



Appendix B: Occupied Bandwidth



Appendix B: Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 512.012500 MHz Ref 51.03 dBm 10 dB/div Log 10.0 20.0 30.0 40.0 50.0 60.0 1.0 2.0 3.0 4.0 5.0 6.0 1.03 2.07 3.1 4.13 5.17 6.21 1.07 2.11 3.14 4.17 5.21 6.25 1.11 2.15 3.18 4.21 5.25 6.29 1.15 2.19 3.22 4.25 5.29 6.33 1.19 2.23 3.26 4.29 5.33 6.37 1.23 2.27 3.3 4.33 5.37 6.41 1.27 2.31 3.34 4.37 5.41 6.45 1.31 2.35 3.38 4.41 5.45 6.49 1.35 2.39 3.42 4.45 5.49 6.53 1.39 2.43 3.46 4.49 5.53 6.57 1.43 2.47 3.5 4.53 5.57 6.61 1.47 2.51 3.54 4.57 5.61 6.65 1.51 2.55 3.58 4.61 5.65 6.69 1.55 2.59 3.62 4.65 5.69 6.73 1.59 2.63 3.66 4.69 5.73 6.77 1.63 2.67 3.7 4.73 5.77 6.81 1.67 2.71 3.74 4.77 5.81 6.85 1.71 2.75 3.78 4.81 5.85 6.89 1.75 2.79 3.82 4.85 5.89 6.93 1.79 2.83 3.86 4.89 5.93 6.97 1.83 2.87 3.9 4.93 5.97 7.01 1.87 2.91 3.94 4.97 6.01 7.05 1.91 2.95 3.98 5.01 6.05 7.09 1.95 2.99 4.02 5.05 6.09 7.13 1.99 3.03 4.06 5.09 6.13 7.17 2.03 3.07 4.1 5.13 6.17 7.21 2.07 3.11 4.14 5.17 6.21 7.25 2.11 3.15 4.18 5.21 6.25 7.29 2.15 3.19 4.22 5.25 6.29 7.33 2.19 3.23 4.26 5.29 6.33 7.37 2.23 3.27 4.3 5.33 6.37 7.41 2.27 3.31 4.34 5.37 6.41 7.45 2.31 3.35 4.38 5.41 6.45 7.49 2.35 3.39 4.42 5.45 6.49 7.53 2.39 3.43 4.46 5.49 6.53 7.57 2.43 3.47 4.5 5.53 6.57 7.61 2.47 3.51 4.54 5.57 6.61 7.65 2.51 3.55 4.58 5.61 6.65 7.69 2.55 3.59 4.62 5.65 6.69 7.73 2.59 3.63 4.66 5.69 6.73 7.77 2.63 3.67 4.7 5.73 6.77 7.81 2.67 3.71 4.74 5.77 6.81 7.85 2.71 3.75 4.78 5.81 6.85 7.89 2.75 3.79 4.82 5.85 6.89 7.93 2.79 3.83 4.86 5.89 6.93 7.97 2.83 3.87 4.9 5.93 6.97 8.01 2.87 3.91 4.94 5.97 7.01 8.05 2.91 3.95 4.98 6.01 7.05 8.09 2.95 3.99 5.02 6.05 7.09 8.13 2.99 4.03 5.06 6.09 7.13 8.17 3.03 4.07 5.1 6.13 7.17 8.21 3.07 4.11 5.14 6.17 7.21 8.25 3.11 4.15 5.18 6.21 7.25 8.29 3.15 4.19 5.22 6.25 7.29 8.33 3.19 4.23 5.26 6.29 7.33 8.37 3.23 4.27 5.3 6.33 7.37 8.41 3.27 4.31 5.34 6.37 7.41 8.45 3.31 4.35 5.38 6.41 7.45 8.49 3.35 4.39 5.42 6.45 7.49 8.53 3.39 4.43 5.46 6.49 7.53 8.57 3.43 4.47 5.5 6.53 7.57 8.61 3.47 4.51 5.54 6.57 7.61 8.65 3.51 4.55 5.58 6.61 7.65 8.69 3.55 4.59 5.62 6.65 7.69 8.73 3.59 4.63 5.66 6.69 7.73 8.77 3.63 4.67 5.7 6.73 7.77 8.81 3.67 4.71 5.74 6.77 7.81 8.85 3.71 4.75 5.78 6.81 7.85 8.89 3.75 4.79 5.82 6.85 7.89 8.93 3.79 4.83 5.86 6.89 7.93 8.97 3.83 4.87 5.9 6.93 7.97 9.01 3.87 4.91 5.94 6.97 8.01 9.05 3.91 4.95 5.98 7.01 8.05 9.09 3.95 4.99 6.02 7.05 8.09 9.13 3.99 5.03 6.06 7.09 8.13 9.17 4.03 5.07 6.1 7.13 8.17 9.21 4.07 5.11 6.14 7.17 8.21 9.25 4.11 5.15 6.18 7.21 8.25 9.29 4.15 5.19 6.22 7.25 8.29 9.33 4.19 5.23 6.26 7.29 8.33 9.37 4.23 5.27 6.3 7.33 8.37 9.41 4.27 5.31 6.34 7.37 8.41 9.45 4.31 5.35 6.38 7.41 8.45 9.49 4.35 5.39 6.42 7.45 8.49 9.53 4.39 5.43 6.46 7.49 8.53 9.57 4.43 5.47 6.5 7.53 8.57 9.61 4.47 5.51 6.54 7.57 8.61 9.65 4.51 5.55 6.58 7.61 8.65 9.69 4.55 5.59 6.62 7.65 8.69 9.73 4.59 5.63 6.66 7.69 8.73 9.77 4.63 5.67 6.7 7.73 8.77 9.81 4.67 5.71 6.74 7.77 8.81 9.85 4.71 5.75 6.78 7.81 8.85 9.89 4.75 5.79 6.82 7.85 8.89 9.93 4.79 5.83 6.86 7.89 8.93 9.97 4.83 5.87 6.9 7.93 8.97 10.01 4.87 5.91 6.94 7.97 9.01 10.05 4.91 5.95 6.98 8.01 9.05 10.09 4.95 5.99 7.02 8.05 9.09 10.13 4.99 6.03 7.06 8.09 9.13 10.17 5.03 6.07 7.1 8.13 9.17 10.21 5.07 6.11 7.14 8.17 9.21 10.25 5.11 6.15 7.18 8.21 9.25 10.29 5.15 6.19 7.22 8.25 9.29 10.33 5.19 6.23 7.26 8.29 9.33 10.37 5.23 6.27 7.3 8.33 9.37 10.41 5.27 6.31 7.34 8.37 9.41 10.45 5.31 6.35 7.38 8.41 9.45 10.49 5.35 6.39 7.42 8.45 9.49 10.53 5.39 6.43 7.46 8.49 9.53 10.57 5.43 6.47 7.5 8.53 9.57 10.61 5.47 6.51 7.54 8.57 9.61 10.65 5.51 6.55 7.58 8.61 9.65 10.69 5.55 6.59 7.62 8.65 9.69 10.73 5.59 6.63 7.66 8.69 9.73 10.77 5.63 6.67 7.7 8.73 9.77 10.81 5.67 6.71 7.74 8.77 9.81 10.85 5.71 6.75 7.78 8.81 9.85 10.89 5.75 6.79 7.82 8.85 9.89 10.93 5.79 6.83 7.86 8.89 9.93 10.97 5.83 6.87 7.9 8.93 9.97 11.01 5.87 6.91 7.94 8.97 10.01 11.05 5.91 6.95 7.98 9.01 10.05 11.09 5.95 6.99 8.02 9.05 10.09 11.13 5.99 7.03 8.06 9.09 10.13 11.17 6.03 7.07 8.1 9.13 10.17 11.21 6.07 7.11 8.14 9.17 10.21 11.25 6.11 7.15 8.18 9.21 10.25 11.29 6.15 7.19 8.22 9.25 10.29 11.33 6.19 7.23 8.26 9.29 10.33 11.37 6.23 7.27 8.3 9.33 10.37 11.41 6.27 7.31 8.34 9.37 10.41 11.45 6.31 7.35 8.38 9.41 10.45 11.49 6.35 7.39 8.42 9.45 10.49 11.53 6.39 7.43 8.46 9.49 10.53 11.57 6.43 7.47 8.5 9.53 10.57 11.61 6.47 7.51 8.54 9.57 10.61 11.65 6.51 7.55 8.58 9.61 10.65 11.69 6.55 7.59 8.62 9.65 10.69 11.73 6.59 7.63 8.66 9.69 10.73 11.77 6.63 7.67 8.7 9.73 10.77 11.81 6.67 7.71 8.74 9.77 10.81 11.85 6.71 7.75 8.78 9.81 10.85 11.89 6.75 7.79 8.82 9.85 10.89 11.93 6.79 7.83 8.86 9.89 10.93 11.97 6.83 7.87 8.9 9.93 10.97 12.01 6.87 7.91 8.94 9.97 11.01 12.05 6.91 7.95 8.98 10.01 11.05 12.09 6.95 7.99 10.02 10.05 11.09 12.13 6.99 8.03 10.06 10.09 11.13 12.17 7.03 8.07 10.1 10.13 11.17 12.21 7.07 8.11 10.14 10.17 11.21 12.25 7.11 8.15 10.18 10.21 11.25 12.29 7.15 8.19 10.22 10.25 11.29 12.33 7.19 8.23 10.26 10.29 11.33 12.37 7.23 8.27 10.3 10.33 11.37 12.41 7.27 8.31 10.34 10.37 11.41 12.45 7.31 8.35 10.38 10.41 11.45 12.49 7.35 8.39 10.42 10.45 11.49 12.53 7.39 8.43 10.46 10.49 11.53 12.57 7.43 8.47 10.5 10.53 11.57 12.61 7.47 8.51 10.54 10.57 11.61 12.65 7.51 8.55 10.58 10.61 11.65 12.69 7.55 8.59 10.62 10.65 11.69 12.73 7.59 8.63 10.66 10.69 11.73 12.77 