

Project No.	SHT2111082704EW		
Test sample No.	YPHT21110827013	Model No.	A580T
Start test date	2022/6/16	Finish date	2022/7/1
Temperature	24.5°C	Humidity	54%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhu</i>

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

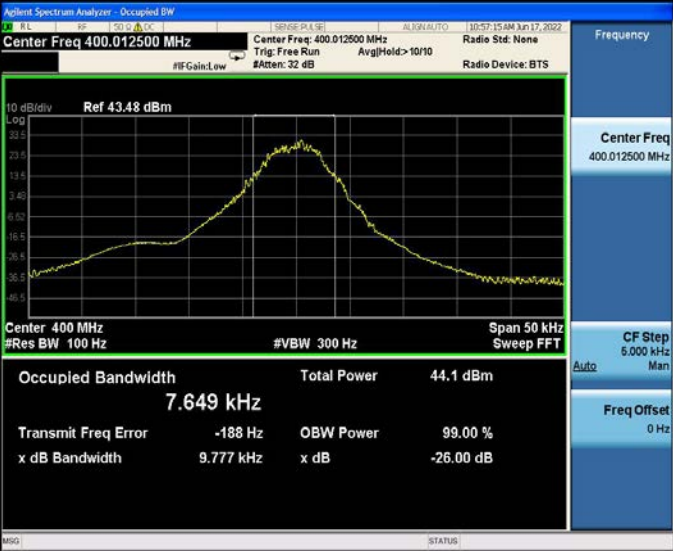
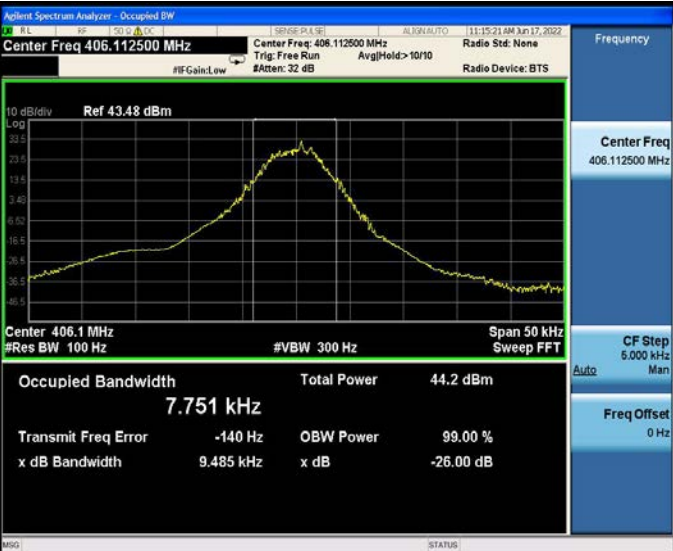
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.8	4.79	4.00	19.8	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.1	3.24	4.00	-19.0	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.7	4.68	4.00	17.0	±20	PASS
TX-DNH	4FSK	CH _{M3}	36.6	4.57	4.00	14.3	±20	PASS
TX-DNH	4FSK	CH _H	36.7	4.68	4.00	17.0	±20	PASS
TX-DNL	4FSK	CH _L	31.0	1.26	1.50	-16.0	±20	PASS
TX-DNL	4FSK	CH _{M1}	31.3	1.35	1.50	-10.0	±20	PASS
TX-DNL	4FSK	CH _{M2}	31.2	1.32	1.50	-12.0	±20	PASS
TX-DNL	4FSK	CH _{M3}	30.9	1.23	1.50	-18.0	±20	PASS
TX-DNL	4FSK	CH _H	30.9	1.23	1.50	-18.0	±20	PASS
TX-ANH	FM	CH _L	36.6	4.57	4.00	14.3	±20	PASS
TX-ANH	FM	CH _{M1}	36.7	4.68	4.00	17.0	±20	PASS
TX-ANH	FM	CH _{M2}	36.7	4.68	4.00	17.0	±20	PASS
TX-ANH	FM	CH _{M3}	36.8	4.79	4.00	19.8	±20	PASS
TX-ANH	FM	CH _H	36.6	4.57	4.00	14.3	±20	PASS
TX-ANL	FM	CH _L	31.4	1.38	1.50	-8.0	±20	PASS
TX-ANL	FM	CH _{M1}	31.6	1.45	1.50	-3.3	±20	PASS
TX-ANL	FM	CH _{M2}	31.6	1.45	1.50	-3.3	±20	PASS
TX-ANL	FM	CH _{M3}	31.2	1.32	1.50	-12.0	±20	PASS
TX-ANL	FM	CH _H	30.9	1.23	1.50	-18.0	±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	7.649	9.777	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.874	9.601	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.751	9.485	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.898	9.600	≤ 11.25	PASS
TX-DNH	4FSK	CH _H	7.871	9.613	≤ 11.25	PASS
TX-DNL	4FSK	CH _L	8.128	10.050	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.926	9.906	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.891	9.796	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M3}	8.025	9.996	≤ 11.25	PASS
TX-DNL	4FSK	CH _H	7.653	9.328	≤ 11.25	PASS
TX-ANH	FM	CH _L	5.175	10.040	≤ 11.25	PASS
TX-ANH	FM	CH _{M1}	5.178	10.050	≤ 11.25	PASS
TX-ANH	FM	CH _{M2}	5.175	10.060	≤ 11.25	PASS
TX-ANH	FM	CH _{M3}	5.158	10.020	≤ 11.25	PASS
TX-ANH	FM	CH _H	5.169	5.243	≤ 11.25	PASS
TX-ANL	FM	CH _L	5.171	10.030	≤ 11.25	PASS
TX-ANL	FM	CH _{M1}	5.177	10.050	≤ 11.25	PASS
TX-ANL	FM	CH _{M2}	5.172	10.040	≤ 11.25	PASS
TX-ANL	FM	CH _{M3}	5.161	10.020	≤ 11.25	PASS
TX-ANL	FM	CH _H	5.154	5.252	≤ 11.25	PASS

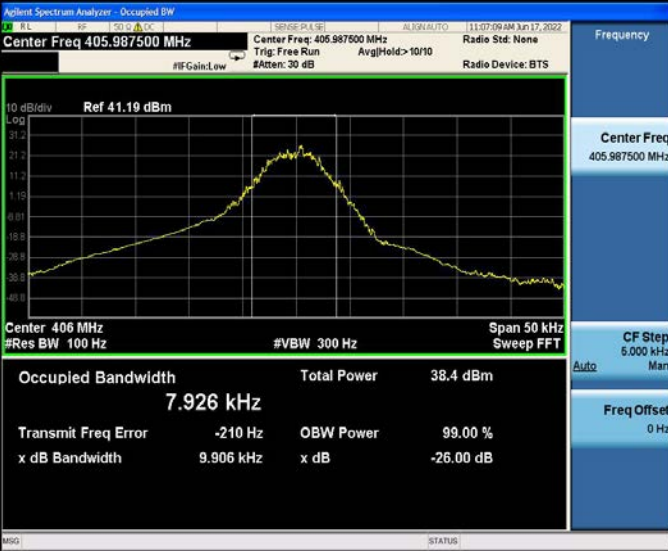
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 43.48 dBm Occupied Bandwidth 7.649 kHz Total Power 44.1 dBm Transmit Freq Error -188 Hz OBW Power 99.00 % x dB Bandwidth 9.777 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 43.44 dBm Occupied Bandwidth 7.874 kHz Total Power 44.2 dBm Transmit Freq Error -217 Hz OBW Power 99.00 % x dB Bandwidth 9.601 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 43.48 dBm Occupied Bandwidth 7.751 kHz Total Power 44.2 dBm Transmit Freq Error -140 Hz OBW Power 99.00 % x dB Bandwidth 9.485 kHz x dB -26.00 dB

