

**Appendix A:Maximum Transmitter Power**

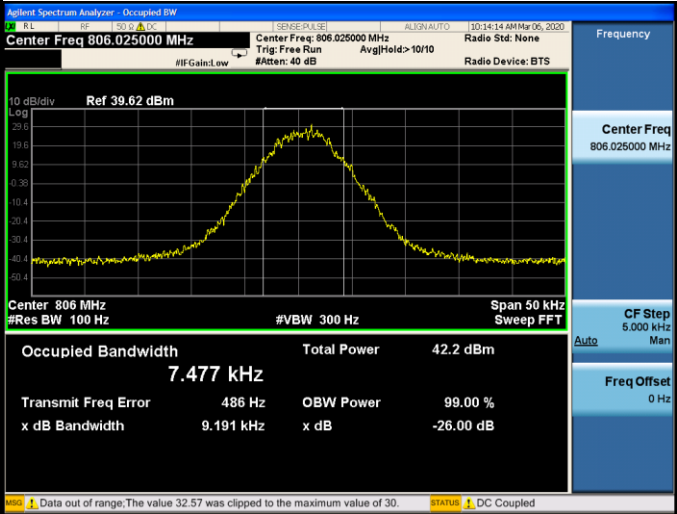
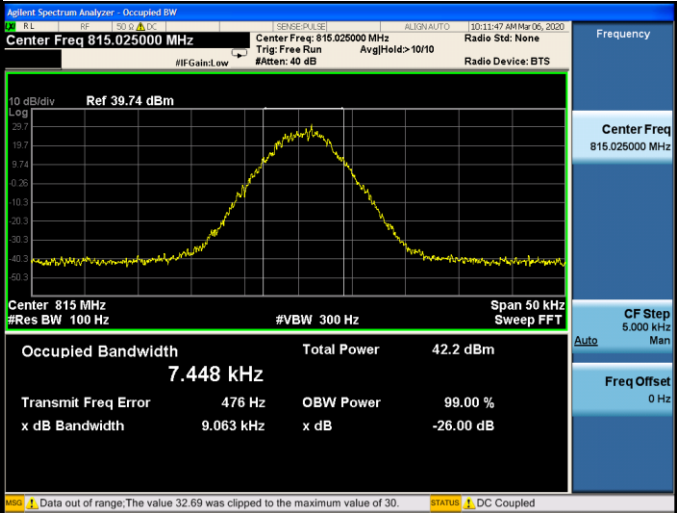
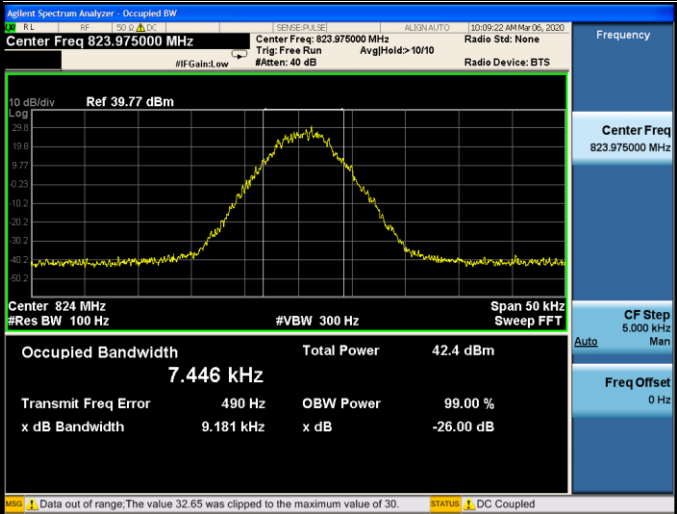
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	35.29	3.38	3.50	-3.4	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.27	3.37	3.50	-3.9	±20	PASS
TX-DNH	4FSK	CH _H	35.38	3.45	3.50	-1.4	±20	PASS
TX-DNL	4FSK	CH _L	30.61	1.15	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 #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT 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 #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT 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 #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT 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

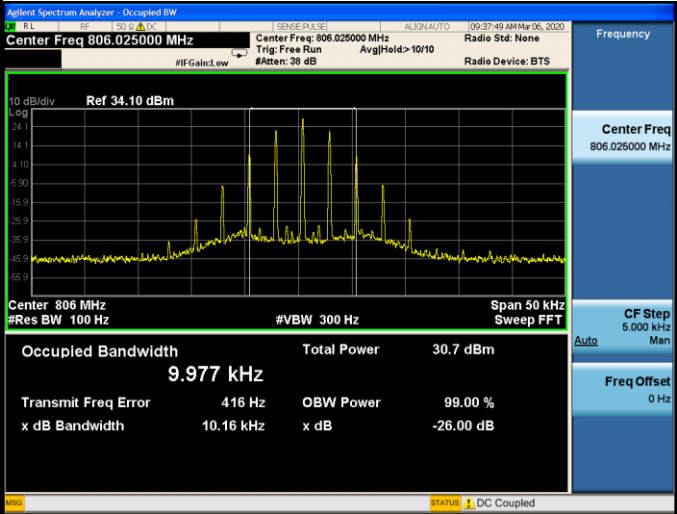
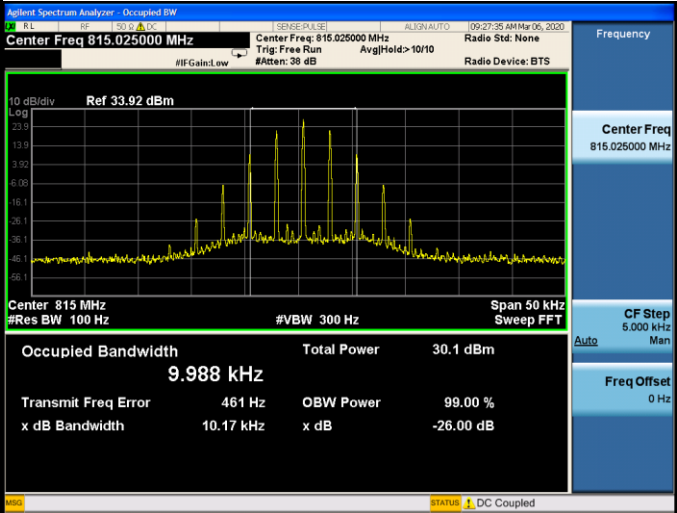
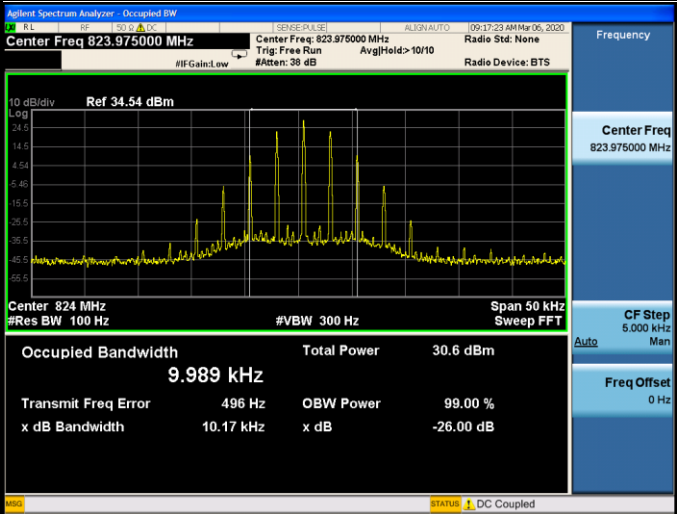


