

**Appendix A:Maximum Transmitter Power**

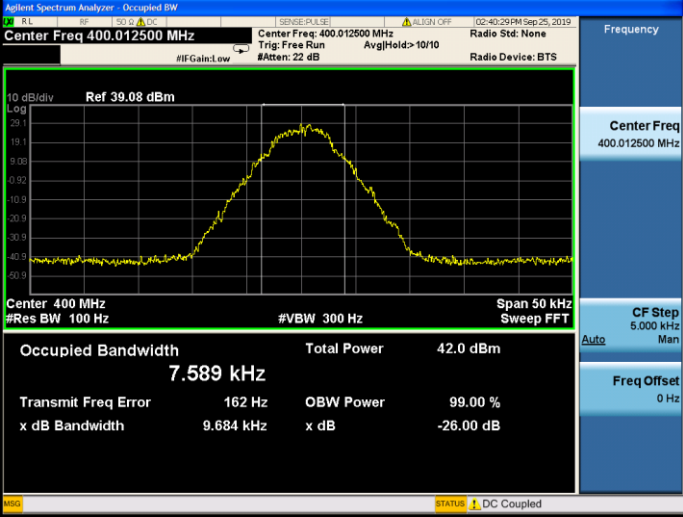
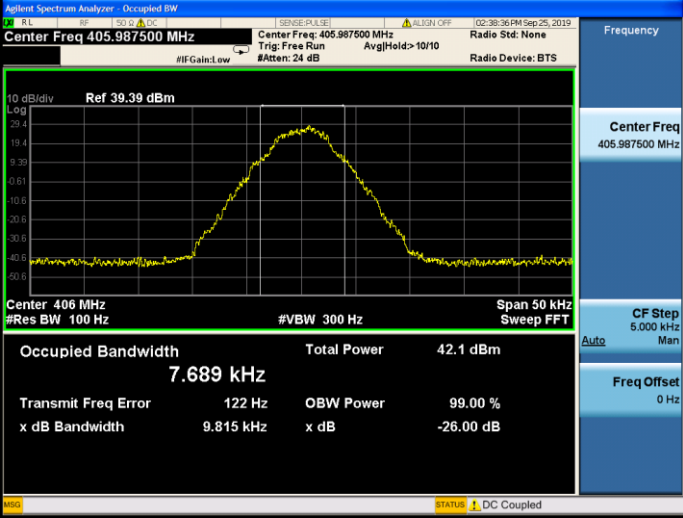
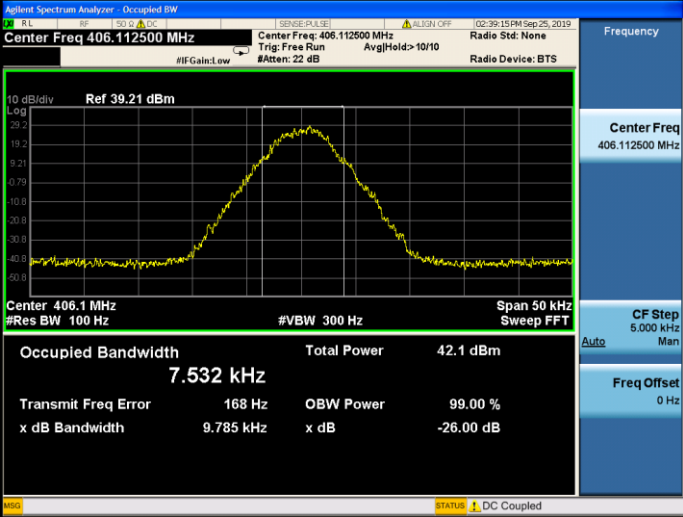
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.9	3.87	4.00	-3.2	±20	PASS
TX-DNH	4FSK	CH _{M2}	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH _{M3}	35.4	3.43	4.00	-14.2	±20	PASS
TX-DNH	4FSK	CH _H	35.4	3.47	4.00	-13.3	±20	PASS
TX-DNL	4FSK	CH _L	32.2	1.64	2.00	-17.9	±20	PASS
TX-DNL	4FSK	CH _{M1}	32.3	1.68	2.00	-15.9	±20	PASS
TX-DNL	4FSK	CH _{M2}	32.6	1.82	2.00	-9.0	±20	PASS
TX-DNL	4FSK	CH _{M3}	32.8	1.91	2.00	-4.7	±20	PASS
TX-DNL	4FSK	CH _H	32.6	1.82	2.00	-9.0	±20	PASS
TX-ANH	FM	CH _L	35.6	3.64	4.00	-9.0	±20	PASS
TX-ANH	FM	CH _{M1}	35.8	3.81	4.00	-4.7	±20	PASS
TX-ANH	FM	CH _{M2}	35.8	3.79	4.00	-5.2	±20	PASS
TX-ANH	FM	CH _{M3}	35.7	3.72	4.00	-7.1	±20	PASS
TX-ANH	FM	CH _H	35.8	3.80	4.00	-5.0	±20	PASS
TX-ANL	FM	CH _L	32.3	1.70	2.00	-15.1	±20	PASS
TX-ANL	FM	CH _{M1}	32.2	1.67	2.00	-16.7	±20	PASS
TX-ANL	FM	CH _{M2}	32.2	1.67	2.00	-16.5	±20	PASS
TX-ANL	FM	CH _{M3}	32.4	1.74	2.00	-13.1	±20	PASS
TX-ANL	FM	CH _H	32.9	1.94	2.00	-2.8	±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	7.589	9.684	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.689	9.815	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.532	9.785	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.323	8.980	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.376	9.257	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.549	9.562	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.602	9.794	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.419	9.202	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.463	8.991	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.442	9.339	≤11.25	PASS
TX-ANH	FM	CH _L	5.210	10.100	≤11.25	PASS
TX-ANH	FM	CH _{M1}	5.213	10.100	≤11.25	PASS
TX-ANH	FM	CH _{M2}	5.215	10.090	≤11.25	PASS
TX-ANH	FM	CH _{M3}	5.195	10.100	≤11.25	PASS
TX-ANH	FM	CH _H	5.228	10.110	≤11.25	PASS
TX-ANL	FM	CH _L	5.221	10.100	≤11.25	PASS
TX-ANL	FM	CH _{M1}	5.212	10.100	≤11.25	PASS
TX-ANL	FM	CH _{M2}	5.214	10.090	≤11.25	PASS
TX-ANL	FM	CH _{M3}	5.195	10.100	≤11.25	PASS
TX-ANL	FM	CH _H	5.229	10.110	≤11.25	PASS

