

Project No.	SHT2103083201EW		
Test sample No.	YPHT21030832004	Model No.	AWR-D7000N
Start test date	2021/4/16	Finish date	2021/4/19
Temperature	23.1℃	Humidity	51%
Test Engineer	Zijian Li	Auditor	Xiaodong Zhao

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	4/16	PASS
B	Occupied Bandwidth	4/16	PASS
C	Emission Mask	4/16	PASS
D	Modulation Limit	4/16	PASS
E	Audio Frequency Response	4/16	PASS
F	Frequency Stability Test & Temperature	4/16	PASS
G	Frequency Stability Test & Voltage	4/16	PASS
H	Transmitter Frequency Behavior	4/19	PASS
I	Spurious Emission On Antenna Port	4/16	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	4.50	11.3	±20	PASS
TX-DNH	4FSK	CH _{M1}	37.2	5.25	4.50	16.7	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.9	4.90	4.50	8.9	±20	PASS
TX-DNH	4FSK	CH _{M3}	37.1	5.13	4.50	14.0	±20	PASS
TX-DNH	4FSK	CH _H	37.2	5.25	4.50	16.7	±20	PASS
TX-DNL	4FSK	CH _L	32.5	1.78	1.50	18.7	±20	PASS
TX-DNL	4FSK	CH _{M1}	32.0	1.58	1.50	5.3	±20	PASS
TX-DNL	4FSK	CH _{M2}	32.1	1.62	1.50	8.0	±20	PASS
TX-DNL	4FSK	CH _{M3}	31.6	1.45	1.50	-3.3	±20	PASS
TX-DNL	4FSK	CH _H	31.3	1.35	1.50	-10.0	±20	PASS
TX-ANH	FM	CH _L	36.2	4.19	4.50	-6.9	±20	PASS
TX-ANH	FM	CH _{M1}	36.5	4.45	4.50	-1.1	±20	PASS
TX-ANH	FM	CH _{M2}	36.4	4.37	4.50	-2.9	±20	PASS
TX-ANH	FM	CH _{M3}	36.7	4.68	4.50	4.0	±20	PASS
TX-ANH	FM	CH _H	36.2	4.16	4.50	-7.6	±20	PASS
TX-ANL	FM	CH _L	31.9	1.53	1.50	2.0	±20	PASS
TX-ANL	FM	CH _{M1}	31.6	1.45	1.50	-3.3	±20	PASS
TX-ANL	FM	CH _{M2}	31.8	1.51	1.50	0.7	±20	PASS
TX-ANL	FM	CH _{M3}	32.0	1.58	1.50	5.3	±20	PASS
TX-ANL	FM	CH _H	32.1	1.63	1.50	8.7	±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	7.624	9.529	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.813	9.791	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.582	9.786	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.702	9.689	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.971	9.771	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.638	9.568	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.692	10.190	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.754	9.714	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.711	9.701	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.907	9.804	≤11.25	PASS
TX-ANH	FM	CH _L	5.202	10.080	≤11.25	PASS
TX-ANH	FM	CH _{M1}	5.210	10.100	≤11.25	PASS
TX-ANH	FM	CH _{M2}	5.205	10.100	≤11.25	PASS
TX-ANH	FM	CH _{M3}	6.043	10.110	≤11.25	PASS
TX-ANH	FM	CH _H	7.569	10.130	≤11.25	PASS
TX-ANL	FM	CH _L	5.205	10.080	≤11.25	PASS
TX-ANL	FM	CH _{M1}	5.214	10.110	≤11.25	PASS
TX-ANL	FM	CH _{M2}	5.211	10.110	≤11.25	PASS
TX-ANL	FM	CH _{M3}	5.209	10.100	≤11.25	PASS
TX-ANL	FM	CH _H	7.569	10.140	≤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 41.47 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.624 kHz Total Power 43.8 dBm Transmit Freq Error 224 Hz OBW Power 99.00 % x dB Bandwidth 9.529 kHz x dB -26.00 dB Frequency 400.012500 MHz Center Freq 400.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