Appendix B:Occupied Bandwidth

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	 Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Ref 34.10 dBm Occupied Bandwidth 9.977 kHz Total Power 30.7 dBm Transmit Freq Error 416 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANL	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 815.025000 MHz Ref 33.92 dBm Occupied Bandwidth 9.988 kHz Total Power 30.1 dBm Transmit Freq Error 461 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Ref 34.54 dBm Occupied Bandwidth 9.989 kHz Total Power 30.6 dBm Transmit Freq Error 496 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB

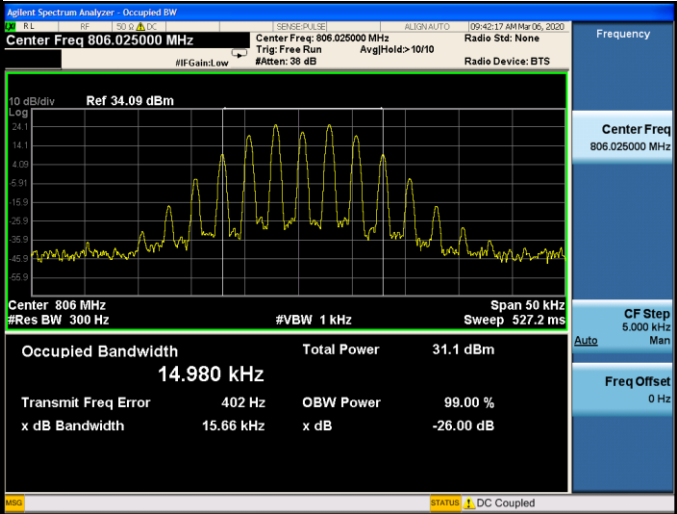
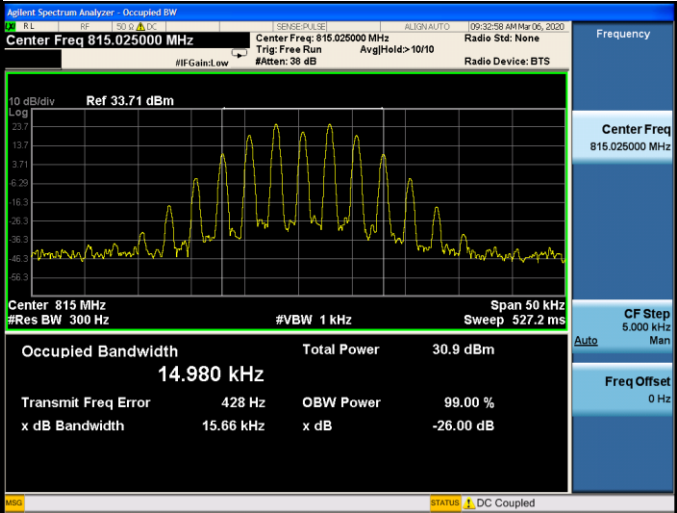
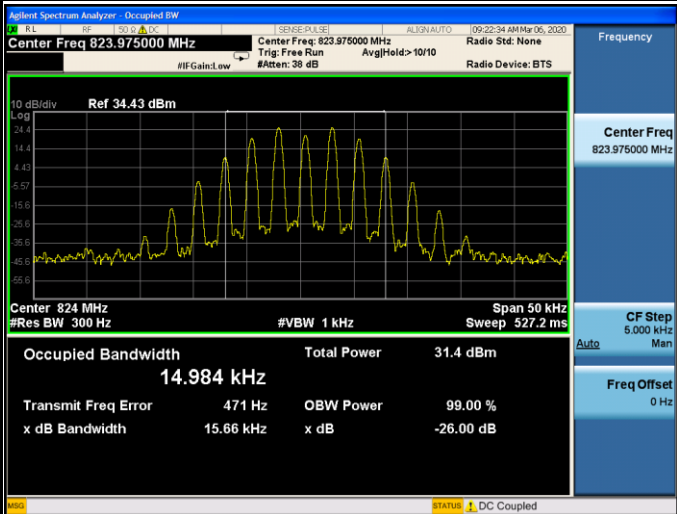


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-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

