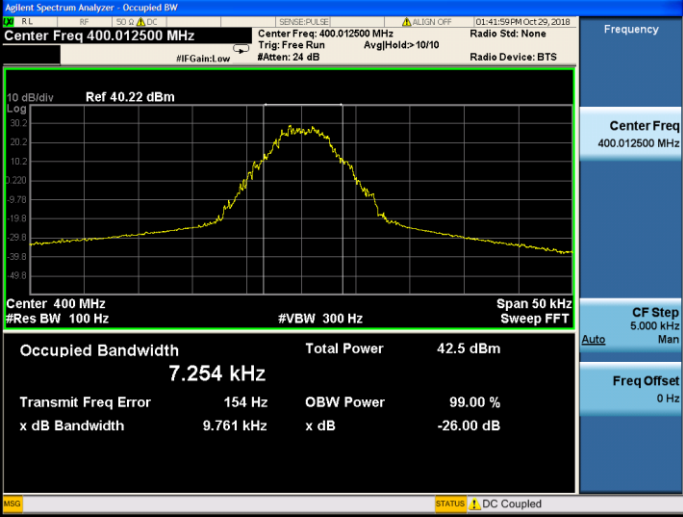
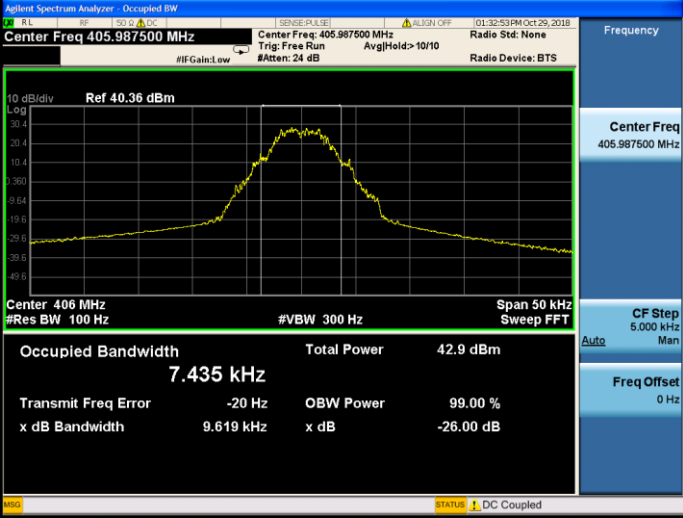
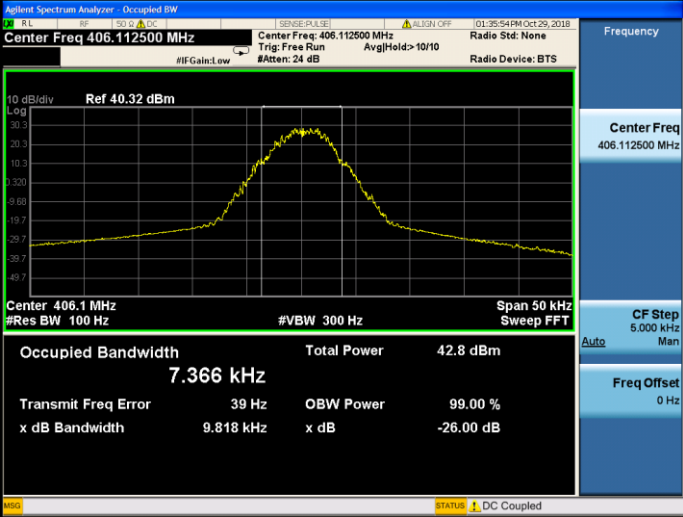


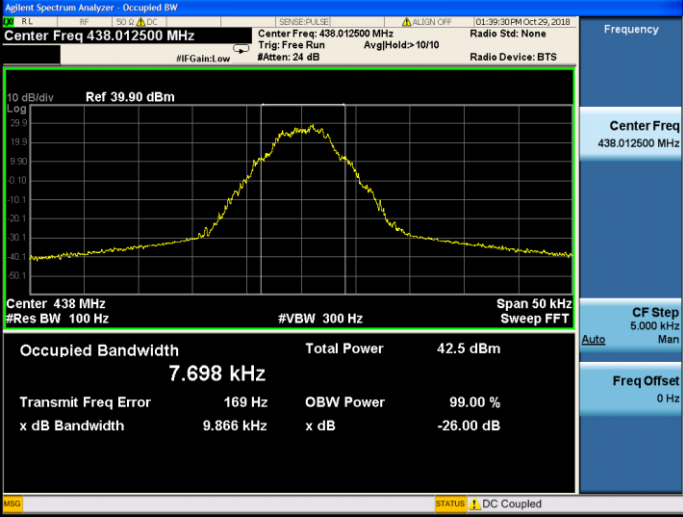
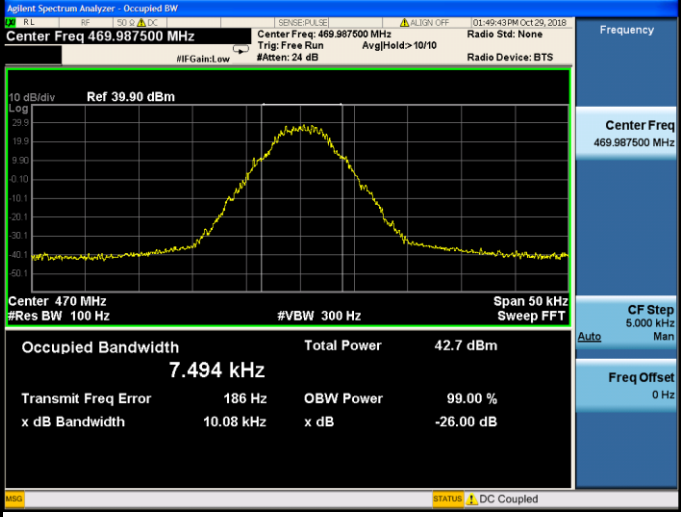
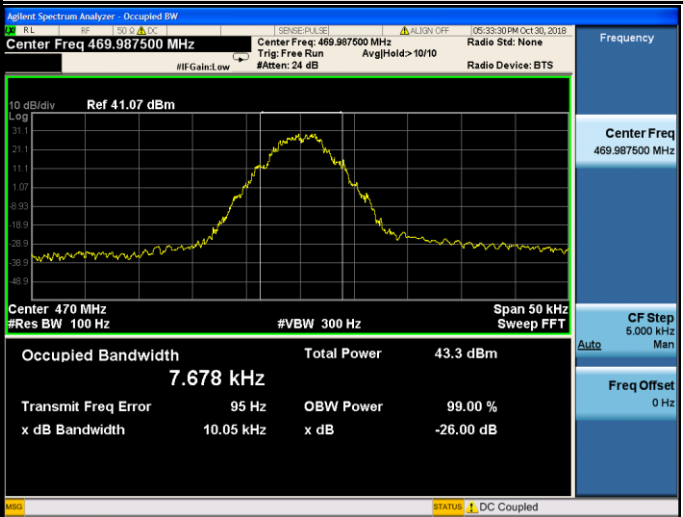


Appendix B:Occupied Bandwidth for UHF Band

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

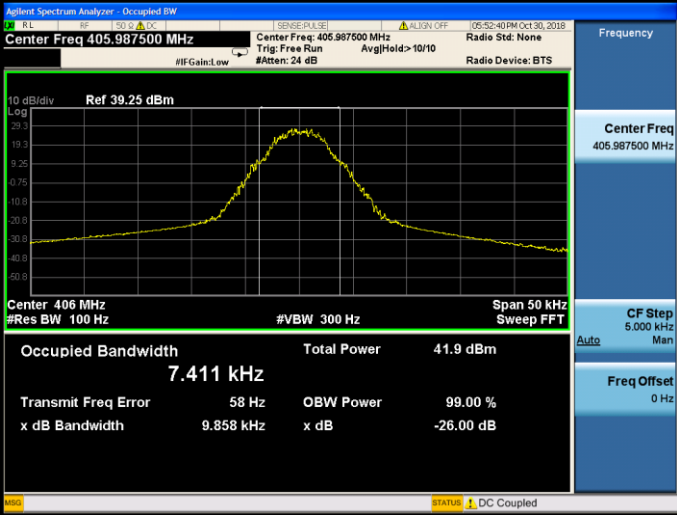
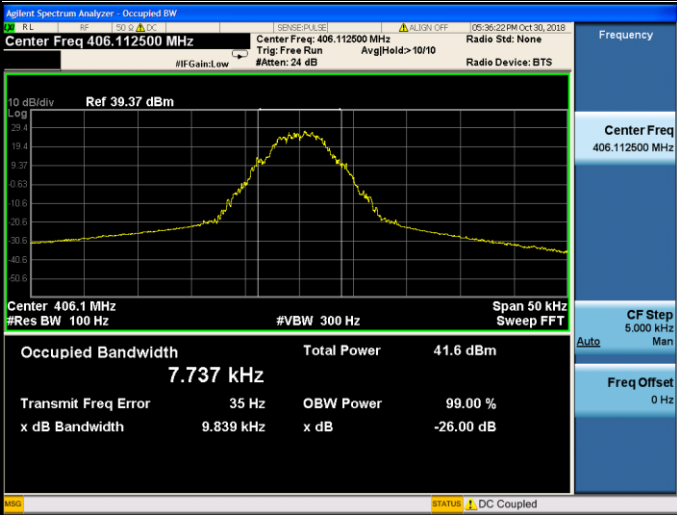
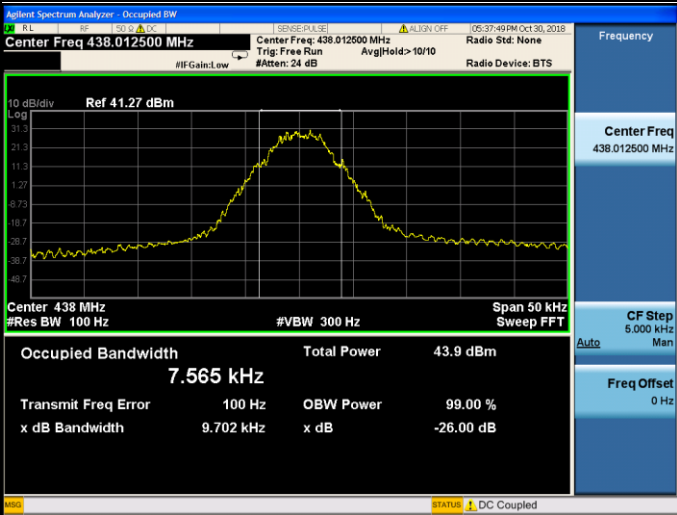


Appendix B:Occupied Bandwidth for UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	
TX-DNH	4FSK	CH _{H1}	
TX-DNL	4FSK	CH _{L1}	



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 Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run Avg/Hold: > 10/10 Radio Device: BTS #F Gain: Low Ref 40.31 dBm 10 dB/div Log Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.814 kHz Total Power 42.8 dBm Transmit Freq Error 155 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Auto Man Freq Offset 0 Hz Main STATUS: DC Coupled



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 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 32.0 dBm Center 136 MHz Span 120 kHz Total Power Ref 26.04 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>25.58</td><td>(-2.01)</td><td>0.0</td><td>26.10</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>-49.37</td><td>(-5.87)</td><td>-12.45 k</td><td>-51.43</td><td>(-7.58)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.95</td><td>(-27.95)</td><td>-14.10 k</td><td>-47.56</td><td>(-27.56)</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></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	25.58	(-2.01)	0.0	26.10	(-1.48)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-49.37	(-5.87)	-12.45 k	-51.43	(-7.58)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.95	(-27.95)	-14.10 k	-47.56	(-27.56)	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	—	(—)	—	—	(—)	—
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-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 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 32.0 dBm Center 136 MHz Span 120 kHz Total Power Ref 29.24 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > 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>16.39</td><td>(-11.19)</td><td>-50.00</td><td>18.32</td><td>(-9.26)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.01</td><td>(-4.88)</td><td>-11.85 k</td><td>-49.08</td><td>(-5.59)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.66</td><td>(-25.66)</td><td>-12.80 k</td><td>-46.89</td><td>(-26.89)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 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	16.39	(-11.19)	-50.00	18.32	(-9.26)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.01	(-4.88)	-11.85 k	-49.08	(-5.59)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.66	(-25.66)	-12.80 k	-46.89	(-26.89)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low Atten: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 32.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 26.10 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>25.71</td><td>(-1.96)</td><td>0.0</td><td>26.17</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>-48.65</td><td>(-4.88)</td><td>-12.50 k</td><td>-48.61</td><td>(-9.20)</td><td>11.90 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.51</td><td>(-27.51)</td><td>-15.10 k</td><td>-47.62</td><td>(-27.62)</td><td>15.20 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 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	25.71	(-1.96)	0.0	26.17	(-1.50)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-48.65	(-4.88)	-12.50 k	-48.61	(-9.20)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.51	(-27.51)	-15.10 k	-47.62	(-27.62)	15.20 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 > 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	—	(—)	—	—	(—)	—																																																										