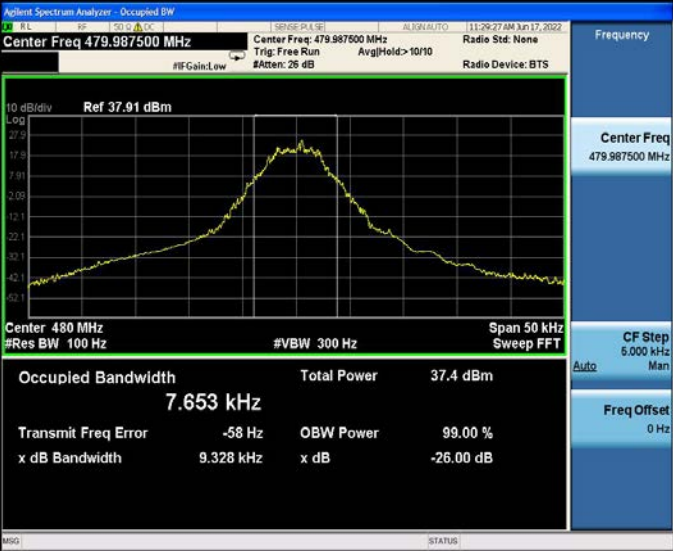
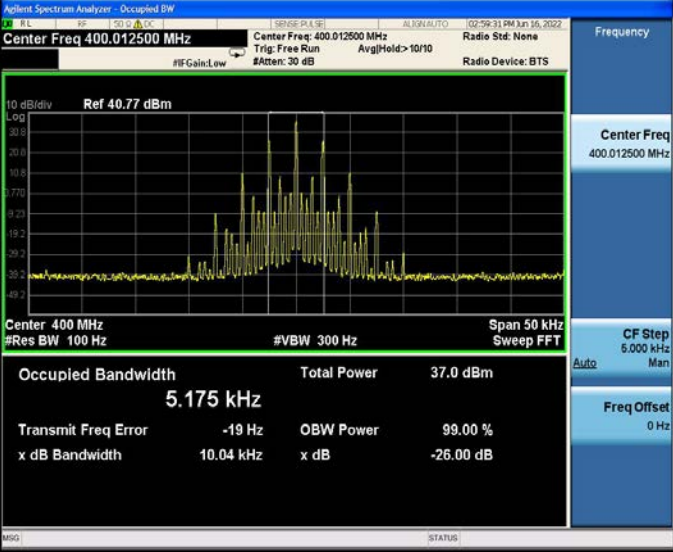
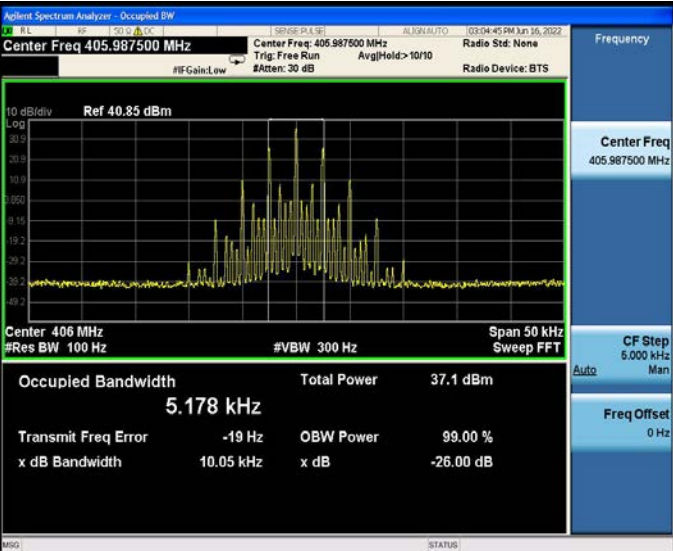
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 43.50 dBm Occupied Bandwidth 7.898 kHz Total Power 44.1 dBm Transmit Freq Error -140 Hz OBW Power 99.00 % x dB Bandwidth 9.600 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Ref 42.01 dBm Occupied Bandwidth 7.871 kHz Total Power 44.3 dBm Transmit Freq Error -80 Hz OBW Power 99.00 % x dB Bandwidth 9.613 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 41.20 dBm Occupied Bandwidth 8.128 kHz Total Power 38.2 dBm Transmit Freq Error -252 Hz OBW Power 99.00 % x dB Bandwidth 10.05 kHz x dB -26.00 dB

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 41.19 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.926 kHz Total Power 38.4 dBm Transmit Freq Error -210 Hz OBW Power 99.00 % x dB Bandwidth 9.906 kHz x dB -26.00 dB Frequency Center Freq 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-DNL	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 41.26 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.891 kHz Total Power 38.6 dBm Transmit Freq Error -278 Hz OBW Power 99.00 % x dB Bandwidth 9.796 kHz x dB -26.00 dB Frequency Center Freq 406.112500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-DNL	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 40.02 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 8.025 kHz Total Power 37.8 dBm Transmit Freq Error -75 Hz OBW Power 99.00 % x dB Bandwidth 9.996 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

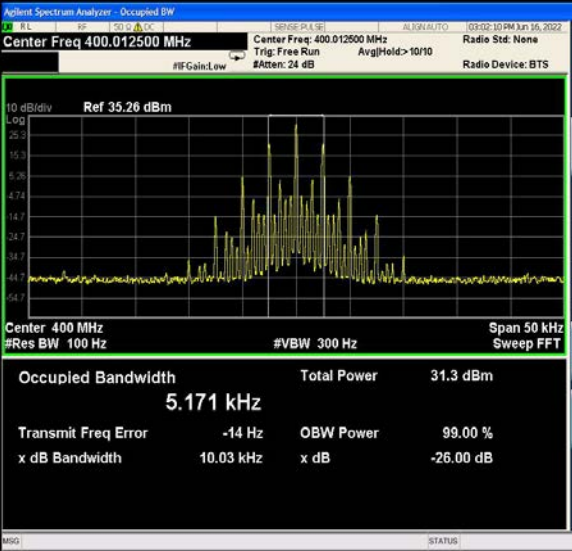
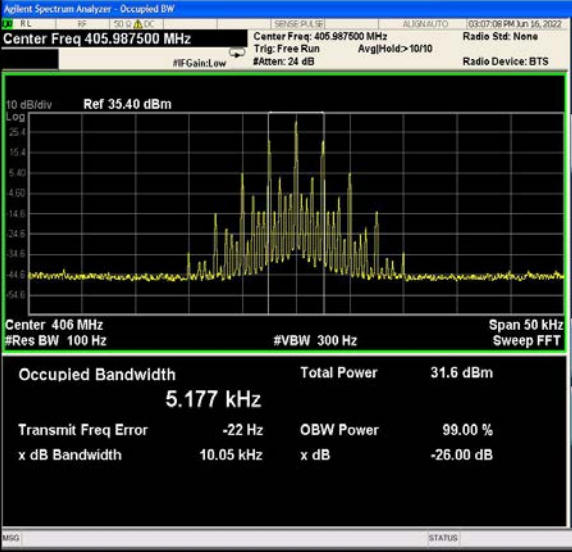
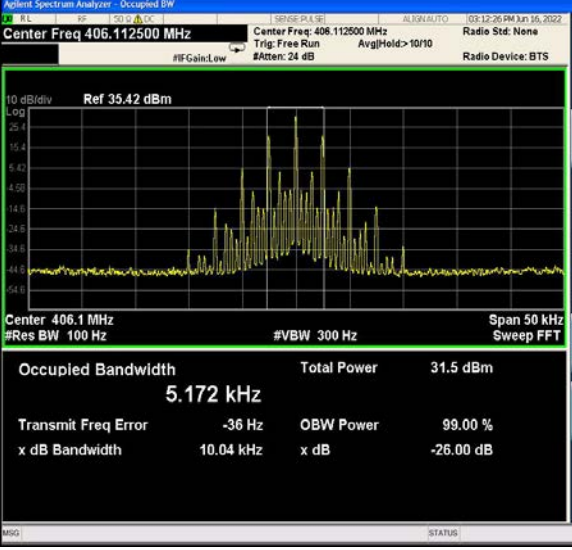
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Ref 37.91 dBm Occupied Bandwidth 7.653 kHz Total Power 37.4 dBm Transmit Freq Error -58 Hz OBW Power 99.00 % x dB Bandwidth 9.328 kHz x dB -26.00 dB
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 40.77 dBm Occupied Bandwidth 5.175 kHz Total Power 37.0 dBm Transmit Freq Error -19 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 40.85 dBm Occupied Bandwidth 5.178 kHz Total Power 37.1 dBm Transmit Freq Error -19 Hz OBW Power 99.00 % x dB Bandwidth 10.05 kHz x dB -26.00 dB

