

**Appendix A:Maximum Transmitter Power**

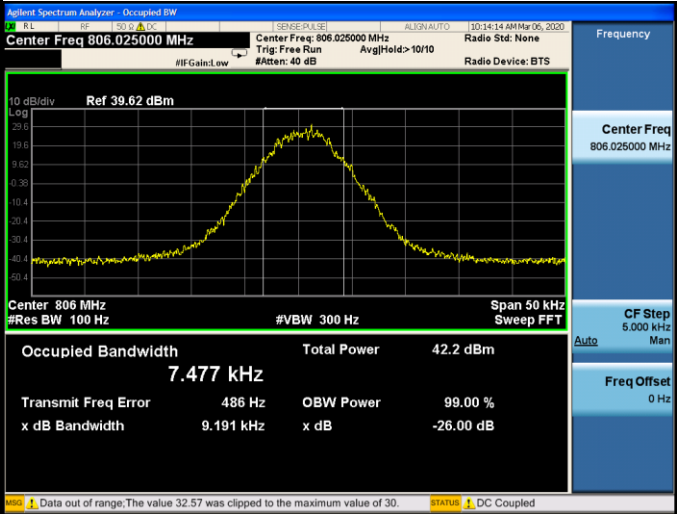
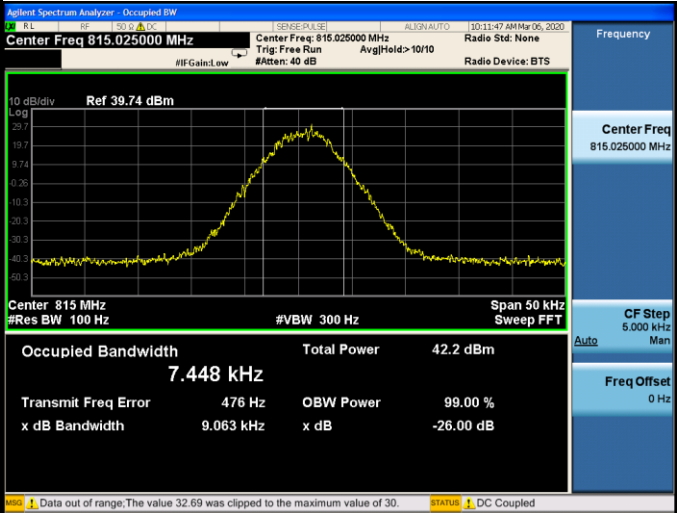
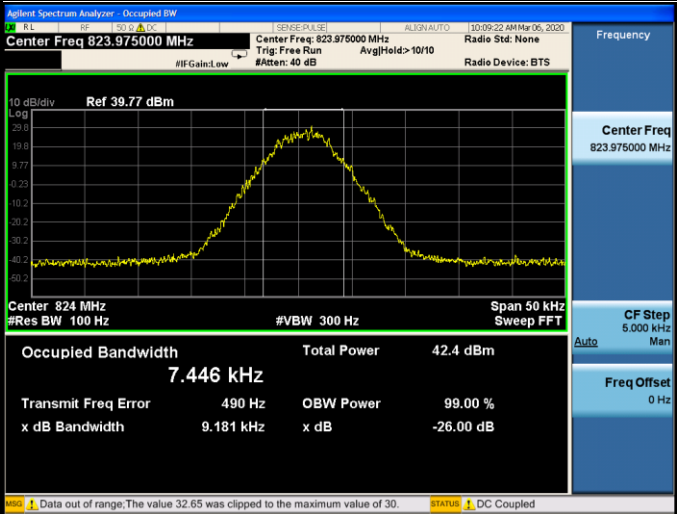
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	35.29	3.38	3.50	-3.4	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.27	3.37	3.50	-3.9	±20	PASS
TX-DNH	4FSK	CH _H	35.38	3.45	3.50	-1.4	±20	PASS
TX-DNL	4FSK	CH _L	30.61	1.15	1.20	-4.1	±20	PASS
TX-DNL	4FSK	CH _{M1}	30.70	1.17	1.20	-2.1	±20	PASS
TX-DNL	4FSK	CH _H	30.73	1.18	1.20	-1.4	±20	PASS
TX-ANH	FM	CH _L	35.12	3.25	3.50	-7.1	±20	PASS
TX-ANH	FM	CH _{M1}	35.17	3.29	3.50	-6.0	±20	PASS
TX-ANH	FM	CH _H	35.27	3.37	3.50	-3.9	±20	PASS
TX-ANL	FM	CH _L	30.69	1.17	1.20	-2.3	±20	PASS
TX-ANL	FM	CH _{M1}	30.59	1.15	1.20	-4.5	±20	PASS
TX-ANL	FM	CH _H	30.63	1.16	1.20	-3.7	±20	PASS
TX-AWH	FM	CH _L	35.17	3.29	3.50	-6.0	±20	PASS
TX-AWH	FM	CH _{M1}	35.23	3.33	3.50	-4.7	±20	PASS
TX-AWH	FM	CH _H	35.32	3.40	3.50	-2.7	±20	PASS
TX-AWL	FM	CH _L	30.77	1.19	1.20	-0.5	±20	PASS
TX-AWL	FM	CH _{M1}	30.54	1.13	1.20	-5.6	±20	PASS
TX-AWL	FM	CH _H	30.59	1.15	1.20	-4.5	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.477	9.191	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.448	9.063	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.446	9.181	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.491	9.193	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.463	9.203	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.447	9.122	≤11.25	PASS
TX-ANH	FM	CH _L	9.985	10.160	≤11.25	PASS
TX-ANH	FM	CH _{M1}	9.988	10.170	≤11.25	PASS
TX-ANH	FM	CH _H	9.999	10.170	≤11.25	PASS
TX-ANL	FM	CH _L	9.977	10.160	≤11.25	PASS
TX-ANL	FM	CH _{M1}	9.988	10.170	≤11.25	PASS
TX-ANL	FM	CH _H	9.989	10.170	≤11.25	PASS
TX-AWH	FM	CH _L	14.981	15.660	≤20	PASS
TX-AWH	FM	CH _{M1}	14.986	15.660	≤20	PASS
TX-AWH	FM	CH _H	14.991	15.660	≤20	PASS
TX-AWL	FM	CH _L	14.980	15.660	≤20	PASS
TX-AWL	FM	CH _{M1}	14.980	15.660	≤20	PASS
TX-AWL	FM	CH _H	14.984	15.660	≤20	PASS

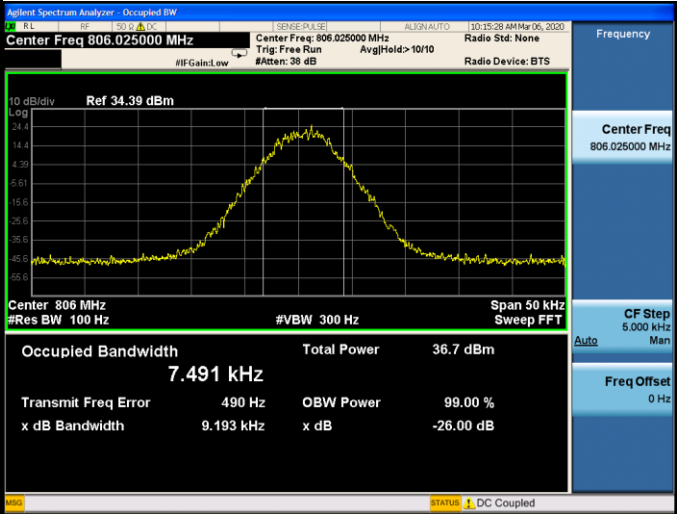
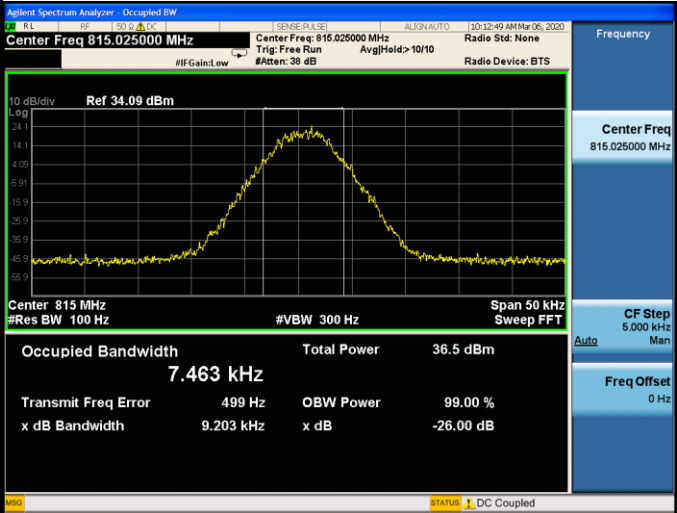
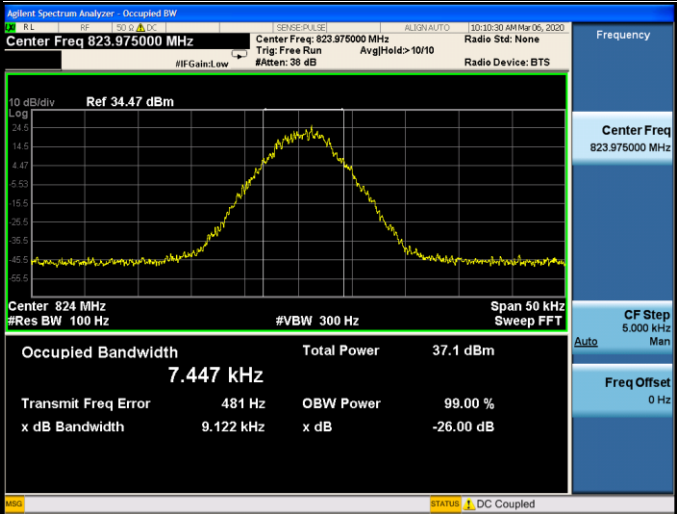


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Ref 39.62 dBm Occupied Bandwidth 7.477 kHz Total Power 42.2 dBm Transmit Freq Error 486 Hz OBW Power 99.00 % x dB Bandwidth 9.191 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 815.025000 MHz Ref 39.74 dBm Occupied Bandwidth 7.448 kHz Total Power 42.2 dBm Transmit Freq Error 476 Hz OBW Power 99.00 % x dB Bandwidth 9.063 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Ref 39.77 dBm Occupied Bandwidth 7.446 kHz Total Power 42.4 dBm Transmit Freq Error 490 Hz OBW Power 99.00 % x dB Bandwidth 9.181 kHz x dB -26.00 dB