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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 10:13:48 AM Nov 29, 2018 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 19 dB Ref 32.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 29.55 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>15.72</td><td>(-11.94)</td><td>-600.0</td><td>18.17</td><td>(-9.49)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.07</td><td>(-4.66)</td><td>-12.45 k</td><td>-46.83</td><td>(-3.78)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.37</td><td>(-26.37)</td><td>-12.55 k</td><td>-45.08</td><td>(-25.08)</td><td>15.40 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 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	15.72	(-11.94)	-600.0	18.17	(-9.49)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.07	(-4.66)	-12.45 k	-46.83	(-3.78)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.37	(-26.37)	-12.55 k	-45.08	(-25.08)	15.40 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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:35:56 AM Nov 29, 2018 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 19 dB Ref 32.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 26.07 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>24.42</td><td>(-3.18)</td><td>0.0</td><td>26.14</td><td>(-1.46)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.92</td><td>(-3.08)</td><td>-12.50 k</td><td>-50.42</td><td>(-8.40)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-49.57</td><td>(-29.57)</td><td>-12.70 k</td><td>-46.11</td><td>(-26.11)</td><td>12.50 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></tbody></table> File <MASK D.state> recalled STATUS Frequency Center Freq 173.987500 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	24.42	(-3.18)	0.0	26.14	(-1.46)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-46.92	(-3.08)	-12.50 k	-50.42	(-8.40)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-49.57	(-29.57)	-12.70 k	-46.11	(-26.11)	12.50 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	—	(—)	—	—	(—)	—
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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 _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:10:44 AM Nov 29, 2018 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 19 dB Ref 32.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 29.17 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 ></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>14.17</td><td>(-13.43)</td><td>0.0</td><td>17.96</td><td>(-9.64)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.43</td><td>(-4.95)</td><td>-12.45 k</td><td>-48.35</td><td>(-5.97)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.69</td><td>(-26.69)</td><td>-18.20 k</td><td>-45.35</td><td>(-25.35)</td><td>12.50 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></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 173.987500 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	14.17	(-13.43)	0.0	17.96	(-9.64)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.43	(-4.95)	-12.45 k	-48.35	(-5.97)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.69	(-26.69)	-18.20 k	-45.35	(-25.35)	12.50 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	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask for VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 20.0 dBm Center 136 MHz Span 120 kHz Total Power Ref 13.86 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>13.49</td><td>(-2.05)</td><td>0.0</td><td>13.92</td><td>(-1.62)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-58.13</td><td>(-5.15)</td><td>-12.10 