

Project No.	SHT2108109704EW		
Test sample No.	YPHT21081097004	Model No.	EP8100 PLUS U1
Start test date	2021/9/22	Finish date	2021/9/28
Temperature	23.9℃	Humidity	50%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhu</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	9/26	PASS
B	Occupied Bandwidth	9/26	PASS
C	Emission Mask	9/26	PASS
D	Modulation Limit	9/26	PASS
E	Audio Frequency Response	9/26	PASS
F	Frequency Stability Test & Temperature	9/26	PASS
G	Frequency Stability Test & Voltage	9/26	PASS
H	Transmitter Frequency Behavior	9/28	PASS
I	Spurious Emission On Antenna Port	9/28	PASS

Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage(%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	37.0	5.01	4.20	19.3	±20	PASS
TX-DNH	4FSK	CH _{M1}	36.6	4.52	4.20	7.6	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.9	4.90	4.20	16.7	±20	PASS
TX-DNH	4FSK	CH _{M3}	37.0	4.98	4.20	18.6	±20	PASS
TX-DNH	4FSK	CH _H	36.8	4.82	4.20	14.8	±20	PASS
TX-DNL	4FSK	CH _L	30.2	1.06	1.20	-11.7	±20	PASS
TX-DNL	4FSK	CH _{M1}	30.0	1.00	1.20	-16.7	±20	PASS
TX-DNL	4FSK	CH _{M2}	30.0	1.01	1.20	-15.8	±20	PASS
TX-DNL	4FSK	CH _{M3}	31.4	1.37	1.20	14.2	±20	PASS
TX-DNL	4FSK	CH _H	30.2	1.04	1.20	-13.3	±20	PASS
TX-ANH	FM	CH _L	36.8	4.78	4.20	13.8	±20	PASS
TX-ANH	FM	CH _{M1}	37.0	5.00	4.20	19.0	±20	PASS
TX-ANH	FM	CH _{M2}	36.9	4.93	4.20	17.4	±20	PASS
TX-ANH	FM	CH _{M3}	36.9	4.85	4.20	15.5	±20	PASS
TX-ANH	FM	CH _H	36.7	4.70	4.20	11.9	±20	PASS
TX-ANL	FM	CH _L	30.6	1.15	1.20	-4.2	±20	PASS
TX-ANL	FM	CH _{M1}	30.4	1.09	1.20	-9.2	±20	PASS
TX-ANL	FM	CH _{M2}	30.4	1.09	1.20	-9.2	±20	PASS
TX-ANL	FM	CH _{M3}	31.2	1.32	1.20	10.0	±20	PASS
TX-ANL	FM	CH _H	30.7	1.17	1.20	-2.5	±20	PASS

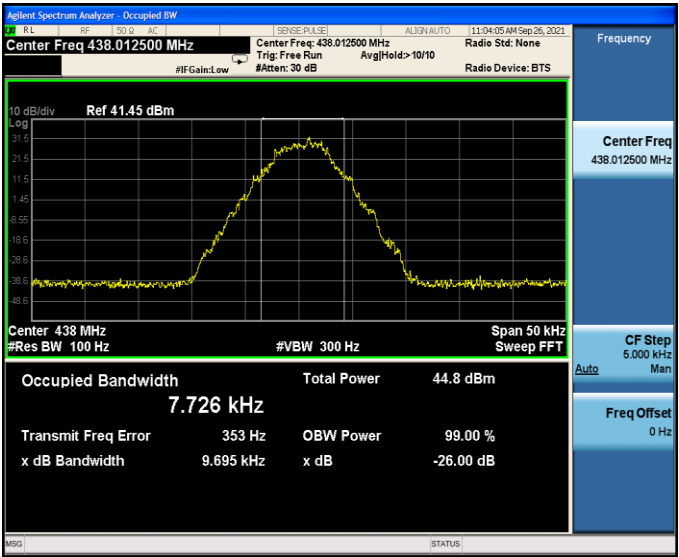
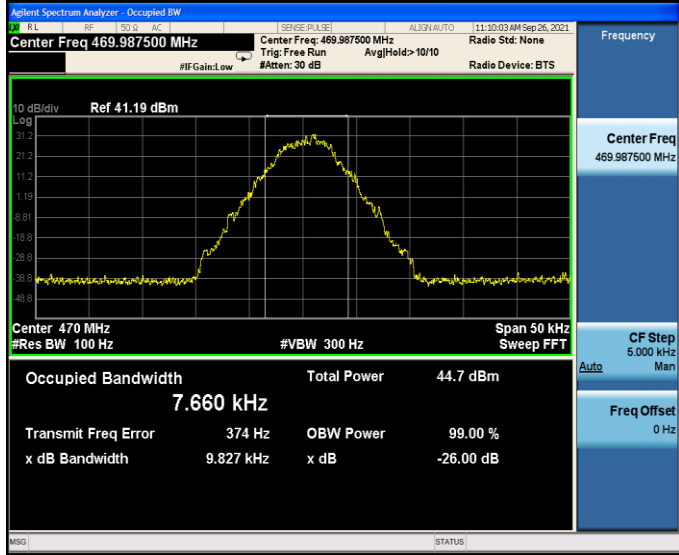
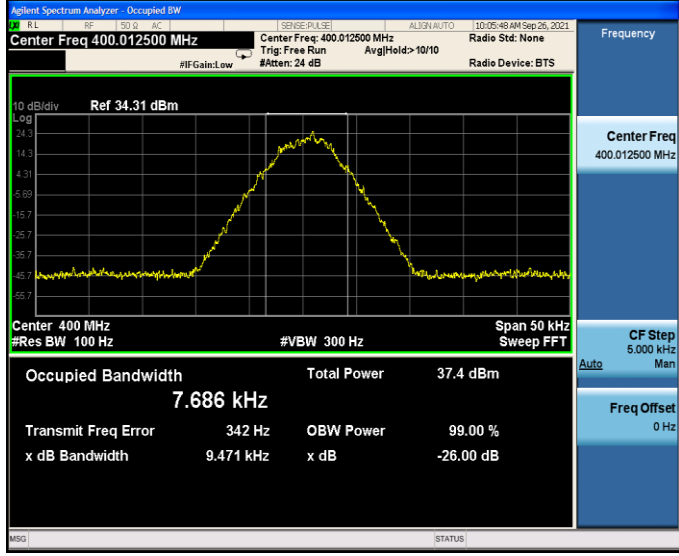
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.542	9.391	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.753	9.728	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.596	9.660	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.726	9.695	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.660	9.827	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.686	9.471	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.752	10.130	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.771	9.654	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.728	9.823	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.934	9.987	≤11.25	PASS
TX-ANH	FM	CH _L	9.980	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M1}	9.980	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M2}	9.980	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M3}	9.979	10.160	≤11.25	PASS
TX-ANH	FM	CH _H	9.978	10.160	≤11.25	PASS
TX-ANL	FM	CH _L	9.980	10.160	≤11.25	PASS
TX-ANL	FM	CH _{M1}	9.980	10.170	≤11.25	PASS
TX-ANL	FM	CH _{M2}	9.980	10.170	≤11.25	PASS
TX-ANL	FM	CH _{M3}	9.979	10.160	≤11.25	PASS
TX-ANL	FM	CH _H	9.978	10.160	≤11.25	PASS

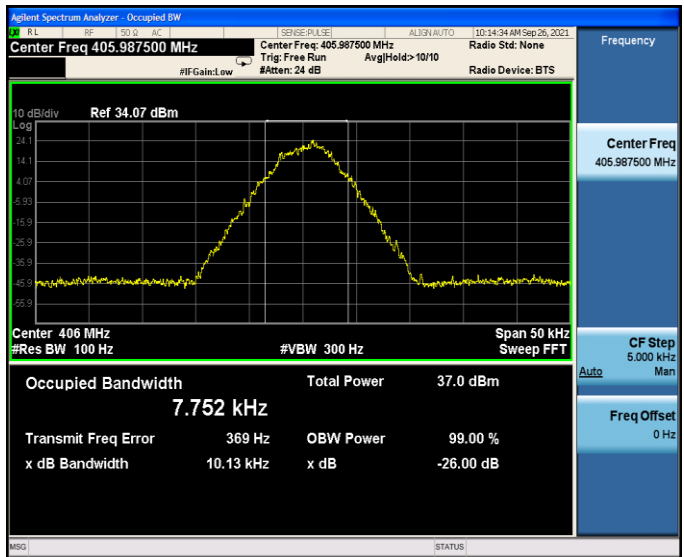
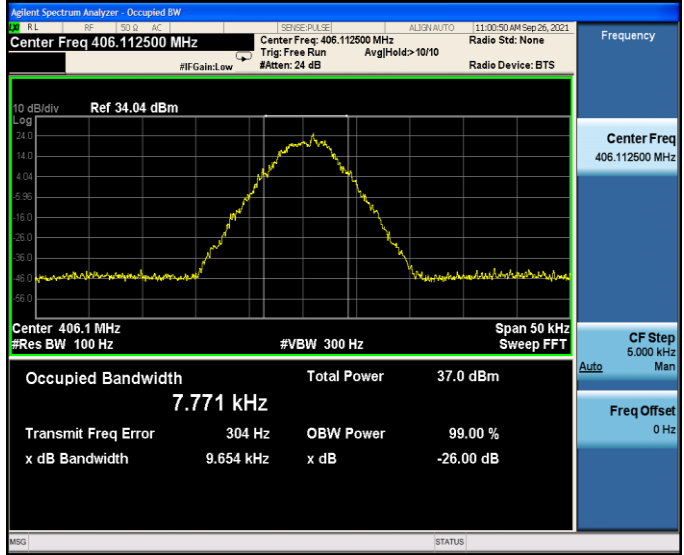
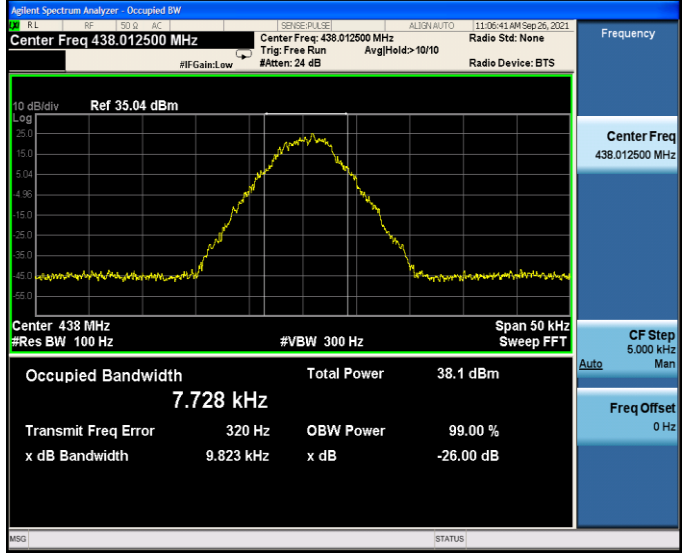
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref: 41.06 dBm Center: 400 MHz #Res BW: 100 Hz #VBW: 300 Hz Span: 50 kHz Sweep: FFT Occupied Bandwidth: 7.542 kHz Total Power: 44.1 dBm Transmit Freq Error: 351 Hz OBW Power: 99.00 % x dB Bandwidth: 9.391 kHz x dB: -26.00 dB
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref: 41.46 dBm Center: 406 MHz #Res BW: 100 Hz #VBW: 300 Hz Span: 50 kHz Sweep: FFT Occupied Bandwidth: 7.753 kHz Total Power: 44.6 dBm Transmit Freq Error: 329 Hz OBW Power: 99.00 % x dB Bandwidth: 9.728 kHz x dB: -26.00 dB
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref: 41.50 dBm Center: 406.1 MHz #Res BW: 100 Hz #VBW: 300 Hz Span: 50 kHz Sweep: FFT Occupied Bandwidth: 7.596 kHz Total Power: 44.7 dBm Transmit Freq Error: 390 Hz OBW Power: 99.00 % x dB Bandwidth: 9.660 kHz x dB: -26.00 dB

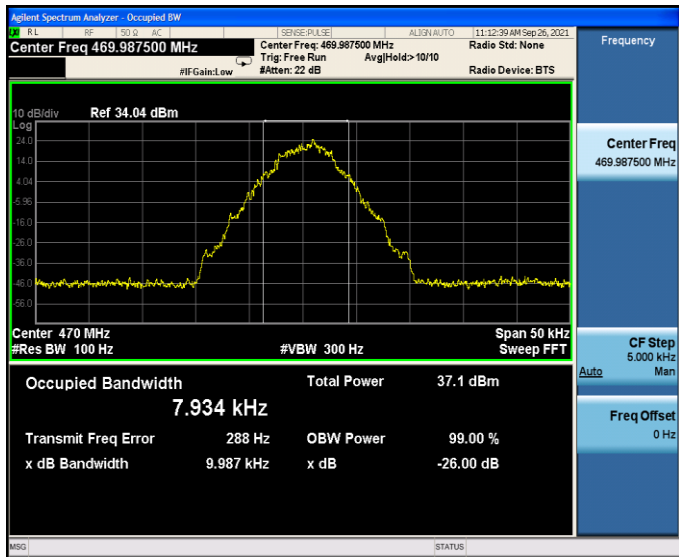
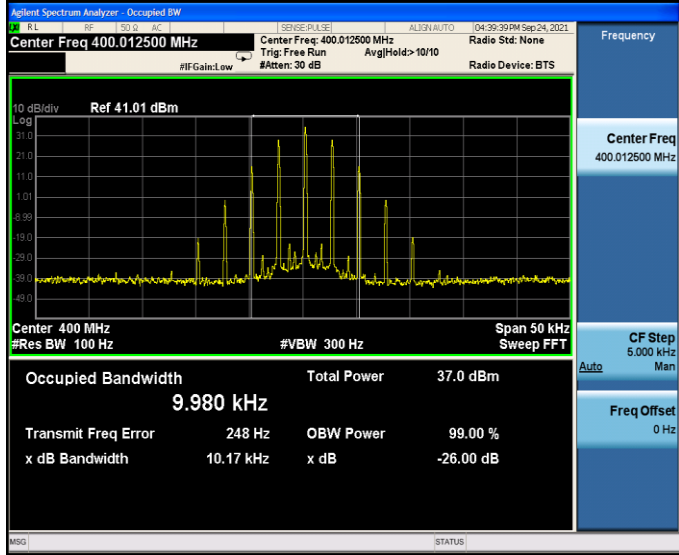
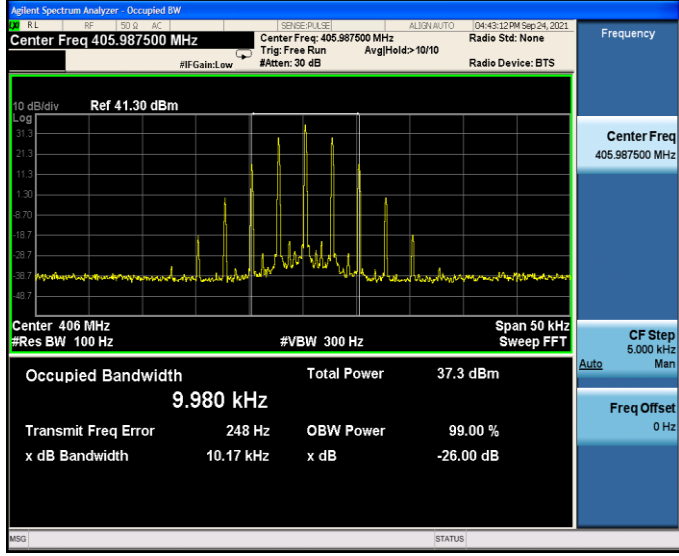
Appendix B:Occupied Bandwidth

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: 41.45 dBm Center: 438 MHz #Res BW: 100 Hz #VBW: 300 Hz Span: 50 kHz Sweep: FFT Occupied Bandwidth: 7.726 kHz Total Power: 44.8 dBm Transmit Freq Error: 353 Hz OBW Power: 99.00 % x dB Bandwidth: 9.695 kHz x dB: -26.00 dB Frequency: 438.012500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref: 41.19 dBm Center: 470 MHz #Res BW: 100 Hz #VBW: 300 Hz Span: 50 kHz Sweep: FFT Occupied Bandwidth: 7.660 kHz Total Power: 44.7 dBm Transmit Freq Error: 374 Hz OBW Power: 99.00 % x dB Bandwidth: 9.827 kHz x dB: -26.00 dB Frequency: 469.987500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz
TX-DNL	4FSK	CH _L	 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: 34.31 dBm Center: 400 MHz #Res BW: 100 Hz #VBW: 300 Hz Span: 50 kHz Sweep: FFT Occupied Bandwidth: 7.686 kHz Total Power: 37.4 dBm Transmit Freq Error: 342 Hz OBW Power: 99.00 % x dB Bandwidth: 9.471 kHz x dB: -26.00 dB Frequency: 400.012500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz

