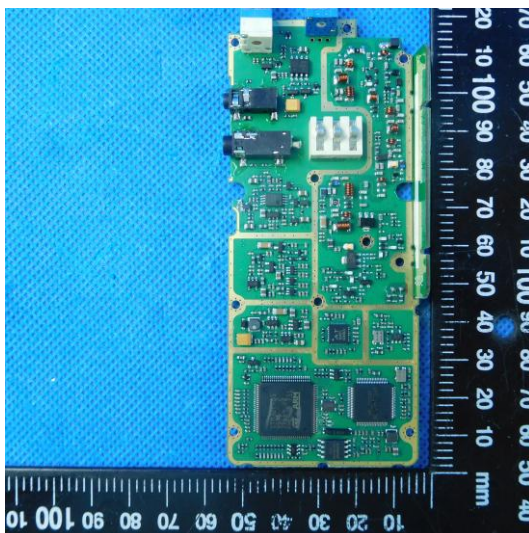
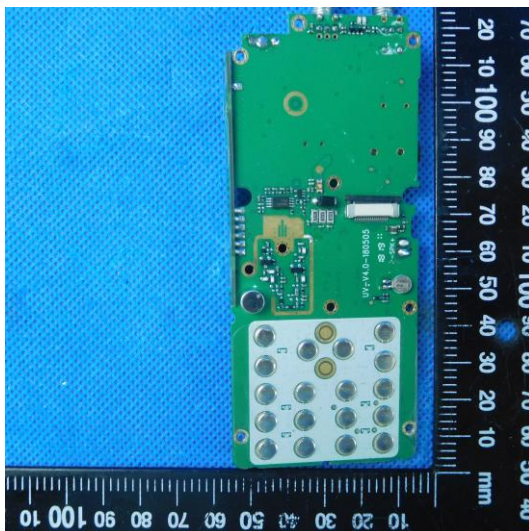
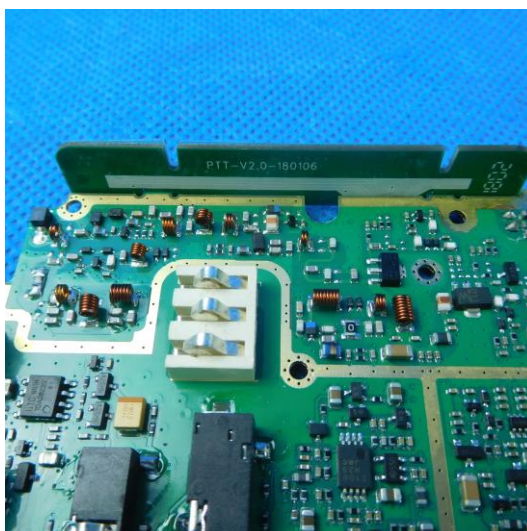






8 APPENDIX REPORT

**Appendix A:Maximum Transmitter Power For VHF Band**

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.7	4.68	5.00	-6.5	±20	PASS
TX-DNH	4FSK	CH _M	36.8	4.79	5.00	-4.3	±20	PASS
TX-DNH	4FSK	CH _H	36.4	4.37	5.00	-12.7	±20	PASS
TX-DNL	4FSK	CH _L	29.1	0.81	1.00	-18.7	±20	PASS
TX-DNL	4FSK	CH _M	29.7	0.93	1.00	-6.7	±20	PASS
TX-DNL	4FSK	CH _H	29.2	0.83	1.00	-16.8	±20	PASS