7.63 8.67 10.7 10.73 11.77 12.81 7.67 8.71 10.74 10.77 11.81 12.85 7.71 8.75 10.78 10.81 11.85 12.89 7.75 8.79 10.82 10.85 11.89 12.93 7.79 8.83 10.86 10.89 11.93 12.97 7.83 8.87 10.9 10.93 11.97 13.01 7.87 8.91 10.94 10.97 12.01 13.05 7.91 8.95 10.98 11.01 12.05 13.09 7.95 8.99 11.02 11.05 12.09 13.13 7.99 9.03 11.06 11.09 12.13 13.17 8.03 9.07 11.1 11.13 12.17 13.21 8.07 9.11 11.14 11.17 12.21 13.25 8.11 9.15 11.18 11.21 12.25 13.29 8.15 9.19 11.22 11.25 12.29 13.33 8.19 9.23 11.26 11.29 12.33 13.37 8.23 9.27 11.3 11.33 12.37 13.41 8.27 9.31 11.34 11.37 12.41 13.45 8.31 9.35 11.38 11.41 12.45 13.49 8.35 9.39 11.42 11.45 12.49 13.53 8.39 9.43 11.46 11.49 12.53 13.57 8.43 9.47 11.5 11.53 12.57 13.61 8.47 9.51 11.54 11.57 12.61 13.65 8.51 9.55 11.58 11.61 12.65 13.69 8.55 9.59 11.62 11.65 12.69 13.73 8.59 9.63 11.66 11.69 12.73 13.77 8.63 9.67 11.7 11.73 12.77 13.81 8.67 9.71 11.74 11.77 12.81 13.85 8.71 9.75 11.78 11.81 12.85 13.89 8.75 9.79 11.82 11.85 12.89 13.93 8.79 9.83 11.86 11.89 12.93 13.97 8.83 9.87 11.9 11.93 12.97 14.01 8.87 9.91 11.94 11.97 13.01 14.05 8.91 9.95 11.98 12.01 13.05 14.09 8.95 9.99 12.02 12.05 13.09 14.13 8.99 10.03 12.06 12.09 13.13 14.17 9.03 10.07 12.1 12.13 13.17 14.21 9.07 10.11 12.14 12.17 13.21 14.25 9.11 10.15 12.18 12.21 13.25 14.29 9.15 10.19 12.22 12.25 13.29 14.33 9.19 10.23 12.26 12.29 13.33 14.37 9.23 10.27 12.3 12.33 13.37 14.41 9.27 10.31 12.34 12.37 13.41 14.45 9.31 10.35 12.38 12.41 13.45 14.49 9.35 10.39 12.42 12.45 13.49 14.53 9.39 10.43 12.46 12.49 13.53 14.57 9.43 10.47 12.5 12.53 13.57 14.61 9.47 10.51 12.54 12.57 13.61 14.65 9.51 10.55 12.58 12.61 13.65 14.69 9.55 10.59 12.62 12.65 13.69 14.73 9.59 10.63 12.66 12.69 13.73 14.77 9.63 10.67 12.7 12.73 13.77 14.81 9.67 10.71 12.74 12.77 13.81 14.85 9.71 10.75 12.78 12.81 13.85 14.89 9.75 10.79 12.82 12.85 13.89 14.93 9.79 10.83 12.86 12.89 13.93 14.97 9.83 10.87 12.9 12.93 13.97 15.01 9.87 10.91 12.94 12.97 14.01 15.05 9.91 10.95 12.98 13.01 14.05 15.09 9.95 10.99 13.02 13.05 14.09 15.13 9.99 11.03 13.06 13.09 14.13 15.17 10.03 11.07 13.1 13.13 14.17 15.21 10.07 11.11 13.14 13.17 14.21 15.25 10.11 11.15 13.18 13.21 14.25 15.29 10.15 11.19 13.22 13.25 14.29 15.33 10.19 11.23 13.26 13.29 14.33 15.37 10.23 11.27 13.3 13.33 14.37 15.41 10.27 11.31 13.34 13.37 14.41 15.45 10.31 11.35 13.38 13.41 14.45 15.49 10.35 11.39 13.42 13.45 14.49 15.53 10.39 11.43 13.46 13.49 14.53 15.57 10.43 11.47 13.5 13.53 14.57 15.61 10.47 11.51 13.54 13.57 14.61 15.65 10.51 11.55 13.58 13.61 14.65 15.69 10.55 11.59 13.62 13.65 14.69 15.73 10.59 11.63 13.66 13.69 14.73 15.77 10.63 11.67 13.7 13.73 14.77 15.81 10.67 11.71 13.74 13.77 14.81 15.85 10.71 11.75 13.78 13.81 14.85 15.89 10.75 11.79 13.82 13.85 14.89 15.93 10.79 11.83 13.86 13.89 14.93 15.97 10.83 11.87 13.9 13.93 14.97 16.01 10.87 11.91 13.94 13.97 15.01 16.05 10.91 11.95 13.98 14.01 15.05 16.09 10.95 11.99 14.02 14.05 15.09 16.13 10.99 12.03 14.06 14.09 15.13 16.17 11.03 12.07 14.1 14.13 15.17 16.21 11.07 12.11 14.14 14.17 15.21 16.25 11.11 12.15 14.18 14.21 15.25 16.29 11.15 12.19 14.22 14.25 15.29 16.33 11.19 12.23 14.26 14.29 15.33 16.37 11.23 12.27 14.3 14.33 15.37 16.41 11.27 12.31 14.34 14.37 15.41 16.45 11.31 12.35 14.38 14.41 15.45 16.49 11.35 12.39 14.42 14.45 15.49 16.53 11.39 12.43 14.46 14.49 15.53 16.57 11.43 12.47 14.5 14.53 15.57 16.61 11.47 12.51 14.54 14.57 15.61 16.65 11.51 12.55 14.58 14.61 15.65 16.69 11.55 12.59 14.62 14.65 15.69 16.73 11.59 12.63 14.66 14.69 15.73 16.77 11.63 12.67 14.7 14.73 15.77 16.81 11.67 12.71 14.74 14.77 15.81 16.85 11.71 12.75 14.78 14.81 15.85 16.89 11.75 12.79 14.82 14.85 15.89 16.93 11.79 12.83 14.86 14.89 15.93 16.97 11.83 12.87 14.9 14.93 15.97 17.01 11.87 12.91 14.94 14.97 16.01 17.05 11.91 12.95 14.98 15.01 16.05 17.09 11.95 12.99 15.02 15.05 16.09 17.13 11.99 13.03 15.06 15.09 16.13 17.17 12.03 13.07 15.1 15.13 16.17 17.21 12.07 13.11 15.14 15.17 16.21 17.25 12.11 13.15 15.18 15.21 16.25 17.29 12.15 13.19 15.22 15.25 16.29 17.33 12.19 13.23 15.26 15.29 16.33 17.37 12.23 13.27 15.3 15.33 16.37 17.41 12.27 13.31 15.34 15.37 16.41 17.45 12.31 13.35 15.38 15.41 16.45 17.49 12.35 13.39 15.42 15.45 16.49 17.53 12.39 13.43 15.46 15.49 16.53 17.57 12.43 13.47 15.5 15.53 16.57 17.61 12.47 13.51 15.54 15.57 16.61 17.65 12.51 13.55 15.58 15.61 16.65 17.69 12.55 13.59 15.62 15.65 16.69 17.73 12.59 13.63 15.66 15.69 16.73 17.77 12.63 13.67 15.7 15.73 16.77 17.81 12.67 13.71 15.74 15.77 16.81 17.85 12.71 13.75 15.78 15.81 16.85 17.89 12.75 13.79 15.82 15.85 16.89 17.93 12.79 13.83 15.86 15.89 16.93 17.97 12.83 13.87 15.9 15.93 16.97 18.01 12.87 13.91 15.94 15.97 17.01 18.05 12.91 13.95 15.98 16.01 17.05 18.09 12.95 13.99 16.02 16.05 17.09 18.13 12.99 14.03 16.06 16.09 17.13 18.17 13.03 14.07 16.1 16.13 17.17 18.21 13.07 14.11 16.14 16.17 17.21 18.25 13.11 14.15 16.18 16.21 17.25 18.29 13.15 14.19 16.22 16.25 17.29 18.33 13.19 14.23 16.26 16.29 17.33 18.37 13.23 14.27 16.3 16.33 17.37 18.41 13.27 14.31 16.34 16.37 17.41 18.45 13.31 14.35 16.38 16.41 17.45 18.49 13.35 14.39 16.42 16.45 17.49 18.53 13.39 14.43 16.46 16.49 17.53 18.57 13.43 14.47 16.5 16.53 17.57 18.61 13.47 14.51 16.54 16.57 17.61 18.65 13.51 14.55 16.58 16.61 17.65 18.69 13.55 14.59 16.62 16.65 17.69 18.73 13.59 14.63 16.66 </p>