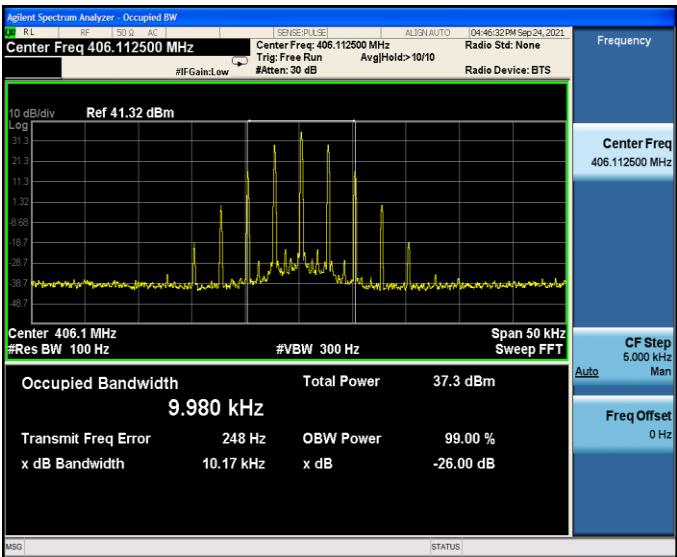
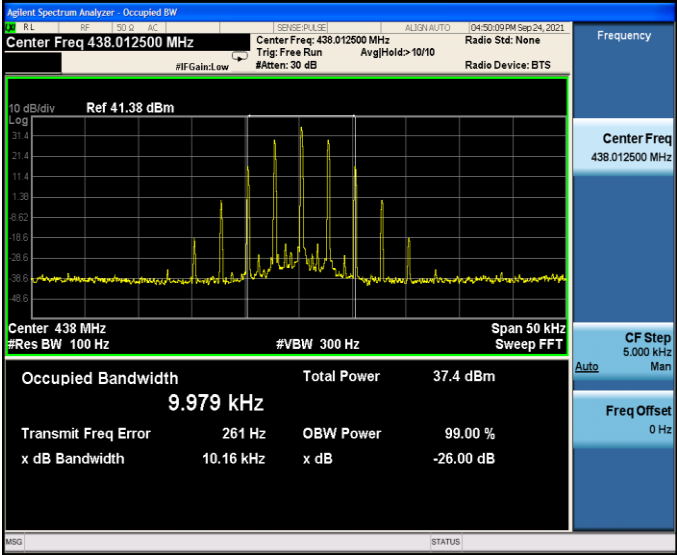
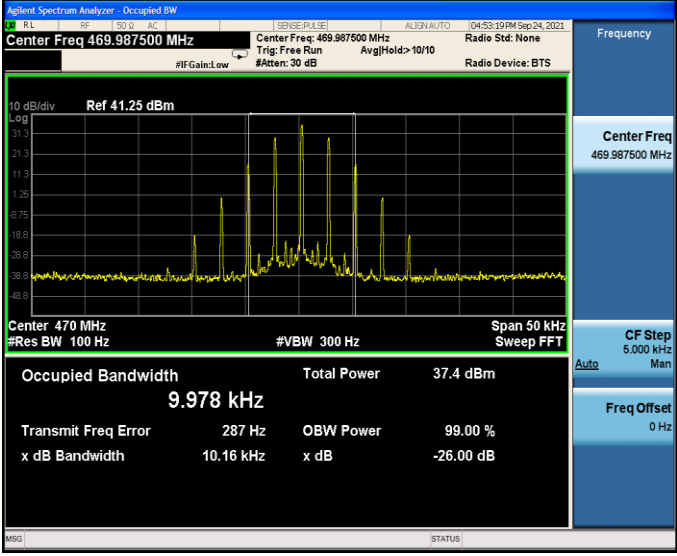
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 34.07 dBm Occupied Bandwidth 7.752 kHz Total Power 37.0 dBm Transmit Freq Error 369 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 34.04 dBm Occupied Bandwidth 7.771 kHz Total Power 37.0 dBm Transmit Freq Error 304 Hz OBW Power 99.00 % x dB Bandwidth 9.654 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 35.04 dBm Occupied Bandwidth 7.728 kHz Total Power 38.1 dBm Transmit Freq Error 320 Hz OBW Power 99.00 % x dB Bandwidth 9.823 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.04 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.934 kHz Total Power 37.1 dBm Transmit Freq Error 288 Hz OBW Power 99.00 % x dB Bandwidth 9.987 kHz x dB -26.00 dB
TX-ANH	FM	CH _L	 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 41.01 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.980 kHz Total Power 37.0 dBm Transmit Freq Error 248 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 41.30 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.980 kHz Total Power 37.3 dBm Transmit Freq Error 248 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB

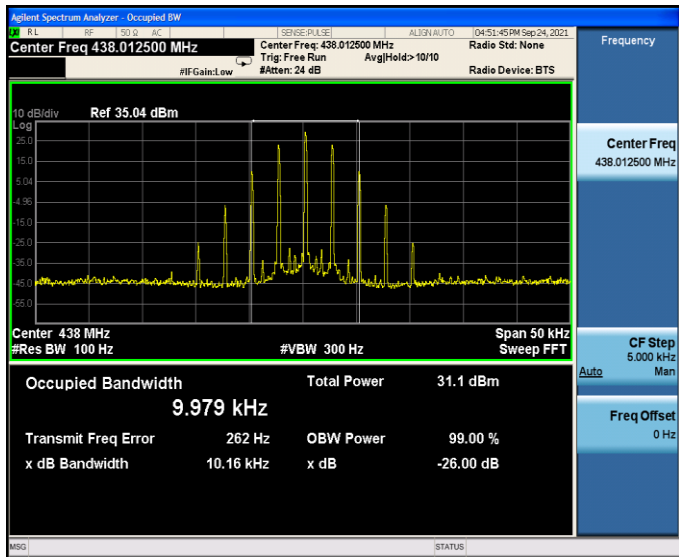
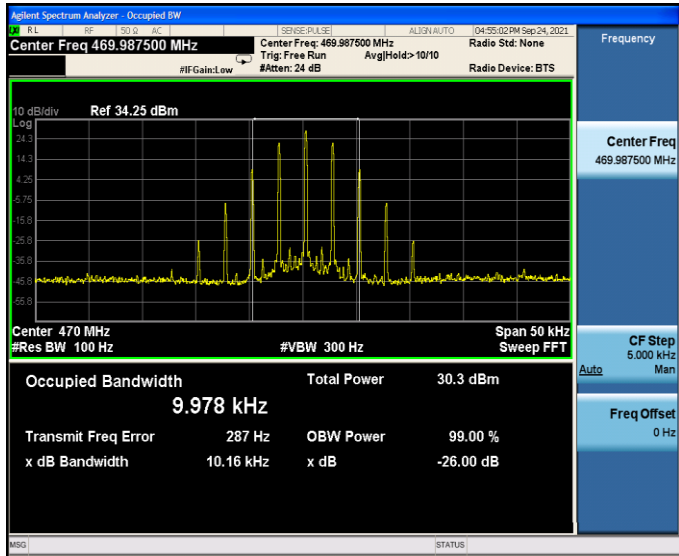
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: > 10/10 Radio Std: None Radio Device: BTS Ref 41.32 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.980 kHz Total Power 37.3 dBm Transmit Freq Error 248 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB Frequency Center Freq 406.112500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz
TX-ANH	FM	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg/Hold: > 10/10 Radio Std: None Radio Device: BTS Ref 41.38 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.979 kHz Total Power 37.4 dBm Transmit Freq Error 261 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz
TX-ANH	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: > 10/10 Radio Std: None Radio Device: BTS Ref 41.25 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.978 kHz Total Power 37.4 dBm Transmit Freq Error 287 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.27 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.980 kHz Total Power 30.2 dBm Transmit Freq Error 242 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 33.99 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.980 kHz Total Power 29.9 dBm Transmit Freq Error 247 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 33.98 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.980 kHz Total Power 29.9 dBm Transmit Freq Error 247 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{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 35.04 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.979 kHz Total Power 31.1 dBm Transmit Freq Error 262 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.25 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.978 kHz Total Power 30.3 dBm Transmit Freq Error 287 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:24:00 PM Sep 26, 2021 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 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 -18.0 -28.0 -48.0 Mask Spectrum Center 400 MHz Span 120 kHz Total Power Ref 37.11 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>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>-15.95</td><td>(-54.44)</td><td>-100.0</td><td>37.02</td><td>(-1.47)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.98</td><td>(-6.04)</td><td>-12.50 k</td><td>-37.98</td><td>(-5.04)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.71</td><td>(-15.71)</td><td>-14.50 k</td><td>-35.35</td><td>(-15.35)</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> MSG 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)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-15.95	(-54.44)	-100.0	37.02	(-1.47)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.98	(-6.04)	-12.50 k	-37.98	(-5.04)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.71	(-15.71)	-14.50 k	-35.35	(-15.35)	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)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	-15.95	(-54.44)	-100.0	37.02	(-1.47)	250.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-38.98	(-6.04)	-12.50 k	-37.98	(-5.04)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.71	(-15.71)	-14.50 k	-35.35	(-15.35)	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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:24:32 PM Sep 26, 2021 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 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 -18.0 -28.0 -48.0 Mask Spectrum Center 400 MHz Span 120 kHz Total Power Ref 41.01 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>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.13</td><td>(-12.37)</td><td>-350.0</td><td>28.30</td><td>(-10.20)</td><td>900.