**Appendix A:Maximum Transmitter Power For UHF Band**

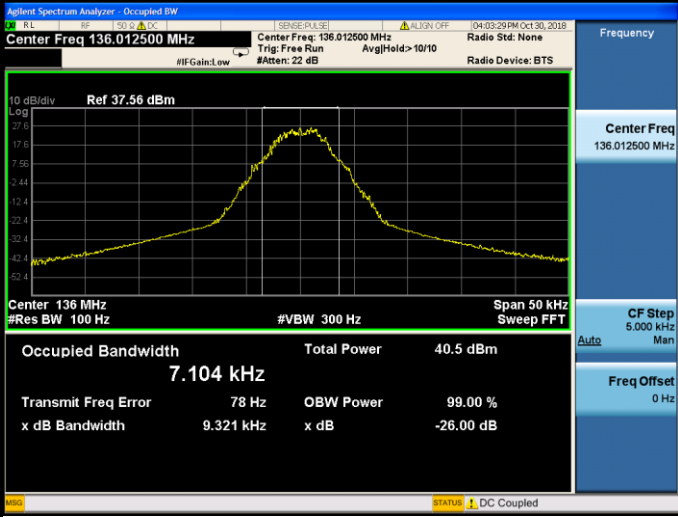
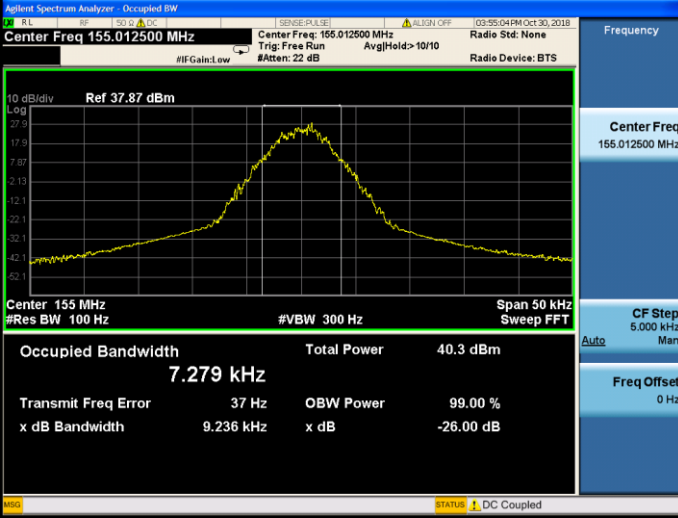
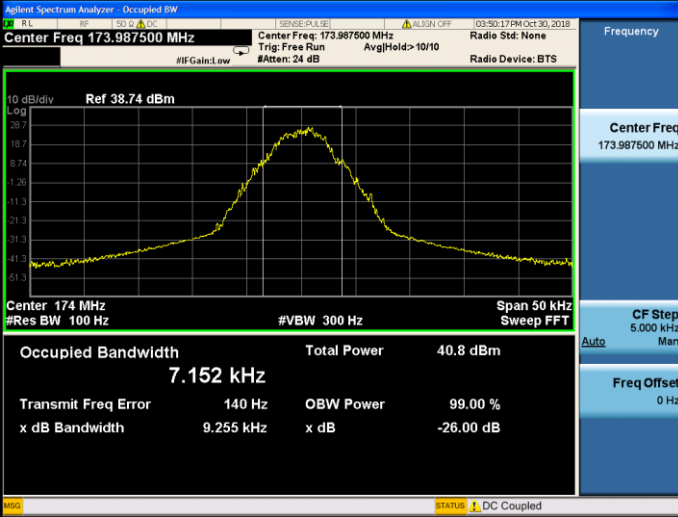
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _{L1}	36.7	4.68	5.00	-6.5	±20	PASS
TX-DNH	4FSK	CH _{M1}	36.8	4.79	5.00	-4.3	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.4	4.37	5.00	-12.7	±20	PASS
TX-DNH	4FSK	CH _{M3}	36.7	4.68	5.00	-6.5	±20	PASS
TX-DNH	4FSK	CH _{H1}	36.6	4.57	5.00	-8.6	±20	PASS
TX-DNL	4FSK	CH _{L1}	29.9	0.97	1.00	-2.9	±20	PASS
TX-DNL	4FSK	CH _{M1}	29.6	0.91	1.00	-8.8	±20	PASS
TX-DNL	4FSK	CH _{M2}	29.8	0.95	1.00	-4.5	±20	PASS
TX-DNL	4FSK	CH _{M3}	29.7	0.93	1.00	-6.7	±20	PASS
TX-DNL	4FSK	CH _{H1}	29.4	0.87	1.00	-12.9	±20	PASS

**Appendix B:Occupied Bandwidth For VHF Band**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.104	9.321	≤11.25	PASS
TX-DNH	4FSK	CH _M	7.279	9.236	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.152	9.255	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.330	9.712	≤11.25	PASS
TX-DNL	4FSK	CH _M	7.173	9.520	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.179	9.250	≤11.25	PASS



Appendix B:Occupied Bandwidth For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _M	
TX-DNH	4FSK	CH _H	