Appendix B: Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 481.012500 MHz Ref 40.94 dBm Occupied Bandwidth 7.042 kHz Transmit Freq Error 286 Hz x dB Bandwidth 9.115 kHz</p> <p>Total Power 43.5 dBm OBW Power 99.00 % x dB 286 Hz -26.00 dB</p> <p>Frequency Center Freq 481.012500 MHz CF Step 5.000 kHz Auto Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 511.987500 MHz Ref 41.01 dBm Occupied Bandwidth 7.405 kHz Transmit Freq Error 282 Hz x dB Bandwidth 9.193 kHz</p> <p>Total Power 43.5 dBm OBW Power 99.00 % x dB 282 Hz -26.00 dB</p> <p>Frequency Center Freq 511.987500 MHz CF Step 5.000 kHz Auto Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 512.012500 MHz Ref 40.99 dBm Occupied Bandwidth 7.414 kHz Transmit Freq Error 272 Hz x dB Bandwidth 9.170 kHz</p> <p>Total Power 43.6 dBm OBW Power 99.00 % x dB 272 Hz -26.00 dB</p> <p>Frequency Center Freq 512.012500 MHz CF Step 5.000 kHz Auto Freq Offset 0 Hz</p>



Appendix B: Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 519.987500 MHz Ref 40.85 dBm 10 dB/div Log 10.9 10.8 10.7 10.6 10.5 10.4 10.3 10.2 10.1 10.0 9.9 9.8 9.7 9.6 9.5 9.4 9.3 9.2 9.1 9.0 8.9 8.8 8.7 8.6 8.5 8.4 8.3 8.2 8.1 8.0 7.9 7.8 7.7 7.6 7.5 7.4 7.3 7.2 7.1 7.0 6.9 6.8 6.7 6.6 6.5 6.4 6.3 6.2 6.1 6.0 5.9 5.8 5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0 3.9 3.8 3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0 2.9 2.8 2.7 2.6 2.5 2.4 2.3 2.2 2.1 2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0 -0.1 -0.2 -0.3 -0.4 -0.5 -0.6 -0.7 -0.8 -0.9 -1.0 -1.1 -1.2 -1.3 -1.4 -1.5 -1.6 -1.7 -1.8 -1.9 -2.0 -2.1 -2.2 -2.3 -2.4 -2.5 -2.6 -2.7 -2.8 -2.9 -3.0 -3.1 -3.2 -3.3 -3.4 -3.5 -3.6 -3.7 -3.8 -3.9 -4.0 -4.1 -4.2 -4.3 -4.4 -4.5 -4.6 -4.7 -4.8 -4.9 -5.0 -5.1 -5.2 -5.3 -5.4 -5.5 -5.6 -5.7 -5.8 -5.9 -6.0 -6.1 -6.2 -6.3 -6.4 -6.5 -6.6 -6.7 -6.8 -6.9 -7.0 -7.1 -7.2 -7.3 -7.4 -7.5 -7.6 -7.7 -7.8 -7.9 -8.0 -8.1 -8.2 -8.3 -8.4 -8.5 -8.6 -8.7 -8.8 -8.9 -9.0 -9.1 -9.2 -9.3 -9.4 -9.5 -9.6 -9.7 -9.8 -9.9 -10.0 -10.1 -10.2 -10.3 -10.4 -10.5 -10.6 -10.7 -10.8 -10.9 -11.0 -11.1 -11.2 -11.3 -11.4 -11.5 -11.6 -11.7 -11.8 -11.9 -12.0 -12.1 -12.2 -12.3 -12.4 -12.5 -12.6 -12.7 -12.8 -12.9 -13.0 -13.1 -13.2 -13.3 -13.4 -13.5 -13.6 -13.7 -13.8 -13.9 -14.0 -14.1 -14.2 -14.3 -14.4 -14.5 -14.6 -14.7 -14.8 -14.9 -15.0 -15.1 -15.2 -15.3 -15.4 -15.5 -15.6 -15.7 -15.8 -15.9 -16.0 -16.1 -16.2 -16.3 -16.4 -16.5 -16.6 -16.7 -16.8 -16.9 -17.0 -17.1 -17.2 -17.3 -17.4 -17.5 -17.6 -17.7 -17.8 -17.9 -18.0 -18.1 -18.2 -18.3 -18.4 -18.5 -18.6 -18.7 -18.8 -18.9 -19.0 -19.1 -19.2 -19.3 -19.4 -19.5 -19.6 -19.7 -19.8 -19.9 -20.0 -20.1 -20.2 -20.3 -20.4 -20.5 -20.6 -20.7 -20.8 -20.9 -21.0 -21.1 -21.2 -21.3 -21.4 -21.5 -21.6 -21.7 -21.8 -21.9 -22.0 -22.1 -22.2 -22.3 -22.4 -22.5 -22.6 -22.7 -22.8 -22.9 -23.0 -23.1 -23.2 -23.3 -23.4 -23.5 -23.6 -23.7 -23.8 -23.9 -24.0 -24.1 -24.2 -24.3 -24.4 -24.5 -24.6 -24.7 -24.8 -24.9 -25.0 -25.1 -25.2 -25.3 -25.4 -25.5 -25.6 -25.7 -25.8 -25.9 -26.0 -26.1 -26.2 -26.3 -26.4 -26.5 -26.6 -26.7 -26.8 -26.9 -27.0 -27.1 -27.2 -27.3 -27.4 -27.5 -27.6 -27.7 -27.8 -27.9 -28.0 -28.1 -28.2 -28.3 -28.4 -28.5 -28.6 -28.7 -28.8 -28.9 -29.0 -29.1 -29.2 -29.3 -29.4 -29.5 -29.6 -29.7 -29.8 -29.9 -30.0 -30.1 -30.2 -30.3 -30.4 -30.5 -30.6 -30.7 -30.8 -30.9 -31.0 -31.1 -31.2 -31.3 -31.4 -31.5 -31.6 -31.7 -31.8 -31.9 -32.0 -32.1 -32.2 -32.3 -32.4 -32.5 -32.6 -32.7 -32.8 -32.9 -33.0 -33.1 -33.2 -33.3 -33.4 -33.5 -33.6 -33.7 -33.8 -33.9 -34.0 -34.1 -34.2 -34.3 -34.4 -34.5 -34.6 -34.7 -34.8 -34.9 -35.0 -35.1 -35.2 -35.3 -35.4 -35.5 -35.6 -35.7 -35.8 -35.9 -36.0 -36.1 -36.2 -36.3 -36.4 -36.5 -36.6 -36.7 -36.8 -36.9 -37.0 -37.1 -37.2 -37.3 -37.4 -37.5 -37.6 -37.7 -37.8 -37.9 -38.0 -38.1 -38.2 -38.3 -38.4 -38.5 -38.6 -38.7 -38.8 -38.9 -39.0 -39.1 -39.2 -39.3 -39.4 -39.5 -39.6 -39.7 -39.8 -39.9 -40.0 -40.1 -40.2 -40.3 -40.4 -40.5 -40.6 -40.7 -40.8 -40.9 -41.0 -41.1 -41.2 -41.3 -41.4 -41.5 -41.6 -41.7 -41.8 -41.9 -42.0 -42.1 -42.2 -42.3 -42.4 -42.5 -42.6 -42.7 -42.8 -42.9 -43.0 -43.1 -43.2 -43.3 -43.4 -43.5 -43.6 -43.7 -43.8 -43.9 -44.0 -44.1 -44.2 -44.3 -44.4 -44.5 -44.6 -44.7 -44.8 -44.9 -45.0 -45.1 -45.2 -45.3 -45.4 -45.5 -45.6 -45.7 -45.8 -45.9 -46.0 -46.1 -46.2 -46.3 -46.4 -46.5 -46.6 -46.7 -46.8 -46.9 -47.0 -47.1 -47.2 -47.3 -47.4 -47.5 -47.6 -47.7 -47.8 -47.9 -48.0 -48.1 -48.2 -48.3 -48.4 -48.5 -48.6 -48.7 -48.8 -48.9 -49.0 -49.1 -49.2 -49.3 -49.4 -49.5 -49.6 -49.7 -49.8 -49.9 -50.0 -50.1 -50.2 -50.3 -50.4 -50.5 -50.6 -50.7 -50.8 -50.9 -51.0 -51.1 -51.2 -51.3 -51.4 -51.5 -51.6 -51.7 -51.8 -51.9 -52.0 -52.1 -52.2 -52.3 -52.4 -52.5 -52.6 -52.7 -52.8 -52.9 -53.0 -53.1 -53.2 -53.3 -53.4 -53.5 -53.6 -53.7 -53.8 -53.9 -54.0 -54.1 -54.2 -54.3 -54.4 -54.5 -54.6 -54.7 -54.8 -54.9 -55.0 -55.1 -55.2 -55.3 -55.4 -55.5 -55.6 -55.7 -55.8 -55.9 -56.0 -56.1 -56.2 -56.3 -56.4 -56.5 -56.6 -56.7 -56.8 -56.9 -57.0 -57.1 -57.2 -57.3 -57.4 -57.5 -57.6 -57.7 -57.8 -57.9 -58.0 -58.1 -58.2 -58.3 -58.4 -58.5 -58.6 -58.7 -58.8 -58.9 -59.0 -59.1 -59.2 -59.3 -59.4 -59.5 -59.6 -59.7 -59.8 -59.9 -60.0 -60.1 -60.2 -60.3 -60.4 -60.5 -60.6 -60.7 -60.8 -60.9 -61.0 -61.1 -61.2 -61.3 -61.4 -61.5 -61.6 -61.7 -61.8 -61.9 -62.0 -62.1 -62.2 -62.3 -62.4 -62.5 -62.6 -62.7 -62.8 -62.9 -63.0 -63.1 -63.2 -63.3 -63.4 -63.5 -63.6 -63.7 -63.8 -63.9 -64.0 -64.1 -64.2 -64.3 -64.4 -64.5 -64.6 -64.7 -64.8 -64.9 -65.0 -65.1 -65.2 -65.3 -65.4 -65.5 -65.6 -65.7 -65.8 -65.9 -66.0 -66.1 -66.2 -66.3 -66.4 -66.5 -66.6 -66.7 -66.8 -66.9 -67.0 -67.1 -67.2 -67.3 -67.4 -67.5 -67.6 -67.7 -67.8 -67.9 -68.0 -68.1 -68.2 -68.3 -68.4 -68.5 -68.6 -68.7 -68.8 -68.9 -69.0 -69.1 -69.2 -69.3 -69.4 -69.5 -69.6 -69.7 -69.8 -69.9 -70.0 -70.1 -70.2 -70.3 -70.4 -70.5 -70.6 -70.7 -70.8 -70.9 -71.0 -71.1 -71.2 -71.3 -71.4 -71.5 -71.6 -71.7 -71.8 -71.9 -72.0 -72.1 -72.2 -72.3 -72.4 -72.5 -72.6 -72.7 -72.8 -72.9 -73.0 -73.1 -73.2 -73.3 -73.4 -73.5 -73.6 -73.7 -73.8 -73.9 -74.0 -74.1 -74.2 -74.3 -74.4 -74.5 -74.6 -74.7 -74.8 -74.9 -75.0 -75.1 -75.2 -75.3 -75.4 -75.5 -75.6 -75.7 -75.8 -75.9 -76.0 -76.1 -76.2 -76.3 -76.4 -76.5 -76.6 -76.7 -76.8 -76.9 -77.0 -77.1 -77.2 -77.3 -77.4 -77.5 -77.6 -77.7 -77.8 -77.9 -78.0 -78.1 -78.2 -78.3 -78.4 -78.5 -78.6 -78.7 -78.8 -78.9 -79.0 -79.1 -79.2 -79.3 -79.4 -79.5 -79.6 -79.7 -79.8 -79.9 -80.0 -80.1 -80.2 -80.3 -80.4 -80.5 -80.6 -80.7 -80.8 -80.9 -81.0 -81.1 -81.2 -81.3 -81.4 -81.5 -81.6 -81.7 -81.8 -81.9 -82.0 -82.1 -82.2 -82.3 -82.4 -82.5 -82.6 -82.7 -82.8 -82.9 -83.0 -83.1 -83.2 -83.3 -83.4 -83.5 -83.6 -83.7 -83.8 -83.9 -84.0 -84.1 -84.2 -84.3 -84.4 -84.5 -84.6 -84.7 -84.8 -84.9 -85.0 -85.1 -85.2 -85.3 -85.4 -85.5 -85.6 -85.7 -85.8 -85.9 -86.0 -86.1 -86.2 -86.3 -86.4 -86.5 -86.6 -86.7 -86.8 -86.9 -87.0 -87.1 -87.2 -87.3 -87.4 -87.5 -87.6 -87.7 -87.8 -87.9 -88.0 -88.1 -88.2 -88.3 -88.4 -88.5 -88.6 -88.7 -88.8 -88.9 -89.0 -89.1 -89.2 -89.3 -89.4 -89.5 -89.6 -89.7 -89.8 -89.9 -90.0 -90.1 -90.2 -90.3 -90.4 -90.5 -90.6 -90.7 -90.8 -90.9 -91.0 -91.1 -91.2 -91.3 -91.4 -91.5 -91.6 -91.7 -91.8 -91.9 -92.0 -92.1 -92.2 -92.3 -92.4 -92.5 -92.6 -92.7 -92.8 -92.9 -93.0 -93.1 -93.2 -93.3 -93.4 -93.5 -93.6 -93.7 -93.8 -93.9 -94.0 -94.1 -94.2 -94.3 -94.4 -94.5 -94.6 -94.7 -94.8 -94.9 -95.0 -95.1 -95.2 -95.3 -95.4 -95.5 -95.6 -95.7 -95.8 -95.9 -96.0 -96.1 -96.2 -96.3 -96.4 -96.5 -96.6 -96.7 -96.8 -96.9 -97.0 -97.1 -97.2 -97.3 -97.4 -97.5 -97.6 -97.7 -97.8 -97.9 -98.0 -98.1 -98.2 -98.3 -98.4 -98.5 -98.6 -98.7 -98.8 -98.9 -99.0 -99.1 -99.2 -99.3 -99.4 -99.5 -99.6 -99.7 -99.8 -99.9 -100.0 -100.1 -100.2 -100.3 -100.4 -100.5 -100.6 -100.7 -100.8 -100.9 -100.10 -100.11 -100.12 -100.13 -100.14 -100.15 -100.16 -100.17 -100.18 -100.19 -100.20 -100.21 -100.22 -100.23 -100.24 -100.25 -100.26 -100.27 -100.28 -100.29 -100.30 -100.31 -100.32 -100.33 -100.34 -100.35 -100.36 -100.37 -100.38 -100.39 -100.40 -100.41 -100.42 -100.43 -100.44 -100.45 -100.46 -100.47 -100.48 -100.49 -100.50 -100.51 -100.52 -100.53 -100.54 -100.55 -100.56 -100.57 -100.58 -100.59 -100.60 -100.61 -100.62 -100.63 -100.64 -100.65 -100.66 -100.67 -100.68 -100.69 -100.70 -100.71 -100.72 -100.73 -100.74 -100.75 -100.76 -100.77 -100.78 -100.79 -100.80 -100.81 -100.82 -100.83 -100.84 -100.85 -100.86 -100.87 -100.88 -100.89 -100.90 -100.91 -100.92 -100.93 -100.94 -100.95 -100.96 -100.97 -100.98 -100.99 -100.100 -100.101 -100.102 -100.103 -100.104 -100.105 -100.106 -100.107 -100.108 -100.109 -100.110 -100.111 -100.112 -100.113 -100.114 -100.115 -100.116 -100.117 -100.118 -100.119 -100.120 -100.121 -100.122 -100.123 -100.124 -100.125 -100.126 -100.127 -100.128 -100.129 -100.130 -100.131 -100.132 -100.133 -100.134 -100.135 -100.136 -100.137 -100.138 -100.139 -100.140 -100.141 -100.142 -100.143 -100.144 -100.145 -100.146 -100.147 -100.148 -100.149 -100.150 -100.151 -100.152 -100.153 -100.154 -100.155 -100.156 -100.157 -100.158 -100.159 -100.160 -100.161 -100.162 -100.163 -100.164 -100.165 -100.166 -100.167 -100.168 -100.169 -100.170 -100.171 -100.172 -100.173 -100.174 -100.175 -100.176 -100.177 -100.178 -100.179 -100.180 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-100.292 -100.293 -100.294 -100.295 -100.296 -100.297 -100.298 -100.299 -100.300 -100.301 -100.302 -100.303 -100.304 -100.305 -100.306 -100.307 -100.308 -100.309 -100.310 -100.311 -100.312 -100.313 -100.314 -100.315 -100.316 -100.317 -100.318 -100.319 -100.320 -100.321 -100.322 -100.323 -100.324 -100.325 -100.326 -100.327 -100.328 -100.329 -100.330 -100.331 -100.332 -100.333<br</p>