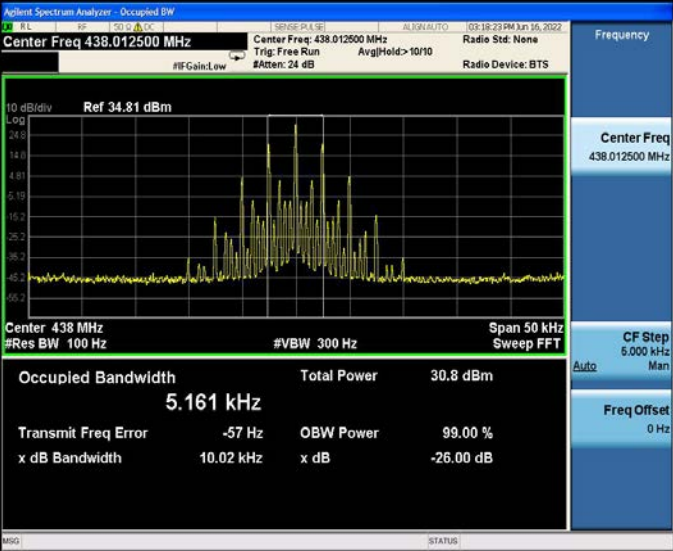
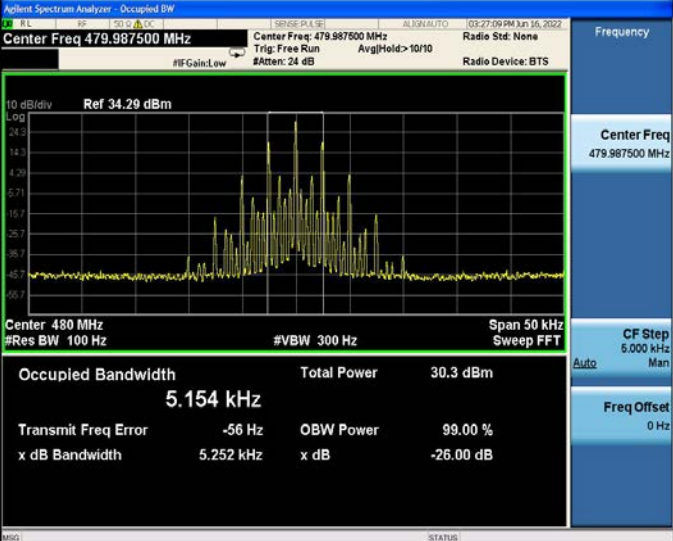
Appendix B:Occupied Bandwidth

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 40.88 dBm 10 dB/div Log Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.175 kHz Total Power 37.4 dBm Transmit Freq Error -27 Hz OBW Power 99.00 % x dB Bandwidth 10.06 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 40.87 dBm 10 dB/div Log Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.158 kHz Total Power 36.9 dBm Transmit Freq Error -56 Hz OBW Power 99.00 % x dB Bandwidth 10.02 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 479.987500 MHz Center Freq 479.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 40.91 dBm 10 dB/div Log Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.169 kHz Total Power 37.3 dBm Transmit Freq Error -77 Hz OBW Power 99.00 % x dB Bandwidth 5.243 kHz x dB -26.00 dB Frequency Center Freq 479.987500 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 Span 50 kHz Occupied Bandwidth 5.171 kHz Total Power 31.3 dBm Transmit Freq Error -14 Hz OBW Power 99.00 % x dB Bandwidth 10.03 kHz x dB -26.00 dB
TX-ANL	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Span 50 kHz Occupied Bandwidth 5.177 kHz Total Power 31.6 dBm Transmit Freq Error -22 Hz OBW Power 99.00 % x dB Bandwidth 10.05 kHz x dB -26.00 dB
TX-ANL	FM	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Span 50 kHz Occupied Bandwidth 5.172 kHz Total Power 31.5 dBm Transmit Freq Error -36 Hz OBW Power 99.00 % x dB Bandwidth 10.04 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 #IF Gain: Low #Atten: 24 dB Radio Device: BTS Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 5.161 kHz Total Power 30.8 dBm Transmit Freq Error -57 Hz OBW Power 99.00 % x dB Bandwidth 10.02 kHz x dB -26.00 dB MSG (STATUS)
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None #IF Gain: Low #Atten: 24 dB Radio Device: BTS Frequency Center Freq 479.987500 MHz CF Step 5.000 kHz Auto Man Freq Offset 0 Hz Occupied Bandwidth 5.154 kHz Total Power 30.3 dBm Transmit Freq Error -56 Hz OBW Power 99.00 % x dB Bandwidth 5.252 kHz x dB -26.00 dB MSG (STATUS)

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run #Atten: 40 dB Radio Stt: None Radio Device: BTS 10 dB/div Ref Offset 21 dB Ref 41.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 36.25 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 ΔLim(dB)</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>35.44</td><td>(-1.34)</td><td>0.0</td><td>35.65</td><td>(-1.12)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.77</td><td>(-5.11)</td><td>-12.50 k</td><td>-40.86</td><td>(-7.65)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.16</td><td>(-17.16)</td><td>-14.65 k</td><td>-37.32</td><td>(-17.32)</td><td>14.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.44	(-1.34)	0.0	35.65	(-1.12)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.77	(-5.11)	-12.50 k	-40.86	(-7.65)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.16	(-17.16)	-14.65 k	-37.32	(-17.32)	14.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Stt: None Radio Device: BTS 10 dB/div Ref Offset 21 dB Ref 41.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 40.29 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>25.71</td><td>(-11.07)</td><td>-250.0</td><td>27.22</td><td>(9.55)</td><td>1.450 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.89</td><td>(-2.59)</td><td>-12.45 k</td><td>-37.01</td><td>(-2.35)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.31</td><td>(-15.31)</td><td>-13.50 k</td><td>-35.45</td><td>(-15.45)</td><td>14.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.71	(-11.07)	-250.0	27.22	(9.55)	1.450 k	5.625 kHz	12.50 kHz	100.0 Hz	-36.89	(-2.59)	-12.45 k	-37.01	(-2.35)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.31	(-15.31)	-13.50 k	-35.45	(-15.45)	14.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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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 Radio Stt: None Radio Device: BTS 10 dB/div Ref Offset 21 dB Ref 41.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 36.32 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 ΔLim(dB)</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>35.64</td><td>(-1.22)</td><td>0.0</td><td>35.72</td><td>(-1.15)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.58</td><td>(-5.99)</td><td>-12.50 k</td><td>-37.97</td><td>(-8.13)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.03</td><td>(-19.03)</td><td>-12.50 k</td><td>-36.17</td><td>(-16.17)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.64	(-1.22)	0.0	35.72	(-1.15)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.58	(-5.99)	-12.50 k	-37.97	(-8.13)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.03	(-19.03)	-12.50 k	-36.17	(-16.17)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 21 dB Ref 41.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 40.04 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 ΔLim(dB)</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>27.24</td><td>(9.62)</td><td>-250.0</td><td>27.92</td><td>(8.95)</td><td>1.250 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.32</td><td>(-3.20)</td><td>-12.30 k</td><td>-38.09</td><td>(-3.52)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.36</td><td>(-14.36)</td><td>-12.85 k</td><td>-35.60</td><td>(-15.60)</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> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.24	(9.62)	-250.0	27.92	(8.95)	1.250 k	5.625 kHz	12.50 kHz	100.0 Hz	-36.32	(-3.20)	-12.30 k	-38.09	(-3.52)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.36	(-14.36)	-12.85 k	-35.60	(-15.60)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{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 21 dB Ref 41.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 36.32 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 ΔLim(dB)</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>35.65</td><td>(1.23)</td><td>0.0</td><td>35.76</td><td>(1.12)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.31</td><td>(4.57)</td><td>-12.25 k</td><td>-37.71</td><td>(-4.61)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.06</td><td>(-17.06)</td><td>-15.90 k</td><td>-36.93</td><td>(-16.93)</td><td>15.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.65	(1.23)	0.0	35.76	(1.12)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-37.31	(4.57)	-12.25 k	-37.71	(-4.61)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.06	(-17.06)	-15.90 k	-36.93	(-16.93)	15.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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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 Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 21 dB Ref 41.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 40.19 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.40</td><td>(-10.48)</td><td>-100.0</td><td>27.85</td><td>(9.03)</td><td>400.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.02</td><td>(-3.48)</td><td>-12.50 k</td><td>-36.93</td><td>(-3.48)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.77</td><td>(-15.77)</td><td>-14.30 k</td><td>-35.39</td><td>(-15.39)</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 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.40	(-10.48)	-100.0	27.85	(9.03)	400.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.02	(-3.48)	-12.50 k	-36.93	(-3.48)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.77	(-15.77)	-14.30 k	-35.39	(-15.39)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-35.77	(-15.77)	-14.30 k	-35.39	(-15.39)	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	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF IF LO ADC SENSE PL19E ALPHA AUTO 04:53:26 PM 1/01, 2022 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.100 0.010 0.001 0.0001 0.00001 0.000001 0.0000001 0.00000001 0.000000001 0.0000000001 0.00000000001 0.000000000001 0.0000000000001 0.00000000000001 0.000000000000001 0.0000000000000001 0.00000000000000001 0.000000000000000001 0.0000000000000000001 0.00000000000000000001 0.000000000000000000001 0.0000000000000000000001 0.00000000000000000000001 0.000000000000000000000001 0.0000000000000000000000001 0.00000000000000000000000001 0.000000000000000000000000001 0.0000000000000000000000000001 0.00000000000000000000000000001 0.000000000000000000000000000001 0.0000000000000000000000000000001 0.00000000000000000000000000000001 0.000000000000000000000000000000001 0.0000000000000000000000000000000001 0.00000000000000000000000000000000001 0.000000000000000000000000000000000001 0.0000000000000000000000000000000000001 0.00000000000000000000000000000000000001 0.000000000000000000000000000000000000001 0.0000000000000000000000000000000000000001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.00

