidth: 14.979 kHz</p> <p>Total Power: 29.6 dBm</p> <p>Transmit Freq Error: 501 Hz</p> <p>x dB Bandwidth: 15.67 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-AWL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 157.425000 MHz</p> <p>Center Freq: 157.425000 MHz</p> <p>Occupied Bandwidth: 15.006 kHz</p> <p>Total Power: 29.8 dBm</p> <p>Transmit Freq Error: 400 Hz</p> <p>x dB Bandwidth: 15.69 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>

Appendix C:Emission Mask

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TX-AWH	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 21 dB Ref 50.0 dBm</p> <p>Center 156 MHz Span 120 kHz</p> <p>Total Power Ref 44.09 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>44.48</td> <td>(-11.12)</td> <td>-179.6</td> <td>43.78</td> <td>(-11.81)</td> <td>0.0</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-23.56</td> <td>(-42.65)</td> <td>-11.98 k</td> <td>-22.25</td> <td>(-41.34)</td> <td>10.48 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-28.32</td> <td>(-37.41)</td> <td>-21.75 k</td> <td>-25.61</td> <td>(-34.70)</td> <td>22.41 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-35.25</td> <td>(-22.25)</td> <td>-50.17 k</td> <td>-35.63</td> <td>(-22.63)</td> <td>51.73 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>	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	44.48	(-11.12)	-179.6	43.78	(-11.81)	0.0	10.00 kHz	20.00 kHz	300.0 Hz	-23.56	(-42.65)	-11.98 k	-22.25	(-41.34)	10.48 k	20.00 kHz	50.00 kHz	300.0 Hz	-28.32	(-37.41)	-21.75 k	-25.61	(-34.70)	22.41 k	50.00 kHz	60.00 kHz	300.0 Hz	-35.25	(-22.25)	-50.17 k	-35.63	(-22.63)	51.73 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 _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 156.800000 MHz</p> <p>Ref Offset: 21 dB, Ref: 49.0 dBm</p> <p>Total Power Ref: 43.95 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>39.55</td> <td>(-5.92)</td> <td>-2.156 k</td> <td>39.62</td> <td>(-5.86)</td> <td>2.874 k</td> <td>10.30 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>1.853</td> <td>(-17.32)</td> <td>-10.00 k</td> <td>9.424</td> <td>(-9.55)</td> <td>10.30 k</td> <td>20.31 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-20.72</td> <td>(-29.69)</td> <td>-22.17 k</td> <td>-24.97</td> <td>(-33.94)</td> <td>-20.31 k</td> <td>50.35 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-38.58</td> <td>(-25.58)</td> <td>-50.29 k</td> <td>-38.97</td> <td>(-25.97)</td> <td>-50.35 k</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	39.55	(-5.92)	-2.156 k	39.62	(-5.86)	2.874 k	10.30 k	10.00 kHz	20.00 kHz	300.0 Hz	1.853	(-17.32)	-10.00 k	9.424	(-9.55)	10.30 k	20.31 k	20.00 kHz	50.00 kHz	300.0 Hz	-20.72	(-29.69)	-22.17 k	-24.97	(-33.94)	-20.31 k	50.35 k	50.00 kHz	60.00 kHz	300.0 Hz	-38.58	(-25.58)	-50.29 k	-38.97	(-25.97)	-50.35 k	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