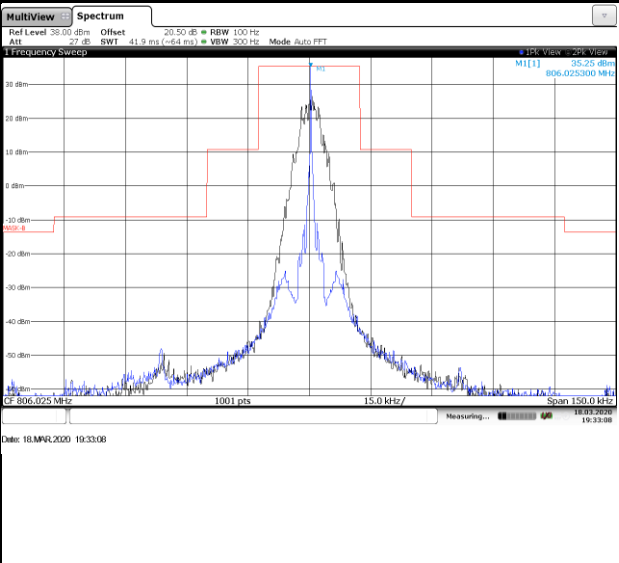
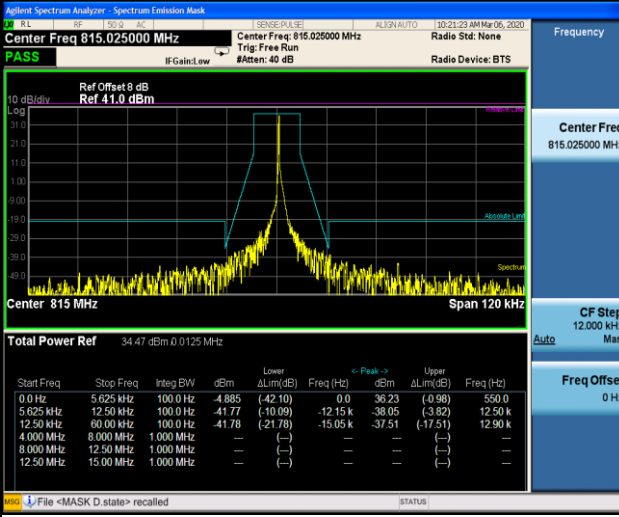
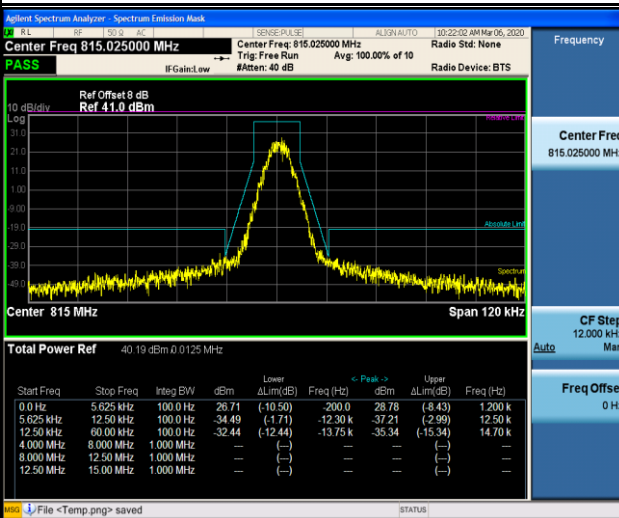


Appendix B:Occupied Bandwidth

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 RLSENSE-PULSE ALIGN AUTO 09:15:49 AM Mar 06, 2020 Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Att: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 42.0 dBm Center 824 MHz Span 120 kHz Total Power Ref 36.89 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-24.93</td><td>(-82.54)</td><td>-2.400 k</td><td>-36.86</td><td>(-0.75)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.92</td><td>(7.54)</td><td>-11.75 k</td><td>-35.96</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>-34.78</td><td>(-14.78)</td><td>-12.65 k</td><td>-34.70</td><td>(-14.70)</td><td>13.65 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 <MASK D.state> recalled STATUS Frequency Center Freq 823.975000 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-24.93	(-82.54)	-2.400 k	-36.86	(-0.75)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.92	(7.54)	-11.75 k	-35.96	(-2.13)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.78	(-14.78)	-12.65 k	-34.70	(-14.70)	13.65 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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RLSENSE-PULSE ALIGN AUTO 10:10:17 AM Mar 06, 2020 Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 8 dB Ref 41.0 dBm Center 824 MHz Span 120 kHz Total Power Ref 39.97 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.72</td><td>(-10.61)</td><td>0.0</td><td>26.82</td><td>(-10.50)</td><td>2.000 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.43</td><td>(-2.32)</td><td>-12.50 k</td><td>-36.61</td><td>(-3.59)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.23</td><td>(-15.23)</td><td>-14.05 k</td><td>-34.57</td><td>(-14.57)</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 <Temp.png> saved STATUS Frequency Center Freq 823.975000 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.72	(-10.61)	0.0	26.82	(-10.50)	2.000 k	5.625 kHz	12.50 kHz	100.0 Hz	-36.43	(-2.32)	-12.50 k	-36.61	(-3.59)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.23	(-15.23)	-14.05 k	-34.57	(-14.57)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	MultiView - Spectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21.8 SWT 41.9 ms (-64 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep CF 806.025 MHz Span 150.0 kHz 1001 pts 15.0 kHz Measuring... 19:37:53 Date: 18.MAR.2020 19:37:53																																																															

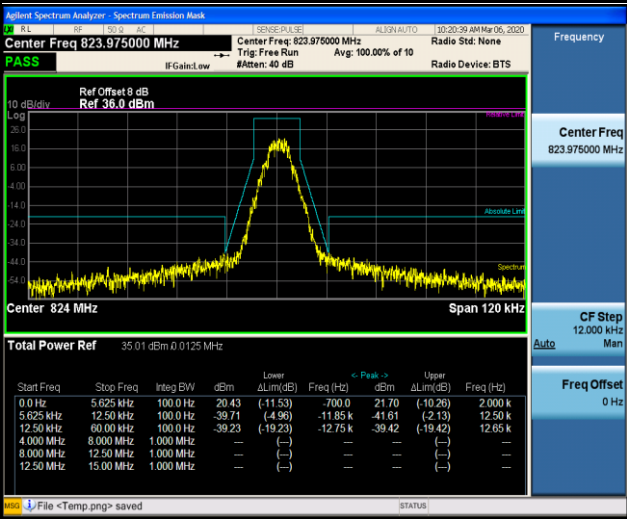
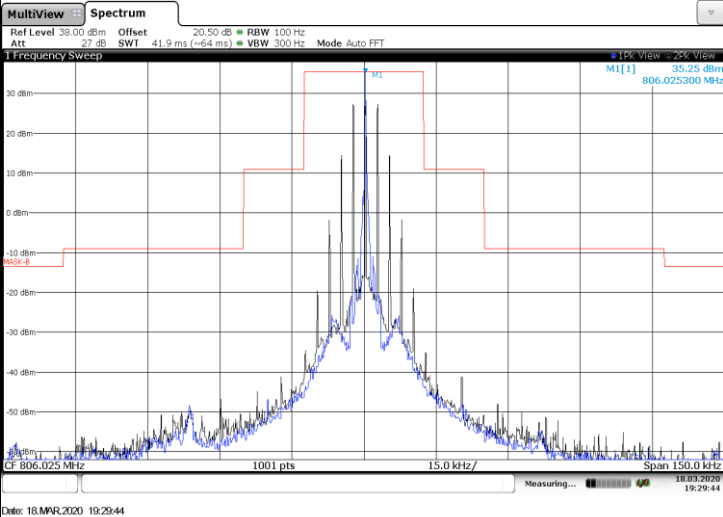
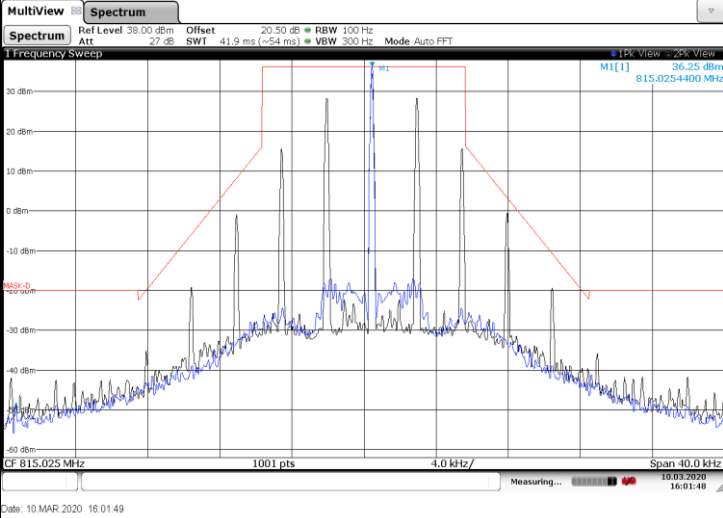