k</td><td>-58.19</td><td>(-4.47)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-57.86</td><td>(-37.86)</td><td>-15.10 k</td><td>-59.33</td><td>(-39.33)</td><td>15.15 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> File <MASK.D.state> recalled Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz 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	13.49	(-2.05)	0.0	13.92	(-1.62)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-58.13	(-5.15)	-12.10 k	-58.19	(-4.47)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-57.86	(-37.86)	-15.10 k	-59.33	(-39.33)	15.15 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	—	(—)	—	—	(—)	—
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 _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 19 dB Ref 20.0 dBm Center 136 MHz Span 120 kHz Total Power Ref 17.13 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>4.401</td><td>(-11.14)</td><td>-800.0</td><td>6.762</td><td>(-8.78)</td><td>850.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-59.69</td><td>(-5.25)</td><td>-12.30 k</td><td>-58.23</td><td>(-3.43)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-56.31</td><td>(-36.31)</td><td>-14.35 k</td><td>-58.66</td><td>(-38.66)</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> File <Temp.png> saved Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz 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	4.401	(-11.14)	-800.0	6.762	(-8.78)	850.0	5.625 kHz	12.50 kHz	100.0 Hz	-59.69	(-5.25)	-12.30 k	-58.23	(-3.43)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-56.31	(-36.31)	-14.35 k	-58.66	(-38.66)	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-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 19 dB Ref 19.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 13.47 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>13.07</td><td>(-2.13)</td><td>0.0</td><td>13.53</td><td>(-1.67)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-63.09</td><td>(-7.59)</td><td>-12.40 k</td><td>-63.35</td><td>(-7.12)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-53.54</td><td>(-33.54)</td><td>-30.45 k</td><td>-54.47</td><td>(-34.47)</td><td>30.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz 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	13.07	(-2.13)	0.0	13.53	(-1.67)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-63.09	(-7.59)	-12.40 k	-63.35	(-7.12)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-53.54	(-33.54)	-30.45 k	-54.47	(-34.47)	30.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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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 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 19 dB Ref 19.0 dBm 10 dB/div Log </



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 RL SP FSK 4FSK AC SENSE PULSE ALIGN OFF 11:04:30 AM Nov 26, 2018 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS If Gain: Low Atten: 40 dB Radio Device: BTS Ref Offset 27 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 Center 400 MHz Span 120 kHz Total Power Ref 26.50 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>26.45</td><td>(-1.53)</td><td>0.0</td><td>26.45</td><td>(-1.53)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.98</td><td>(-2.88)</td><td>-12.45 k</td><td>-45.90</td><td>(-2.44)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.18</td><td>(-26.18)</td><td>-14.20 k</td><td>-46.63</td><td>(-26.63)</td><td>14.25 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 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	26.45	(-1.53)	0.0	26.45	(-1.53)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.98	(-2.88)	-12.45 k	-45.90	(-2.44)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.18	(-26.18)	-14.20 k	-46.63	(-26.63)	