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 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 41.0 dBm Center 470 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 ΔLim(dB)</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>26.89</td><td>(-10.02)</td><td>-350.0</td><td>27.52</td><td>(9.39)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.94</td><td>(-1.14)</td><td>-12.40 k</td><td>-36.77</td><td>(2.24)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.12</td><td>(-15.12)</td><td>-13.05 k</td><td>-36.23</td><td>(-16.23)</td><td>14.35 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> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.89	(-10.02)	-350.0	27.52	(9.39)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.94	(-1.14)	-12.40 k	-36.77	(2.24)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.12	(-15.12)	-13.05 k	-36.23	(-16.23)	14.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 34.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 29.60 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</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>28.16</td><td>(1.65)</td><td>0.0</td><td>28.59</td><td>(1.22)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.54</td><td>(-3.92)</td><td>-12.50 k</td><td>-47.83</td><td>(-7.66)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.65</td><td>(-25.65)</td><td>-18.15 k</td><td>-45.47</td><td>(-25.47)</td><td>18.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.16	(1.65)	0.0	28.59	(1.22)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-45.54	(-3.92)	-12.50 k	-47.83	(-7.66)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.65	(-25.65)	-18.15 k	-45.47	(-25.47)	18.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 34.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 32.88 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 ΔLim(dB)</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>(-12.03)</td><td>-1.400 k</td><td>21.21</td><td>(8.60)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.39</td><td>(-2.49)</td><td>-12.40 k</td><td>-43.34</td><td>(-2.44)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.31</td><td>(-22.31)</td><td>-12.60 k</td><td>-43.62</td><td>(-23.62)</td><td>12.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	17.78	(-12.03)	-1.400 k	21.21	(8.60)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.39	(-2.49)	-12.40 k	-43.34	(-2.44)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.31	(-22.31)	-12.60 k	-43.62	(-23.62)	12.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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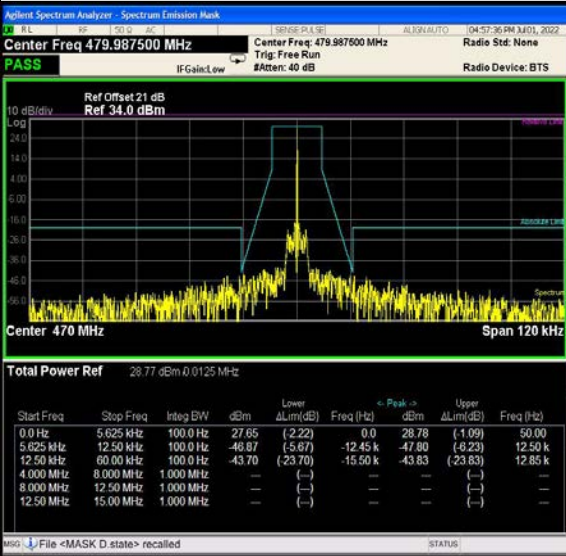
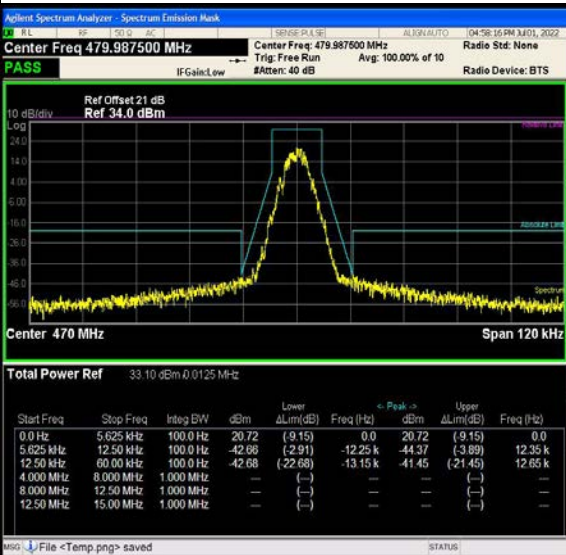
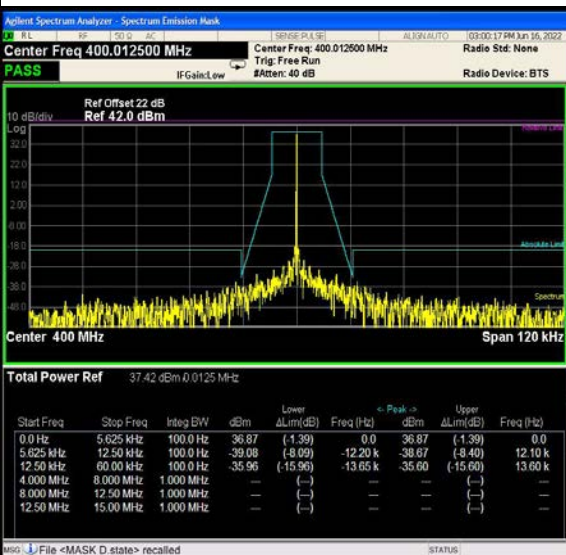
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 35.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 29.99 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>29.35</td><td>(-1.82)</td><td>0.0</td><td>29.99</td><td>(-1.17)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.42</td><td>(-8.51)</td><td>-12.45 k</td><td>-44.87</td><td>(-5.69)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.46</td><td>(-23.46)</td><td>-14.75 k</td><td>-43.26</td><td>(-23.26)</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 Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.35	(-1.82)	0.0	29.99	(-1.17)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-48.42	(-8.51)	-12.45 k	-44.87	(-5.69)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.46	(-23.46)	-14.75 k	-43.26	(-23.26)	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-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 35.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 34.75 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>21.67</td><td>(9.50)</td><td>-300.0</td><td>23.24</td><td>(7.92)</td><td>400.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.81</td><td>(-2.90)</td><td>-12.45 k</td><td>-42.01</td><td>(-2.83)</td><td>12.35 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>-14.15 k</td><td>-43.01</td><td>(-23.01)</td><td>16.40 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 <Temp.png> saved Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.67	(9.50)	-300.0	23.24	(7.92)	400.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.81	(-2.90)	-12.45 k	-42.01	(-2.83)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.22	(-19.22)	-14.15 k	-43.01	(-23.01)	16.40 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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TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 35.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 29.94 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>29.28</td><td>(-1.82)</td><td>0.0</td><td>30.00</td><td>(-1.10)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.22</td><td>(-1.88)</td><td>-12.50 k</td><td>-48.23</td><td>(-8.28)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.29</td><td>(-25.29)</td><td>-17.55 k</td><td>-45.52</td><td>(-25.52)</td><td>17.65 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> MSO File <MASK D state> recalled Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.28	(-1.82)	0.0	30.00	(-1.10)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.22	(-1.88)	-12.50 k	-48.23	(-8.28)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.29	(-25.29)	-17.55 k	-45.52	(-25.52)	17.65 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-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 21 dB Ref 35.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 34.75 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 ΔLim(dB)</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>22.63</td><td>(-8.47)</td><td>-150.0</td><td>20.88</td><td>(-10.22)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.30</td><td>(-3.05)</td><td>-12.35 k</td><td>-43.26</td><td>(-2.92)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.18</td><td>(-19.18)</td><td>-14.35 k</td><td>-40.81</td><td>(-20.81)</td><td>20.60 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 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.63	(-8.47)	-150.0	20.88	(-10.22)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.30	(-3.05)	-12.35 k	-43.26	(-2.92)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.18	(-19.18)	-14.35 k	-40.81	(-20.81)	20.60 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 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 31.77 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 ΔLim(dB)</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>31.56</td><td>(-0.76)</td><td>-50.00</td><td>31.52</td><td>(-0.79)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.88</td><td>(-8.78)</td><td>-11.95 k</td><td>-48.15</td><td>(-7.03)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.13</td><td>(-21.13)</td><td>-14.90 k</td><td>-40.79</td><td>(-20.79)</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> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.56	(-0.76)	-50.00	31.52	(-0.79)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.88	(-8.78)	-11.95 k	-48.15	(-7.03)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.13	(-21.13)	-14.90 k	-40.79	(-20.79)	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-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 21 dB Ref 34.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 33.15 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</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>20.21</td><td>(-9.89)</td><td>-1.900 k</td><td>22.30</td><td>(-7.80)</td><td>1.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.12</td><td>(-3.24)</td><td>-12.30 k</td><td>-41.65</td><td>(-2.88)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.24</td><td>(-22.24)</td><td>-13.75 k</td><td>-40.91</td><td>(-20.91)</td><td>13.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.21	(-9.89)	-1.900 k	22.30	(-7.80)	1.350 k	5.625 kHz	12.50 kHz	100.0 Hz	-43.12	(-3.24)	-12.30 k	-41.65	(-2.88)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.24	(-22.24)	-13.75 k	-40.91	(-20.91)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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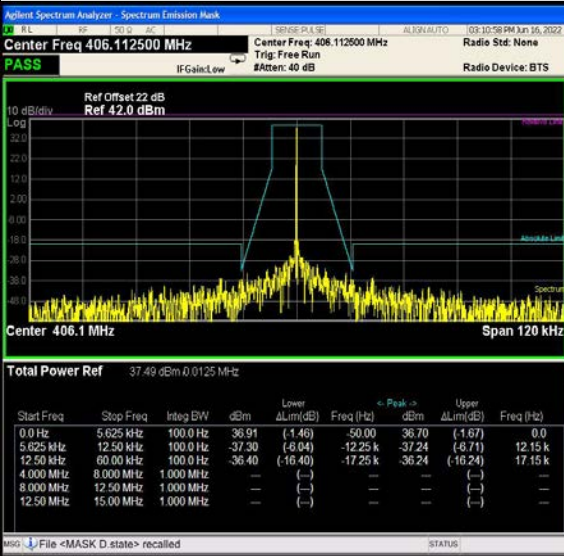
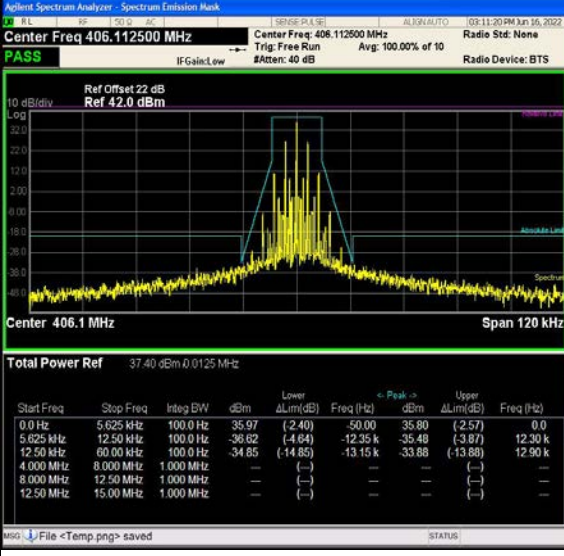
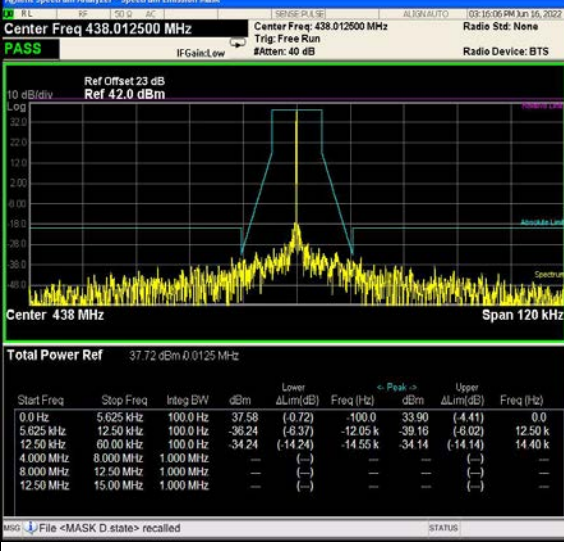
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-DNL	4FSK	CH _H		Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz
				Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz
				Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto 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 Center Freq 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 37.16 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>35.93</td><td>(-2.33)</td><td>-50.00</td><td>35.92</td><td>(-2.33)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.92</td><td>(-3.10)</td><td>-12.45 k</td><td>-35.14</td><td>(-1.96)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.62</td><td>(-13.62)</td><td>-13.65 k</td><td>-34.20</td><td>(-14.20)</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 400.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.93	(-2.33)	-50.00	35.92	(-2.33)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.92	(-3.10)	-12.45 k	-35.14	(-1.96)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.62	(-13.62)	-13.65 k	-34.20	(-14.20)	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-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 37.20 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>36.92</td><td>(-1.45)</td><td>0.0</td><td>36.92</td><td>(-1.45)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.27</td><td>(-6.20)</td><td>-12.50 k</td><td>-39.44</td><td>(-6.38)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.17</td><td>(-14.17)</td><td>-13.80 k</td><td>-34.04</td><td>(-14.04)</td><td>13.75 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> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.92	(-1.45)	0.0	36.92	(-1.45)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.27	(-6.20)	-12.50 k	-39.44	(-6.38)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.17	(-14.17)	-13.80 k	-34.04	(-14.04)	13.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 37.22 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>35.98</td><td>(-2.39)</td><td>-50.00</td><td>35.96</td><td>(-2.41)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.90</td><td>(-3.29)</td><td>-12.30 k</td><td>-37.07</td><td>(-4.01)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.69</td><td>(-13.69)</td><td>-13.05 k</td><td>-34.82</td><td>(-14.82)</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 405.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.98	(-2.39)	-50.00	35.96	(-2.41)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.90	(-3.29)	-12.30 k	-37.07	(-4.01)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.69	(-13.69)	-13.05 k	-34.82	(-14.82)	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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH _{M2}		Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz
				Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz
				Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	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 IF Gain: Low #Atten: 40 dB Ref Offset 23 dB Ref 42.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 37.72 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>36.68</td><td>(-1.62)</td><td>-100.0</td><td>33.14</td><td>(-5.16)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.73</td><td>(-2.05)</td><td>-12.30 k</td><td>-35.86</td><td>(-2.73)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.89</td><td>(-13.89)</td><td>-15.20 k</td><td>-35.03</td><td>(-15.03)</td><td>14.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.68	(-1.62)	-100.0	33.14	(-5.16)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.73	(-2.05)	-12.30 k	-35.86	(-2.73)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.89	(-13.89)	-15.20 k	-35.03	(-15.03)	14.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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0.0 Hz	5.625 kHz	100.0 Hz	36.68	(-1.62)	-100.0	33.14	(-5.16)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-33.73	(-2.05)	-12.30 k	-35.86	(-2.73)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-33.89	(-13.89)	-15.20 k	-35.03	(-15.03)	14.95 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 42.0 dBm Center 480 MHz Span 120 kHz Total Power Ref 36.95 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>37.00</td><td>(-1.41)</td><td>-100.0</td><td>20.98</td><td>(-17.43)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.39</td><td>(-8.18)</td><td>-12.25 k</td><td>-40.73</td><td>(-7.71)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.69</td><td>(-15.69)</td><td>-13.25 k</td><td>-35.76</td><td>(-15.76)</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> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.00	(-1.41)	-100.0	20.98	(-17.43)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.39	(-8.18)	-12.25 k	-40.73	(-7.71)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.69	(-15.69)	-13.25 k	-35.76	(-15.76)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 42.0 dBm Center 480 MHz Span 120 kHz Total Power Ref 36.97 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>36.16</td><td>(-2.25)</td><td>-100.0</td><td>26.12</td><td>(-12.29)</td><td>2.400 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.53</td><td>(-3.50)</td><td>-12.50 k</td><td>-34.47</td><td>(-2.17)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.62</td><td>(-13.62)</td><td>-15.35 k</td><td>-32.98</td><td>(-12.98)</td><td>12.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.16	(-2.25)	-100.0	26.12	(-12.29)	2.400 k	5.625 kHz	12.50 kHz	100.0 Hz	-36.53	(-3.50)	-12.50 k	-34.47	(-2.17)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.62	(-13.62)	-15.35 k	-32.98	(-12.98)	12.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz PASS IF Gain: Low Center Freq: 400.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 31.50 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 ΔLim(dB)</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>31.33</td><td>(-1.43)</td><td>-50.00</td><td>31.29</td><td>(-1.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.33</td><td>(-9.01)</td><td>-12.45 k</td><td>-48.24</td><td>(-10.29)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.48</td><td>(-22.48)</td><td>-12.55 k</td><td>-42.32</td><td>(-22.32)</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> Alignment Completed 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.33	(-1.43)	-50.00	31.29	(-1.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-47.33	(-9.01)	-12.45 k	-48.24	(-10.29)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.48	(-22.48)	-12.55 k	-42.32	(-22.32)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz PASS IF Gain: Low Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 31.53 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</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>30.38</td><td>(-2.38)</td><td>0.0</td><td>30.38</td><td>(-2.38)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.29</td><td>(-4.79)</td><td>-12.20 k</td><td>-42.22</td><td>(-5.72)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.43</td><td>(-20.43)</td><td>-16.90 k</td><td>-40.40</td><td>(-20.40)</td><td>13.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.38	(-2.38)	0.0	30.38	(-2.38)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.29	(-4.79)	-12.20 k	-42.22	(-5.72)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.43	(-20.43)	-16.90 k	-40.40	(-20.40)	13.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS IF Gain: Low Center Freq: 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 32.04 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 ΔLim(dB)</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>31.45</td><td>(-1.46)</td><td>-50.00</td><td>31.44</td><td>(-1.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.95</td><td>(-3.97)</td><td>-12.15 k</td><td>-39.75</td><td>(-4.49)</td><td>12.05 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>-13.20 k</td><td>-41.66</td><td>(-21.66)</td><td>14.10 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D state> recalled STATUS Frequency Center Freq 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.45	(-1.46)	-50.00	31.44	(-1.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.95	(-3.97)	-12.15 k	-39.75	(-4.49)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.60	(-21.60)	-13.20 k	-41.66	(-21.66)	14.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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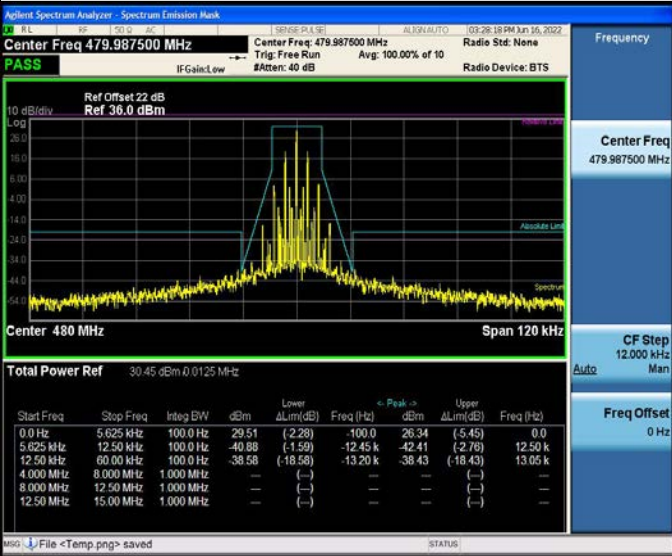
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 31.99 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 ΔLim(dB)</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>30.54</td><td>(-2.37)</td><td>0.0</td><td>30.54</td><td>(-2.37)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.33</td><td>(-0.27)</td><td>-12.50 k</td><td>-40.27</td><td>(-2.10)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.58</td><td>(-20.58)</td><td>-14.40 k</td><td>-38.83</td><td>(-18.83)</td><td>14.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.54	(-2.37)	0.0	30.54	(-2.37)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.33	(-0.27)	-12.50 k	-40.27	(-2.10)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.58	(-20.58)	-14.40 k	-38.83	(-18.83)	14.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	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 37.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 31.47 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 ΔLim(dB)</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>31.48</td><td>(-1.48)</td><td>-50.00</td><td>30.83</td><td>(-2.13)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.14</td><td>(-7.39)</td><td>-12.40 k</td><td>-44.79</td><td>(-7.77)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.53</td><td>(-19.53)</td><td>-13.25 k</td><td>-39.83</td><td>(-19.83)</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 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.48	(-1.48)	-50.00	30.83	(-2.13)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.14	(-7.39)	-12.40 k	-44.79	(-7.77)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.53	(-19.53)	-13.25 k	-39.83	(-19.83)	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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 36.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 31.59 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>31.51</td><td>(0.74)</td><td>-100.0</td><td>28.49</td><td>(-3.76)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.38</td><td>(-1.90)</td><td>-12.40 k</td><td>-40.68</td><td>(-2.93)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.94</td><td>(-18.94)</td><td>-13.15 k</td><td>-39.96</td><td>(-19.96)</td><td>13.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.51	(0.74)	-100.0	28.49	(-3.76)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.38	(-1.90)	-12.40 k	-40.68	(-2.93)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.94	(-18.94)	-13.15 k	-39.96	(-19.96)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 36.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 31.59 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>30.56</td><td>(-1.69)</td><td>-50.00</td><td>27.70</td><td>(-4.54)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.48</td><td>(-3.29)</td><td>-12.50 k</td><td>-40.52</td><td>(-1.69)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.93</td><td>(-20.93)</td><td>-17.70 k</td><td>-40.24</td><td>(-20.24)</td><td>17.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.56	(-1.69)	-50.00	27.70	(-4.54)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.48	(-3.29)	-12.50 k	-40.52	(-1.69)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.93	(-20.93)	-17.70 k	-40.24	(-20.24)	17.15 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-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 480 MHz Span 120 kHz Total Power Ref 30.41 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>30.29</td><td>(-1.50)</td><td>-50.00</td><td>27.31</td><td>(-4.48)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.90</td><td>(-2.71)</td><td>-12.30 k</td><td>-40.82</td><td>(-3.35)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.54</td><td>(-25.54)</td><td>-14.70 k</td><td>-45.37</td><td>(-25.37)</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> File <MASK.D.state> recalled Frequency Center Freq 479.987500 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	30.29	(-1.50)	-50.00	27.31	(-4.48)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.90	(-2.71)	-12.30 k	-40.82	(-3.35)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.54	(-25.54)	-14.70 k	-45.37	(-25.37)	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	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