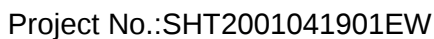
Appendix C:Emission Mask

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 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 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	—	(—)	—	—	(—)	—
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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 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 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	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 09:18:11 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 30.0 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 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	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

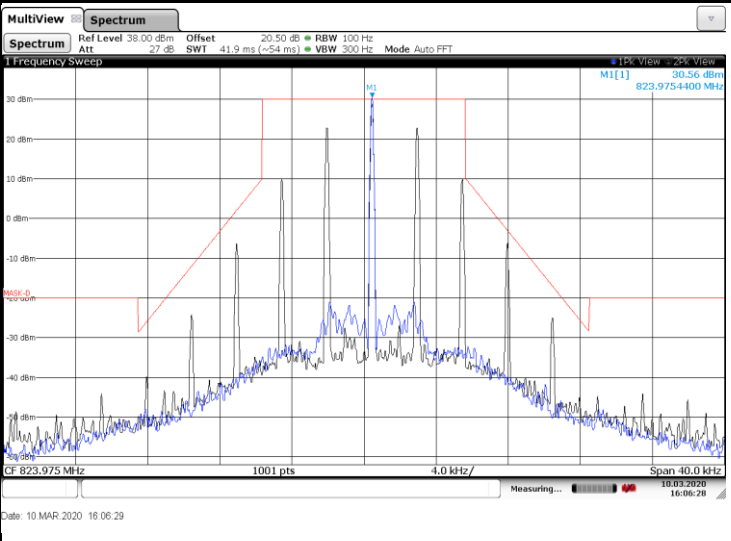
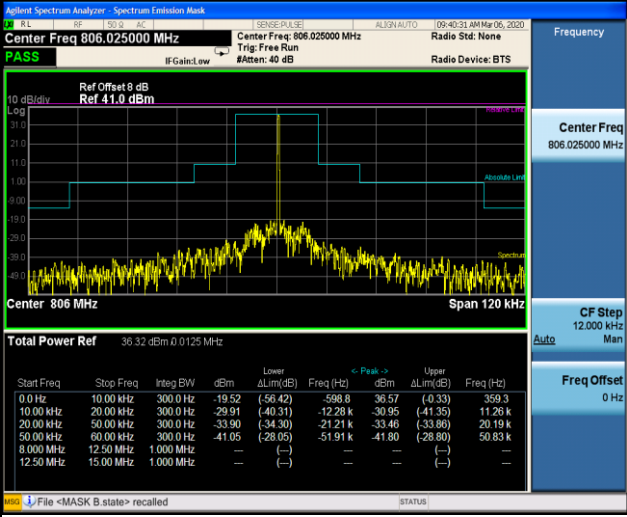
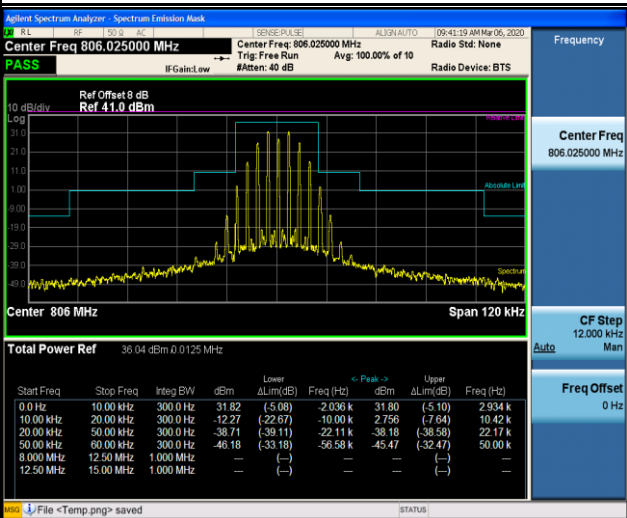
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	
TX-ANH	FM	CH _L	
TX-ANH	FM	CH _{M1}	



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _H	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB BW 100 Hz Att 27 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep CF 823.975 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Date: 10 MAR 2020 16:02:47
TX-ANL	FM	CH _L	MultiView Spectrum Ref Level 32.00 dBm Offset 20.50 dB BW 100 Hz Att 21 dB SWI 41.9 ms (~64 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep CF 806.025 MHz 1001 pts 15.0 kHz/ Span 150.0 kHz Date: 18 MAR 2020 19:38:56
TX-ANL	FM	CH _{M1}	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB BW 100 Hz Att 27 dB SWI 41.9 ms (~54 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep CF 815.025 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Date: 10 MAR 2020 16:07:42