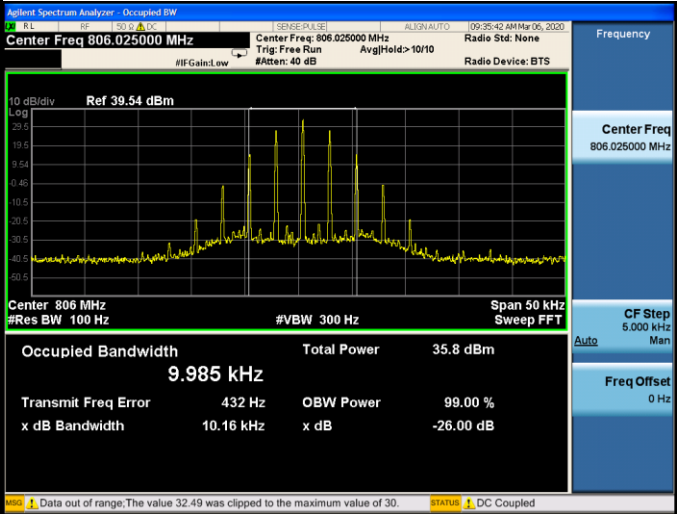
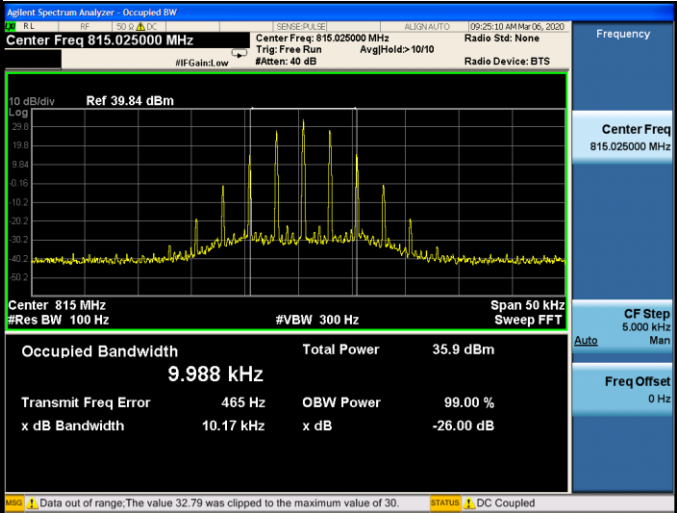
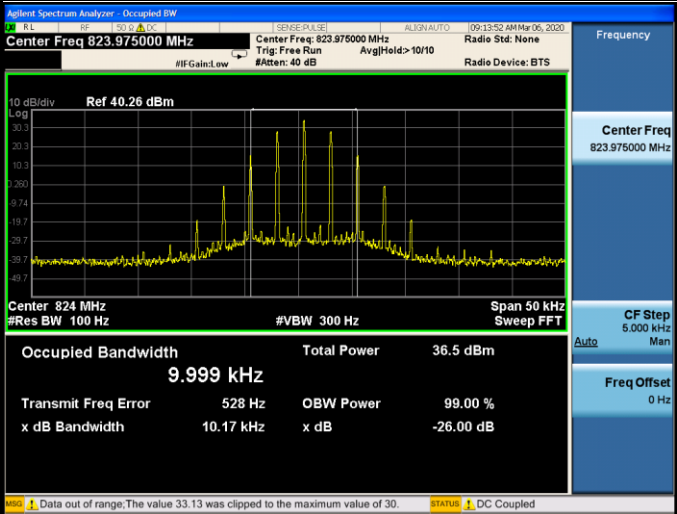


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Ref 34.39 dBm Occupied Bandwidth 7.491 kHz Total Power 36.7 dBm Transmit Freq Error 490 Hz OBW Power 99.00 % x dB Bandwidth 9.193 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 815.025000 MHz Ref 34.09 dBm Occupied Bandwidth 7.463 kHz Total Power 36.5 dBm Transmit Freq Error 499 Hz OBW Power 99.00 % x dB Bandwidth 9.203 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Ref 34.47 dBm Occupied Bandwidth 7.447 kHz Total Power 37.1 dBm Transmit Freq Error 481 Hz OBW Power 99.00 % x dB Bandwidth 9.122 kHz x dB -26.00 dB

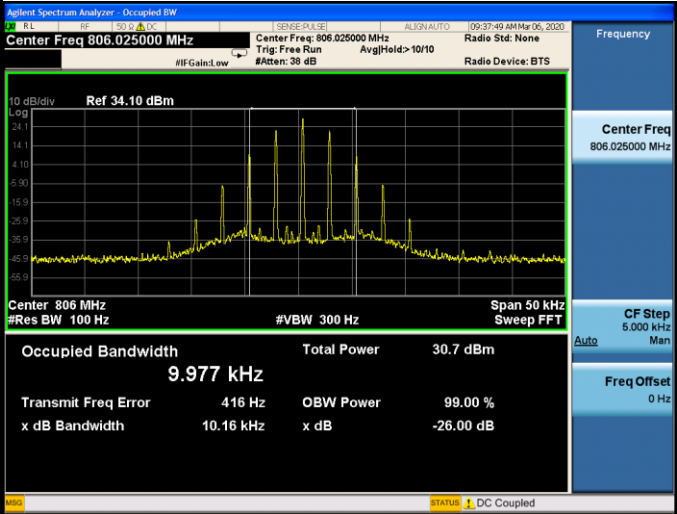
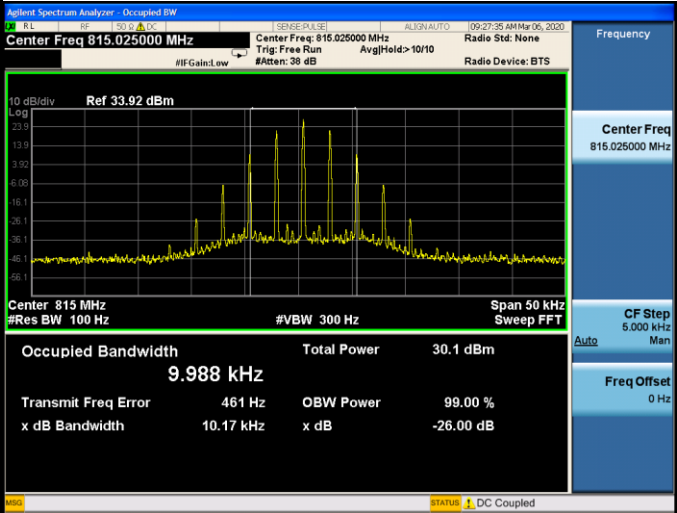
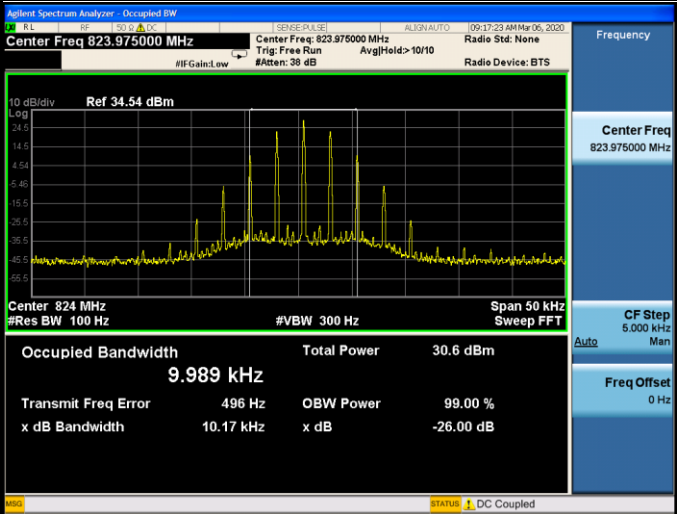


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Ref 39.54 dBm Occupied Bandwidth 9.985 kHz Total Power 35.8 dBm Transmit Freq Error 432 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 815.025000 MHz Ref 39.84 dBm Occupied Bandwidth 9.988 kHz Total Power 35.9 dBm Transmit Freq Error 465 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANH	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Ref 40.26 dBm Occupied Bandwidth 9.999 kHz Total Power 36.5 dBm Transmit Freq Error 528 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	
TX-ANL	FM	CH _{M1}	
TX-ANL	FM	CH _H	



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 806.025000 MHz #Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms Span 50 kHz Ref 39.46 dBm Occupied Bandwidth 14.981 kHz Total Power 36.4 dBm Transmit Freq Error 412 Hz OBW Power 99.00 % x dB Bandwidth 15.66 kHz x dB -26.00 dB
TX-AWH	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 815.025000 MHz #Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms Span 50 kHz Ref 39.77 dBm Occupied Bandwidth 14.986 kHz Total Power 36.7 dBm Transmit Freq Error 449 Hz OBW Power 99.00 % x dB Bandwidth 15.66 kHz x dB -26.00 dB
TX-AWH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz #Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms Span 50 kHz Ref 40.08 dBm Occupied Bandwidth 14.991 kHz Total Power 37.0 dBm Transmit Freq Error 478 Hz OBW Power 99.00 % x dB Bandwidth 15.66 kHz x dB -26.00 dB

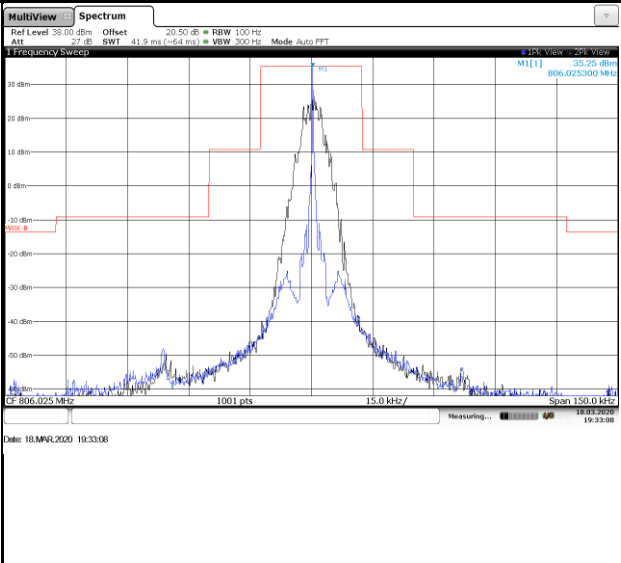
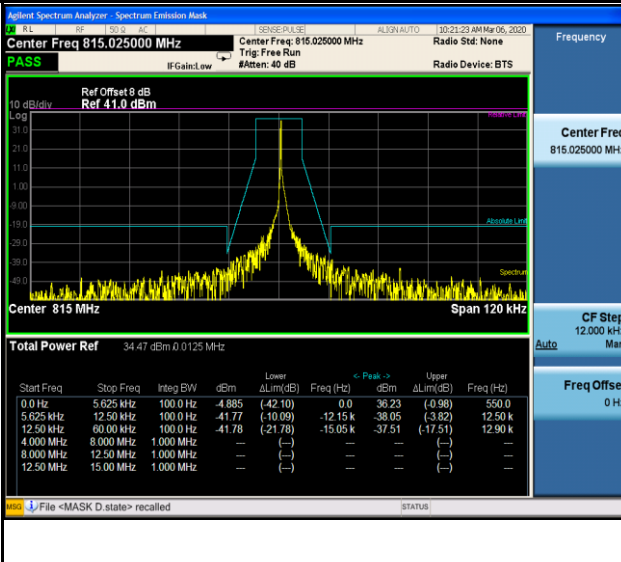
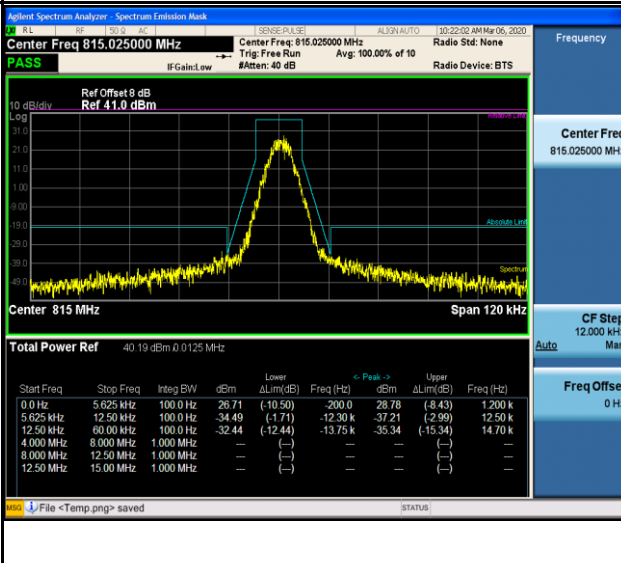