14.25 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 _{L1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SP FSK 4FSK AC SENSE PULSE ALIGN OFF 11:04:37 AM Nov 26, 2018 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS If Gain: Low Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 27 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 Center 400 MHz Span 120 kHz Total Power Ref 29.79 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>19.23</td><td>(-8.75)</td><td>-150.0</td><td>20.34</td><td>(-7.64)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.92</td><td>(-3.37)</td><td>-12.10 k</td><td>-46.92</td><td>(-5.28)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.38</td><td>(-25.38)</td><td>-13.05 k</td><td>-44.19</td><td>(-24.19)</td><td>15.15 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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 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	19.23	(-8.75)	-150.0	20.34	(-7.64)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.92	(-3.37)	-12.10 k	-46.92	(-5.28)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.38	(-25.38)	-13.05 k	-44.19	(-24.19)	15.15 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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12.50 kHz	60.00 kHz	100.0 Hz	-45.38	(-25.38)	-13.05 k	-44.19	(-24.19)	15.15 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SP FSK 4FSK AC SENSE PULSE ALIGN OFF 10:56:14 AM Nov 26, 2018 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS If Gain: Low Atten: 40 dB Radio Device: BTS Ref Offset 27 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 Center 406 MHz Span 120 kHz Total Power Ref 27.05 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>26.37</td><td>(-1.70)</td><td>0.0</td><td>26.53</td><td>(-1.54)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-49.78</td><td>(-6.41)</td><td>-12.50 k</td><td>-50.56</td><td>(-7.20)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.06</td><td>(-26.06)</td><td>-16.55 k</td><td>-45.33</td><td>(-25.33)</td><td>16.60 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></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 405.987500 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	26.37	(-1.70)	0.0	26.53	(-1.54)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-49.78	(-6.41)	-12.50 k	-50.56	(-7.20)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.06	(-26.06)	-16.55 k	-45.33	(-25.33)	16.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)																																																										
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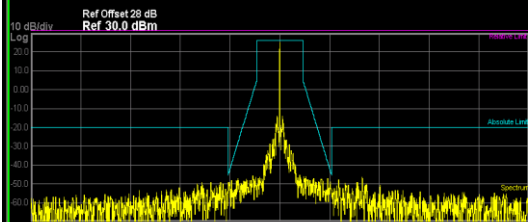
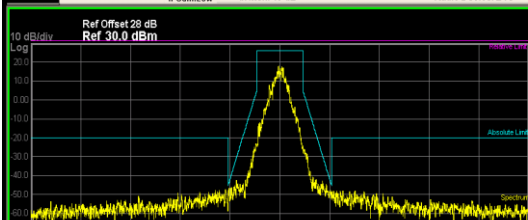
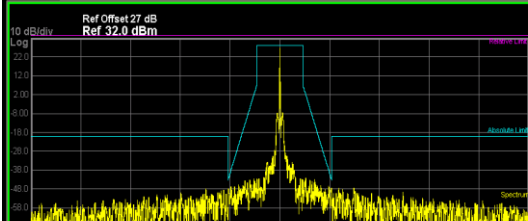


Appendix C:Emission Mask for UHF Band

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 Radio Std: None Radio Device: BTS Ref Offset 27 dB Ref 32.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 30.51 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>19.26</td><td>(-8.81)</td><td>-150.0</td><td>18.86</td><td>(-9.21)</td><td>350.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.41</td><td>(-2.05)</td><td>-12.50 k</td><td>-46.52</td><td>(-6.79)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.73</td><td>(-25.73)</td><td>-12.85 k</td><td>-43.76</td><td>(-23.76)</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></tbody></table> File <Temp.png> saved Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 27 dB Ref 32.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 26.73 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>26.23</td><td>(-1.83)</td><td>0.0</td><td>26.50</td><td>(-1.56)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.27</td><td>(-5.35)</td><td>-12.30 k</td><td>-48.12</td><td>(-5.84)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.89</td><td>(-25.89)</td><td>-13.30 k</td><td>-45.77</td><td>(-25.77)</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 <MASK.D.state> recalled Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - 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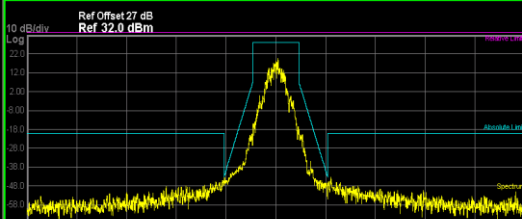