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TX-AWH	FM	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 157.425000 MHz</p> <p>Ref Offset: 21 dB, Ref: 50.0 dBm</p> <p>Total Power Ref: 44.06 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>44.23</td> <td>(-1.27)</td> <td>0.0</td> <td>44.46</td> <td>(-1.05)</td> <td>179.6</td> <td>13.54 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-25.14</td> <td>(-44.15)</td> <td>-11.44 k</td> <td>-23.26</td> <td>(-42.27)</td> <td>13.54 k</td> <td>23.13 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-30.03</td> <td>(-39.04)</td> <td>-29.00 k</td> <td>-28.77</td> <td>(-37.78)</td> <td>23.13 k</td> <td>55.02 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-35.29</td> <td>(-22.29)</td> <td>-57.60 k</td> <td>-34.03</td> <td>(-21.03)</td> <td>55.02 k</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	44.23	(-1.27)	0.0	44.46	(-1.05)	179.6	13.54 k	10.00 kHz	20.00 kHz	300.0 Hz	-25.14	(-44.15)	-11.44 k	-23.26	(-42.27)	13.54 k	23.13 k	20.00 kHz	50.00 kHz	300.0 Hz	-30.03	(-39.04)	-29.00 k	-28.77	(-37.78)	23.13 k	55.02 k	50.00 kHz	60.00 kHz	300.0 Hz	-35.29	(-22.29)	-57.60 k	-34.03	(-21.03)	55.02 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 _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 156.025000 MHz SENSE:PULSE ALIGN:AUTO 10:06:27 AM Jul 12, 2024</p> <p>Center Freq: 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 21 dB Ref 34.0 dBm</p> <p>10 dB/div Log</p> <p>Center 156 MHz Span 120 kHz</p> <p>Total Power Ref: 28.71 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>28.20</td> <td>(0.99)</td> <td>0.0</td> <td>29.20</td> <td>(0.99)</td> <td>0.0</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-38.18</td> <td>(-38.87)</td> <td>-10.54 k</td> <td>-39.58</td> <td>(-43.25)</td> <td>15.52 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-45.27</td> <td>(-38.96)</td> <td>-20.00 k</td> <td>-43.12</td> <td>(-36.80)</td> <td>20.19 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-48.57</td> <td>(-35.57)</td> <td>-50.95 k</td> <td>-51.78</td> <td>(-38.78)</td> <td>53.88 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>	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	28.20	(0.99)	0.0	29.20	(0.99)	0.0	10.00 kHz	20.00 kHz	300.0 Hz	-38.18	(-38.87)	-10.54 k	-39.58	(-43.25)	15.52 k	20.00 kHz	50.00 kHz	300.0 Hz	-45.27	(-38.96)	-20.00 k	-43.12	(-36.80)	20.19 k	50.00 kHz	60.00 kHz	300.0 Hz	-48.57	(-35.57)	-50.95 k	-51.78	(-38.78)	53.88 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 _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 156.025000 MHz SENSE:PULSE ALIGN:AUTO 10:07:15 AM Jul 12, 2024</p> <p>Center Freq: 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 21 dB Ref 34.0 dBm</p> <p>10 dB/div Log</p> <p>Center 156 MHz Span 120 kHz</p> <p>Total Power Ref: 28.71 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>24.31</td> <td>(-5.88)</td> <td>-2.275 k</td> <td>24.38</td> <td>(-5.80)</td> <td>2.635 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-7.216</td> <td>(-10.90)</td> <td>-10.00 k</td> <td>-6.268</td> <td>(-9.96)</td> <td>10.18 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-39.84</td> <td>(-30.53)</td> <td>-20.00 k</td> <td>-41.83</td> <td>(-35.52)</td> <td>20.07 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-52.74</td> <td>(-37.74)</td> <td>-51.13 k</td> <td>-53.21</td> <td>(-40.21)</td> <td>54.00 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>	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	24.31	(-5.88)	-2.275 k	24.38	(-5.80)	2.635 k	10.00 kHz	20.00 kHz	300.0 Hz	-7.216	(-10.90)	-10.00 k	-6.268	(-9.96)	10.18 k	