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 41.06 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.813 kHz Total Power 44.0 dBm Transmit Freq Error 220 Hz OBW Power 99.00 % x dB Bandwidth 9.791 kHz x dB -26.00 dB Frequency 405.987500 MHz Center Freq 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
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 41.07 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.582 kHz Total Power 44.2 dBm Transmit Freq Error 226 Hz OBW Power 99.00 % x dB Bandwidth 9.786 kHz x dB -26.00 dB Frequency 406.112500 MHz Center Freq 406.112500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

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 40.74 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.702 kHz Total Power 43.8 dBm Transmit Freq Error 246 Hz OBW Power 99.00 % x dB Bandwidth 9.689 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 7.971 kHz Total Power 44.1 dBm Transmit Freq Error 258 Hz OBW Power 99.00 % x dB Bandwidth 9.771 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 37.73 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.638 kHz Total Power 39.1 dBm Transmit Freq Error 255 Hz OBW Power 99.00 % x dB Bandwidth 9.568 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 Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 37.42 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.692 kHz Total Power 39.4 dBm Transmit Freq Error 254 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
TX-DNL	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 37.46 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.754 kHz Total Power 38.9 dBm Transmit Freq Error 228 Hz OBW Power 99.00 % x dB Bandwidth 9.714 kHz x dB -26.00 dB Frequency 406.112500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
TX-DNL	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 37.01 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.711 kHz Total Power 38.9 dBm Transmit Freq Error 239 Hz OBW Power 99.00 % x dB Bandwidth 9.701 kHz x dB -26.00 dB Frequency 438.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required

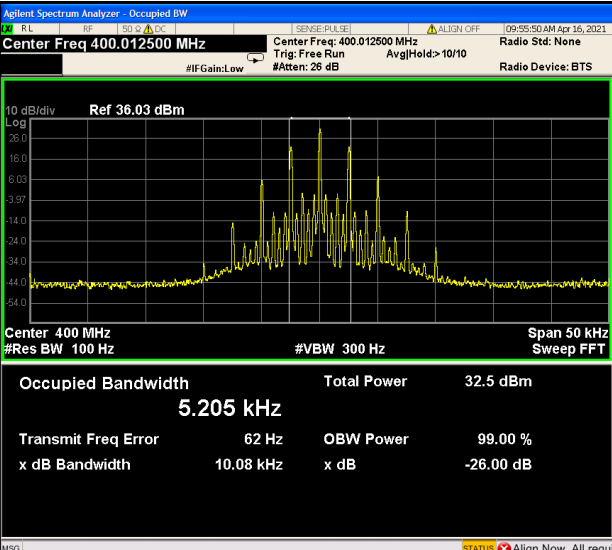
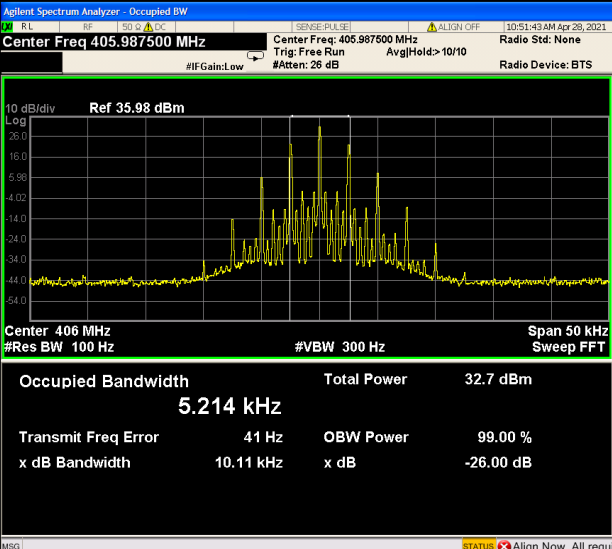
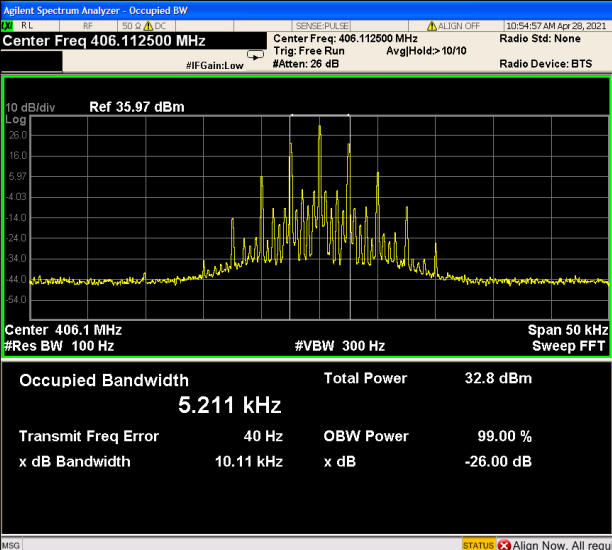
Appendix B:Occupied Bandwidth

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 #IF Gain: Low #Atten: 26 dB Ref 37.80 dBm 10 dB/div Log Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.907 kHz Total Power 40.6 dBm Transmit Freq Error 298 Hz OBW Power 99.00 % x dB Bandwidth 9.804 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
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 #IF Gain: Low #Atten: 30 dB Ref 40.39 dBm 10 dB/div Log Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.202 kHz Total Power 36.9 dBm Transmit Freq Error 65 Hz OBW Power 99.00 % x dB Bandwidth 10.08 kHz x dB -26.00 dB Frequency Center Freq 400.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