Appendix B:Occupied Bandwidth For VHF Band

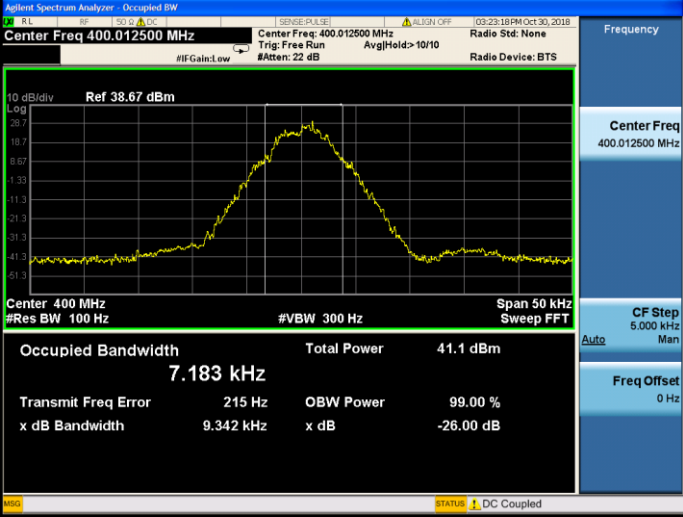
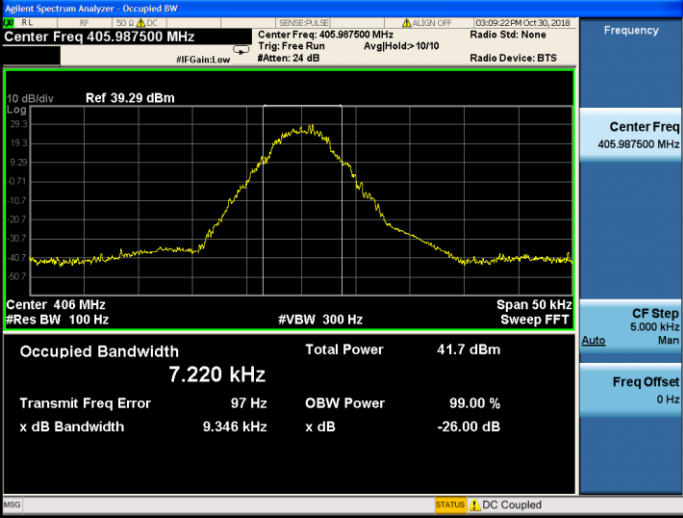
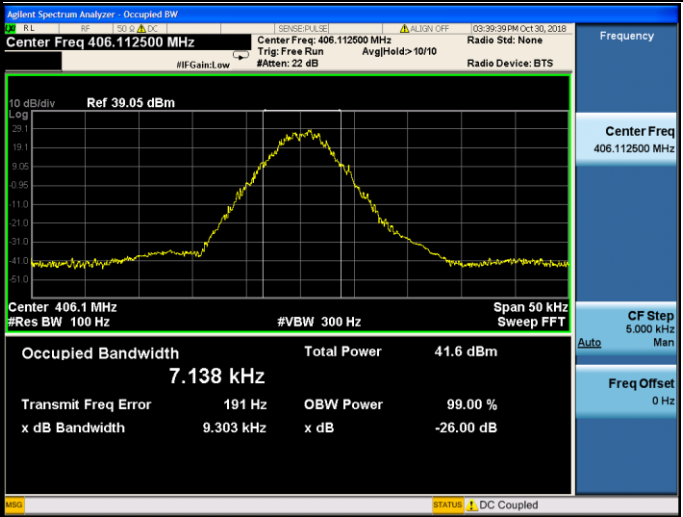
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 36.31 dBm 10 dB/div Center 136 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.330 kHz Total Power 38.6 dBm Transmit Freq Error 48 Hz OBW Power 99.00 % x dB Bandwidth 9.712 kHz x dB -26.00 dB Frequency Center Freq 136.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 37.75 dBm 10 dB/div Center 155 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.173 kHz Total Power 40.4 dBm Transmit Freq Error 87 Hz OBW Power 99.00 % x dB Bandwidth 9.520 kHz x dB -26.00 dB Frequency Center Freq 155.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 32.84 dBm 10 dB/div Center 174 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.179 kHz Total Power 35.1 dBm Transmit Freq Error 37 Hz OBW Power 99.00 % x dB Bandwidth 9.250 kHz x dB -26.00 dB Frequency Center Freq 173.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled

**Appendix B:Occupied Bandwidth For UHF Band**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _{L1}	7.183	9.342	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.220	9.246	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.138	9.303	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.143	9.231	≤11.25	PASS
TX-DNH	4FSK	CH _{H1}	7.198	9.360	≤11.25	PASS
TX-DNL	4FSK	CH _{L1}	7.514	9.928	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.140	9.493	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	6.919	9.272	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.097	9.288	≤11.25	PASS
TX-DNL	4FSK	CH _{H1}	7.422	9.658	≤11.25	PASS



Appendix B:Occupied Bandwidth For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{L1}	
TX-DNH	4FSK	CH _{M1}	
TX-DNH	4FSK	CH _{M2}	

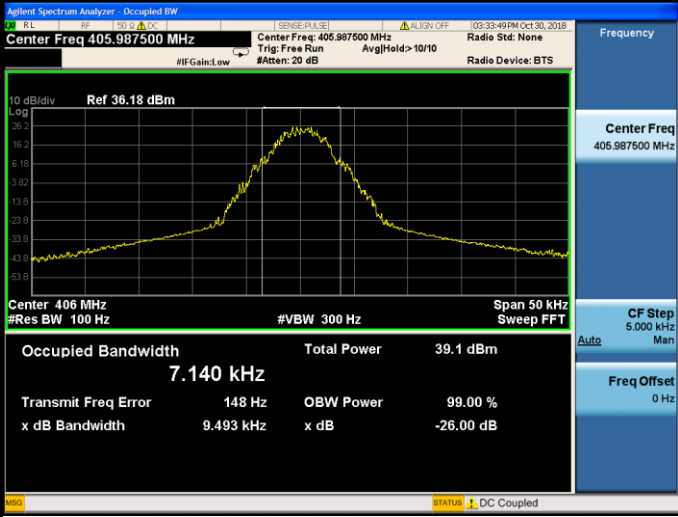
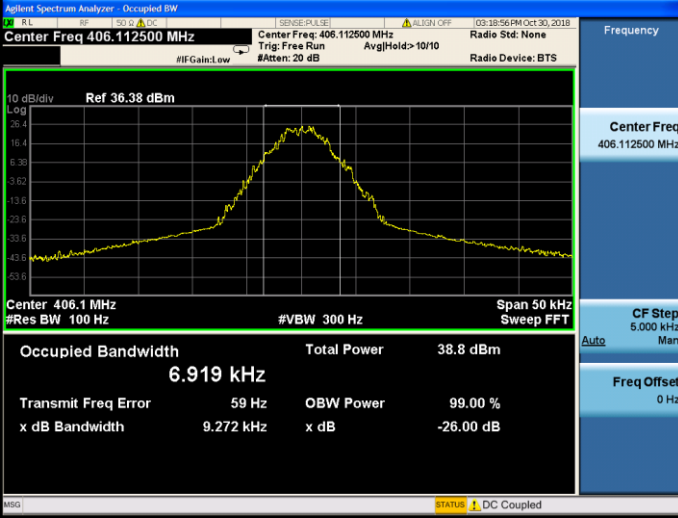
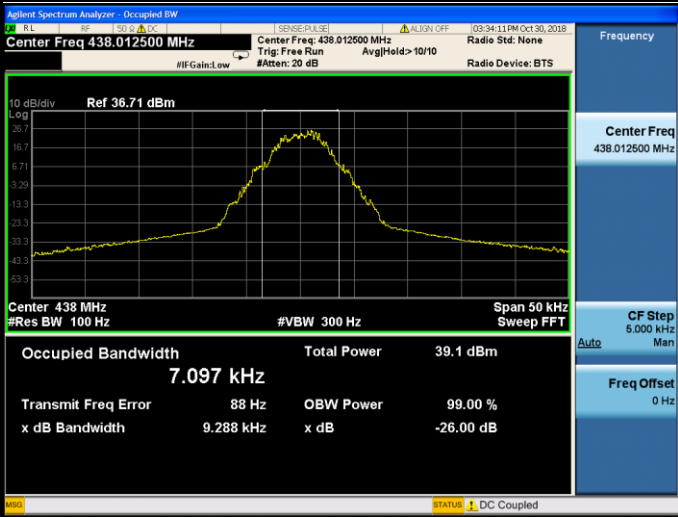