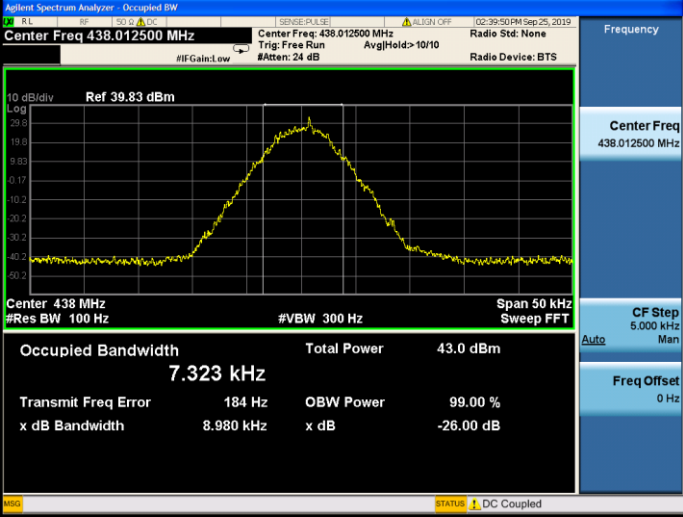
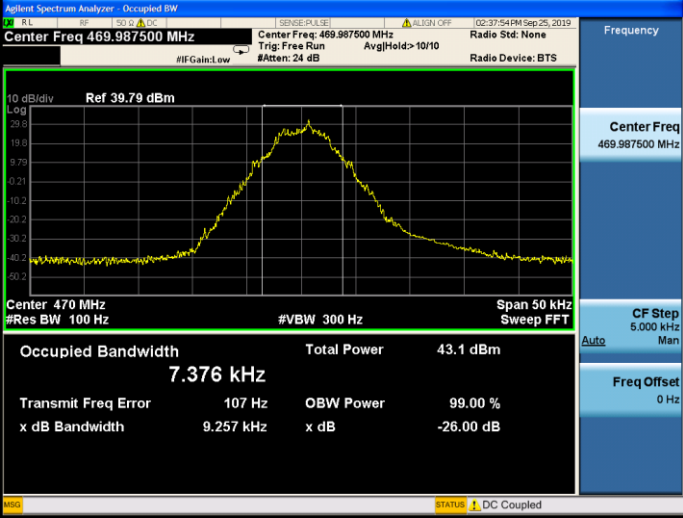
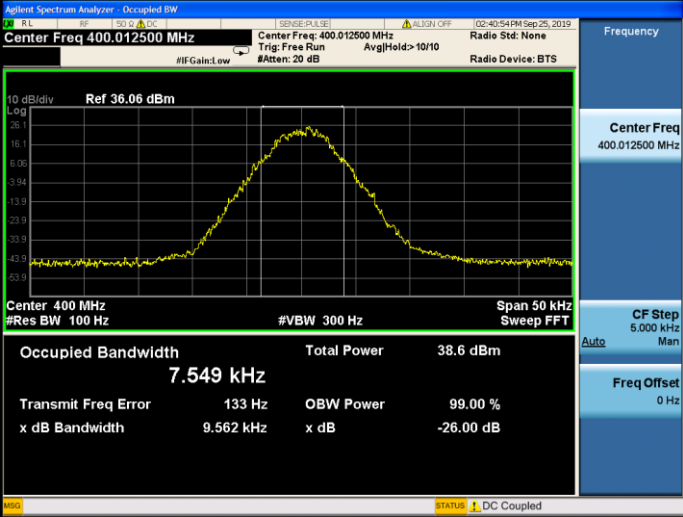