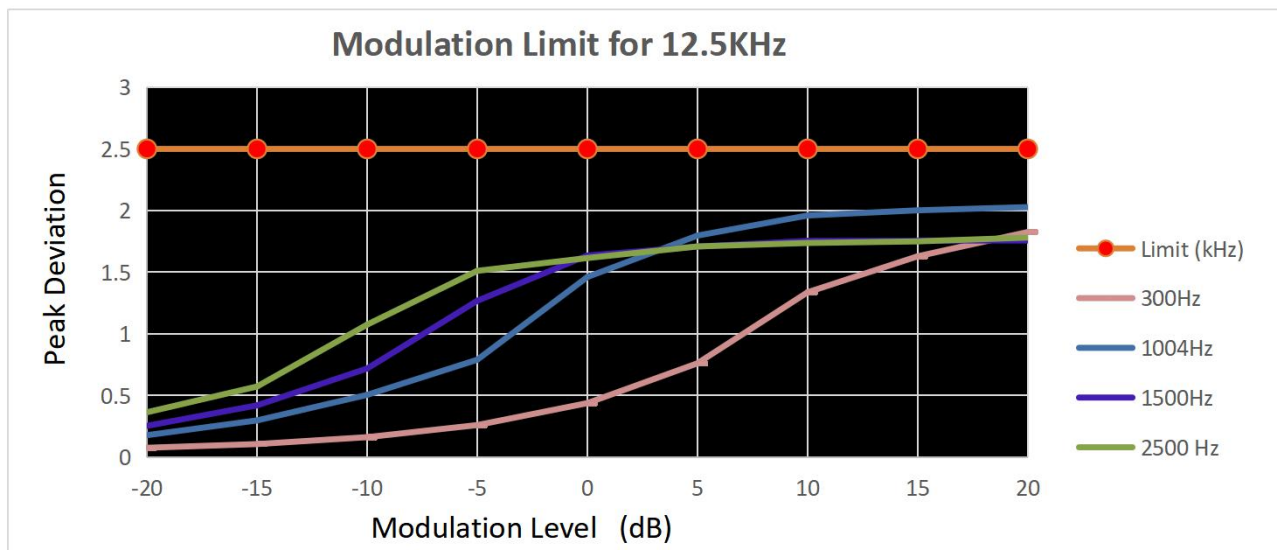
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANL	FM	CH _H		Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz

Appendix D:Modulation Limit

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.076	0.178	0.254	0.364	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.106	0.298	0.420	0.573	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.162	0.505	0.719	1.075	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.260	0.790	1.268	1.511	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.438	1.461	1.635	1.615	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.761	1.797	1.708	1.709	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.337	1.960	1.754	1.737	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.629	2.002	1.757	1.750	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.826	2.028	1.754	1.781	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

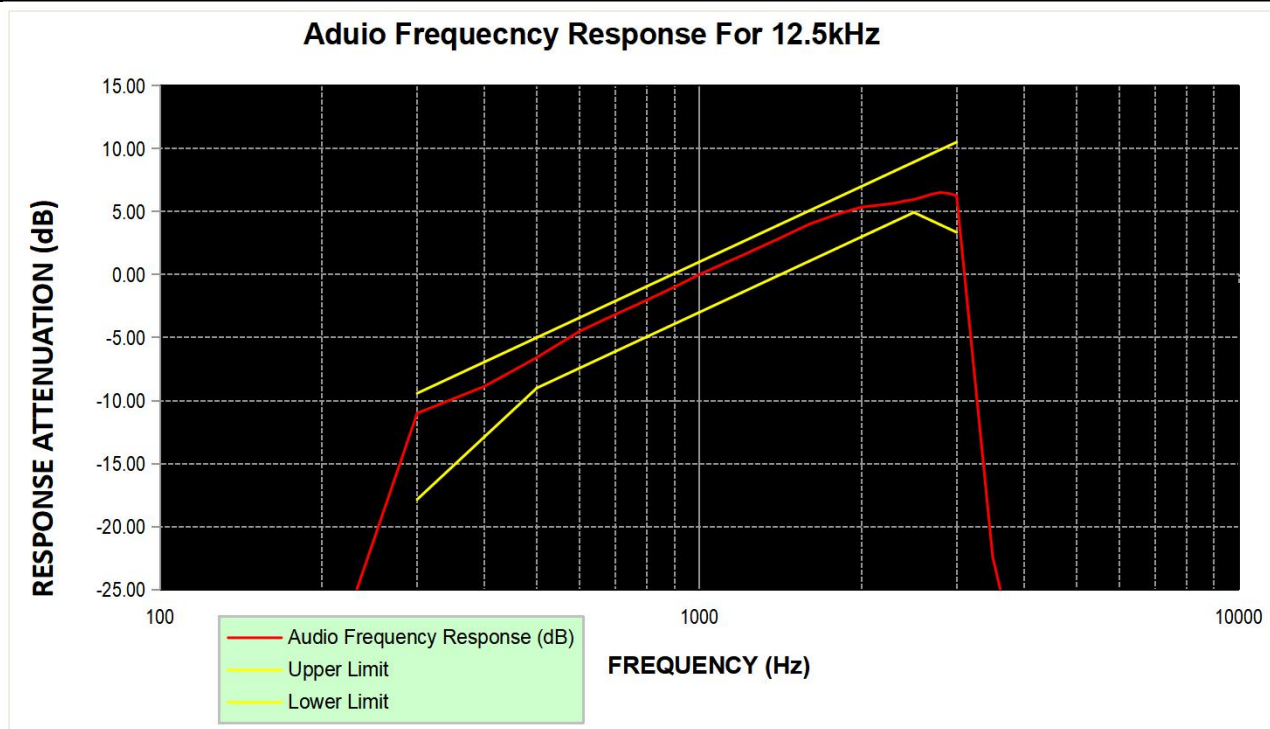


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-33.08			PASS
TX-ANH	FM	CH _{M2}	200	-33.02			PASS
TX-ANH	FM	CH _{M2}	300	-11.00	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.87	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.58	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.50	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.15	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.02	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.99	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	0.00	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.51	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.82	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.00	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.79	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.35	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.45	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.56	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.66	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	5.84	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.95	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	6.16	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	6.38	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	6.51	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	6.44	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.26	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-22.43			PASS
TX-ANH	FM	CH _{M2}	4000	-32.99			PASS
TX-ANH	FM	CH _{M2}	4500	-33.23			PASS
TX-ANH	FM	CH _{M2}	5000	-33.22			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	-0.259	-0.241	-0.258	-0.223	-0.189	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.243	-0.240	-0.265	-0.211	-0.186	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.254	-0.246	-0.245	-0.221	-0.180	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.248	-0.244	-0.244	-0.213	-0.191	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.260	-0.242	-0.241	-0.227	-0.177	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.241	-0.239	-0.241	-0.207	-0.175	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.259	-0.244	-0.259	-0.220	-0.184	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.259	-0.262	-0.245	-0.223	-0.180	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.250	-0.240	-0.246	-0.225	-0.176	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.259	-0.256	-0.272	-0.218	-0.195	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.260	-0.261	-0.266	-0.215	-0.196	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.261	-0.272	-0.254	-0.229	-0.185	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.268	-0.254	-0.271	-0.218	-0.192	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.268	-0.265	-0.252	-0.228	-0.194	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.244	-0.250	-0.248	-0.215	-0.179	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.261	-0.260	-0.261	-0.236	-0.192	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.268	-0.262	-0.272	-0.216	-0.191	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.253	-0.259	-0.270	-0.216	-0.191	±5.0	PASS
TX-ANH	FM	V _N	-30	-0.001	-0.001	-0.050	-0.086	-0.069	±5.0	PASS
TX-ANH	FM	V _N	-20	-0.001	-0.001	-0.048	-0.084	-0.063	±5.0	PASS
TX-ANH	FM	V _N	-10	-0.001	-0.001	-0.050	-0.087	-0.066	±5.0	PASS
TX-ANH	FM	V _N	0	-0.001	-0.001	-0.049	-0.089	-0.065	±5.0	PASS
TX-ANH	FM	V _N	10	-0.001	-0.001	-0.047	-0.090	-0.066	±5.0	PASS
TX-ANH	FM	V _N	20	-0.001	-0.001	-0.046	-0.082	-0.063	±5.0	PASS
TX-ANH	FM	V _N	30	-0.001	-0.001	-0.050	-0.082	-0.069	±5.0	PASS
TX-ANH	FM	V _N	40	-0.001	-0.001	-0.049	-0.084	-0.065	±5.0	PASS
TX-ANH	FM	V _N	50	-0.001	-0.001	-0.050	-0.083	-0.065	±5.0	PASS
TX-ANL	FM	V _N	-30	0.004	-0.012	-0.061	-0.093	-0.081	±5.0	PASS
TX-ANL	FM	V _N	-20	0.004	-0.012	-0.060	-0.099	-0.080	±5.0	PASS
TX-ANL	FM	V _N	-10	0.004	-0.011	-0.060	-0.101	-0.079	±5.0	PASS
TX-ANL	FM	V _N	0	0.004	-0.012	-0.061	-0.098	-0.082	±5.0	PASS
TX-ANL	FM	V _N	10	0.004	-0.012	-0.064	-0.094	-0.084	±5.0	PASS
TX-ANL	FM	V _N	20	0.004	-0.011	-0.059	-0.092	-0.078	±5.0	PASS
TX-ANL	FM	V _N	30	0.004	-0.011	-0.065	-0.101	-0.079	±5.0	PASS
TX-ANL	FM	V _N	40	0.004	-0.011	-0.062	-0.094	-0.082	±5.0	PASS
TX-ANL	FM	V _N	50	0.004	-0.011	-0.063	-0.094	-0.084	±5.0	PASS

Appendix G:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.241	-0.239	-0.241	-0.207	-0.175	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.246	-0.243	-0.242	-0.210	-0.179	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.260	-0.246	-0.254	-0.219	-0.179	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.244	-0.250	-0.248	-0.215	-0.179	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.249	-0.254	-0.248	-0.219	-0.180	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.252	-0.255	-0.260	-0.227	-0.185	±5.0	PASS
TX-ANH	FM	V _N	T _N	-0.001	-0.001	-0.046	-0.082	-0.063	±5.0	PASS
TX-ANH	FM	V _L	T _N	-0.001	-0.001	-0.046	-0.083	-0.063	±5.0	PASS
TX-ANH	FM	V _H	T _N	-0.001	-0.001	-0.048	-0.086	-0.064	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.004	-0.011	-0.059	-0.092	-0.078	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.004	-0.011	-0.060	-0.094	-0.080	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.004	-0.011	-0.061	-0.097	-0.082	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG IFX (17MHz) VIG Bypass TFM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.32 dBm</td><td colspan="2">Carrier Offset -145.65 Hz</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td><td colspan="3"></td></tr><tr><td>28.954 kHz</td><td>-23.579 kHz</td><td>26.266 kHz</td><td>2.9461 kHz</td><td>---</td><td>---</td><td>---</td><td colspan="3"></td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 20.06.2022 16:31:27	Carrier Power 37.32 dBm		Carrier Offset -145.65 Hz								+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD				28.954 kHz	-23.579 kHz	26.266 kHz	2.9461 kHz	---	---	---			
Carrier Power 37.32 dBm		Carrier Offset -145.65 Hz																															
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD																											
28.954 kHz	-23.579 kHz	26.266 kHz	2.9461 kHz	---	---	---																											
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG IFX (17MHz) VIG Bypass TFM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.29 dBm</td><td colspan="2">Carrier Offset -63.28 Hz</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td><td colspan="3"></td></tr><tr><td>24.984 kHz</td><td>-30.825 kHz</td><td>27.905 kHz</td><td>3.0423 kHz</td><td>---</td><td>---</td><td>---</td><td colspan="3"></td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 20.06.2022 16:33:28	Carrier Power 37.29 dBm		Carrier Offset -63.28 Hz								+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD				24.984 kHz	-30.825 kHz	27.905 kHz	3.0423 kHz	---	---	---			
Carrier Power 37.29 dBm		Carrier Offset -63.28 Hz																															
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD																											
24.984 kHz	-30.825 kHz	27.905 kHz	3.0423 kHz	---	---	---																											
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG IFX (17MHz) VIG Bypass TFM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.32 dBm</td><td colspan="2">Carrier Offset -199.27 Hz</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td><td colspan="3"></td></tr><tr><td>27.082 kHz</td><td>-23.604 kHz</td><td>25.343 kHz</td><td>3.1812 kHz</td><td>---</td><td>---</td><td>---</td><td colspan="3"></td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 20.06.2022 16:30:30	Carrier Power 37.32 dBm		Carrier Offset -199.27 Hz								+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD				27.082 kHz	-23.604 kHz	25.343 kHz	3.1812 kHz	---	---	---			
Carrier Power 37.32 dBm		Carrier Offset -199.27 Hz																															
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD																											
27.082 kHz	-23.604 kHz	25.343 kHz	3.1812 kHz	---	---	---																											