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Ref 34.09 dBm Occupied Bandwidth 14.980 kHz Total Power 31.1 dBm Transmit Freq Error 402 Hz OBW Power 99.00 % x dB Bandwidth 15.66 kHz x dB -26.00 dB
TX-AWL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 815.025000 MHz Ref 33.71 dBm Occupied Bandwidth 14.980 kHz Total Power 30.9 dBm Transmit Freq Error 428 Hz OBW Power 99.00 % x dB Bandwidth 15.66 kHz x dB -26.00 dB
TX-AWL	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Ref 34.43 dBm Occupied Bandwidth 14.984 kHz Total Power 31.4 dBm Transmit Freq Error 471 Hz OBW Power 99.00 % x dB Bandwidth 15.66 kHz x dB -26.00 dB



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _{M1}	
TX-DNH	4FSK	CH _{M1}	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF IF



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 10:22:38 AM Mar 06, 2020 Center Freq 815.025000 MHz Center Freq: 815.025000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 12.0 8.00 4.00 0.00 -4.00 -8.00 -12.00 -16.00 -20.00 -24.00 -28.00 -32.00 -36.00 -40.00 -44.00 -48.00 -52.00 -56.00 Mask Limit Absolute Limit Spectrum Center 815 MHz Span 120 kHz Total Power Ref 31.24 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-30.45</td><td>(-61.95)</td><td>0.0</td><td>31.35</td><td>(-0.15)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.02</td><td>(-4.81)</td><td>-11.85 k</td><td>-42.59</td><td>(-5.93)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.43</td><td>(-24.43)</td><td>-13.40 k</td><td>-41.72</td><td>(-21.72)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 815.025000 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-30.45	(-61.95)	0.0	31.35	(-0.15)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.02	(-4.81)	-11.85 k	-42.59	(-5.93)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.43	(-24.43)	-13.40 k	-41.72	(-21.72)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	-30.45	(-61.95)	0.0	31.35	(-0.15)	550.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-40.02	(-4.81)	-11.85 k	-42.59	(-5.93)	12.05 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-44.43	(-24.43)	-13.40 k	-41.72	(-21.72)	12.55 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 10:23:38 AM Mar 06, 2020 Center Freq 815.025000 MHz Center Freq: 815.025000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 12.0 8.00 4.00 0.00 -4.00 -8.00 -12.00 -16.00 -20.00 -24.00 -28.00 -32.00 -36.00 -40.00 -44.00 -48.00 -52.00 -56.00 Mask Limit Absolute Limit Spectrum Center 815 MHz Span 120 kHz Total Power Ref 34.17 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.90</td><td>(-9.61)</td><td>-400.0</td><td>25.23</td><td>(-6.27)</td><td>1.250 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.84</td><td>(-3.36)</td><td>-12.30 k</td><td>-42.48</td><td>(-2.54)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.74</td><td>(-20.74)</td><td>-14.60 k</td><td>-39.20</td><td>(-19.20)</td><td>12.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 815.025000 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.90	(-9.61)	-400.0	25.23	(-6.27)	1.250 k	5.625 kHz	12.50 kHz	100.0 Hz	-41.84	(-3.36)	-12.30 k	-42.48	(-2.54)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.74	(-20.74)	-14.60 k	-39.20	(-19.20)	12.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	21.90	(-9.61)	-400.0	25.23	(-6.27)	1.250 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.84	(-3.36)	-12.30 k	-42.48	(-2.54)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-40.74	(-20.74)	-14.60 k	-39.20	(-19.20)	12.60 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 10:18:11 AM Mar 06, 2020 Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 12.0 8.00 4.00 0.00 -4.00 -8.00 -12.00 -16.00 -20.00 -24.00 -28.00 -32.00 -36.00 -40.00 -44.00 -48.00 -52.00 -56.00 Mask Limit Absolute Limit Spectrum Center 824 MHz Span 120 kHz Total Power Ref 31.46 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-31.87</td><td>(-63.95)</td><td>-2.450 k</td><td>31.43</td><td>(-0.66)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.34</td><td>(-4.53)</td><td>-12.15 k</td><td>-45.17</td><td>(-5.82)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.56</td><td>(-20.56)</td><td>-14.70 k</td><td>-40.79</td><td>(-20.79)</td><td>15.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 823.975000 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-31.87	(-63.95)	-2.450 k	31.43	(-0.66)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.34	(-4.53)	-12.15 k	-45.17	(-5.82)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.56	(-20.56)	-14.70 k	-40.79	(-20.79)	15.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	-31.87	(-63.95)	-2.450 k	31.43	(-0.66)	500.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.34	(-4.53)	-12.15 k	-45.17	(-5.82)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-40.56	(-20.56)	-14.70 k	-40.79	(-20.79)	15.70 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

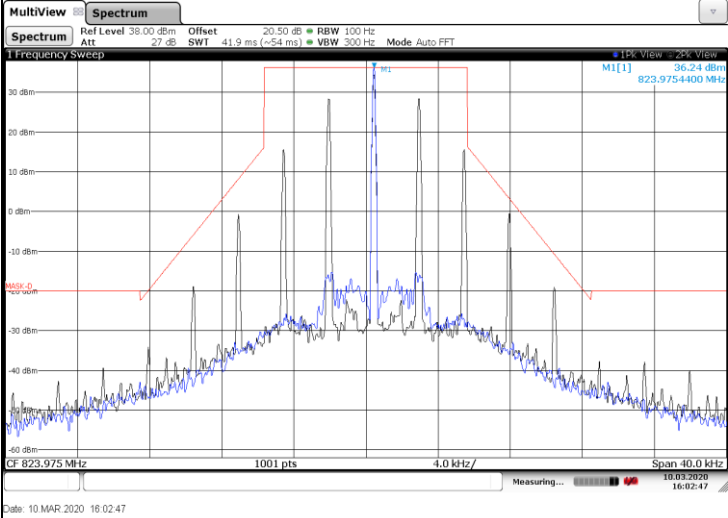
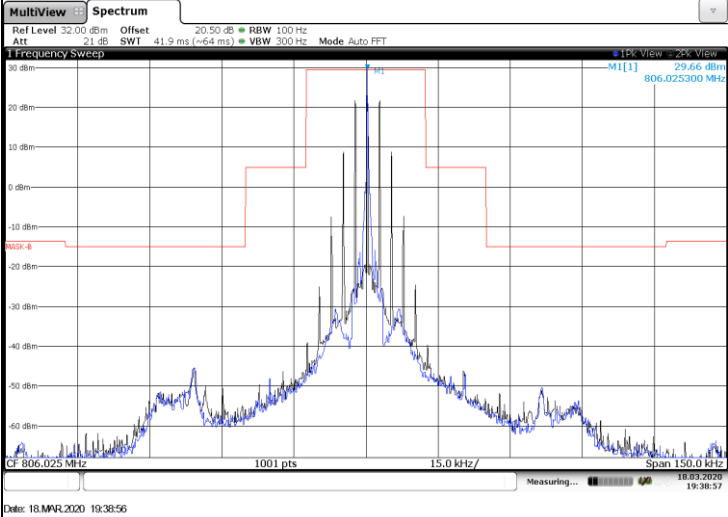
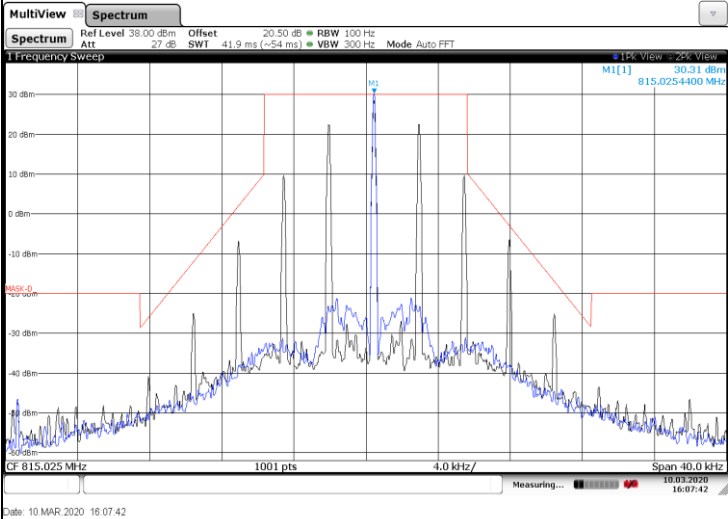


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 10:20:39 AM Mar 06, 2020 Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Att: 40 dB Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 Center 824 MHz Span 120 kHz Total Power Ref 35.01 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 > dBrn</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.43</td><td>(-11.53)</td><td>-700.0</td><td>21.70</td><td>(-10.26)</td><td>2.000 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.71</td><td>(4.96)</td><td>-11.85 k</td><td>-41.61</td><td>(2.13)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.23</td><td>(-19.23)</td><td>-12.75 k</td><td>-39.42</td><td>(-19.42)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 823.975000 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 > dBrn	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.43	(-11.53)	-700.0	21.70	(-10.26)	2.000 k	5.625 kHz	12.50 kHz	100.0 Hz	-39.71	(4.96)	-11.85 k	-41.61	(2.13)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.23	(-19.23)	-12.75 k	-39.42	(-19.42)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBrn	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	20.43	(-11.53)	-700.0	21.70	(-10.26)	2.000 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-39.71	(4.96)	-11.85 k	-41.61	(2.13)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-39.23	(-19.23)	-12.75 k	-39.42	(-19.42)	12.65 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _L	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWI 41.9 ms (~6.4 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep 10 dB/div 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm CF 806.025 MHz 1001 pts 15.0 kHz Span 150.0 kHz Date: 18.MAR.2020 19:29:44 10% View 25% View M1[1] 35.25 dBm 806.025300 MHz																																																															
TX-ANH	FM	CH _{M1}	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep 10 dB/div 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm CF 815.025 MHz 1001 pts 4.0 kHz Span 40.0 kHz Date: 10.MAR.2020 16:01:49 10% View 25% View M1[1] 36.25 dBm 815.0254400 MHz																																																															