Appendix B:Occupied Bandwidth

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

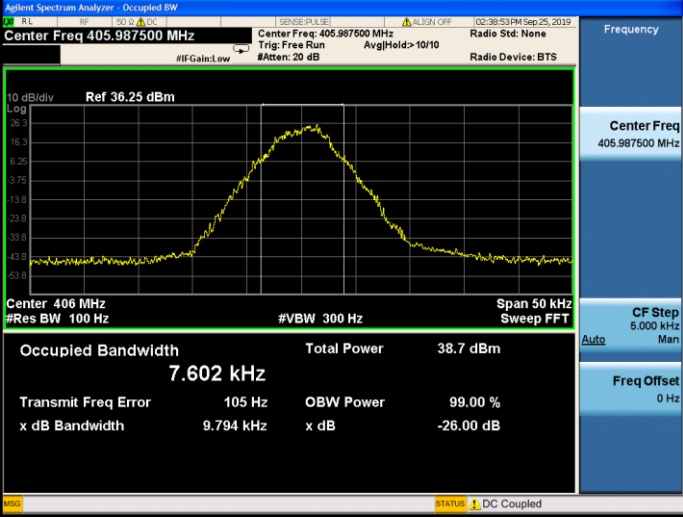
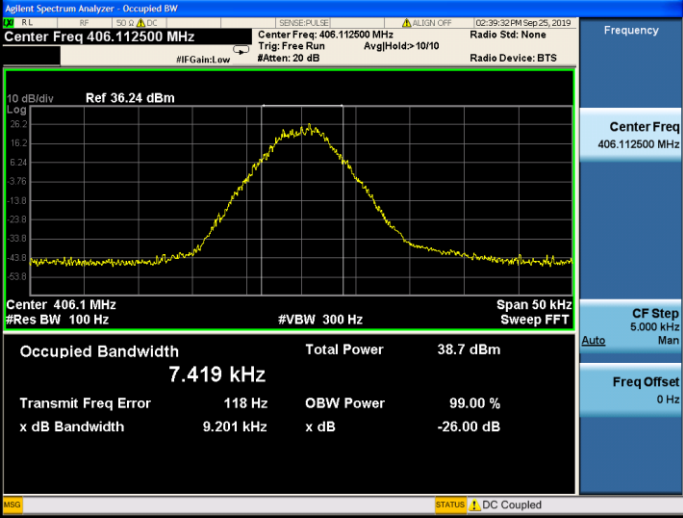
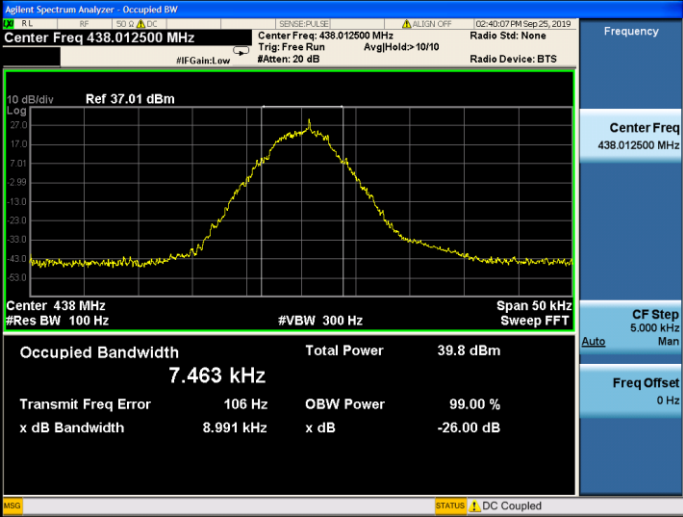


Appendix B:Occupied Bandwidth

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

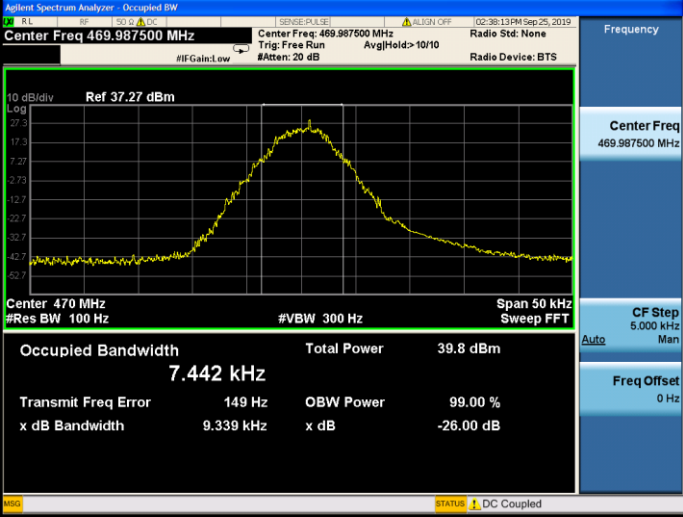
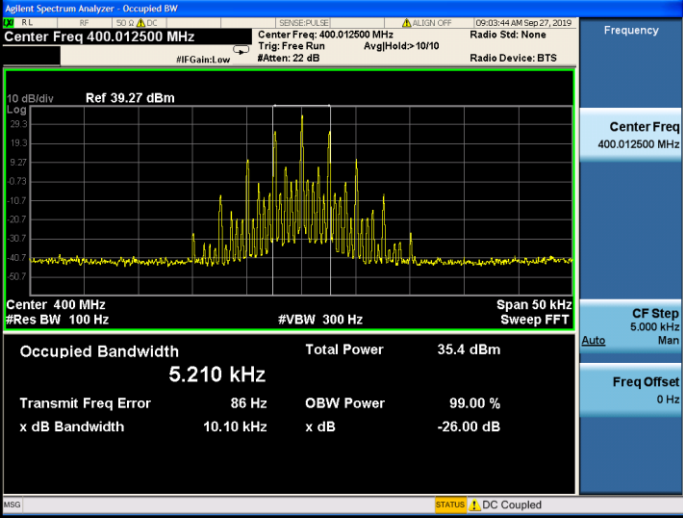
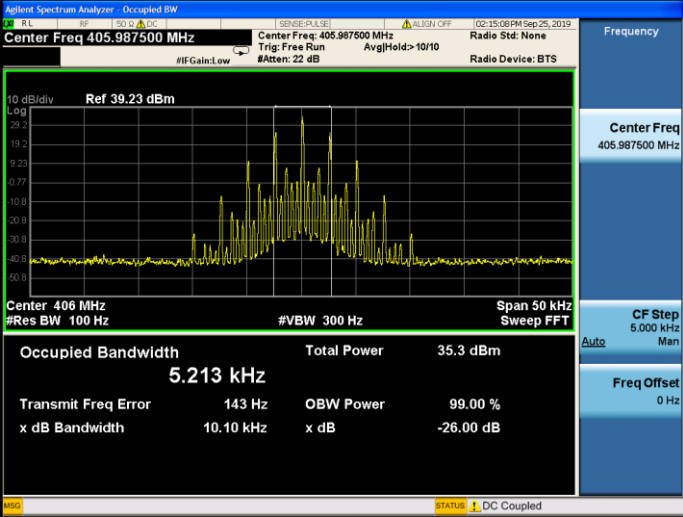