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _H	
TX-AWH	FM	CH _L	
TX-AWH	FM	CH _L	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask SENSE: PULSE ALIGN: AUTO 09:31:17 AM Mar 06, 2020 Center Freq 815.025000 MHz Center Freq: 815.025000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 9.00 29.0 39.0 49.0 Center 815 MHz Span 120 kHz Total Power Ref 36.54 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>-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>-26.83</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></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	-17.49	(54.64)	-179.6	36.79	(0.35)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-26.83	(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	—	(—)	—	—	(—)	—
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TX-AWH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask SENSE: PULSE ALIGN: AUTO 09:32:06 AM Mar 06, 2020 Center Freq 815.025000 MHz Center Freq: 815.025000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 8 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 9.00 29.0 39.0 49.0 Center 815 MHz Span 120 kHz Total Power Ref 36.28 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>32.02</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>21.15 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></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	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)	21.15 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	—	(—)	—	—	(—)	—
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TX-AWH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask SENSE: PULSE ALIGN: AUTO 09:32:35 AM Mar 06, 2020 Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 28.0 38.0 48.0 Center 824 MHz Span 120 kHz Total Power Ref 36.87 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>-19.16</td><td>(56.68)</td><td>-479.0</td><td>37.11</td><td>(0.41)</td><td>538.9</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>19.24 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></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	-19.16	(56.68)	-479.0	37.11	(0.41)	538.9	10.00 kHz	20.00 kHz	300.0 Hz	-30.25	(41.27)	-13.24 k	-29.49	(40.51)	19.24 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)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 09:21:24 AM Mar 06, 2020 Center Freq 823.975000 MHz Center Freq 823.975000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Attenu: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 42.0 dBm 10 dB/div Log 30.0 22.0 12.0 2.00 18.0 20.0 30.0 40.0 Center 824 MHz Span 120 kHz Total Power Ref 36.57 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>32.33</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></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 > 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)																																																										
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TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 09:42:59 AM Mar 06, 2020 Center Freq 806.025000 MHz Center Freq 806.025000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Attenu: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 30.0 20.0 16.0 6.00 14.0 24.0 34.0 44.0 54.0 Center 806 MHz Span 120 kHz Total Power Ref 31.04 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 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>(-34.25)</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></tbody></table> File <MASK B.state> recalled STATUS 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 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	(-34.25)	-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)																																																										
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TX-AWL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE-PULSE ALIGN-AUTO 09:43:49 AM Mar 06, 2020 Center Freq 806.025000 MHz Center Freq 806.025000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Attenu: 40 dB Radio Device: BTS Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 30.0 20.0 16.0 6.00 14.0 24.0 34.0 44.0 54.0 Center 806 MHz Span 120 kHz Total Power Ref 30.77 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>10.00 kHz</td><td>300.0 Hz</td><td>26.56</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>-17.80</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></tbody></table> File <Temp.png> saved STATUS 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 Hz	10.00 kHz	300.0 Hz	26.56	(-5.05)	-2.036 k	26.55	(-5.07)	2.874 k	10.00 kHz	20.00 kHz	300.0 Hz	-17.80	(-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	—	(—)	—	—	(—)	—
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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: PULSE ALIGN: AUTO 09:33:42 AM Mar 05, 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	—	(—)	—	—	(—)	—
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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: PULSE ALIGN: AUTO 09:34:31 AM Mar 05, 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)																																																										
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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: PULSE ALIGN: AUTO 09:23:18 AM Mar 05, 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>31.55</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>(-40.05)</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	31.55	(-0.27)	538.9	10.00 kHz	20.00 kHz	300.0 Hz	-34.70	(-40.05)	-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)																																																										
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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 Center Freq 823.975000 MHz PASS IF Gain: Low 1 SENSE PLANE Center Freq: 823.975000 MHz Trig: Free Run Attenu: 40 dB ALIGN AUTO 09:24:07 AM Mar 06, 2020 Radio Std: None Avg: 100.00% of 10 Radio Device: BTS Ref Offset 8 dB Ref 36.0 dBm 10 dB/div Log 20.00 18.00 16.00 14.00 12.00 10.00 8.00 6.00 4.00 2.00 0.00 -2.00 -4.00 -6.00 -8.00 -10.00 -12.00 -14.00 -16.00 -18.00 -20.00 -22.00 -24.00 -26.00 -28.00 -30.00 -32.00 -34.00 -36.00 -38.00 -40.00 -42.00 -44.00 -46.00 -48.00 -50.00 -52.00 -54.00 -56.00 -58.00 -60.00 -62.00 -64.00 -66.00 -68.00 -70.00 -72.00 -74.00 -76.00 -78.00 -80.00 -82.00 -84.00 -86.00 -88.00 -90.00 -92.00 -94.00 -96.00 -98.00 -100.00 Center 824 MHz Span 120 kHz Total Power Ref 31.09 dBm 0.0125 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 — (—) — — (—) — Frequency Center Freq 823.975000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS

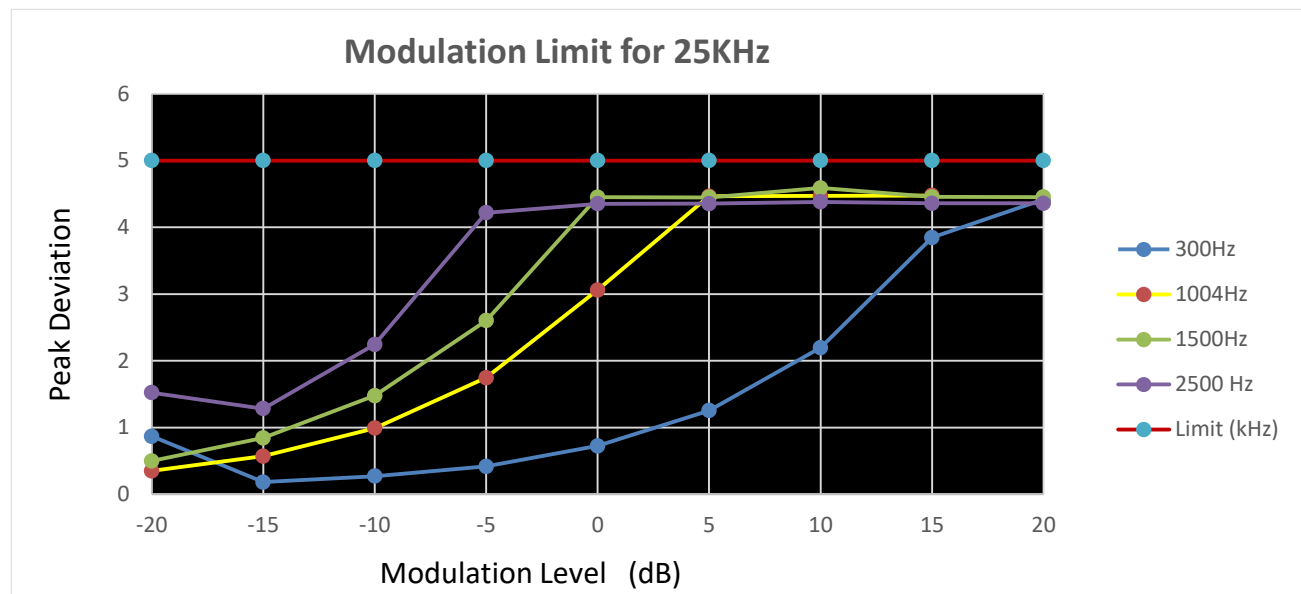
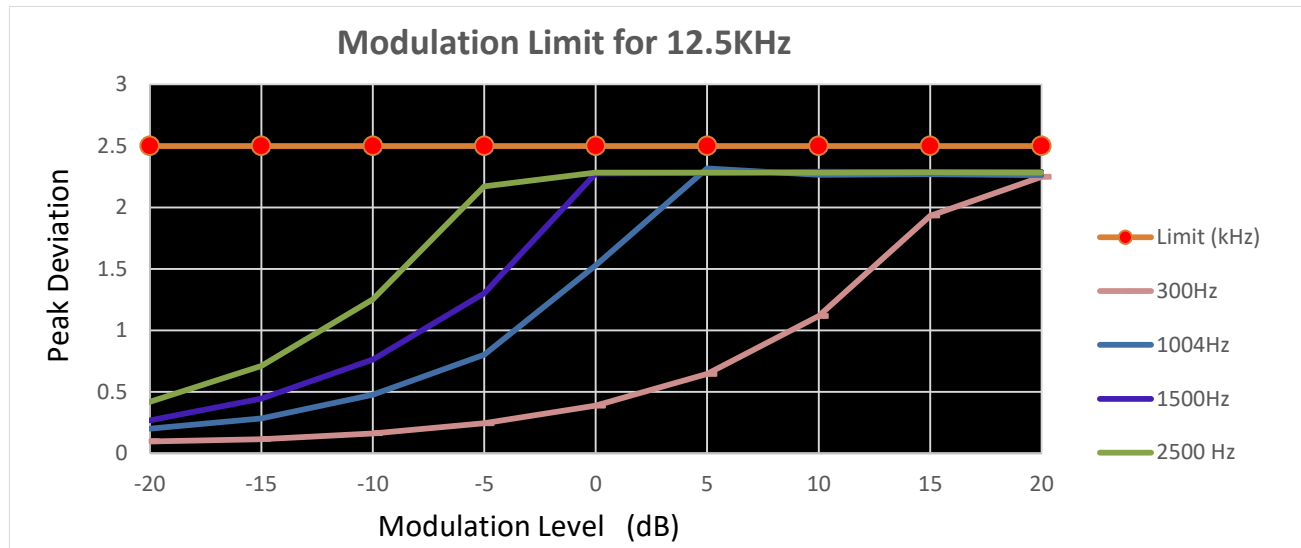
**Appendix D:Modulation Limit**

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**

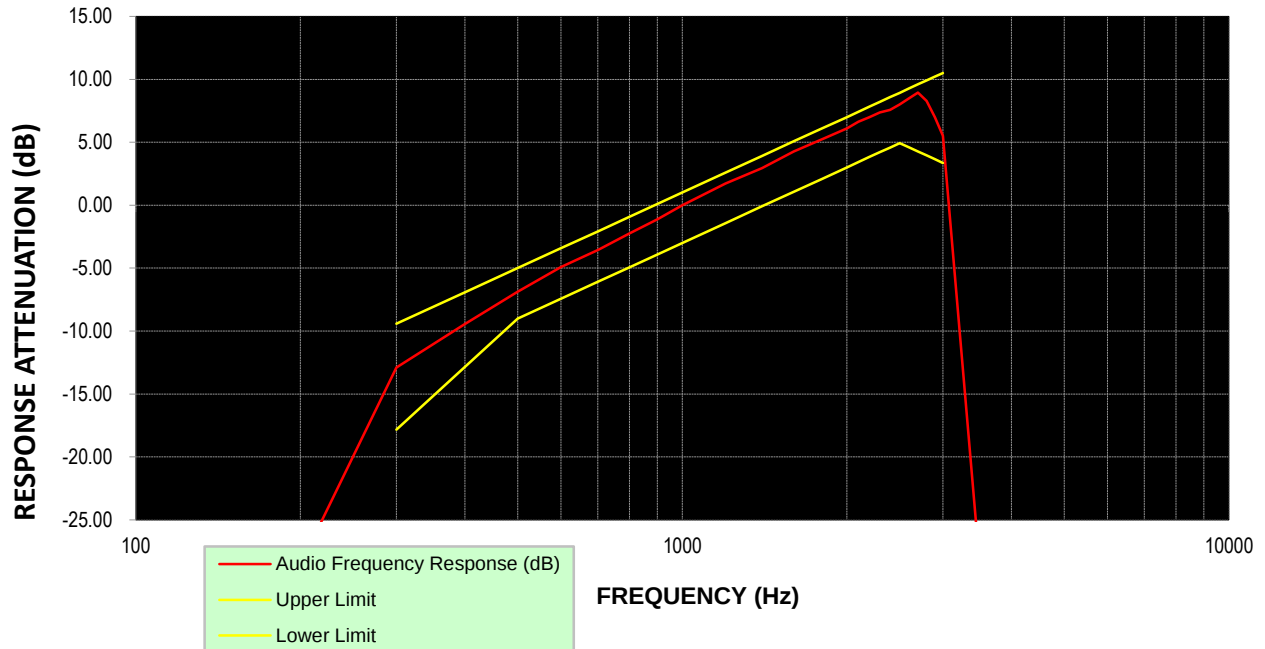
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH _{M2}	1800	5.29	2.09	6.09	PASS
TX-AWH	FM	CH _{M2}	2000	6.16	3.00	7.00	PASS
TX-AWH	FM	CH _{M2}	2100	6.69	3.42	7.42	PASS
TX-AWH	FM	CH _{M2}	2200	7.05	3.83	7.83	PASS
TX-AWH	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