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 #IF Gain: Low #Atten: 30 dB Ref 40.78 dBm 10 dB/div Log Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.210 kHz Total Power 37.5 dBm Transmit Freq Error 41 Hz OBW Power 99.00 % x dB Bandwidth 10.10 kHz x dB -26.00 dB Frequency Center Freq 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required

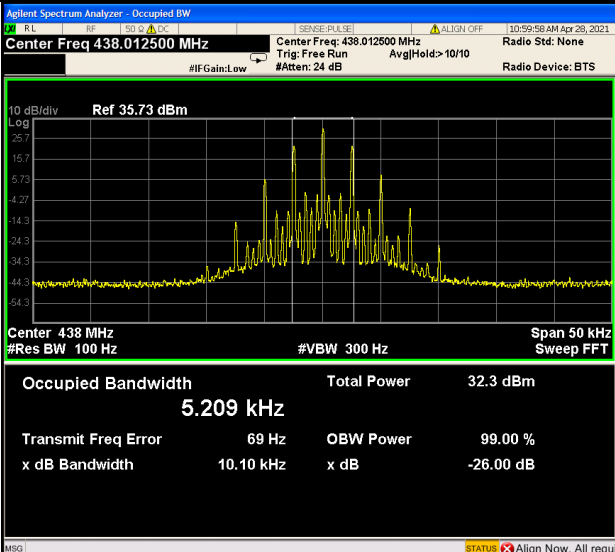
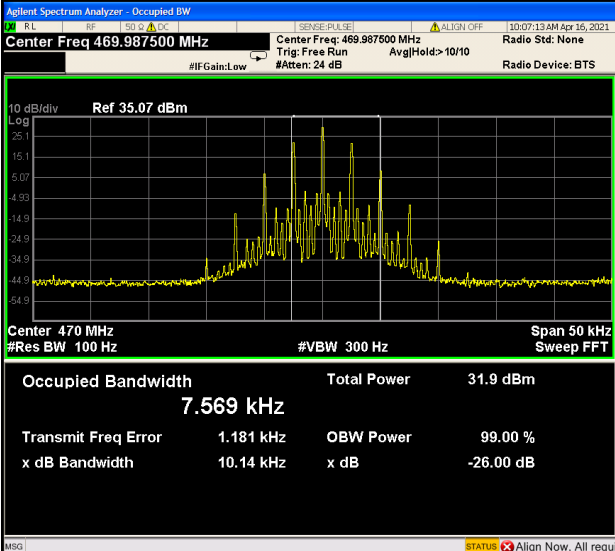
Appendix B:Occupied Bandwidth

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 40.77 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.205 kHz Total Power 37.5 dBm Transmit Freq Error 39 Hz OBW Power 99.00 % x dB Bandwidth 10.10 kHz x dB -26.00 dB Frequency 406.112500 MHz Center Freq 406.112500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
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 40.60 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 6.043 kHz Total Power 37.1 dBm Transmit Freq Error 497 Hz OBW Power 99.00 % x dB Bandwidth 10.11 kHz x dB -26.00 dB Frequency 438.012500 MHz Center Freq 438.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
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 40.19 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.569 kHz Total Power 37.0 dBm Transmit Freq Error 1.191 kHz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB Frequency 469.987500 MHz Center Freq 469.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required

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 36.03 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.205 kHz Total Power 32.5 dBm Transmit Freq Error 62 Hz OBW Power 99.00 % x dB Bandwidth 10.08 kHz x dB -26.00 dB Frequency 400.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
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 35.98 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.214 kHz Total Power 32.7 dBm Transmit Freq Error 41 Hz OBW Power 99.00 % x dB Bandwidth 10.11 kHz x dB -26.00 dB Frequency 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required
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 35.97 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.211 kHz Total Power 32.8 dBm Transmit Freq Error 40 Hz OBW Power 99.00 % x dB Bandwidth 10.11 kHz x dB -26.00 dB Frequency 406.112500 MHz CF Step 5.000 kHz Freq Offset 0 Hz Align Now, All required

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 Trig: Free Run #IF Gain: Low #Atten: 24 dB Avg/Hold: > 10/10 Radio Std: None Radio Device: BTS 10 dB/div Ref 35.73 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.209 kHz Total Power 32.3 dBm Transmit Freq Error 69 Hz OBW Power 99.00 % x dB Bandwidth 10.10 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Align Now, All required
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Trig: Free Run #IF Gain: Low #Atten: 24 dB Avg/Hold: > 10/10 Radio Std: None Radio Device: BTS 10 dB/div Ref 35.07 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.569 kHz Total Power 31.9 dBm Transmit Freq Error 1.181 kHz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Align Now, All required