Appendix B:Occupied Bandwidth

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

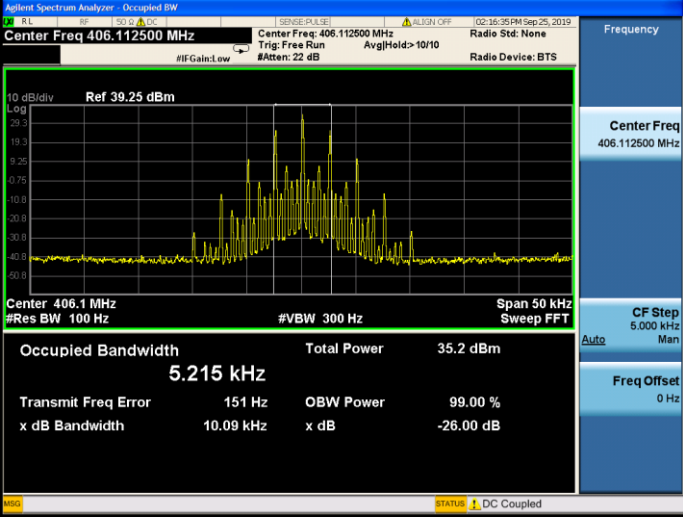
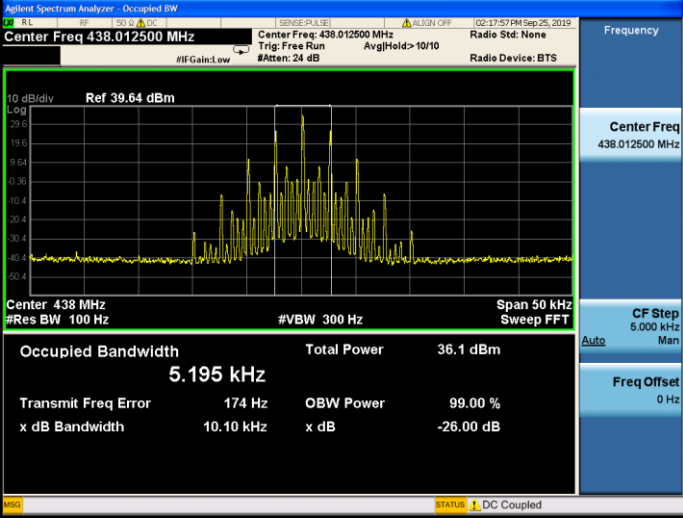
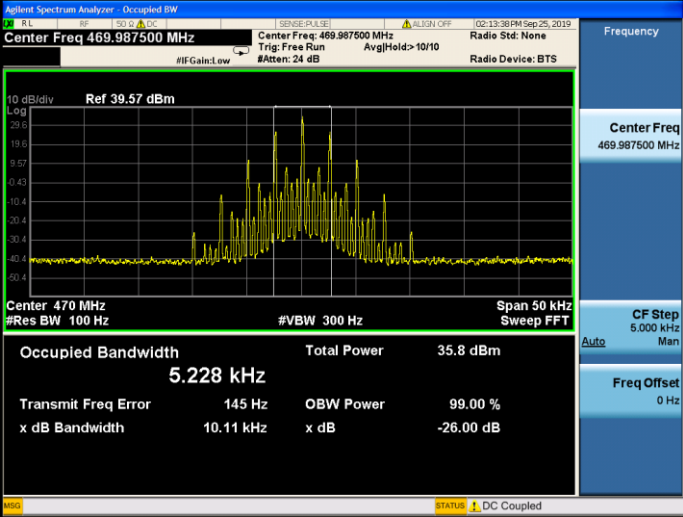