Appendix B: Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 511.987500 MHz</p> <p>Ref 50.80 dBm</p> <p>Occupied Bandwidth 9.970 kHz</p> <p>Total Power 46.7 dBm</p> <p>Transmit Freq Error 303 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 511.987500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 512 MHz</p> <p>Center Freq 512.012500 MHz</p> <p>Ref 50.75 dBm</p> <p>Occupied Bandwidth 9.977 kHz</p> <p>Total Power 46.7 dBm</p> <p>Transmit Freq Error 296 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 519.987500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 520 MHz</p> <p>Center Freq 519.987500 MHz</p> <p>Ref 50.29 dBm</p> <p>Occupied Bandwidth 9.982 kHz</p> <p>Total Power 46.8 dBm</p> <p>Transmit Freq Error 317 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 519.987500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 520 MHz</p>
TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 511.987500 MHz</p> <p>Ref 50.80 dBm</p> <p>Occupied Bandwidth 9.970 kHz</p> <p>Total Power 46.7 dBm</p> <p>Transmit Freq Error 303 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 511.987500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 512 MHz</p> <p>Center Freq 512.012500 MHz</p> <p>Ref 50.75 dBm</p> <p>Occupied Bandwidth 9.977 kHz</p> <p>Total Power 46.7 dBm</p> <p>Transmit Freq Error 296 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 512.012500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 512 MHz</p> <p>Center Freq 519.987500 MHz</p> <p>Ref 50.29 dBm</p> <p>Occupied Bandwidth 9.982 kHz</p> <p>Total Power 46.8 dBm</p> <p>Transmit Freq Error 317 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 519.987500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 520 MHz</p>
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 511.987500 MHz</p> <p>Ref 50.80 dBm</p> <p>Occupied Bandwidth 9.970 kHz</p> <p>Total Power 46.7 dBm</p> <p>Transmit Freq Error 303 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 511.987500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 512 MHz</p> <p>Center Freq 512.012500 MHz</p> <p>Ref 50.75 dBm</p> <p>Occupied Bandwidth 9.977 kHz</p> <p>Total Power 46.7 dBm</p> <p>Transmit Freq Error 296 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 512.012500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 512 MHz</p> <p>Center Freq 519.987500 MHz</p> <p>Ref 50.29 dBm</p> <p>Occupied Bandwidth 9.982 kHz</p> <p>Total Power 46.8 dBm</p> <p>Transmit Freq Error 317 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz</p> <p>x dB -26.00 dB</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center Freq 519.987500 MHz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Center 520 MHz</p>

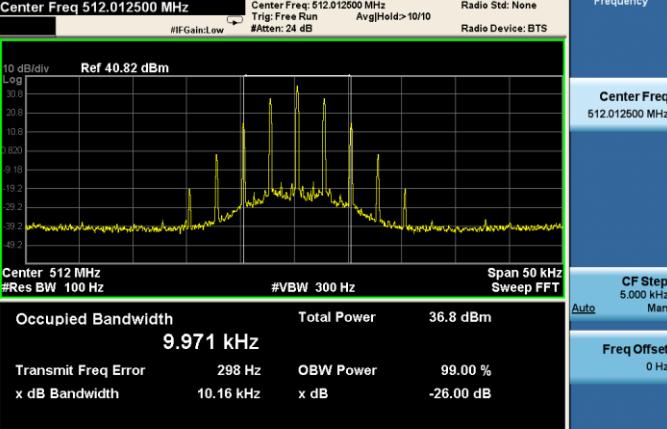
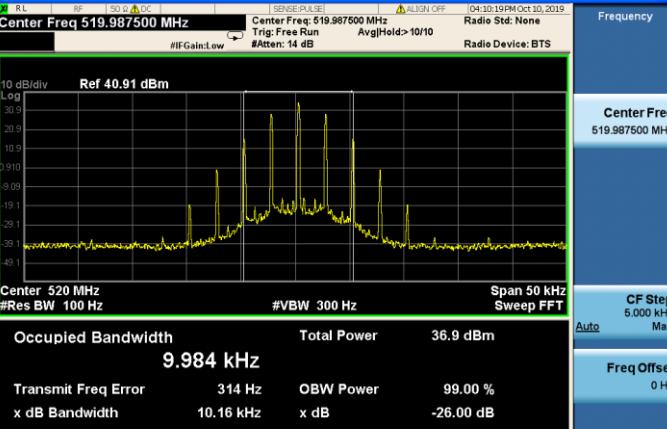


Appendix B: Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 450.012500 MHz</p> <p>Ref 40.99 dBm</p> <p>Log</p> <p>10 dB/div</p> <p>Center 450 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.952 kHz Total Power 37.0 dBm</p> <p>Transmit Freq Error 267 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.15 kHz x dB -26.00 dB</p> <p>CF Step 5.000 kHz Auto</p> <p>Freq Offset 0 Hz</p> <p>Status DC Coupled</p>
TX-ANL	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 481.012500 MHz</p> <p>Ref 41.02 dBm</p> <p>Log</p> <p>10 dB/div</p> <p>Center 481 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.967 kHz Total Power 37.0 dBm</p> <p>Transmit Freq Error 286 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>CF Step 5.000 kHz Auto</p> <p>Freq Offset 0 Hz</p> <p>Status DC Coupled</p>
TX-ANL	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 511.987500 MHz</p> <p>Ref 40.98 dBm</p> <p>Log</p> <p>10 dB/div</p> <p>Center 512 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.970 kHz Total Power 36.9 dBm</p> <p>Transmit Freq Error 300 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>CF Step 5.000 kHz Auto</p> <p>Freq Offset 0 Hz</p> <p>Status DC Coupled</p>

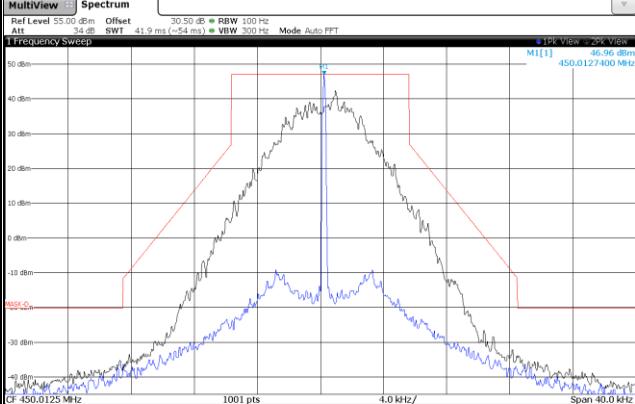
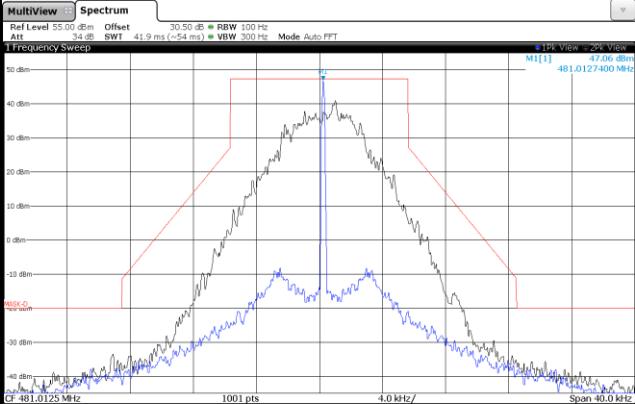
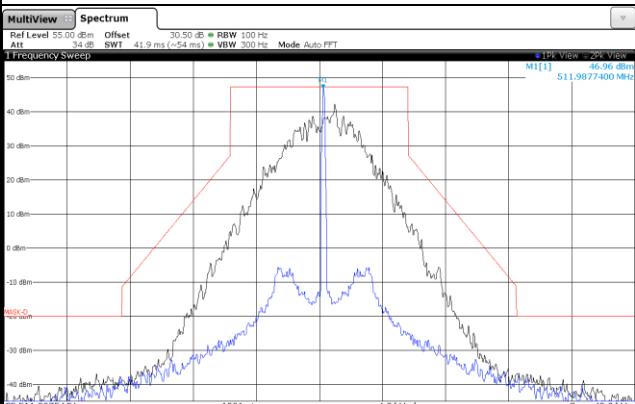