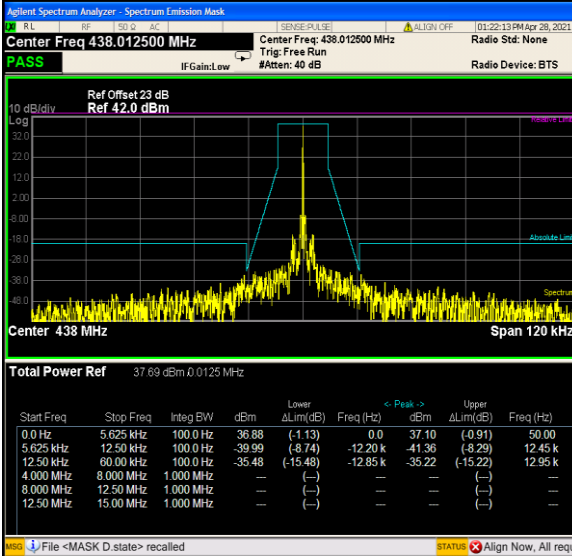
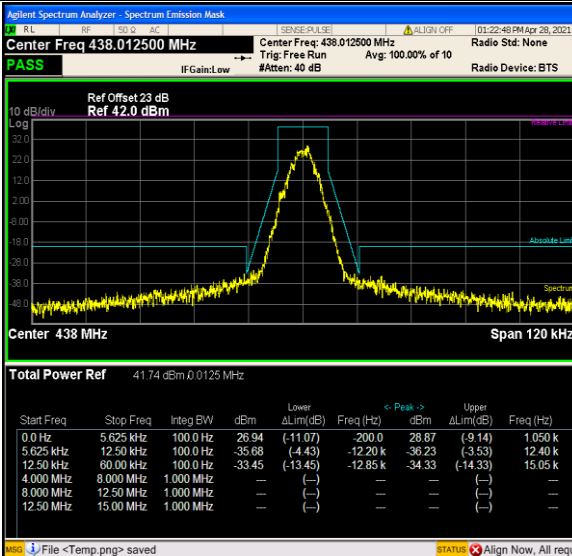
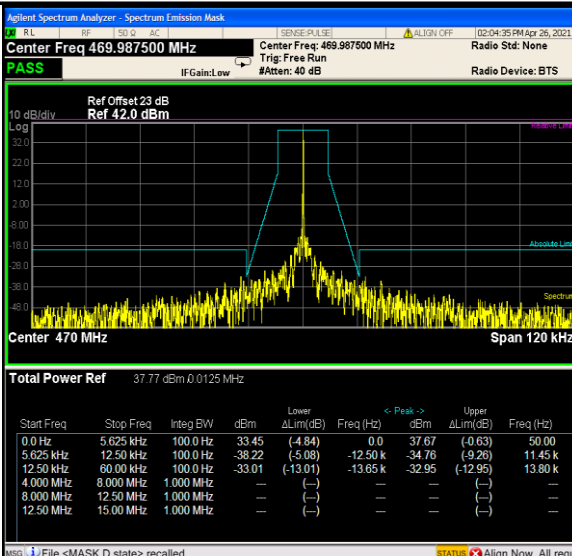
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: OFF 10:49:52 AM Apr 16, 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 Log 10 dB/div 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Insure Lim Absolute Lim Spectrum Center 400 MHz Span 120 kHz Total Power Ref 37.26 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 > 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>36.59</td><td>(-1.60)</td><td>0.0</td><td>36.80</td><td>(-1.39)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.94</td><td>(-6.61)</td><td>-12.10 k</td><td>-37.33</td><td>(-6.63)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.29</td><td>(-13.29)</td><td>-13.50 k</td><td>-32.84</td><td>(-12.84)</td><td>13.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled STATUS Align Now, All required 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	36.59	(-1.60)	0.0	36.80	(-1.39)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-36.94	(-6.61)	-12.10 k	-37.33	(-6.63)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.29	(-13.29)	-13.50 k	-32.84	(-12.84)	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	—	(—)	—	—	(—)	—
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	36.59	(-1.60)	0.0	36.80	(-1.39)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-36.94	(-6.61)	-12.10 k	-37.33	(-6.63)	12.15 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-33.29	(-13.29)	-13.50 k	-32.84	(-12.84)	13.60 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: OFF 10:50:24 AM Apr 16, 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 Log 10 dB/div 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Insure Lim Absolute Lim Spectrum Center 400 MHz Span 120 kHz Total Power Ref 39.82 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>27.03</td><td>(-11.16)</td><td>-1.400 k</td><td>31.25</td><td>(6.95)</td><td>850.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.90</td><td>(-2.38)</td><td>-12.40 k</td><td>-33.78</td><td>(-1.63)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.52</td><td>(-13.52)</td><td>-12.50 k</td><td>-32.33</td><td>(-12.33)</td><td>13.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Align Now, All required 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	27.03	(-11.16)	-1.400 k	31.25	(6.95)	850.