Appendix B:Occupied Bandwidth For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	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 Radio Device: BTS Ref 39.66 dBm 10 dB/div Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.143 kHz Total Power 42.2 dBm Transmit Freq Error 176 Hz OBW Power 99.00 % x dB Bandwidth 9.231 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNH	4FSK	CH _{H1}	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 Radio Device: BTS Ref 39.19 dBm 10 dB/div Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.198 kHz Total Power 41.8 dBm Transmit Freq Error 117 Hz OBW Power 99.00 % x dB Bandwidth 9.360 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNL	4FSK	CH _{L1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 36.33 dBm 10 dB/div Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.514 kHz Total Power 38.7 dBm Transmit Freq Error 134 Hz OBW Power 99.00 % x dB Bandwidth 9.928 kHz x dB -26.00 dB Frequency Center Freq 400.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled



Appendix B:Occupied Bandwidth For UHF Band

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 For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 36.62 dBm Occupied Bandwidth 7.422 kHz Total Power 38.4 dBm Transmit Freq Error 264 Hz OBW Power 99.00 % x dB Bandwidth 9.658 kHz x dB -26.00 dB



Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:38:17 AM Nov 29, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 31.0 dBm 10 dB/div Log 21.0 19.0 17.0 15.0 13.0 11.0 9.0 7.0 5.0 3.0 1.0 -1.0 -3.0 -5.0 -7.0 -9.0 -11.0 -13.0 -15.0 -17.0 -19.0 -21.0 Mask Actual Spectrum Center 136 MHz Span 120 kHz Total Power Ref 25.93 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>25.56</td><td>(-1.91)</td><td>0.0</td><td>25.99</td><td>(-1.48)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-50.09</td><td>(-6.12)</td><td>-12.50 k</td><td>-50.19</td><td>(-6.58)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.64</td><td>(-26.64)</td><td>-16.80 k</td><td>-46.80</td><td>(-26.80)</td><td>16.90 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> File <MASK D.state> recalled STATUS Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz 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	25.56	(-1.91)	0.0	25.99	(-1.48)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-50.09	(-6.12)	-12.50 k	-50.19	(-6.58)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.64	(-26.64)	-16.80 k	-46.80	(-26.80)	16.90 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	25.56	(-1.91)	0.0	25.99	(-1.48)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-50.09	(-6.12)	-12.50 k	-50.19	(-6.58)	12.45 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-46.64	(-26.64)	-16.80 k	-46.80	(-26.80)	16.90 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:38:54 AM Nov 29, 2018 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 31.0 dBm 10 dB/div Log 21.0 19.0 17.0 15.0 13.0 11.0 9.0 7.0 5.0 3.0 1.0 -1.0 -3.0 -5.0 -7.0 -9.0 -11.0 -13.0 -15.0 -17.0 -19.0 -21.0 Mask Actual Spectrum Center 136 MHz Span 120 kHz Total Power Ref 29.60 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>15.64</td><td>(-11.83)</td><td>-50.00</td><td>17.66</td><td>(9.80)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.15</td><td>(-2.55)</td><td>-12.45 k</td><td>-47.92</td><td>(-5.04)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.95</td><td>(-26.95)</td><td>-14.30 k</td><td>-44.93</td><td>(-24.93)</td><td>13.35 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></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz 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	15.64	(-11.83)	-50.00	17.66	(9.80)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.15	(-2.55)	-12.45 k	-47.92	(-5.04)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.95	(-26.95)	-14.30 k	-44.93	(-24.93)	13.35 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	15.64	(-11.83)	-50.00	17.66	(9.80)	750.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-46.15	(-2.55)	-12.45 k	-47.92	(-5.04)	12.35 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-46.95	(-26.95)	-14.30 k	-44.93	(-24.93)	13.35 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:39:51 AM Nov 29, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 32.0 dBm 10 dB/div Log 22.0 20.0 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 -2.0 -4.0 -6.0 -8.0 -10.0 -12.0 -14.0 -16.0 -18.0 -20.0 -22.0 Mask Actual Spectrum Center 155 MHz Span 120 kHz Total Power Ref 26.09 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< 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>25.70</td><td>(-1.96)</td><td>0.0</td><td>26.16</td><td>(-1.50)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.07</td><td>(-3.28)</td><td>-12.50 k</td><td>-46.27</td><td>(-6.85)</td><td>11.90 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-48.18</td><td>(-28.18)</td><td>-13.90 k</td><td>-47.70</td><td>(-27.70)</td><td>14.00 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 155.012500 MHz CF Step 12.000 kHz 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	25.70	(-1.96)	0.0	26.16	(-1.50)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-47.07	(-3.28)	-12.50 k	-46.27	(-6.85)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-48.18	(-28.18)	-13.90 k	-47.70	(-27.70)	14.00 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	25.70	(-1.96)	0.0	26.16	(-1.50)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-47.07	(-3.28)	-12.50 k	-46.27	(-6.85)	11.90 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-48.18	(-28.18)	-13.90 k	-47.70	(-27.70)	14.00 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	—	(—)	—	—	(—)	—																																																										