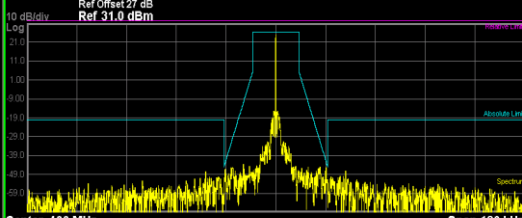
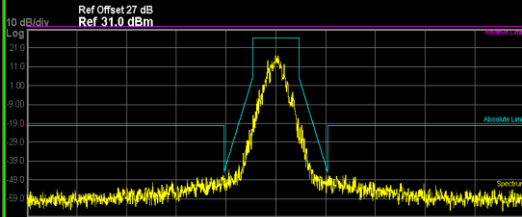


Appendix C:Emission Mask for UHF Band

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 Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 30.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 25.35 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>25.22</td><td>(-0.77)</td><td>0.0</td><td>25.22</td><td>(-0.77)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-49.53</td><td>(-4.80)</td><td>-12.40 k</td><td>-49.00</td><td>(-5.36)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-49.12</td><td>(-29.12)</td><td>-16.55 k</td><td>-46.37</td><td>(-26.37)</td><td>19.90 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 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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.22	(-0.77)	0.0	25.22	(-0.77)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-49.53	(-4.80)	-12.40 k	-49.00	(-5.36)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-49.12	(-29.12)	-16.55 k	-46.37	(-26.37)	19.90 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	—	(—)	—	—	(—)	—
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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 Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 32.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 26.52 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>26.40</td><td>(-1.71)</td><td>0.0</td><td>26.69</td><td>(-1.42)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.79</td><td>(-5.55)</td><td>-12.35 k</td><td>-47.60</td><td>(-4.64)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-48.08</td><td>(-28.08)</td><td>-17.80 k</td><td>-47.44</td><td>(-27.44)</td><td>17.95 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></tbody></table> File <MASK.D.state> recalled (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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.40	(-1.71)	0.0	26.69	(-1.42)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-47.79	(-5.55)	-12.35 k	-47.60	(-4.64)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-48.08	(-28.08)	-17.80 k	-47.44	(-27.44)	17.95 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	—	(—)	—	—	(—)	—																																																										
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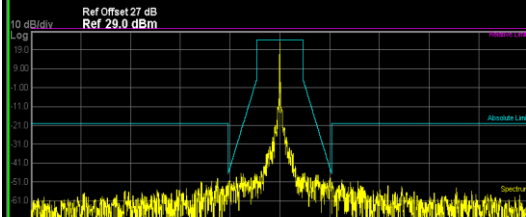
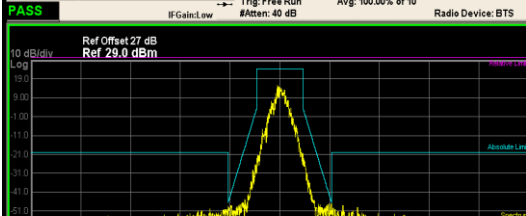
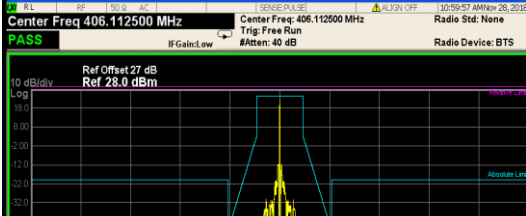
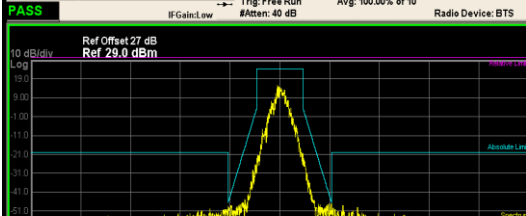
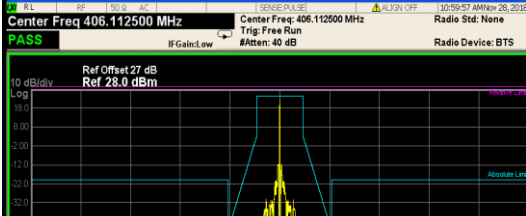
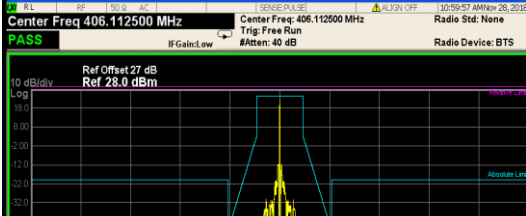
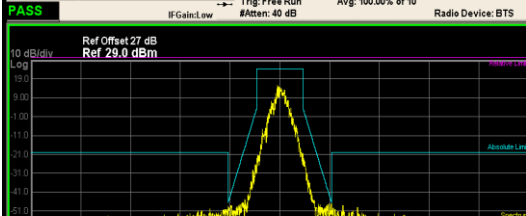
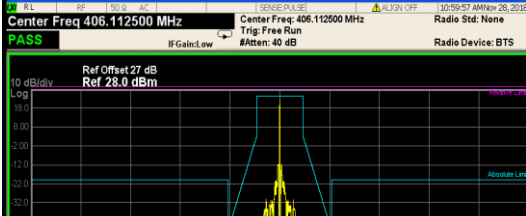
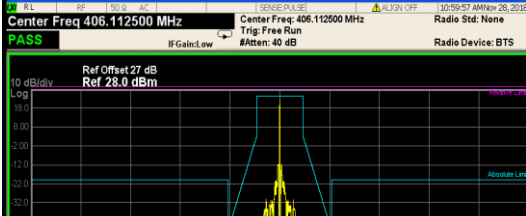
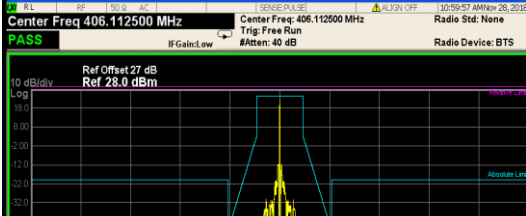


Appendix C:Emission Mask for UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:29:36 AM Nov 28, 2018 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low IF Atten: 40 dB Ref Offset 27 dB Ref 32.0 dBm 10 dB/div Log  Center 470 MHz Span 120 kHz Total Power Ref 29.65 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>18.10</td><td>(-10.01)</td><td>0.0</td><td>19.77</td><td>(-8.35)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.86</td><td>(-1.63)</td><td>-12.35 k</td><td>-46.51</td><td>(-5.36)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.14</td><td>(-25.14)</td><td>-12.75 k</td><td>-43.40</td><td>(-23.40)</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 