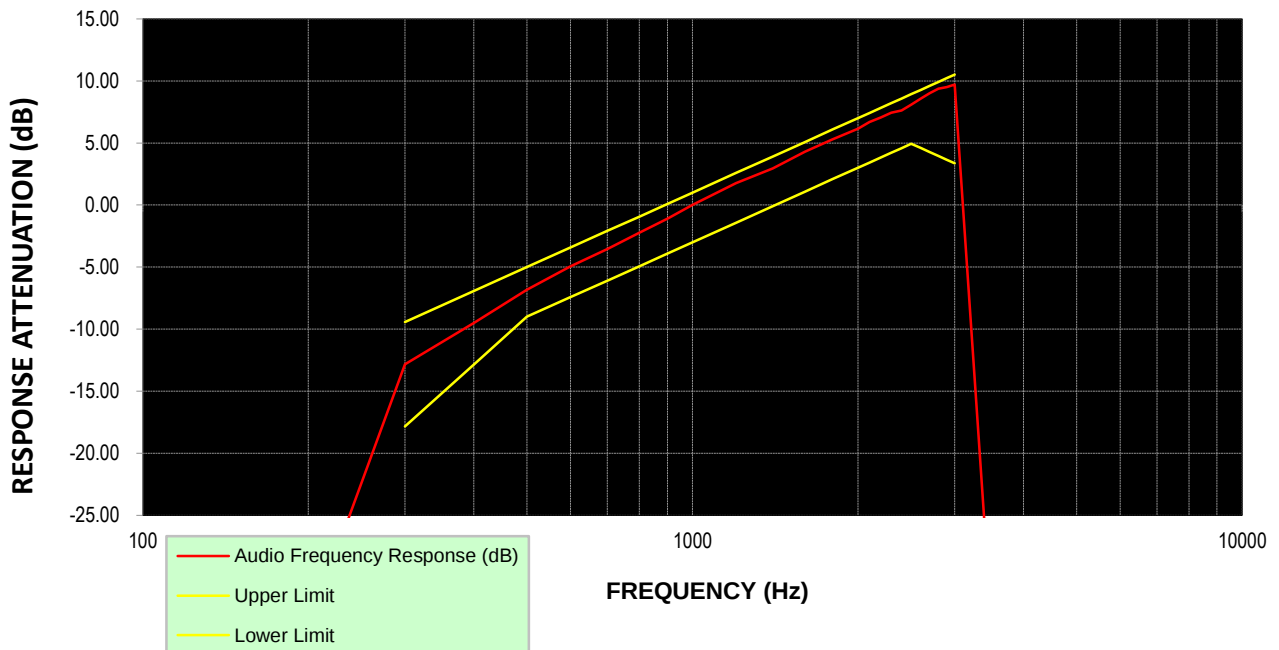
Appendix E:Aduio Frequency Response

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 FM +Peak 11.992 kHz -Peak -12.178 kHz +Peak/2 12.085 kHz RMS 8.6931 kHz Mod. Freq. 1.0435 kHz SINAD --- THD --- 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 FM +Peak 12.044 kHz -Peak -13.708 kHz +Peak/2 12.876 kHz RMS 8.6836 kHz Mod. Freq. 999.72 Hz SINAD --- THD --- 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 FM +Peak 25.653 kHz -Peak -24.666 kHz +Peak/2 25.159 kHz RMS 17.411 kHz Mod. Freq. 1.0 kHz SINAD --- THD --- Analog Demod: Waiting for Trigger... Measuring... 09.03.2020 15:15:34 OFF~ON

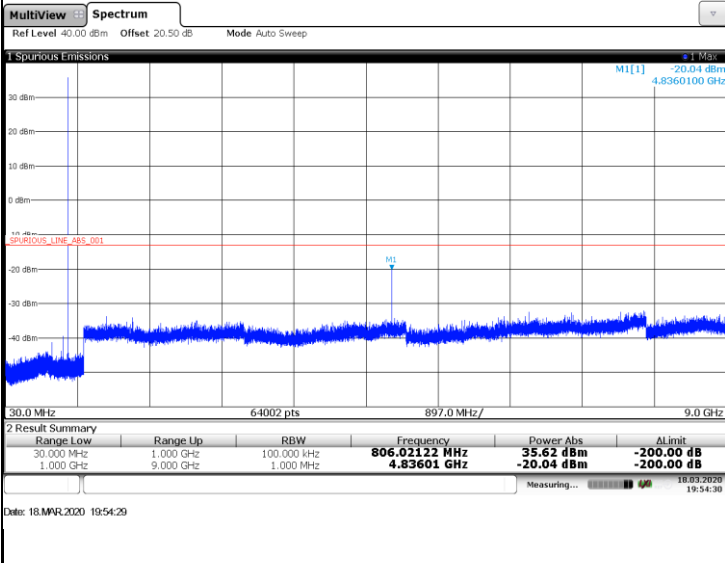
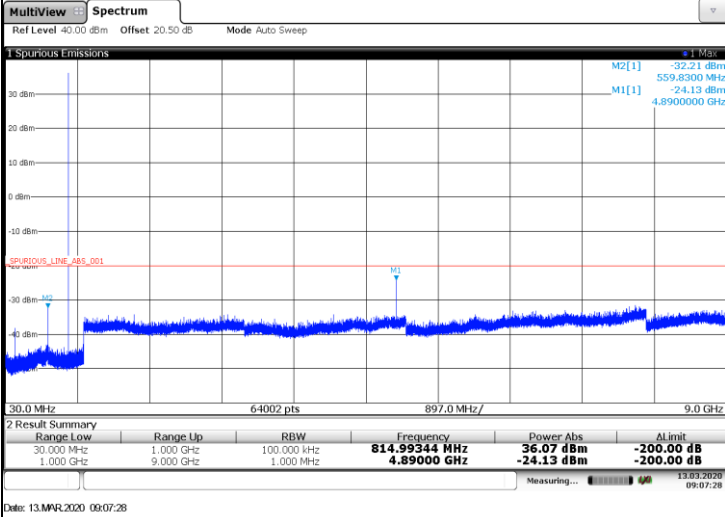
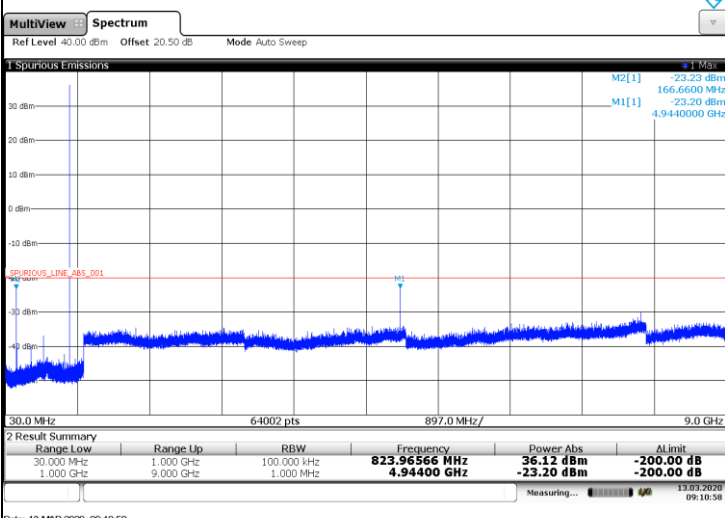