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.07</td><td>(-5.22)</td><td>-12.35 k</td><td>-37.34</td><td>(-4.77)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.17</td><td>(-15.17)</td><td>-13.10 k</td><td>-34.30</td><td>(-14.30)</td><td>16.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSG 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)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.13	(-12.37)	-350.0	28.30	(-10.20)	900.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.07	(-5.22)	-12.35 k	-37.34	(-4.77)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.17	(-15.17)	-13.10 k	-34.30	(-14.30)	16.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 10:09:02 AM Sep 26, 2021 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 22 dB Ref 43.0 dBm 10 dB/div Log 32.0 23.0 13.0 3.00 1.00 -7.0 -17.0 -27.0 -37.0 -47.0 Mask Spectrum Center 406 MHz Span 120 kHz Total Power Ref 37.46 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>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>-27.19</td><td>(-66.09)</td><td>-850.0</td><td>37.50</td><td>(-1.40)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.63</td><td>(-4.91)</td><td>-12.25 k</td><td>-36.95</td><td>(-4.42)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.77</td><td>(-14.77)</td><td>-14.25 k</td><td>-31.54</td><td>(-11.54)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSG 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)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-27.19	(-66.09)	-850.0	37.50	(-1.40)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.63	(-4.91)	-12.25 k	-36.95	(-4.42)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.77	(-14.77)	-14.25 k	-31.54	(-11.54)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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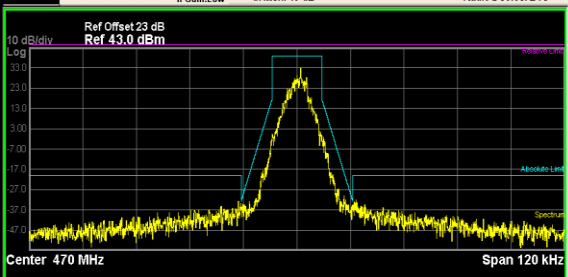
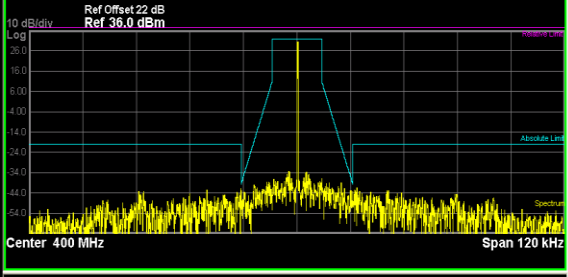
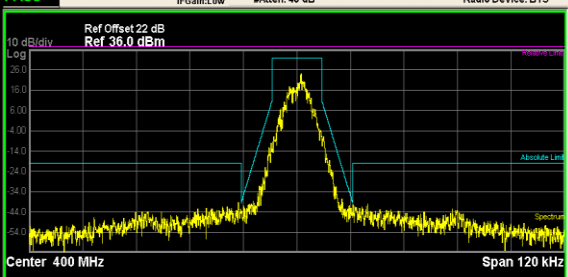
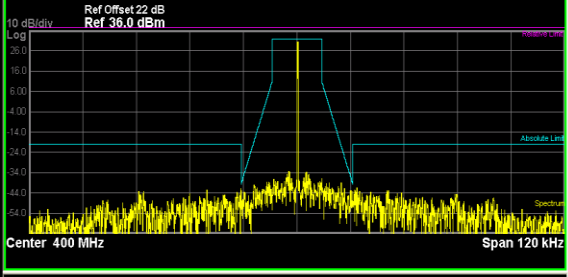
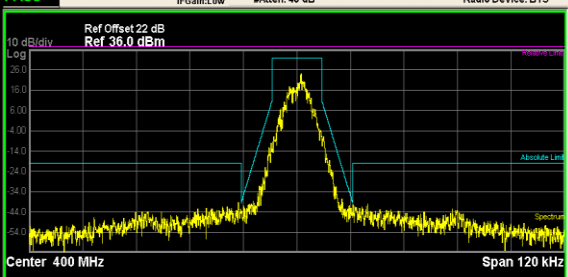
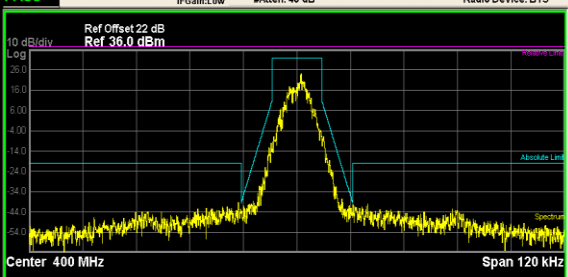
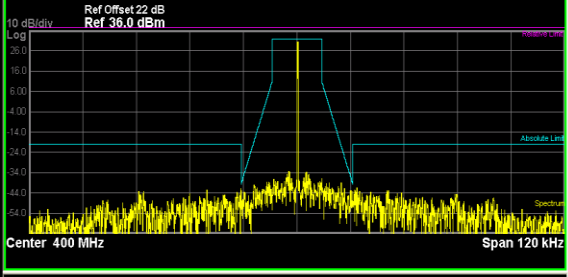
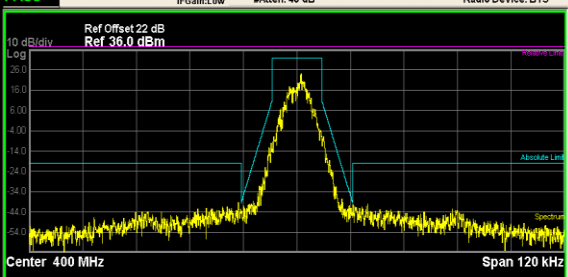
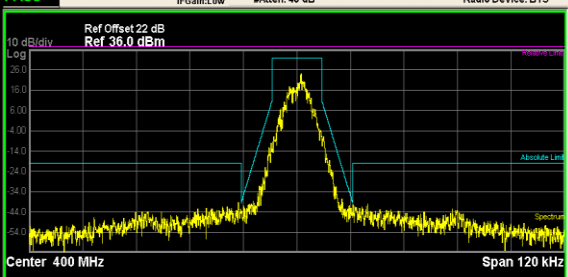
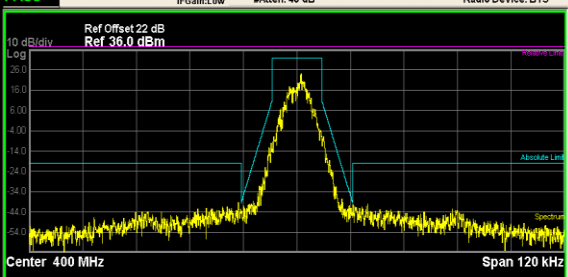
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF ISO AC SENSE PULSE ALIGN AUTO 10:12:28 AM Sep 26, 2021 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 22 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 Center 406 MHz Span 120 kHz Total Power Ref 40.71 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>26.98</td><td>(-11.92)</td><td>-600.0</td><td>28.71</td><td>(-10.19)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.96</td><td>(-4.43)</td><td>-12.50 k</td><td>-35.61</td><td>(-3.08)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.40</td><td>(-13.40)</td><td>-15.00 k</td><td>-34.96</td><td>(-14.96)</td><td>14.85 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 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	26.98	(-11.92)	-600.0	28.71	(-10.19)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.96	(-4.43)	-12.50 k	-35.61	(-3.08)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.40	(-13.40)	-15.00 k	-34.96	(-14.96)	14.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF ISO AC SENSE PULSE ALIGN AUTO 10:56:36 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 Center 406.1 MHz Span 120 kHz Total Power Ref 37.39 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>-13.99</td><td>(-52.89)</td><td>-250.0</td><td>37.40</td><td>(-1.51)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.53</td><td>(-7.00)</td><td>-11.95 k</td><td>-35.43</td><td>(-3.26)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.61</td><td>(-15.61)</td><td>-14.85 k</td><td>-35.15</td><td>(-15.15)</td><td>12.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK D.state> recalled 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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-13.99	(-52.89)	-250.0	37.40	(-1.51)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.53	(-7.00)	-11.95 k	-35.43	(-3.26)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.61	(-15.61)	-14.85 k	-35.15	(-15.15)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF ISO AC SENSE PULSE ALIGN AUTO 10:59:45 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 Center 406.1 MHz Span 120 kHz Total Power Ref 40.80 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>27.77</td><td>(-11.14)</td><td>-50.00</td><td>28.12</td><td>(-10.79)</td><td>850.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.76</td><td>(-6.86)</td><td>-12.00 k</td><td>-35.77</td><td>(-3.24)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.47</td><td>(-12.47)</td><td>-13.40 k</td><td>-33.10</td><td>(-13.10)</td><td>15.