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _H	
TX-ANL	FM	CH _L	
TX-ANL	FM	CH _{M1}	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	MultiView Spectrum Ref Level 38.00 dBm Att 27 dB Offset 20.50 dB SWT 41.9 ms (<54 ms) RBW 100 Hz Mode Auto FFT 1 Frequency Sweep 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm 823.975 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz M1[1] 30.56 dBm 823.9754400 MHz Date: 10 MAR 2020 16:06:29 Measuring... 16:06:28																																																															
TX-AWH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 806.025000 MHz Center Freq 806.025000 MHz Trig: Free Run Radio Std: None Ref Offset 9 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 806 MHz Span 120 kHz Total Power Ref 36.32 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>-19.52</td><td>(-56.42)</td><td>-598.8</td><td>36.57</td><td>(-0.33)</td><td>359.3</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-29.91</td><td>(-40.31)</td><td>-12.28 k</td><td>-30.95</td><td>(-41.35)</td><td>11.26 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-33.90</td><td>(-34.30)</td><td>-21.21 k</td><td>-33.46</td><td>(-33.86)</td><td>20.19 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-41.05</td><td>(-28.05)</td><td>-51.91 k</td><td>-41.80</td><td>(-28.80)</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></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 806.025000 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 kHz	10.00 kHz	300.0 Hz	-19.52	(-56.42)	-598.8	36.57	(-0.33)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-29.91	(-40.31)	-12.28 k	-30.95	(-41.35)	11.26 k	20.00 kHz	50.00 kHz	300.0 Hz	-33.90	(-34.30)	-21.21 k	-33.46	(-33.86)	20.19 k	50.00 kHz	60.00 kHz	300.0 Hz	-41.05	(-28.05)	-51.91 k	-41.80	(-28.80)	50.83 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 kHz	10.00 kHz	300.0 Hz	-19.52	(-56.42)	-598.8	36.57	(-0.33)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-29.91	(-40.31)	-12.28 k	-30.95	(-41.35)	11.26 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-33.90	(-34.30)	-21.21 k	-33.46	(-33.86)	20.19 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-41.05	(-28.05)	-51.91 k	-41.80	(-28.80)	50.83 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 806.025000 MHz Center Freq 806.025000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Ref Offset 9 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 806 MHz Span 120 kHz Total Power Ref 36.04 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>31.82</td><td>(-5.08)</td><td>-2.036 k</td><td>31.80</td><td>(-5.10)</td><td>2.934 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-12.27</td><td>(22.57)</td><td>-10.00 k</td><td>2.755</td><td>(7.84)</td><td>10.42 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-38.71</td><td>(-39.11)</td><td>-22.11 k</td><td>-38.18</td><td>(-38.58)</td><td>22.17 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-46.18</td><td>(-33.18)</td><td>-56.58 k</td><td>-45.47</td><td>(-32.47)</td><td>50.00 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> Frequency Center Freq 806.025000 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 kHz	10.00 kHz	300.0 Hz	31.82	(-5.08)	-2.036 k	31.80	(-5.10)	2.934 k	10.00 kHz	20.00 kHz	300.0 Hz	-12.27	(22.57)	-10.00 k	2.755	(7.84)	10.42 k	20.00 kHz	50.00 kHz	300.0 Hz	-38.71	(-39.11)	-22.11 k	-38.18	(-38.58)	22.17 k	50.00 kHz	60.00 kHz	300.0 Hz	-46.18	(-33.18)	-56.58 k	-45.47	(-32.47)	50.00 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 kHz	10.00 kHz	300.0 Hz	31.82	(-5.08)	-2.036 k	31.80	(-5.10)	2.934 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-12.27	(22.57)	-10.00 k	2.755	(7.84)	10.42 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-38.71	(-39.11)	-22.11 k	-38.18	(-38.58)	22.17 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-46.18	(-33.18)	-56.58 k	-45.47	(-32.47)	50.00 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 815.025000 MHz Trig: Free Run Radio Std: None Radio Device: BTS Ref Offset 8 dB Ref 41.0 dBm Center 815 MHz Span 120 kHz Total Power Ref 36.54 dBm @ 0.125 MHz <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-17.49</td> <td>(-54.64)</td> <td>-179.6</td> <td>36.79</td> <td>(-0.35)</td> <td>359.3</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-28.93</td> <td>(-39.57)</td> <td>-11.02 k</td> <td>-29.61</td> <td>(-40.25)</td> <td>12.64 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-35.59</td> <td>(-36.24)</td> <td>-20.97 k</td> <td>-34.31</td> <td>(-34.95)</td> <td>20.01 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-43.15</td> <td>(-30.15)</td> <td>-53.59 k</td> <td>-43.15</td> <td>(-30.15)</td> <td>50.71 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 dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	-17.49	(-54.64)	-179.6	36.79	(-0.35)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-28.93	(-39.57)	-11.02 k	-29.61	(-40.25)	12.64 k	20.00 kHz	50.00 kHz	300.0 Hz	-35.59	(-36.24)	-20.97 k	-34.31	(-34.95)	20.01 k	50.00 kHz	60.00 kHz	300.0 Hz	-43.15	(-30.15)	-53.59 k	-43.15	(-30.15)	50.71 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 kHz	10.00 kHz	300.0 Hz	-17.49	(-54.64)	-179.6	36.79	(-0.35)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-28.93	(-39.57)	-11.02 k	-29.61	(-40.25)	12.64 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-35.59	(-36.24)	-20.97 k	-34.31	(-34.95)	20.01 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-43.15	(-30.15)	-53.59 k	-43.15	(-30.15)	50.71 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 815.025000 MHz Trig: Free Run Radio Std: None Radio Device: BTS Ref Offset 8 dB Ref 41.0 dBm Center 815 MHz Span 120 kHz Total Power Ref 36.28 dBm @ 0.125 MHz <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>32.02</td> <td>(5.13)</td> <td>-2.096 k</td> <td>32.04</td> <td>(5.11)</td> <td>2.874 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-11.79</td> <td>(-22.44)</td> <td>-12.04 k</td> <td>2.739</td> <td>(7.90)</td> <td>10.42 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-37.25</td> <td>(-37.89)</td> <td>-22.71 k</td> <td>-37.91</td> <td>(-38.56)</td> <td>21.16 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-44.49</td> <td>(-31.49)</td> <td>-51.61 k</td> <td>-46.14</td> <td>(-33.14)</td> <td>50.53 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 dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	32.02	(5.13)	-2.096 k	32.04	(5.11)	2.874 k	10.00 kHz	20.00 kHz	300.0 Hz	-11.79	(-22.44)	-12.04 k	2.739	(7.90)	10.42 k	20.00 kHz	50.00 kHz	300.0 Hz	-37.25	(-37.89)	-22.71 k	-37.91	(-38.56)	21.16 k	50.00 kHz	60.00 kHz	300.0 Hz	-44.49	(-31.49)	-51.61 k	-46.14	(-33.14)	50.53 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 kHz	10.00 kHz	300.0 Hz	32.02	(5.13)	-2.096 k	32.04	(5.11)	2.874 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-11.79	(-22.44)	-12.04 k	2.739	(7.90)	10.42 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-37.25	(-37.89)	-22.71 k	-37.91	(-38.56)	21.16 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-44.49	(-31.49)	-51.61 k	-46.14	(-33.14)	50.53 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 823.975000 MHz Trig: Free Run Radio Std: None Radio Device: BTS Ref Offset 8 dB Ref 42.0 dBm Center 824 MHz Span 120 kHz Total Power Ref 36.87 dBm @ 0.125 MHz <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-19.16</td> <td>(-56.68)</td> <td>-479.0</td> <td>37.11</td> <td>(-0.41)</td> <td>539.9</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-30.25</td> <td>(-41.27)</td> <td>-13.24 k</td> <td>-29.49</td> <td>(-40.51)</td> <td>10.24 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-36.83</td> <td>(-37.86)</td> <td>-21.45 k</td> <td>-34.83</td> <td>(-35.85)</td> <td>25.47 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-40.77</td> <td>(-27.77)</td> <td>-52.39 k</td> <td>-41.70</td> <td>(-28.70)</td> <td>57.36 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	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	-19.16	(-56.68)	-479.0	37.11	(-0.41)	539.9	10.00 kHz	20.00 kHz	300.0 Hz	-30.25	(-41.27)	-13.24 k	-29.49	(-40.51)	10.24 k	20.00 kHz	50.00 kHz	300.0 Hz	-36.83	(-37.86)	-21.45 k	-34.83	(-35.85)	25.47 k	50.00 kHz	60.00 kHz	300.0 Hz	-40.77	(-27.77)	-52.39 k	-41.70	(-28.70)	57.36 k	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 kHz	10.00 kHz	300.0 Hz	-19.16	(-56.68)	-479.0	37.11	(-0.41)	539.9																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-30.25	(-41.27)	-13.24 k	-29.49	(-40.51)	10.24 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-36.83	(-37.86)	-21.45 k	-34.83	(-35.85)	25.47 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-40.77	(-27.77)	-52.39 k	-41.70	(-28.70)	57.36 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