20.00 kHz	50.00 kHz	300.0 Hz	-39.84	(-30.53)	-20.00 k	-41.83	(-35.52)	20.07 k	50.00 kHz	60.00 kHz	300.0 Hz	-52.74	(-37.74)	-51.13 k	-53.21	(-40.21)	54.00 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 _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 156.800000 MHz SENSE:PULSE ALIGN:AUTO 10:40:50 AM Jul 12, 2024</p> <p>Center Freq: 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 21 dB Ref 34.0 dBm</p> <p>10 dB/div Log</p> <p>Center 156.8 MHz Span 120 kHz</p> <p>Total Power Ref: 28.44 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>12.04</td> <td>(-17.93)</td> <td>0.0</td> <td>28.76</td> <td>(-1.21)</td> <td>239.5</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-39.37</td> <td>(-42.84)</td> <td>-10.60 k</td> <td>-38.36</td> <td>(-41.82)</td> <td>13.96 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-42.65</td> <td>(-36.12)</td> <td>-20.73 k</td> <td>-44.77</td> <td>(-38.24)</td> <td>22.23 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-50.04</td> <td>(-37.04)</td> <td>-52.93 k</td> <td>-51.17</td> <td>(-38.17)</td> <td>52.93 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>	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	12.04	(-17.93)	0.0	28.76	(-1.21)	239.5	10.00 kHz	20.00 kHz	300.0 Hz	-39.37	(-42.84)	-10.60 k	-38.36	(-41.82)	13.96 k	20.00 kHz	50.00 kHz	300.0 Hz	-42.65	(-36.12)	-20.73 k	-44.77	(-38.24)	22.23 k	50.00 kHz	60.00 kHz	300.0 Hz	-50.04	(-37.04)	-52.93 k	-51.17	(-38.17)	52.93 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 _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 156.800000 MHz</p> <p>Ref Offset: 21 dB, Ref: 34.0 dBm</p> <p>Total Power Ref: 28.38 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>24.01</td> <td>(-5.96)</td> <td>-2.036 k</td> <td>24.03</td> <td>(-5.94)</td> <td>2.934 k</td> <td>2.934 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>21.25</td> <td>(-24.72)</td> <td>-11.98 k</td> <td>-5.378</td> <td>(-8.85)</td> <td>10.48 k</td> <td>10.48 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-35.84</td> <td>(-29.31)</td> <td>-21.99 k</td> <td>-39.93</td> <td>(-33.40)</td> <td>20.49 k</td> <td>20.49 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-53.60</td> <td>(-40.60)</td> <td>-54.54 k</td> <td>-54.24</td> <td>(-41.24)</td> <td>50.83 k</td> <td>50.83 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> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	24.01	(-5.96)	-2.036 k	24.03	(-5.94)	2.934 k	2.934 k	10.00 kHz	20.00 kHz	300.0 Hz	21.25	(-24.72)	-11.98 k	-5.378	(-8.85)	10.48 k	10.48 k	20.00 kHz	50.00 kHz	300.0 Hz	-35.84	(-29.31)	-21.99 k	-39.93	(-33.40)	20.49 k	20.49 k	50.00 kHz	60.00 kHz	300.0 Hz	-53.60	(-40.60)	-54.54 k	-54.24	(-41.24)	50.83 k	50.83 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 _M	-20	0.147	0.340	0.491	0.732	5	PASS
TX-AWH	FM	CH _M	-15	0.196	0.572	0.824	1.255	5	PASS
TX-AWH	FM	CH _M	-10	0.310	0.968	1.428	2.182	5	PASS
TX-AWH	FM	CH _M	-5	0.514	1.712	2.534	3.760	5	PASS
TX-AWH	FM	CH _M	0	0.883	3.018	4.004	4.307	5	PASS
TX-AWH	FM	CH _M	5	1.548	4.106	4.388	4.399	5	PASS
TX-AWH	FM	CH _M	10	2.716	4.533	4.497	4.436	5	PASS
TX-AWH	FM	CH _M	15	4.132	4.708	4.446	4.510	5	PASS
TX-AWH	FM	CH _M	20	4.818	4.781	4.545	4.501	5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