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT								
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG JFF(17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 406.1125 MHz 1001 pts 10.0 ms 4 Result Summary Carrier Power 37.29 dBm Carrier Offset -59.59 Hz <table><tr><td>FM</td><td>+Peak 26.683 kHz</td><td>-Peak -29.415 kHz</td><td>+Peak/2 28.049 kHz</td><td>RMS 2.9897 kHz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 20.06.2022 16:32:42 Date: 20 JUN 2022 16:32:43	FM	+Peak 26.683 kHz	-Peak -29.415 kHz	+Peak/2 28.049 kHz	RMS 2.9897 kHz	Mod. Freq.	SINAD	THD
FM	+Peak 26.683 kHz	-Peak -29.415 kHz	+Peak/2 28.049 kHz	RMS 2.9897 kHz	Mod. Freq.	SINAD	THD				

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CHL	
TX-DNH	4FSK	CHM1	
TX-DNH	4FSK	CHM2	

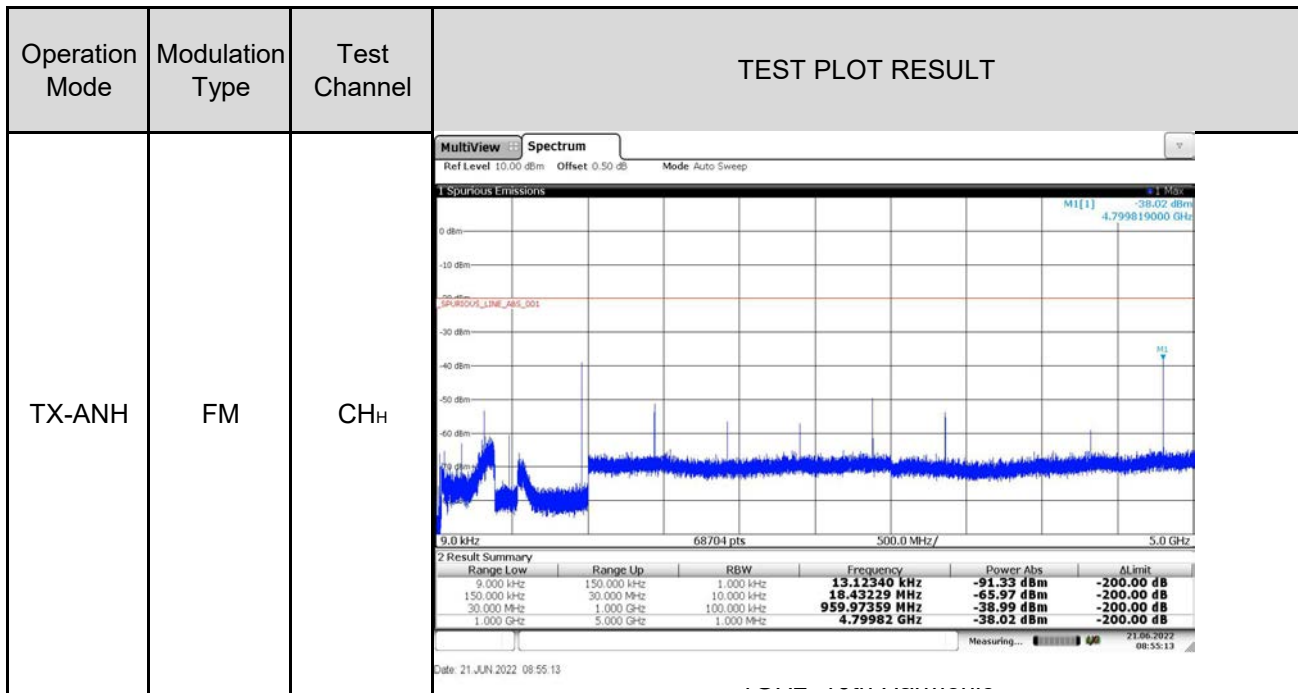
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CH _{M3}	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_001 PASS PASS M1[1] -44.57 dBm 438.009000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>9.90514 kHz</td><td>-90.22 dBm</td><td>-70.22 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>29.68292 MHz</td><td>-75.26 dBm</td><td>-55.26 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>876.01059 MHz</td><td>-44.04 dBm</td><td>-24.04 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.81819 GHz</td><td>-39.75 dBm</td><td>-19.75 dB</td></tr></tbody></table> Date: 21 JUN 2022 08:51:40	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	9.90514 kHz	-90.22 dBm	-70.22 dB	150.000 kHz	30.000 MHz	10.000 kHz	29.68292 MHz	-75.26 dBm	-55.26 dB	30.000 MHz	1.000 GHz	100.000 kHz	876.01059 MHz	-44.04 dBm	-24.04 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.81819 GHz	-39.75 dBm	-19.75 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	9.90514 kHz	-90.22 dBm	-70.22 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	29.68292 MHz	-75.26 dBm	-55.26 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	876.01059 MHz	-44.04 dBm	-24.04 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	4.81819 GHz	-39.75 dBm	-19.75 dB																												
TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_001 PASS PASS M1[1] -36.93 dBm 4.799819000 GHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>14.12910 kHz</td><td>-89.11 dBm</td><td>-69.11 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>24.39333 MHz</td><td>-70.76 dBm</td><td>-50.76 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>959.94328 MHz</td><td>-38.90 dBm</td><td>-18.90 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.79982 GHz</td><td>-36.93 dBm</td><td>-16.93 dB</td></tr></tbody></table> Date: 21 JUN 2022 08:52:25	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	14.12910 kHz	-89.11 dBm	-69.11 dB	150.000 kHz	30.000 MHz	10.000 kHz	24.39333 MHz	-70.76 dBm	-50.76 dB	30.000 MHz	1.000 GHz	100.000 kHz	959.94328 MHz	-38.90 dBm	-18.90 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.79982 GHz	-36.93 dBm	-16.93 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	14.12910 kHz	-89.11 dBm	-69.11 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	24.39333 MHz	-70.76 dBm	-50.76 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	959.94328 MHz	-38.90 dBm	-18.90 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	4.79982 GHz	-36.93 dBm	-16.93 dB																												
TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_001 PASS PASS M1[1] -38.68 dBm 800.020000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.78959 kHz</td><td>-89.44 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>18.67849 MHz</td><td>-50.74 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-17.72 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.20006 GHz</td><td>-45.22 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 21 JUN 2022 08:53:06	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-89.44 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	18.67849 MHz	-50.74 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-17.72 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.20006 GHz	-45.22 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-89.44 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	18.67849 MHz	-50.74 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-17.72 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	1.20006 GHz	-45.22 dBm	-200.00 dB																												

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-ANH	FM	CH _{M1}	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -41.94 dBm 2.029905000 GHz SPURIOUS_LINE_ABS_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>9.90514 kHz</td><td>-90.45 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-80.09 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>405.96934 MHz</td><td>-24.85 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>2.02991 GHz</td><td>-41.94 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 21 JUN 2022 08:53:39	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	9.90514 kHz	-90.45 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-80.09 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-24.85 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	2.02991 GHz	-41.94 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	9.90514 kHz	-90.45 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-80.09 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-24.85 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	2.02991 GHz	-41.94 dBm	-200.00 dB																												
TX-ANH	FM	CH _{M2}	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -41.45 dBm 2.030530000 GHz SPURIOUS_LINE_ABS_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>96.59700 kHz</td><td>-91.71 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-80.92 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>406.09059 MHz</td><td>-24.97 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>2.03053 GHz</td><td>-41.45 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 21 JUN 2022 08:54:10	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	96.59700 kHz	-91.71 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-80.92 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-24.97 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	2.03053 GHz	-41.45 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	96.59700 kHz	-91.71 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-80.92 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-24.97 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	2.03053 GHz	-41.45 dBm	-200.00 dB																												
TX-ANH	FM	CH _{M3}	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -44.17 dBm 876.011000 MHz SPURIOUS_LINE_ABS_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>104.24037 kHz</td><td>-86.96 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>18.43229 MHz</td><td>-68.45 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>876.01059 MHz</td><td>-44.17 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.31405 GHz</td><td>-47.12 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 21 JUN 2022 08:54:35	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	104.24037 kHz	-86.96 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	18.43229 MHz	-68.45 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	876.01059 MHz	-44.17 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.31405 GHz	-47.12 dBm	-200.00 dB
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Appendix I:Spurious Emission On Antenna Port



----End of Report----