Appendix B:Occupied Bandwidth

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

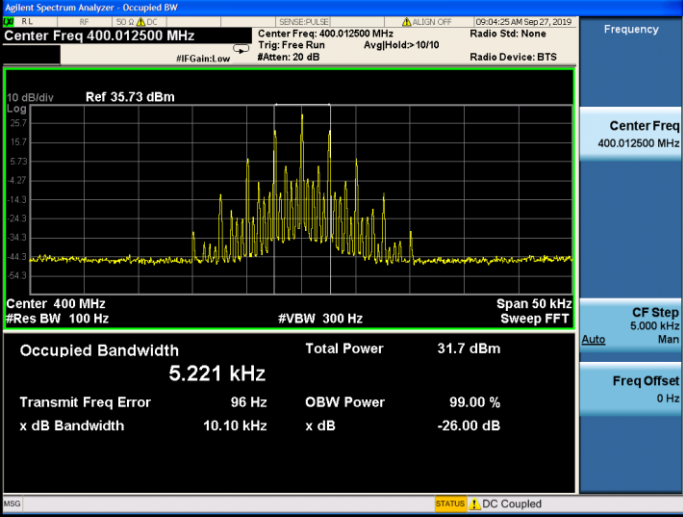
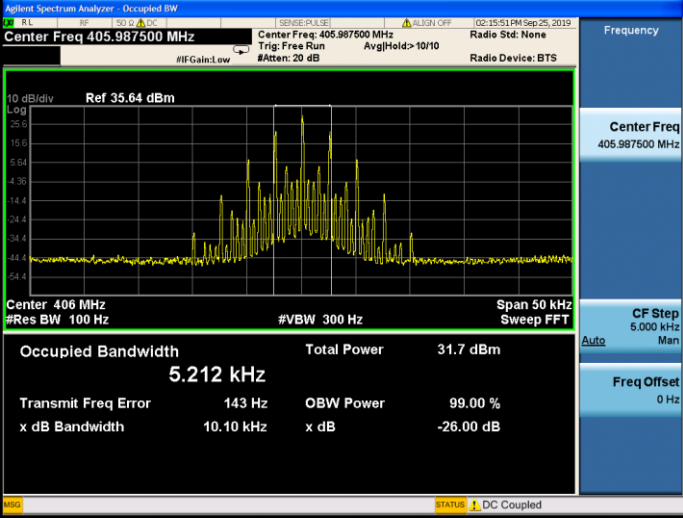
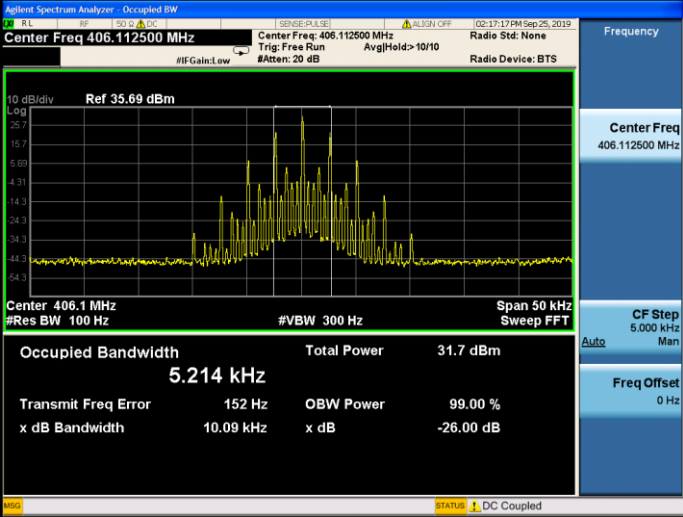


Appendix B:Occupied Bandwidth

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

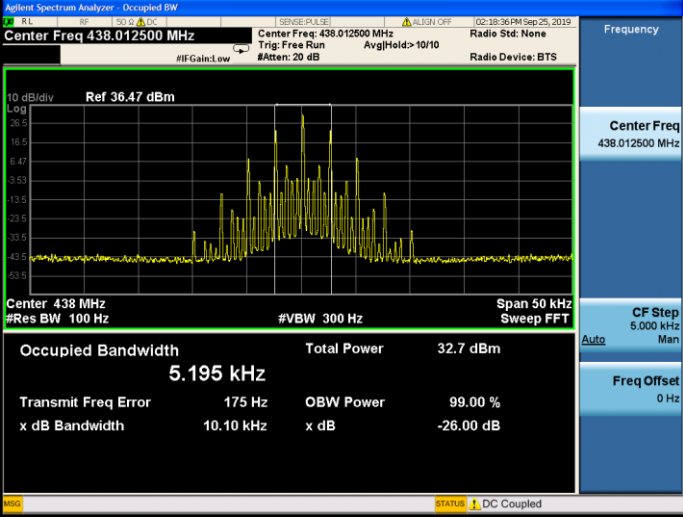
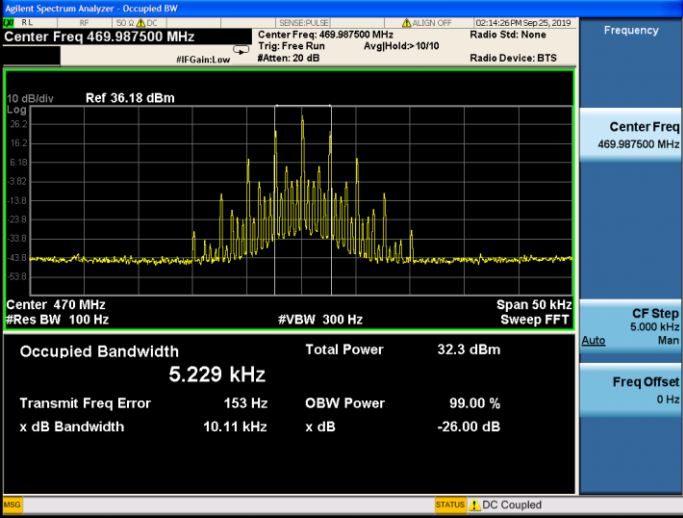