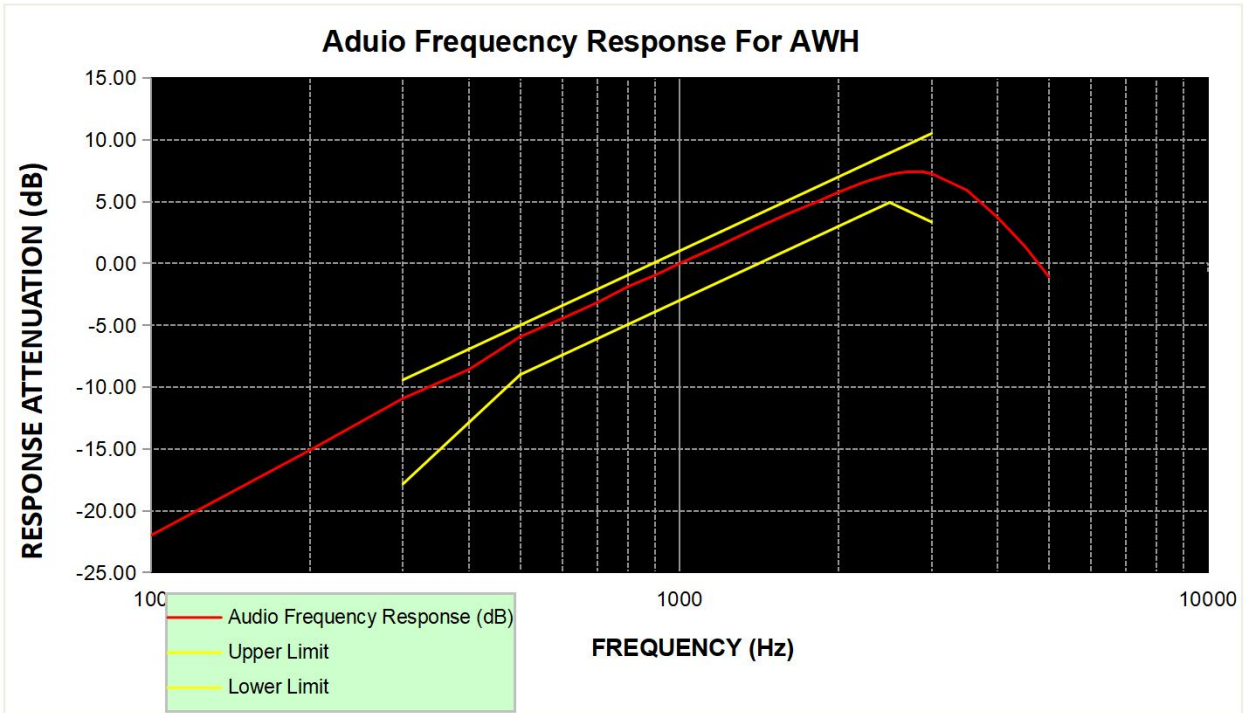


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH _M	100	-22.01			PASS
TX-AWH	FM	CH _M	200	-15.11			PASS
TX-AWH	FM	CH _M	300	-10.92	-17.84	-9.42	PASS
TX-AWH	FM	CH _M	400	-8.58	-12.86	-6.93	PASS
TX-AWH	FM	CH _M	500	-5.93	-9.00	-5.00	PASS
TX-AWH	FM	CH _M	600	-4.46	-7.42	-3.42	PASS
TX-AWH	FM	CH _M	700	-3.16	-6.09	-2.09	PASS
TX-AWH	FM	CH _M	800	-1.87	-4.93	-0.93	PASS
TX-AWH	FM	CH _M	900	-0.95	-3.91	0.09	PASS
TX-AWH	FM	CH _M	1000	-0.02	-3.00	1.00	PASS
TX-AWH	FM	CH _M	1200	1.51	-1.42	2.58	PASS
TX-AWH	FM	CH _M	1400	2.87	-0.09	3.91	PASS
TX-AWH	FM	CH _M	1600	3.99	1.07	5.07	PASS
TX-AWH	FM	CH _M	1800	4.90	2.09	6.09	PASS
TX-AWH	FM	CH _M	2000	5.76	3.00	7.00	PASS
TX-AWH	FM	CH _M	2100	6.12	3.42	7.42	PASS
TX-AWH	FM	CH _M	2200	6.46	3.83	7.83	PASS
TX-AWH	FM	CH _M	2300	6.74	4.21	8.21	PASS
TX-AWH	FM	CH _M	2400	6.97	4.58	8.58	PASS
TX-AWH	FM	CH _M	2500	7.18	4.93	8.93	PASS
TX-AWH	FM	CH _M	2600	7.32	4.59	9.27	PASS
TX-AWH	FM	CH _M	2700	7.41	4.27	9.60	PASS
TX-AWH	FM	CH _M	2800	7.42	3.95	9.91	PASS
TX-AWH	FM	CH _M	2900	7.38	3.65	10.22	PASS
TX-AWH	FM	CH _M	3000	7.27	3.35	10.51	PASS
TX-AWH	FM	CH _M	3500	5.93			PASS
TX-AWH	FM	CH _M	4000	3.72			PASS
TX-AWH	FM	CH _M	4500	1.41			PASS
TX-AWH	FM	CH _M	5000	-1.07			PASS

Appendix E:Aduio Frequency Response

TEST PLOT RESULT



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	-17.01	0.00	PASS