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 > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.10	(-10.01)	0.0	19.77	(-8.35)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.86	(-1.63)	-12.35 k	-46.51	(-5.36)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.14	(-25.14)	-12.75 k	-43.40	(-23.40)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNL	4FSK	CH _{L1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:05:06 AM Nov 28, 2018 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low IF Atten: 40 dB Ref Offset 27 dB Ref 31.0 dBm 10 dB/div Log  Center 400 MHz Span 120 kHz Total Power Ref 25.04 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>24.99</td><td>(-1.52)</td><td>0.0</td><td>24.99</td><td>(-1.52)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.37</td><td>(-3.98)</td><td>-12.15 k</td><td>-45.53</td><td>(-3.15)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.40</td><td>(-27.40)</td><td>-16.90 k</td><td>-47.21</td><td>(-27.21)</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 400.012500 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	24.99	(-1.52)	0.0	24.99	(-1.52)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.37	(-3.98)	-12.15 k	-45.53	(-3.15)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.40	(-27.40)	-16.90 k	-47.21	(-27.21)	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)																																																										
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TX-DNL	4FSK	CH _{L1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:05:47 AM Nov 28, 2018 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low IF Atten: 40 dB Ref Offset 27 dB Ref 31.0 dBm 10 dB/div Log  Center 400 MHz Span 120 kHz Total Power Ref 28.18 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>17.03</td><td>(-9.48)</td><td>-50.00</td><td>16.82</td><td>(-9.69)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.37</td><td>(-4.17)</td><td>-12.40 k</td><td>-46.90</td><td>(-3.43)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.39</td><td>(-26.39)</td><td>-12.70 k</td><td>-46.42</td><td>(-26.42)</td><td>16.80 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 <Temp.png> saved STATUS Frequency Center Freq 400.012500 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	17.03	(-9.48)	-50.00	16.82	(-9.69)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.37	(-4.17)	-12.40 k	-46.90	(-3.43)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.39	(-26.39)	-12.70 k	-46.42	(-26.42)	16.80 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 > dBm	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-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 27 dB Ref 29.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 23.54 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>22.72</td><td>(-1.87)</td><td>0.0</td><td>23.08</td><td>(-1.51)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-50.83</td><td>(-6.17)</td><td>-12.20 k</td><td>-48.88</td><td>(-3.85)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-49.04</td><td>(-29.04)</td><td>-14.95 k</td><td>-49.95</td><td>(-29.95)</td><td>15.00 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 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - 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5.625 kHz	12.50 kHz	100.0 Hz	-48.51	(-1.86)	-12.50 k	-48.93	(-0.09)	12.50 k																																																																																																																																																																																																
12.50 kHz	60.00 kHz	100.0 Hz	-49.73	(-29.73)	-16.70 k	-48.03	(-28.03)	15.35 k																																																																																																																																																																																																