Appendix B: Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 512.012500 MHz Center Freq: 512.012500 MHz ALIGN OFF 09:47:47 AM Oct 18, 2019</p> <p>#IFGain:Low Trig: Free Run Avg Hold>10/10 Radio Std: None</p> <p>#Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.82 dBm Log</p> <p>Center 512 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth: 9.971 kHz Total Power: 36.8 dBm</p> <p>Transmit Freq Error: 298 Hz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 10.16 kHz x dB: -26.00 dB</p> <p>MSG STATUS: DC Coupled</p>
TX-ANL	FM	CH _H	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 519.987500 MHz Center Freq: 519.987500 MHz ALIGN OFF 04:10:19 PM Oct 30, 2019</p> <p>#IFGain:Low Trig: Free Run Avg Hold>10/10 Radio Std: None</p> <p>#Atten: 14 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.91 dBm Log</p> <p>Center 520 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth: 9.984 kHz Total Power: 36.9 dBm</p> <p>Transmit Freq Error: 314 Hz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 10.16 kHz x dB: -26.00 dB</p> <p>MSG STATUS: DC Coupled</p>

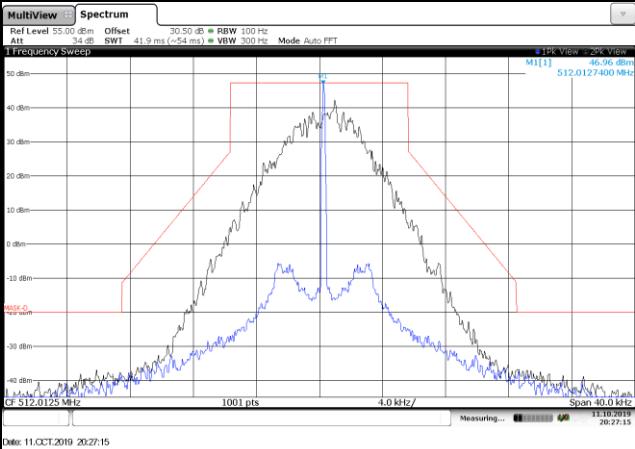
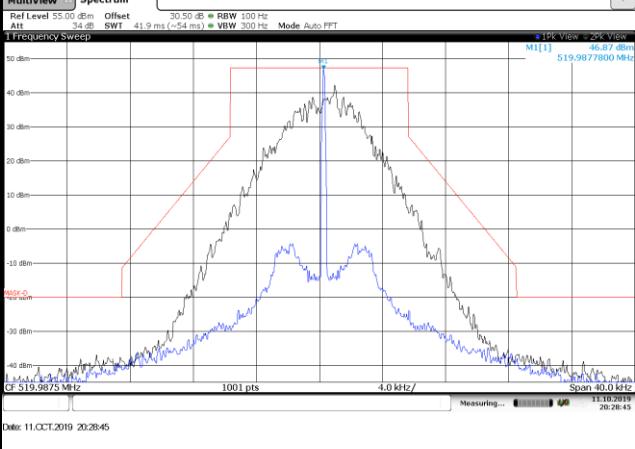
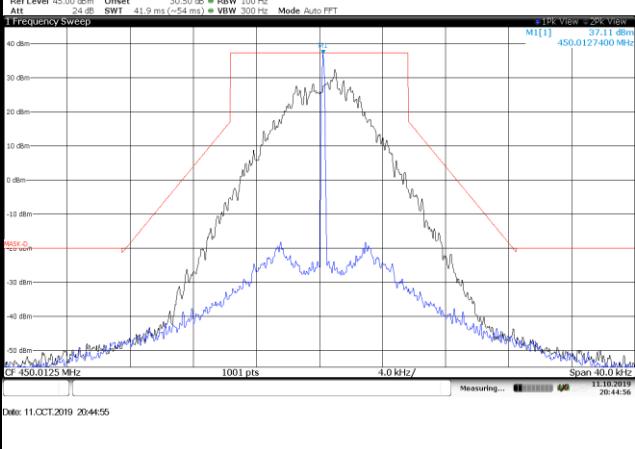


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 <p>This spectrum plot shows the emission mask (red line) and the measured signal (blue line) for channel CH_L. The x-axis represents frequency from 450.0125 MHz to 450.0127400 MHz. The y-axis represents power in dBm from -40 to 50. The plot includes a legend for 'Ref Level 55.00 dBm', 'Offset 30.50 dB', 'RBW 100 Hz', 'Att 34.0 dB', 'SWT 41.9 ms (~54 ms)', 'VBW 300 Hz', 'Mode Auto FFT', and '1 Frequency Sweep'. The measurement date is 11.OCT.2019 at 20:14:22.</p>
TX-DNH	4FSK	CH _{M1}	 <p>This spectrum plot shows the emission mask (red line) and the measured signal (blue line) for channel CH_{M1}. The x-axis represents frequency from 481.0125 MHz to 481.0127400 MHz. The y-axis represents power in dBm from -40 to 50. The plot includes a legend for 'Ref Level 55.00 dBm', 'Offset 30.50 dB', 'RBW 100 Hz', 'Att 34.0 dB', 'SWT 41.9 ms (~54 ms)', 'VBW 300 Hz', 'Mode Auto FFT', and '1 Frequency Sweep'. The measurement date is 11.OCT.2019 at 20:21:53.</p>
TX-DNH	4FSK	CH _{M2}	 <p>This spectrum plot shows the emission mask (red line) and the measured signal (blue line) for channel CH_{M2}. The x-axis represents frequency from 511.9975 MHz to 511.9977400 MHz. The y-axis represents power in dBm from -40 to 50. The plot includes a legend for 'Ref Level 55.00 dBm', 'Offset 30.50 dB', 'RBW 100 Hz', 'Att 34.0 dB', 'SWT 41.9 ms (~54 ms)', 'VBW 300 Hz', 'Mode Auto FFT', and '1 Frequency Sweep'. The measurement date is 11.OCT.2019 at 20:26:47.</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	
TX-DNH	4FSK	CH _H	
TX-DNL	4FSK	CH _L	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	
TX-DNL	4FSK	CH _{M2}	
TX-DNL	4FSK	CH _{M3}	

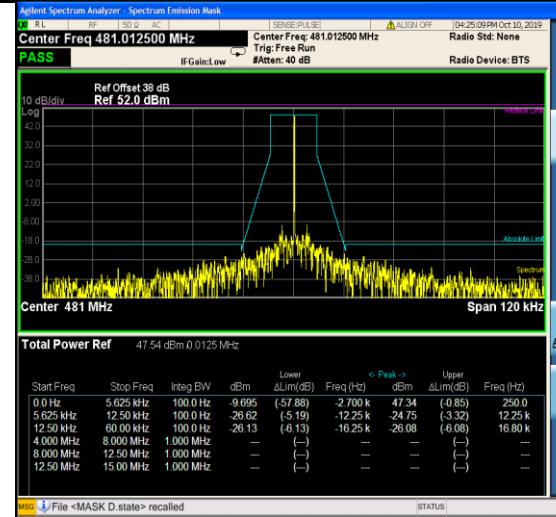
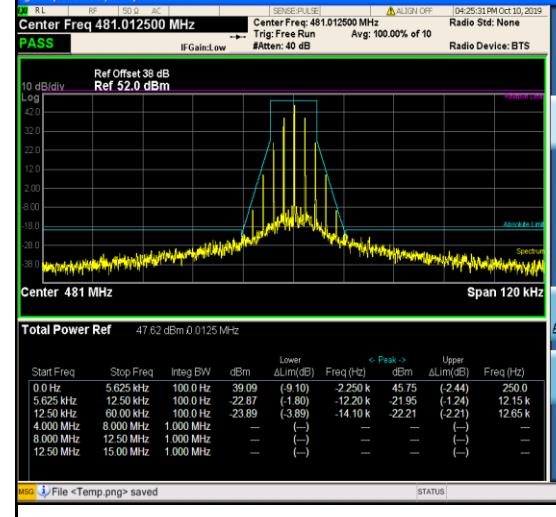
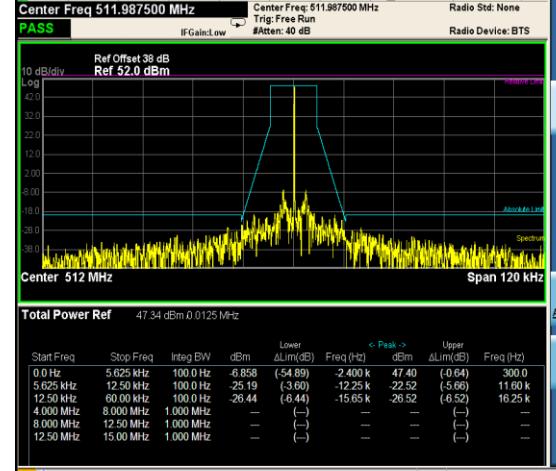