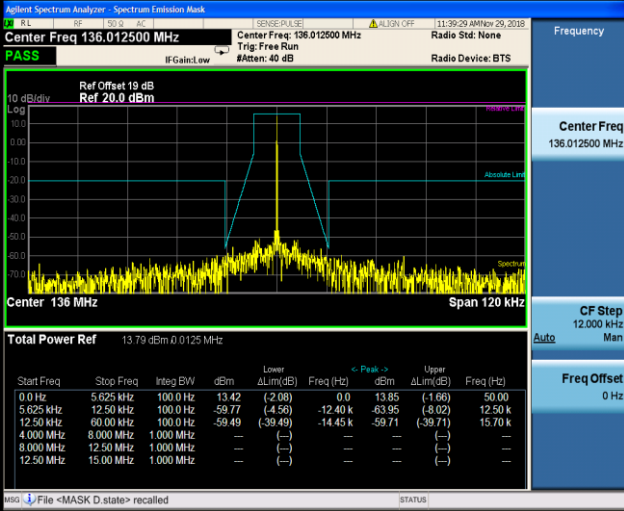
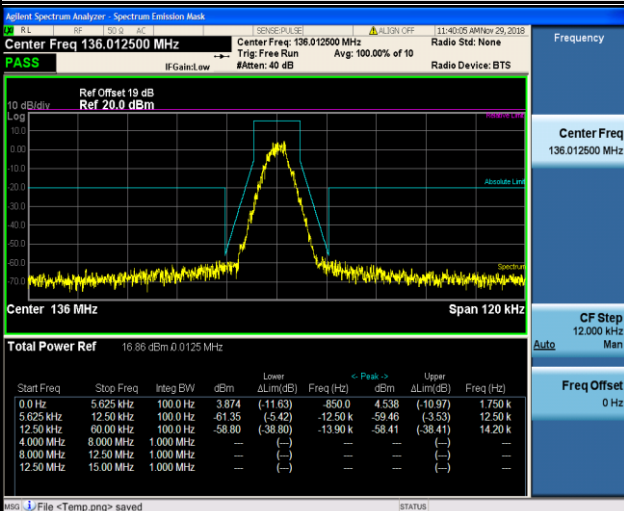
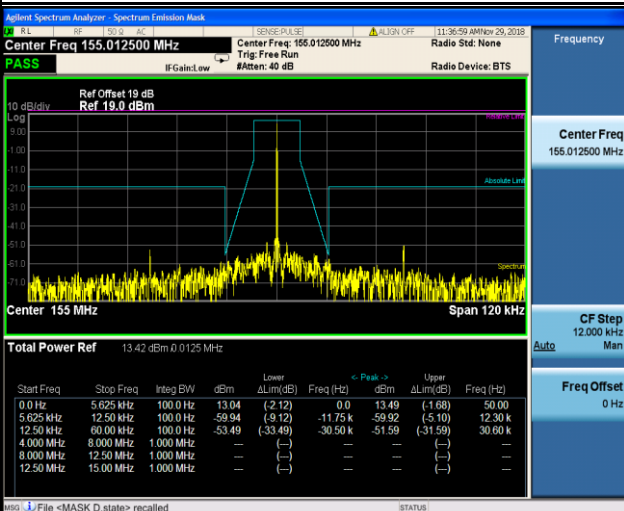


Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 11:36:26 AM Nov 29, 2018 Center Freq: 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 32.0 dBm 10 dB/div Log 22.0 20.0 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 -2.0 -4.0 -6.0 -8.0 -10.0 -12.0 -14.0 -16.0 -18.0 -20.0 -22.0 -24.0 -26.0 -28.0 -30.0 -32.0 -34.0 -36.0 -38.0 -40.0 -42.0 -44.0 -46.0 -48.0 -50.0 Mask



Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	
TX-DNL	4FSK	CH _L	
TX-DNL	4FSK	CH _M	



Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 11:37:34 AM Nov 29, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 19.0 dBm 10 dB/div Log 3.00 21.0 31.0 41.0 51.0 61.0 71.0 155.012500 MHz 155



Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{L1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 3.00 13.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 30.82 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 ></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>30.89</td><td>(-1.71)</td><td>0.0</td><td>30.89</td><td>(-1.71)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.16</td><td>(-6.78)</td><td>-12.30 k</td><td>-42.75</td><td>(-8.64)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.33</td><td>(-23.33)</td><td>-22.80 k</td><td>-41.65</td><td>(-21.65)</td><td>20.80 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.89	(-1.71)	0.0	30.89	(-1.71)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.16	(-6.78)	-12.30 k	-42.75	(-8.64)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.33	(-23.33)	-22.80 k	-41.65	(-21.65)	20.80 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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	30.89	(-1.71)	0.0	30.89	(-1.71)	0.0																																																										
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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 _{L1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 3.00 13.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 33.83 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 ></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>21.83</td><td>(-10.77)</td><td>-350.0</td><td>25.19</td><td>(-7.41)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.66</td><td>(-2.83)</td><td>-12.50 k</td><td>-40.82</td><td>(-1.99)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.00</td><td>(-20.00)</td><td>-13.80 k</td><td>-39.87</td><td>(-19.87)</td><td>16.85 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></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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.83	(-10.77)	-350.0	25.19	(-7.41)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.66	(-2.83)	-12.50 k	-40.82	(-1.99)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.00	(-20.00)	-13.80 k	-39.87	(-19.87)	16.85 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	—	(—)	—	—	(—)	—
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	21.83	(-10.77)	-350.0	25.19	(-7.41)	200.0																																																										
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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-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 3.00 13.0 43.0 53.0 Center 406 MHz Span 120 kHz Total Power Ref 31.26 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 ></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>31.09</td><td>(-1.66)</td><td>0.0</td><td>31.09</td><td>(-1.66)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.32</td><td>(-7.54)</td><td>-12.10 k</td><td>-44.86</td><td>(-8.35)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.82</td><td>(-21.82)</td><td>-12.90 k</td><td>-39.63</td><td>(-19.63)</td><td>12.95 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.09	(-1.66)	0.0	31.09	(-1.66)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.32	(-7.54)	-12.10 k	-44.86	(-8.35)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.82	(-21.82)	-12.90 k	-39.63	(-19.63)	12.95 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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
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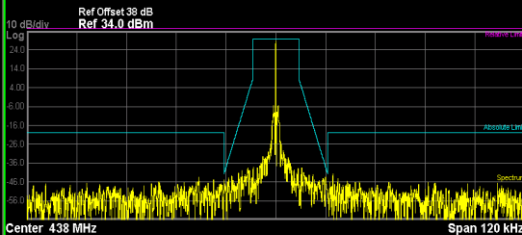
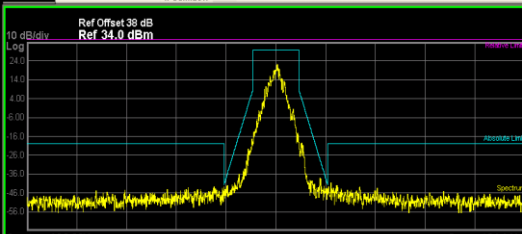
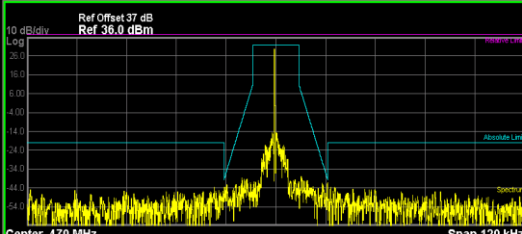


Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Ref Offset 37 dB Ref 37.0 dBm IF Gain: Low Atten: 40 dB Radio Std: None Radio Device: BTS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz 10 dB/div Log 27.0 17.0 7.0 3.0 13.0 43.0 53.0 Ref Offset 37 dB Ref 37.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 33.87 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 ></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>22.55</td><td>(-10.21)</td><td>-300.0</td><td>25.34</td><td>(-7.41)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.63</td><td>(2.94)</td><td>-12.50 k</td><td>-42.23</td><td>(3.91)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.10</td><td>(-20.10)</td><td>-14.95 k</td><td>-39.25</td><td>(-19.25)</td><td>12.95 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	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	22.55	(-10.21)	-300.0	25.34	(-7.41)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.63	(2.94)	-12.50 k	-42.23	(3.91)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.10	(-20.10)	-14.95 k	-39.25	(-19.25)	12.95 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 >	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-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Ref Offset 37 dB Ref 37.0 dBm IF Gain: Low Atten: 40 dB Radio Std: None Radio Device: BTS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz 10 dB/div Log 27.0 17.0 7.0 3.0 13.0 43.0 53.0 Ref Offset 37 dB Ref 37.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 31.06 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 ></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>31.00</td><td>(-1.69)</td><td>0.0</td><td>31.00</td><td>(-1.69)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.20</td><td>(-4.46)</td><td>-12.50 k</td><td>-45.91</td><td>(-7.16)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.97</td><td>(-22.97)</td><td>-12.85 k</td><td>-41.83</td><td>(-21.83)</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> File <MASK D.state> recalled STATUS	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	31.00	(-1.69)	0.0	31.00	(-1.69)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.20	(-4.46)	-12.50 k	-45.91	(-7.16)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.97	(-22.97)	-12.85 k	-41.83	(-21.83)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak >	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-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Ref Offset 37 dB Ref 37.0 dBm IF Gain: Low Atten: 40 dB Radio Std: None Radio Device: BTS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz 10 dB/div Log 27.0 17.0 7.0 3.0 13.0 43.0 53.0 Ref Offset 37 dB Ref 37.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 34.00 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 ></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>24.33</td><td>(-8.36)</td><td>0.0</td><td>24.48</td><td>(-8.22)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.08</td><td>(-5.15)</td><td>-12.25 k</td><td>-44.82</td><td>(-6.44)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.94</td><td>(-20.94)</td><td>-14.50 k</td><td>-38.43</td><td>(-18.43)</td><td>13.80 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	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	24.33	(-8.36)	0.0	24.48	(-8.22)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.08	(-5.15)	-12.25 k	-44.82	(-6.44)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.94	(-20.94)	-14.50 k	-38.43	(-18.43)	13.80 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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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Appendix C:Emission Mask For UHF Band

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 Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 34.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 28.70 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 ></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>28.69</td><td>(-1.02)</td><td>0.0</td><td>28.69</td><td>(-1.02)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.79</td><td>(-3.79)</td><td>-12.40 k</td><td>-43.61</td><td>(-5.15)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.58</td><td>(-23.58)</td><td>-18.50 k</td><td>-41.65</td><td>(-21.65)</td><td>13.80 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 Man Freq Offset 0 Hz	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	28.69	(-1.02)	0.0	28.69	(-1.02)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.79	(-3.79)	-12.40 k	-43.61	(-5.15)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.58	(-23.58)	-18.50 k	-41.65	(-21.65)	13.80 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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 34.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 32.23 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 ></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>19.38</td><td>(-10.33)</td><td>-100.0</td><td>22.38</td><td>(7.33)</td><td>450.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.89</td><td>(-1.16)</td><td>-12.50 k</td><td>-43.53</td><td>(-2.89)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.85</td><td>(-22.85)</td><td>-14.85 k</td><td>-40.70</td><td>(-20.70)</td><td>13.35 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></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	19.38	(-10.33)	-100.0	22.38	(7.33)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.89	(-1.16)	-12.50 k	-43.53	(-2.89)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.85	(-22.85)	-14.85 k	-40.70	(-20.70)	13.35 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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-42.85	(-22.85)	-14.85 k	-40.70	(-20.70)	13.35 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNH	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 36.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 29.71 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 ></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>29.77</td><td>(-2.06)</td><td>-250.0</td><td>-14.74</td><td>(-46.58)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.49</td><td>(-5.70)</td><td>-12.25 k</td><td>-41.27</td><td>(-1.67)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.70</td><td>(-23.70)</td><td>-14.75 k</td><td>-43.46</td><td>(-23.46)</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 <MASK D.state> recalled STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	29.77	(-2.06)	-250.0	-14.74	(-46.58)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.49	(-5.70)	-12.25 k	-41.27	(-1.67)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.70	(-23.70)	-14.75 k	-43.46	(-23.46)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 37 dB Ref 36.0 dBm Center 470 MHz Span 120 kHz 10 dB/div Log