TX-AWH	FM	CH _M	3	-26.83	0.00	PASS
TX-AWH	FM	CH _M	4	-42.51	-7.50	PASS
TX-AWH	FM	CH _M	5	-54.27	-13.30	PASS
TX-AWH	FM	CH _M	6	-55.61	-18.10	PASS
TX-AWH	FM	CH _M	8	-56.74	-25.60	PASS
TX-AWH	FM	CH _M	10	-57.72	-31.40	PASS
TX-AWH	FM	CH _M	15	-57.84	-41.90	PASS
TX-AWH	FM	CH _M	20	-58.00	-50.00	PASS
TX-AWH	FM	CH _M	30	-58.62	-50.00	PASS
TX-AWH	FM	CH _M	40	-58.64	-50.00	PASS
TX-AWH	FM	CH _M	50	-58.64	-50.00	PASS
TX-AWH	FM	CH _M	60	-58.65	-50.00	PASS
TX-AWH	FM	CH _M	70	-58.64	-50.00	PASS
TX-AWH	FM	CH _M	80	-58.63	-50.00	PASS
TX-AWH	FM	CH _M	90	-58.64	-50.00	PASS
TX-AWH	FM	CH _M	100	-58.65	-50.00	PASS

Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _M	<p>The graph displays the audio low pass filter response. The y-axis represents the gain in dB relative to 1 kHz, ranging from -70.00 to 10.00. The x-axis represents the frequency in kHz on a logarithmic scale from 1 to 100. A red line shows the measured response, and a yellow line shows the limit. The measured response starts at approximately -18 dB at 1 kHz, drops to -28 dB at 2 kHz, then to -55 dB at 5 kHz, and levels off around -58 dB. The limit line starts at 0 dB, drops to -28 dB at 2 kHz, and then to -50 dB at 10 kHz, remaining constant thereafter.</p>

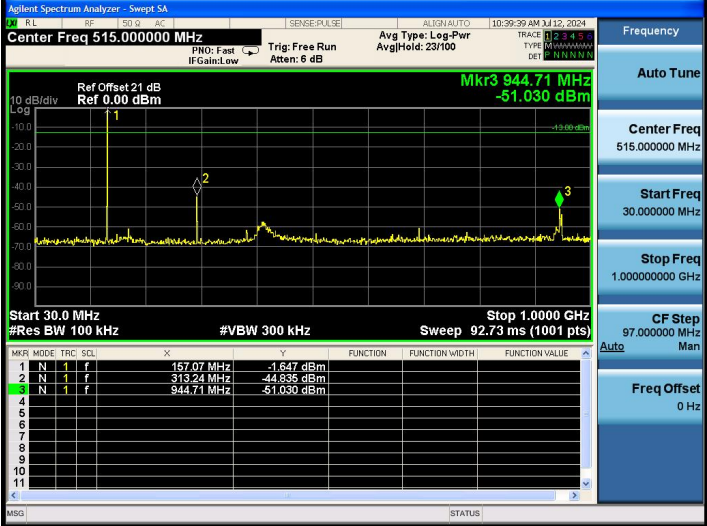
Appendix G:Frequency Stability Test & Temperature