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved STATUS Frequency Center Freq 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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.77	(-11.14)	-50.00	28.12	(-10.79)	850.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.76	(-6.86)	-12.00 k	-35.77	(-3.24)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.47	(-12.47)	-13.40 k	-33.10	(-13.10)	15.90 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	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 23 dB Ref 43.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 38.76 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>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>-15.22</td><td>(-54.13)</td><td>-200.0</td><td>38.19</td><td>(-0.72)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.07</td><td>(-7.54)</td><td>-11.95 k</td><td>-36.39</td><td>(-3.86)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.66</td><td>(-12.66)</td><td>-12.95 k</td><td>-32.85</td><td>(-12.85)</td><td>13.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-15.22	(-54.13)	-200.0	38.19	(-0.72)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.07	(-7.54)	-11.95 k	-36.39	(-3.86)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.66	(-12.66)	-12.95 k	-32.85	(-12.85)	13.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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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 Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS PASS IF Gain: Low Ref Offset 23 dB Ref 43.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 41.57 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>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>28.56</td><td>(-10.35)</td><td>-600.0</td><td>28.84</td><td>(-10.07)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.63</td><td>(-3.10)</td><td>-12.50 k</td><td>-34.37</td><td>(-4.75)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.27</td><td>(-14.27)</td><td>-15.95 k</td><td>-34.20</td><td>(-14.20)</td><td>12.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.56	(-10.35)	-600.0	28.84	(-10.07)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.63	(-3.10)	-12.50 k	-34.37	(-4.75)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.27	(-14.27)	-15.95 k	-34.20	(-14.20)	12.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 23 dB Ref 43.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 38.27 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>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>-14.06</td><td>(-52.78)</td><td>-100.0</td><td>38.16</td><td>(-0.56)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.41</td><td>(-6.79)</td><td>-12.35 k</td><td>-38.06</td><td>(-6.80)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.45</td><td>(-17.45)</td><td>-21.10 k</td><td>-35.11</td><td>(-15.11)</td><td>12.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-14.06	(-52.78)	-100.0	38.16	(-0.56)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.41	(-6.79)	-12.35 k	-38.06	(-6.80)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.45	(-17.45)	-21.10 k	-35.11	(-15.11)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 11:11:24 AM Sep 26, 2021 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 23 dB Ref 43.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 41.45 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>29.11</td><td>(-9.62)</td><td>0.0</td><td>32.89</td><td>(-5.84)</td><td>900.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.79</td><td>(-3.44)</td><td>-12.45 k</td><td>-34.64</td><td>(-1.93)</td><td>12.50 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.82</td><td>(-12.82)</td><td>-13.05 k</td><td>-31.84</td><td>(-11.84)</td><td>13.20 k</td><td></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> MSO File <Temp.png> saved (STATUS) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_L</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 10:06:29 AM Sep 26, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 30.39 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>-33.34</td><td>(-65.17)</td><td>-1.700 k</td><td>30.41</td><td>(-1.42)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.65</td><td>(9.49)</td><td>-12.30 k</td><td>-42.95</td><td>(-5.88)</td><td>12.15 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.67</td><td>(-21.67)</td><td>-12.55 k</td><td>-41.46</td><td>(-21.46)</td><td>13.45 k</td><td></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> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_L</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 10:07:23 AM Sep 26, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 34.33 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>17.78</td><td>(-14.05)</td><td>-1.600 k</td><td>24.09</td><td>(-7.73)</td><td>1.000 k</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.56</td><td>(-3.95)</td><td>-12.50 k</td><td>-42.34</td><td>(-4.54)</td><td>12.25 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.52</td><td>(-19.52)</td><td>-13.00 