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
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TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 27 dB Ref 28.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 23.00 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>22.78</td><td>(-1.67)</td><td>0.0</td><td>22.78</td><td>(-1.67)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-50.83</td><td>(-7.49)</td><td>-12.00 k</td><td>-50.55</td><td>(-7.20)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-49.24</td><td>(-29.24)</td><td>-13.60 k</td><td>-48.87</td><td>(-28.87)</td><td>13.10 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></tbody></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.78	(-1.67)	0.0	22.78	(-1.67)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-50.83	(-7.49)	-12.00 k	-50.55	(-7.20)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-49.24	(-29.24)	-13.60 k	-48.87	(-28.87)	13.10 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	—	(—)	—	—	(—)	—																																																																																																																																						
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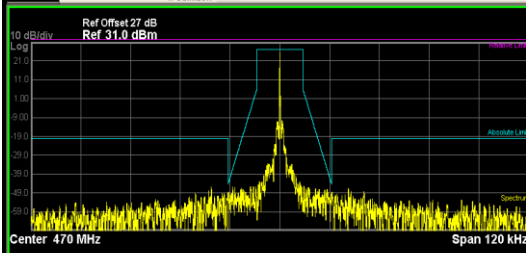
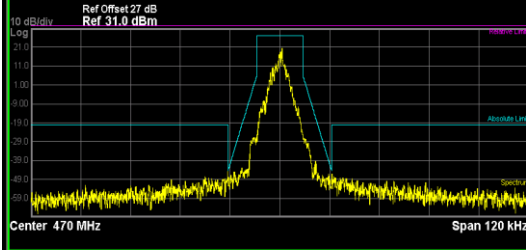
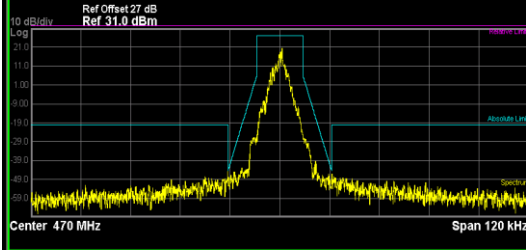
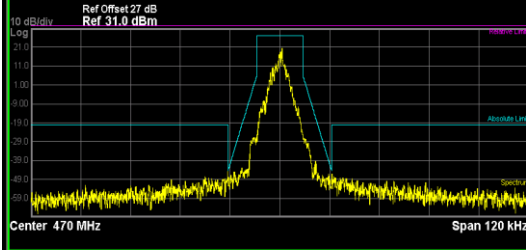


Appendix C:Emission Mask for UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:00:40 AM Nov 28, 2018 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 #Att: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 28.0 dBm 10 dB/div Log 16.0 12.0 8.0 4.0 0.0 -4.0 -8.0 -12.0 -16.0 -20.0 -24.0 -28.0 -32.0 -36.0 -40.0 -44.0 -48.0 -52.0 -56.0 -60.0 Marker 1 Marker 2 Marker 3 Marker 4 Marker 5 Marker 6 Marker 7 Marker 8 Marker 9 Marker 10 Marker 11 Marker 12 Marker 13 Marker 14 Marker 15 Marker 16 Marker 17 Marker 18 Marker 19 Marker 20 Center 406.1 MHz Span 120 kHz Total Power Ref 25.53 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>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>14.33</td><td>(-10.13)</td><td>-50.00</td><td>15.77</td><td>(-8.68)</td><td>100.0</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-51.16</td><td>(-6.73)</td><td>-12.15 k</td><td>-49.96</td><td>(-3.71)</td><td>12.40 k</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.71</td><td>(-27.71)</td><td>-13.85 k</td><td>-49.24</td><td>(-29.24)</td><td>15.35 k</td><td>15.35 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><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><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><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 406.112500 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	14.33	(-10.13)	-50.00	15.77	(-8.68)	100.0	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-51.16	(-6.73)	-12.15 k	-49.96	(-3.71)	12.40 k	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.71	(-27.71)	-13.85 k	-49.24	(-29.24)	15.35 k	15.35 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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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:02:47 AM Nov 28, 2018 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 #Att: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 24.0 dBm 10 dB/div Log 14.0 10.0 6.0 2.0 -2.0 -6.0 -10.0 -14.0 -18.0 -22.0 -26.0 -30.0 -34.0 -38.0 -42.0 -46.0 -50.0 -54.0 -58.0 -62.0 Marker 1 Marker 2 Marker 3 Marker 4 Marker 5 Marker 6 Marker 7 Marker 8 Marker 9 Marker 10 Marker 11 Marker 12 Marker 13 Marker 14 Marker 15 Marker 16 Marker 17 Marker 18 Marker 19 Marker 20 Center 438 MHz Span 120 kHz Total Power Ref 18.68 