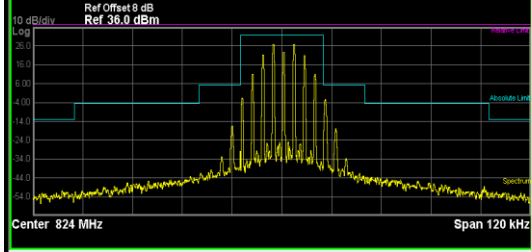
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Trig: Free Run IF Gain: Low #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Ref Offset 8 dB Ref 42.0 dBm Log 20.0 12.0 4.0 2.0 0.0 -2.0 -4.0 -6.0 -8.0 -10.0 -12.0 -14.0 -16.0 -18.0 -20.0 -22.0 -24.0 -26.0 -28.0 -30.0 -32.0 -34.0 -36.0 -38.0 -40.0 -42.0 -44.0 -46.0 -48.0 -50.0 Center 824 MHz Span 120 kHz Total Power Ref 36.57 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>32.33</td><td>(5.19)</td><td>-1.976 k</td><td>32.38</td><td>(5.14)</td><td>2.934 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-11.13</td><td>(22.15)</td><td>-12.04 k</td><td>3.022</td><td>(8.00)</td><td>10.48 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-37.86</td><td>(-38.89)</td><td>-20.01 k</td><td>-37.02</td><td>(-38.04)</td><td>21.39 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-45.79</td><td>(-32.79)</td><td>-51.79 k</td><td>-45.46</td><td>(-32.46)</td><td>55.26 k</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 823.975000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	32.33	(5.19)	-1.976 k	32.38	(5.14)	2.934 k	10.00 kHz	20.00 kHz	300.0 Hz	-11.13	(22.15)	-12.04 k	3.022	(8.00)	10.48 k	20.00 kHz	50.00 kHz	300.0 Hz	-37.86	(-38.89)	-20.01 k	-37.02	(-38.04)	21.39 k	50.00 kHz	60.00 kHz	300.0 Hz	-45.79	(-32.79)	-51.79 k	-45.46	(-32.46)	55.26 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	32.33	(5.19)	-1.976 k	32.38	(5.14)	2.934 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-11.13	(22.15)	-12.04 k	3.022	(8.00)	10.48 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-37.86	(-38.89)	-20.01 k	-37.02	(-38.04)	21.39 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-45.79	(-32.79)	-51.79 k	-45.46	(-32.46)	55.26 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 806.025000 MHz Center Freq: 806.025000 MHz Trig: Free Run IF Gain: Low #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Ref Offset 8 dB Ref 36.0 dBm Log 20.0 16.0 12.0 8.0 4.0 0.0 -4.0 -8.0 -12.0 -16.0 -20.0 -24.0 -28.0 -32.0 -36.0 -40.0 -44.0 -48.0 -52.0 -56.0 Center 806 MHz Span 120 kHz Total Power Ref 31.04 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>-22.08</td><td>(-53.70)</td><td>0.0</td><td>31.29</td><td>(-0.33)</td><td>359.3</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-36.80</td><td>(41.92)</td><td>-10.00 k</td><td>-35.53</td><td>(40.65)</td><td>10.00 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-39.80</td><td>(34.92)</td><td>-22.05 k</td><td>-41.73</td><td>(36.84)</td><td>28.23 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-47.25</td><td>(34.26)</td><td>-57.84 k</td><td>-49.02</td><td>(36.02)</td><td>56.16 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></table> Frequency Center Freq 806.025000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	-22.08	(-53.70)	0.0	31.29	(-0.33)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-36.80	(41.92)	-10.00 k	-35.53	(40.65)	10.00 k	20.00 kHz	50.00 kHz	300.0 Hz	-39.80	(34.92)	-22.05 k	-41.73	(36.84)	28.23 k	50.00 kHz	60.00 kHz	300.0 Hz	-47.25	(34.26)	-57.84 k	-49.02	(36.02)	56.16 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)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	-22.08	(-53.70)	0.0	31.29	(-0.33)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-36.80	(41.92)	-10.00 k	-35.53	(40.65)	10.00 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-39.80	(34.92)	-22.05 k	-41.73	(36.84)	28.23 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-47.25	(34.26)	-57.84 k	-49.02	(36.02)	56.16 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 806.025000 MHz Center Freq: 806.025000 MHz Trig: Free Run IF Gain: Low #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Ref Offset 8 dB Ref 36.0 dBm Log 20.0 16.0 12.0 8.0 4.0 0.0 -4.0 -8.0 -12.0 -16.0 -20.0 -24.0 -28.0 -32.0 -36.0 -40.0 -44.0 -48.0 -52.0 -56.0 Center 806 MHz Span 120 kHz Total Power Ref 30.77 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>26.58</td><td>(5.05)</td><td>-2.036 k</td><td>26.55</td><td>(5.07)</td><td>2.874 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-17.60</td><td>(22.72)</td><td>-12.10 k</td><td>-2.452</td><td>(7.57)</td><td>10.42 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-42.78</td><td>(37.90)</td><td>-21.27 k</td><td>-42.01</td><td>(37.13)</td><td>21.63 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-51.67</td><td>(38.67)</td><td>-56.28 k</td><td>-51.08</td><td>(38.08)</td><td>52.63 k</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 806.025000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	26.58	(5.05)	-2.036 k	26.55	(5.07)	2.874 k	10.00 kHz	20.00 kHz	300.0 Hz	-17.60	(22.72)	-12.10 k	-2.452	(7.57)	10.42 k	20.00 kHz	50.00 kHz	300.0 Hz	-42.78	(37.90)	-21.27 k	-42.01	(37.13)	21.63 k	50.00 kHz	60.00 kHz	300.0 Hz	-51.67	(38.67)	-56.28 k	-51.08	(38.08)	52.63 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	26.58	(5.05)	-2.036 k	26.55	(5.07)	2.874 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-17.60	(22.72)	-12.10 k	-2.452	(7.57)	10.42 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-42.78	(37.90)	-21.27 k	-42.01	(37.13)	21.63 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-51.67	(38.67)	-56.28 k	-51.08	(38.08)	52.63 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask SENSE:PAUSE ALIGN:AUTO 09:33:42 AM Mar 06, 2020 Center Freq 815.025000 MHz Center Freq: 815.025000 MHz Radio Std: None Trig: Free Run #Att: 40 dB Radio Device: BTS PASS Ref Offset 8 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Center 815 MHz Span 120 kHz Total Power Ref 30.84 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>-23.44</td><td>(-54.87)</td><td>-1.257 k</td><td>31.09</td><td>(-0.34)</td><td>359.3</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-36.54</td><td>(-41.47)</td><td>-12.94 k</td><td>-34.49</td><td>(-39.43)</td><td>11.02 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-39.47</td><td>(-34.41)</td><td>-23.55 k</td><td>-41.06</td><td>(-35.99)</td><td>21.15 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-49.00</td><td>(-36.00)</td><td>-51.97 k</td><td>-46.90</td><td>(-33.90)</td><td>51.91 k</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK B.state> recalled STATUS Frequency Center Freq 815.025000 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	-23.44	(-54.87)	-1.257 k	31.09	(-0.34)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-36.54	(-41.47)	-12.94 k	-34.49	(-39.43)	11.02 k	20.00 kHz	50.00 kHz	300.0 Hz	-39.47	(-34.41)	-23.55 k	-41.06	(-35.99)	21.15 k	50.00 kHz	60.00 kHz	300.0 Hz	-49.00	(-36.00)	-51.97 k	-46.90	(-33.90)	51.91 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	-23.44	(-54.87)	-1.257 k	31.09	(-0.34)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-36.54	(-41.47)	-12.94 k	-34.49	(-39.43)	11.02 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-39.47	(-34.41)	-23.55 k	-41.06	(-35.99)	21.15 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-49.00	(-36.00)	-51.97 k	-46.90	(-33.90)	51.91 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask SENSE:PAUSE ALIGN:AUTO 09:34:31 AM Mar 06, 2020 Center Freq 815.025000 MHz Center Freq: 815.025000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Att: 40 dB Radio Device: BTS PASS Ref Offset 8 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Center 815 MHz Span 120 kHz Total Power Ref 30.58 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>26.35</td><td>(-5.09)</td><td>-2.036 k</td><td>26.37</td><td>(-5.07)</td><td>2.874 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-17.49</td><td>(-22.42)</td><td>-12.04 k</td><td>-2.950</td><td>(-7.89)</td><td>10.42 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-43.94</td><td>(-38.88)</td><td>-20.07 k</td><td>42.12</td><td>(-37.05)</td><td>21.87 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-50.40</td><td>(-37.40)</td><td>-50.53 k</td><td>-50.52</td><td>(-37.52)</td><td>51.91 k</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved STATUS Frequency Center Freq 815.025000 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	26.35	(-5.09)	-2.036 k	26.37	(-5.07)	2.874 k	10.00 kHz	20.00 kHz	300.0 Hz	-17.49	(-22.42)	-12.04 k	-2.950	(-7.89)	10.42 k	20.00 kHz	50.00 kHz	300.0 Hz	-43.94	(-38.88)	-20.07 k	42.12	(-37.05)	21.87 k	50.00 kHz	60.00 kHz	300.0 Hz	-50.40	(-37.40)	-50.53 k	-50.52	(-37.52)	51.91 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	26.35	(-5.09)	-2.036 k	26.37	(-5.07)	2.874 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-17.49	(-22.42)	-12.04 k	-2.950	(-7.89)	10.42 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-43.94	(-38.88)	-20.07 k	42.12	(-37.05)	21.87 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-50.40	(-37.40)	-50.53 k	-50.52	(-37.52)	51.91 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-AWL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask SENSE:PAUSE ALIGN:AUTO 09:23:18 AM Mar 06, 2020 Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Radio Std: None Trig: Free Run #Att: 40 dB Radio Device: BTS PASS Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 25.0 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Center 824 MHz Span 120 kHz Total Power Ref 31.34 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>-22.24</td><td>(-54.10)</td><td>-359.3</td><td>31.59</td><td>(-0.27)</td><td>538.9</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-34.70</td><td>(-40.06)</td><td>-11.80 k</td><td>-35.65</td><td>(-41.01)</td><td>10.12 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-38.85</td><td>(-34.21)</td><td>-24.15 k</td><td>-39.11</td><td>(-34.47)</td><td>23.31 k</td></tr><tr><td>50.00 kHz</td><td>60.00 kHz</td><td>300.0 Hz</td><td>-48.62</td><td>(-35.62)</td><td>-54.96 k</td><td>-46.88</td><td>(-33.88)</td><td>57.48 k</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK B.state> recalled STATUS Frequency Center Freq 823.975000 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	-22.24	(-54.10)	-359.3	31.59	(-0.27)	538.9	10.00 kHz	20.00 kHz	300.0 Hz	-34.70	(-40.06)	-11.80 k	-35.65	(-41.01)	10.12 k	20.00 kHz	50.00 kHz	300.0 Hz	-38.85	(-34.21)	-24.15 k	-39.11	(-34.47)	23.31 k	50.00 kHz	60.00 kHz	300.0 Hz	-48.62	(-35.62)	-54.96 k	-46.88	(-33.88)	57.48 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	-22.24	(-54.10)	-359.3	31.59	(-0.27)	538.9																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-34.70	(-40.06)	-11.80 k	-35.65	(-41.01)	10.12 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-38.85	(-34.21)	-24.15 k	-39.11	(-34.47)	23.31 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-48.62	(-35.62)	-54.96 k	-46.88	(-33.88)	57.48 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask 0.81 100.000000 100.000000 Center Freq 823.975000 MHz PASS IF Gain: Low 1 SENSE: PLUSE Center Freq: 823.975000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Align: AUTO 09:24:07 AM Mar 06, 2020 Radio Device: BTS Ref Offset 6 dB Ref 36.0 dBm  Center 824 MHz Span 120 kHz Total Power Ref 31.09 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>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>26.83</td><td>(-5.03)</td><td>-2.096 k</td><td>26.88</td><td>(-4.98)</td><td>3.054 k</td></tr><tr><td>10.00 kHz</td><td>20.00 kHz</td><td>300.0 Hz</td><td>-16.54</td><td>(-21.90)</td><td>-12.04 k</td><td>-2.482</td><td>(-7.84)</td><td>10.48 k</td></tr><tr><td>20.00 kHz</td><td>50.00 kHz</td><td>300.0 Hz</td><td>-43.30</td><td>(-38.66)</td><td>-21.99 k</td><td>-43.50</td><td>(-38.86)</td><td>20.37 k</td></tr><tr><td>50.00 kHz</td><td>80.00 kHz</td><td>300.0 Hz</td><td>-50.78</td><td>(-37.78)</td><td>-52.93 k</td><td>-51.20</td><td>(-38.20)</td><td>51.79 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 823.975000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	26.83	(-5.03)	-2.096 k	26.88	(-4.98)	3.054 k	10.00 kHz	20.00 kHz	300.0 Hz	-16.54	(-21.90)	-12.04 k	-2.482	(-7.84)	10.48 k	20.00 kHz	50.00 kHz	300.0 Hz	-43.30	(-38.66)	-21.99 k	-43.50	(-38.86)	20.37 k	50.00 kHz	80.00 kHz	300.0 Hz	-50.78	(-37.78)	-52.93 k	-51.20	(-38.20)	51.79 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)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	26.83	(-5.03)	-2.096 k	26.88	(-4.98)	3.054 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-16.54	(-21.90)	-12.04 k	-2.482	(-7.84)	10.48 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-43.30	(-38.66)	-21.99 k	-43.50	(-38.86)	20.37 k																																																										
50.00 kHz	80.00 kHz	300.0 Hz	-50.78	(-37.78)	-52.93 k	-51.20	(-38.20)	51.79 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