k</td><td>-40.08</td><td>(-20.08)</td><td>15.90 k</td><td></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> MSO File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz </td></tr></td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.11	(-9.62)	0.0	32.89	(-5.84)	900.0		5.625 kHz	12.50 kHz	100.0 Hz	-35.79	(-3.44)	-12.45 k	-34.64	(-1.93)	12.50 k		12.50 kHz	60.00 kHz	100.0 Hz	-32.82	(-12.82)	-13.05 k	-31.84	(-11.84)	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	—	(—)	—	—	(—)	—		TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - 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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 10:07:23 AM Sep 26, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 34.33 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>17.78</td><td>(-14.05)</td><td>-1.600 k</td><td>24.09</td><td>(-7.73)</td><td>1.000 k</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.56</td><td>(-3.95)</td><td>-12.50 k</td><td>-42.34</td><td>(-4.54)</td><td>12.25 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.52</td><td>(-19.52)</td><td>-13.00 k</td><td>-40.08</td><td>(-20.08)</td><td>15.90 k</td><td></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> MSO File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	17.78	(-14.05)	-1.600 k	24.09	(-7.73)	1.000 k		5.625 kHz	12.50 kHz	100.0 Hz	-43.56	(-3.95)	-12.50 k	-42.34	(-4.54)	12.25 k		12.50 kHz	60.00 kHz	100.0 Hz	-39.52	(-19.52)	-13.00 k	-40.08	(-20.08)	15.90 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 10:53:42 AM Sep 26, 2021 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 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406 MHz Span 120 kHz Total Power Ref 30.04 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 ></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>-34.73</td><td>(-66.27)</td><td>-2.650 k</td><td>30.09</td><td>(-1.45)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.57</td><td>(-5.57)</td><td>-12.10 k</td><td>-47.24</td><td>(-7.34)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.22</td><td>(-19.22)</td><td>-20.05 k</td><td>-41.81</td><td>(-21.81)</td><td>15.90 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> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 10:54:21 AM Sep 26, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406 MHz Span 120 kHz Total Power Ref 33.84 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>19.96</td><td>(-11.58)</td><td>-300.0</td><td>22.51</td><td>(-9.03)</td><td>1.750 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.32</td><td>(-1.78)</td><td>-12.45 k</td><td>-42.49</td><td>(-3.31)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.37</td><td>(-20.37)</td><td>-20.25 k</td><td>-40.52</td><td>(-20.52)</td><td>21.25 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></tbody></table> MSO File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 11:01:46 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 29.98 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>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>-25.15</td><td>(-56.68)</td><td>-50.00</td><td>30.02</td><td>(-1.51)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.55</td><td>(-4.73)</td><td>-12.35 k</td><td>-43.77</td><td>(-5.68)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.60</td><td>(-21.60)</td><td>-35.10 k</td><td>-40.10</td><td>(-20.10)</td><td>20.55 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> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz </td></tr></td></tr>	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	-34.73	(-66.27)	-2.650 k	30.09	(-1.45)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.57	(-5.57)	-12.10 k	-47.24	(-7.34)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.22	(-19.22)	-20.05 k	-41.81	(-21.81)	15.90 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-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 10:54:21 AM Sep 26, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406 MHz Span 120 kHz Total Power Ref 33.84 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>19.96</td><td>(-11.58)</td><td>-300.0</td><td>22.51</td><td>(-9.03)</td><td>1.750 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.32</td><td>(-1.78)</td><td>-12.45 k</td><td>-42.49</td><td>(-3.31)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.37</td><td>(-20.37)</td><td>-20.25 k</td><td>-40.52</td><td>(-20.52)</td><td>21.25 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></tbody></table> MSO File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 11:01:46 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 29.98 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>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>-25.15</td><td>(-56.68)</td><td>-50.00</td><td>30.02</td><td>(-1.51)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.55</td><td>(-4.73)</td><td>-12.35 