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.90	(-2.38)	-12.40 k	-33.78	(-1.63)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.52	(-13.52)	-12.50 k	-32.33	(-12.33)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: OFF 01:16:34 PM Apr 28, 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 42.0 dBm Log 10 dB/div 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Insure Lim Absolute Lim Spectrum Center 406 MHz Span 120 kHz Total Power Ref 36.69 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>34.84</td><td>(-3.48)</td><td>0.0</td><td>36.66</td><td>(-1.66)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.23</td><td>(-8.94)</td><td>-12.25 k</td><td>-40.24</td><td>(-8.22)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.65</td><td>(-14.65)</td><td>-12.80 k</td><td>-34.41</td><td>(-14.41)</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> MSO File <MASK D.state> recalled STATUS Align Now, All required 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 > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.84	(-3.48)	0.0	36.66	(-1.66)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.23	(-8.94)	-12.25 k	-40.24	(-8.22)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.65	(-14.65)	-12.80 k	-34.41	(-14.41)	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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Appendix C:Emission Mask

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 #Atten: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 22 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 40.47 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>27.96</td><td>(-10.36)</td><td>-750.0</td><td>29.46</td><td>(-8.87)</td><td>450.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.49</td><td>(-4.38)</td><td>-12.50 k</td><td>-36.06</td><td>(-4.04)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.17</td><td>(-16.17)</td><td>-12.70 k</td><td>-33.89</td><td>(-13.89)</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>	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	27.96	(-10.36)	-750.0	29.46	(-8.87)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.49	(-4.38)	-12.50 k	-36.06	(-4.04)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.17	(-16.17)	-12.70 k	-33.89	(-13.89)	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	—	(—)	—	—	(—)	—	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																								
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TX-DNH	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 Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 22 dB Ref 42.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 36.47 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>36.15</td><td>(-1.95)</td><td>0.0</td><td>36.51</td><td>(-1.59)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.20</td><td>(-7.32)</td><td>-12.30 k</td><td>-39.50</td><td>(-6.89)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.49</td><td>(-17.49)</td><td>-18.65 k</td><td>-37.53</td><td>(-17.53)</td><td>18.75 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>	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	36.15	(-1.95)	0.0	36.51	(-1.59)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.20	(-7.32)	-12.30 k	-39.50	(-6.89)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.49	(-17.49)	-18.65 k	-37.53	(-17.53)	18.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