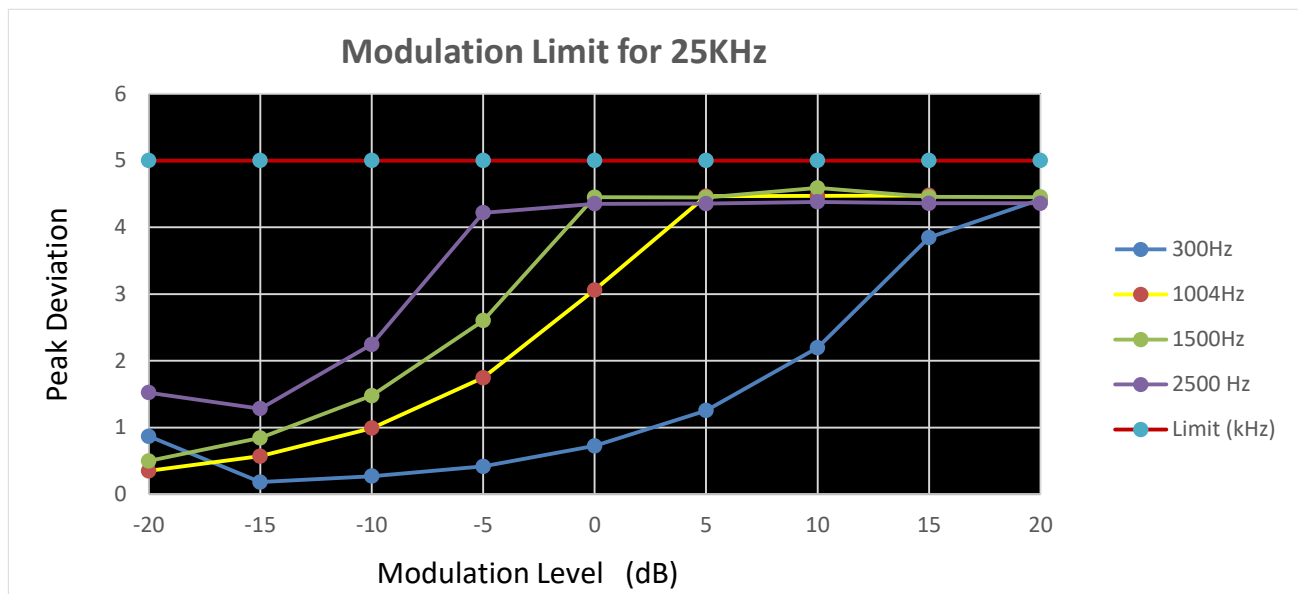
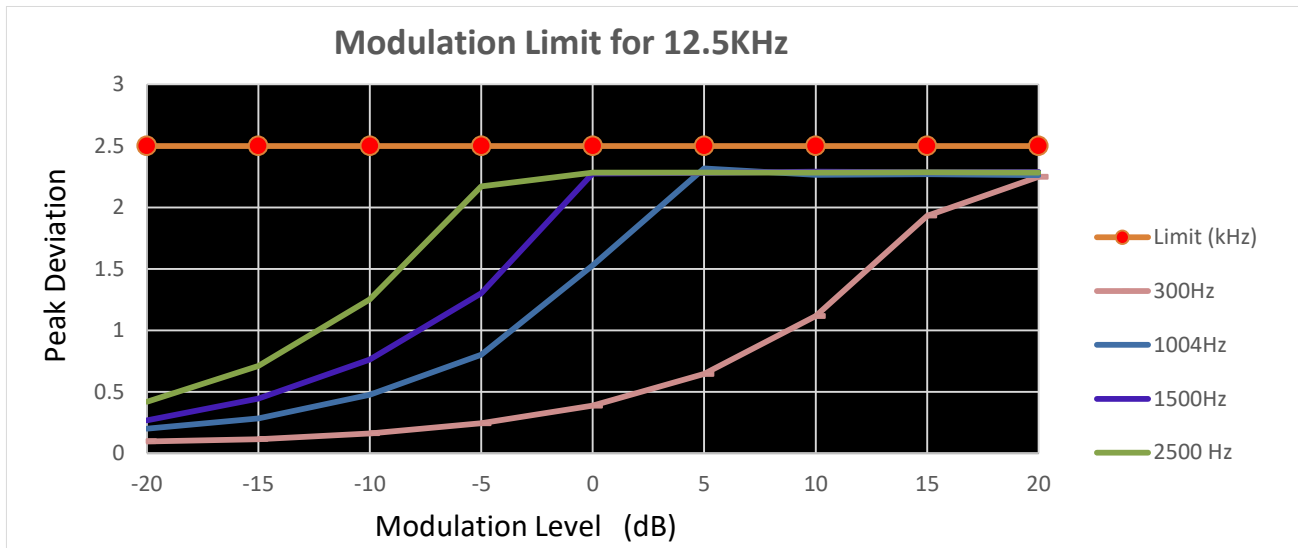
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.098	0.201	0.27	0.419	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.116	0.285	0.445	0.712	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.163	0.477	0.764	1.252	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.245	0.802	1.301	2.171	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.388	1.529	2.274	2.283	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.645	2.317	2.281	2.282	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.117	2.265	2.291	2.283	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.932	2.269	2.285	2.285	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.248	2.263	2.289	2.284	2.5	PASS
TX-AWH	FM	CH _{M2}	-20	0.869	0.351	0.498	1.523	5	PASS
TX-AWH	FM	CH _{M2}	-15	0.182	0.572	0.843	1.284	5	PASS
TX-AWH	FM	CH _{M2}	-10	0.272	0.991	1.477	2.244	5	PASS
TX-AWH	FM	CH _{M2}	-5	0.418	1.745	2.601	4.219	5	PASS
TX-AWH	FM	CH _{M2}	0	0.724	3.06	4.45	4.352	5	PASS
TX-AWH	FM	CH _{M2}	5	1.254	4.466	4.449	4.354	5	PASS
TX-AWH	FM	CH _{M2}	10	2.196	4.47	4.589	4.381	5	PASS
TX-AWH	FM	CH _{M2}	15	3.847	4.477	4.455	4.36	5	PASS
TX-AWH	FM	CH _{M2}	20	4.418	4.481	4.452	4.36	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-ANH	FM	CH _{M2}	100	-29.04			PASS
TX-ANH	FM	CH _{M2}	200	-28.57			PASS
TX-ANH	FM	CH _{M2}	300	-12.91	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-9.44	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.89	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.91	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.57	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.24	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.11	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.01	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.73	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.93	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.26	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.24	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	6.11	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	6.63	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.99	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	7.37	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	7.57	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	8.01	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	8.50	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	8.94	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	8.28	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	6.99	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	5.51	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-28.67			PASS
TX-ANH	FM	CH _{M2}	4000	-28.79			PASS
TX-ANH	FM	CH _{M2}	4500	-28.80			PASS
TX-ANH	FM	CH _{M2}	5000	-28.39			PASS
TX-AWH	FM	CH _{M2}	100	-34.40			PASS
TX-AWH	FM	CH _{M2}	200	-34.07			PASS
TX-AWH	FM	CH _{M2}	300	-12.83	-17.84	-9.42	PASS
TX-AWH	FM	CH _{M2}	400	-9.49	-12.86	-6.93	PASS
TX-AWH	FM	CH _{M2}	500	-6.83	-9.00	-5.00	PASS
TX-AWH	FM	CH _{M2}	600	-4.95	-7.42	-3.42	PASS
TX-AWH	FM	CH _{M2}	700	-3.54	-6.09	-2.09	PASS
TX-AWH	FM	CH _{M2}	800	-2.23	-4.93	-0.93	PASS
TX-AWH	FM	CH _{M2}	900	-1.10	-3.91	0.09	PASS
TX-AWH	FM	CH _{M2}	1000	0.01	-3.00	1.00	PASS
TX-AWH	FM	CH _{M2}	1200	1.76	-1.42	2.58	PASS
TX-AWH	FM	CH _{M2}	1400	2.96	-0.09	3.91	PASS
TX-AWH	FM	CH _{M2}	1600	4.30	1.07	5.07	PASS

**Appendix E:Aduio Frequency Response**

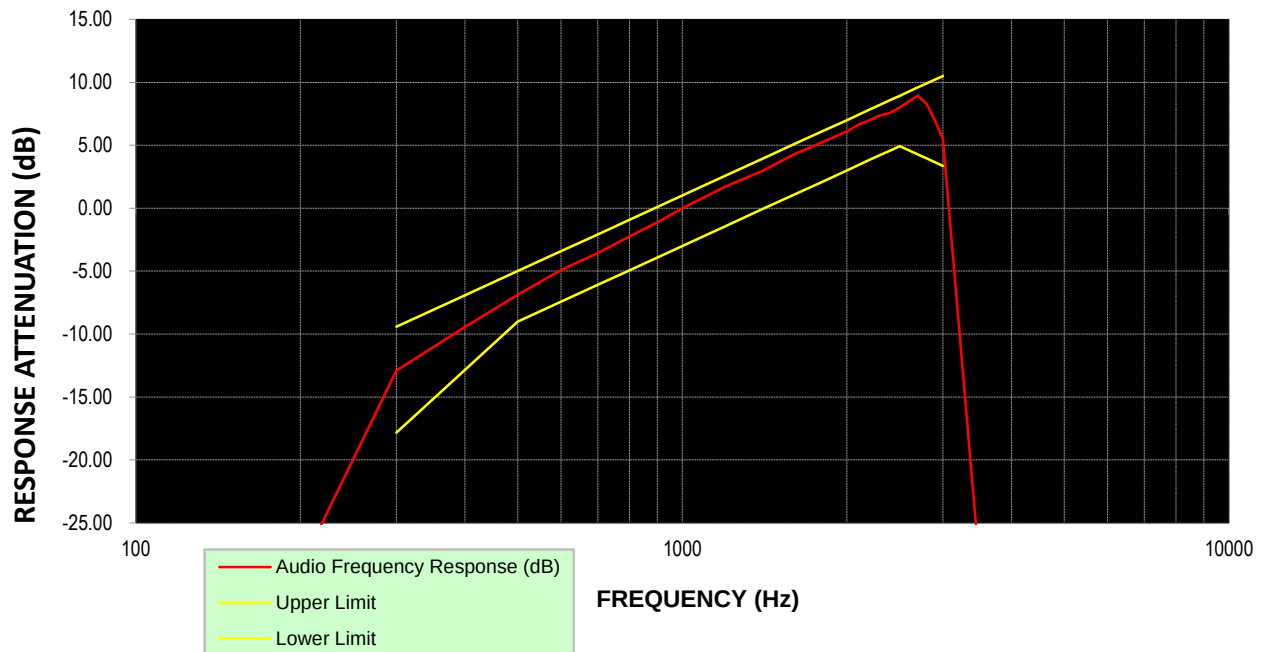
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH _{M2}	1800	5.29	2.09	6.09	PASS
TX-AWH	FM	CH _{M2}	2000	6.16	3.00	7.00	PASS
TX-AWH	FM	CH _{M2}	2100	6.69	3.42	7.42	PASS
TX-AWH	FM	CH _{M2}	2200	7.05	3.83	7.83	PASS
TX-AWH	FM	CH _{M2}	2300	7.43	4.21	8.21	PASS
TX-AWH	FM	CH _{M2}	2400	7.63	4.58	8.58	PASS
TX-AWH	FM	CH _{M2}	2500	8.07	4.93	8.93	PASS
TX-AWH	FM	CH _{M2}	2600	8.56	4.59	9.27	PASS
TX-AWH	FM	CH _{M2}	2700	9.01	4.27	9.60	PASS
TX-AWH	FM	CH _{M2}	2800	9.37	3.95	9.91	PASS
TX-AWH	FM	CH _{M2}	2900	9.50	3.65	10.22	PASS
TX-AWH	FM	CH _{M2}	3000	9.71	3.35	10.51	PASS
TX-AWH	FM	CH _{M2}	3500	-33.96			PASS
TX-AWH	FM	CH _{M2}	4000	-34.69			PASS
TX-AWH	FM	CH _{M2}	4500	-34.61			PASS
TX-AWH	FM	CH _{M2}	5000	-34.27			PASS