k</td><td>-43.77</td><td>(-5.68)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.60</td><td>(-21.60)</td><td>-35.10 k</td><td>-40.10</td><td>(-20.10)</td><td>20.55 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> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz </td></tr>	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	19.96	(-11.58)	-300.0	22.51	(-9.03)	1.750 k	5.625 kHz	12.50 kHz	100.0 Hz	-41.32	(-1.78)	-12.45 k	-42.49	(-3.31)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.37	(-20.37)	-20.25 k	-40.52	(-20.52)	21.25 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	—	(—)	—	—	(—)	—	TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 11:01:46 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 29.98 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>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>-25.15</td><td>(-56.68)</td><td>-50.00</td><td>30.02</td><td>(-1.51)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.55</td><td>(-4.73)</td><td>-12.35 k</td><td>-43.77</td><td>(-5.68)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.60</td><td>(-21.60)</td><td>-35.10 k</td><td>-40.10</td><td>(-20.10)</td><td>20.55 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> MSO File <MASK D.state> recalled (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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-25.15	(-56.68)	-50.00	30.02	(-1.51)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.55	(-4.73)	-12.35 k	-43.77	(-5.68)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.60	(-21.60)	-35.10 k	-40.10	(-20.10)	20.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 10:54:21 AM Sep 26, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406 MHz Span 120 kHz Total Power Ref 33.84 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>19.96</td><td>(-11.58)</td><td>-300.0</td><td>22.51</td><td>(-9.03)</td><td>1.750 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.32</td><td>(-1.78)</td><td>-12.45 k</td><td>-42.49</td><td>(-3.31)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.37</td><td>(-20.37)</td><td>-20.25 k</td><td>-40.52</td><td>(-20.52)</td><td>21.25 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></tbody></table> MSO File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 11:01:46 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 29.98 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>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>-25.15</td><td>(-56.68)</td><td>-50.00</td><td>30.02</td><td>(-1.51)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.55</td><td>(-4.73)</td><td>-12.35 k</td><td>-43.77</td><td>(-5.68)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.60</td><td>(-21.60)</td><td>-35.10 k</td><td>-40.10</td><td>(-20.10)</td><td>20.55 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> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz </td></tr>	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	19.96	(-11.58)	-300.0	22.51	(-9.03)	1.750 k	5.625 kHz	12.50 kHz	100.0 Hz	-41.32	(-1.78)	-12.45 k	-42.49	(-3.31)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.37	(-20.37)	-20.25 k	-40.52	(-20.52)	21.25 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	—	(—)	—	—	(—)	—	TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 11:01:46 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 29.98 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>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>-25.15</td><td>(-56.68)</td><td>-50.00</td><td>30.02</td><td>(-1.51)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.55</td><td>(-4.73)</td><td>-12.35 k</td><td>-43.77</td><td>(-5.68)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.60</td><td>(-21.60)</td><td>-35.10 k</td><td>-40.10</td><td>(-20.10)</td><td>20.55 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> MSO File <MASK D.state> recalled (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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-25.15	(-56.68)	-50.00	30.02	(-1.51)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.55	(-4.73)	-12.35 k	-43.77	(-5.68)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.60	(-21.60)	-35.10 k	-40.10	(-20.10)	20.55 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

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE:PLUSE ALIGN:AUTO 11:02:25 AM Sep 26, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 32.86 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 ></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>20.76</td><td>(-10.77)</td><td>-100.0</td><td>20.47</td><td>(-11.06)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.27</td><td>(-6.36)</td><td>-11.95 k</td><td>-41.09</td><td>(-2.63)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.07</td><td>(-21.07)</td><td>-14.45 k</td><td>-40.96</td><td>(-20.96)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.76	(-10.77)	-100.0	20.47	(-11.06)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.27	(-6.36)	-11.95 k	-41.09	(-2.63)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.07	(-21.07)	-14.45 k	-40.96	(-20.96)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE:PLUSE ALIGN:AUTO 11:07:26 AM Sep 26, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 13.0 33.0 53.0 Center 438 MHz Span 120 kHz Total Power Ref 32.27 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>-22.05</td><td>(-54.55)</td><td>-50.00</td><td>31.68</td><td>(-0.83)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.34</td><td>(-7.04)</td><td>-11.45 k</td><td>-42.65</td><td>(-4.80)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.86</td><td>(-21.86)</td><td>-12.95 k</td><td>-39.76</td><td>(-19.76)</td><td>15.