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	
TX-ANL	FM	CH _{M1}	
TX-ANL	FM	CH _{M2}	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None #IF Gain: Low #Atten: 20 dB Radio Device: BTS Ref 36.47 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.195 kHz Total Power 32.7 dBm Transmit Freq Error 175 Hz OBW Power 99.00 % x dB Bandwidth 10.10 kHz x dB -26.00 dB Frequency 438.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None #IF Gain: Low #Atten: 20 dB Radio Device: BTS Ref 36.18 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.229 kHz Total Power 32.3 dBm Transmit Freq Error 153 Hz OBW Power 99.00 % x dB Bandwidth 10.11 kHz x dB -26.00 dB Frequency 469.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 02:03:06 PM Oct 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 400 MHz Span 120 kHz Total Power Ref 35.72 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>5.625 kHz</td><td>100.0 Hz</td><td>-8.362</td><td>(-45.01)</td><td>-800.0</td><td>35.68</td><td>(-0.96)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.34</td><td>(-5.00)</td><td>-12.30 k</td><td>-41.65</td><td>(-6.86)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.84</td><td>(-17.84)</td><td>-13.85 k</td><td>-37.68</td><td>(-17.68)</td><td>14.20 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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_L</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 02:03:39 PM Oct 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 400 MHz Span 120 kHz Total Power Ref 39.01 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>5.625 kHz</td><td>100.0 Hz</td><td>25.65</td><td>(-11.00)</td><td>-250.0</td><td>27.36</td><td>(-9.29)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.81</td><td>(-3.48)</td><td>-12.30 k</td><td>-36.98</td><td>(-2.55)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.81</td><td>(-16.81)</td><td>-14.95 k</td><td>-36.29</td><td>(-16.29)</td><td>14.05 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> File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:56:15 PM Oct 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 406 MHz Span 120 kHz Total Power Ref 35.84 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>5.625 kHz</td><td>100.0 Hz</td><td>-7.242</td><td>(-44.07)</td><td>-500.0</td><td>35.88</td><td>(-0.95)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.76</td><td>(-8.88)</td><td>-11.30 k</td><td>-34.67</td><td>(-6.60)</td><td>11.60 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.99</td><td>(-14.99)</td><td>-14.45 k</td><td>-34.85</td><td>(-14.85)</td><td>14.75 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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz </td></tr></td></tr>	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	-8.362	(-45.01)	-800.0	35.68	(-0.96)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.34	(-5.00)	-12.30 k	-41.65	(-6.86)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.84	(-17.84)	-13.85 k	-37.68	(-17.68)	14.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 02:03:39 PM Oct 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 400 MHz Span 120 kHz Total Power Ref 39.01 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>5.625 kHz</td><td>100.0 Hz</td><td>25.65</td><td>(-11.00)</td><td>-250.0</td><td>27.36</td><td>(-9.29)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.81</td><td>(-3.48)</td><td>-12.30 k</td><td>-36.98</td><td>(-2.55)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.81</td><td>(-16.81)</td><td>-14.95 k</td><td>-36.29</td><td>(-16.29)</td><td>14.05 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> File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - 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TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:56:15 PM Oct 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 406 MHz Span 120 kHz Total Power Ref 35.84 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>5.625 kHz</td><td>100.0 Hz</td><td>-7.242</td><td>(-44.07)</td><td>-500.0</td><td>35.88</td><td>(-0.95)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.76</td><td>(-8.88)</td><td>-11.30 k</td><td>-34.67</td><td>(-6.60)</td><td>11.60 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.99</td><td>(-14.99)</td><td>-14.45 k</td><td>-34.85</td><td>(-14.85)</td><td>14.75 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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 405.987500 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	5.625 kHz	100.0 Hz	-7.242	(-44.07)	-500.0	35.88	(-0.95)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.76	(-8.88)	-11.30 k	-34.67	(-6.60)	11.60 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.99	(-14.99)	-14.45 k	-34.85	(-14.85)	14.75 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	—	(—)	—	—	(—)	—																																																																																																																																						
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TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq: 405.987500 MHz Span: 120 kHz Total Power Ref: 35.90 dBm @ 0.0125 MHz <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>< Peak > dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>21.90</td> <td>(-14.93)</td> <td>-50.00</td> <td>24.83</td> <td>(-12.00)</td> <td>850.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.25</td> <td>(-4.37)</td> <td>-12.40 k</td> <td>-37.08</td> <td>(-3.20)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-39.19</td> <td>(-19.19)</td> <td>-12.60 k</td> <td>-37.65</td> <td>(-17.65)</td> <td>13.15 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 > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.90	(-14.93)	-50.00	24.83	(-12.00)	850.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.25	(-4.37)	-12.40 k	-37.08	(-3.20)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.19	(-19.19)	-12.60 k	-37.65	(-17.65)	13.15 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-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq: 406.112500 MHz Span: 120 kHz Total Power Ref: 35.85 dBm @ 0.0125 MHz <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>< Peak > dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>-7.272</td> <td>(-44.07)</td> <td>-750.0</td> <td>35.85</td> <td>(-0.95)</td> <td>150.