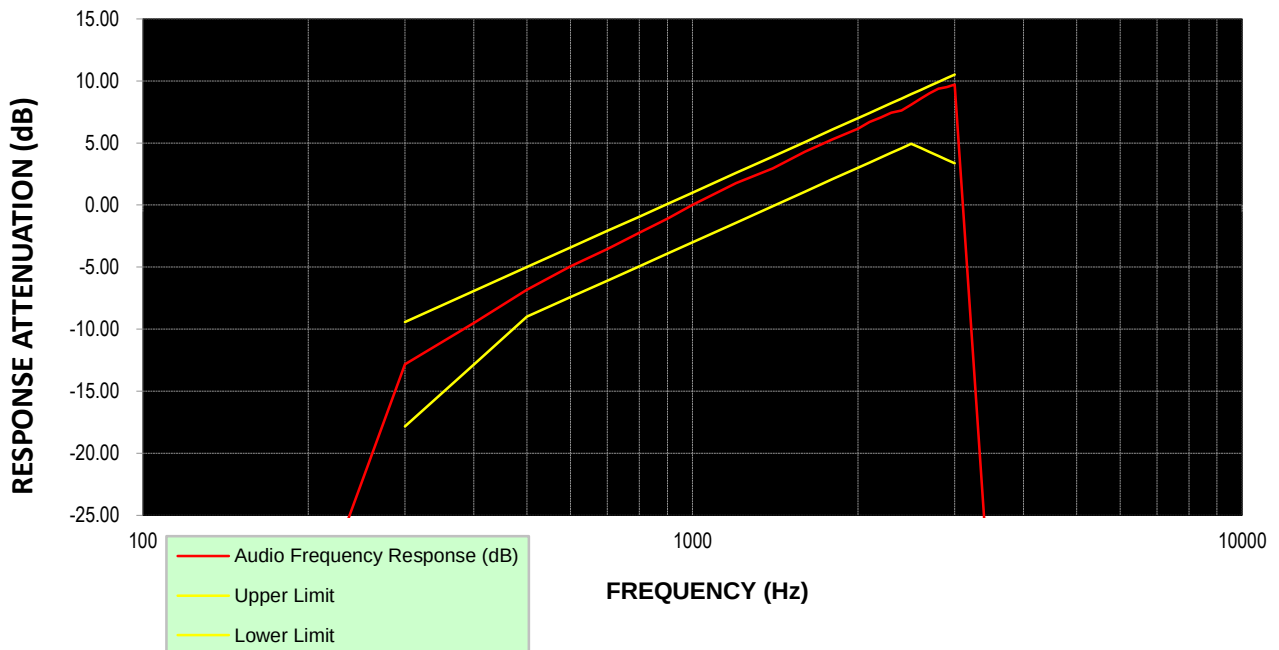
Appendix E:Aduio Frequency Response

TEST PLOT RESULT

Aduio Frequency Response For 12.5kHz



Aduio Frequency Response For 25kHz



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

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _H		
TX-DNH	4FSK	V _N	-30	0.580	0.574	0.609	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.563	0.573	0.589	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.556	0.576	0.591	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.586	0.591	0.594	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.598	0.577	0.603	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.552	0.555	0.559	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.602	0.564	0.594	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.578	0.599	0.582	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.597	0.611	0.609	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.590	0.575	0.604	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.557	0.600	0.571	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.601	0.573	0.562	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.555	0.567	0.609	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.572	0.567	0.580	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.550	0.559	0.560	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.575	0.574	0.583	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.567	0.576	0.561	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.573	0.608	0.569	±5.0	PASS
TX-ANH	FM	V _N	-30	0.113	0.101	0.083	±5.0	PASS
TX-ANH	FM	V _N	-20	0.115	0.101	0.083	±5.0	PASS
TX-ANH	FM	V _N	-10	0.110	0.101	0.089	±5.0	PASS
TX-ANH	FM	V _N	0	0.118	0.098	0.086	±5.0	PASS
TX-ANH	FM	V _N	10	0.119	0.097	0.086	±5.0	PASS
TX-ANH	FM	V _N	20	0.110	0.094	0.082	±5.0	PASS
TX-ANH	FM	V _N	30	0.118	0.095	0.084	±5.0	PASS
TX-ANH	FM	V _N	40	0.119	0.096	0.087	±5.0	PASS
TX-ANH	FM	V _N	55	0.116	0.095	0.086	±5.0	PASS
TX-ANL	FM	V _N	-30	0.109	0.087	0.085	±5.0	PASS
TX-ANL	FM	V _N	-20	0.108	0.093	0.081	±5.0	PASS
TX-ANL	FM	V _N	-10	0.114	0.091	0.083	±5.0	PASS
TX-ANL	FM	V _N	0	0.108	0.092	0.089	±5.0	PASS
TX-ANL	FM	V _N	10	0.110	0.087	0.088	±5.0	PASS
TX-ANL	FM	V _N	20	0.104	0.086	0.081	±5.0	PASS
TX-ANL	FM	V _N	30	0.105	0.091	0.084	±5.0	PASS
TX-ANL	FM	V _N	40	0.108	0.086	0.082	±5.0	PASS
TX-ANL	FM	V _N	55	0.104	0.089	0.088	±5.0	PASS
TX-AWH	FM	V _N	-30	0.065	0.062	0.083	±5.0	PASS
TX-AWH	FM	V _N	-20	0.064	0.065	0.083	±5.0	PASS
TX-AWH	FM	V _N	-10	0.065	0.063	0.082	±5.0	PASS
TX-AWH	FM	V _N	0	0.066	0.065	0.085	±5.0	PASS
TX-AWH	FM	V _N	10	0.064	0.063	0.079	±5.0	PASS
TX-AWH	FM	V _N	20	0.062	0.061	0.079	±5.0	PASS
TX-AWH	FM	V _N	30	0.064	0.066	0.080	±5.0	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _H		
TX-AWH	FM	V _N	40	0.068	0.066	0.083	±5.0	PASS
TX-AWH	FM	V _N	55	0.065	0.066	0.086	±5.0	PASS
TX-AWL	FM	V _N	-30	0.070	0.062	0.069	±5.0	PASS
TX-AWL	FM	V _N	-20	0.066	0.066	0.071	±5.0	PASS
TX-AWL	FM	V _N	-10	0.065	0.063	0.069	±5.0	PASS
TX-AWL	FM	V _N	0	0.067	0.065	0.070	±5.0	PASS
TX-AWL	FM	V _N	10	0.065	0.064	0.070	±5.0	PASS
TX-AWL	FM	V _N	20	0.064	0.061	0.068	±5.0	PASS
TX-AWL	FM	V _N	30	0.068	0.061	0.071	±5.0	PASS
TX-AWL	FM	V _N	40	0.067	0.062	0.070	±5.0	PASS
TX-AWL	FM	V _N	55	0.070	0.063	0.072	±5.0	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.552	0.555	0.559	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.562	0.565	0.561	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.566	0.558	0.578	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.550	0.559	0.560	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.559	0.565	0.566	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.558	0.575	0.589	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.110	0.094	0.082	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.112	0.096	0.083	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.112	0.100	0.086	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.104	0.086	0.081	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.105	0.088	0.082	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.106	0.088	0.083	±5.0	PASS
TX-AWH	FM	V _N	T _N	0.062	0.061	0.079	±5.0	PASS
TX-AWH	FM	V _L	T _N	0.063	0.061	0.080	±5.0	PASS
TX-AWH	FM	V _H	T _N	0.065	0.063	0.080	±5.0	PASS
TX-AWL	FM	V _N	T _N	0.064	0.061	0.068	±5.0	PASS
TX-AWL	FM	V _L	T _N	0.065	0.062	0.069	±5.0	PASS
TX-AWL	FM	V _H	T _N	0.067	0.065	0.070	±5.0	PASS



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 36.00 dBm Offset 30.50 dB Att 15 dB AQT 100 ms DBW 25 kHz Freq 815.025 MHz TRIG:JPD(17MHz) YIG Bypass TFM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz 1001 pts 10.0 ms 4 Result Summary Carrier Power 28.59 dBm Carrier Offset 488.11 Hz +Peak -Peak +Peak/2 RMS Mod. Freq. SINAD THD FM 11.992 kHz -12.178 kHz 12.085 kHz 8.6931 kHz 1.0435 kHz --- --- Analog Demod: Waiting for Trigger... Measuring... 09.03.2020 15:19:04 OFF~ON
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 36.00 dBm Offset 30.50 dB Att 15 dB AQT 100 ms DBW 25 kHz Freq 815.025 MHz TRIG:JPD(17MHz) YIG Bypass TFM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz 1001 pts 10.0 ms 4 Result Summary Carrier Power 28.50 dBm Carrier Offset 471.46 Hz +Peak -Peak +Peak/2 RMS Mod. Freq. SINAD THD FM 12.044 kHz -13.708 kHz 12.876 kHz 8.6836 kHz 999.72 Hz --- --- Analog Demod: Waiting for Trigger... Measuring... 09.03.2020 15:18:19 ON~OFF
TX-AWH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 36.00 dBm Offset 30.50 dB Att 15 dB AQT 100 ms DBW 50 kHz Freq 815.025 MHz TRIG:JPD(17MHz) YIG Bypass TFM Time Domain 25 kHz 18.75 kHz 12.5 kHz 6.25 kHz 0 kHz -6.25 kHz -12.5 kHz -18.75 kHz -25 kHz 1001 pts 10.0 ms 4 Result Summary Carrier Power 28.54 dBm Carrier Offset 498.88 Hz +Peak -Peak +Peak/2 RMS Mod. Freq. SINAD THD FM 25.653 kHz -24.666 kHz 25.159 kHz 17.411 kHz 1.0 kHz --- --- Analog Demod: Waiting for Trigger... Measuring... 09.03.2020 15:15:34 OFF~ON