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <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	-22.05	(-54.55)	-50.00	31.68	(-0.83)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.34	(-7.04)	-11.45 k	-42.65	(-4.80)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.86	(-21.86)	-12.95 k	-39.76	(-19.76)	15.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE:PLUSE ALIGN:AUTO 11:09:02 AM Sep 26, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 13.0 33.0 53.0 Center 438 MHz Span 120 kHz Total Power Ref 34.26 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>21.13</td><td>(-11.37)</td><td>-200.0</td><td>22.12</td><td>(-10.39)</td><td>1.150 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.68</td><td>(-3.57)</td><td>-12.25 k</td><td>-39.91</td><td>(-0.98)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.31</td><td>(-21.31)</td><td>-15.85 k</td><td>-39.16</td><td>(-19.16)</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 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	21.13	(-11.37)	-200.0	22.12	(-10.39)	1.150 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.68	(-3.57)	-12.25 k	-39.91	(-0.98)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.31	(-21.31)	-15.85 k	-39.16	(-19.16)	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

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 kHz AC SENSE PULSE ALIGN AUTO 11:13:17 AM Sep 26, 2021 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 23 dB Ref 36.0 dBm 10 dB/div Log 26.0 6.00 16.0 24.0 34.0 44.0 54.0 Center 470 MHz Span 120 kHz Total Power Ref 30.93 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 ></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>-22.14</td><td>(-53.66)</td><td>-150.0</td><td>30.82</td><td>(-0.70)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.30</td><td>(-5.29)</td><td>-12.10 k</td><td>-42.51</td><td>(-7.68)</td><td>11.80 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.30</td><td>(-20.30)</td><td>-14.00 k</td><td>-38.39</td><td>(-18.39)</td><td>14.55 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> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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Spectrum Emission Mask RL RF 50 kHz AC SENSE PULSE ALIGN AUTO 04:40:11 PM Sep 24, 2021 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 22 dB Ref 42.0 dBm 10 dB/div Log 22.0 2.00 12.00 18.00 26.00 36.00 46.00 Center 400 MHz Span 120 kHz Total Power Ref 37.10 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 ></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>-28.18</td><td>(-66.65)</td><td>-150.0</td><td>37.11</td><td>(-1.36)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.49</td><td>(-3.61)</td><td>-12.35 k</td><td>-35.11</td><td>(-3.23)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.64</td><td>(-15.64)</td><td>-13.90 k</td><td>-35.36</td><td>(-15.36)</td><td>14.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz </td></tr></td></tr>	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	-22.14	(-53.66)	-150.0	30.82	(-0.70)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.30	(-5.29)	-12.10 k	-42.51	(-7.68)	11.80 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.30	(-20.30)	-14.00 k	-38.39	(-18.39)	14.55 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	—	(—)	—	—	(—)	—	TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - 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Spectrum Emission Mask RL RF 50 kHz AC SENSE PULSE ALIGN AUTO 04:40:11 PM Sep 24, 2021 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 22 dB Ref 42.0 dBm 10 dB/div Log 22.0 2.00 12.00 18.00 26.00 36.00 46.00 Center 400 MHz Span 120 kHz Total Power Ref 37.10 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 ></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>-28.18</td><td>(-66.65)</td><td>-150.0</td><td>37.11</td><td>(-1.36)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.49</td><td>(-3.61)</td><td>-12.35 k</td><td>-35.11</td><td>(-3.23)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.64</td><td>(-15.64)</td><td>-13.90 k</td><td>-35.36</td><td>(-15.36)</td><td>14.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz </td></tr>	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	19.92	(-11.59)	-200.0	21.86	(-9.66)	950.