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-DNL	4FSK	CH _H																																																																	
TX-ANH	FM	CH _L	<table border="1"><caption>Total Power Ref</caption><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLIM(dB)</th><th>Freq (Hz)</th><th>< Peak -></th><th>Upper ΔLIM(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>9.744</td><td>(-58.51)</td><td>-2.500 k</td><td>46.58</td><td>(2.18)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>28.57</td><td>(8.07)</td><td>-12.20 k</td><td>29.95</td><td>(-10.19)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>27.79</td><td>(7.79)</td><td>-16.40 k</td><td>26.70</td><td>(6.70)</td><td>12.90 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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLIM(dB)	Freq (Hz)	< Peak ->	Upper ΔLIM(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	9.744	(-58.51)	-2.500 k	46.58	(2.18)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	28.57	(8.07)	-12.20 k	29.95	(-10.19)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	27.79	(7.79)	-16.40 k	26.70	(6.70)	12.90 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	—	(—)	—	—	(—)	—	<p>Frequency</p> <p>Center Freq 450.012500 MHz</p> <p>CF Step 12.000 kHz Auto</p> <p>Freq Offset 0 Hz</p>
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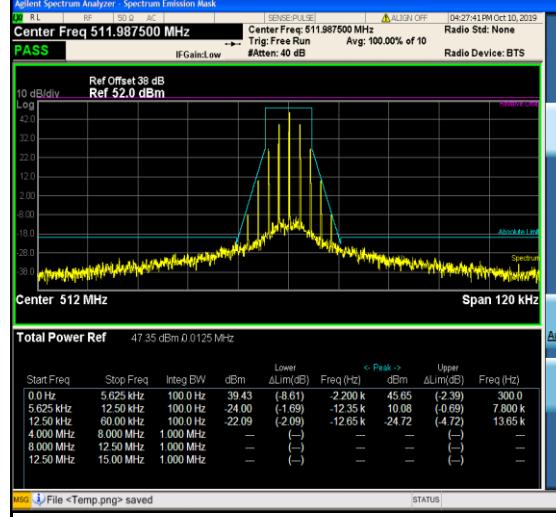
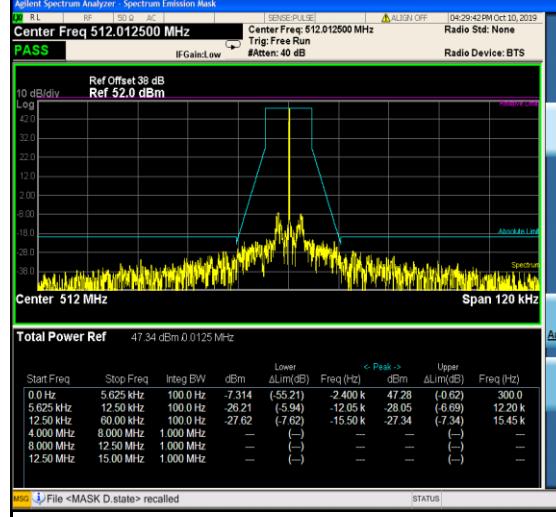
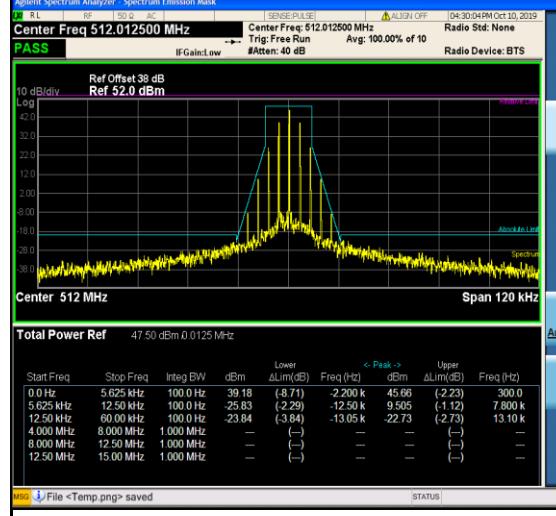


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH _{M1}		<p>Frequency Center Freq 481.012500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANH	FM	CH _{M1}		<p>Frequency Center Freq 481.012500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANH	FM	CH _{M2}		<p>Frequency Center Freq 511.987500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH _{M2}		<p>Frequency Center Freq 511.987500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANH	FM	CH _{M3}		<p>Frequency Center Freq 512.012500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANH	FM	CH _{M3}		<p>Frequency Center Freq 512.012500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>

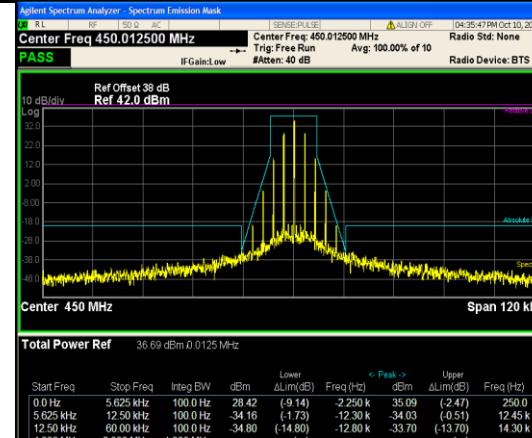
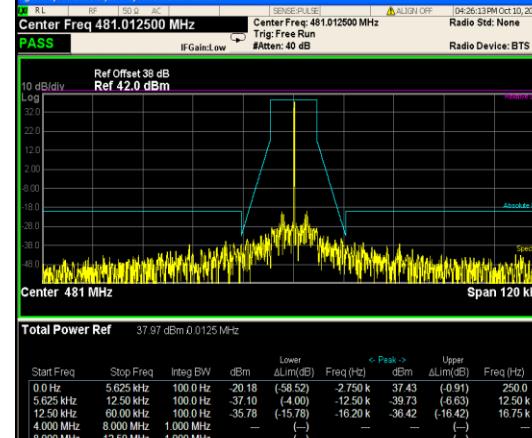
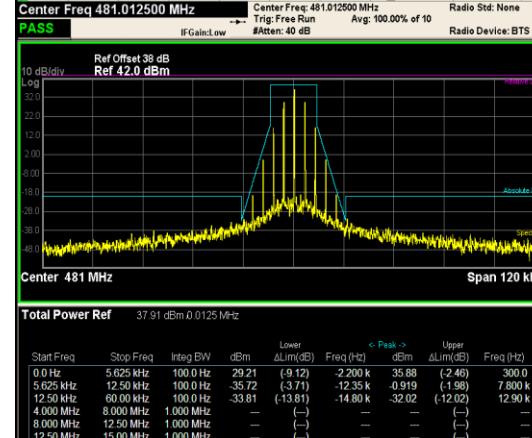


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH _H		<p>Frequency Center Freq 519.987500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANH	FM	CH _H		<p>Frequency Center Freq 519.987500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANL	FM	CH _L		<p>Frequency Center Freq 450.012500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>