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TX-DNH	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 Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 22 dB Ref 42.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 40.54 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>26.48</td><td>(-11.61)</td><td>-1.100 k</td><td>29.31</td><td>(-8.78)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.45</td><td>(-3.84)</td><td>-12.40 k</td><td>-33.95</td><td>(-1.33)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.84</td><td>(-15.84)</td><td>-14.15 k</td><td>-34.70</td><td>(-14.70)</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></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.48	(-11.61)	-1.100 k	29.31	(-8.78)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.45	(-3.84)	-12.40 k	-33.95	(-1.33)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.84	(-15.84)	-14.15 k	-34.70	(-14.70)	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	—	(—)	—	—	(—)	—	Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
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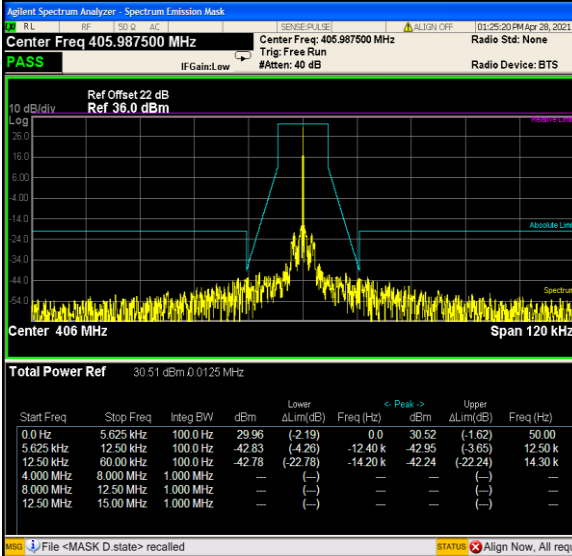
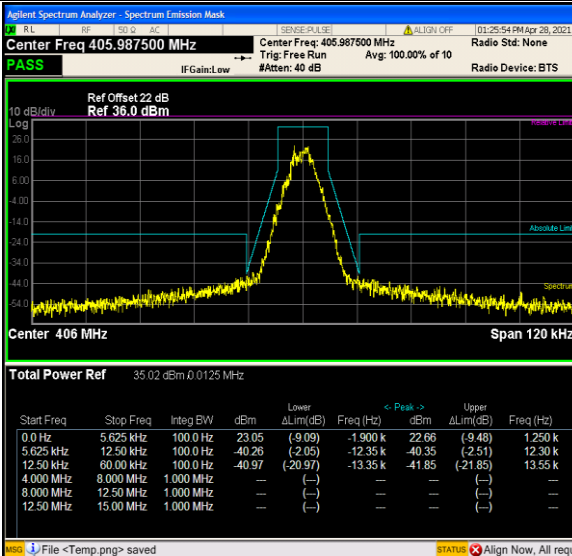
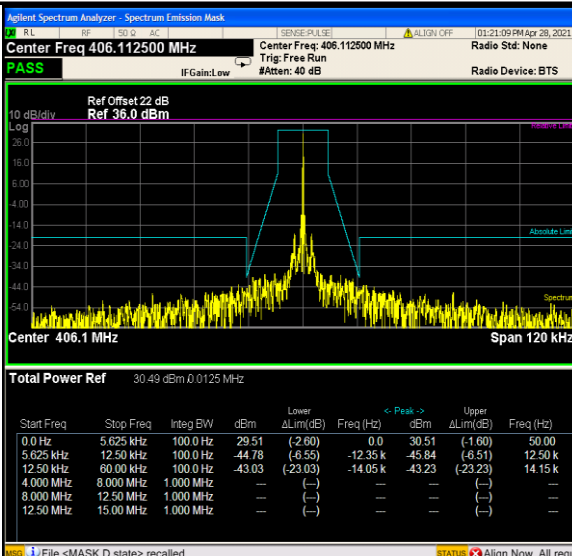
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-DNH	4FSK	CH _{M3}		Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _{M3}		Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _H		Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 23 dB Ref 42.0 dBm	

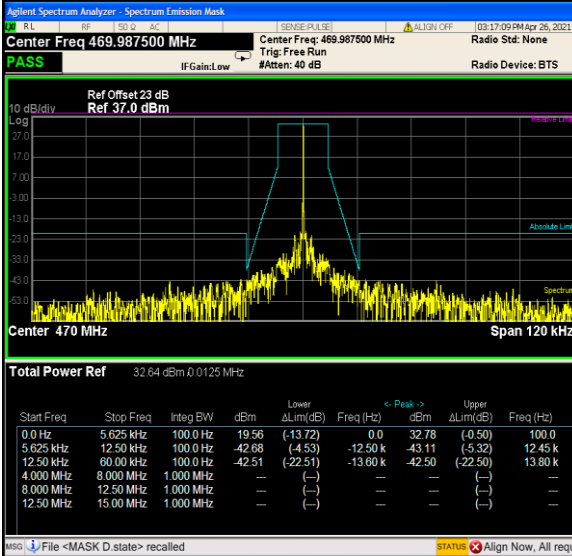
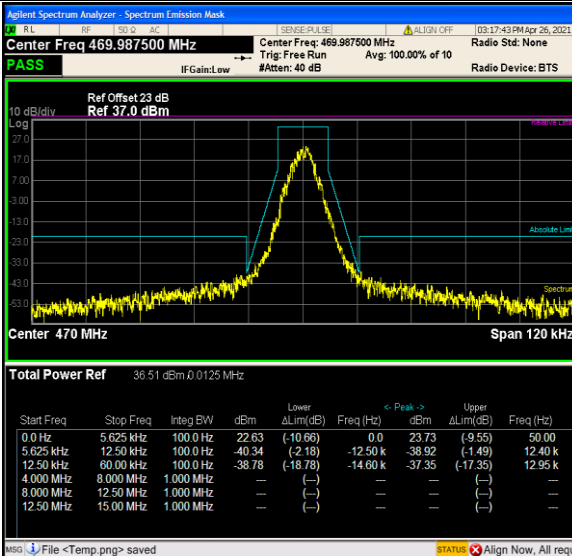
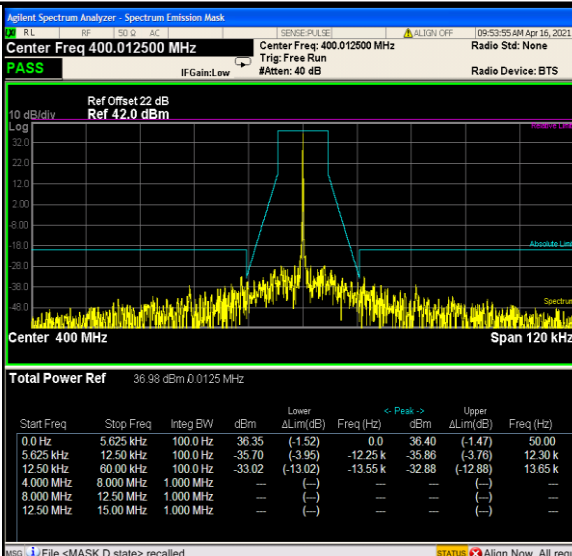
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-DNL	4FSK	CH _{M1}		Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-DNL	4FSK	CH _{M1}		Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-DNL	4FSK	CH _{M2}		Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 34.94 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>20.72</td><td>(-11.39)</td><td>-850.0</td><td>22.67</td><td>(-9.45)</td><td>1.250 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.59</td><td>(-3.99)</td><td>-11.85 k</td><td>-40.43</td><td>(-2.92)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.35</td><td>(-21.35)</td><td>-14.35 k</td><td>-41.04</td><td>(-21.04)</td><td>13.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	20.72	(-11.39)	-850.0	22.67	(-9.45)	1.250 k	5.625 kHz	12.50 kHz	100.0 Hz	-38.59	(-3.99)	-11.85 k	-40.43	(-2.92)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.35	(-21.35)	-14.35 k	-41.04	(-21.04)	13.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 23 dB Ref 36.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 31.04 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>29.94</td><td>(2.05)</td><td>0.0</td><td>31.08</td><td>(0.91)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.14</td><td>(5.15)</td><td>-12.30 k</td><td>-43.90</td><td>(4.82)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.23</td><td>(-23.23)</td><td>-13.00 k</td><td>-42.77</td><td>(-22.77)</td><td>13.