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT															
TX-AWH	FM	CH _{M2}	MultViewSpectrumAnalog Demod Ref Level 36.00 dBm Offset 30.50 dB Att 15 dB AQT 100 ms DBW 50 kHz Freq 815.025 MHz TRG:JFP(170MHz) YIG 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 THD</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...09.03.2020 15:16:44 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	
TX-DNH	4FSK	CH _{M1}	
TX-DNH	4FSK	CH _H	

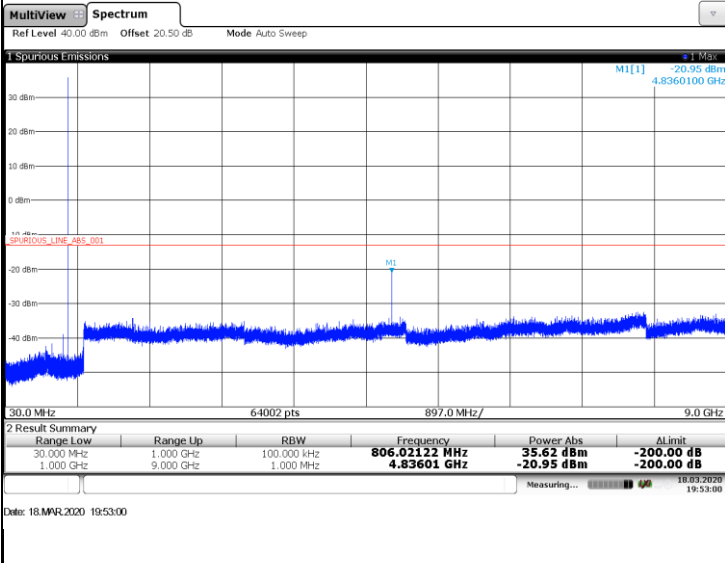
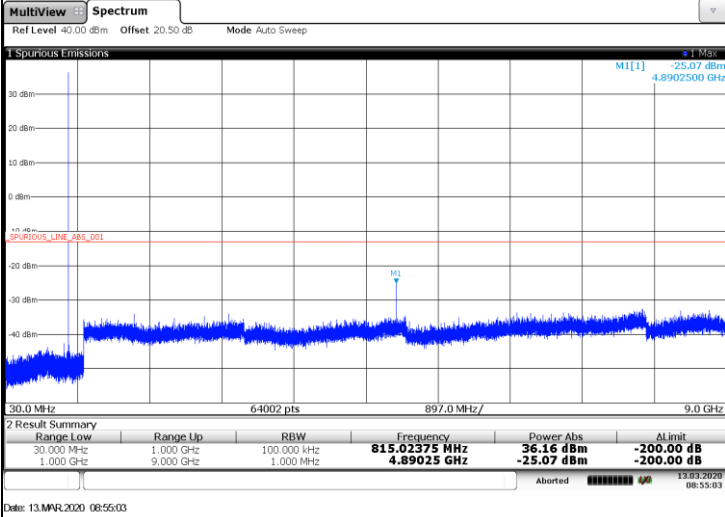
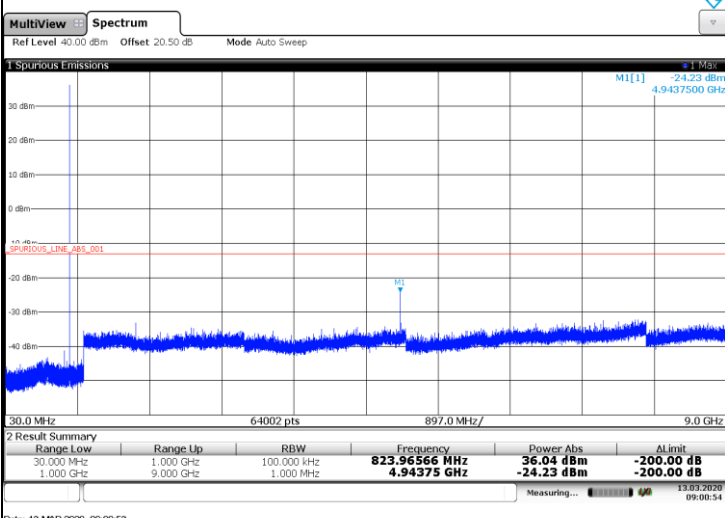


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-ANH	FM	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 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>35.63 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>4.83626 GHz</td><td>-20.48 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 18.03.2020 19:51:58	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	806.02112 MHz	35.63 dBm	-200.00 dB	1.000 GHz	9.000 GHz	1.000 MHz	4.83626 GHz	-20.48 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	35.63 dBm	-200.00 dB																
1.000 GHz	9.000 GHz	1.000 MHz	4.83626 GHz	-20.48 dBm	-200.00 dB																
TX-ANH	FM	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 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>815.02375 MHz</td><td>36.31 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>-23.47 dBm</td><td>-200.00 dB</td></tr></table> Instrument warming up... 13.03.2020 08:47:57	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	815.02375 MHz	36.31 dBm	-200.00 dB	1.000 GHz	9.000 GHz	1.000 MHz	4.89000 GHz	-23.47 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	815.02375 MHz	36.31 dBm	-200.00 dB																
1.000 GHz	9.000 GHz	1.000 MHz	4.89000 GHz	-23.47 dBm	-200.00 dB																
TX-ANH	FM	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 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>36.09 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>-24.78 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 13.03.2020 09:03:40	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	823.96566 MHz	36.09 dBm	-200.00 dB	1.000 GHz	9.000 GHz	1.000 MHz	4.94400 GHz	-24.78 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	36.09 dBm	-200.00 dB																
1.000 GHz	9.000 GHz	1.000 MHz	4.94400 GHz	-24.78 dBm	-200.00 dB																



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----