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.31	(-3.85)	-12.30 k	-43.19	(-4.00)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.59	(-21.59)	-12.80 k	-39.10	(-19.10)	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	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 kHz AC SENSE PULSE ALIGN AUTO 04:40:11 PM Sep 24, 2021 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 22 dB Ref 42.0 dBm 10 dB/div Log 22.0 2.00 12.00 18.00 26.00 36.00 46.00 Center 400 MHz Span 120 kHz Total Power Ref 37.10 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 ></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>-28.18</td><td>(-66.65)</td><td>-150.0</td><td>37.11</td><td>(-1.36)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.49</td><td>(-3.61)</td><td>-12.35 k</td><td>-35.11</td><td>(-3.23)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.64</td><td>(-15.64)</td><td>-13.90 k</td><td>-35.36</td><td>(-15.36)</td><td>14.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO 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	-28.18	(-66.65)	-150.0	37.11	(-1.36)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.49	(-3.61)	-12.35 k	-35.11	(-3.23)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.64	(-15.64)	-13.90 k	-35.36	(-15.36)	14.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																			
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE:PULSE ALIGN:AUTO 04:40:33 PM Sep 24, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 30.0 22.0 14.0 6.00 -2.00 -8.00 -14.0 -20.0 -26.0 -32.0 -38.0 -44.0 Mask Absolute Limit Spectrum Center 400 MHz Span 120 kHz Total Power Ref 37.10 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 ></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>29.10</td><td>(-9.37)</td><td>-2.250 k</td><td>35.36</td><td>(-3.11)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.14</td><td>(-0.62)</td><td>-12.30 k</td><td>-34.47</td><td>(-1.50)</td><td>12.50 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.63</td><td>(-14.63)</td><td>-12.85 k</td><td>-33.24</td><td>(-13.24)</td><td>13.55 k</td><td></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> MSO File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.10	(-9.37)	-2.250 k	35.36	(-3.11)	250.0		5.625 kHz	12.50 kHz	100.0 Hz	-32.14	(-0.62)	-12.30 k	-34.47	(-1.50)	12.50 k		12.50 kHz	60.00 kHz	100.0 Hz	-34.63	(-14.63)	-12.85 k	-33.24	(-13.24)	13.55 k		4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—		8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—		12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE:PULSE ALIGN:AUTO 04:43:44 PM Sep 24, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 43.0 dBm 10 dB/div Log 30.0 23.0 16.0 9.00 3.00 -3.00 -7.00 -13.0 -17.0 -23.0 -27.0 -33.0 -37.0 -43.0 Mask Absolute Limit Spectrum Center 406 MHz Span 120 kHz Total Power Ref 37.37 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>-25.43</td><td>(-64.23)</td><td>-2.350 k</td><td>37.39</td><td>(-1.41)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.83</td><td>(-5.01)</td><td>-12.25 k</td><td>-37.86</td><td>(-5.74)</td><td>12.40 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.46</td><td>(-16.46)</td><td>-15.05 k</td><td>-34.04</td><td>(-14.04)</td><td>12.55 k</td><td></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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-25.43	(-64.23)	-2.350 k	37.39	(-1.41)	250.0		5.625 kHz	12.50 kHz	100.0 Hz	-35.83	(-5.01)	-12.25 k	-37.86	(-5.74)	12.40 k		12.50 kHz	60.00 kHz	100.0 Hz	-36.46	(-16.46)	-15.05 k	-34.04	(-14.04)	12.55 k		4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—		8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—		12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE:PULSE ALIGN:AUTO 04:44:06 PM Sep 24, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 43.0 dBm 10 dB/div Log 30.0 23.0 16.0 9.00 3.00 -3.00 -7.00 -13.0 -17.0 -23.0 -27.0 -33.0 -37.0 -43.0 Mask Absolute Limit Spectrum Center 406 MHz Span 120 kHz Total Power Ref 37.37 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>29.37</td><td>(-9.43)</td><td>-2.250 k</td><td>35.63</td><td>(-3.17)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.35</td><td>(-1.53)</td><td>-12.25 k</td><td>-0.079</td><td>(-1.97)</td><td>7.750 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.90</td><td>(-13.90)</td><td>-13.60 k</td><td>-34.39</td><td>(-14.39)</td><td>13.20 k</td><td></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> MSO File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.37	(-9.43)	-2.250 k	35.63	(-3.17)	250.0		5.625 kHz	12.50 kHz	100.0 Hz	-32.35	(-1.53)	-12.25 k	-0.079	(-1.97)	7.750 k		12.50 kHz	60.00 kHz	100.0 Hz	-33.90	(-13.90)	-13.60 k	-34.39	(-14.39)	13.20 k		4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—		8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—		12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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