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	29.94	(2.05)	0.0	31.08	(0.91)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.14	(5.15)	-12.30 k	-43.90	(4.82)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.23	(-23.23)	-13.00 k	-42.77	(-22.77)	13.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 23 dB Ref 36.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 35.75 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>23.25</td><td>(-8.75)</td><td>0.0</td><td>23.89</td><td>(-8.11)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.35</td><td>(-3.54)</td><td>-12.00 k</td><td>-42.83</td><td>(-3.38)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.45</td><td>(-20.45)</td><td>-14.90 k</td><td>-38.64</td><td>(-18.64)</td><td>13.40 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> 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	23.25	(-8.75)	0.0	23.89	(-8.11)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.35	(-3.54)	-12.00 k	-42.83	(-3.38)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.45	(-20.45)	-14.90 k	-38.64	(-18.64)	13.40 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-DNL	4FSK	CH _H		Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
				Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
				Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz

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 Ω AC SENSE PULSE ALIGN OFF 09:54:17 AM Apr 16, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -8.00 -18.0 -28.0 -38.0 -48.0 Center 400 MHz Span 120 kHz Total Power Ref 36.54 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>34.66</td><td>(-3.22)</td><td>0.0</td><td>35.42</td><td>(-2.46)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.18</td><td>(-1.99)</td><td>-12.46 k</td><td>-34.34</td><td>(-0.78)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.60</td><td>(-15.60)</td><td>-14.65 k</td><td>-33.89</td><td>(-13.89)</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> MSO File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Ω AC SENSE PULSE ALIGN OFF 10:50:40 AM Apr 28, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -8.00 -18.0 -28.0 -38.0 -48.0 Center 406 MHz Span 120 kHz Total Power Ref 36.76 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>< 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>36.77</td><td>(-1.48)</td><td>0.0</td><td>36.77</td><td>(-1.48)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.42</td><td>(-4.68)</td><td>-12.30 k</td><td>-37.25</td><td>(-5.51)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.39</td><td>(-15.39)</td><td>-14.80 k</td><td>-35.19</td><td>(-15.19)</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></tbody></table> MSO File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Ω