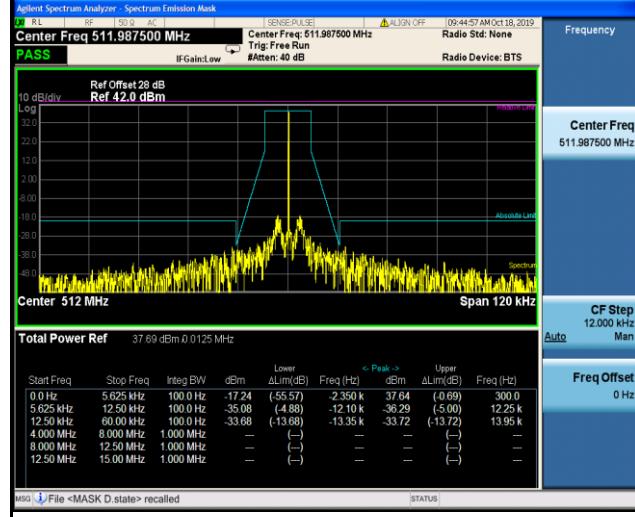
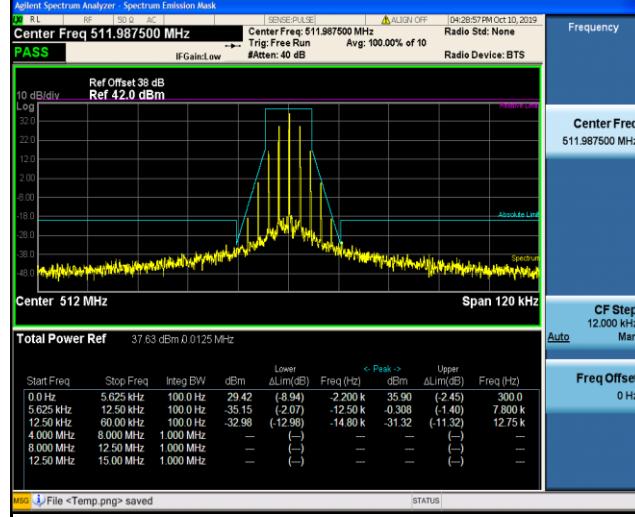
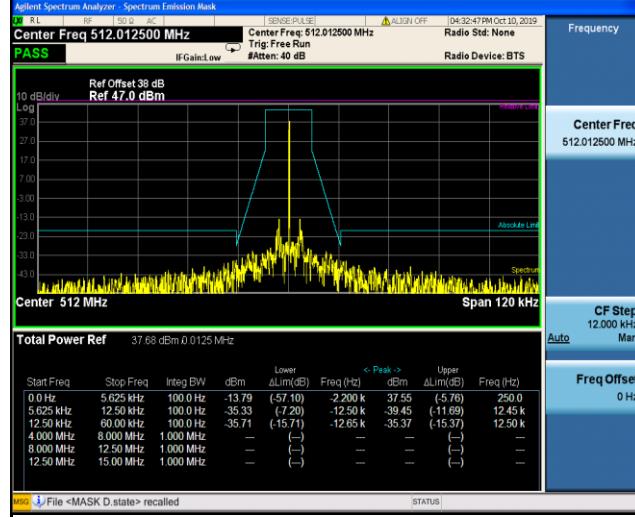


Appendix C:Emission Mask

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TX-ANL	FM	CH _L	 <table border="1"><caption>Total Power Ref</caption><tr><td>36.69 dBm</td><td>0.0125 MHz</td></tr><tr><td>Start Freq</td><td>Stop Freq</td><td>Integ BW</td><td>dBm</td><td>Lower ΔLim(dB)</td><td>Freq (Hz)</td><td>< Peak -></td><td>Upper ΔLim(dB)</td><td>Freq (Hz)</td></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.42</td><td>(-9.14)</td><td>-2.250 k</td><td>35.09</td><td>(-2.47)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>34.16</td><td>(-1.73)</td><td>-12.30 k</td><td>34.03</td><td>(-0.51)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>34.80</td><td>(-14.80)</td><td>-12.80 k</td><td>33.70</td><td>(-13.70)</td><td>14.30 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></table>	36.69 dBm	0.0125 MHz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.42	(-9.14)	-2.250 k	35.09	(-2.47)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	34.16	(-1.73)	-12.30 k	34.03	(-0.51)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	34.80	(-14.80)	-12.80 k	33.70	(-13.70)	14.30 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	—	(—)	—	—	(—)	—	Frequency Center Freq CF Step Freq Offset
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TX-ANL	FM	CH _{M1}	 <table border="1"><caption>Total Power Ref</caption><tr><td>37.97 dBm</td><td>0.0125 MHz</td></tr><tr><td>Start Freq</td><td>Stop Freq</td><td>Integ BW</td><td>dBm</td><td>Lower ΔLim(dB)</td><td>Freq (Hz)</td><td>< Peak -></td><td>Upper ΔLim(dB)</td><td>Freq (Hz)</td></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.18</td><td>(-58.52)</td><td>-2.750 k</td><td>37.43</td><td>(-0.91)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>37.10</td><td>(-4.00)</td><td>-12.50 k</td><td>39.73</td><td>(-6.63)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>35.78</td><td>(-15.78)</td><td>-16.20 k</td><td>36.42</td><td>(-16.42)</td><td>16.75 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></table>	37.97 dBm	0.0125 MHz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.18	(-58.52)	-2.750 k	37.43	(-0.91)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	37.10	(-4.00)	-12.50 k	39.73	(-6.63)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	35.78	(-15.78)	-16.20 k	36.42	(-16.42)	16.75 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	—	(—)	—	—	(—)	—	Frequency Center Freq CF Step Freq Offset
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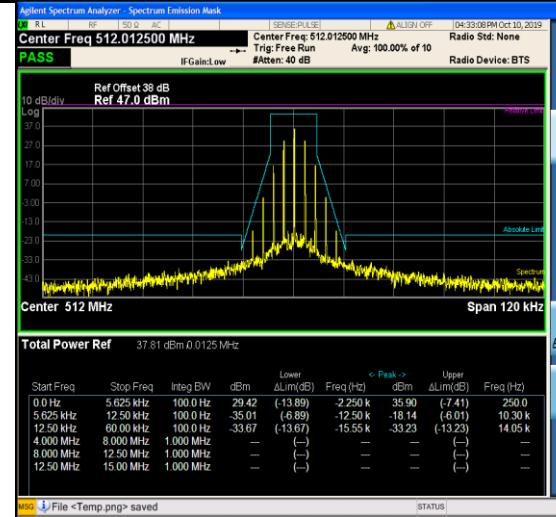
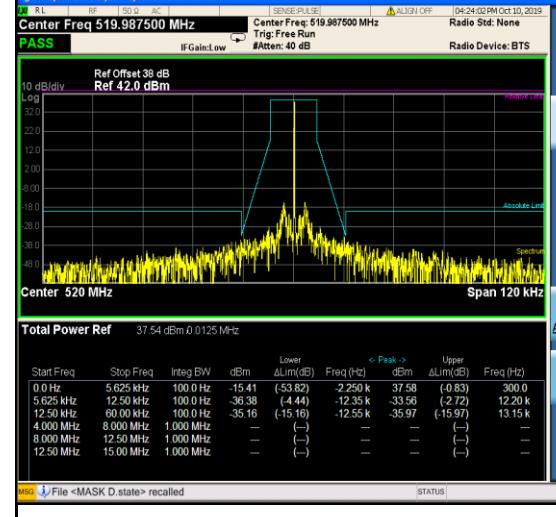
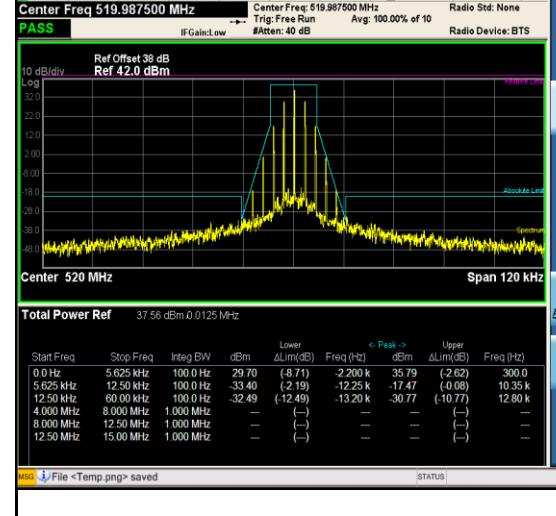


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANL	FM	CH _{M2}		
TX-ANL	FM	CH _{M2}		
TX-ANL	FM	CH _{M3}		



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANL	FM	CH _{M3}		<p>Frequency Center Freq 512.012500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANL	FM	CH _H		<p>Frequency Center Freq 519.987500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>
TX-ANL	FM	CH _H		<p>Frequency Center Freq 519.987500 MHz CF Step 12,000 kHz Auto Freq Offset 0 Hz</p>

**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	0.088	0.174	0.244	0.394	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.119	0.293	0.417	0.676	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.138	0.488	0.719	1.189	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.229	0.851	1.257	2.076	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.375	1.509	2.202	2.187	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.642	2.09	2.201	2.191	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.111	2.232	2.205	2.194	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.98	2.196	2.196	2.186	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.735	2.156	2.199	2.195	2.5	PASS