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.62</td> <td>(-3.43)</td> <td>-12.30 k</td> <td>-39.74</td> <td>(-6.19)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-38.58</td> <td>(-18.58)</td> <td>-19.70 k</td> <td>-38.04</td> <td>(-18.04)</td> <td>12.70 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>	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	-7.272	(-44.07)	-750.0	35.85	(-0.95)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.62	(-3.43)	-12.30 k	-39.74	(-6.19)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.58	(-18.58)	-19.70 k	-38.04	(-18.04)	12.70 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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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq: 406.112500 MHz Span: 120 kHz Total Power Ref: 39.36 dBm @ 0.0125 MHz <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>< Peak > dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>26.25</td> <td>(-10.54)</td> <td>-950.0</td> <td>26.29</td> <td>(-10.50)</td> <td>1.500 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.24</td> <td>(-2.96)</td> <td>-12.45 k</td> <td>-36.10</td> <td>(-3.64)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.71</td> <td>(-15.71)</td> <td>-13.75 k</td> <td>-35.20</td> <td>(-15.20)</td> <td>13.60 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>	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	26.25	(-10.54)	-950.0	26.29	(-10.50)	1.500 k	5.625 kHz	12.50 kHz	100.0 Hz	-37.24	(-2.96)	-12.45 k	-36.10	(-3.64)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.71	(-15.71)	-13.75 k	-35.20	(-15.20)	13.60 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 438 MHz Span 120 kHz Total Power Ref 36.10 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>5.625 kHz</td><td>100.0 Hz</td><td>-8.239</td><td>(-45.53)</td><td>-200.0</td><td>35.93</td><td>(-1.36)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.81</td><td>(-6.57)</td><td>-12.10 k</td><td>-38.01</td><td>(-4.96)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.98</td><td>(-16.98)</td><td>-13.70 k</td><td>-37.12</td><td>(-17.12)</td><td>13.20 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> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	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	-8.239	(-45.53)	-200.0	35.93	(-1.36)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.81	(-6.57)	-12.10 k	-38.01	(-4.96)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.98	(-16.98)	-13.70 k	-37.12	(-17.12)	13.20 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-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 470 MHz Span 120 kHz Total Power Ref 36.12 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>5.625 kHz</td><td>100.0 Hz</td><td>-5.605</td><td>(-42.89)</td><td>-200.0</td><td>36.09</td><td>(-1.20)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.21</td><td>(-8.51)</td><td>-12.30 k</td><td>-39.65</td><td>(-7.31)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.64</td><td>(-16.64)</td><td>-17.15 k</td><td>-36.67</td><td>(-16.67)</td><td>16.10 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> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	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	-5.605	(-42.89)	-200.0	36.09	(-1.20)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.21	(-8.51)	-12.30 k	-39.65	(-7.31)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.64	(-16.64)	-17.15 k	-36.67	(-16.67)	16.10 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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12.50 kHz	60.00 kHz	100.0 Hz	-36.64	(-16.64)	-17.15 k	-36.67	(-16.67)	16.10 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:54:14PM Oct 09, 2019 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 470 MHz Span 120 kHz Total Power Ref 36.53 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>5.625 kHz</td><td>100.0 Hz</td><td>21.87</td><td>(-15.42)</td><td>0.0</td><td>25.15</td><td>(-12.13)</td><td>850.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.02</td><td>(-7.87)</td><td>-12.50 k</td><td>-39.50</td><td>(-5.35)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.43</td><td>(-18.43)</td><td>-14.05 k</td><td>-31.83</td><td>(-11.83)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved (STATUS) Frequency Center Freq 469.987500 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	5.625 kHz	100.0 Hz	21.87	(-15.42)	0.0	25.15	(-12.13)	850.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.02	(-7.87)	-12.50 k	-39.50	(-5.35)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.43	(-18.43)	-14.05 k	-31.83	(-11.83)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 02:04:11PM Oct 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 0.00 -13.0 -23.0 -33.0 -43.0 -53.0 Center 400 MHz Span 120 kHz Total Power Ref 32.25 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>5.625 kHz</td><td>100.0 Hz</td><td>-10.71</td><td>(-43.93)</td><td>-200.0</td><td>32.28</td><td>(-9.94)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.86</td><td>(-5.84)</td><td>-12.50 k</td><td>-45.89</td><td>(-7.67)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.49</td><td>(-22.49)</td><td>-26.05 k</td><td>-42.72</td><td>(-22.72)</td><td>26.35 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> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 400.012500 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	5.625 kHz	100.0 Hz	-10.71	(-43.93)	-200.0	32.28	(-9.94)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.86	(-5.84)	-12.50 k	-45.89	(-7.67)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.49	(-22.49)	-26.05 k	-42.72	(-22.72)	26.35 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	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 02:04:45PM Oct 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 0.00 -13.0 -23.0 -33.0 -43.0 -53.0 Center 400 MHz Span 120 kHz Total Power Ref 35.96 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>5.625 kHz</td><td>100.0 Hz</td><td>22.80</td><td>(-10.42)</td><td>-1.100 k</td><td>24.20</td><td>(-9.03)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.37</td><td>(-5.16)</td><td>-12.50 k</td><td>-38.20</td><td>(-0.71)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.85</td><td>(-20.85)</td><td>-14.05 k</td><td>-38.05</td><td>(-18.05)</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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 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	5.625 kHz	100.0 Hz	22.80	(-10.42)	-1.100 k	24.20	(-9.03)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.37	(-5.16)	-12.50 k	-38.20	(-0.71)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.85	(-20.85)	-14.05 k	-38.05	(-18.05)	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	—	(—)	—	—	(—)	—