AC SENSE PULSE ALIGN OFF 10:51:01 AM Apr 28, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -8.00 -18.0 -28.0 -38.0 -48.0 Center 406 MHz Span 120 kHz Total Power Ref 37.21 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>35.71</td><td>(-2.54)</td><td>0.0</td><td>35.71</td><td>(-2.54)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.66</td><td>(-2.19)</td><td>-12.40 k</td><td>-35.27</td><td>(-2.08)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.54</td><td>(-14.54)</td><td>-12.75 k</td><td>-33.15</td><td>(-13.15)</td><td>12.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz </td></tr></td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.66	(-3.22)	0.0	35.42	(-2.46)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.18	(-1.99)	-12.46 k	-34.34	(-0.78)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.60	(-15.60)	-14.65 k	-33.89	(-13.89)	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	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Ω AC SENSE PULSE ALIGN OFF 10:50:40 AM Apr 28, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -8.00 -18.0 -28.0 -38.0 -48.0 Center 406 MHz Span 120 kHz Total Power Ref 36.76 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>< 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>36.77</td><td>(-1.48)</td><td>0.0</td><td>36.77</td><td>(-1.48)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.42</td><td>(-4.68)</td><td>-12.30 k</td><td>-37.25</td><td>(-5.51)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.39</td><td>(-15.39)</td><td>-14.80 k</td><td>-35.19</td><td>(-15.19)</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></tbody></table> MSO File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - 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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Ω AC SENSE PULSE ALIGN OFF 10:51:01 AM Apr 28, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -8.00 -18.0 -28.0 -38.0 -48.0 Center 406 MHz Span 120 kHz Total Power Ref 37.21 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>35.71</td><td>(-2.54)</td><td>0.0</td><td>35.71</td><td>(-2.54)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.66</td><td>(-2.19)</td><td>-12.40 k</td><td>-35.27</td><td>(-2.08)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.54</td><td>(-14.54)</td><td>-12.75 k</td><td>-33.15</td><td>(-13.15)</td><td>12.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Align Now, All required 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	35.71	(-2.54)	0.0	35.71	(-2.54)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.66	(-2.19)	-12.40 k	-35.27	(-2.08)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.54	(-14.54)	-12.75 k	-33.15	(-13.15)	12.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																						
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	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 10 dB/div Log Ref Offset 22 dB Ref 42.0 dBm <	