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-AWH	FM	CH _{M2}	MultiviewSpectrumAnalog Demod Ref Level 36.00 dBm Offset 30.50 dB Att 15 dB AQT 100 ms DBW 50 kHz Freq 815.025 MHz TSG:JFP(170MHz) YGS Bypass 1 FM Time Domain 25 kHz 18.75 kHz 12.5 kHz 6.25 kHz 0 kHz -6.25 kHz -12.5 kHz -18.75 kHz -25 kHz CF 815.025 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td></td><td colspan="2">Carrier Power 28.49 dBm</td><td colspan="2">Carrier Offset 473.02 Hz</td></tr><tr><td>FM</td><td>+Peak 25.269 kHz</td><td>-Peak -29.63 kHz</td><td>±Peak/2 27.45 kHz</td><td>RMS 17.397 kHz</td></tr><tr><td></td><td></td><td></td><td>Mod. Freq. 1.0001 kHz</td><td>SINAD</td></tr><tr><td></td><td></td><td></td><td></td><td>THD</td></tr></table> Analog Demod: Waiting for Trigger...Measuring... Date: 9 MAR 2020 15:16:44 ON-OFF		Carrier Power 28.49 dBm		Carrier Offset 473.02 Hz		FM	+Peak 25.269 kHz	-Peak -29.63 kHz	±Peak/2 27.45 kHz	RMS 17.397 kHz				Mod. Freq. 1.0001 kHz	SINAD					THD
	Carrier Power 28.49 dBm		Carrier Offset 473.02 Hz																				
FM	+Peak 25.269 kHz	-Peak -29.63 kHz	±Peak/2 27.45 kHz	RMS 17.397 kHz																			
			Mod. Freq. 1.0001 kHz	SINAD																			
				THD																			

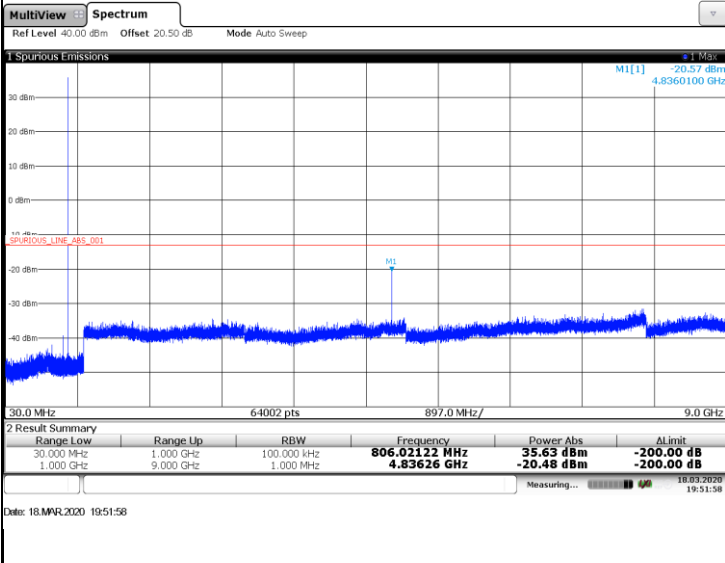
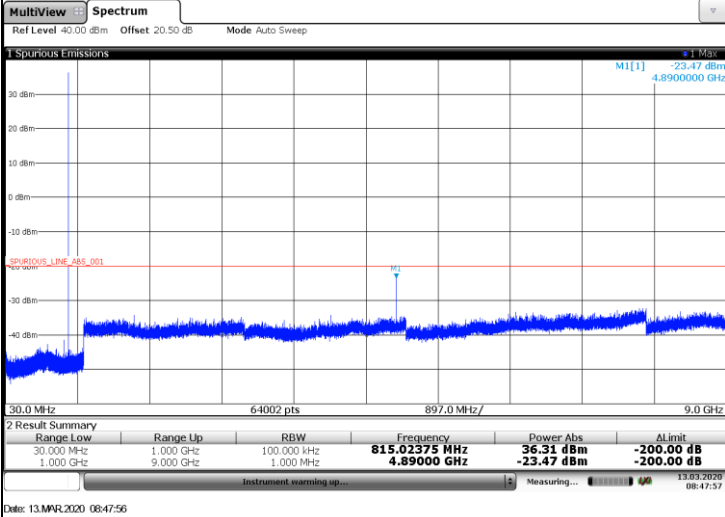
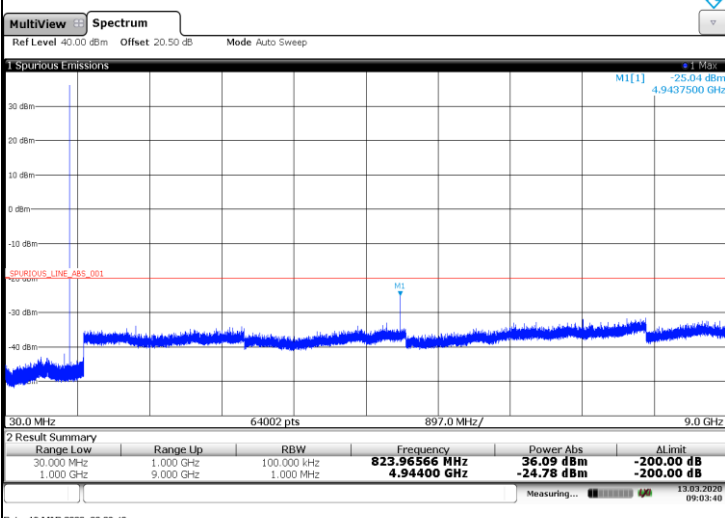


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CH _L	MultiViewSpectrum Ref Level 40.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm M1[1] -20.04 dBm 4.8360100 GHz SPURIOUS_LINE_ABS_001 -20.04 dBm 30.0 MHz 64002 pts 897.0 MHz/ 9.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>806.02112 MHz</td><td>35.62 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>4.83601 GHz</td><td>-20.04 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 18.03.2020 19:54:30 Date: 18.MAR.2020 19:54:29	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	806.02112 MHz	35.62 dBm	-200.00 dB	1.000 GHz	9.000 GHz	1.000 MHz	4.83601 GHz	-20.04 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	806.02112 MHz	35.62 dBm	-200.00 dB																
1.000 GHz	9.000 GHz	1.000 MHz	4.83601 GHz	-20.04 dBm	-200.00 dB																
TX-DNH	4FSK	CH _{M1}	MultiViewSpectrum Ref Level 40.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm M2[1] -32.21 dBm 559.6300 MHz M1[1] -24.13 dBm 4.8900000 GHz SPURIOUS_LINE_ABS_001 -24.13 dBm 30.0 MHz 64002 pts 897.0 MHz/ 9.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>814.99344 MHz</td><td>36.07 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>4.89000 GHz</td><td>-24.13 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 18.03.2020 09:07:28 Date: 13.MAR.2020 09:07:28	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	814.99344 MHz	36.07 dBm	-200.00 dB	1.000 GHz	9.000 GHz	1.000 MHz	4.89000 GHz	-24.13 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	814.99344 MHz	36.07 dBm	-200.00 dB																
1.000 GHz	9.000 GHz	1.000 MHz	4.89000 GHz	-24.13 dBm	-200.00 dB																
TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 40.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm M2[1] -23.23 dBm 166.6600 MHz M1[1] -23.20 dBm 4.9440000 GHz SPURIOUS_LINE_ABS_001 -23.20 dBm 30.0 MHz 64002 pts 897.0 MHz/ 9.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>823.96566 MHz</td><td>36.12 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>4.94400 GHz</td><td>-23.20 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 18.03.2020 09:10:58 Date: 13.MAR.2020 09:10:58	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	823.96566 MHz	36.12 dBm	-200.00 dB	1.000 GHz	9.000 GHz	1.000 MHz	4.94400 GHz	-23.20 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	823.96566 MHz	36.12 dBm	-200.00 dB																
1.000 GHz	9.000 GHz	1.000 MHz	4.94400 GHz	-23.20 dBm	-200.00 dB																

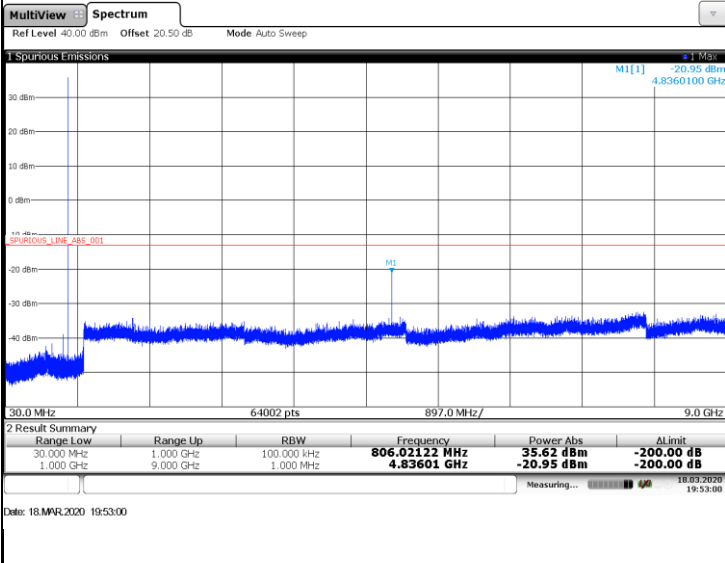
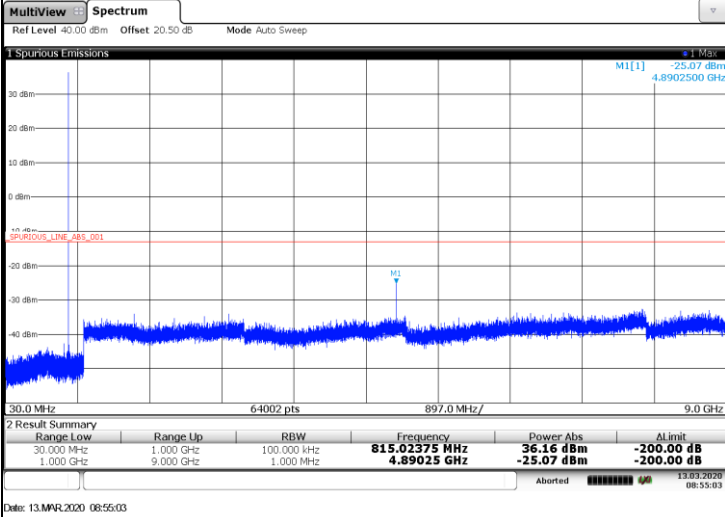
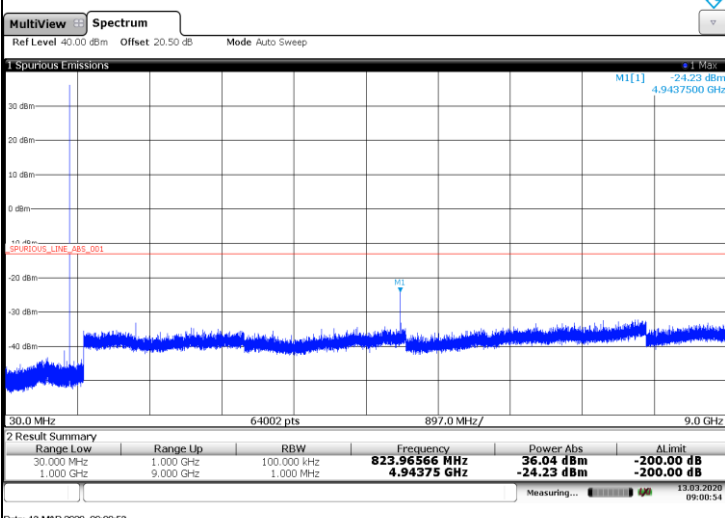


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	
TX-ANH	FM	CH _{M1}	
TX-ANH	FM	CH _H	



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _L	
TX-AWH	FM	CH _{M1}	
TX-AWH	FM	CH _H	

----End of Report----