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	-20	0.027	1.440	0.924	±10	PASS
TX-AWH	FM	V _N	-10	0.028	1.506	0.950	±10	PASS
TX-AWH	FM	V _N	0	0.026	1.468	0.888	±10	PASS
TX-AWH	FM	V _N	10	0.027	1.489	0.893	±10	PASS
TX-AWH	FM	V _N	20	0.026	1.417	0.868	±10	PASS
TX-AWH	FM	V _N	30	0.028	1.522	0.944	±10	PASS
TX-AWH	FM	V _N	40	0.026	1.529	0.888	±10	PASS
TX-AWH	FM	V _N	50	0.027	1.460	0.949	±10	PASS
TX-AWL	FM	V _N	-20	0.480	1.319	1.080	±10	PASS
TX-AWL	FM	V _N	-10	0.448	1.366	1.042	±10	PASS
TX-AWL	FM	V _N	0	0.456	1.324	1.088	±10	PASS
TX-AWL	FM	V _N	10	0.456	1.322	1.053	±10	PASS
TX-AWL	FM	V _N	20	0.438	1.297	1.028	±10	PASS
TX-AWL	FM	V _N	30	0.477	1.385	1.110	±10	PASS
TX-AWL	FM	V _N	40	0.478	1.327	1.114	±10	PASS
TX-AWL	FM	V _N	50	0.470	1.399	1.050	±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	0.026	1.417	0.868	±10	PASS
TX-AWH	FM	V _L	T _N	0.027	1.444	0.879	±10	PASS
TX-AWH	FM	V _H	T _N	0.028	1.462	0.873	±10	PASS
TX-AWL	FM	V _N	T _N	0.438	1.297	1.028	±10	PASS
TX-AWL	FM	V _L	T _N	0.445	1.314	1.049	±10	PASS
TX-AWL	FM	V _H	T _N	0.445	1.348	1.090	±10	PASS

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-AWH	FM	CHL	 <table border="1" data-bbox="596 683 1189 828"> <thead> <tr> <th>MKRF</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> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>156.10 MHz</td> <td>-0.564 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>-44.439 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>945.68 MHz</td> <td>-48.308 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKRF	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	156.10 MHz	-0.564 dBm				2	N	1	f	312.27 MHz	-44.439 dBm				3	N	1	f	945.68 MHz	-48.308 dBm			
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TX-AWH	FM	CHL	 <table border="1" data-bbox="596 1377 1189 1411"> <thead> <tr> <th>MKRF</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> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.224 2 GHz</td> <td>-52.917 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKRF	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.224 2 GHz	-52.917 dBm																					
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-AWH	FM	CH _M	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.28400000 GHz Mkr1 1.262416 GHz -53.623 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.5680 GHz</p>																																																																																																												
TX-AWH	FM	CH _H	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Mkr3 945.68 MHz -53.816 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 02.73 ms (1001 pts) Stop 1.0000 GHz</p> <table border="1"> <thead> <tr> <th>MKR</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> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>457.07 MHz</td> <td>-8.974 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>515.10 MHz</td> <td>-45.305 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>945.68 MHz</td> <td>-53.816 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	457.07 MHz	-8.974 dBm				2	N	1	f	515.10 MHz	-45.305 dBm				3	N	1	f	945.68 MHz	-53.816 dBm				4									5									6									7									8									9									10									11								
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----End of Report----