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>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>18.81</td><td>(-0.74)</td><td>0.0</td><td>18.81</td><td>(-0.74)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-59.36</td><td>(7.47)</td><td>-12.50 k</td><td>-54.40</td><td>(-3.96)</td><td>12.30 k</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-53.36</td><td>(-33.36)</td><td>-12.60 k</td><td>-53.69</td><td>(-33.69)</td><td>34.05 k</td><td>34.05 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><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><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><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 >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.81	(-0.74)	0.0	18.81	(-0.74)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-59.36	(7.47)	-12.50 k	-54.40	(-3.96)	12.30 k	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-53.36	(-33.36)	-12.60 k	-53.69	(-33.69)	34.05 k	34.05 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	—	(—)	—	—	(—)	—	—
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 11:03:21 AM Nov 28, 2018 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 #Att: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 24.0 dBm 10 dB/div Log 14.0 10.0 6.0 2.0 -2.0 -6.0 -10.0 -14.0 -18.0 -22.0 -26.0 -30.0 -34.0 -38.0 -42.0 -46.0 -50.0 -54.0 -58.0 -62.0 Marker 1 Marker 2 Marker 3 Marker 4 Marker 5 Marker 6 Marker 7 Marker 8 Marker 9 Marker 10 Marker 11 Marker 12 Marker 13 Marker 14 Marker 15 Marker 16 Marker 17 Marker 18 Marker 19 Marker 20 Center 438 MHz Span 120 kHz Total Power Ref 22.40 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>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>9.551</td><td>(-10.00)</td><td>-200.0</td><td>12.74</td><td>(-6.81)</td><td>600.0</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-55.79</td><td>(-3.90)</td><td>-12.50 k</td><td>-53.74</td><td>(-2.22)</td><td>12.45 k</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-52.00</td><td>(-32.00)</td><td>-12.85 k</td><td>-50.52</td><td>(-30.52)</td><td>13.60 k</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><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><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><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 >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	9.551	(-10.00)	-200.0	12.74	(-6.81)	600.0	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-55.79	(-3.90)	-12.50 k	-53.74	(-2.22)	12.45 k	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-52.00	(-32.00)	-12.85 k	-50.52	(-30.52)	13.60 k	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 for UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																
TX-DNL	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF500ACSENSE PULSEALIGN OFF10:55:00 AM Nov 26, 2018 Center Freq 469.987500 MHzCenter Freq: 469.987500 MHzRadio Std: None PASSIF Gain: Low#Atten: 40 dBTrig: Free RunRadio Device: BTS Ref Offset 27 dB Ref 31.0 dBm  Center 470 MHzSpan 120 kHz Total Power Ref25.98 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>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>25.62</td><td>(-1.38)</td><td>0.0</td><td>25.62</td><td>(-1.38)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.61</td><td>(-5.26)</td><td>-12.35 k</td><td>-48.78</td><td>(-5.70)</td><td>12.45 k</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.70</td><td>(-25.70)</td><td>-16.50 k</td><td>-46.42</td><td>(-26.42)</td><td>16.55 k</td><td>16.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><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><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><td>—</td></tr></tbody></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz AutoMan Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{H1}</td><td> Agilent Spectrum Analyzer - 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