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 kHz	60.00 kHz	100.0 Hz	-40.85	(-20.85)	-14.05 k	-38.05	(-18.05)	12.90 k																																																										
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS 01:57:22 PM Oct 09, 2019 Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.0 3.0 30.0 40.0 50.0 Center 406 MHz Span 120 kHz Total Power Ref 32.33 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>5.625 kHz</td><td>100.0 Hz</td><td>-11.10</td><td>(-44.42)</td><td>-300.0</td><td>32.37</td><td>(-0.95)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.84</td><td>(-5.81)</td><td>-12.35 k</td><td>-43.89</td><td>(-6.13)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.56</td><td>(-21.56)</td><td>-12.55 k</td><td>-41.53</td><td>(-21.53)</td><td>13.05 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> File <MASK.D.state> recalled STATUS Frequency Center Freq 405.987500 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	5.625 kHz	100.0 Hz	-11.10	(-44.42)	-300.0	32.37	(-0.95)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.84	(-5.81)	-12.35 k	-43.89	(-6.13)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.56	(-21.56)	-12.55 k	-41.53	(-21.53)	13.05 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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 01:57:56 PM Oct 09, 2019 Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.0 3.0 30.0 40.0 50.0 Center 406 MHz Span 120 kHz Total Power Ref 38.90 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>5.625 kHz</td><td>100.0 Hz</td><td>26.48</td><td>(-6.84)</td><td>-150.0</td><td>27.74</td><td>(-5.58)</td><td>850.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.82</td><td>(-0.23)</td><td>-12.40 k</td><td>-38.48</td><td>(-0.36)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.53</td><td>(-15.53)</td><td>-12.55 k</td><td>-37.29</td><td>(-17.29)</td><td>12.70 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></table> File <Temp.png> saved STATUS Frequency Center Freq 405.987500 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	5.625 kHz	100.0 Hz	26.48	(-6.84)	-150.0	27.74	(-5.58)	850.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.82	(-0.23)	-12.40 k	-38.48	(-0.36)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.53	(-15.53)	-12.55 k	-37.29	(-17.29)	12.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—																																																										
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS 01:59:42 PM Oct 09, 2019 Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.0 3.0 30.0 40.0 50.0 Center 406.1 MHz Span 120 kHz Total Power Ref 32.31 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>5.625 kHz</td><td>100.0 Hz</td><td>-12.39</td><td>(-45.68)</td><td>-250.0</td><td>32.32</td><td>(-0.98)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.73</td><td>(-5.95)</td><td>-12.45 k</td><td>-45.39</td><td>(-7.25)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.64</td><td>(-21.64)</td><td>-13.20 k</td><td>-42.45</td><td>(-22.45)</td><td>13.50 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> File <MASK.D.state> recalled STATUS Frequency Center Freq 406.112500 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	5.625 kHz	100.0 Hz	-12.39	(-45.68)	-250.0	32.32	(-0.98)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.73	(-5.95)	-12.45 k	-45.39	(-7.25)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.64	(-21.64)	-13.20 k	-42.45	(-22.45)	13.50 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 02:00:14PM Oct 09, 2019 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.0 -3.0 -13.0 -23.0 -33.0 -43.0 -53.0 Center 406.1 MHz Span 120 kHz Total Power Ref 35.15 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>21.83</td><td>(-11.46)</td><td>-750.0</td><td>25.35</td><td>(7.94)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.54</td><td>(2.58)</td><td>-12.20 k</td><td>-36.70</td><td>(-0.37)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.77</td><td>(-18.77)</td><td>-12.70 k</td><td>-39.15</td><td>(-19.15)</td><td>14.40 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 406.112500 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	5.625 kHz	100.0 Hz	21.83	(-11.46)	-750.0	25.35	(7.94)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.54	(2.58)	-12.20 k	-36.70	(-0.37)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.77	(-18.77)	-12.70 k	-39.15	(-19.15)	14.40 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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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:21:01 AM Oct 10, 2019 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 438 MHz Span 120 kHz Total Power Ref 33.17 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 > 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>-2.788</td><td>(-39.79)</td><td>0.0</td><td>32.67</td><td>(4.33)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.07</td><td>(-10.72)</td><td>-12.35 k</td><td>-45.18</td><td>(-15.47)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.21</td><td>(-21.21)</td><td>-13.55 k</td><td>-41.29</td><td>(-21.29)</td><td>12.85 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 438.012500 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	5.625 kHz	100.0 Hz	-2.788	(-39.79)	0.0	32.67	(4.33)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.07	(-10.72)	-12.35 k	-45.18	(-15.47)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.21	(-21.21)	-13.55 k	-41.29	(-21.29)	12.85 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 _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:27:51 AM Oct 10, 2019 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.9 21.9 11.9 1.9 -8.9 -18.9 -28.9 -38.9 -48.9 Center 438 MHz Span 120 kHz Total Power Ref 35.91 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>21.93</td><td>(-15.07)</td><td>-800.0</td><td>29.22</td><td>(-7.78)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.85</td><td>(-7.42)</td><td>-12.50 k</td><td>-37.01</td><td>(-2.94)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.70</td><td>(-17.70)</td><td>-14.45 k</td><td>-36.08</td><td>(-16.08)</td><td>13.20 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 438.012500 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	5.625 kHz	100.0 Hz	21.93	(-15.07)	-800.0	29.22	(-7.78)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.85	(-7.42)	-12.50 k	-37.01	(-2.94)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.70	(-17.70)	-14.45 k	-36.08	(-16.08)	13.20 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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